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BUREAU OF MINES

MUSEUM BUILDING

14TH AVENUE AND SHERMAN STREET

DENVER 2, COLORADO

ANNUAL REPORT

for the year 1953



WALTER E. SCOTT, JR. Commissioner of Mines

Publication approved by James A. Noonan, State Controller





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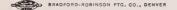


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LETTER OF TRANSMITTAL

June 15, 1954

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 herewith the Report of the State Bureau of Mines for the year 1953.

Respectfully submitted,

WALTER E. SCOTT, JR. Commissioner of Mines

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PERSONNEL OF THE COLORADO BUREAU OF MINES 1953

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 Harrison 4-0814

DISTRICT NO. 2—Baca, Bent, Chevenne, 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. LEEMay 11, 1895—May 10, 1903
E. L. WHITEMay 10, 1903—May 10, 1907
T. J. DALZELLMay 10, 1907—May 10, 1911
T. R. HENAHENMay 10, 1911—May 10, 1915
FRED CARROLLMay 10, 1915—May 10, 1919
HORACE F. LUNTJune 1, 1919—June 1, 1923
JOHN T. JOYCEJune 1, 1923—June 12, 1939
EDWARD P. ARTHURJune 12, 1939—August 26, 1943
FRED JONESSeptember 27, 1943—April 25, 1950
WALTER E. SCOTT, JRMay 3, 1950

PUBLICATIONS OF THE BUREAU OF MINES

BULLETINS

- Bulletin No. 1, Recommendations for Safety Appliance 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 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.
- Bulletin No. 15, Oil Well Safety Laws, Walter E. Scott, Jr., Commissioner of Mines, 1953.
- Circular No. 1, Location of Lode and Placer Mining Claims, Walter E. Scott, Jr., Commissioner of Mines, 1953.

REPORTS

- Report of Bureau of Mines, Colorado, from its establishment in May, 1895, to November 30, 1896, Harry Λ. 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 Λ. 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. Henahen, Commissioner of Mines, 1913.
- Biennial Report for the Years 1913-1914, T. R. Henahen, 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. Luut, 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.
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- Annual Report for the Year 1952, Walter E. Scott, Jr., Commissioner of Mines, 1953.

FOREWORD

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 the Commissioner of Mines, authorized by the Colorado State Constitution in 1876 (Article 16, Section 1) and charged the Commissioner of Mines, among other things, with the supervision of metal mine inspection and the enforcement of laws relating to health and safety in metal mines. Subsequently, this Act was broadened to include "any ore mill, sampling works, smelter, metallurgical plant, rock quarry, clay pit, rock excavations, tunnels or mine workings of whatever kind or character, except coal mines."

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

The Commissioner of Mines was charged, in the Act of 1895, "as he has opportunity and means" to collect and preserve mineral specimens, to accumulate technical and scientific and other data relating to mining, metallurgy and geology, to examine, report and record the geological formation of important mining districts or of any mine. "As he has opportunity and means," the Commissioner of Mines has authority to undertake any research project which would be of assistance to those engaged in mining or which, in any way, would help develop the mineral resources of Colorado. He is charged with the responsibility of making investigations regarding prospecting, buying, selling, transporting, treating and reducing metalliferous ores and minerals and to record the progress of the mineral industry.

The Commissioner may, from time to time, with the consent of the Governor, and as appropriations may be made therefor, compile, publish and distribute bulletins on subjects, districts and counties; such bulletins when treating of a district or a county shall give in detail the history, the geology, the record of mines and mills, the process of treatment and results, together with a classification and location of mining property and prospects, together with maps of the same. However, a lack of funds over the years has greatly limited these duties of the Commissioner of Mines and many functions of the office have been greatly curtailed and others omitted. In consequence, for many years the first and foremost function of the Colorado Bureau of Mines

under the direction of the Commissioner of Mines has been safety inspection. By inspection and investigations, consistent efforts are made to see that safe practices are used to protect the health, safety and welfare of all men employed in the mineral and other industries inspected by the Bureau of Mines. Records of all accidents are received and recorded, and complete statistics concerning accidents are available for those interested.

More than 600 requests for specific information regarding mines, mining areas, geology, mineralogy and other items are received each year and have been answered by the office of the Commissioner of Mines. While advice and information is freely given to prospectors and small operators in order to further the State's mineral development, no written reports on mines are made and care is taken not to encroach on the proper field of consulting engineers and geologists.

The office of the Colorado Bureau of Mines has a vast store of information and reference material, including complete files of the United States Geological Survey and most bulletins issued by the United States Bureau of Mines. This reference material contains bulletins, monographs, mineral resources of the United States and professional papers. A complete file of geological material published by the Colorado Geological Survey is on file, as is much historical material pertaining to mining in Colorado. In the files of the Bureau of Mines are more than sixteen thousand reports on individual mines in Colorado.

This report would not be possible, nor would some of the work done by the Bureau of Mines, if it were not for the full cooperation of other State departments and Federal agencies. The State and Federal agencies and the persons therein to whom we are indebted has become too large for us to thank each one individually, but we are most grateful to all who have been so helpful.

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

The compilation and preparation of this report is the work of the office staff and they, also, are to be congratulated for a very fine job.

The publication of this report is authorized by Section 285, Volume 4, Chapter 110, 1935 Colorado Statutes Annotated.

Every effort has been made to assure accuracy and completeness of the data used in the report but changes, due to removal and altered mining conditions, are constantly taking place which may cause some omissions or mistakes to appear in the publication. It will be most appreciated if any additions, corrections or errors are brought to the attention of the Colorado Bureau of Mines.

MINERAL COLLECTION

The mineral exhibit of the Colorado Bureau of Mines occupies three large rooms on the second floor of the State Museum Building. The Mineral Room (main entrance) contains cases showing agate, native gold, silver and copper, and copper, fluorspar, gold, iron, lead, molybdenum, uranium, vanadium and zinc ores.

The East Room contains collections from James Dollison, Florence Hotchkiss, W. L. Leonard and Robert D. Roots, with many cases of non-metallic minerals.

The West Room, among other items, contains a large collection donated by the Colorado Scientific Society and the John G. Morgan and Harry A. Lee collections, besides other cases of rare minerals and ores.

In all rooms are cases which contain specimens from practically every mine of any consequence which was operated in the State from the very early days on. All specimens, except a very few loans, have been donated to the State by persons interested in Colorado mining. The Bureau of Mines has no funds with which to purchase specimens and still must depend upon the generosity of mining people and others to maintain the collection at its high standard.

Each year many very fine specimens are added to the exhibit.

While thousands of tourists visit the mineral exhibit each year, it continues to be of much concern to prospectors, miners, engineers, geologists and persons generally interested in Colorado's mineral industry.

During the year 1953 more than 250 boxes of mineral specimens were sent to schools, school teachers and children who were making collections of minerals for study. Each box contained specimens of the principal metallics and non-metallic ores being produced in the State. Every effort is made to fulfill all requests that are received but a scarcity of some specimens and the cost of mailing has somewhat limited the number of boxes which can be sent. Frequently, a large number of requests come from one school or one locality and, in such instances, we send a number of boxes and hope that the persons fortunate enough to receive the collection will show it to their classmates and neighbors.

MINING IN 1953

Production of gold, silver, lead, zinc and copper decreased heavily in both quantity and value in 1953, according to information furnished to the Colorado Bureau of Mines by the Mineral Industry Division, Region IV, United States Bureau of Mines. The total value of these five metals was \$13,778,357.00 less than the total production of 1952 and was the lowest since 1946.

The price of lead and zinc started to drop about the middle of 1952 and this decline continued until the end of 1953, causing the price of lead to be the lowest since 1946, and that of zinc since 1943. A large number of mines whose principal value was in lead and zinc were forced to close, including two of the State's large producers. One other large mine, near the end of the year, lowered its production of lead and zinc ores and increased its operations in mining pyritic ores containing gold and copper. The lead, zinc mines which continued to operate were either those mines with low costs or those mines which had a high enough value in gold or silver to keep their operations profitable.

A very serious problem confronts many base and precious metal mines not only in Colorado but in all western States. Since the end of World War II all operating costs have continued to rise and the lead and zinc market has weakened to a point of causing many former profitable mines to now be unprofitable. When such conditions exist, every advantage is in favor of foreign mines. They can produce more cheaply than ours because of much lower labor costs, currency depreciation and even financial assistance from the American government under several existing foreign aid programs. The gold miner apparently gets nothing but sympathy from our government and the plight of the domestic gold miner is too well known to go into it in detail. Many of the most famous gold mines of the United States are in Colorado and if they are forced into continued inactivity for many more years, they will become relegated to the legends of the west.

The bright side of Colorado's mining future appears to be in the mining of uranium and other fissionable ores, molybdenum and non-metallic minerals. While no figures are released on the production of uranium as this is restricted by the Atomic Energy Commission, it is evident that the production is large and it probably has an annual value to the State greater than the combined value of gold, silver, lead, zinc and copper produced for any year in the State's history. The principal uranium producing area in Colorado at this time is in the southwestern part of the State and includes the counties of Mesa, Montrose, San Miguel, Dolores and Montezuma. Small amounts of high grade pitchblende have been discovered and produced in the Front Range area, and in the near future, the counties of Boulder, Clear Creek, Gilpin and Jefferson may become the location of many new and extensive uranium ore deposits. The beryllium production for 1953 was double that of 1952, and the production of tungsten and pyrites

both increased in value, and a small production of manganese was recorded. The State has shown a marked increase in the production of non-metallic minerals in the past few years and this increased production should continue into 1954. Climax Mining Company had practically completed their expansion program at the year's end and early in 1954 will be on their new production schedule of 28,000 tons per day. When this new production level is reached, the Climax Mine will become one of the world's largest underground mines.

