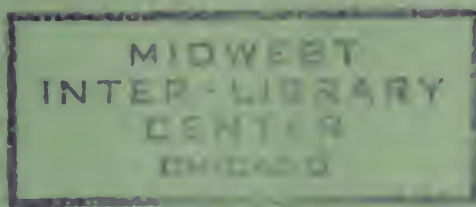


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BUREAU OF MINES

MUSEUM BUILDING

14TH AVENUE AND SHERMAN STREET

DENVER 2, COLORADO

REPORT

FOR THE YEAR 1952

WALTER E. SCOTT, JR.

COMMISSIONER OF MINES

PUBLICATION APPROVED BY
JAMES A. NOONAN, STATE CONTROLLER



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STATE OF COLORADO
BUREAU OF MINES

Museum Building
Denver

June 15, 1953

Honorable Dan Thornton
Governor of Colorado
State Capitol Building
Denver 2, Colorado

Dear Governor Thornton:

In compliance with the requirements of the law,
Chapter 110, Section 285 of the Colorado Statutes
Annotated 1935, I have the honor to transmit here-
with the Report of the State Bureau of Mines for
the year 1952.

Respectfully Submitted,

WALTER E. SCOTT, JR.
Commissioner of Mines

PERSONNEL OF
THE COLORADO BUREAU OF MINES
1952

WALTER E. SCOTT, JR.	Commissioner of Mines	Central City
WM. HARVEY CHAPMAN	Inspector, District No. 1	Wheatridge
FRED E. THEOBALD	Inspector, District No. 2	Canon City
JOHN W. DOYLE	Inspector, District No. 3	Leadville
G. A. FRANZ, JR.	Inspector, District No. 4	Ouray
RICHARD C. GROOM	Associate Mineral Curator	Denver
KAYE M. B. SULLIVAN	Secretary	Denver
JOSEPHINE M. IPSEN	Statistician	Denver
DONNA L. SAMUELSON	Receptionist	Denver



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DISTRICTS OF INSPECTION

- DISTRICT NO. 1 - Adams, Arapahoe, Boulder, Clear Creek, Denver, Gilpin, Grand, Jackson, Jefferson, Larimer, Logan, Moffat, Morgan, Phillips, Routt, Sedgwick, Summit, Washington, Weld and Yuma counties.
- Wm. Harvey Chapman
12060 West 52nd Avenue, Wheatridge Arvada 0194R5
- DISTRICT NO. 2 - Baca, Bent, Cheyenne, Crowley, Custer, Douglas, Elbert, El Paso, Fremont, Huerfano, Kiowa, Kit Carson, Las Animas, Lincoln, Otero, Park, Prowers, Pueblo and Teller counties.
- Fred E. Theobald
319 North 12th Street, Canon City 528-J
- DISTRICT NO. 3 - Alamosa, Chaffee, Conejos, Costilla, Eagle, Garfield, Lake, Mineral, Pitkin, Rio Blanco and Rio Grande counties, and that portion of Saguache county lying south and east of the main Continental Divide, and the extreme northwest part of Gunnison county, lying north of the 39th degree of latitude.
- John Wm. Doyle
414 West 7th Street, Leadville Leadville 96
- DISTRICT NO. 4 - Archuleta, Delta, Dolores, Hinsdale, La Plata, Mesa, Montezuma, Montrose, Ouray, San Juan and San Miguel counties and all of Gunnison county except the extreme northwest corner lying north of the 39th degree of latitude, also that part of Saguache county lying north and west of the main Continental Divide.
- G. A. Franz, Jr.
Box 507, Ouray Ouray 61

COMMISSIONERS OF MINES

Harry A. Lee.....	May 11, 1895 - May 10, 1903
E. L. White.....	May 10, 1903 - May 10, 1907
T. J. Dalzell.....	May 10, 1907 - May 10, 1911
T. R. Henahen.....	May 10, 1911 - May 10, 1915
Fred Carroll.....	May 10, 1915 - May 10, 1919
Horace F. Lunt.....	June 1, 1919 - June 1, 1923
John T. Joyce.....	June 1, 1923 - June 12, 1939
Edward P. Arthur.....	June 12, 1939 - August 26, 1943
Fred Jones.....	September 27, 1943 - April 25, 1950
Walter E. Scott, Jr.	May 3, 1950

PUBLICATIONS OF THE BUREAU OF MINES

BULLETINS

Bulletin No. 1, Recommendations for Safety Appliances in Mining,
Harry A. Lee, Commissioner of Mines, 1896.

Bulletin No. 2, Precious Metal Production for the Year 1898,
Harry A. Lee, Commissioner of Mines, 1899.

Bulletin No. 3, Mining Laws, Relative to Bureau of Mines Precious
Metal Production, Harry A. Lee, Commissioner of Mines, 1899.

Bulletin No. 4, Precious Metal Production, Harry A. Lee, Commissioner
of Mines, 1901.

Bulletin No. 5, Precious Metal Production, Harry A. Lee, Commissioner
of Mines, 1902.

Bulletin No. 6, Regulations Relative to the Construction, Equipment
and Operation of Metalliferous Mines, Mills and Metallurgical
Plants, Recommendations and Mineral Production for 1905, E. L.
White, Commissioner of Mines, 1906.

Bulletin No. 7, Federal and State Laws Relating to Mining, Fred Carroll,
Commissioner of Mines, 1916.

Supplement to Bulletin No. 7, Mining Laws Enacted by the Twenty-first
General Assembly, Fred Carroll, Commissioner of Mines, 1917.

Supplement No. 2 to Bulletin No. 7, Amendments to the Mining Laws
Enacted by the Twenty-second General Assembly, Horace F. Lunt,
Commissioner of Mines, 1919.

Supplement No. 3 to Bulletin No. 7, Amendments to Laws Relating to
Mining Enacted by the Twenty-third General Assembly, Horace F.
Lunt, Commissioner of Mines, 1921.

Supplement No. 4 to Bulletin No. 7, Amendments to Laws Relating to Mining
Enacted by the Twenty-fourth General Assembly, Horace F. Lunt,
Commissioner of Mines, 1923.

Bulletin No. 8, The Oil Shales of Northwestern Colorado, Horace F. Lunt, Commissioner of Mines, 1919.

Bulletin No. 9, Mine Safety Standards, Horace F. Lunt, Commissioner of Mines, 1920. Out of print, now embraced in Bulletin No. 11.

Bulletin No. 11, Federal and State Laws Relating to Mining, John T. Joyce, Commissioner of Mines, 1931.

Bulletin No. 12, Mining Laws of Colorado, Edward P. Arthur, Commissioner of Mines, 1942.

Bulletin No. 13, Mining Laws of Colorado, Fred Jones, Commissioner of Mines, 1946.

Bulletin No. 14, Mining Laws of Colorado, Fred Jones, Commissioner of Mines, 1949.

REPORTS

- . Report of Bureau of Mines, Colorado, from its establishment in May, 1895, to November 30, 1896, Harry A. Lee, Commissioner of Mines, 1896.
- Report for the Year, 1897, Harry A. Lee, Commissioner of Mines, 1898.
- Report for the Year, 1898, Harry A. Lee, Commissioner of Mines, 1899.
- Biennial Report for the Years 1899 - 1900, Harry A. Lee, Commissioner of Mines, 1900.
- Biennial Report for the Years 1901 - 1902, Harry A. Lee, Commissioner of Mines, 1903.
- Biennial Report for the Years 1903 - 1904, E. L. White, Commissioner of Mines, 1905.
- Biennial Report for the Years 1905 - 1906, E. L. White, Commissioner of Mines, 1907.
- Biennial Report for the Years 1907 - 1908, T. J. Dalzell, Commissioner of Mines, 1909.
- Biennial Report for the Years 1909 - 1910, T. J. Dalzell, Commissioner of Mines, 1911.
- Biennial Report for the Years 1911 - 1912, T. R. Henahan, Commissioner of Mines, 1913.
- Biennial Report for the Years 1913 - 1914, T. R. Henahan, Commissioner of Mines, 1914.
- Biennial Report for the Years 1915 - 1916, Fred Carroll, Commissioner of Mines, 1916.
- Biennial Report for the Years 1917 - 1918, Fred Carroll, Commissioner of Mines, 1919.
- Annual Report for the Year 1919, Horace F. Lunt, Commissioner of Mines, 1920.

Annual Report for the Year 1920, Horace F. Lunt, Commissioner of Mines, 1921.

Annual Report for the Year 1921, Horace F. Lunt, Commissioner of Mines, 1922.

Annual Report for the Year 1922, Horace F. Lunt, Commissioner of Mines, 1923.

Annual Report for the Year 1923, John T. Joyce, Commissioner of Mines, 1924.

Annual Report for the Year 1924, John T. Joyce, Commissioner of Mines, 1925.

Annual Report for the Year 1925 was fully prepared but because of lack of funds was not printed. The manuscript is on file in the office of the State Bureau of Mines.

Annual Report for the Year 1926, John T. Joyce, Commissioner of Mines, 1927.

Annual Report for the Year 1927, John T. Joyce, Commissioner of Mines, 1928.

Annual Report for the Year 1928, John T. Joyce, Commissioner of Mines, 1929.

Annual Report for the Year 1929, John T. Joyce, Commissioner of Mines, 1930.

Annual Report for the Year 1930, John T. Joyce, Commissioner of Mines, 1931.

Annual Report for the Year 1931, John T. Joyce, Commissioner of Mines, 1932.

Annual Report for the Year 1932, John T. Joyce, Commissioner of Mines, 1933.

Annual Report for the Year 1933, John T. Joyce, Commissioner of Mines, 1934.

Annual Report for the Year 1934, John T. Joyce, Commissioner of Mines, 1935.

Annual Report for the Year 1935, John T. Joyce, Commissioner of Mines, 1936.

Owing to lack of funds the 1936 Annual Report of the State Bureau of Mines was not published.

Annual Report for the Year 1937, John T. Joyce, Commissioner of Mines, 1938.

Owing to lack of funds the 1938 Annual Report of the State Bureau of Mines was not published.

Annual Report for the Year 1939, Edward P. Arthur, Commissioner of Mines, 1940.

Annual Report for the Year 1941, Edward P. Arthur, Commissioner of Mines, 1942.

Annual Report for the Years 1942 and 1943, Fred Jones, Commissioner of Mines, 1944.

List of Mines for the Year 1944, Fred Jones, Commissioner of Mines, 1945.

List of Mines for the Year 1945, Fred Jones, Commissioner of Mines, 1946.

Annual Report for the Year 1946, Fred Jones, Commissioner of Mines, 1947.

Annual Report for the Year 1947, Fred Jones, Commissioner of Mines, 1948.

Annual Report for 1948 was not published.

Annual Report for the Year 1949, Walter E. Scott, Jr., Commissioner of Mines, 1950.

Annual Report for the Years 1950 and 1951, Walter E. Scott, Jr., Commissioner of Mines, 1952.

FORWORD

The Bureau of Mines of the State of Colorado was established by an Act of the Tenth General Assembly, approved March 30, 1895. This Act repealed the previous Act creating an "Inspector of Metalliferous Mines" which was passed in 1889. The Bureau of Mines law established the office of Commissioner of Mines, authorized by the Colorado State Constitution in 1876 (Article 16, Section 1) and charged him, among other things, with the supervision of metal mine inspection and the enforcement of laws relating to safety and health in metal mines. Subsequently, this Act was broadened to include "any ore mill, sampling works, smelter, metallurgical plant, rock quarry, clay pit, railroad tunnel, rock excavation or mine of whatever kind or character, except coal mines".

The Thirty-sixth General Assembly in 1947 passed an Act requiring the Commissioner of Mines to conduct inspections of all oil wells and all property and equipment appurtenant immediately and used in connection with producing oil wells and the enforcement of laws relating to the health, safety and welfare of any person employed at such wells.

The Commissioner of Mines was also charged "as he has opportunity and means" to collect mineral specimens and preserve the same in his office; to collect books relating to mining and geology; to collect and preserve data regarding mining costs, milling, metallurgy, geology of mineral deposits of all kinds; to distribute reliable information concerning all metal and non-metallic resources of the State; to investigate reports of all dangerous conditions and accidents and to properly record statistics of all accidents.

The first and most important function of the Colorado Bureau of Mines is inspection, to see that safe practices are used and to protect the health, safety and welfare of the men employed in the industries inspected by the Bureau.

The second important function of the Colorado Bureau of Mines is to disseminate information of a reliable nature to people making inquiries about Colorado's mineral industry.

Section 285, Volume 4, Chapter 110, 1935 Colorado Statutes Annotated, states "It shall be the duty of the Commissioner of Mines to prepare an Annual Report which shall contain a statement of the work accomplished by the Bureau of Mines and such statistical information as he may deem of value to the industry and general public".

Every effort has been made to assure accuracy and completeness of the data used in this Report but changes, due to removal and altered mining conditions, are constantly taking place, which, undoubtedly, have caused omissions or mistakes to appear in this publication. It will be most appreciated if any additions, corrections and errors are brought to our attention.

Production figures are as accurate as we have been able to get them, most have been checked and rechecked and the published figures agree with our office records. The 1952 Report is the first one in which much effort has been made to gather production figures on all minerals produced in Colorado, many of which are not published in any other report of general distribution.

Beginning with January 1952, a new system of reporting mine inspections was started. When any mine, quarry, mill, etc., is inspected, there is a complete Inspection Report made out, a copy of which is left with the operator and the original coming to this office to file. When there are unsafe conditions noted by the inspector, a written recommendation is made out and the original given to the operator and a copy coming to this office. Complete written inspection records, along with recommendations, are the only ones filed in this office. While the inspectors still make many extra visits to mines to see that recommendations are carried out and for other purposes, nothing is counted except the actual complete reports.

During the year all of the inspectors have taken mining rescue courses, public health courses concerning dust, gas, ventilation, etc., and first aid courses. This has materially helped them with their problems and these courses, along with the simplified inspection forms, have enabled the inspectors to make 867 inspections during the year, or nearly one for each working day. However, as it works out, in some areas an inspector can visit several small mines in a day, and there are some mines which take two or three days to inspect.

Beginning January 1952, the manner in which the accidents of mines, etc., were recorded was completely changed and the results of this new system show in this Report. This also is the first time that it has been possible to show, within a reasonable degree of accuracy, the frequency rate of accidents and the severity rate.

The mineral collection of the Colorado Bureau of Mines continues to be of much interest to engineers, geologists, miners and people generally interested in the mining industry. In addition, a great many thousands of tourists have visited the mineral collection and proclaimed it one of the best they have seen. Two visiting foreign delegations have said this collection of minerals was among the best that they had seen in all of their travels which included most all of Europe and the United States. Approximately one hundred mineral specimens were added to the collection during 1952. All of these were unusually good pieces and equal to the quality of material heretofore put in exhibit cases.

During the year 1952 the Associate Curator of the mineral collection mailed out 147 boxes to people requesting specimens of Colorado minerals. Many of these boxes went to school children, and many of them to school teachers or to schools for use in their science department. Each box sent out contains a specimen of all the important metals and non-metallic minerals being produced in Colorado.

The office of the Colorado Bureau of Mines has a vast store of information and reference material, including almost complete files of United States Bureau of Mines Bulletins and United States Geological Survey Bulletins, Monographs, Professional

Papers and Mineral Resources of the United States, and Colorado Geological Survey Bulletins. In addition, there is filed much general information concerning the history of Colorado mining and mining areas. In our files are reports on some 15,000 Colorado mines. In the available material there is a great deal of historical, as well as much up-to-date, information. During 1952 650 letters of information about mines, mining areas, geology of the State, etc., etc., were mailed out.

This Report would not be possible nor would much of the work done by the Colorado Bureau of Mines be possible without complete cooperation and generous help given by other State and Federal agencies. The list of persons to whom we are most grateful has become so long that it would require too much space to mention each one individually.

The Colorado Industrial Commission, State Compensation Insurance Fund, Colorado Department of Public Health, Colorado School of Mines are among the State agencies that have been of so much help to us.

The United States Bureau of Mines, United States Public Health Service, United States Geological Survey, all have given time and information and publications to us.

Most particularly are we grateful to the United States Bureau of Mines for the first aid training courses that they have given and to their Economic Division for metal production figures.

For their excellent work in the field, each of the inspectors are to be congratulated. They have, at times, worked long hours under trying conditions and, at all times, have been cooperative and loyal.

The compilation, preparation and final copy of this report is entirely the work of the office staff and they, too, are to be congratulated for a job well done.

MINING IN 1952

During 1952 the mine production of gold, silver, copper, lead and zinc did not vary materially from 1951 in production but declined considerably in dollar value owing to the drop in prices of lead and zinc. The loss in production value of these three metals amounted to \$2,934,308.00. The increase in the production of molybdenum more than made up for the loss of these metals. Towards the end of the year a few small producers were forced to shut down owing to the low prices of lead and zinc, but most of the larger mines continued their rate of production until the end of the year.

The principal producing districts of the State, in order of output, based on total value of the five metals were -

1. Red Cliff - Battle Mountain
2. Upper San Miguel
3. Leadville
4. Silverton Area
5. Rico
6. Cripple Creek District
7. Creede
8. Ouray
9. Whitepine

The largest operation which closed owing to low lead and zinc prices was the Akron-Erie mines of the Callahan Zinc-Lead Company at Whitepine, which went on an exploration - development basis November third.

Hinsdale county, for the first time in several years, produced considerable lead, silver and zinc, as a result of the reopening of the old Ute and Ulay mine.

Cripple Creek again became the first producer of gold in Colorado, as the new mill of the Golden Cycle Corporation operated for the full calendar year. Owing to a shortage of mine labor and some mechanical adjustments in the mill, ore milled was short of the milling capacity.

The large gold dredge of the South Platte Dredging Company at Fairplay closed down indefinitely the early part of January 1952.

Feldspar production in Colorado was lower in 1952 than in 1951. This probably was caused by the fact that the Parkdale mill in Fremont county closed down early in the year. Fluorspar produced increased a large amount due to the Northgate mine of Ozark-Mahoning at Cowdrey, Colorado, and the Reynolds mine at Poncha Springs in Chaffee county, coming into production.

Clay production was lower, at least partly caused by a fire which destroyed the Laclede - Christy brick plant in Canon City, closing down all their quarries for the entire year of 1952.

Beryllium production decreased by about two-thirds and probably was caused by misinterpretation of government orders and directives. Towards the end of the year production of this metal was beginning to increase.

At the end of 1952 there were 367 actively operating mines in the State, an increase of 37 over the previous year. Total men employed in the State in 1952 in projects inspected by this department increased by approximately 650 men.

The greatest single advance in metal production for the year was made in uranium production. The production for 1952 was considerably higher than the 1951 production and, at the rate of increase, the production for 1953 should reach an amount which will be equal to or greater than the production of any single metal heretofore produced in Colorado in a single year.

The three principal producers of gold are the Golden Cycle Corporation at Cripple Creek, the Idarado mine in San Miguel county and the Resurrection Group at Leadville. Idarado Mining Company was the principal producer of silver, with the Eagle mine of the Empire Zinc Division at Gilman second, and the Resurrection Group at Leadville third. The only substantial producer of copper was the Idarado Mining Company in San Miguel county. The Resurrection Group led in the production of lead and the Idarado mine second, and the Eagle mine of the Empire Zinc Division third. In the production of zinc the Eagle mine again was the largest producer, with the Resurrection Group at Leadville next, and the Idarado Mining Company in San Miguel county was third.

The Defense Minerals Exploration Administration assisted in financing a large number of mines in Colorado and these projects covered copper, lead, zinc, tungsten, uranium, fluorspar and beryl. At the end of the year there were still in force approximately 25 projects involving a total of approximately \$1,200,000.00 in combined government and private capital.

Adams County

Several sluices operated by Kerkling and Slensker recovered gold as a by-product from the washing plants of several sand and gravel operations on gravel bars of Clear Creek. The Cooley Gravel Company also recovered some gold as a by-product from their floating sand and gravel washing plant.

Boulder County

Boulder county's production of silver, the largest since 1917, came mostly from the Consolidated Caribou Silver Mines, Incorporated. In addition to the rich silver, the concentrate produced by this company also contained lead and gold. Some crude silver ore was shipped from the Cash mine.

The Ozark-Mahoning and General Chemical Companies continued to ship lead, silver, gold, copper concentrates recovered as a by-product in milling of their fluorspar. The Burlington mine of the General Chemical Company had the largest production of all hard rock mines in Boulder county in 1952. The heavy demand for fluorspar resulted in the highest rate of production since the mine was opened. Considerable improvement of the physical plants of both the mine and the mill were made by General Chemical during the year. On September 7th a lightning-started fire destroyed all of the buildings at the Katy mine of the Boulder Tungsten Mines, Incorporated. New cinder block buildings with change room and office were built and new equipment installed and the mine resumed operation October 15th under the management of George Teal.

A great many small tungsten mines started operation during the year, among those being the Vasco Nos. 2 and 5, the Clyde mine, the National tunnel of the Slide mine, Spring Gulch. During the first few months of 1952 the Boulder Tungsten mill on Sugar Loaf was remodeled to take care of ore from its own properties and to fill the need for a custom plant to process ores from other operators. The mill resumed operations in April and started to receive its first customer in June. Several carloads of concentrates were shipped to the mill.

The Vanadium Corporation of America, under the management of D. E. Harrison, reopened some of its mines and put the Wolfstongue mill at Nederland in operation. However, the mill was partially destroyed by fire and the rebuilding was not completed by the end of the year. In the meantime, the company decided to lease most of its tungsten mines, and the Conger, which is considered one of the largest mines in the county, was leased to Joseph Smith late in the year. Pandora Metals, operating the Comstock mine in the Caribou district, made plans to sink its mine to an additional depth. This company also produced peat from a bog near the mine. The Hoosier mine was probably the largest producer of tungsten in 1952.