The principal producing districts of the State in order of output of gold, silver, lead, zinc and copper were —

- 1. Telluride
- 2. Gilman
- 3. Leadville
- 4. Cripple Creek
- 5. Rico
- 6. Ouray
- 7. Creede
- 8. Silverton

The leading producers of gold, silver, lead, zinc and copper in order of output were —

GOLD Golden Cycle Corporation
Cripple Creek
Idarado Mining Company
Ouray
Telluride Mines, Inc.

Telluride Mines, II

SILVER Idarado Mining Company Ouray

Empire Zinc Division

Gilman

Resurrection Mining Company

Leadville

Emperius Mining Company

Creede

Telluride Mines, Inc.

Telluride

LEAD Idarado Mining Company

Ouray

Resurrection Mining Company

Leadville

Telluride Mines, Inc.

Telluride

Empire Zinc Division

Gilman

Rico Argentine Mining Company

Rico

ZINC Empire Zinc Division

Gilman

Idarado Mining Company

Ouray

Telluride Mines, Inc.

Telluride

Rico Argentine Mining Company

Rico

COPPER The only substantial producer of copper in the State was the Idarado

Mining Company at Ouray.

Among the principal producers of uranium ore were —

Skidmore Mining Company

Dove Creek

United States Vanadium Company

Grand Junction

La Salle Mining Company

Grand Junction

J. R. Simplot Company

Norwood

Climax Uranium Company

Grand Junction

Consolidated Uranium Mines, Inc.

Bull Canyon

Vanadium Corporation of America

Durango

This list is far from being complete and none of the companies are listed in any order of output or production.

All molybdenum production in Colorado is from the Climax Mining Company at Climax and the principal tungsten production came from the mines of Boulder County and the Climax Mine, although some small producers are scattered in other sections of the State.

Beryllium ores come from widespread sections of the State but most of the ore produced is processed by the Beryllium Ores Company at Arvada.

The principal producers of fluorspar in Colorado are the Ozark Mahoning Company, the General Chemical Division of the Allied Chemical and Dye Corporation and the Reynolds Mining Company. Feldspars and micas are produced in various sections of the State, with the principal processor of both being the International Minerals and Chemical Corporation.

Colorado's mineral production, except oil, came from 411 metal mines, 72 quarries, 32 clay mines and pits and 19 placers. The processing of ores was done in 62 mills, plants and smelters. Of the 411 metal mines, of which we have complete record, 178 are uranium producers. However, we do know that we were unable to contact all of the mines with our limited field staff. In the uranium area there are many small mines that are so inacces-

sible that we have reason to believe that we were able to visit and make inspections of probably not more than one-half of these mines.

Adams County

Several sand and gravel producers with washing plants along Clear Creek produced gold as a by-product. Among these sand and gravel firms are Brannan Sand and Gravel, Metropolitan Sand and Gravel and the Cooley Gravel Company. Most of the gold recovered from these sand and gravel placers was sluiced and processed by Kerkling and Slensker.

Boulder County

The Caribou Mine at Caribou, near Nederland, produced some rich silver concentrate during the early part of 1953. However, most of the year was devoted to development work, and the sinking of the main shaft was one of the larger projects. The operating company was reorganized late in the year and the new company, Nederland Mines, Inc., hopes to do further exploration on the pitchblende possibilities of the mine. Fire partially destroyed the Wolf Tongue Tungsten Mill at Nederland early in the year but fire damage was repaired by Hetzer Mines Company and the mill was in operation most of the year processing tungsten ores of the district. Cobb and Weldon treated some twelve thousand tons of low grade ore at their Lakewood Mill on North Boulder Creek. Cold Spring Tungsten, Inc. developed an entirely new ore body in the old Cold Springs Mine which they have under lease. Only a small amount of gold was produced in Boulder County in 1953 and this came from two or three small properties. The Ozark Mahoning Company, the General Chemical Division and H. M. Williamson & Son produced fluorspar throughout the year from their mines. As a by-product from the milling of fluorspar ores the Ozark Mahoning Company and the General Chemical Division shipped lead-silver-gold-copper concentrates.

Chaffee County

The Reynolds Mining Company kept their mill at Poncha Springs in full operation with fluorspar produced from their opencut and underground mines. S. E. and W. E. Burleson shipped zinc-lead-silver-gold ores from the Mary Murphy Mine at Romley. The Monarch Quarry continued to ship large tonnages of limestone to the Colorado Fuel and Iron Corporation at Pueblo. Several feldspar quarries in the county were active during the year and increased the production over the 1952 figures. It was reported that zirconium ore was discovered east of Salida in Chaffee County.

Clear Creek County

Production of gold ore from the Dixie Mine increased over 1952. This ore was concentrated at the company's mill east of Idaho Springs. The Mendota Mine at Silver Plume operated the first four months of the year producing lead and silver and most

of the county's zinc production. A limited amount of silver-lead ore was produced at the Smuggler Mine in the same area. The Grizzly Mine near Bakersville produced throughout the year with most of its lead-zinc ores being treated at the Lupton Mining Company's Commonwealth Mill at Georgetown. Some placer gold was produced from the Cooper Placer at the west city limits of Idaho Springs. The Golconda Mine at Fall River worked part of the year exploring for pitchblende and some small amounts were found.

Costilla County

In Costilla County, near the town of Mesita, production of scoria continued throughout the year. This porous lava material makes very fine building blocks and a ready market was found for all that was produced.

Custer County

The Defender and other mines in the Silver Cliff area made small shipments of lead-zinc-silver ores and lead ores. Several mines were doing exploration and probably could have gone into production if it had not been for the drop in lead and zinc prices. The Great Lakes Carbon Corporation purchased the Perlite Quarries of the Alexite Engineering Division of the Alexander Film Company at Rosita early in the year. Some exploratory diamond drilling was done in Custer County during the year and is rumored that some holes showed possibilities of thorium or other radio-active minerals.

Dolores County

The Rico Argentine Mining Company operated their Argentine, Mountain Springs, Silver Swan and other mines, milling all ores at their 150-ton flotation plant. Despite the decline in metal prices, crude ore produced was about equal in tonnage to that produced in 1952 and, in addition to maintaining production, the company carried on extensive exploration and development campaign which added materially to the underground ore reserves. The company constructed more housing units for employees and made other improvements that will be of future benefit. Some good uranium strikes were reported in Dolores County during the year and it was reported that some samples assayed as high as 2% uranium.

Douglas County

Douglas County produced silica rock and sand, clay and limestone northwest of Littleton, fire clay at the Hogback Mine, and plastic clays were mined in the Castle Rock area. Total dollar value of production was considerably higher than in 1952.

Eagle County

Total production from the Eagle Mine of the Empire Zine Division of the New Jersey Zine Company at Gilman was only about one-half as much as for 1952. This was caused partly by a strike which closed the mine and mill for over two months, and

the decline of lead and zinc prices. During the period of low metal prices, less zinc and lead milling ores are mined and more production is coming from the iron-gold-silver pyritic ores which are shipped directly to the smelter.

El Paso County

The Lennox Breed Quarry of the Golden Cycle Corporation operated all year, furnishing limestone for the plant at Pikeview. Other quarries and pits in El Paso County produced stone and clays with a total production slightly higher than in 1952.

Fremont County

Fremont County continued to be Colorado's most diversified non-metallic mineral producing county. Clays, limestones, marbles, gypsum, feldspar, mica and silica rock were mined. Crushed marble of various colors produced by Colonna and Company, Canon City, go all over the United States for use in terrazzo decorative flooring. The second oldest oil field in the United States is in Fremont County and prospecting which is now under way may develop additional sources of crude oil at depth. Some possibilities of radio-active materials have been discovered in various places in the county and it is possible that in the near future commercial deposits of thorium or uranium may be located.

Garfield County

Production of limestone from the Glenwood Springs Quarry, owned by Frank H. Norberg Company, was slightly less than in 1952. The Rifle Mine of the United States Vanadium Company worked all year and the uranium-vanadium processing plant at Rifle operated at full capacity all year. New processing equipment was put in, considerable new construction and improvements were made at the plant. The United States Bureau of Mines operated their Oil Shale Mine and Experimental Shale Oil Plant all year, and several large independent oil companies are said to be considering the possibilities of producing shale and experimenting with processes of their own.

Gilpin County

Small tonnages of gold, silver and gold-silver-lead-copper ores were produced during the year and while production was small, it was still considerably higher than the amounts produced in 1952. Near the end of the year a number of mines were being opened in the search for uranium. On the Queen Mineral Range were three properties which give evidence of containing pitchblende and one, the Cherokee Shaft, was being explored on the bottom level. The Calhoun Mine which found pitchblende in the Wood Vein on the 600-foot level closed down December 15th before all of their exploration work was completed. Finds of torbernite and secondary uraninite were reported at the Carroll, the Two Sisters and other mines at the west city limits of Central City. Most discoveries were made on old mine dumps but plans were made to re-open some of the properties to investigate the possibilities of

uranium ores underground. With this new uranium excitement, prospects for mining in Gilpin County are better than for many years.

Gunnison County

The Akron-Erie Mines of Callahan Zinc-Lead Company produced no ore during 1953 but for several months had a small crew doing exploration and development. However, all work was finally stopped and the mine completely closed in October. A company headed by Allyn Cole, a Glenwood Springs attorney, purchased the holdings of the Colorado Yule Marble Company at Marble and expect to produce limestone from the property and will build lime-burning kilns as soon as the weather will permit in the spring. The Micawber Mine of the Slate River Mining Company reported a strike of silver-lead-zinc-copper ore which they felt might develop into an ore body of consequence. The Lilly Belle Mining Company announced the discovery of tungsten at their Annebelle Mine. Development work was stopped at the Keystone Mine by the American Smelting and Refining Company at Crested Butte early in the summer and all work was devoted to the construction of the new 200-ton flotation mill. Most of the equipment for this mill came from the Mike Horse Mine in Montana. Production from the Keystone Mine will probably not start until the prices of lead and zine become more favorable than at present. The Carter Mine and Mill of the Kanarado Mining and Development Company at Ohio City produced most of Gunnison County's gold, along with some silver and lead. The production of gold, silver, lead, zinc and copper in Gunnison County dropped from over \$800,000.00 in 1952 to \$8,350.00 in 1953. The Brown Derby Mine of the Poston Mining Company produced beryllium ores and lepidolite.

Hinsdale County

Only one load of ore was shipped from Hinsdale County in 1953, amounting to \$585.00. While the metal production for 1952 amounted to over \$327,000.00, the principal loss in production was caused by the closing of the Ute and Ulay Mine in Lake City. This property was purchased from the Colorado Standard Lead, Zine Company in May by the Idarado Mining Company which had been operating the property on option.

Huerfano County

No mineral production reported for this year although the K. S. Mittry Construction Company, which has been doing exploratory work in the La Veta area, announced that some discoveries of uranium ores had been made.

Jackson County

The Ozark Mahoning Company operated their fluorspar mines and mill all year. Ore came from both open pit and underground mines and the 1953 production was almost double that of 1952. Several reported discoveries of pitchblende were made in Jackson county but there were no mining operations reported.

Jefferson County

Pitchblende and torbernite ores were produced and sold to the Atomic Energy Commission from Schwartzwalder Mine on Ralston Creek and plans were made for future development of the property. Several other properties in the same area reported uranium minerals but no other ores were shipped from the area. The old Malachite Mine west of Golden, shipped one truck load of coppersilver-gold ores. W. B. Kerkling produced much of the county's gold from his placer on Clear Creek, and other placer gold was produced as a by-product from the sand and gravel washing plants of the Brannan Sand and Gravel Company and the Rio Grande Sand and Gravel Company. Some beryllium was produced in various parts of the county and sold to the Beryllium Ores Company at Arvada. Only a very small amount of mica was produced during the year. Jefferson county was the State's largest producer of clay. Crushed stone from the quarries along Clear Creek had been a source of stone riprap for many earth-filled dams and canals, but litigation closed the quarries and there was no production of crushed stone in 1953 compared to production of more than one-half million dollars in 1952.

Lake County

A press announcement on May 27th stated the Resurrection Mining Company was out of ore; was going to curtail operations and probably would completely close down. On July 3rd, the Company stopped all work. This Company had been a large producer since 1942 and the closing of their mine left Leadville without a major producer of gold, silver, lead, zinc and copper. Soon after closing down, the Resurrection No. 2 shaft was leased to Robert L. Jones and in September, the Resurrection Company decided to do some limited exploration and to operate part of their mill for custom ore. The Company unwatered the Helena Mine in Iowa Gulch and started some exploration work. Newmont Mining Corporation, one of the owners of the Resurrection Mining Company, purchased the interest of the Hecla Mining Company and the United States Smelting, Refining & Mining Company and, in consequence, became sole owner of the Resurrection Mining Company. The American Smelting and Refining Company completed sinking the new Irene shaft to the Eclipse workings but after cutting the main station, shut the entire property down on account of the low metal prices. The Caldwell Mining Company operating the Hayden Mine, worked all year on development and shipped some ore to custom mills. The Arkansas Valley Smelter operated all year except for minor repair shutdowns, with tonnage smelted lower than 1952. Total production of gold, silver, lead, zinc and copper for 1953 was only about one-half of the amount produced in 1952.

La Plata County

The Vanadium Corporation of America exercised its option to purchase the Durango Plant from the Atomic Energy Commission and obtained permission to install a new roaster. It is reported that after the roaster was installed, the Vanadium Corporation of America at the Durango Plant produced more uranium concentrates in a 30-day period than any other uranium-vanadium mill in the United States for a like period. Vanadium Corporation, in addition to producing uranium, is considered the largest single producer of vanadium in the world. The Bessie "G" Mine in the La Plata mountains, northwest of Durango, shipped some high grade ore to the Leadville Smelter.

Larimer County

Larimer county continues to be one of the larger producers of limestone and gypsum but had no reported metal production for 1953. The Copper King Mine in Cherokee Park developed some small amounts of pitchblende but stopped exploratory work at the mine and put it in condition to be used as a Tourist attraction.

Las Animas County

Clay was produced by the Trinidad Brick & Tile Company from their New Mary Mine and the only alabaster for the year came from Las Animas county. Several wildcat oil rigs were reported to be ready for exploratory drilling east of Trinidad.

Mesa County

The Atomic Energy Commission constructed a new repair and maintenance job and made other improvements at the Grand Junction headquarters. The number of men employed by the Atomic Energy Commission in 1953 materially increased over the number employed in 1952. Several important uranium finds were reported from diamond drilling exploration in the county.

Mineral County

The Emperius Mining Company operating many of the early day Creede mines, including the Amethyst, Commodore, Wedge, New York, Volunteer, Del Monte, Aspen and Equinox, was the principal producer in the county. Most of the ore mined was treated in the Company's 100-ton flotation plant but some high grade ores were shipped direct to the Leadville smelter. The Outlet Mining Company operating the Phoenix, also shipped ore to the Leadville smelter. Several other mines were reopened and explored and those which have high silver values probably can operate in spite of the low lead and zine prices. While the Mineral county production, as a whole, was below the 1952 level, the decline was not nearly as severe as in some other sections of the State.

Montrose County

Montrose county was the most active county in Colorado in 1953 in uranium production. Two large processing plants in the county are that of the United States Vanadium Company at Uravan, and that of Vanadium Corporation of America at Naturita. Several large companies sank deep shafts on Atomic Energy Commission leases and there were purchases of large blocks of privately owned claims. The Golden Cycle Corporation completed a

new shaft 635 feet deep on Atkinson Mesa and were ready to go into production at the end of the year. The Shattuck-Denn Company is also sinking a deep vertical shaft in the same area. J. R. Sinplot sank an 800 foot incline shaft in the Bull Canyon area and the Consolidated Uranium Company was developing large groups in the same area. The Four Corner Uranium Corporation purchased large holdings from State Senator D. Lew Williams and Associates and began production from the property. At Uravan, the United States Vanadium Company put in a new milling process and doubled their plant capacity. At their Naturita Plant, the Vanadium Corporation of America added a new roaster and increased production by 80%.

Ouray County

The Colvin Mining and Milling Company operated the Silver Shield Mill for part of the year and shipped some lead, silver concentrates. The Camp Bird, King Lease, Inc., operated continuously throughout the year, with the metal production equal with that of 1952. The Idarado Mining Company had a disastrous fire on June 7th which destroyed all surface buildings at the portal of the Treasury Tunnel. The fire caused a shutdown of the Idarado Mill for about three weeks. New buildings to replace the ones destroyed by fire, are modern fire-proof structures.

Park County

The Phillips Mine of the Buckskin Joe Mines Limited, continued to be the only steady producer of metals in Park County. The Ling Mine of the Cordillera Corporation produced a small tonnage of high grade gold ore and the Alma Syndicate shipped small amounts of gold and silver ores. A small amount of gold was taken from placers near Alma. The Notamas Company of California purchased all the assets of the South Park Dredging Company at Fairplay. The large dredge of the South Park Company has not been operated since the end of 1951.

Pitkin County

A number of percussion and diamond drill holes were completed in some of the Aspen mines under the direction of the Atomic Energy Commission. The mines which were explored are under lease to the Herron Bros., of Aspen and no definite reports were released on the results of the exploratory drilling. Small amounts of silver ore were produced from the Nelson and Wichita Egg Mine.

Pueblo County

The only mineral production in Pueblo was from clay but the Mica Grinding Plant of the International Mineral and Chemical Corporation processed mica that was produced in other counties and was in operation all year.

Rio Blanco County

Rio Blanco county at Rangely, is Colorado's largest oil producing area, accounting for about one-half of all oil produced in the State. Several companies were exploring for uranium in the

county and new discoveries were reported, in addition to those already known. Several small mines near Meeker shipped some uranium ores during the year.

Rio Grande County

The Newmont Mining Corporation took a long term lease of some 2,000 acres of mining property owned by George Garry and B. T. Poxton at Summitville. During the summer months, Newmont diamond drilled on the Summitville mines property and did other geological and exploratory work. John Livermore, Geologist of the Newmont Exploration Department, was in charge of the work. It is expected more work will be done as soon as the weather will permit, this coming spring or summer.

Routt County

The Midwest Uranium Corporation of Salt Lake City leased a number of claims about four miles from Steamboat Springs. These claims were located by the Hoskinson Brothers and are said to contain a very good showing of uranium.

Saguache County

William J. Costello leased the Rawley Mine at Bonanza and continued to ship smelting ores which contained lead, silver, gold and copper to the smelter at Leadville. La Garita Mines, Inc., operated the Crystal Hill and Esperanza Mines and milled the ore at their own mill nearby. Concentrates containing gold and silver were shipped to Leadville and gold retorts to the Mint in Denver. Bear Creek Mining Company, Exploration Subsidiary of Kennicott Copper Corporation, did considerable exploratory diamond drilling in the Bonanza area. The Wannamaker Mining and Milling Company carried on development work at their Sky City Mine in the Big Park District and reported finds of copper-silver-lead ore. The Saguache Smelting Company completed buildings for a new smelter which is being constructed near the town of Saguache. The only reported production of turquoise for the year came from the Villa Grove Turquoise Lode near Villa Grove.

San Juan County

The Shenandoah-Dives Company ceased operation March 14, 1953, and closed down their 700-ton mill. This company was the largest metal producer in San Juan county and the shutdown reduced the county's production to the lowest level since 1922. In July, the company received a \$210,900 grant from the Defense Minerals Exploration Administration for exploration of the Letter "G" vein and for the balance of the year continued only on this exploration. The Pride of the West was a substantial producer in 1953, shipping to the Shenandoah-Dives Mill until the shutdown, and after that time sending their ore to the West Mill at Howards-ville owned by Falk Metals Corporation. The United States Metals Company continued development work on the Henrietta Group and shipped some ore, and the company also continued exploratory and development work at several other properties owned by them. The Lead Carbonate Mine shipped some ore during the year to

custom mills and later decided to stockpile their production. Other producing mines were: Bonita, Columbus, Great Eastern, Green Mountain and others. The Dawn of Day Mine in Dry Creek produced tungsten during the year.