Chaffee County

The Mary Murphy mine at St. Elmo was reopened by S. E. and W. E. Burleson and some zinc, lead, silver, gold ore was shipped from there to the smelters at Leadville. A small amount of gold ore was shipped from the Golden Wonder claim in the Turret district. The mine and mill of the Reynolds Aluminum Company got into operation during the year and should, before long, become a substantial producer of fluorspar. Some ore was produced by the General Chemical Division from their mine in Brown Canyon in Salida and shipped by rail to the Valmont mill near Boulder.

Considerable tonnage of limestone each year is shipped from the Monarch quarry to the Colorado Fuel and Iron plant at Pueblo. Feldspar produced locally and some from adjoining counties is treated at the Western Feldspar Mill.

Clear Creek County

Mining in Clear Creek county was hard hit by the drop in prices of lead and zinc as most of the operating properties were silver, lead, zinc mines. The Terrible-Dunderberg mines discontinued all operations in June but the Mendota Frostburg and the Smuggler mines continued to produce, even with the lower metal prices. In July, the Lupton Mining Company resumed production at its Grizzly mine and the ore came from the lower levels opened by the new 1300 foot San Juan cross cut and a raise connecting to the upper levels was completed. Ore production had been suspended from 1949, during the time this development work was in progress. The Montana Mining and Development Company milled dump ore from their Lamartine mine on Trail Creek. The Dixie mine on Ute Creek produced gold ore which was treated in their own mill east of Idaho Springs.

There were several small producers in Clear Creek county which included the Brighton, Crazy Girl, Kitty Clyde, Lake, Nabob, Windy Point and others. The Mattie-Newton-King Solomon mines of the Front Range Mines, Incorporated, were down most of the year, as was their 200-ton mill at Dumont. Low metal prices made operations at these mines and mill unprofitable. The Silver Spruce Milling Company operated its selective flotation mill at Idaho Springs during most of the year on custom ore principally from Silver Plume.

Conejos County

A small lot of silver ore was shipped from the Chari Lee claim in the Stunner district.

Costilla County

The production of scoria used in the manufacture of building blocks was the only mining in Costilla county during the year.

Custer County

Ore was shipped to custom plants at Leadville from the Defender, Navajo and Revely properties. Custer county continues to be the largest producer of perlite in the State.

Delta County

The Atlas Mining and Manufacturing Company operated the Doty mine twelve miles east of Delta for a short time and produced low grade sulphur as a soil conditioner under the trade name "Vita-min-el".

Dolores County

The Rico Argentine Mining Company operated its group of mines and flotation mill at Rico continuously in 1952. Their output of lead, silver, zinc concentrates was higher than in 1951. The Knickerbocker Mining Company shipped several hundred tons of ore from the Union-Carbonate property.

Douglas County

John Fox, contracting on the Helmer land some nineteen miles northwest of Littleton, produced fire clay from an underground mine, and limestone from an open quarry. The Robinson Brick and Tile Company produced fire clay from the Hogback pit and quarry near Waterton, and Stroud Whisenhunt produced plastic clay near Castle Rock.

Eagle County

Eagle county again ranked first among Colorado counties in zinc production and in total value of output of gold, silver, copper, lead and zinc. This production came from the Eagle mine of the New Jersey Zinc Company, Empire Zinc Division, at Gilman. The zinc, lead ore is concentrated underground by flotation, with a mill of 1200-tons daily capacity. The iron, copper, silver, gold ore produced by the Eagle mine is shipped crude to the smelters.

El Paso County

The Golden Cycle Company produced considerable limestone from the Lennox-Breed quarry, which was crushed at the Pike View lime plant. Part of the lime rock was used as

aggregate and road gravel and some went into finished lime products. The Little Fountain Creek quarry also produced crushed rock, and clay came from the Hecla open pit.

Fremont County

The Poston Mining Company shipped some zinc ore from the Monarch-Galena mine in the Cotopaxi district. Early in the year the brick plant of the Laclede - Christy Company at Canon City was destroyed by fire and was down the balance of the year. With the plant closed many of their clay properties were idle which caused a large drop in the county's clay production. The Dolomite quarry near Canon City, of the Colorado Fuel and Iron Corporation, and the Sturbaum quarry at Canon City, shipped dolomite and ganister to the Minnequa plant of the Colorado Fuel and Iron Corporation at Pueblo throughout most of the year. Colonna and Company, in its plant at Canon City, produced a variety of marble chips for terrazzo decorative flooring. Cowan Brothers, in their quarry near Canon City, produced some very good travertine which, when polished, is one of the most attractive building marbles. The Parkdale mill of the Consolidated Feldspar Corporation closed down early in the year, causing a considerable drop in the production of feldspar.

Garfield County

Limestone production in Garfield county increased slightly in 1952 over 1951. Limestone came from the Glenwood Springs quarry of the Frank H. Norberg Company. The Rifle mine was leased to C. C. Sterns during the year and the Rifle mill kept busy on ore from this property and other properties in Montrose and Mesa counties.

Gilpin County

Small tonnages of gold, silver, lead ore were shipped from the Mackey mine, and some placer gold was recovered along North Clear Creek. The United Mining and Leasing Corporation, at Central City, continued to work on a lead, zinc exploration project at the Gilpin - Eureka - Essex mines under a Defense Minerals contract. Ore was found and plans are being made to build a mill for the property as soon as the weather will permit construction. The Realty Company, on an uranium exploration loan, did considerable work at the Calhoun mine in Leavenworth Gulch. Near the Calhoun mine are the Kirk and Wood mine which produced very high grade pitchblende in 1910 and 1911. Considerable prospecting for pitchblende has been going on in the county and it is expected that, with the coming good weather, several other mines will be started in the hope of finding pitchblende deposits.

Gunnison County

The Callahan Lead-Zinc Company, operating the Akron-Erie group at Whitepine, and the principal producer of metals in Gunnison county in the past ten years, closed its properties on November 3rd due to the low prices of lead and zinc. Near Crested Butte the Slate River Mining Company operated the Micawber mine, and the Crested Butte Mining and Milling Corporation, from their Daisy mine, shipped substantial tonnages of zinc, lead, silver ore. Some gold, lead, silver ore was shipped by

Donald B. Knight from the Domingo mine, and a small shipment of lead, silver ore was made from the Star mine in the Tin Cup district. The Kanarado Mining and Development Company which acquired the old Carter mine and others near Ohio City, produced some gold ore during the year which was treated in their own amalgamation concentration mill. During the year the Keystone mine of the American Smelting and Refining Company continued on development. Some 3,500 feet of drifts and approximately 1,000 feet of raises were completed in 1952. The site was prepared for a mill which is to be constructed this coming spring. Electric power for this new mill will come from the Gunnison county REA. The REA will install the facilities which will cost approximately \$120,000.00, while the Keystone mine will put up a deposit of \$50,000.00 when construction is ready to begin, and guarantee a bill of \$2,000.00 per month when the mill is operating, and \$850.00 per month during such times as the mill might be closed down. The Colorado Standard Lead-Zinc Company completed the reconditioning of the Ute-Ulay mill early in 1952 and operated the mine during most of the year. However, near the end of 1952, the Colorado Standard Lead-Zinc Company granted a lease to the Idarado Mining Company on its mines and its mill. Idarado plans a large exploration program to further explore the Ute and Ulay veins. Some ore was shipped from the Fanny Fern, Parkview, Yankee Boy and Yellow Medicine mines. The D & M Lead Mining Company shipped some custom lots of ore from the View of the Park mine to the flotation mill of the Colorado Lead-Zinc mine.

Jackson County

The Northgate mill of the Ozark-Mahoning Mining Company was placed in operation early in the year and since that time has been a consistent producer of fluorspar and greatly increased Colorado feldspar production.

Jefferson County

W. B. Kerkling continued to operate his gravel washing plant and recovered some placer gold as a by-product. Clay production in Jefferson county remained approximately the same as during the year 1951. There was a slight increase in crushed rock which was being shipped out as rip rap for dams and canals in eastern Colorado and Nebraska. Feldspar and beryl was produced by Biggers Mica mine.

Lake County

The Resurrection Mining Company, working through the Yak Tunnel, continued to produce the bulk of the county's output in gold, silver, copper, lead and zinc. During the year the Resurrection Mining Company took an option on the Ibez property and considerable exploration was being done there. The sinking of the Irene shaft by the American Smelting and Refining Company in this area was started September 1952, after hoist house, headframe and other necessary installations were made. When this shaft is connected with the other workings, it will extend from the surface to a depth of 1,650 feet, the shaft eventually will probably go to at least the 1,800 foot level. Newmont Exploration, Limited, a subsidiary of Newmont Mining Corporation, carried on an extensive program of surface drilling during the fall and summer months. Drilling crews worked under contract to the Resurrection Mining Company and had some five drilling machines operating on a 24-hour basis. The object of the drilling was prospecting for the extension of known ore bodies. This work had to be discontinued

during the winter but will be started as soon as weather will permit, in the spring of 1953. Work by the United States Bureau of Mines on extending the Leadville dredge tunnel was completed in February 1952. Total distance of the tunnel was 11,299 feet from the portal and, in addition to the mine tunnel, the Bureau drove 291 feet on a downtown lateral, 191 feet on a lateral connecting the tunnel with the Hayden shaft and 60 feet on the Robert Emmet level. The flow of water from the tunnel is approximately 2,700 gallons.

The Resurrection mill has a separate unit for the treatment of custom ore which was purchased from mines in Lake, Summit, Park, Pitkin, Clear Creek, Chaffee, Fremont, Saguache and Custer counties. The Arkansas Valley smelter of the American Smelting and Refining Company purchased lead, lead-copper-gold-silver and gold-silver ores and concentrates from the operators in the various Colorado mining districts and concentrate residues from zinc smelters and other material from outside the State. However, receipts of material purchased during 1952 were approximately 35,000 tons less than in 1951. In addition to its smelter operation, the American Smelting and Refining Company carries on a rather extensive development campaign in the Ibex-Sunday area and shipped considerable ore to different properties under its control.

La Plata County

Small lots of ore were shipped to the smelter from the Bessie G and Lucky Moon properties. The Vanadium Corporation of America considerably expanded the capacity of its plant in Durango and, in addition, added equipment to handle some of the so-called special ores from the uranium areas.

Larimer County

The principal production in Larimer county is limestone for the Portland Cement plant at Boettcher and gypsum for the United States Gypsum plant at La Porte. A small amount of tungsten was produced by the Buckhorn Mining Company from its Buckhorn and Lookout mines, northwest of Fort Collins.

Las Animas County

Clay was produced by the Trinidad Brick and Tile Company from its New Mary quarry. Some alabaster was produced in Las Animas county by the Red Rock quarry. The alabaster finishing plant is located in Trinidad, and the production comparatively small.

Mesa County

The Climax Uranium Company mill at Grand Junction increased its capacity for the processing of uranium-vanadium ores, and a number of new uranium-vanadium mines were started during the year in Mesa County.

Mineral County

The output of gold, lead and zinc increased in Mineral county in 1952 but the production of silver decreased. The Emperius Mining Company operating the Amethyst,

Commodore Wedge, the New York, Volunteer, Del Monte, Aspen and the Equinox properties continues to be the largest producer as it has been for the past twelve years. The Phoenix mine of the Outlet Mining Company and the Holy Moses - Solomon mine shipped crude ore to the Leadville smelter.

Montrose County

Both the Vanadium Corporation of America's mill at Naturita and the United States Vanadium Company's mill at Uravan greatly increased their capacity during this year and both mills arranged for better sampling of crude ore than they have had heretofore.

Ouray County

The Camp Bird mine operated by King Lease, Incorporated, continues to be the largest producer of metals in Ouray county. It has been a consistent producer since it was reopened by Joe King in 1926. However, the falling metal prices affected this operation and the value of their output decreased in 1952 over 1951. The 125-ton mill at the Camp Bird handled approximately the same tonnage for 1952 as in 1951. The American Zinc-Lead and Smelting Company continued to buy ore for its custom mill until October when the mill was closed down. Small shippers of crude ore to custom mills or direct to smelters included the Lost Day - Patsy, Bachelor, Mineral Farm, Monarch, Old Smoky and others. Some rehabilitation work was carried on at the Revenue tunnel properties and at the Wheel of Fortune mine.

Park County

The large connected-bucket dredge of the South Platte Dredging Company near Fairplay, one of Colorado's large gold producers since 1945, was shut down for an indefinite period on January 15, 1952. Closing of this dredge caused the loss of more than 10,000 ounces of gold for 1952. The Buckskin Joe Mines, Limited, continued to work the Philips group, shipping gold, zinc, lead, silver ore to the Resurrection custom mill in Leadville. Small producers included the Harrisburg, Mineral Park and Shirley May mines near Alma, and the Betty Lode in the Freshwater district.

Pitkin County

Herron Brothers, working on the Smuggler and other groups in Aspen, treated dump ore in their gravity concentration mill, and shipped lead-silver concentrates, along with some crude ore. The McLean mine, thirteen miles south of Carbondale, equipped with a small jig mill, shipped a few tons of lead concentrate to the smelter.

Pueblo County

Several clay mines at and near Stone City produce clay for the Pueblo Clay Products plant in Pueblo. The Standard Fire Brick Company produces clay from the Chamblin mine, southeast of Pueblo and the Rock Creek mine between Beulah and Pueblo. The mica grinding plant of the Western Non-Metallics plants operated the entire year.

Rio Blanco County

Some uranium and vanadium ores were produced in Rio Blanco county during 1952. The Midnight mine, the Burrell and Last Day, and the Brown No. 4, all approximately twenty miles northeast of Meeker, worked part of the year, sending their ores to Rifle for treatment.

Saguache County

S. E. and W. E. Burleson continued to ship ore from the Antoro mine at Bonanza to the Resurrection mill at Leadville. The Rawley mine at Bonanza, leased to William J. Costello, shipped its ore to Leadville. Other producers included the Cora, Mountain Lion, Brighton, Little Jenny and Alaska-Yukon-Belmont. The Villa Grove Turquoise Company started operations on two lodes west of Villa Grove and had some production for the year 1952.

San Juan County

The Shenandoah-Dives Mining Company, largest operators in San Juan county for more than twenty years, maintained production from the Shenandoah-Dives, Mayflower-Silver Lake group throughout 1952. The ore was treated at the company's 700-ton flotation mill which also handled considerable custom ore from other operations in the county. Shippers to the Shenandoah included the Garry Owen-Old Hundred group, Pride of the West, Green Mountain, May Day, Henrietta, Caledonian, Columbus, Galena Queen, Great Eastern and Lead Carbonate.

The Bonita Mining and Developing Company curtailed operation late in the year due to the drop in lead and zinc prices. A small crew of men were kept on on exploration and development work.

The Pride of the West mill at Howardsville was purchased by J. Cameron Grant of the Falk Metals Corporation. This mill is being extensively repaired and the buildings insulated to improve winter operating conditions. The mill will have a daily capacity of 100 tons and will include a leaching plant for refining concentrates and producing zinc oxide.

The Gaultie Boy Mines, Incorporated, built roads to the upper tunnels on the Ohio claim and many old workings were cleaned out and repaired. Some dump ore, together with new ore mined on the second level, was milled and produced several truck lots of concentrates. Work on this property, however, was suspended in November for winter, but will resume again next spring.

San Miguel County

The output of silver and copper in San Miguel county increased sharply in 1952 but that of gold, lead and zinc varied but little from 1951. The county continued to rank first among Colorado counties in the production of silver, copper and lead and second in zinc. The Idarado Mining Company continued to be the large producer from its Black Bear and Ajax groups. During the year this company did extensive exploration and development work and drove in the old Meldrum tunnel from the Telluride side so it could be connected with the Black Bear-Ajax workings.

Telluride Mines, Incorporated, operated their Smuggler-Union and Montana groups throughout the year, milling the ore in their own mill. The crude ore tonnage was approximately the same as in 1951. Completion of the new ore pass connecting the new mill level tunnel with the mine workings 1,100 feet above enabled underground transportation of ore to the mill but the aerial tram is still being used to transport men and supplies. Additions to the mill were being made so that the capacity could be increased from 600 to 900 tons daily.

The Silver Bell Mines operated the Silver Bell and Carbonero at Ophir, treating the ore in the company's 150-ton mill. For exploration at the Carbonero mine the company was granted a Defense Minerals Exploration Administration loan of \$39,560.00. Extensive development work will be done on this property as time goes on. The Silver Bell mine maintains its regular production and the Carbonero mine at Ophir is supplying a good grade of silver, lead, zinc ore. The ore from Carbonero is hauled to the mill by four-wheel drive trucks and the company has a 15-ton semi-trailer truck to haul concentrates to Leadville. A tungsten concentration unit was added to the mill to handle wolframite ore found in erratic distribution throughout the Silver Bell ore. Considerable adjoining property has been acquired by the Silver Bell Mines Company during the year.

Summit County

In the Breckenridge district the Wellington mine, under the direction of W. L. Davenport, continued to be the principal producer of zinc, lead, silver, gold ore, and in 1952 the production was nearly double of any other year, this, in spite of the decreasing lead and zinc market.

At Montezuma producing mines included the Allen Emory, the Sts. John, Bullion, Chatauqua, Ida Belle, Manerva, Paymaster, Quail and Radical. Part of the ore mined in Montezuma was treated either at the Telluride Basin or Plymouth mill, but much of it went to the Resurrection mill at Leadville, or directly to the Arkansas Valley smelter, Leadville. Small production came from the Ten-Mile district and was from the Colonel Sellers, Kimberly, Wilfley and other properties. Rehabilitation work was started on the Benson and Bostwick placer on Hoosier Pass. Excellent recoveries were being made with a limited water supply when they were forced to cease operations for the winter.

Some significant finds of tungsten were made in Summit county and this ore will be treated in a mill being constructed by Andy Sweet and his two sons. The Sweet process first makes a tungsten concentrate and then treats the concentrate so it is more readily sold by a process developed by Mr. Sweet.

Teller County

The output of gold in the Cripple Creek district almost doubled in 1952 over the production in 1951. Most of the mines operated the full year in 1952 with all ore going to the 1,000-ton Carlton custom mill. The mill operated with improved efficiency as many of the "bugs" were ironed out and some changes and additions were necessary to obtain the best milling results.

The shortage of labor in the Cripple Creek area held the mine ore tonnage down to a point below the actual capacity of the new mill. The largest producers of gold in 1952 were the Ajax mine, the Cresson mine, Mary McKinney dump, United Gold mine and the Tenderfoot group. Other producers included the El Paso, Globe Hill, Free Coinage, Forest Queen, Jerry Johnson, Ruby and Empire Lee mines.

Champion Mines Company continued an exploration and development campaign at the Forest Queen and other properties on Ironclad Hill, and considerable production came from this exploration work.

The Front Range Mines, Incorporated, operating the Strong mine at Victor, produced some \$300,000.00 in gold for 1952. Stopes on their 1900 foot and 2100 foot level are said to contain ore averaging two ounces of gold per ton.

The Gold Coin Mining and Leasing Company has been working a block of ground on the 24th level of the Ajax mine, producing a good grade of ore. The Gold Coin also started to drive southward on the 12th level of the Ajax, prospecting for the New Market and Golconda veins, south of any present work.