San Miguel County

Boyd Robinson shipped iron oxide (bog-iron) from his property at Ophir. This ore is considered an excellent base for paint making. The Consolidated Uranium Mines, Inc., started exploratory and development work on their holdings in the Mineral Mountain and Bold Canyon areas. Idarado Mining Company was the principal producer during 1953 with ores coming from the Ajax, Black Bear and other properties. While the company's mill at the portal of Treasury Tunnel is in Ouray county, all ores came from San Miguel county. In May 1953, the Idarado Mining Company purchased the Telluride Mine, which operated the Smuggler Union, Montana and Tom-Boy Mines. The Silver Bell Mines Company operated their 175-ton flotation mill at Ophir, producing lead-silver-gold-copper concentrate and some tungsten. Most of the ore came from the Carbonero Mine at old Ophir although ores containing tungsten came from the Silver Bell Mine.

Summit County

W. L. Davenport, operating the Wellington Mine at Breckenridge, was the largest producer in the county and the tonnage produced was double that of 1952. After the Resurrection Mining Company closed their custom mill at Leadville, Davenport shipped his ore to the United States Smelting and Refining Company at Midvale, Utah. The Monte Cristo Mine worked by Gerald Galloway, shipped some silver-lead-zinc-gold ore. The Juniata Mining and Milling Company shipped small amounts of manganese from their Ceciel and Betty Jean Mines. Elvin Oelrich worked the Sts. John Mine at Montezuma all year on a small scale. Other producers were the Chataugua, Ida Belle, Silver King, Pennsylvania and others. Some lead, silver and gold concentrates were shipped from the Queen of the West Mill at Kokomo. The Big Four near Green Mountain Dam was leased to Kyle and Thomas and they were preparing the mine for production. Tungsten was reported near Blue Lakes and the Silicate Reduction Company was expected to build a mill to handle tungsten ores.

Teller County

Gold production in Teller county increased from 48,257 ounces in 1952 to 50,500 ounces in 1953. The Carlton Mill operated all year with an average mill tonnage of about 16,000 tons per month. 70% of the ore milled came from dumps with mine ore coming from the company's Ajax and Cresson Mines. The Ajax continued to be the largest gold mine in the State and some high grade ore from the 3100-foot level was as high as \$5.50 per pound in gold. The Ajax also made a discovery of ore on the Black Diamond vein in an area previously considered to be out of the general ore zone. The Free Coinage, Dr. Jack Pot, El Paso, Gold King and Tenderfoot were substantial producers. The Globe Hill Mining Company,

operating the Chicago Tunnel, shipped considerable ore during the year and also became active in the hunt for uranium in the Colorado Plateau area. The Front Range Mines Company deepened their main winze to a point 687 feet below the bottom of the Strong Shaft. The Front Range Company leased the Mary Cashen Mine to the Golden Cycle so that it could be worked through the Ajax Mine. The La Clair Mining Company put a new steel head-frame and hoisting equipment on the Grace Greenwood Mine in preparation to reopening. Blevins Davis, with John W. Star, formed the Gold Sovereign Leasing Company and started work on the Gold Sovereign Mine. The same interests have taken leases on Dante, Trilby, Trail, Wildhorse and Ramona.

PRODUCTION BY COUNTIES 1953

Adams County	
Area, 1,247 Square Miles	42.000.00
Gold	
Silver	158.00
TOTAL	\$ 42,788.00
Boulder County	
Area, 753 Square Miles	
Gold	\$ 4,585.00
Silver	22,022.00
Copper	4,592.00
Lead	26,200.00
TOTAL	\$ 57,399.00
Clay	\$ 2,483.00
Fluorspar	1,394,580.00
Peat	23,100.00
Building Stone	386,807.00
Crushed Stone	14,447.00
Tungsten	1,139,555.00
TOTAL	\$ 2,960,972.00
Total Production for County	\$ 3,018,371.00
Chaffee County	
Area, 1,039 Square Miles	
Gold	9,940.00
Silver	601.00
Copper	574.00

LeadZinc	2,882.00 3,680.00
TOTAL\$ Calcium Phosphate\$ Feldspar Fluorspar Crushed Stone Limestone	17,677.00 1,709.00 302,370.00 269,290.00 1,873.00 620,431.00
Monumental Stone	5,800.00
TOTAL \$ Total Production for County \$	1,201,473.00 1,219,150.00
Clear Creek County Area, 394 Square Miles	
Gold	80,710.00 46,930.00 13,776.00 115,280.00 21,390.00
TOTAL. \$ Beryl \$ Feldspar	278,086.00 1,875.00 700.00
TOTAL\$ Total Production for County\$	2,575.00 280,661.00
Costilla County Area, 1,215 Square Miles Volcanic Cinder\$	74,700.00
Custer County Area, 737 Square Miles	11,100.00
Gold\$ Silver	105.00 305.00 2,620.00 1,380.00
TOTAL\$ Monumental Stone \$ Perlite	4,410.00 12,000.00 52,792.00
TOTAL\$ Total Production for County\$	64,792.00 69,202.00
Dolores County	
Area, 1,028 Square Miles Gold	3,325.00 94,042.00

Copper Lead Zinc	10,332.00 490,202.00 605,820.00
TOTAL\$	1,203,721.00
Douglas County	
Area, 843 Square Miles	
Clay\$	150,536.00
Limestone Silica Rock	488.00 977.00
TOTAL\$	152,001.00
Eagle County	
Area, 1,685 Square Miles	
Gold \$	131,250.00
Silver	525,925.00
Copper	252,560.00
Lead	655,000.00
Zine	3,875,500.00
TOTAL\$	5,440,235.00
Volcanic Cinder	800.00
Total Production for County	5,441,035.00
El Paga Country	
El Paso County Area 2 158 Square Miles	
Area, 2,158 Square Miles	27 652 00
Area, 2,158 Square Miles Clay	27,652.00 12.000.00
Area, 2,158 Square Miles Clay\$ Crushed Stone\$	27,652.00 12,000.00 120,000.00
Area, 2,158 Square Miles Clay	12,000.00 120,000.00
Area, 2,158 Square Miles Clay\$ Crushed Stone\$	12,000.00 120,000.00
Area, 2,158 Square Miles Clay \$ Crushed Stone \$ Limestone \$ TOTAL \$ Fremont County	12,000.00 120,000.00
Area, 2,158 Square Miles Clay \$ Crushed Stone \$ Limestone \$ TOTAL \$ Fremont County Area, 1,562 Square Miles	12,000.00 120,000.00 159,652.00
Area, 2,158 Square Miles Clay	12,000.00 120,000.00 159,652.00 4,135.00
Area, 2,158 Square Miles Clay	12,000.00 120,000.00 159,652.00 4,135.00 32,484.00
Area, 2,158 Square Miles Clay	12,000.00 120,000.00 159,652.00 4,135.00 32,484.00 127,344.00
Area, 2,158 Square Miles Clay \$ Crushed Stone \$ Limestone \$ TOTAL \$ Fremont County Area, 1,562 Square Miles Beryl \$ Clay \$ Dolomite \$ Feldspar	12,000.00 120,000.00 159,652.00 4,135.00 32,484.00 127,344.00 9,137.00
Area, 2,158 Square Miles Clay \$ Crushed Stone \$ Limestone \$ TOTAL \$ Fremont County Area, 1,562 Square Miles Beryl \$ Clay \$ Dolomite \$ Feldspar \$ Gypsum \$	12,000.00 120,000.00 159,652.00 4,135.00 32,484.00 127,344.00 9,137.00 235,714.00
Area, 2,158 Square Miles Clay \$ Crushed Stone Limestone TOTAL \$ Fremont County Area, 1,562 Square Miles Beryl \$ Clay \$ Dolomite Feldspar Gypsum Limestone	12,000.00 120,000.00 159,652.00 4,135.00 32,484.00 127,344.00 9,137.00 235,714.00 1,491,313.00
Area, 2,158 Square Miles Clay \$ Crushed Stone Limestone TOTAL \$ Fremont County Area, 1,562 Square Miles Beryl \$ Clay Dolomite Feldspar Gypsum Limestone Mica \$ \$	12,000.00 120,000.00 159,652.00 4,135.00 32,484.00 127,344.00 9,137.00 235,714.00 1,491,313.00 9,366.00
Area, 2,158 Square Miles Clay \$ Crushed Stone Limestone TOTAL \$ Fremont County Area, 1,562 Square Miles Beryl \$ Clay \$ Clay \$ Dolomite \$ Feldspar \$ Gypsum Limestone Mica Monumental Stone	12,000.00 120,000.00 159,652.00 4,135.00 32,484.00 127,344.00 9,137.00 235,714.00 1,491,313.00 9,366.00 2,222.00
Area, 2,158 Square Miles Clay \$ Crushed Stone Limestone TOTAL \$ Fremont County Area, 1,562 Square Miles Beryl \$ Clay \$ Clay \$ Dolomite \$ Feldspar \$ Gypsum Limestone Mica Monumental Stone Silica Rock	12,000.00 120,000.00 159,652.00 4,135.00 32,484.00 127,344.00 9,137.00 235,714.00 1,491,313.00 9,366.00 2,222.00 45,532.00
Area, 2,158 Square Miles Clay \$ Crushed Stone Limestone TOTAL \$ Fremont County Area, 1,562 Square Miles Beryl \$ Clay \$ Dolomite Feldspar Gypsum Limestone Mica Monumental Stone Silica Rock Terrazzo Chips (Marble)	12,000.00 120,000.00 159,652.00 4,135.00 32,484.00 127,344.00 9,137.00 235,714.00 1,491,313.00 9,366.00 2,222.00 45,532.00 21,837.00
Area, 2,158 Square Miles Clay \$ Crushed Stone Limestone TOTAL \$ Fremont County Area, 1,562 Square Miles Beryl \$ Clay \$ Clay \$ Dolomite \$ Feldspar \$ Gypsum Limestone Mica Monumental Stone Silica Rock	12,000.00 120,000.00 159,652.00 4,135.00 32,484.00 127,344.00 9,137.00 235,714.00 1,491,313.00 9,366.00 2,222.00 45,532.00 21,837.00 13,748.00

Garfield County Area, 2,994 Square Miles		
Limestone	.\$	30,565.00
Gilpin County Area, 149 Square Miles		
Gold		5,530.00
Silver Copper		882.00 574.00
Lead	•	524.00
Peat Moss		7,510.00 1,050.00
Total Production for County	.ф .\$	8,560.00
Gunnison County		
Area, 3,242 Square Miles Gold	.\$	4,340.00
Silver Lead		800.00 2,620.00
		7,760.00
Beryllium TOTAL	\$	21,000.00
Lepidolite	-	27,000.00
TOTALTotal Production for County		48,000.00 55,760.00
Hinsdale County		
Area, 1,057 Square Miles Gold	\$	35.00
Silver Lead		58.00 262.00
Zine		230.00
TOTAL	\$	585.00
Jackson County		
Area, 1,623 Square Miles Fluorspar	\$	1.126.276.00
Jefferson County	۲	1,120,210.00
Area, 786 Square Miles		
Gold Silver		11,165.00 119.00
Copper		1,722.00
TOTAL		13,006.00 1,821.00
Beryl Clay		401,088.00

Feldspar Mica	
TOTAL	\$ 431,863.00
Total Production for County	
Lake County	
Area, 380 Square Miles	
Gold	\$ 327,075.00
Silver	
Copper	33,866.00
Lead	
<u>Tin</u>	
Zine	907,350.00
TOTAL	\$ 2.265.490.00
Manganese	
Molybdenum	
Monazite	3,307.00
Peat Moss	. ,
Silica Rock	
Tungsten	1,651,986.00
TOTAL	\$38 994 734 00
Total Production for County	\$41,260,224.00
La Plata County Area, 1,689 Square Miles Gold	
TOTAL	\$ 7,218.00
Larimer County	
Area, 2,619 Square Miles	
Gypsum	\$ 130,742.00
Limestone	
Sandstone (Building Stone)	48,810.00
TŌTAL	\$ 988,363.00
Las Animas County	
Area, 4,794 Square Miles	
	\$ 7,000.00
Clay	31,250.00
TOTAL	\$ 38,250.00
	φ οσ,200.00
Mineral County	
Area, 921 Square Miles	
Gold	
Silver	