PRODUCTION BY COUNTIES

1952

ADAMS COUNTY

Area, 1,247 Square Miles

Gold	\$ 38,395.00
Silver	143.00

TOTAL	\$ 38,538.00
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BOULDER COUNTY

Area, 753 Square Miles

Gold	\$ 27,545.00
Silver	253,551.00
Copper	8,712.00
Lead	63,434.00

TOTAL	\$ 353,242.00
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Fluorspar	\$ 528,646.00
Peat	6,000.00
Building Stone	181,897.00
Crushed Stone	11,425.00
Tungsten	345,202.00

TOTAL	\$ 1,073,170.00
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Total Production for County	\$ 1,426,412.00
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CHAFFEE COUNTY

Area, 1,039 Square Miles

Gold	\$ 1,155.00
Silver	515.00
Copper	968.00
Lead	6,762.00
Zinc	8,964.00

TOTAL	\$ 18,364.00
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Calcium	\$ 26,400.00
Feldspar	415,361.00
Fluorspar	296,901.00
Granite	5,960.00
Limestone	531,271.00

TOTAL	\$ 1,275,893.00
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Total Production for County	\$ 1,294,257.00
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CLEAR CREEK COUNTY

Area, 394 Square Miles

Gold	\$ 36,715.00
Silver	27,163.00
Copper	4,356.00
Lead	94,990.00
Zinc	76,692.00

TOTAL	\$ 239,916.00
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CONEJOS COUNTY

Area, 1,271 Square Miles

Silver	\$ 24.00
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COSTILLA COUNTY

Area, 1,215 Square Miles

Scoria	\$ 70,000.00
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CUSTER COUNTY

Area, 737 Square Miles

Gold	\$ 105.00
Silver	639.00
Copper	1,452.00
Lead	2,898.00
Zinc	3,652.00

TOTAL	\$ 8,746.00
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Perlite	\$ 242,463.00
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Total Production for County	\$ 251,209.00
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DOLORES COUNTY

Area, 1,028 Square Miles

Gold	\$ 4,480.00
Silver	115,345.00
Copper	35,332.00
Lead	718,060.00
Zinc	907,688.00

TOTAL	\$ 1,780,905.00
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DOUGLAS COUNTY

Area, 843 Square Miles

Clay	\$ 89,939.00
Limestone	5,990.00
Silica Rock	2,680.00

TOTAL	\$ 98,609.00
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EAGLE COUNTY

Area, 1,685 Square Miles

Gold	\$ 59,500.00
Silver	315,039.00
Copper	94,380.00
Lead	1,281,560.00
Zinc	8,632,000.00
TOTAL	\$ 10,382,479.00

EL PASO COUNTY

Area, 2,158 Square Miles

Limestone	\$ 108,676.00
Crushed Stone	23,291.00
Clay	5,502.00
TOTAL	\$ 137,469.00

FREMONT COUNTY

Area, 1,562 Square Miles

Gold	\$ 245.00
Silver	219.00
Lead	966.00
Zinc	6,640.00
TOTAL	\$ 8,070.00

Beryl	\$ 1,860.00
Clay	6,220.00
Dolomite	92,194.00
Feldspar	54,281.00
Ganister	22,738.00
Granite	5,350.00
Gypsum	212,955.00
Limestone	1,473,323.00
Mica	12,391.00
Silica	15,465.00
Terrazzo Chips (Marble)	25,200.00
Travertine (Building Stone)	25,385.00

TOTAL \$ 1,947,362.00

Total Production for County \$ 1,955,432.00

GARFIELD COUNTY

Area, 2,994 Square Miles

Limestone	\$ 36,364.00
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GILPIN COUNTY

Area, 149 Square Miles

Gold	\$ 1,050.00
Silver	71.00
Lead	322.00
TOTAL	\$ 1,443.00

GUNNISON COUNTY

Area, 3,242 Square Miles

Gold	\$ 9,800.00
Silver	97,197.00
Copper	14,036.00
Lead	336,490.00
Zinc	390,764.00
TOTAL	\$ 848,287.00

Feldspar	\$ 24,125.00
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Total Production for County	\$ 872,412.00
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HINSDALE COUNTY

Area, 1,057 Square Miles

Gold	\$ 3,850.00
Silver	24,726.00
Copper	5,808.00
Lead	240,856.00
Zinc	51,792.00
TOTAL	\$ 327,032.00

JACKSON COUNTY

Area, 1,623 Square Miles

Fluorspar	\$ 630,734.00
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JEFFERSON COUNTY

Area, 786 Square Miles

Gold	\$ 11,865.00
Silver	48.00
TOTAL	\$ 11,913.00

Beryl	\$ 1,912.00
Clay	316,361.00
Crushed Rock	503,000.00
Feldspar	792.00
Mica	61.00

TOTAL	\$ 822,126.00
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Total Production for County	\$ 834,039.00
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LAKE COUNTY
Area, 380 Square Miles

Gold	\$ 644,175.00
Silver	291,457.00
Copper	78,892.00
Lead	1,810,928.00
Zinc	2,817,684.00

TOTAL	\$ 5,643,136.00
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Ganister	\$ 14,217.00
Monazite	1,200.00
Molybdenum (Estimate)	27,875,650.00

TOTAL	\$ 27,891,067.00
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Total Production for County	\$ 33,534,203.00
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LA PLATA COUNTY
Area, 1,689 Square Miles

Gold	\$ 1,155.00
Silver	133.00
Lead	322.00

TOTAL	\$ 1,610.00
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LARIMER COUNTY
Area, 2,619 Square Miles

Gypsum	\$ 112,505.00
Limestone	809,760.00
Sandstone (Building Stone)	33,000.00
Tungsten	737.00

TOTAL	\$ 956,002.00
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LAS ANIMAS COUNTY
Area, 4,794 Square Miles

Alabaster (Estimate)	\$ 2,000.00
Clay	75,650.00

TOTAL	\$ 77,650.00
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MINERAL COUNTY
Area, 921 Square Miles

Gold	\$ 39,270.00
Silver	157,677.00
Copper	11,616.00
Lead	487,186.00
Zinc	339,968.00

TOTAL	\$ 1,035,717.00
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OURAY COUNTY
Area, 540 Square Miles

Gold	\$ 85,505.00
Silver	86,768.00
Copper	95,348.00
Lead	373,842.00
Zinc	317,724.00
TOTAL	\$ 959,187.00

PARK COUNTY
Area, 2,166 Square Miles

Gold	\$ 70,665.00
Silver	5,605.00
Copper	7,260.00
Lead	10,304.00
Zinc	75,696.00
TOTAL	\$ 169,530.00

PITKIN COUNTY
Area, 974 Square Miles

Gold	\$ 280.00
Silver	944.00
Lead	6,118.00
TOTAL	\$ 7,342.00

PUEBLO COUNTY
Area, 2,401 Square Miles

Clay	\$ 207,216.00
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ROUTT COUNTY
Area, 2,330 Square Miles

Gold	\$ 105.00
Silver	1.00
TOTAL	\$ 106.00

SAGUACHE COUNTY
Area, 3,144 Square Miles

Gold	\$ 3,710.00
Silver	13,345.00
Copper	11,616.00
Lead	89,516.00
Zinc	60,424.00
TOTAL	\$ 178,611.00
Turquoise	\$ 8,338.00
Total Production for County	\$ 186,949.00

SAN JUAN COUNTY
Area, 392 Square Miles

Gold	\$ 357,105.00
Silver	329,013.00
Copper	287,980.00
Lead	1,359,806.00
Zinc	488,372.00

TOTAL	\$ 2,822,276.00
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Tungsten	\$ 17,694.00
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Total Production for County	\$ 2,839,970.00
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SAN MIGUEL COUNTY
Area, 1,283 Square Miles

Gold	\$ 1,255,380.00
Silver	785,735.00
Copper	1,086,096.00
Lead	2,558,934.00
Zinc	3,267,212.00

TOTAL	\$ 8,953,357.00
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SUMMIT COUNTY
Area, 615 Square Miles

Gold	\$ 10,290.00
Silver	32,865.00
Copper	1,452.00
Lead	237,958.00
Zinc	218,124.00

TOTAL	\$ 500,689.00
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TELLER COUNTY
Area, 554 Square Miles

Gold	\$ 1,698,445.00
Silver	8,266.00

TOTAL	\$ 1,706,711.00
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Feldspar	\$ 108,562.00
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Total Production for County	\$ 1,815,273.00
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PRODUCTION IN COLORADO
for
1952

METALS

Gold	\$ 4,360,790.00
Silver	2,546,489.00
Copper	1,745,304.00
Lead	9,681,252.00
Zinc	17,663,346.00
Molybdenum	27,875,650.00
Tungsten	1,995,802.00
Beryllium	40,472.00
Tin	35,000.00
Miscellaneous	1,094,950.00
Uranium mining and processing with Vanadium by-products estimated value to State	50,000,000.00

TOTAL METAL PRODUCTION	\$ 117,039,055.00
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NON-METALLIC MINERALS

Alabaster	\$ 2,000.00
Calcium	26,400.00
Clays	700,888.00
Dolomite	92,194.00
Feldspar	603,121.00
Fluorspar	1,456,281.00
Ganister	36,955.00
Granite	11,310.00
Gypsum	325,460.00
Limestone	2,965,384.00
Marble	25,200.00
Mica	12,452.00
Monazite	1,200.00
Peat	6,000.00
Perlite	242,463.00
Sand & Gravel (Estimate)	5,300,000.00
Scoria	70,000.00
Silica Rock	18,145.00
Stone, Building	240,282.00
Stone, Crushed	537,716.00
Turquoise	8,338.00

TOTAL NON-METALLIC PRODUCTION	\$ 12,681,789.00
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Crude Oil	\$ 76,274,105.00
Natural Gas (Gross value at well head).....	4,289,600.00

TOTAL OIL AND GAS	\$ 80,563,705.00
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GRAND TOTAL	\$ 210,284,549.00
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SUMMARY OF ACCIDENTS

	Total man hours	Lost time injuries	Number of days lost	Frequency rate per one million man hours	Severity rate per one million man hours
Mines, Surface	2,456,440	125	1,823	51	.74
Mines, Underground	7,691,256	753	102,674	98	13.35
Quarries	1,508,040	29	257	19	.17
Mills, Smelters, Plants, etc.	9,337,848	175	29,315	19	3.14
State and Federal Projects	1,102,136	98	1,692	89	1.54
Oil Wells	2,288,000	136	25,338	60	11.07
	24,383,720	1,316	161,099	54	6.61

This table includes the loss of 138,000 days due to 23 fatalities and 9,300 days due to 24 permanent partial disabilities.

$$\text{Frequency rate} = \frac{\text{No. of injuries} \times 1,000,000}{\text{No. of man-hours of exposure}}$$

$$\text{Severity rate} = \frac{\text{Total time charges in days} \times 1,000}{\text{Number of man-hours of exposure}}$$

FATAL ACCIDENTSUndergroundEmployed byCause of DeathName of PersonDate

Alfred Wm. Sherrill
 Henry T. Hasenbalg
 Robert E. Barbours
 Aaron Stromberg
 James F. Barnett
 August F. Frerichs
 Ezequiel G. Lopez
 Arthur C. Royal
 Francis Rhodes
 Robert Bradford Jones
 Leo Arthur Arellano
 Donald K. Brown
 John Guenon
 Wilbur E. Roberts
 William W. Voight

Golden Cycle Corporation, Cripple Creek
 General Chem. Div, Allied Chem. & Dye Corp., Jamestown
 Gibbons - Reed & Boyle Brothers, Climax
 Aaron Stromberg & Co., Boulder
 Aaron Stromberg & Co., Boulder
 Aaron Stromberg & Co., Boulder
 Aaron Stromberg & Co., Boulder
 New Jersey Zinc Co., Gilman
 Idarado Mining Co., Ouray
 Colorado Standard Lead, Zinc Co., Lake City
 Resurrection Mining Co., Leadville
 Climax Molybdenum, Climax
 Resurrection Mining Co., Leadville
 Callahan Zinc, Lead Co., Whitepine
 Gibbons - Reed & Boyle Brothers, Climax

Struck by chute bar, throat punctured.
 Crushed by falling rock.
 Drilled into missed hole.
 Premature blast.
 Premature blast.
 Premature blast.
 Premature blast.
 Fell down stope.
 Fell 500 feet in open stope
 Fell in open ore chute.
 Caught between rib of drift and motor car
 Crushed by falling rock.
 Fell down manway shaft.
 Struck by falling rocks in manway.
 Blood clot caused by broken leg in fall.

Mills

G. Phillips Sandoval
 Gene H. Brink
 Forrest E. Sweetland
 Charles Pielt

Stearns - Rogers Mfg. Co., Climax
 Stearns - Rogers Mfg. Co., Climax
 Stearns - Rogers Mfg. Co., Climax
 Stearns - Rogers Mfg. Co., Climax

Fell 15 feet to cement floor.
 Struck by a 30-ton traveling crane.
 Fell 35 feet to cement floor.
 Caught between trippers - bled to death.

Oil Wells

Ray Durfee
 James R. Murphy
 Jesse Watson
 Lee Johnson

Kinnes Drilling Co., Ouray
 Anschutz Drilling Co., Sterling
 Olds Oil Corp., Sterling
 Gabe - Macali Drilling Co., Walden

Pinned between shaft and drum, punctured lung.
 Fell 85 feet to derrick floor.
 Struck by leg of derrick while dismantling.
 Struck by loose tong.

FATALITIES

There were 23 mining fatalities in 1952.

The victims ranged in age from 20 to 68, with an average of 41 years. They included old timers with 50 years' experience and college boys working during their vacation.

The most common cause was falls of distances ranging from 15 to almost 500 feet. During the year 7 men died in this manner. Explosions killed 5 and 3 were crushed when caught between machinery. Falling rocks claimed 3 lives and 4 were struck by parts of equipment. One man died of a blood clot after he slipped and struck his leg causing a fracture.

In 16 cases death was instantaneous, while one young man lived a month.

The underground mine proved the most dangerous, with 15 fatal accidents, 4 occurred on oil well derricks and 4 in surface mill construction.

Agency Causing Accident

<u>Mines, Surface</u>	<u>Killed</u>	<u>Temporary Injuries</u> <u>Loss of one day or more</u>
Bars - Bins - Chutes		1
Cables - Hose - Ropes		-
Cable overwind		-
Cars - Motors - Vehicles		22
Chains - Gears - Sprockets		1
Belts - Conveyors - Pulleys		-
Containers		-
Chemicals		-
Derricks - Headframes		1
Doors - Windows - Gates		3
Drills - Drilling Equipment		13
Dust and Particles		2
Explosives - Transportation		-
Explosives - Loading, Firing		-
Electricity - Elec. Equipment		-
Falls		22
Falling or Flying Objects		8
Flames - Fire - Hot Substances		6
Hoists - Hoisting Apparatus		3
Ladders - Manways		5
Machinery		11
Materials		6
Metal Objects		10
Platforms - Staging - Scaffolds		-
Premature or delayed blasts		-
Rock - Ore - Ground		3
Screens		-
Shovels, power		-
Tanks		-
Timber - Lumber - Poles		8
Unclassified - Insufficient Data		-
		<hr/>
Total		125

Agency Causing Accident

<u>Mines, Underground</u>	<u>Killed</u>	<u>Temporary Injuries</u> <u>Loss of one day or more</u>	
Bars - Bins - Chutes	1	28	
Cables - Hose - Ropes	-	13	
Cable overwind	-	1	
Cars - Motors - Vehicles	1	147	
Chains - Gears - Sprockets	-	1	
Belts - Conveyors - Pulleys	-	6	
Containers	-	1	
Chemicals	-	3	
Derricks - Headframes	-	-	
Doors - Windows - Gates	-	4	
Drills - Drilling Equipment	-	43	
Dust and Particles	-	17	
Explosives - Transportation	-	-	
Explosives - Loading, Firing	-	9	
Electricity - Elec. Equipment	-	3	
Falls	5	66	
Falling or Flying Objects	3	170	
Flames - Fire - Hot Substances	-	7	
Hoists - Hoisting Apparatus	-	26	
Ladders - Manways	-	8	
Machinery	-	41	
Materials	-	34	
Metal Objects	-	35	
Platforms - Staging - Scaffolds	-	8	
Premature or delayed blasts	5	10	
Rock - Ore - Ground	-	24	
Screens	-	1	
Shovels, power	-	1	
Tanks	-	-	
Timber - Lumber - Poles	-	26	
Unclassified - Insufficient Data	-	5	
	<hr/>	<hr/>	
Total	15	738	753

Agency Causing Accident

<u>Quarries</u>	<u>Killed</u>	<u>Temporary Injuries</u> <u>Loss of one day or more</u>
Bars - Bins - Chutes		1
Cables - Hose - Ropes		-
Cable overwind		-
Cars - Motors - Vehicles		1
Chains - Gears - Sprockets		-
Belts - Conveyors - Pulleys		-
Containers		1
Chemicals		-
Derricks - Headframes		-
Doors - Windows - Gates		1
Drills - Drilling Equipment		-
Dust and Particles		1
Explosives - Transportation		-
Explosives - Loading, Firing		-
Electricity - Elec. Equipment		-
Falls		5
Falling or Flying Objects		11
Flames - Fire - Hot Substances		-
Hoists - Hoisting Apparatus		-
Ladders - Manways		-
Machinery		2
Materials		1
Metal Objects		1
Platforms - Staging - Scaffolds		-
Premature or delayed blasts		-
Rock - Ore - Ground		4
Screens		-
Shovels, power		-
Tanks		-
Timber - Lumber - Poles		-
Unclassified - Insufficient Data		-
Total		29

Agency Causing Accident

<u>Mills, Smelters, Plants, etc.</u>	<u>Killed</u>	<u>Temporary Injuries</u> <u>Loss of one day or more</u>	
Bars - Bins - Chutes		8	
Cables - Hose - Ropes		-	
Cable overwind		1	
Cars - Motors - Vehicles		18	
Chains - Gears - Sprockets		-	
Belts - Conveyors - Pulleys		3	
Containers		5	
Chemicals		6	
Derricks - Headframes		-	
Doors - Windows - Gates		-	
Drills - Drilling Equipment		2	
Dust and Particles		11	
Explosives - Transportation		-	
Explosives - Loading, Firing		1	
Electricity - Elec. Equipment		4	
Falls	3	18	
Falling or Flying Objects		16	
Flames - Fire - Hot Substances		13	
Hoists - Hoisting Apparatus		2	
Ladders - Manways		4	
Machinery	1	15	
Materials		15	
Metal Objects		10	
Platforms - Staging - Scaffolds		4	
Premature or delayed blasts		-	
Rock - Ore - Ground		3	
Screens		2	
Shovels, power		-	
Tanks		2	
Timber - Lumber - Poles		5	
Unclassified - Insufficient Data		3	
	<hr/>	<hr/>	
Total	4	171	175

Agency Causing Accident

<u>State and Federal Projects</u>	<u>Killed</u>	<u>Temporary Injuries</u> <u>Loss of one day or more</u>
Bars - Bins - Chutes		3
Cables - Hose - Ropes		2
Cable overwind		5
Cars - Motors - Vehicles		9
Chains - Gears - Sprockets		-
Belts - Conveyors - Pulleys		1
Containers		-
Chemicals		-
Derricks - Headframes		-
Doors - Windows - Gates		1
Drills - Drilling Equipment		7
Dust and Particles		3
Explosives - Transportation		-
Explosives - Loading, Firing		-
Electricity - Elec. Equipment		4
Falls		15
Falling or Flying Objects		12
Flames - Fire - Hot Substances		4
Hoists - Hoisting Apparatus		-
Ladders - Manways		-
Machinery		3
Materials		9
Metal Objects		8
Platforms - Staging - Scaffolds		3
Premature or delayed blasts		-
Rock - Ore - Ground		1
Screens		-
Shovels, power		2
Tanks		1
Timber - Lumber - Poles		5
Unclassified - Insufficient Data		-
Total		98

Agency Causing Accident

<u>Oil Wells</u>	<u>Killed</u>	<u>Temporary Injuries</u> <u>Loss of one day or more</u>
Bars - Bins - Chutes	1	1
Cables - Hose - Ropes	-	6
Cable overwind	-	-
Cars - Motors - Vehicles	-	3
Chains - Gears - Sprockets	-	2
Belts - Conveyors - Pulleys	-	-
Containers	-	3
Chemicals	-	-
Derricks - Headframes	1	19
Doors - Windows - Gates	-	-
Drills - Drilling Equipment	-	20
Dust and Particles	-	3
Explosives - Transportation	-	-
Explosives - Loading, Firing	-	-
Electricity - Elec. Equipment	-	-
Falls	1	12
Falling or Flying Objects	-	4
Flames - Fire - Hot Substances	-	8
Hoists - Hoisting Apparatus	-	1
Ladders - Manways	-	-
Machinery	-	23
Materials	-	8
Metal Objects	-	15
Platforms - Staging - Scaffolds	-	-
Premature or delayed blasts	-	-
Rock - Ore - Ground	-	-
Screens	-	-
Shovels, power	-	-
Tanks	-	-
Timber - Lumber - Poles	-	3
Unclassified - Insufficient Data	-	2
Total	3	132

135

MINES, SURFACE

<u>TYPE OF INJURY</u>	<u>Killed</u>	<u>Temporary Injuries Loss of one day or more</u>
Burns		8
Caught in or between		15
Fall on the same Level		18
Fall on different Level		3
Handling		15
Inhalation - Suffocation		1
Striking against - Struck by		52
Slip - Stepping on		12
Unclassified - Insufficient Data		1
		—
Total		125

NATURE OF INJURY

Foreign Bodies	7
Cuts - Bruises - Laceration - Punctures	57
Strains - Sprains - Dislocation	35
Hernia	-
Fractures	15
Amputation	1
Burns - Scalds	8
Occupational Disease	2
Nature Unknown	-
	—
Total	125

SITE OF INJURY

Eye	13
Head - Face - Neck	7
Trunk	41
Upper Extremities	24
Lower Extremities	36
General	4
Insufficient Data	-
	—
Total	125

MINES, UNDERGROUND

<u>TYPE OF INJURY</u>	<u>Killed</u>	<u>Temporary Injuries</u> <u>Loss of one day or more</u>	
Burns	-	14	
Caught in or between	1	143	
Fall on the same Level	1	37	
Fall on different Level	4	32	
Handling	-	100	
Inhalation - Suffocation	-	3	
Striking against - Struck by	8	343	
Slip - Stepping on	1	65	
Unclassified - Insufficient Data	-	1	
	<hr/>	<hr/>	
Total	15	738	753

NATURE OF INJURY

Foreign Bodies	-	47	
Cuts - Bruises - Laceration - Punctures	3	393	
Strains - Sprains - Dislocation	-	154	
Hernia	-	12	
Fractures	12	100	
Amputation	-	9	
Burns - Scalds	-	15	
Occupational Disease	-	4	
Nature Unknown	-	4	
	<hr/>	<hr/>	
Total	15	738	753

SITE OF INJURY

Eye	-	53	
Head - Face - Neck	3	52	
Trunk	2	223	
Upper Extremities	-	145	
Lower Extremities	1	234	
General	9	31	
Insufficient Data	-	-	
	<hr/>	<hr/>	
Total	15	738	753

QUARRIES

<u>TYPE OF INJURY</u>	<u>Killed</u>	<u>Temporary Injuries</u> <u>Loss of one day or more</u>
Burns		-
Caught in or between		1
Fall on the same Level		5
Fall on different Level		1
Handling		4
Inhalation - Suffocation		-
Striking against - Struck by		16
Slip - Stepping on		2
Unclassified - Insufficient Data		-
		<hr/>
Total		29

NATURE OF INJURY

Foreign Bodies	5
Cuts - Bruises - Laceration - Punctures	10
Strains - Sprains - Dislocation	8
Hernia	1
Fractures	5
Amputation	-
Burns - Scalds	-
Occupational Disease	-
Nature Unknown	-
	<hr/>
Total	29

SITE OF INJURY

Eye	5
Head - Face - Neck	2
Trunk	7
Upper Extremities	5
Lower Extremities	8
General	2
Insufficient Data	-
	<hr/>
Total	29

MILLS AND SMELTERS

<u>TYPE OF INJURY</u>	<u>Killed</u>	<u>Temporary Injuries</u> <u>Loss of one day or more</u>	
Burns		17	
Caught in or between	2	21	
Fall on same Level		12	
Fall on different Level	2	10	
Handling		28	
Inhalation - Suffocation		9	
Striking against - Struck by		60	
Slip - Stepping on		14	
Unclassified - Insufficient Data		-	
	<hr/>	<hr/>	
Total	4	171	175