TOTAL \$ 850,023.00 Ouray County Area, 540 Square Miles \$ 112,840.00 Gold \$ 33,242.00 Copper 145,796.00 Lead 356,320.00 Zinc 198,720.00 TUngsten \$ 896,918.00 Total Production for County \$ 897,748.00 Park County Area, 2,166 Square Miles 6,932.00 Gold \$ 51,450.00 Silver 6,932.00 Copper 7,462.00 Lead 8,646.00 Zine 63,250.00 TOTAL \$ 137,740.00 Pitkin County Area, 974 Square Miles 3,975.00 Lead 2,358.00 Zinc 460.00 TOTAL \$ 6,828.00 Pueblo County Area, 2,401 Square Miles 4,760.00 Clay \$ 244,888.00 Saguache County Area, 3,144 Square Miles 4,223.00 Gold \$ 4,760.00	Copper Lead Zinc	6,888.00 444,352.00 197,340.00
Area, 540 Square Miles \$ 112,840.00 Silver 83,242.00 Copper 145,796.00 Lead 356,320.00 Zine 198,720.00 TOTAL \$ 896,918.00 Tungsten \$ 830.00 Total Production for County \$ 897,748.00 Park County Area, 2,166 Square Miles 6,932.00 Gold \$ 51,450.00 Silver 6,932.00 Copper 7,462.00 Lead 8,646.00 Zine 63,250.00 TOTAL \$ 137,740.00 Pitkin County Area, 974 Square Miles 35.00 Silver 3,975.00 Lead 2,358.00 Zine 460.00 TOTAL \$ 6,828.00 Pueblo County Area, 2,401 Square Miles \$ 244,888.00 Saguache County Area, 3,144 Square Miles \$ 4,760.00 Silver 3,444.00 Copper 3,444.00 Lead 9,432.00	TOTAL\$	850,023.00
Area, 540 Square Miles \$ 112,840.00 Silver 83,242.00 Copper 145,796.00 Lead 356,320.00 Zine 198,720.00 TOTAL \$ 896,918.00 Tungsten \$ 830.00 Total Production for County \$ 897,748.00 Park County Area, 2,166 Square Miles 6,932.00 Gold \$ 51,450.00 Silver 6,932.00 Copper 7,462.00 Lead 8,646.00 Zine 63,250.00 TOTAL \$ 137,740.00 Pitkin County Area, 974 Square Miles 35.00 Silver 3,975.00 Lead 2,358.00 Zine 460.00 TOTAL \$ 6,828.00 Pueblo County Area, 2,401 Square Miles \$ 244,888.00 Saguache County Area, 3,144 Square Miles \$ 4,760.00 Silver 3,444.00 Copper 3,444.00 Lead 9,432.00	Ouray County	
Silver		
Copper	Gold\$	
Lead 356,320.00 198,720.00 198,720.00 198,720.00 198,720.00		
TOTAL \$896,918.00	- 1 1	
TOTAL \$ 896,918.00 Tungsten \$ 830.00 Total Production for County \$ 897,748.00 Park County Area, 2,166 Square Miles Gold \$ 51,450.00 Silver 6,932.00 Copper 7,462.00 Lead 8,646.00 Zine 63,250.00 TOTAL \$ 137,740.00 Pitkin County Area, 974 Square Miles Gold \$ 35.00 Silver 3,975.00 Lead 2,358.00 Zinc 460.00 TOTAL \$ 6,828.00 Pueblo County Area, 2,401 Square Miles Clay \$ 244,888.00 Saguache County Area, 3,144 Square Miles Gold \$ 4,760.00 Silver 4,223.00 Copper 3,444.00 Lead 9,432.00 TOTAL \$ 9,432.00 Copper 3,444.00 Lead 9,432.00 TOTAL \$ 21,859.00		
Tungsten	Zine	198,720.00
Tungsten	TOTAL\$	896,918.00
Park County Area, 2,166 Square Miles \$ 51,450.00 Gold \$ 51,450.00 Silver 6,932.00 Copper 7,462.00 Lead 8,646.00 Zine 63,250.00 TOTAL \$ 137,740.00 Pitkin County Area, 974 Square Miles 35.00 Silver 3,975.00 Lead 2,358.00 Zine 460.00 TOTAL \$ 6,828.00 Pueblo County Area, 2,401 Square Miles Clay \$ 244,888.00 Saguache County Area, 3,144 Square Miles 4,760.00 Silver 4,223.00 Copper 3,444.00 Lead 9,432.00 TOTAL \$ 21,859.00	Tungsten\$	830.00
Area, 2,166 Square Miles Gold \$51,450.00 Silver 6,932.00 Copper 7,462.00 Lead 8,646.00 Zine 63,250.00 TOTAL \$137,740.00 Pitkin County Area, 974 Square Miles Gold \$3,975.00 Lead 2,358.00 Zine 39,75.00 Lead 2,358.00 Zine 460.00 TOTAL \$6,828.00 Pueblo County Area, 2,401 Square Miles Clay \$244,888.00 Saguache County Area, 3,144 Square Miles Gold \$4,760.00 Silver 4,223.00 Copper 3,444.00 Lead 9,432.00 TOTAL \$9,432.00	Total Production for County\$	897,748.00
Area, 2,166 Square Miles Gold \$51,450.00 Silver 6,932.00 Copper 7,462.00 Lead 8,646.00 Zine 63,250.00 TOTAL \$137,740.00 Pitkin County Area, 974 Square Miles Gold \$3,975.00 Lead 2,358.00 Zine 39,75.00 Lead 2,358.00 Zine 460.00 TOTAL \$6,828.00 Pueblo County Area, 2,401 Square Miles Clay \$244,888.00 Saguache County Area, 3,144 Square Miles Gold \$4,760.00 Silver 4,223.00 Copper 3,444.00 Lead 9,432.00 TOTAL \$9,432.00	Park County	
Gold \$ 51,450.00 Silver 6,932.00 Copper 7,462.00 Lead 8,646.00 Zinc 63,250.00 TOTAL \$ 137,740.00 Pitkin County Area, 974 Square Miles 35.00 Silver 3,975.00 Lead 2,358.00 Zinc 460.00 TOTAL \$ 6,828.00 Pueblo County Area, 2,401 Square Miles \$ 244,888.00 Saguache County \$ 244,888.00 Saguache County \$ 4,760.00 Silver 4,223.00 Copper 3,444.00 Lead 9,432.00 TOTAL \$ 21,859.00		
Silver 6,932.00 Copper 7,462.00 Lead 8,646.00 Zinc 63,250.00 TOTAL \$ 137,740.00 Pitkin County Area, 974 Square Miles 35.00 Silver 3,975.00 Lead 2,358.00 Zinc 460.00 TOTAL \$ 6,828.00 Pueblo County Area, 2,401 Square Miles \$ 244,888.00 Saguache County \$ 244,888.00 Saguache County \$ 4,760.00 Silver 4,223.00 Copper 3,444.00 Lead 9,432.00 TOTAL \$ 21,859.00		51.450.00
Copper Lead Lead S,646.00 8,646.00 Zine 63,250.00 63,250.00 TOTAL \$ 137,740.00 Pitkin County Area, 974 Square Miles 35.00 Silver 3,975.00 3,975.00 Lead 2,358.00 2,358.00 Zinc 460.00 460.00 Pueblo County Area, 2,401 Square Miles \$ 244,888.00 Saguache County \$ 244,888.00 Saguache County \$ 4,760.00 Silver 4,223.00 4,223.00 Copper 3,444.00 1,440.00 Lead 9,432.00 1,432.00 TOTAL \$ 21,859.00		
Lead 8,646.00 Zine 63,250.00 TOTAL \$ 137,740.00 Pitkin County Area, 974 Square Miles \$ 35.00 Silver 3,975.00 Lead 2,358.00 Zinc 460.00 TOTAL \$ 6,828.00 Pueblo County Area, 2,401 Square Miles \$ 244,888.00 Saguache County \$ 244,888.00 Saguache County \$ 4,760.00 Silver 4,223.00 Copper 3,444.00 Lead 9,432.00 TOTAL \$ 21,859.00		
TOTAL \$ 137,740.00 Pitkin County Area, 974 Square Miles Gold \$ 35.00 Silver \$ 3,975.00 Lead \$ 2,358.00 Zine \$ 460.00 TOTAL \$ 6,828.00 Pueblo County Area, 2,401 Square Miles Clay \$ 244,888.00 Saguache County Area, 3,144 Square Miles Gold \$ 4,760.00 Silver \$ 4,223.00 Copper \$ 3,444.00 Lead \$ 9,432.00 TOTAL \$ 21,859.00		8,646.00
Pitkin County Area, 974 Square Miles \$ 35.00 Silver 3,975.00 Lead 2,358.00 Zine 460.00 TOTAL \$ 6,828.00 Pueblo County Area, 2,401 Square Miles 244,888.00 Saguache County \$ 244,888.00 Saguache County 4,760.00 Silver 4,223.00 Copper 3,444.00 Lead 9,432.00 TOTAL \$ 21,859.00	Zine	63,250.00
Area, 974 Square Miles \$ 35.00 Silver 3,975.00 Lead 2,358.00 Zinc 460.00 TOTAL \$ 6,828.00 Pueblo County Area, 2,401 Square Miles 244,888.00 Saguache County Area, 3,144 Square Miles 4,760.00 Silver 4,223.00 Copper 3,444.00 Lead 9,432.00 TOTAL \$ 21,859.00		
Gold \$ 35.00 Silver 3,975.00 Lead 2,358.00 Zinc 460.00 TOTAL \$ 6,828.00 Pueblo County Area, 2,401 Square Miles 244,888.00 Saguache County Area, 3,144 Square Miles 4,760.00 Silver 4,223.00 Copper 3,444.00 Lead 9,432.00 TOTAL \$ 21,859.00	TOTAL\$	137,740.00
Silver 3,975.00 Lead 2,358.00 Zinc 460.00 TOTAL \$ 6,828.00 Pueblo County Area, 2,401 Square Miles 244,888.00 Saguache County Area, 3,144 Square Miles 4,760.00 Silver 4,223.00 Copper 3,444.00 Lead 9,432.00 TOTAL * 21,859.00		137,740.00
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TOTAL	Pitkin County Area, 974 Square Miles Gold	35.00
Pueblo County Area, 2,401 Square Miles Clay \$ 244,888.00 Saguache County Area, 3,144 Square Miles Gold \$ 4,760.00 Silver 4,223.00 Copper 3,444.00 Lead 9,432.00 TOTAL \$ 21,859.00	Pitkin County Area, 974 Square Miles Gold	35.00 3,975.00
Area, 2,401 Square Miles Clay \$ 244,888.00 Saguache County Area, 3,144 Square Miles Gold \$ 4,760.00 Silver 4,223.00 Copper 3,444.00 Lead 9,432.00 TOTAL \$ 21,859.00	Pitkin County Area, 974 Square Miles Gold	35.00 3,975.00 2,358.00
Area, 2,401 Square Miles Clay \$ 244,888.00 Saguache County Area, 3,144 Square Miles Gold \$ 4,760.00 Silver 4,223.00 Copper 3,444.00 Lead 9,432.00 TOTAL \$ 21,859.00	Pitkin County Area, 974 Square Miles Gold	35.00 3,975.00 2,358.00 460.00
Clay \$ 244,888.00 Saguache County Area, 3,144 Square Miles Gold \$ 4,760.00 Silver 4,223.00 Copper 3,444.00 Lead 9,432.00 TOTAL \$ 21,859.00	Pitkin County Area, 974 Square Miles Gold \$ Silver Lead Zinc TOTAL \$	35.00 3,975.00 2,358.00 460.00
Saguache County Area, 3,144 Square Miles Gold \$ 4,760.00 Silver 4,223.00 Copper 3,444.00 Lead 9,432.00 TOTAL \$ 21,859.00	Pitkin County Area, 974 Square Miles Gold \$ Silver Lead \$ Zinc TOTAL \$	35.00 3,975.00 2,358.00 460.00
Area, 3,144 Square Miles Gold \$ 4,760.00 Silver 4,223.00 Copper 3,444.00 Lead 9,432.00 TOTAL \$ 21,859.00	Pitkin County Area, 974 Square Miles Gold \$ Silver	35.00 3,975.00 2,358.00 460.00 6,828.00
Gold \$ 4,760.00 Silver 4,223.00 Copper 3,444.00 Lead 9,432.00 TOTAL \$ 21,859.00	Pitkin County Area, 974 Square Miles Gold \$Silver Lead Zinc TOTAL \$ Pueblo County Area, 2,401 Square Miles Clay \$	35.00 3,975.00 2,358.00 460.00 6,828.00
Silver 4,223.00 Copper 3,444.00 Lead 9,432.00 TOTAL \$ 21.859.00	Pitkin County Area, 974 Square Miles Gold \$ Silver Lead \$ Zinc TOTAL \$ Pueblo County Area, 2,401 Square Miles Clay \$ Saguache County	35.00 3,975.00 2,358.00 460.00 6,828.00
Copper 3,444.00 Lead 9,432.00 TOTAL \$21.859.00	Pitkin County Area, 974 Square Miles Gold \$Silver Lead Zinc TOTAL \$ Pueblo County Area, 2,401 Square Miles Clay \$ Saguache County Area, 3,144 Square Miles	35.00 3,975.00 2,358.00 460.00 6,828.00
Lead	Pitkin County Area, 974 Square Miles Gold \$Silver Lead Zinc TOTAL \$ Pueblo County Area, 2,401 Square Miles Clay \$ Saguache County Area, 3,144 Square Miles Gold \$ Solution \$ Saguache County Saguache Solution \$ Sagu	35.00 3,975.00 2,358.00 460.00 6,828.00 244,888.00
TOTAL	Pitkin County Area, 974 Square Miles Gold \$Silver Lead Zinc TOTAL \$ Pueblo County Area, 2,401 Square Miles Clay \$ Saguache County Area, 3,144 Square Miles Gold \$Silver Copper	35.00 3,975.00 2,358.00 460.00 6,828.00 244,888.00 4,760.00 4,223.00 3,444.00
Turquoise (Estimate) \$ 4,500.00 Total Production for County \$ 26,359.00	Pitkin County Area, 974 Square Miles Gold \$Silver Lead Zinc TOTAL \$ Pueblo County Area, 2,401 Square Miles Clay \$ Saguache County Area, 3,144 Square Miles Gold \$Silver Copper	35.00 3,975.00 2,358.00 460.00 6,828.00 244,888.00 4,760.00 4,223.00 3,444.00
Total Production for County \$ 26.359.00	Pitkin County Area, 974 Square Miles Gold \$Silver Lead Zinc TOTAL \$ Pueblo County Area, 2,401 Square Miles Clay \$ Saguache County Area, 3,144 Square Miles Gold \$Silver Copper Lead \$	35.00 3,975.00 2,358.00 460.00 6,828.00 244,888.00 4,760.00 4,223.00 3,444.00 9,432.00
2000 2 20000000 201 0000000000000000000	Pitkin County Area, 974 Square Miles Gold \$Silver Lead Zinc TOTAL \$ Pueblo County Area, 2,401 Square Miles Clay \$ Saguache County Area, 3,144 Square Miles Gold \$Silver Copper Lead \$ TOTAL \$	35.00 3,975.00 2,358.00 460.00 6,828.00 244,888.00 4,760.00 4,223.00 3,444.00 9,432.00 21,859.00

Area, 392 Square Miles 94,150.00	San Juan County		
Silver		4.	0115000
Copper			
Lead 374,660.00 133,860.00 TOTAL \$ 787,210.00 Tungsten \$ 12,000.00 Total Production for County \$ 799,210.00 San Miguel County \$ 799,210.00 San Miguel County \$ 799,210.00 Silver 702,759.00 Copper 1,119,300.00 Lead 2,076,088.00 Zinc 2,399,590.00 TOTAL \$ 7,712,297.00 Tungsten \$ 6,693.00 Total Production for County \$ 7,718,990.00 Summit County \$ 7,718,990.00 Summit County \$ 7,718,990.00 Silver 43,285.00 Copper 9,184.00 Lead 314,400.00 Zinc 276,000.00 TOTAL \$ 661,174.00 Angganese \$ 3,500.00 Total Production for County \$ 664,674.00 Teller County \$ 1,804,565.00 Silver 9,082.00 Total Production for County \$ 1,804,565.00 Silver 9,082.00 Feldspar \$ 9,800.00 Nonumental Stone 22,680.00 Peat 3,171.00 TOTAL \$ 1,813,647.00 Peat 3,171.00 TOTAL \$ 35,651.00 TOTAL \$ 1,813,647.00 Peat 3,171.00 TOTAL \$ 35,651.00 TOTAL \$ 35,651.00			
TOTAL			
TOTAL			374,660.00
Tungsten Total Production for County San Miguel County Area, 1,283 Square Miles Gold Silver Copper 1,119,300.00 Copper 1,119,300.00 Lead 2,076,088.00 Zinc TOTAL 5,7712,297.00 Tungsten 5,6,693.00 Total Production for County Area, 615 Square Miles Gold Silver 43,285.00 Copper 9,184.00 Lead 314,400.00 Zinc TOTAL 5,7712,297.00 Summit County Area, 615 Square Miles Gold Silver 43,285.00 Copper 9,184.00 Lead 314,400.00 Zinc TOTAL 4661,174.00 Manganese 5,3,500.00 Total Production for County Feldspar Area, 554 Square Miles Gold Silver 5,1843,647.00 TOTAL 5,1843,647.00 Feldspar 9,082.00 Monumental Stone Peat 5,2680.00 Peat 5,2680.00 Peat 5,2680.00 Part 5,2651.00	Zine	-	133,860.00
Total Production for County \$799,210.00			787,210.00
San Miguel County	Tungsten	.\$	12,000.00
Area, 1,283 Square Miles	Total Production for County	.\$	799,210.00
Area, 1,283 Square Miles	San Miguel County		
Gold \$ 1,414,560.00 Silver 702,759.00 Copper 1,119,300.00 Lead 2,076,088.00 Zine 2,399,590.00 TOTAL \$ 7,712,297.00 Tungsten \$ 6,693.00 Total Production for County \$ 7,718,990.00 Summit County Area, 615 Square Miles \$ 18,305.00 Gold \$ 18,305.00 Silver 43,285.00 Copper 9,184.00 Lead 314,400.00 Zine 276,000.00 TOTAL \$ 661,174.00 Manganese \$ 3,500.00 Total Production for County \$ 664,674.00 Teller County Area, 554 Square Miles \$ 1,804,565.00 Silver 9,082.00 TOTAL \$ 1,813,647.00 Feldspar \$ 9,800.00 Monumental Stone 22,680.00 Peat 3,171.00			
Silver 702,759.00 Copper 1,119,300.00 Lead 2,076,088.00 Zine 2,399,590.00 TOTAL \$ 7,712,297.00 Tungsten \$ 6,693.00 Total Production for County \$ 7,718,990.00 Summit County Area, 615 Square Miles 43,285.00 Copper 9,184.00 Lead 314,400.00 Zine 276,000.00 TOTAL \$ 661,174.00 Manganese \$ 3,500.00 Total Production for County \$ 664,674.00 Teller County Area, 554 Square Miles 9,082.00 Silver 9,082.00 Feldspar \$ 9,800.00 Monumental Stone 22,680.00 Peat 3,171.00 TOTAL \$ 35,651.00		\$	1.414.560.00
Copper Lead 1,119,300.00 Zine 2,076,088.00 Zine 2,399,590.00 TOTAL \$ 7,712,297.00 Tungsten \$ 6,693.00 Total Production for County \$ 7,718,990.00 Summit County Area, 615 Square Miles 60ld Gold \$ 18,305.00 Silver 43,285.00 Copper 9,184.00 Lead 314,400.00 Zine 276,000.00 TOTAL \$ 661,174.00 Manganese \$ 3,500.00 Total Production for County \$ 664,674.00 Teller County Area, 554 Square Miles 9,082.00 Silver 9,082.00 Feldspar \$ 9,800.00 Monumental Stone 22,680.00 Peat 3,171.00			702 759 00
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TOTAL \$ 7,712,297.00	+ +		
TOTAL \$ 7,712,297.00 Tungsten \$ 6,693.00 Total Production for County \$ 7,718,990.00 Summit County Area, 615 Square Miles Gold \$ 18,305.00 Silver 43,285.00 Copper 9,184.00 Lead 314,400.00 Zine 276,000.00 TOTAL \$ 661,174.00 Manganese \$ 3,500.00 Total Production for County \$ 664,674.00 Teller County Area, 554 Square Miles Gold \$ 1,804,565.00 Silver 9,082.00 TOTAL \$ 1,813,647.00 Feldspar \$ 9,800.00 Monumental Stone 22,680.00 Peat 3,171.00			2 399 590 00
Tungsten \$ 6,693.00 Total Production for County \$ 7,718,990.00 Summit County Area, 615 Square Miles Gold \$ 18,305.00 Silver \$ 43,285.00 Copper \$ 9,184.00 Lead \$ 314,400.00 Zine \$ 276,000.00 TOTAL \$ 661,174.00 Manganese \$ 3,500.00 Total Production for County \$ 664,674.00 Teller County Area, 554 Square Miles Gold \$ 1,804,565.00 Silver \$ 9,082.00 TOTAL \$ 1,813,647.00 Feldspar \$ 9,800.00 Monumental Stone \$ 22,680.00 Peat \$ 3,171.00			
Tungsten \$ 6,693.00 Total Production for County \$ 7,718,990.00 Summit County Area, 615 Square Miles Gold \$ 18,305.00 Silver \$ 43,285.00 Copper \$ 9,184.00 Lead \$ 314,400.00 Zine \$ 276,000.00 TOTAL \$ 661,174.00 Manganese \$ 3,500.00 Total Production for County \$ 664,674.00 Teller County Area, 554 Square Miles Gold \$ 1,804,565.00 Silver \$ 9,082.00 TOTAL \$ 1,813,647.00 Feldspar \$ 9,800.00 Monumental Stone \$ 22,680.00 Peat \$ 3,171.00	TOTAL.	\$	7,712,297.00
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Area, 615 Square Miles \$ 18,305.00 Silver 43,285.00 Copper 9,184.00 Lead 314,400.00 Zine 276,000.00 TOTAL \$ 661,174.00 Manganese \$ 3,500.00 Total Production for County \$ 664,674.00 Teller County Area, 554 Square Miles \$ 1,804,565.00 Silver 9,082.00 TOTAL \$ 1,813,647.00 Feldspar \$ 9,800.00 Monumental Stone 22,680.00 Peat 3,171.00 TOTAL \$ 35,651.00	Total Production for County	.\$	7,718,990.00
Area, 615 Square Miles \$ 18,305.00 Silver 43,285.00 Copper 9,184.00 Lead 314,400.00 Zine 276,000.00 TOTAL \$ 661,174.00 Manganese \$ 3,500.00 Total Production for County \$ 664,674.00 Teller County Area, 554 Square Miles \$ 1,804,565.00 Silver 9,082.00 TOTAL \$ 1,813,647.00 Feldspar \$ 9,800.00 Monumental Stone 22,680.00 Peat 3,171.00 TOTAL \$ 35,651.00	Summit County		
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Silver 43,285.00 Copper 9,184.00 Lead 314,400.00 Zine 276,000.00 TOTAL \$ 661,174.00 Manganese \$ 3,500.00 Total Production for County \$ 664,674.00 Teller County Area, 554 Square Miles \$ 1,804,565.00 Silver 9,082.00 TOTAL \$ 1,813,647.00 Feldspar \$ 9,800.00 Monumental Stone 22,680.00 Peat 3,171.00 TOTAL \$ 35,651.00	*	ф	10.007.00
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TOTAL \$ 661,174.00 Manganese \$ 3,500.00 Total Production for County \$ 664,674.00 Teller County Area, 554 Square Miles Gold \$ 1,804,565.00 Silver \$ 9,082.00 TOTAL \$ 1,813,647.00 Feldspar \$ 9,800.00 Monumental Stone \$ 22,680.00 Peat \$ 3,171.00			
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Manganese \$ 3,500.00 Total Production for County \$ 664,674.00 Teller County Area, 554 Square Miles \$ 1,804,565.00 Gold \$ 1,804,565.00 Silver 9,082.00 TOTAL \$ 1,813,647.00 Feldspar \$ 9,800.00 Monumental Stone 22,680.00 Peat 3,171.00 TOTAL \$ 35,651.00	TOTAL	_\$	661.174.00
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Gold \$ 1,804,565.00 Silver 9,082.00 TOTAL \$ 1,813,647.00 Feldspar \$ 9,800.00 Monumental Stone 22,680.00 Peat 3,171.00 TOTAL \$ 35,651.00	· · · · · · · · · · · · · · · · · · ·		
Silver 9,082.00 TOTAL \$ 1,813,647.00 Feldspar \$ 9,800.00 Monumental Stone 22,680.00 Peat 3,171.00 TOTAL \$ 35,651.00		ds	1 001 505 00
TOTAL \$ 1,813,647.00 Feldspar \$ 9,800.00 Monumental Stone \$ 22,680.00 Peat \$ 3,171.00			
Feldspar \$ 9,800.00 Monumental Stone 22,680.00 Peat 3,171.00 TOTAL \$ 35,651.00	Silver	-	9,082.00
Feldspar \$ 9,800.00 Monumental Stone 22,680.00 Peat 3,171.00 TOTAL \$ 35,651.00	TOTAL	\$	1 813 647 00
Monumental Stone 22,680.00 Peat 3,171.00 TOTAL \$ 35,651.00	Feldsnar	+ +	9.800.00
Peat	Monumental Stone	-47	22,680,00
TOTAL \$ 35,651.00			
TOTAL \$ 35,651.00 Total Production for County \$ 1,849,298.00			0,111.00
Total Production for County	TOTAL	-\$	35,651.00
	Total Production for County	.\$	1,849,298.00

PRODUCTION IN 1953

Production figures given are as accurate as we believe possible to get under existing conditions. No actual or accurate production of uranium produced within the State can be given as such information is restricted and not released by the Atomic Energy Commission.

Production in value of gold, silver, lead, zinc and copper were provided by the Mineral Industry Division of the United States Bureau of Mines, Region IV, and crude oil production figures were provided by the Colorado Oil and Gas Conservation Commission. All other production figures are from the records of the Colorado Bureau of Mines and have been obtained from the mining operators of the State.