NATURE OF INJURY

Foreign Bodies		10	
Cuts - Bruises - Laceration - Punctures		58	
Strains - Sprains - Dislocation		31	
Hernia		5	
Fractures	4	32	
Amputation		4	
Burns - Scalds		18	
Occupational Disease		13	
Nature Unknown		-	
	<hr/>	<hr/>	
Total	4	171	175

SITE OF INJURY

Eye		15	
Head - Face - Neck		15	
Trunk	2	57	
Upper Extremities		33	
Lower Extremities		36	
General	2	15	
Insufficient Data		-	
	<hr/>	<hr/>	
Total	4	171	175

STATE AND FEDERAL PROJECTS

<u>TYPE OF INJURY</u>	<u>Killed</u>	<u>Temporary Injuries</u> <u>Loss of one day or more</u>
Burns		4
Caught in or between		15
Fall on the same Level		16
Fall on different Level		2
Handling		12
Inhalation - Suffocation		-
Striking against - Struck by		36
Slip - Stepping on		13
Unclassified - Insufficient Data		-
		<hr/>
Total		98

NATURE OF INJURY

Foreign Bodies	7
Cuts - Bruises - Laceration - Punctures	37
Strains - Sprains - Dislocation	22
Hernia	4
Fractures	24
Amputation	-
Burns - Scalds	4
Occupational Disease	-
Nature Unknown	-
	<hr/>
Total	98

SITE OF INJURY

Eye	8
Head - Face - Neck	6
Trunk	32
Upper Extremities	17
Lower Extremities	30
General	5
Insufficient Data	-
	<hr/>
Total	98

OIL WELLS

<u>TYPE OF INJURY</u>	<u>Killed</u>	<u>Temporary Injuries</u> <u>Loss of one day or more</u>	
Burns		8	
Caught in or between		33	
Fall on the same Level		9	
Fall on different Level	1	3	
Handling		9	
Inhalation - Suffocation		-	
Striking against - Struck by	2	64	
Slip - Stepping on		5	
Unclassified - Insufficient Data		2	
	<hr/>	<hr/>	
Total	3	133	136

NATURE OF INJURY

Foreign Bodies		4	
Cuts - Bruises - Laceration - Punctures		68	
Strains - Sprains - Dislocation		14	
Hernia		-	
Fractures	3	33	
Amputation		4	
Burns - Scalds		8	
Occupational Disease		-	
Nature Unknown		2	
	<hr/>	<hr/>	
Total	3	133	136

SITE OF INJURY

Eye		8	
Head - Face - Neck		13	
Trunk	1	26	
Upper Extremities		52	
Lower Extremities		31	
General	2	3	
Insufficient Data		-	
	<hr/>	<hr/>	
Total	3	133	136

Men Employed 1952

	<u>Mines</u>		<u>Mills, Plants, etc.</u>		<u>Quarries</u>		<u>Placers</u>		<u>Tunnels Dams</u>	<u>Oil Wells</u>
	<u>No.</u>	<u>Men</u>	<u>No.</u>	<u>Men</u>	<u>No.</u>	<u>Men</u>	<u>No.</u>	<u>Men</u>	<u>Men</u>	<u>Men</u>
District No. 1	92	491	21	488	29	222	6	39	611	800
District No. 2	29	233	12	365	39	217	-	-	72	50
District No. 3	54	1948	17	1673	9	108	-	-	74	650
District No. 4	192	2082*	17	1401*	1	2	1	4	57	50
	—	—	—	—	—	—	—	—	—	—
Total	367	4754	67	3927	78	549	7	43	814	1550

*1 - This includes Diamond Drill operators..

*2 - This includes transportation workers.

Total Men Employed

District No. 1	2651
District No. 2	937
District No. 3	4453
District No. 4	3596

11,637

1 9 5 2

INSPECTIONS

Made by

MINE INSPECTORS, DISTRICTS Nos. 1, 2, 3, 4

	District 1	District 2	District 3	District 4	
	Chapman	Theobald	Doyle	Franz	Total
1952					
January	11	11	13	24	59
February	17	14	24	22	77
March	26	9	10	17	62
April	30	6	5	33	74
May	27	6	24	40	97
June	16	6	20	30	72
July	38	12	11	12	73
August	28	8	6	37	79
September	11	4	10	23	48
October	16	7	14	20	57
November	7	4	8	18	37
December	10	13	14	13	50
	237	100	159	289	785

Total Inspections - 785

82 Drilling oil wells inspected.

LIST OF OPERATING MINES IN VARIOUS COUNTIES IN COLORADO
OPERATING MINES IN BOULDER COUNTY, 1952

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
ARGO MINE Williamson and Sons 728 U. S. National Bank Building Denver, Colorado H. M. Williamson, Manager	Fluorspar	Jamestown	1
BLUE JAY MINE Williamson and Sons 728 U. S. National Bank Building Denver, Colorado H. M. Williamson, Manager	Fluorspar	Jamestown	1
BONANZA #2 MINE Bodner Brothers 500 Grand Avenue Louisville, Colorado Bodner Brothers, Lessees	Tungsten	Nederland	1
BURLINGTON MINE General Chemical Division Allied Chemical & Dye Corporation Box 228 Boulder, Colorado Al McGowen, Manager VALMONT MILL (listed under Mills & Smelters)	Fluorspar	Jamestown	1
CARIBOU MINE Consolidated Caribou Silver Mines, Inc. 1406 Pearl Street Boulder, Colorado Matthew Ollsen, Manager	Silver Lead Zinc	Nederland	1
CLYDE MINE Hetzer Mines, Inc. 250 Pearl Street Boulder, Colorado Elmer Hetzer, Manager	Tungsten	Nederland	1
COLD SPRING MINE Cold Spring Tungsten, Inc. 405 Interstate Trust Building Denver, Colorado Arthur Johnson, Manager	Tungsten	Nederland	1
COMSTOCK MINE Pandora Metals, Inc. 1555 Dayton Street Aurora, Colorado E. T. Blakesley, President & Manager	Exploration and Development (Zinc, Lead, and Silver)	Nederland	1

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
CONGER MINE Vanadium Corporation of America 420 Lexington Avenue New York 17, New York D. W. Viles, Vice Pres. & Gen. Manager Durango, Colorado D. V. Harrison, Manager Nederland, Colorado	Tungsten	Nederland	1
CROSS MINE Benson & Litsey Nederland, Colorado Thomas Linder, Manager	Tungsten	Nederland	1
EMMETT MINE Williamson and Sons 728 U. S. National Bank Building Denver, Colorado H. M. Williamson, Manager	Fluorspar	Jamestown	1
EUREKA MINE Eureka Tungsten 3255 South Cherokee Street Englewood, Colorado John S. Keifer, Manager	Exploration and Development (Tungsten)	Nederland	1
FOREST HOME MINE Tom C. Stanford 2014 Broadway Street Boulder, Colorado Tom C. Stanford, Manager	Tungsten	Nederland	1
FRACTION MINE Hauck, Simms and Tonkinson 435 Francis Street Longmont, Colorado A. E. Hauck, Manager	Tungsten	Sugarloaf	1
GOOD FRIDAY - APRIL FOOL MINE George Jump Mining Company 916 14th Street Boulder, Colorado George Jump, Manager	Tungsten	Sugarloaf	1
HALLIE A MINE James L. McBroom and L. R. Allen Box 372 A, R. R. #2 Boulder, Colorado James L. McBroom, Manager	Exploration and Development (Tungsten)	Nederland	1

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
HILDAGARDE MINE Vanadium Corporation of America 420 Lexington Avenue New York 17, New York D. W. Viles, Vice Pres. & Gen. Manager Durango, Colorado D. V. Harrison, Manager Nederland, Colorado	Tungsten	Sugarloaf	1
HILLSIDE MINE Vanadium Corporation of America 420 Lexington Avenue New York 17, New York D. W. Viles, Vice Pres. & Gen. Manager Durango, Colorado D. V. Harrison, Manager Nederland, Colorado	Tungsten	Sugarloaf	1
HOOSIER MINE Johnson Brothers and George Prime Nederland, Colorado George Prime, Manager	Tungsten	Nederland	1
KATY MINE Boulder Tungsten Mines, Inc. Box 37 Boulder, Colorado George H. Teal, Manager	Tungsten	Sugarloaf	1
MANYON LEASE MINE Slide Mines, Inc. 1916 14th Street Boulder, Colorado F. J. Spence, Manager	Exploration and Development (Tungsten)	Ward	1
PAYMASTER MINE Paymaster Mine Trust 427 Cooper Building Denver, Colorado Dan Schmitt, Manager	Exploration and Development (Gold, Silver and Lead)	West of Boulder	1
PHILADELPHIA MINE R. H. Davis, S. Bremmer, E. R. Sena and Adolph Dinkel Nederland, Colorado S. Bremmer, Manager	Tungsten	Nederland	1
RAMBLER MINE Smith and Rugg Nederland, Colorado Joe Smith, Manager	Exploration and Development (Tungsten)	Nederland	1

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
ROOSEVELT LEASE Rodgers and Crook 1723 15th Street Boulder, Colorado E. J. Crook, Manager	Tungsten	Boulder	1
RAFTER LEASE P. H. Ruhter 1734 Walnut Street Boulder, Colorado P. H. Ruhter, Manager	Exploration and Development (Tungsten)	Nederland	1
SPARTAN #5 MINE Rocky Mountain Mining and Milling Co. Box 214 Jamestown, Colorado Clark H. Clark, Manager	Fluorspar	Jamestown	1
TENDERFOOT MINE Cobb and Weldon 401 Pine Street Boulder, Colorado Harrison Cobb, Manager	Tungsten	Nederland	1
TUNGSTEN MINE Tungsten Mining Company 420 Pine Street Boulder, Colorado George Cowdery, Manager	Tungsten	Nederland	1
VASCO #1 MINE Hetzer Mines, Inc. 250 Pearl Street Boulder, Colorado P. H. Bennett, Manager	Exploration and Development (Tungsten)	Nederland	1
VASCO #5 MINE L. & P. Mining Company 5555 North Federal Denver, Colorado Robert Plummer, Manager	Tungsten	Nederland	1
VICTORY MINE Victory Tungsten Trust 502 E. & C. Building Denver, Colorado Karl DuBois, Manager	Exploration and Development (Tungsten)	Nederland	1

OPERATING MINES IN CHAFFEE COUNTY, 1952

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
BROWN CANYON MINE (AMERICAN) General Chemical Division Allied Chemical & Dye Corp. Box 550 Salida, Colorado A. W. McGowen, Manager Boulder, Colorado	Fluorspar	N. E. of Salida	3
JOSEPHINE MINE Josephine Lode Mining & Developing Co. Box 392 Buena Vista, Colorado B. J. Hahne, Manager	Exploration and Development (Gold, Silver, Copper, Cobalt, and Nickel)	Buena Vista	3
MADONNA MINE Utze Lode Company Box 500 Salida, Colorado Harold R. Koster, Manager	Exploration and Development (Gold, Silver, Copper, Lead and Zinc)	Monarch Mining District	3
MARY MURPHY MINE W. E. & S. E. Burleson 120 West 2nd Street Salida, Colorado Henry Carey, Manager	Lead Zinc Gold Silver Copper	St. Elmo	3
NEGLECTED CLAIM Harold MacKeen 542 G Street Salida, Colorado Harold MacKeen, Manager	Exploration and Development (Lead, Copper and Silver)	Taylor Mountain	3
PONCHA SPRINGS FLUORSPAR MINE Reynolds Mining Corporation Box 169 Salida, Colorado E. O. Soret, Manager REYNOLDS MILL (listed under Mills & Smelters)	Fluorspar	Poncha Springs	3

OPERATING MINES IN CLEAR CREEK COUNTY, 1952

BARD CREEK MINE Clifford Whitworth Empire, Colorado Clifford Whitworth, Manager	Exploration and Development (Lead, Zinc, Gold, and Silver)	Bard Creek Empire	1
BIG HORN MINE D. L. Nicholl & Edwyn N. Roberts 3606 South Bannock Englewood, Colorado D. L. Nicholl, Manager	Exploration and Development (Lead, Zinc, Gold, and Silver)	Lawson	1

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
BOSTON MINE Boston Mining Corporation 844 15th Street Boulder, Colorado Bernard Buckley, Manager Georgetown, Colorado	Exploration and Development (Lead, Zinc, and Silver)	Georgetown	1
BRIGHTON #2 MINE East Slope Mining Company 315 E. Pikes Peak Avenue Colorado Springs, Colorado C. E. Bazley, Manager	Silver Lead Zinc	Seaton Mountain Idaho Springs	1
COMSTOCK MINE Charles Hull Idaho Springs, Colorado Charles Hull, Manager	Exploration and Development (Lead, Zinc, and Silver)	Lawson	1
CRAZY GIRL MINE King and East 2390 South Delaware Denver, Colorado Jim East, Manager	Silver Lead Gold	Idaho Springs Lamartine	1
CUBA MINE W. L. W. Mining Company Box 95 Idaho Springs, Colorado John Wilkinson, Manager	Exploration and Development (Gold, Silver and Lead)	Dumont	1
DIXIE MINE Leroy Giles and Company Idaho Springs, Colorado W. W. Jones, Manager DIXIE MILL (listed under Mills & Smelters)	Gold	Idaho Springs Ute Creek	1
DRUMMOND MINE Drummond Mines, Inc. Idaho Springs, Colorado Robert Cutler, Manager	Silver Lead Zinc	Lawson	1
FORGEHILL TUNNEL C. E. Morrison Route 3, Box 224 Golden, Colorado C. E. Morrison, Manager	Exploration and Development (Lead, Silver, Zinc and Gold)	Idaho Springs	1
GRIZZLY MINE Lupton Mining and Milling Co. Georgetown, Colorado E. P. Lupton, Manager LUPTON MILL (listed under Mills & Smelters)	Gold Silver Lead Zinc	Silver Plume Bakerville	1

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
HIDDEN TREASURE MINE Tucker and Company Empire, Colorado T. Tucker, Manager	Exploration and Development (Gold & Silver)	Empire	1
KITTY CLYDE MINE John Rosenburg Bryan, Ohio Charles Hull, Manager	Lead Zinc	Idaho Springs Spring Gulch	1
LAKE MINE Lake Mining Company Idaho Springs, Colorado Arthur Porterier, Manager	Exploration and Development (Gold, Silver Lead and Zinc)	Virginia Canyon	1
LAMARTINE MINE Montana Mining and Developing Co. Manhattan, Montana Charles Anderson, Manager LAMARTINE MILL (listed under Mills & Smelters)	Gold Silver Lead Zinc	Idaho Springs Lamartine	1
MATTIE JACK MINE Monarch Mining Trust 416 Cooper Building Denver, Colorado B. L. Groth, Manager MONARCH MILL (listed under Mills & Smelters)	Exploration and Development (Lead and Silver)	Dumont	1
MENDOTA - FROSTBURG MINE Mendota-Frostburg Mining Company Box 6630 Stockyard Station Denver, Colorado A. Cohen, Manager	Silver Lead Zinc	Silver Plume	1
NABOB MINE Nabob Development Company 812 Majestic Building Denver, Colorado Charles O. Parker, Manager	Exploration and Development (Silver, Lead and Gold)	Silver City Lawson	1
OREGON MINE George Trader Idaho Springs, Colorado George Trader, Manager	Exploration and Development (Gold, Silver and Lead)	Idaho Springs	1
SMUGGLER MINE Lawrence Schreiner Georgetown, Colorado Lawrence Schreiner, Manager	Silver Lead Zinc	Silver Plume	1

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
STANLEY MINE Gus F. Ingwersen 1434 Forest Street Denver, Colorado Gus F. Ingwersen, Manager	Gold Silver Lead	Idaho Springs	1
WALT STEMBEL MINE J. D. Mining Company Lawson, Colorado William H. Drury, Manager	Lead Zinc Silver Gold	Lawson	1
TERRIBLE DUNDERBERG MINE Gold Mines Consolidated Georgetown, Colorado Douglas Watrous, Manager	Silver Lead Zinc	Silver Plume	1
TYONE MINE Tyone Mining Company Idaho Springs, Colorado W. D. Fenicle, Manager	Exploration and Development (Lead, Silver and Gold)	Idaho Springs Ute Creek	1
URAD MINE Molybdenum Corporation of America 500 5th Avenue New York 18, New York J. B. Carman, Manager	Exploration and Development (Molybdenum)	Empire	1
ZERO MINE John A. Smith Box 6 Silver Plume, Colorado John A. Smith, Manager	Exploration and Development (Lead, Silver and Zinc)	Silver Plume	1

OPERATING MINES IN CUSTER COUNTY, 1952

BUCKEYE MINE Buckeye Mining Company Westcliffe, Colorado C. R. McKnight, Manager	Exploration and Development (Silver, Lead and Copper)	Westcliffe	2
DEFENDER MINE Defender Mining Company Silvercliff, Colorado E. F. Stacy, Manager	Lead Zinc Silver	Westcliffe	2
REVELEE MINE C. S. Mining Company 780 Magnolia Street Denver, Colorado Pete Cowan, Manager	Lead Silver	Silvercliff	2

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
SUPERIOR MINE Decker & Eisenhour Box 251 Florence, Colorado Ralph Decker, Manager	Exploration and Development (Gold)	Ophir Creek	2
TOM BOY MINE Charles & Lyman Akin 2133 West 11th Street Pueblo, Colorado Charles Akin, Manager	Exploration and Development (Lead and Silver)	Ophir Creek	2

OPERATING MINES IN DELTA COUNTY, 1952

DOTY MINE Atlas Mng. & Mfg. Company 410 Main Street Delta, Colorado G. E. A. Salmans, Manager	Vita-min-el Sulfur	Delta	4
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OPERATING MINES IN DOLORES COUNTY, 1952

ARGENTINE MINE Rico Argentine Mining Company Rico, Colorado S. B. Hinckley, Manager RICO ARGENTINE MILL (listed under Mills & Smelters)	Copper Lead Zinc	Rico	4
FORREST PAY ROLL MINE Knickerbocker Mining Company Rico, Colorado Eddie Baer, Manager	Lead Zinc Silver Copper	Rico	4
MOUNTAIN SPRING MINE Rico Argentine Mining Company Rico, Colorado S. B. Hinckley, Manager	Lead Zinc Copper	Rico	4
RICO BOY TUNNEL Edward A. Edwards & Associates Manitou Springs, Colorado Lewis Jones, Manager	Exploration and Development (Gold, Silver, Lead and Zinc)	Rico	4
SAINT LOUIS CLAIM Myron Jones & Associates Rico, Colorado Myron Jones, Manager	Exploration and Development (Gold)	Rico	4
SAINT LOUIS TUNNEL Rico Argentine Mining Company Rico, Colorado S. B. Hinckley, Manager	Exploration and Development (Gold, Silver, Lead and Zinc)	Rico	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
SILVER SWAN MINE	Lead	Rico	4
Rico Argentine Mining Company	Zinc		
Rico, Colorado	Copper		
S. B. Hinckley, Manager			

OPERATING MINES IN EAGLE COUNTY, 1952

EMPIRE ZINC MINE	Silver	Gilman	3
Empire Zinc Division	Lead		
New Jersey Zinc Company	Zinc		
Gilman, Colorado	Copper		
F. J. Maloit, Manager	Iron		
W. L. Jude, Superintendent			
EMPIRE ZINC MILL			
(listed under Mills & Smelters)			
MORNING MINE	Exploration and Development	Eagle	3
Nick Randall	(Lead, Zinc, and Silver)		
707 East 5th Street			
Leadville, Colorado			
Nick Randall, Manager			

OPERATING MINES IN FREMONT COUNTY, 1952

COTOPAXI MINE TRUST	Exploration and Development	Cotopaxi	2
Ray Knowles	(Lead, Silver, Gold, Zinc, and Copper)		
Cotopaxi, Colorado			
George W. Frye, Manager			
MONARCH GALENA MINE	Exploration and Development	Cotopaxi	2
Poston Mining Company	(Lead, Zinc, and Copper)		
Canon City, Colorado			
Adolph Poston, Jr., Manager			

OPERATING MINES IN GARFIELD COUNTY, 1952

EAST RIFLE CREEK MINE	Uranium	Rifle	3
C. C. Sterns	Vanadium		
Rifle, Colorado			
C. C. Sterns, Manager			
Leased from U. S. Vanadium			
ENTERPRIZE MINE	Uranium	Rifle	3
M. E. Graham	Vanadium		
Rifle, Colorado			
M. E. Graham, Manager			
OIL SHALE MINE	Oil Shale	Rifle	3
U. S. Bureau of Mines			
New Customhouse			
Denver, Colorado			
Boyd Guthrie, Manager			

OPERATING MINES IN GILPIN COUNTY, 1952

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
CALHOUN MINE Cripple Creek-Merino Mining Co. 1130 16th Street Denver, Colorado Ray Bennett, Manager	Exploration and Development (Gold, Silver, Lead and Zinc)	Central City	1
CANANDAIGUA MINE William Russell, Jr. Central City, Colorado William Russell, Jr., Manager	Exploration and Development (Gold and Lead)	Central City	1
EUREKA ESSEX MINE United Mining and Leasing Company Box 246 Central City, Colorado C. R. McKay, Manager	Exploration and Development (Lead, Zinc, and Silver)	Central City	1
LAMBERSON & WARREN MINE Lewis E. Toney et. al. Central City, Colorado Lewis E. Toney, Manager	Exploration and Development (Lead, Silver, Zinc and Gold)	Nevada District	1
MACKEY MINE A. R. & Richard V. Mackey Box 269 Boulder, Colorado Richard V. Mackey, Manager	Exploration and Development (Lead, Gold and Copper)	Mammoth Gulch	1
SMITH TUNNEL Lone Star Mining Company 395 Allison Lakewood, Colorado R. W. Carroll, Manager	Gold Zinc Lead Silver Copper	Blackhawk	1
WE-GOT-EM MINE Gold Chief Mines, Inc. Box 218 Central City, Colorado Maude W. Russell, Manager	Gold Silver	Central City	1

OPERATING MINES IN GUNNISON COUNTY, 1952

AKRON MINE Callahan Zinc-Lead Company Whitepine, Colorado James Dunn, Manager CALLAHAN ZINC-LEAD COMPANY MILL (listed under Mills & Smelters)	Lead Zinc	Whitepine	4
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<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
BROWN DERBY MINE Poston Mining Company Box 510 Canon City, Colorado Warren Poston, Manager	Lepidolite Michrolite Beryllium	Parlin	4
CARTER MINE Kamarado Mining & Developing Co. Ohio City, Colorado Charles Vashus, Manager CARTER MILL (listed under Mills & Smelters)	Silver Lead Gold	Ohio City	4
DAISEY MINE Crested Butte Mining & Milling Corp. Crested Butte, Colorado Richard Mackey, Manager	Silver Lead Zinc	Crested Butte	4
ERIE MINE Callahan Zinc-Lead Company Whitepine, Colorado James Dunn, Manager	Lead Zinc	Whitepine	4
KEYSTONE MINE American Smelting & Refining Co. Crested Butte, Colorado Nolan Probst, Manager	Exploration and Development (Silver, Lead and Zinc)	Crested Butte	4
MICANBER MINE Slate River Mining Company P. O. Box 928 Durango, Colorado Robert Simpson, Manager	Silver Lead Zinc	Crested Butte	4
UNDINE MINE B. D. & P. Mining Company Route 2 Glenwood Springs, Colorado C. A. Betz, Manager	Lead Silver	Marble	3

OPERATING MINES IN HINSDALE COUNTY, 1952

HOOSIER BOY MINE C. J. Van Buskirk Lake City, Colorado C. J. Van Buskirk, Manager	Exploration and Development (Gold, Silver, Lead and Zinc)	Lake City	4
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<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
UTE AND ULAY MINE Colorado Standard Lead-Zinc Mines, Inc. Lake City, Colorado P. C. Walker, Manager COLORADO STANDARD LEAD-ZINC MILL (listed under Mills & Smelters)	Lead Zinc	Lake City	4
VIEW OF THE PARK MINE D. & N. Lead Mining Company Box 76 Lake City, Colorado C. R. North, Manager	Exploration and Development (Gold, Silver, Lead and Zinc)	Lake City	4

OPERATING MINES IN JACKSON COUNTY, 1952

NORTHGATE MINE Ozark-Mahoning Company Cowdrey, Colorado M. P. Cloonan, General Manager R. K. Wisco, Plant Manager NORTHGATE MILL (listed under Mills & Smelters)	Fluorspar	Northgate	1
NORTHGATE OPEN PIT MINE Ozark-Mahoning Company Cowdrey, Colorado M. P. Cloonan, General Manager R. K. Wisco, Plant Manager Riggs & Monroe, Contractor 5703 Ammons Arvada, Colorado	Fluorspar	Northgate	1

OPERATING MINES IN JEFFERSON COUNTY, 1952

LEYDEN SHAFT Cripple Creek-Merino Mines Co. 1130 16th Street Denver, Colorado Ray Bennett, Manager	Exploration and Development (Uranium and Vanadium)	Leyden	1
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OPERATING MINES IN LAKE COUNTY, 1952

ROBERT ATKINSON LEASE Robert Atkinson 521 East Third Street Leadville, Colorado Robert Atkinson, Manager Leased from Resurrection Mining Company	Gold Silver Lead Zinc	Leadville	3
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<u>NAME (OF OPERATION)</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
ROY BOND LEASE Roy Bond & Company East 9th Street Leadville, Colorado Roy Bond, Manager Leased from Resurrection Mining Company	Silver Lead Zinc	Leadville	3
CLIMAX MINE Climax Molybdenum Company 500 Fifth Avenue New York, New York C. J. Abrams, General Manager Franklin Coolbaugh, Manager CLIMAX MILL (listed under Mills & Smelters)	Molybdenite Tin Monazite Tungsten Pyrite	Climax	3
CLIMAX MINE (GLORY HOLE) C. Ryan & Son Box 7828 Lakewood, Colorado Lee & Robert Ryan, Managers	Molybdenum	Climax	3
DOLLY B MINE Roberts & Company Box 316 Leadville, Colorado John Roberts, Manager Leased from Resurrection Mining Company	Gold Silver Lead	Leadville	3
ECLIPSE (Sunday-Ibex Area) American Smelting & Refining Company 120 Broadway New York 5, New York John Mitchell, Manager Paul Harrison, Manager of Colorado Dept.	Lead Zinc	Leadville	3
FORTUNE MINE J. L. Adams 328 W. 7th Street Leadville, Colorado J. L. Adams, Manager	Gold Silver Lead Zinc	Leadville	3
GARIBALDI TUNNEL (Sunday-Ibex Area) Robert L. Jones Box 592 Leadville, Colorado Robert L. Jones, Manager Leased from American Smelting & Refining Co.	Gold Silver Lead Zinc	Climax	3
GILNA LEASE Harold Gilna 303 East 8th Street Leadville, Colorado Harold Gilna, Manager Leased from Resurrection Mining Company	Lead Zinc	Leadville	3

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
HANSON LEASE Clyde M. Hanson & Rex E. Stout 415 East 2nd Street Leadville, Colorado Clyde M. Hanson, Manager Leased from Resurrection Mining Company	Gold Silver Lead	Leadville	3
HAYDEN SHAFT Caldwell Mining Company 504 West 8th Street Leadville, Colorado Vernon Phillips, Manager Leased from Resurrection Mining Company	Silver Lead Zinc	Leadville	3
IRENE #2 MINE American Smelting & Refining Co. 120 Broadway New York 5, New York John Mitchell, Manager Paul Harrison, Manager of Colorado Dept.	Exploration and Development (Gold, Silver, Lead and Zinc)	Leadville	3
KAISER LEASE Froelich G. Kaiser 106 Harrison Avenue Leadville, Colorado Froelich G. Kaiser, Manager Leased from Resurrection Mining Company	Gold Silver Lead Zinc	Leadville	3
JOHN KOSTELLIC LEASE John Kostellic 1016 Alder Street Leadville, Colorado John Kostellic, Manager Leased from Resurrection Mining Company	Gold Silver Lead Zinc	Leadville	3
LAKWOOD MINE Maki Brothers 410 East 8th Street Leadville, Colorado Eugene Maki, Manager	Exploration and Development (Gold and Silver)	Turquoise Lake	3
LEADVILLE DRAINAGE TUNNEL Adams Lease 328 West 7th Street Leadville, Colorado John Adams, Manager Leased from American Smelting & Refining Co.	Exploration and Development (Gold, Silver, Lead and Zinc)	Leadville	3
LITTLE ALICE James Murcray 415 East 8th Street Leadville, Colorado James Murcray, Manager	Gold Silver Lead	Leadville	3

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
MONARCH MINE C. N. Scott 133 West 8th Street Leadville, Colorado C. N. Scott, Manager	Gold Silver Lead Zinc	Leadville	3
PESCHEL LEASE George Peschel & Company 404 East 5th Street Leadville, Colorado George Peschel, Manager Leased from Resurrection Mining Company	Lead Zinc	Leadville	3
RESURRECTION MINE Resurrection Mining Company Box 936 Leadville, Colorado B. B. Greenlee, Manager RESURRECTION MILL (listed under Mills & Smelters)	Gold Silver Lead Zinc	Leadville	3
ROBERT EMMET MINE American Smelting & Refining Co. 120 Broadway New York 5, New York John Mitchell, Manager Paul Harrison, Manager of Colorado Dept.	Exploration and Development (Gold, Silver, Lead and Zinc)	Leadville	3
RUSSELL LEASE Ralph Russell 117 East 10th Street Leadville, Colorado Ralph Russell, Manager Leased from Resurrection Mining Company	Gold Silver Lead Zinc	Leadville	3
STORKE TUNNEL Climax Molybdenum Company Gibbons & Reed - Boyle Brothers Box 95 Climax, Colorado W. K. McGlothlin, Manager	Exploration and Development (Molybdenum)	Climax	3
TEKANSIK LEASE Rudolph Tekanskik Leadville, Colorado Rudolph Tekanskik, Manager Leased from Resurrection Mining Company	Gold Silver Lead Zinc	Leadville	3
WALCOTT LEASE Roy Walcott & Company 225 West 6th Street Leadville, Colorado Roy Walcott, Manager Leased from Resurrection Mining Company	Gold Silver Lead Zinc	Leadville	3

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
YAK TUNNEL Resurrection Mining Company Box 396 Leadville, Colorado B. B. Greenlee, Manager	Gold Silver Lead Zinc	Leadville	3

OPERATING MINES IN LARIMER COUNTY, 1952

BLACKHAWK MINE Cherokee Mines 122 South College Avenue Fort Collins, Colorado T. H. Sackett, Manager	Uranium	Fort Collins (Cherokee Park)	1
BUCKHORN MINING COMPANY MINE Buckhorn Mining Company 405 Wood Street Fort Collins, Colorado Sam Harris, Manager	Exploration and Development (Tungsten)	West of Fort Collins	1
LOOKOUT MINE Buckhorn Mining Company 405 Wood Street Fort Collins, Colorado Hubert Beisner, Manager	Tungsten	West of Fort Collins	1

OPERATING MINES IN MESA COUNTY, 1952

ARROWHEAD #10 & #11 Norman & George Wellman Grand Junction, Colorado Norman Wellman, Manager Leased from Climax Uranium Company	Uranium Vanadium	Gateway	4
ARROWHEAD #34, INCLINE #1 Climax Uranium Company Box 867 Grand Junction, Colorado Joe Weston, Manager of Mines	Uranium Vanadium	Gateway	4
ARROWHEAD #34, INCLINE #5 Al Rienderle 438 Sherman Drive Grand Junction, Colorado Al Rienderle, Manager Leased from Climax Uranium Company	Uranium Vanadium	Gateway	4
ARROWHEAD #34, INCLINE #6 Al Rienderle 438 Sherman Drive Grand Junction, Colorado Al Rienderle, Manager Leased from Climax Uranium Company	Uranium Vanadium	Gateway	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
ARROWHEAD #34, INCLINE #7 J. L. McCullah & Tex Hughes c/o Haynie & Hotchkiss Grand Junction, Colorado J. L. McCullah & Tex Hughes, Managers Leased from Climax Uranium Company	Uranium Vanadium	Gateway	4
BELMONT MINE Benjamin Zimmerman 1302 Main Street Grand Junction, Colorado Benjamin Zimmerman, Manager	Uranium Vanadium	Calamity-Mesa	4
BLUEBIRD MINE E. N. Jones c/o Leo Mullins Route 1, Fruitvale Grand Junction, Colorado E. N. Jones, Manager Leased from Climax Uranium Company	Uranium Vanadium	Calamity Mesa	4
CALAMITY #17 MINE Ralph Foster & Sons 1217 Colorado Avenue Grand Junction, Colorado Herbert W. Foster, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Calamity Mesa	4
CALAMITY #20 MINE R. C. Bishop Uravan, Colorado R. C. Bishop, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Calamity Mesa	4
CALAMITY #2, INCLINE #21 & #27 Vernon Lehr 1840 Elm Avenue Grand Junction, Colorado Vernon Lehr, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Calamity Mesa	4
CROW'S NEST Eugene Bonner Box 566 Palisade, Colorado Eugene Bonner, Manager Leased from Climax Uranium Company	Uranium Vanadium	Calamity Mesa	4
G-2 INCLINE Climax Uranium Company Box 867 Grand Junction, Colorado Desmond Peterson, Manager	Uranium Vanadium	Outlaw Mesa	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
HANSON #3 MINE Eugene Bonner Box 566 Palisade, Colorado Eugene Bonner, Manager Leased from Climax Uranium Company	Uranium Vanadium	Calamity Mesa	4
HIDDEN TREASURE MINE Brink & Rhymer Gateway, Colorado Albert L. Brink, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Calamity Mesa	4
JULY LEASE Eugene Bonner Box 566 Palisade, Colorado Eugene Bonner, Manager	Uranium Vanadium	Calamity Mesa	4
LA SAL MINE Beaver Mesa Mining Company Moab, Utah Fred Turner, Manager	Uranium Vanadium	John Brown District	4
LA SAL #1 & #2 MINE Lee Hetzel & Associates Clifton, Colorado Lee Hetzel, Manager	Uranium Vanadium	John Brown District	4
LUMSDEN #2 MINE Ivan W. Hall Box 212 Naturita, Colorado Ivan W. Hall, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	John Brown District	4
MATCHLESS MINE Glenn Zastrow Rifle, Colorado Glenn Zastrow, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Calamity Mesa	4
MESA #5 MINE Herbert W. Foster 1217 Colorado Avenue Grand Junction, Colorado Herbert W. Foster, Manager	Exploration and Development (Uranium and Vanadium)	Outlaw Mesa	4
MINERAL CHANNEL #10 MINE Ivan W. Hall Naturita, Colorado Ivan W. Hall, Manager Leased from Climax Uranium Company	Uranium Vanadium	Calamity Mesa	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
PACK RAT MINE J. B. Crowley Dove Creek, Colorado J. B. Crowley, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	John Brown District	4
PAY ROCK #14 MINE S. D. Moore & L. W. Schlecht P. O. Box 963 Grand Junction, Colorado L. W. Schlecht, Manager	Uranium Vanadium	Calamity Mesa	4
QUEEN OF THE HILLS MINE William Meese & George Charris Uravan, Colorado William Meese, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Calamity Mesa	4
RONNIE MINE C. L. Brown Box 243 Montrose, Colorado C. L. Brown, Manager	Uranium Vanadium	Outlaw Mesa	4
RONNIE #2 MINE Climax Uranium Company Box 867 Grand Junction, Colorado Richard White, Manager	Exploration and Development (Uranium and Vanadium)	Outlaw Mesa	4
SUNFLOWER MINE DeVar Shumway Blanding, Utah DeVar Shumway, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Calamity Mesa	4
YELLOWJACKET #2, SHAFT #8 L. O. Wattenbarger & C. H. Turner 741 Colorado Avenue Grand Junction, Colorado L. O. Wattenbarger & C. H. Turner, Managers Leased from Climax Uranium Company	Uranium Vanadium	Gateway	4
YELLOWJACKET #9 INCLINE Elmer Neilson Ridgway, Colorado Elmer Neilson, Manager Leased from Climax Uranium Company	Uranium Vanadium	Gateway	4

OPERATING MINES IN MINERAL COUNTY, 1952

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
EMPERIUS MINE Emperius Mining Company Creede, Colorado Eric Nelson, Manager EMPERIUS MILL (listed under Mills and Smelters)	Lead Zinc	Creede	3
GATEWAY MINE John VanBuskirk Creede, Colorado John VanBuskirk, Manager	Exploration and Development (Gold, Silver, Lead and Zinc)	Creede	3
MEXICO CLAIM T. O. C. Development Corporation Creede, Colorado Alvie Wintz, Manager	Lead Zinc Silver Gold	East Willow Creek	3
PHOENIX MINE Outlet Mining Company Creede, Colorado John Jackson, Manager	Lead Silver Gold	Creede	3
RIO GRANDE CLAIM Rio Grande Mining Company Creede, Colorado Eric Nelson, Manager	Exploration and Development (Lead and Zinc)	East Willow Creek	3

OPERATING MINES IN MONTROSE COUNTY, 1952

BIG BULL MINE Vanadium Corporation of America Durango, Colorado D. W. Viles, Vice Pres. & Gen. Manager R. L. Anderson, Mine Superintendent	Uranium Vanadium	Bull Canyon	4
BITTER CREEK MINE Booth Eckman Box 163 Naturita, Colorado Booth Eckman, Manager Leased from Vanadium Corp. of America	Uranium Vanadium	Naturita	4
BLACK ROCK MINE L. Ross & H. Bennett Placerville, Colorado L. Ross, Manager Leased from Vanadium Corp. of America	Exploration and Development (Uranium and Vanadium)	Uravan	4
BUCKHORN #1 SHAFT Clyde Wright Paradox, Colorado Clyde Wright, Manager	Uranium Vanadium	Carpenter Ridge	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
BUCKHORN #1, SHAFT #2 Smith, Jensen & Davis c/o M. C. Smith Moab, Utah M. C. Smith, Manager	Uranium Vanadium	Carpenter Ridge	4
C. F. C. MINE Joseph C. Pitt Uravan, Colorado Joseph C. Pitt, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Long Park District	4
CLIFF DWELLER MINE Vanadium Corporation of America Durango, Colorado D. W. Viles, Vice Pres. & Gen. Manager R. L. Anderson, Mine Superintendent	Uranium Vanadium	Uravan	4
COLCRADIUM MINE Jack & Louis Peiffer Naturita, Colorado Jack Peiffer, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Long Park District	4
DOLORES MINE Tom VanArsdale Uravan, Colorado Tom VanArsdale, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Hydraulic District	4
DONALD L MINE Milton Castor Naturita, Colorado Milton Castor, Manager Leased from Vanadium Corporation of America	Uranium Vanadium	Long Park District	4
DUSTY MINE Vanadium Corporation of America Durango, Colorado D. W. Viles, Vice Pres. & Gen. Manager R. L. Anderson, Mine Superintendent	Uranium Vanadium	Long Park District	4
EAST OPRA BOX MINE M. J. Rexroad & C. N. Athey Naturita, Colorado M. J. Rexroad, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	East Paradox	4
FAWN SPRING #9 MINE A. F. Skella Uravan, Colorado A. F. Skella, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Bull Canyon	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
FAWN SPRING #12 MINE Glenn Neesham Nucla, Colorado Glenn Neesham, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Bull Canyon	4
FOX MINE Sturdavant & Williams Box 274 Naturita, Colorado Dale Sturdavant, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Hydraulic District	4
GOVERNMENT BLOCK #6 M. A. Barkley & Company Box 94 Uravan, Colorado M. A. Barkley, Manager Leased from A. E. C.	Exploration and Development (Uranium and Vanadium)	Club Mesa	4
GRASS ROOTS MINE Neilson & Washburn Uravan, Colorado Hans Neilson, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Uravan	4
HAPPY THOUGHT MINE A. F. Skalla Uravan, Colorado A. F. Skalla, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	East Paradox	4
HENRY CLAY #2 MINE John Morrill Uravan, Colorado John Morrill, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Long Park District	4
HIDDEN BASIN MINE Roy Reed Nucla, Colorado Roy Reed, Manager Leased from Vanadium Corporation of America	Uranium Vanadium	Long Park District	4
HONEYMOON MINE R. C. Bishop Uravan, Colorado R. C. Bishop, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Uravan	4
HUMMER MINE Lowell Staats Nucla, Colorado Lowell Staats, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Naturita	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
J. J. MINE Henry O. Lehr Route 1 Grand Junction, Colorado Henry O. Lehr, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	West Paradox	4
JOE DANDY MINE J. R. Ford Naturita, Colorado J. R. Ford, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	East Paradox	4
LA SALLE SHAFT LaSalle Mining Company Uravan, Colorado M. P. Rowe, Manager Leased from A. E. C.	Uranium Vanadium	Uravan	4
LAST CHANCE #4 MINE Otis Dibler Norwood, Colorado Otis Dibler, Manager	Uranium Vanadium	Carpenter Ridge	4
LITTLE BASIN MINE Harold Kincade Box 74 Uravan, Colorado Harold Kincade, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Uravan	4
LITTLE DICK MINE Frank Elder Telluride, Colorado Frank Elder, Manager Leased from U. S. Vanadium Company	Exploration and Development (Uranium and Vanadium)	Uravan	4
LONG PARK #6 MINE E. T. Holderman Uravan, Colorado E. T. Holderman, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Long Park District	4
LONG PARK #10 MINE George Barnes Naturita, Colorado George Barnes, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Long Park District	4
MAGGIE C MINE G. E. Castor & Associates Nucia, Colorado G. E. Castor, Manager Leased from Vanadium Corporation of America	Exploration and Development (Uranium and Vanadium)	Long Park District	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
MILL #1 MINE Neilson & Washburn Uravan, Colorado Hans Neilson, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Uravan	4
MILL #2 MINE Joe & M. Jabernick & Arthur Borgeson Box 484 Uravan, Colorado Joe Jabernick, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Uravan	4
MINERAL JOE INCLINE Fred Richards & Paul Willoby Nucla, Colorado Fred Richards, Manager Leased from Climax Uranium Company	Uranium Vanadium	Monogram District	4
NORTH HUMMER MINE Clarence Fay & Wesley Moulton Naturita, Colorado Clarence Fay, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Monogram District	4
NORTH STAR MINE Vanadium Corporation of America Durango, Colorado D. W. Viles, Vice Pres. & Gen. Manager R. L. Anderson, Mine Superintendent	Uranium Vanadium	Uravan	4
OPHIR #1 & #2 MINES R. Lester Sage Box 156 Nucla, Colorado R. Lester Sage, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Uravan	4
OVERSIGHT MINE William Barnett Uravan, Colorado William Barnett, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	East Paradox	4
PADDY #4 MINE Utah Uranium Corporation Box 285 Naturita, Colorado Roy Bluff, Manager	Uranium Vanadium	Bull Canyon	4
PADDY #5 MINE Utah Uranium Corporation Box 285 Naturita, Colorado Roy Bluff, Manager	Uranium Vanadium	Bull Canyon	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
PRODUCTION MINE Johnson & Kruse Nucla, Colorado H. C. Kruse, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Long Park District	4
REPUBLICAN MINE Vanadium Corporation of America Durango, Colorado Eugene Bartley, Manager	Uranium Vanadium	Long Park District	4
RESERVATION BLOCK #1 Bunker & Company Naturita, Colorado Phillip Bunker, Manager Leased from A. E. C.	Uranium Vanadium	Long Park District	4
RIM ROCK MINE W. P. Jones & C. L. Mikesell Blanding, Utah W. P. Jones, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Bull Canyon	4
RIM ROCK BLUES #2 MINE K. M. & D. K. Andrews Nucla, Colorado Donald K. Andrews, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Bull Canyon	4
RIM ROCK BLUES #5 MINE W. W. Brunke & D. C. McDougald, Jr. Moab, Utah W. W. Brunke, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Bull Canyon	4
SAINT PATRICK MINE Clarence Neilson Uravan, Colorado Clarence Neilson, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Uravan	4
SPHINX MINE Alf Karo Nucla, Colorado Alf Karo, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Uravan	4
STARLIGHT MINE J. R. Simplot Company Box 912 Pocatello, Idaho Louis Gaggini, Manager	Uranium Vanadium	Bull Canyon	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
STARLIGHT #8 MINE J. R. Simplot Company Box 912 Pocatello, Idaho Louis Gaggini, Manager	Uranium Vanadium	Bull Canyon	4
SUNRISE MINE Utah Uranium Corporation Box 285 Naturita, Colorado Roy Bluff, Manager	Uranium Vanadium	Bull Canyon	4
SUNRISE #3 MINE Utah Uranium Corporation Box 285 Naturita, Colorado Roy Bluff, Manager	Uranium Vanadium	Bull Canyon	4
T. N. T. MINE Tim Fisher Nucla, Colorado Tim Fisher, Manager Leased from Vanadium Corporation of America	Exploration and Development (Uranium and Vanadium)	Long Park District	4
TRAMP MINE E. E. Walker Blanding, Utah E. E. Walker, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Uravan	4
TRIANGULATION MINE D. C. Bunker & R. D. Johnson Nucla, Colorado D. C. Bunker, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Long Park District	4
TRIPOD MINE Charles & Elmer Flewelling Box 905 Uravan, Colorado J. W. Hill, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Long Park District	4
VANADIUM KING MINE O. E. Smart & C. Crandall Redvale, Colorado O. E. Smart, Manager Leased from Vanadium Corporation of America	Exploration and Development (Uranium and Vanadium)	Long Park District	4
VIRGIN #3 SHAFT Oscar Cerny Box 408 Uravan, Colorado Oscar Cerny, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Uravan	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
WEST OPRA BOX O. C. Clark & Associates Naturita, Colorado O. C. Clark, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	East Paradox	4
WILD STEER MINE Vanadium Corporation of America Durango, Colorado D. W. Viles, Vice Pres. & Gen. Manager R. L. Anderson, Mine Superintendent	Uranium Vanadium	East Paradox	4
YELLOWJACKET MINE H. J. Neilson & L. L. Washburn Uravan, Colorado L. L. Washburn, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Uravan	4
ZEBRA MINE W. P. Jones & C. L. Mikesell Blanding, Utah C. L. Mikesell, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Bull Canyon	4

OPERATING MINES IN OURAY COUNTY, 1952

ASPEN TUNNEL John Martin Box 263 Ouray, Colorado John Martin, Manager	Lead Zinc	Iron-ton	4
BROWN MOUNTAIN MARKEY DRIFT Don Spencer & Associates Ouray, Colorado Don Spencer, Manager	Gold Silver Lead Zinc	Red Mountain District	4
CAMP BIRD MINE King Lease, Incorporated Ouray, Colorado Linn D. Barry, Manager CAMP BIRD MILL (listed under Mills & Smelters)	Gold Silver Lead Zinc Copper	Ouray	4
DUNMORE MINE Harold Williams & William Brewster Ouray, Colorado Harold Williams, Manager	Exploration and Development (Lead, Silver, Zinc and Wolframite)	Red Mountain District	4
GOVERNOR MINE Zanett Lease Ouray, Colorado Fred Zanett, Manager	Exploration and Development (Gold, Silver, Lead and Zinc)	Sneffels District	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
KENTUCKY GIANT MINE Silver Tip-Gold Crown M. & M. Co. Ouray, Colorado George C. Hicks, Manager	Exploration and Development (Gold, Silver, Lead and Zinc)	Red Mountain District	4
MICHAEL BREEN MINE Joe & Sam Fellin Ouray, Colorado Joe Fellin, Manager	Lead Zinc	Poughkeepsie	4
OLD MINERAL FARM MINE John Crim Ouray, Colorado John Crim, Manager	Silver Lead	Red Mountain District	4
OLD SMOKY MINE Frank E. Wilbur Ouray, Colorado Frank E. Wilbur, Manager	Silver Lead Zinc	Poughkeepsie	4
PATSY-BROWN MOUNTAIN-LOST DAY MINE Earl Alexander Box 33 Ouray, Colorado Earl Alexander, Manager	Silver Lead	Ironton	4
REVENUE MINE Revenue Mines Company Box 545 Ouray, Colorado M. C. Dann, Manager	Exploration and Development (Gold, Silver, Lead and Zinc)	Sneffels District	4
RUBY TRUST MINE Francis Cons. M. & M. Corp. 2100 Spence Place Knoxville, Tennessee W. C. Francis, Manager	Silver Gold Fluorspar	Paguin District	4
SYRACUSE TUNNEL Bachelor Development Company Ouray, Colorado J. R. Sonza, Manager	Lead Copper Zinc	Ouray	4
TREASURY TUNNEL Idarado Mining Company Ouray, Colorado John S. Wise, Manager IDARADO MILL (listed under Mills & Smelters)	Lead Copper Zinc	Ouray	4
UPPER BACHELOR MINE Bachelor Development Company Ouray, Colorado J. R. Sonza, Manager	Silver Gold Lead Zinc	Paguin District	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
YELLOW ROSE MINE Yellow Rose Leasing Company Ouray, Colorado Keith Johnson, Manager	Gold Silver Lead Zinc Copper	Sneffels District	4

OPERATING MINES IN PARK COUNTY, 1952

BETTY MINE East Slope Mining Company 315 East Pikes Peak Avenue Colorado Springs, Colorado C. E. Bazley, Manager	Copper Zinc	Giffey	2
BUCKSKIN JOE MINE Buckskin Joe Mines Limited Alma, Colorado Charles W. Jordan, Manager	Zinc Gold Silver Lead Copper	Alma	2
DAUNTLESS TUNNEL Leadville Lead Corporation 500 E. & C. Building Denver, Colorado E. W. Van Costen, Manager	Exploration and Development (Lead, Zinc, and Silver)	Horseshoe District	2
HARRISBURG MINE Snell Metals Company Fairplay, Colorado E. L. Snell, Manager	Zinc	Mineral Gulch	2
LING GROUP Cordillera Corporation Box 61 Fairplay, Colorado N. Harry Dunn, Manager	Exploration and Development (Gold, Copper and Silver)	North Star Mountain	2

OPERATING MINES IN PITKIN COUNTY, 1952

SMUGGLER MINE Herron Brothers Aspen, Colorado William Herron, Manager HERRON BROTHERS MILL (listed under Mills & Smelters)	Zinc Lead Silver	Aspen	3
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OPERATING MINES IN RIO BLANCO COUNTY, 1952

BROWN, MARVINE #10, & SHYLO CLAIM J. C., C. F., L. E., & D. J. Devereaux Box 373 Meeker, Colorado Daniel J. Devereaux, Manager	Uranium Vanadium	Meeker	3
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<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
BURRELL NO. 1 MINE Tungsten & Uranium, Incorporated 1101 South West 5th Avenue Portland 4, Oregon Quinn Burrell, Manager	Uranium Vanadium	Meeker	3
LAST DAY MINE Mountain States Uranium Corporation Box 929 Bishop, California A. K. Wilson, Jr., Manager	Uranium Vanadium	Meeker	3
MIDNIGHT MINE #1 Ray Hasselbush & Henry Zieseniss Box 149 Rifle, Colorado Ray Hasselbush, Manager	Uranium Vanadium	Meeker	3

OPERATING MINES IN SAGUACHE COUNTY, 1952

ANTORO MINE S. E. & W. E. Burleson Box 209 Salida, Colorado John Carey, Manager	Copper Silver Lead Zinc Gold	Bonanza	3
COMMANDER MINE Commander Mining & Milling Company Box 779 Alamosa, Colorado Olle Olson, Manager	Exploration and Development (Lead, Gold, Zinc and Silver)	Simmons Gulch	3
CORA CLAIM Walter Timney 811 Shetland Road Las Vegas, Nevada Gus Erickson & Pete Wallen, Managers	Lead Zinc	Rawley Gulch	3
LA GARITA MINES La Garita Mines Box 61 La Garita, Colorado Ted Biddle, Manager LA GARITA MILL (listed under Mills & Smelters)	Gold	Crystal Hill	3
LITTLE JENNY MINE Johnston Mining Company Bonanza, Colorado Buster Johnston, Manager	Copper Silver Lead Zinc	Rawley Mountain	3

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
RAWLEY MINE William J. Costello Bonanza, Colorado William J. Costello, Manager	Copper Silver Lead Zinc	Rawley Mountain	3
SAMMY BOY MINE Robert S. Ferraro 1347 G Street Salida, Colorado Robert S. Ferraro, Manager	Exploration and Development (Manganese)	Rawley Gulch	3
VILLA GROVE TURQUOISE LODGE Villa Grove Turquoise Lode Villa Grove, Colorado M. C. Winfield, Manager	Turquoise	Villa Grove	3

OPERATING MINES IN SAN JUAN COUNTY, 1952

BLACK HAWK MINE U. S. Metals Corporation Silverton, Colorado Walter Bently, Manager	Exploration and Development (Gold, Silver, Zinc, Lead and Copper)	Silverton	4
BONITA MINE Bonita Mining & Developing Co., Inc. Box 186 Silverton, Colorado H. P. Ehrlinger, Manager	Exploration and Development (Lead and Zinc)	Gladstone	4
BURROWS MINE H. G. Knapp & Associates Silverton, Colorado Kenneth Knapp, Manager	Silver Lead Zinc	Animas Forks	4
CALEDONIAN MINE American Zinc, Lead & Smelting Co. 1600 Paul Brown Building St. Louis, Missouri William Klein, Manager	Lead Zinc	Eureka District	4
COLUMBUS MINE Claud Robinson Silverton, Colorado Claud Robinson, Manager	Gold Silver Lead Zinc Copper	Animas Forks	4
COLUMBUS #2 LEVEL Claud Robinson Silverton, Colorado Claud Robinson, Manager	Gold Silver Lead Zinc Copper	Animas Forks	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
GALENA QUEEN MINE Galena Leasing Company Silverton, Colorado Glenn Gardner, Manager	Gold Silver Lead Zinc Copper	Red Mountain	4
GARRY OWEN MINE Old Hundred Gold Mining Company Box 448 Silverton, Colorado W. G. Sandell, Manager	Gold Silver Lead Zinc Copper	Eureka	4
GOLD PRINCE MINE Ventures Leasing Company Silverton, Colorado William Genetto, Manager GOLD PRINCE MILL (listed under Mills & Smelters)	Exploration and Development (Gold, Silver, Lead and Zinc)	Silverton	4
GRAYSILL GROUP #1,3,4,8 & 9 Vanadium Corporation of America Durango, Colorado D. W. Viles, Vice Pres. & Gen. Manager R. L. Anderson, Mine Superintendent	Uranium Vanadium	Hermosa Creek	4
GREAT EASTERN MINE Great Eastern Mining Company Silverton, Colorado Carl Larson, Manager	Gold Silver Lead Copper Zinc	Eureka	4
GREEN MOUNTAIN DUMP Pride of the West, Incorporated Silverton, Colorado Carl A. Larson, Manager	Gold Silver Lead Zinc	Silverton	4
GREEN MOUNTAIN MINE Pride of the West, Incorporated Silverton, Colorado Carl A. Larson, Manager	Gold Silver Lead Zinc Copper	Silverton	4
HENRIETTA MINE U. S. Metals Corporation 210 Mercantile Building Denver, Colorado J. Cameron Grant, Manager	Silver Lead Zinc Copper	Red Mountain	4
INDEPENDENCE GROUP J. White & William Brown Silverton, Colorado Robert Boyle, Manager	Exploration and Development (Gold, Silver, Lead, Zinc and Copper)	Middle Fork	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
KANSAS CITY MINE Graham, Olsen & Mertz Silverton, Colorado Sam S. Graham, Manager	Gold Silver Lead Zinc	Gladstone	4
LEAD CARBONATE MINE Bonita Mining & Developing Company Box 186 Silverton, Colorado H. P. Ehrlinger, Manager LEAD CARBONATE MILL (listed under Mills & Smelters)	Gold Silver Lead Zinc Copper	Eureka	4
LITTLE NATION MINE C. K. Orton & Associates Silverton, Colorado Claud Robinson, Manager	Silver Lead Zinc Copper	Pride Mill	4
LONDON MINE William Erickson Silverton, Colorado William Erickson, Manager	Gold Silver Lead Zinc Copper	Animas Forks	4
MAY DAY MINE Ennis Cole Silverton, Colorado Ennis Cole, Manager	Gold Silver Lead Zinc Copper	Red Mountain District	4
OHIO MINE Williams & Walby Silverton, Colorado Harry Williams & Ed Walby, Managers YUKON MILL (listed under Mills & Smelters)	Hubnerite Tungsten	Silverton	4
OSCEOLA MINE T. S. Hadden & W. R. Arthur Silverton, Colorado T. S. Hadden, Manager	Silver Lead Zinc Copper	Silverton	4
PRIDE OF THE WEST MINE Pride of the West, Inc. Silverton, Colorado Carl Larson, Manager	Gold Silver Lead Zinc Copper	Galena	4
SHENANDOAH - DIVES MINE Shenandoah-Dives Mining Company Silverton, Colorado Charles A. Chase, Vice Pres. & Gen. Manager MAYFLOWER MILL (listed under Mills & Smelters)	Gold Silver Lead Zinc Copper	Silverton	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
SILVER QUEEN MINE Moreno-Cripple Creek Corporation 502 Symes Building Denver, Colorado Hobart Hubbard, Manager	Exploration and Development (Gold, Silver, Lead and Zinc)	Treasure Mountain	4
THELMA MINE Paul Hoffman & Associates Silverton, Colorado Paul Hoffman, Manager	Gold Silver Lead Zinc	Silver Ledge	4
TREASURE MOUNTAIN MINE Treasure Mountain Gold Mining Co. 801 Midland Savings Building Denver, Colorado Merle Lloyd, Manager	Gold Silver Lead Zinc	Eureka	4

OPERATING MINES IN SAN MIGUEL COUNTY, 1952

ANDREWS MINE The Eastridge Company 1801 Wilshire Boulevard Los Angeles, California Fred Moldenhaur, Manager	Gold Silver Lead Zinc	Black Bear Portal	4
ANN #1 INCLINE William Robbins & George Parker Dove Creek, Colorado William Robbins, Manager Leased from A. E. C.	Uranium Vanadium	Slick Rock District	4
BALD EAGLE MINE Dulaney Mining Company First National Bank Building Grand Junction, Colorado Leroy Hemphill, Manager	Uranium Vanadium	Lower San Miguel	4
BARKLEY LEASE Max Barkley & Company Cortez, Colorado Max Barkley, Manager Leased from A. E. C.	Uranium Vanadium	Slick Rock District	4
BEAR CREEK MINE Lawrence Ross & Harry Bennett Placerville, Colorado Lawrence Ross, Manager Leased from Vanadium Corporation of America	Uranium Vanadium	Upper San Miguel	4
BLACK JACK MINE Black Jack Mining Company Box 625 Cortez, Colorado L. B. Maynes, Manager	Exploration and Development (Uranium and Vanadium)	Legin Group	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
BLACK KING MINE Bachelor Corporation Placerville, Colorado Roscoe Riddle, Manager BACHELOR MILL (listed under Mills & Smelters)	Uranium Vanadium	Upper San Miguel	4
BOB TAIL MINE Idarado Mining Company Ouray, Colorado William Nelson, Manager	Exploration and Development (Gold, Silver, Lead and Zinc)	Telluride	4
BURROW POINT MINE R. E. Williams Box 25 Norwood, Colorado R. E. Williams, Manager	Uranium Vanadium	Bull Canyon	4
BUTTERFLY MINE Delbert McClusky & Associates Telluride, Colorado A. M. McClusky, Manager	Exploration and Development (Gold, Silver, Lead and Zinc)	Trout Lake	4
A. H. CANFIELD MINE A. H. Canfield & Associates Box 84 Dove Creek, Colorado A. H. Canfield, Manager Leased from A. E. C.	Uranium Vanadium	Slick Rock District	4
CARBONERO MINE Silver Bell Mines Ophir, Colorado A. A. Smith, Manager	Gold Silver Lead Zinc	Ophir	4
COUGER GROUP Henry Holling Box 7 Egnar, Colorado Henry Holling, Manager Leased from A. E. C.	Uranium Vanadium	Slick Rock District	4
ELOUISA INCLINE W. R. McCormick Dove Creek, Colorado W. R. McCormick, Manager Leased from A. E. C.	Uranium Vanadium	Slick Rock District	4
FALCON MINE Frank & Kenneth Charles Ridgway, Colorado Frank Charles, Manager Leased from A. E. C.	Uranium Vanadium	Slick Rock District	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
FALL CREEK MINE C. Andress & Loyde Smith Placerville, Colorado Clyde Andress, Manager Leased from Vanadium Corporation of America	Uranium Vanadium	Upper San Miguel	4
FRENCHY RIM MINE Ortmayer Mining Company 1037 Ouray Avenue Grand Junction, Colorado W. E. Haldane, Manager Leased from A. E. C.	Uranium Vanadium	Slick Rock District	4
GORGETO MINE Jack C. Turner Moab, Utah Joe Dowd, Manager Leased from A. E. C.	Uranium Vanadium	Slick Rock District	4
HELEN CLAIM Grover Williams Uravan, Colorado Grover Williams, Manager Leased from A. E. C.	Uranium Vanadium	Slick Rock District	4
JAPAN FLORA MINE Frank George & Associates Ouray, Colorado Frank George, Manager	Lead Silver Zinc Gold Copper	Upper San Miguel	4
JUPITER MINE John Ledlow Naturita, Colorado John Ledlow, Manager Leased from Vanadium Corporation of America	Uranium Vanadium	Egnar	4
KING INCLINE Ortmayer Mining Company 1037 Ouray Avenue Grand Junction, Colorado W. E. Haldane, Manager Leased from A. E. C.	Uranium Vanadium	Slick Rock District	4
KING #2, INCLINE #1 & #2 Skidmore Mining Company Dove Creek, Colorado Norman Ebbley, Manager Leased from A. E. C.	Uranium Vanadium	Slick Rock District	4
KING #2, INCLINE #4 Skidmore Mining Company Dove Creek, Colorado Norman Ebbley, Manager Leased from A. E. C.	Uranium Vanadium	Slick Rock District	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
KING #2, INCLINE #3 S & K Skidmore Mining Company Dove Creek, Colorado Norman Ebbley, Manager Leased from A. E. C.	Uranium Vanadium	Slick Rock District	4
LITTLE JIMMY MINE James Dalpaz Telluride, Colorado James Dalpaz, Manager	Exploration and Development (Gold, Silver, Lead and Zinc)	Telluride	4
LONG RIDGE MINE J. L. McCullah & B. M. Byler c/o Home Market Redvale, Colorado J. L. McCullah, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Lower San Miguel	4
MC CORMICK SHAFT William R. McCormick Dove Creek, Colorado William R. McCormick, Manager Leased from A. E. C.	Uranium Vanadium	Legin Group	4
MAIN STREET MINE #3 Homer N. Rosenquist & Associates Box 223 Naturita, Colorado Homer N. Rosenquist, Manager	Uranium Vanadium	Bull Canyon	4
MAY MINE Haldane & Bronson Egnar, Colorado W. E. Haldane, Manager Leased from A. E. C.	Uranium Vanadium	Slick Rock District	4
MELDRUM TUNNEL Idarado Mining Company Ouray, Colorado John S. Wise, General Manager William Nelson, Superintendent	Gold Silver Lead Zinc	Telluride	4
MESA #1 MINE Walter Duncan, Jr. Box 1468 Cortez, Colorado Charles R. Butler, Manager	Uranium Vanadium	Little Gyp	4
MICHAEL BRAY MINE Lewis Risenhoour Dove Creek, Colorado Lewis Risenhoour, Manager Leased from A. E. C.	Uranium Vanadium	Slick Rock District	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
O'NEIL RADIUM GROUP Dulaney Mining Company 312 First National Bank Building Grand Junction, Colorado Leroy Hemphill, Manager	Uranium Vanadium	Slick Rock District	4
POND MINE J. L. McCullah & B. M. Byler c/o Home Market Redvale, Colorado J. L. McCullah, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Big Gyp	4
RESERVATION MINE Lubbock Mining Company Cortez, Colorado T. V. Brammlet, Manager	Exploration and Development (Uranium and Vanadium)	Legin Group	4
SILVER BELL MINE Silver Bell Mining Company Ophir, Colorado A. A. Smith, Manager SILVER BELL MILL (listed under Mills & Smelters)	Lead Zinc Silver Tungsten	Telluride	4
SMUGGLER MINE Telluride Mines, Incorporated Telluride, Colorado C. F. Parker, Jr., Manager	Gold Zinc Lead Silver	Telluride	4
TELLURIDE MILL TUNNEL Telluride Mines, Incorporated Telluride, Colorado C. F. Parker, Jr., Manager TELLURIDE MINES MILL (listed under Mills & Smelters)	Gold Silver Lead Zinc	Telluride	4
TWO BAR MINE J. L. McCullah & B. M. Byler c/o Home Market Redvale, Colorado J. L. McCullah, Manager Leased from U. S. Vanadium Company	Uranium Vanadium	Lower San Miguel	4
VETA WAD MINE Allen Hopkins Egnar, Colorado Allen Hopkins, Manager Leased from A. E. C.	Uranium Vanadium	Slick Rock District	4

OPERATING MINES IN SUMMIT COUNTY, 1952

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
ALLEN EMORY MINE B. R. C. Mining Company Box 16 Idaho Springs, Colorado Fred W. Brooks, Manager	Lead Zinc	Montezuma	1
BULLION MINE Rhine & Goodman 930 17th Street Denver, Colorado A. R. Rhine, Manager	Exploration and Development (Lead, Silver and Zinc)	Montezuma	1
CHATAUQUA MINE Sally Barber Mining Company Box 158 Breckenridge, Colorado Mike Vinson, Manager CHATAUQUA MILL (listed under Mills & Smelters)	Lead Zinc Silver	Montezuma	1
COLONEL SELLERS MINE Hayutin & Hayutin 2239 East Colfax Avenue Denver, Colorado Hayutin & Hayutin, Managers	Lead Zinc Silver	Kokomo	1
CONNOR'S MINE Elk Ridge Mining Company Kokomo, Colorado Harold F. Kane, Manager	Exploration and Development (Gold, Silver, Lead and Zinc)	Kokomo	1
GENERAL TELLER MINE General Teller Mines 2550 Yarrow Denver, Colorado A. R. Rhine, Manager	Exploration and Development (Silver and Lead)	Montezuma	1
IDA BELLE MINE Ida Belle Mine Dillon, Colorado W. M. Kirshmer, Manager	Lead Zinc Silver	Dillon	1
MANERVA MINE Leo Wells Dillon, Colorado Leo Wells, Manager	Lead Zinc Silver Gold	Montezuma	1
NEW RECRUIT MINE Elmer Josephson & Associates Evergreen, Colorado Elmer Josephson, Manager	Exploration and Development (Gold and Silver)	Montezuma	1

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
PAYMASTER MINE Sterling P. True Box 34 Breckenridge, Colorado Sterling P. True, Manager	Lead Zinc	Montezuma	1
PITTSBURG MINE M. K. Gaymon & James P. Webb Construction Company Breckenridge, Colorado M. K. Gaymon, Manager	Exploration and Development (Gold, Silver, Lead and Zinc)	Breckenridge	1
QUAIL MINE John Jeffrey Montezuma, Colorado John Jeffrey, Manager	Lead Silver	Montezuma	1
QUEEN OF THE WEST MINE Ivanhoe Trust Company Kokomo, Colorado L. Deay-Reusch, Manager	Exploration and Development (Lead, Zinc, Gold and Silver)	Kokomo	1
RADICAL MINE I. A. Taylor Leadville, Colorado I. A. Taylor, Manager	Lead Silver	Montezuma	1
SAINT JOHN MINE Florado Mining Company Montezuma, Colorado Elvin C. Oelrich, Manager	Lead Silver	Montezuma	1
SILVER CLOUD MINE Clyde Recen & C. J. St. Peters 118 South Hooker Denver, Colorado Clyde Recen, Manager	Lead Silver	Kokomo	1
SUPERIOR MINE United States Lead Corporation Montezuma, Colorado S. I. Rusinow, Manager	Exploration and Development (Lead, Zinc, and Silver)	Montezuma	1
WELLINGTON MINE W. L. Davenport Box 192 Breckenridge, Colorado W. L. Davenport, Manager	Lead Zinc	Breckenridge	1
WILFLEY MINE York Investment Company 2239 East Colfax Denver, Colorado Carl Engberts & Roy Hoher	Lead Zinc	Kokomo	1

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
YUKON MINE James Odell Buena Vista, Colorado James Odell, Manager	Exploration and Development (Gold, Silver, Lead and Zinc)	Kokomo	1
OPERATING MINES IN TELLER COUNTY, 1952			
AJAX MINE Golden Cycle Corporation Box 127 Cripple Creek, Colorado C. H. Carlton, Manager of Mines	Gold	Victor	2
AJAX #2 MINE Gold Coin Mines, Incorporated Cripple Creek, Colorado Troy E. Wade, Manager	Gold	Squaw Mountain	2
CARBONATE QUEEN MINE Acme Mining Company 156 Montgomery Street San Francisco, California Ryvers Galligher, Manager	Exploration and Development (Gold)	Cripple Creek	2
CHICAGO TUNNEL Globe Hill Mining Company 333 Independence Building Colorado Springs, Colorado A. S. Konselman, General Manager Harry Allen, Superintendent	Gold	Globe Hill	2
CRESSON MINE Cresson Consolidated Gold M. & M. Co. Box 127 Cripple Creek, Colorado C. H. Carlton, Manager of Mines	Gold	Raven Hill	2
DEADWOOD MINE Deadwood Leasing Company Cripple Creek, Colorado Lloyd Stoner, Manager	Gold	Bull Hill	2
FOREST QUEEN SHAFT Champion Mines Company 941 Monroe Street Denver, Colorado Jesse Simmons, Manager	Gold	Ironclad Hill	2
GOLD KING MINE Cripple Creek Mining & Milling Co. Box 247 Cripple Creek, Colorado R. B. Walls, Manager	Gold	Cripple Creek	2

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
GRACE GREENWOOD MINE Le Clair Consolidated Mines Co. Box 127 Cripple Creek, Colorado C. H. Carlton, Manager of Mines	Gold	Gold Hill	2
ISABELLA MINE Isabella Mines, Incorporated Cripple Creek, Colorado James Keener, Manager	Gold	Victor	2
JOE DANDY MINE Joe Dandy Mining Company Independence Building Colorado Springs, Colorado A. S. Konselman, Manager	Gold	Raven Hill	2
LITTLE MAY MINE John Robush & Company Box 205 Cripple Creek, Colorado Earl Robush, Manager	Gold	Beacon Hill	2
MOLLY KATHLEEN MINE Markley Mines & Exp. Company Cripple Creek, Colorado Lee Brown, Manager	Gold	Cripple Creek	2
E. PORTER GOLD KING MINE Doepke Mining Company 2431 N. Nevada Colorado Springs, Colorado Frank Doepke, Manager	Exploration and Development (Gold)	Cripple Creek	2
RUBIE MINE Canyon Gold, Incorporated 209 E. Bennett Avenue Cripple Creek, Colorado Troy E. Wade, Manager	Gold	Cripple Creek	2
STRONG MINE Front Range Mines, Incorporated 405 Burns Vault Denver, Colorado Gus Ronning, Manager	Gold	Victor	2
VINDICATOR MINE United Gold Mines Box 127 Cripple Creek, Colorado C. H. Carlton, Manager of Mines	Gold	Bull Hill	2

OPERATING QUARRIES AND CLAY MINES, 1952

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
<u>BOULDER COUNTY</u>			
INGERSOLL QUARRY University of Colorado Boulder, Colorado Raymond W. Lind, Manager	Sandstone	Lyons	1
RED STONE QUARRY Colorado Stone Company 1645 North Main Longmont, Colorado L. D. Stennette, Manager	Sandstone	Lyons	1
RUSKI QUARRY Denver Rock Veneer Company 605 West Colfax Avenue Denver, Colorado J. F. Sharp, Manager	Sandstone	Lyons	1
SAINT VRAIN QUARRY Brodie Brothers Lyons, Colorado Mrs. C. C. Brodie, Manager	Sandstone	Lyons	1
SUMMERS QUARRY Dewey Summers Lyons, Colorado Carl M. Pfeifer, Manager	Sandstone	Lyons	1
WHITE STONE QUARRY Jess Vickery Box 163 Lyons, Colorado Jess Vickery, Manager	Sandstone	Lyons	1
<u>CHAFFEE COUNTY</u>			
CALCIUM QUARRY Calcium Company Box 586 Salida, Colorado Carl Harvey, Manager CALCIUM COMPANY MILL (listed under Mills & Smelters)	Calcium	Salida	3
CRYSTAL STONE PLACER QUARRY Colorado Granite Company Salida, Colorado John Hershberger, Manager COLORADO GRANITE FINISHING PLANT (listed under Mills & Smelters)	Granite	Cameron Mountain Ute Trail	3

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
MONARCH LIME QUARRY Colorado Fuel & Iron Corporation P. O. Box 316 Pueblo, Colorado James Whitney, Manager MONARCH CRUSHING PLANT (listed under Mills & Smelters)	Limestone	Salida	3
MOUNT PRINCETON GRANITE QUARRY Calcium Company Box 586 Salida, Colorado Carl Harvey, Manager	Granite	Chalk Creek	3
SODA SPAR QUARRY M. & S., Incorporated Box 671 Salida, Colorado Ralph Magnuson, Manager WESTERN FELDSPAR MILL (listed under Mills & Smelters)	Feldspar	Salida	3
WARNER'S QUARRY J. N. Warner Memorial Service Rainbow Building Salida, Colorado J. N. Warner, Manager	Rough Blue Granite	Cameron Mountain District	3
<u>STILLA COUNTY</u>			
HILL QUARRY Colorado Aggregate Company, Inc. Mesita, Colorado George M. Oringdulph, Manager	Scoria	Mesita	3
<u>STER COUNTY</u>			
GREENE QUARRY Alexite Engineering Company Alexander Film Building Colorado Springs, Colorado Ray Ebeling, Manager FLORENCE MILL (listed under Mills & Smelters)	Perlite	Rosita	2
WILFLEY - ARNOLD QUARRY Alexite Engineering Company Alexander Film Building Colorado Springs, Colorado W. F. Arnold, Manager	Perlite	Westcliffe	2

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
<u>DOUGLAS COUNTY</u>			
HELMER CLAY & LIMESTONE QUARRY T. L. & George Helmer Box 94 Littleton, Colorado T. L. Helmer, Manager	Fire Clay Limestone Sand	Silica	2
HOGBACK QUARRY Robinson Brick & Tile Company 500 South Santa Fe Drive Denver, Colorado Lewis Dorr, Manager	Clay	Waterton	2
JOHNSON CLAY QUARRY Street Whisenhunt Castle Rock, Colorado Street Whisenhunt, Manager	Fire Clay	Castle Rock	2
<u>EL PASO COUNTY</u>			
HECLA CLAY QUARRY R. A. Barber Route 3 Colorado Springs, Colorado R. A. Barber, Manager	Clay	Husted	2
LENNOX BREED QUARRY Golden Cycle Corporation Vetter & Son, Contractor Cripple Creek, Colorado Max W. Bowen, Manager	Limestone	Colorado Springs	2
LITTLE FOUNTAIN CREEK QUARRY Nixon Brothers 1727 South Nevada Colorado Springs, Colorado Phil & Paul Nixon, Managers	Sandstone	Colorado Springs	2
<u>FREMONT COUNTY</u>			
AMERICAN CRYSTAL QUARRY Frank H. Norberg Company 703 U. S. National Bank Building Denver, Colorado W. H. Larsen, Manager	Limestone	Taylor Gulch	2
ASPEN RIDGE QUARRY V. D. Coleman & Company 225 W. Cimarron Colorado Springs, Colorado Lowell Coleman, Manager	Granite	Whitehorn District	2

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
BURNITO QUARRY Ray B. Sturbaum & Son 225 Main Street Canon City, Colorado Ray S. Sturbaum, Manager	Ganister	Canon City	2
CALCITE QUARRY Colorado Limestone Company Box 83 Howard, Colorado Anthony J. Carroccia, Manager	Limestone	Howard	2
CANON DOLOMITE QUARRY Colorado Fuel & Iron Corporation Box 316 Pueblo, Colorado F. C. Jagow, Manager	Dolomite	Canon City	2
COALDALE GYPSUM QUARRY Nat Senatore Penrose, Colorado Nat Senatore, Manager	Gypsum	Salida	2
COLORADO SPRINGS QUARRY Nat Senatore Penrose, Colorado Nat Senatore, Manager	Gypsum	Between Canon City and Colo. Springs	2
COLOROSA TRAVERTINE QUARRY Colonna & Company of Colorado, Inc. Box 387 Canon City, Colorado Alva Allen, Manager	Travertine	Canon City	2
COWAN BROTHERS TRAVERTINE QUARRY J. E. & David Cowan 227 Main Street Canon City, Colorado J. E. & David Cowan, Managers	Block Travertine	Canon City	2
DEVILS HOLE QUARRY Kenneth R. Cox Box 383 Canon City, Colorado Kenneth R. Cox, Manager	Feldspar Mica Beryl	Texas Creek	2
ENGLISH QUARRY Colonna & Company of Colorado, Inc. Box 387 Canon City, Colorado Lonnie Arbaugh, Manager	Marble	Wellsville	2

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
FLINT QUARRY C. E. Goodale 2121 North 9th Street Canon City, Colorado C. E. Goodale, Manager	Fire Clay	Canon City	2
IDEAL CEMENT COMPANY QUARRY Ideal Cement Company Denver National Bank Building Denver, Colorado S. A. Gretencort, Manager PORTLAND PLANT (listed under Mills & Smelters)	Limestone	Portland	2
LAST CHANCE QUARRY Pierce Brothers 1235 Sherman Street Canon City, Colorado Charles Pierce, Manager	Feldspar Mica Beryl	Canon City	2
MICA LODE QUARRY Lockheart & Son Box 521 Canon City, Colorado Alex Lockheart, Manager	Mica	Canon City	2
OAK CREEK QUARRY V. D. Coleman & Company 225 W. Cimarron Colorado Springs, Colorado Glenn Coleman, Manager	Granite	Cotopaxi	2
OAK CREEK QUARRY #2 Ellis and May Canon City, Colorado Archie Ellis, Manager	Feldspar	Canon City	2
PENROSE QUARRY The Standard Fire Brick Company 24th & Albany Street Pueblo, Colorado Dale Hoover, Manager	Silica Rock	Salt Canyon	2
RIDGE VIEW QUARRY Leslie A. Isabell 1009 Elm Avenue Canon City, Colorado Leslie A. Isabell, Manager	Feldspar Mica Beryl	Texas Creek	2
SPIKEBUCK QUARRY Louis Arko & R. C. Kennedy Box 726 Canon City, Colorado Louis Arko, Manager	Feldspar	Parkdale	2

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
TRAIL GULCH QUARRY Colonna & Company of Colorado, Inc. Box 387 Canon City, Colorado George Bauer, Manager	Marble Chips	Canon City	2
TRAVERTINE QUARRY Frank H. Norberg Company 703 U. S. National Bank Building Denver, Colorado William H. Larsen, Manager	Limestone	Wellsville	2
TUMBLE MOUNTAIN QUARRY U. S. Soil Conditioning Company Box 346 Salida, Colorado R. D. Glenn, Manager	Gypsum	Wellsville	2

ARFIELD COUNTY

GLENWOOD SPRINGS LIME QUARRY Frank H. Norberg Company 703 U. S. National Bank Building Denver, Colorado Elmer Bostelman, Manager	Limestone	Glenwood Springs	3
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UNNISON COUNTY

COLORADO FELDSPAR QUARRY Consolidated Feldspar Corporation 1333 West Maple Street Denver, Colorado Alex Lockhart, Manager	Feldspar	Sapinero	4
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EFFERSON COUNTY

BERTRAND QUARRY Cass & Company Golden, Colorado W. J. Mosher, Manager	Crushed Rock	Golden	1
BIGGERS MICA MINE W. E. & T. Company Route 2 Morrison, Colorado L. L. Erickson, Manager	Beryl Mica Feldspar	Tiny Town	1
COWAN CLAY PIT Montgomery Brothers, Constructors 1208 Mariposa Street Denver, Colorado L. W. Montgomery, Manager	Clay	Morrison	1

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
GOLDEN FIRE BRICK COMPANY #1 QUARRY Golden Clay Mining Company Golden, Colorado Elmer Rowe, Manager	Clay	Golden	1
GOLDEN FIRE BRICK COMPANY #5 QUARRY Golden Clay Mining Company Golden, Colorado Elmer Rowe, Manager	Clay	Golden	1
JOHNSON #2 QUARRY Denver Sewer Pipe and Clay Company 4501 Fox Street Denver, Colorado Myron F. Chase, Manager	Clay	Golden	1
LAKEWOOD BRICK COMPANY QUARRY Lakewood Brick Company 1325 Jay Street Lakewood, Colorado Charles Simpson, Manager	Clay	Golden	1
LINDSAY CLAY MINE George W. Lindsay 1931 Forest Street Denver, Colorado Chris Bennetts, Manager	Clay	Leyden	1
LINDSAY LEASE QUARRY Golden Fire Clay Company Golden, Colorado Elmer Rowe, Manager	Clay	Golden	1
NORTH GOLDEN CLAY MINE Denver Fire Clay Company 2301 Blake Street Denver, Colorado Garnett C. Bennetts, Manager	Clay	Golden	1
GEORGE W. PARFET ESTATE, INC. QUARRY William G. Parfet Linder Block Golden, Colorado William G. Parfet, Manager	Clay	Golden	1
H. M. RUBEY CLAY COMPANY QUARRY H. M. Rubey Clay Company Linder Block Golden, Colorado William G. Parfet, Manager	Clay	Golden	1

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
SOUTH GOLDEN CLAY MINE Denver Fire Clay Company 2301 Blake Street Denver, Colorado Garnett C. Bennetts, Manager	Clay	Golden	1
SOUTH TABLE MOUNTAIN QUARRY Peter Kiewit Sons' Company Box 8787 University Park Station Denver, Colorado D. G. Bell, Manager	Crushed Rock	Golden	1
STRAINLAND QUARRY Denver Sewer Pipe & Clay Company 4501 Fox Street Denver, Colorado John C. Hayes, Manager	Clay	Golden	1
TERRA COTTA CLAY MINE Denver Terra Cotta Company 135 Tejon Street Denver, Colorado Tom Bell, Manager	Clay	Golden	1

LAKE COUNTY

PINE VIEW PLACER QUARRY The Standard Fire Brick Company 24th & Albany Streets Pueblo, Colorado Dale Hoover, Manager	Ganister	Leadville	3
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LARIMER COUNTY

ARKINS QUARRY Colorado Stone Company Box 338 Longmont, Colorado Robert O'Brian, Manager	Sandstone	Masonville	1
BERTHOUD QUARRY Colorado Stone Company 1645 North Main Street Longmont, Colorado Russ Chase, Manager	Sandstone	Loveland	1
GOODWIN GYPSUM QUARRY E. W. Munroe Route 2, Box 273 Fort Collins, Colorado E. W. Munroe, Manager	Gypsum	Fort Collins	1

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
LA PORTE QUARRY Ideal Cement Company Denver National Bank Building Denver, Colorado D. O. Howe, Manager LA PORTE MILL (listed under Mills & Smelters)	Limestone	La Porte	1
MASONVILLE QUARRY C. W. Weaver 759 South York Denver, Colorado C. W. Weaver, Manager	Gray Sandstone	Masonville	1
OHLINE QUARRY Arthur Ohline Lyons, Colorado Arthur Ohline, Manager	Red Sandstone	Lyons	1
REX QUARRY Frank H. Norberg Company 703 U. S. National Bank Building Denver, Colorado Harold Bowser, Manager	Limestone	Owl Canyon	1
U. S. GYPSUM QUARRY U. S. Gypsum Company Masonville Route Loveland, Colorado J. R. Miner, Manager U. S. GYPSUM MILL (listed under Mills & Smelters)	Gypsum	Loveland	1

LAS ANIMAS COUNTY

NEW MARY QUARRY Trinidad Brick & Tile Company Trinidad, Colorado Harold Scott, Manager	Fire Clay	Starkville	2
RED ROCK QUARRY Colorado Alabaster Lamp Mfg. Co. 901 W. 4th Street La Junta, Colorado Max Owen, Manager ALABASTER PROCESSING PLANT (listed under Mills & Smelters)	Alabaster	Trinidad	2

PUEBLO COUNTY

CHAMBLIN QUARRY Standard Fire Brick Company Box 654 Pueblo, Colorado F. J. Helwig, Manager	Fire Clay	Pueblo	2
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<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
NELLIE HELEN QUARRY Arthur L. Wands Stone City, Colorado Arthur L. Wands, Manager	Fire Clay	Stone City	2
ROCK CREEK QUARRY Standard Fire Brick Company Box 654 Pueblo, Colorado F. J. Helwig, Manager	Fire Clay	Between Pueblo and Beulah	2
STONE CITY QUARRY #2 Pueblo Clay Products Company Box 1657 Pueblo, Colorado W. N. Thomas, Manager	Fire Clay	Stone City	2
STONE CITY QUARRY #3 Pueblo Clay Products Company Box 1657 Pueblo, Colorado W. N. Thomas, Manager	Fire Clay	Stone City	2

TELLER COUNTY

LIMBER PINE QUARRY Glen Spielman & Wes Earhart Woodland Park, Colorado Glen Speilman, Manager	Feldspar	Rampart Range Road	2
SNOW FLAKE QUARRY Consolidated Feldspar Corporation 1333 West Maple Denver, Colorado Archie Piccone, Manager	Feldspar	Woodland Park	2

OPERATING MILLS AND SMELTERS, 1952

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
<u>BOULDER COUNTY</u>			
BENSON WASHER Washer Benson & Litsey Nederland, Colorado Ross Benson, Manager	Tungsten Concentrates	Nederland	1
CARIBOU SILVER CORPORATION MILL 50 Ton Selective Flotation Mill Cons. Caribou Silver Mines, Inc. 1406 Pearl Street Boulder, Colorado Matthew Ollsen, Manager	Lead and Silver Concentrates	Nederland	1
LAKEWOOD MILL 25 Ton Jig Concentrating Mill Cobb & Weldon 401 Pine Street Boulder, Colorado Harrison S. Cobb, Manager	Tungsten Concentrates	Boulder	1
MARION MILL 25 Ton Gravity Jig & Table Boulder Tungsten Mines, Inc. 1401 Bluebell Avenue Boulder, Colorado George H. Teal, Manager	Tungsten Concentrates	Sugarloaf	1
PASTORE WASHER Washer James Pastore 1946 Walnut Street Boulder, Colorado James Pastore, Manager	Tungsten Concentrates	Boulder	1
VALMONT PLANT 100 Ton Flotation Mill General Chemical Division Allied Chemical & Dye Corporation Box 228 Boulder, Colorado Al McGowen, Manager	Fluorspar Concentrates	Boulder	1
WANO MILL 100 Ton Flotation Mill Ozark-Mahoning Company Tulsa, Oklahoma V. C. Hays, Manager	Fluorspar	Jamestown	1

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
WOLFTONGUE MILL 50 Ton Bulk Flotation Mill Vanadium Corporation of America 40 Lexington Avenue New York City, New York D. W. Viles, Vice Pres. & Gen. Manager D. E. Harrison, Manager Nederland, Colorado	Tungsten Concentrates	Nederland	1
CHAFFEE COUNTY			
CALCIUM COMPANY MILL Processing Plant Calcium Company Box 586 Salida, Colorado Carl Harvey, Manager	Calcium	Salida	3
COLORADO GRANITE FINISHING PLANT Finishing Plant Colorado Granite Company Salida, Colorado John Herschberger, Manager	Granite	Salida	3
MONARCH LIME CRUSHING PLANT Crushing Plant Colorado Fuel & Iron Corporation Garfield, Colorado James Whitney, Manager	Limestone	Garfield	3
REYNOLDS MILL 200 Ton Flotation Mill Reynolds Mining Corporation Box 169 Salida, Colorado E. O. Soret, Manager	Fluorspar	Salida	3
WESTERN FELDSPAR MILL Processing Plant Western Feldspar Milling Company Box 671 Salida, Colorado Vern Magnuson, Manager	Feldspar	Salida	3
CLEAR CREEK COUNTY			
DIXIE MILL 25 Ton Selective Flotation Mill Leroy Giles & Company Idaho Springs, Colorado Leroy Giles, Manager	Lead, Silver and Gold Concentrates	Idaho Springs	1

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
LAMERTINE MILL 75 Ton Selective Flotation Mill Montana Mining & Developing Co. Box 452 Idaho Springs, Colorado Charles Anderson, Manager	Lead, Silver and Gold Concentrates	Idaho Springs	1
LUPTON MILL 50 Ton Selective Flotation Mill Lupton Mining Company Georgetown, Colorado E. P. Lupton, Manager	Lead, Zinc and Silver Concentrates	Georgetown	1
MONARCH MILL (old Bolthoff) 15 Ton Concentrator Monarch Mining Trust 416 Cooper Building Denver, Colorado B. L. Groth, Manager	Lead and Silver Concentrates	Dumont	1
SILVER SPRUCE MILL 50 Ton Selective Flotation Mill Silver Spruce Gold Mining Company Idaho Springs, Colorado C. M. Lyon, Manager	Lead and Zinc Concentrates	Idaho Springs	1
<u>CUSTER COUNTY</u>			
ALEXITE CRUSHING PLANT Crushing Plant Alexite Engineering Division Alexander Film Company Building Colorado Springs, Colorado W. F. Arnold, Manager	Perlite	Rosita	2
<u>DENVER COUNTY</u>			
CONSOLIDATED FELDSPAR CORPORATION MILL Dry Grinding Plant International Minerals & Chemical Corp. 1333 West Maple Denver, Colorado Roy Boone, Manager	Feldspar	Denver	1
GLOBEVILLE PLANT Smelter American Smelting & Refining Company 120 Broadway New York 5, New York J. Paul Harrison, Manager of Colorado Dept.	Cadmium	Globeville	1

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
VALENTINE DRY GRINDING PLANT Dry Grinding Plant S. M. Valentine 1339 W. Cedar Avenue Denver, Colorado S. M. Valentine, Manager	Limestone	Denver	1
<u>DOLORES COUNTY</u>			
EDWARDS MILL 100 Ton Selective Flotation Mill Edward A. Edwards & Associates Rico, Colorado W. D. Peregone, Manager	Zinc and Lead Concentrates (not completed)	Rico	4
RICO ARGENTINE MILL 150 Ton Selective Flotation Mill Rico Argentine Mining Company Rico, Colorado S. B. Hinckley, Manager	Zinc and Lead Concentrates	Rico	4
<u>EAGLE COUNTY</u>			
EMPIRE ZINC MILL 1200 Ton Selective Flotation Mill Empire Zinc Division New Jersey Zinc Company Gilman, Colorado F. J. Maloit, Manager W. L. Jude, Superintendent J. Nelson, Mill Superintendent	Zinc Lead	Gilman	3
<u>EL PASO COUNTY</u>			
GRANITE DRESSING PLANT Dressing Plant V. D. Coleman & Company 225 W. Cimarron Colorado Springs, Colorado Glenn Coleman, Manager	Granite	Colorado Springs	2
<u>FREMONT COUNTY</u>			
EMPIRE ZINC MILL Roasting Kilns Empire Zinc Division New Jersey Zinc Company Canon City, Colorado Robert Davis, Manager	Zinc Concentrates	Canon City	2

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
FLORENCE PLANT Crushing Plant Alexite Engineering Division Alexander Film Company Building Colorado Springs, Colorado Thomas Matthews, Manager	Perlite	Florence	2
PORTLAND PLANT Processing Plant Ideal Cement Company Portland, Colorado or Denver National Bank Building Denver, Colorado Thomas Douglas, General Manager S. A. Gretencort, Manager	Cement	Portland	2
PORTLAND PLASTER MILL Processing Mill Ideal Cement Company Portland, Colorado or Denver National Bank Building Denver, Colorado Thomas Douglas, General Manager S. A. Gretencort, Manager	Plaster	Portland	2
TERRAZZO CRUSHING PLANT Crushing and Screening Plant Colonna & Company of Colorado P. O. Box 387 Canon City, Colorado George E. Smith, Manager	Marble	Canon City	2
WELLSVILLE PLANT Processing Plant U. S. Soil Conditioning Company Salida, Colorado Russell Glenn, Manager	Gypsum	Wellsville	2
<u>GARFIELD COUNTY</u>			
OIL SHALE PLANT Oil Shale Experimental Plant U. S. Bureau of Mines New Customhouse Denver, Colorado Boyd Guthrie, Manager	Oil Shale	Rifle	3
U. S. VANADIUM RIFLE MILL Uranium & Vanadium Processing Plant U. S. Vanadium Company Rifle, Colorado John W. Hill, Western Manager Grand Junction, Colorado R. D. VanZante, Mill Superintendent	Uranium and Vanadium Concentrates	Rifle	3

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
<u>GUNNISON COUNTY</u>			
CALLAHAN ZINC - LEAD CO. MILL 200 Ton Selective Flotation Mill Callahan Zinc-Lead Company Whitepine, Colorado J. E. Dunn, Manager	Zinc and Lead Concentrates	Whitepine	4
CARTER MILL 100 Ton Selective Flotation Mill Kanarado Mining & Developing Co. Ohio City, Colorado Charles T. Vashus, Manager	Lead, Zinc, Gold and Silver Concentrates	Ohio City	4
<u>HINSDALE COUNTY</u>			
COLORADO STANDARD LEAD - ZINC MILL 100 Ton Selective Flotation Mill Colorado Standard Lead-Zinc Mines Co. Lake City, Colorado Pierce C. Walker, Manager	Lead and Zinc Concentrates	Lake City	4
<u>LA PLATA COUNTY</u>			
VANADIUM CORP. OF AMERICA DURANGO PLANT Uranium & Vanadium Processing Plant Vanadium Corp. of America Durango, Colorado D. W. Viles, Vice Pres. & Gen. Manager John A. Maxwell, Plant Superintendent	Uranium and Vanadium Oxides	Durango	4
<u>JACKSON COUNTY</u>			
NORTHGATE MILL Concentrator Ozark-Mahoning Company Tulsa, Oklahoma R. K. Wisco, Plant Manager Cordrey, Colorado	Fluorspar	Cordrey	1
<u>JEFFERSON COUNTY</u>			
BERYL ORES COMPANY MILL Sampler Beryl Ores Company Route 1, Box 409 Arvada, Colorado M. R. Lyons, Manager	Ground Beryl	Arvada	1

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
<u>LAKE COUNTY</u>			
ARKANSAS VALLEY SMELTER Smelter American Smelting & Refining Company Leadville, Colorado J. Paul Harrison, Manager of Colo. Dept. T. P. Fahey, Superintendent	Lead	Leadville	3
CLIMAX MILL 15,000 Ton Selective Flotation Mill Climax Molybdenum Co. 500 5th Avenue New York City, New York Franklin Coolbaugh, Resident Manager Max Dessan, Mill Superintendent	Molybdenum Tin Tungsten and Pyrite Concentrates	Climax	3
CLOUD CITY MILL 100 Ton Gravity Concentrator Adolph Sadar & Company 502 West 7th Street Leadville, Colorado Adolph Sadar, Manager	Lead, Silver, and Gold Concentrates	Leadville	3
RESURRECTION MILL 600 Ton Selective Flotation Mill Resurrection Mining Company Leadville, Colorado B. B. Greenlee, General Manager K. L. Tatman, Mill Superintendent	Gold, Silver, Lead and Zinc Concentrates	Leadville	3
<u>LARIMER COUNTY</u>			
LA PORTE PLANT Processing Plant Ideal Cement Company Boettcher, Colorado or Denver National Bank Building Denver, Colorado Thomas Douglas, General Manager D. O. Howe, Plant Manager	Cement	La Porte	1
U. S. GYPSUM MILL Processing Plant U. S. Gypsum Company Loveland, Colorado J. R. Miner, Manager	Plaster	Loveland	1

NAME OF OPERATIONPRODUCTPROPERTY LOCATIONDISTRICTMESA COUNTY

CLIMAX URANIUM COMPANY PLANT

Uranium & Vanadium Processing Plant
 Climax Uranium Company
 Box 867
 Grand Junction, Colorado
 Marvin L. Kay, Manager
 R. C. Toerper, Mill Superintendent

Uranium and
 Vanadium
 Oxides

Grand Junction

4

MINERAL COUNTY

EMPERIUS MILL

140 Ton Selective Flotation Mill
 Emperius Mining Company
 Creede, Colorado
 Eric Nelson, General Manager
 Warren Caton, Mill Superintendent

Lead and Zinc
 Concentrates

Creede

3

MONTROSE COUNTY

U. S. VANADIUM URAVAN PLANT

Uranium & Vanadium Processing Plant
 U. S. Vanadium Company
 Uravan, Colorado
 John W. Hill, Western Manager
 Grand Junction, Colorado
 John Frazier, Mill Superintendent

Uranium and
 Vanadium
 Oxides

Uravan

4

VANADIUM CORP. OF AMERICA NATURITA PLANT

Uranium & Vanadium Processing Plant
 Vanadium Corp. of America
 Durango, Colorado
 D. W. Viles, Vice Pres. & Gen. Manager
 Pat Daniels, Plant Superintendent

Uranium and
 Vanadium
 Oxides

Naturita

4

OTERO COUNTY

ALABASTER PROCESSING PLANT

Dressing Plant
 Colorado Alabaster Lamp Mfg. Co.
 901 W. 4th Street
 La Junta, Colorado
 Max Owen, Manager

Alabaster

La Junta

2

OURAY COUNTY

AMERICAN #1 MILL

250 Ton Selective Flotation Mill
 American Zinc, Lead and Smelting Co.
 1600 Paul Brown Building
 St. Louis, Missouri
 William Kline, Manager

Lead and Zinc
 Concentrates

Ouray

4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
CAMP BIRD MILL 120 Ton Selective Flotation Mill King Lease, Inc. Ouray, Colorado L. D. Barry, Manager	Gold, Silver, Lead, Zinc, and Copper Concentrates	Ouray	4
IDARADO MILL 1000 Ton Selective Flotation Mill Idarado Mining Company Ouray, Colorado John S. Wise, Manager R. W. Unger, Mill Superintendent	Lead, Zinc and Copper Concentrates	Ouray	4
<u>PITKIN COUNTY</u>			
HERRON BROTHERS MILL 100 Ton Selective Flotation Mill Herron Brothers Aspen, Colorado William Herron, Manager	Lead, Zinc and Silver Concentrates	Aspen	3
<u>PUEBLO COUNTY</u>			
CALCINE PLANT Grinding Plant Pueblo Clay Products Company Thatcher Building Pueblo, Colorado Jim Mayfield, Manager	Calcined Clay	Pueblo	2
COLORADO FUEL & IRON DUMP Magnetic Separation Ferro Processing Corporation P. O. Box 32 Tonawanda, New York Eugene Untermeyer, Manager	Steel Scrap Iron	Pueblo	2
MICA GRINDING PLANT Grinding Plant International Mineral & Chemical Corp. 20 North Wacker Drive Chicago 6, Illinois Andy J. Rozboril, Manager 330 West D Street Pueblo, Colorado	Mica	Pueblo	2
ROCK WOOL PLANT Processing Plant Rock Wool Insulating Company Box 914 Pueblo, Colorado Herb Korholz, Manager	Rock Wool Wool Bats	Pueblo	2

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
<u>SAGUACHE COUNTY</u>			
KINGS TURQUOISE FINISHING PLANT Finishing Plant Horace King Manassa, Colorado Horace King, Manager	Turquoise	Manassa	3
LA GARITA MINE MILL 100 Ton Flotation Mill La Garita Mines Box 61 La Garita, Colorado Ted Biddle, Manager	Gold Concentrates	Crystal Hill	3
<u>SAN JUAN COUNTY</u>			
GOLD PRINCE MILL 80 Ton Selective Flotation Mill Venture Leasing Company Silverton, Colorado William Genetto, Manager	Lead and Zinc Concentrates (not producing)	Silverton	4
LEAD CARBONATE MILL 80 Ton Selective Flotation Mill Bonita Mining & Developing Co., Inc. Box 186 Silverton, Colorado Harry P. Ehrlinger, Manager	Lead and Zinc Concentrates	Silverton	4
MAYFLOWER MILL 600 Ton Selective Flotation Mill Shenandoah-Dives Mining Company Silverton, Colorado Charles A. Chase, Manager Aldo Bonavida, Mill Superintendent	Gold, Silver, Lead, Zinc, and Copper Concentrates	Silverton	4
YUKON MILL 30 Ton Gravity Concentrator Williams & Walby Silverton, Colorado Edward Walby, Manager	Tungsten Concentrates	Cement Creek	4
<u>SAN MIGUEL COUNTY</u>			
BACHELOR CORPORATION MILL Uranium Processing Plant Bachelor Corporation Placerville, Colorado Roscoe Riddle, Manager	Uranium Concentrates (not completed)	Placerville	4

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
SILVER BELL MILL 150 Ton Selective Flotation Mill Silver Bell Mines Company 434 U. S. National Bank Building Denver, Colorado A. A. Smith, Manager	Gold, Silver, Lead, Zinc, and Copper Concentrates	Ophir	4
TELLURIDE MINES MILL 650 Ton Selective Flotation Mill Telluride Mines, Inc. Telluride, Colorado C. F. Parker, Jr., Manager John Ferguson, Mill Superintendent	Lead and Zinc Concentrates	Telluride	4

SUMMIT COUNTY

BULLION MINE MILL 20 Ton Flotation Mill A. R. Rhine 2550 Yarrow Denver, Colorado A. R. Rhine, Manager	Lead, Zinc, Silver and Gold Concentrates	Montezuma	1
CHATAUQUA MILL 50 Ton Flotation Mill Mike Vinson Breckenridge, Colorado Mike Vinson, Manager	Lead and Silver Concentrates	Montezuma	1
PLYMOUTH MILL 60 Ton Flotation Mill John M. Jeffreys Montezuma, Colorado John M. Jeffreys, Manager	Lead and Silver Concentrates	Montezuma	1

TELLER COUNTY

CARLTON MILL 1000 Ton Flotation & Cyanide Mill Golden Cycle Corporation Box 47 Victor, Colorado Max Bowen, General Manager Howard Keil, Manager	Gold and Silver Concentrates	Victor	2
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Tonnage of Uranium - Vanadium Mills is not available

OPERATING PLACERS, 1952

<u>NAME OF OPERATION</u>	<u>PRODUCT</u>	<u>PROPERTY LOCATION</u>	<u>DISTRICT</u>
<u>ADAMS COUNTY</u>			
BRANNAN SAND & GRAVEL PLACER Kerkling & Slensker 101 Brentwood Lakewood, Colorado Kenneth K. Kerkling, Manager	Gold Silver	Denver	1
COOLEY GRAVEL COMPANY PLACER Cooley Gravel Company 6101 Lowell Boulevard Denver, Colorado E. J. Wemlinger, Manager	Gravel Gold	Denver	1
<u>BOULDER COUNTY</u>			
BENSON WASHER Benson & Litsey Nederland, Colorado Ross Benson, Manager	Tungsten	Nederland	1
PASTORE WASHER James Pastore 1946 Walnut Street Boulder, Colorado James Pastore, Manager	Tungsten	Boulder	1
<u>CLEAR CREEK COUNTY</u>			
LOMBARD PLACER MINE Lombard Mines, Inc. Idaho Springs, Colorado Oscar L. Stutenroth, Manager	Gold	Idaho Springs	1
<u>JEFFERSON COUNTY</u>			
W. B. KERKLING PLACER Kerkling & Slensker 101 Brentwood Lakewood, Colorado Kenneth K. Kerkling, Manager	Gold Silver	Denver	1
<u>OURAY COUNTY</u>			
BOX CANYON PLACER C. L. Davis & Associates Delta, Colorado Carl Schneider, Manager	Black Sand Gold	Ouray	4

ROAD WORK, TUNNELS AND DAMS, 1952

<u>NAME OF OPERATION</u>	<u>TYPE OF PROJECT</u>	<u>LOCATION</u>	<u>DISTRICT</u>
<u>BOULDER COUNTY</u>			
BOULDER CANYON HIGHWAY Lowdermilk Brothers Box 4150 Denver, Colorado J. W. Johnson, Manager U. S. Bureau of Public Roads Project #29-0	Highway	Boulder Canyon	1
RESERVOIR #22 Macco Puget Sound Route 2 Golden, Colorado J. M. Sawyer, Manager Denver Board of Water Commissioners	Water Dam	South Boulder Creek	1
<u>CUSTER COUNTY</u>			
NEWMONT EXPLORATION LTD. Newmont Exploration Ltd. Box 366 Jerome, Arizona E. L. Beezley, Manager	Diamond Drill	Westcliffe	2
HAPUTA RANCH DIAMOND DRILL U. S. Bureau of Mines 224 New Customhouse Denver, Colorado Jim Benson, Manager	Diamond Drill	Rosita	2
<u>DELTA COUNTY</u>			
STATE HIGHWAY #65 Alger Construction Company 1865 Garland Street Lakewood, Colorado K. LaCasse, Manager State Highway Projects #S-0131 (1), AA-12, AA-1, F-024 (3).	Roads	Delta	4
<u>DOLORES COUNTY</u>			
STATE HIGHWAY #10 Northwestern Engineering Company E. 60th Avenue & Highway #6 Denver, Colorado B. H. Tebley, Manager State Highway Project #SP-58-10-512	Roads	Dolores	4

<u>NAME OF OPERATION</u>	<u>TYPE OF PROJECT</u>	<u>LOCATION</u>	<u>DISTRICT</u>
<u>GRAND COUNTY</u>			
WILLOW CREEK DAM Colorado Construction Company 60th & North Washington Denver, Colorado C. M. Allen, Jr., Manager U. S. Bureau of Reclamation	Dam	Granby	1
<u>GRAND & ROUTT COUNTIES</u>			
GORE PASS ROAD RELOCATION Schmidt Construction Company Grand Junction, Colorado Walter Schmidt, Manager State Highway Project #S-0107-4	Dirt Road	Gore Pass	1
<u>LAKE COUNTY</u>			
LEADVILLE DRAINAGE TUNNEL U. S. Bureau of Mines 224 New Customhouse Denver, Colorado M. H. Salsbury, Manager	Drainage Tunnel	Leadville	3
NEWMONT EXPLORATION LTD. Newmont Exploration Ltd. Box 366 Jerome, Arizona M. McPherson, Manager	Diamond Drill	Leadville	3
<u>LARIMER COUNTY</u>			
CARTER LAKE RESERVOIR Winston Construction Company Box 208 Loveland, Colorado G. G. McAfee, Manager U. S. Bureau of Reclamation	Dam	Loveland	1
RABBIT MOUNTAIN TUNNEL Tarlton Construction Company Box 494 Fort Collins, Colorado F. A. Marrick, Manager U. S. Bureau of Reclamation	Water Tunnel	La Porte	1
RATTLE SNAKE RESERVOIR Adler Construction Company Box 595 Loveland, Colorado A. B. Farmworth, Manager U. S. Bureau of Reclamation	Dam	Loveland	1

<u>NAME OF OPERATION</u>	<u>TYPE OF PROJECT</u>	<u>LOCATION</u>	<u>DISTRICT</u>
<u>MOFFAT & ROUTT COUNTIES</u>			
COLORADO ROAD RELOCATION Peter Kiewit Sons Company Golden, Colorado Dan Johnson, Manager State Highway Project #SP-42-2-517	Roads	Craig	1
<u>OURAY COUNTY</u>			
STATE HIGHWAY #19 Schmidt Construction Company Grand Junction, Colorado Harold Weyman, Manager State Highway Project #SP-56-19-507 and #F-022-1 (7).	Roads	Ouray	4
<u>PARK COUNTY</u>			
BLUE RIVER TUNNEL Denver Board of Water Commissioners City & County Building Denver, Colorado Jack Fitzgerald, Manager	Water Diversion Tunnel	Grant	2
<u>TELLER COUNTY</u>			
ROGERS TUNNEL Platt Rogers, Inc. Box 153 Pueblo, Colorado Paul Bosshart, Manager	Water Diversion Tunnel	Rosemont	2