In spite of the very serious drop in the production of lead and zinc, the mineral production of the State continued to increase. The accelerated mining program at the Climax Mine alone made up for more than two-thirds of the production loss caused by the drop of lead and zinc mining.

The increase in the production of tungsten and other metals, plus the general increase of the non-metallic minerals produced took up most of the loss suffered by the decline as noted above.

The oil industry continued its upward surge and the increase in petroleum products in 1953 amounted to more than \$17,000,000. Approximately 750 wells were drilled in 1953, with 366 of them being wildcats. One new major oil pool was discovered in the Denver-Julesburg Basin and a new gas field in southeastern Colorado. Of the 366 wildcats drilled, 28 discovered oil, 13 gas and the balance were dry holes. The percentage of successful wildcat holes was 11.2 of the total drilled. At the end of the year it was reported that Colorado had a total of 1,225 producing wells in 76 different oil fields. Rangely, Rio Blanco County, in northwestern Colorado, continues to be the most productive oil field in the State.

The following table shows the steady increase of all mineral production for the past four years.

_	•		
Metals	Non-Metallics	Oil & Gas	Total
\$ 43,619,318	\$ 3,930,578	\$58,382,500	\$105,932,396
63,312,690	4,823,869	70,453,050	138,589,609
117,039,055	12,681,789	80,563,705	210,284,549
138,765,509	14,027,866	97,287,265	250,080,640
	\$ 43,619,318 63,312,690 117,039,055	\$ 43,619,318 \$ 3,930,578 63,312,690 4,823,869 117,039,055 12,681,789	\$ 43,619,318 \$ 3,930,578 \$58,382,500 63,312,690 4,823,869 70,453,050 117,039,055 12,681,789 80,563,705

METAL PRODUCTION

1953

Uranium (Mining and processing with Vanadium	
by-products—Value to State)\$	75,000,000.00
Molybdenum	37,306,341.00
Zinc	8,684,570.00
Lead	5,686,710.00

Gold Tungsten Silver Copper Miscellaneous (Metals which cannot be separated for Production Value) Pyrite Beryllium Tin Manganese TOTAL NON-METALLIC PRODUCTION 1953	- - - -	4,172,420.00 2,811,064.00 1,987,614.00 1,687,560.00 1,103,750.00 207,148.00 98,775.00 14,707.00 4,850.00
Alabaster	ф	7,000.00
Calaium Phosphata	-Ф	1,709.00
Calcium Phosphate		5,198,703.00
Clays		890,381.00
Dolomite		127,344.00
Feldspar		663,901.00
Fluorspar		2,790,146.00
Gypsum		366,456.00
Lepidolite		27,000.00
Limestone		3,071,608.00
Marble		21,837.00
Mica		99,715.00
Monazite		3,307.00
Peat		31,071.00
Perlite		52,792.00
Silica Rock		74,509.00
Stone, Building		449,365.00
Stone, Crushed		28,320.00
Stone, Monumental		42,702.00
Turquoise	-	4,500.00
Volcanic Cinders	-	75,500.00
TOTAL	.\$	14,027,866.00
OIL AND GAS PRODUCTION		
1953		
		91,697,265.00
Gas, all classes (well-head value)		5,590,000.00
TOTAL	d.	97 287 265 00
Metals	ф.	138 765 509 00
Oil and Gas	-¢P.	97,287,265.00
Non-Metallics		14,027,866.00
TOTAL MINERAL PRODUCTION	.\$2	250,080,640.00

ACCIDENTS

There were eight mining fatalities in 1953 which establishes a record of safety for the past fifteen years, as the average rate of metal mine fatalities for the fifteen year period, 1939-1953, has been sixteen per year. Oil well fatalities for the year were four and there was one fatality chargeable to construction.

As the records of oil and construction fatalities were not always considered under the jurisdiction of the Bureau of Mines, there is no basis of comparison between the fifteen year period and the year 1953. However, other records indicate that oil well fatalities have been about the same and the previous fatality rate in the construction industry considerably higher.

Of the eight metal mining fatalities, four were caused by falling rock, three were caused by falls into open holes and one caused by a premature blast.

Three of the four oil well fatalities were caused by falling objects and one was caused by an entanglement in a hoisting line.

The one construction accident was caused by falling bricks while tearing down part of an old building.

Both the frequency and severity rates were lowered during the year and indicate better mine inspection, plus more interest in the safety by management and by men employed in the mineral industries. Frequency rate of accidents decreased in all mineral industries except underground metal mines and quarries during the year and the severity rate decreased by a considerable amount in all operations except rock quarries. Both the frequency and severity rates based upon those of the past years show a remarkable drop and it is the hope of the Bureau of Mines that these rates can continue to decrease.

The number of man-hours worked in all mineral industries was about the same as 1952, yet the average total frequency rate for 1953 was only 42 and the severity rate 4.27, this compares with 54 and 6.61 for 1952.

Severity

Frequency

SUMMARY OF ACCIDENTS—1953

rate per one million man hours	91.	86.6	.36	66.		7.70		4.27
rate per one million man hours	16	66	31	16	25	52	- Control of the Cont	45
Number of days lost	655	65,942	314	8,646		27,320		103,151
Lost time injuries	26	655	67	142	\$1 \$1	185		1,087
Total man hours				Mills, Smelters, Plants, etc 8,736,960	State and Federal Projects 887,936	Oil Wells 3,550,000		Total24,154,624

This table includes the loss of 78,000 days due to 13 fatalities and 12,425 days due to 31 permanent partial disabilities.

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Francionos	Tollan hora

time charges in days	f man-hours of exposu
Total	No. of
Serverity rate-	Serving race

FATAL ACCIDENTS—1953

	Cause of Death	Crushed by failing rock.	Crushed by falling rock.	Crushed by falling rock.	Fell down raise	Fell from ladder into shaft	Premature blast	Crushed by falling rock		Crushed by falling elevator guard	Crushed by 1alling arill pipe Crushed by fall of pull-back weight	Caught in hoisting line		Crushed by falling bricks
Metal Mining	Employed By Telluride Mines. Inc.	Cresson Consolidated Gold Mining Company	Ozark-Mahoning Company	Idarado Mining Company	Idarado Mining Company	William N. Bersonnet, Jr. (Father)	Telluride Mines, Inc.	Mile High Mining Company	Oil Wells	Mountain States Drilling Company	Twin T. Drilling Company Aranaboe Drilling Company	S. D. Johnson Drilling Company	Construction	Rocky Mountain Oil & Paving Company
	Name of Person Herbert Dale, Jr.	William M. Lewis	George M. Thomas	Leo Whittaker	J. R. Medina	William N. Bersonnet, III	Ben Padilla	Thomas O. Porter		LeRoy Helms	Amos A. Carson Harold F. Reirow	Robert G. Patrick		C. C. Abbott
	Date 3-23-53	4-17-53	4-26-53	1-11-53	7-30-53	9-16-53	11-15-53	12-11-53		2-16-53	19-16-53	12-16-53		6-28-53

AGENCY CAUSING ACCIDENT

	Temporary Injuries
Mines, Surface	Loss of one day
•	or more
Cable - Hose - Ropes	1
Cars - Motors - Vehicles	
Chemicals	
Drills - Drilling Equipment	17
Dust and Particles	1
Falls	10
Falling or Flying Objects	5
Flames - Fire - Hot Substances	3
Hoists - Hoisting Apparatus	1
Machinery	2
Materials	
Metal Objects	
Timber - Lumber - Poles	
Total	56
Quarries	
Bars - Bins - Chutes	2
Cars - Motors - Vehicles	$\frac{1}{4}$
Dust and Particles	
Falls	
Falling or Flying Objects	
Flames - Fire - Hot Substances	
Machinery	
Rock - Ore - Ground	2
Total	27

AGENCY CAUSING ACCIDENT

Mines, Underground	Fatals	Temporary Injuries Loss of one day or more
Bars - Bins - Chutes		12
Cables - Hose - Ropes		9
Cars - Motors - Vehicles		108
Chains - Gears -Sprockets		2
Belts - Conveyors - Pulleys		1
Containers		3
Chemicals		10
Doors - Windows - Gates		2
Drills - Drilling Equipment		45
Dust and Particles		33
Explosives - Loading, Firing		1
Electricity - Elec. Equipment		2
Falls	. 4	64
Falling or Flying Objects	. 3	168

Mines, Underground—Continued	Fatals	Temporary Injuries Loss of one day or more
Flames - Fire-Hot Substances		9
Hoists - Hoisting Apparatus		19
Ladders - Manways		2
Machinery		43
Materials		20
Metal Objects		38
Platforms - Staging - Scaffolds		1
Premature or delayed blasts	1	11
Rock - Ore - Ground		18
Shovels, power		1
Timber - Lumber - Poles		22
Unclassified - Insufficient Data		3
Total	8	$\phantom{00000000000000000000000000000000000$

AGENCY CAUSING ACCIDENT

		Temporary Injuries Loss of one day
Mills, Smelters, Plants, etc.	Fatals	or more
Bars - Bins - Chutes		1
Cables - Hose - Ropes		1
Cars - Motors - Vehicles		6
Chains - Gears - Sprockets		1
Belts - Conveyors - Pulleys		5
Containers		11
Chemicals		13
Doors - Windows - Gates		3
Drills - Drilling Equipment		2
Dust and Particles		2
Electricity - Elec. Equipment		1
Falls		27
Falling or Flying Objects		13
Flames - Fire - Hot Substances		7
Hoists - Hoisting Apparatus		$\overline{2}$
Ladders - Manways		5
Machinery		15
Materials		15
Metal Objects		3
Platforms - Staging - Scaffolds		2
Rock - Ore - Ground		3
Screens		2
Timber - Lumber - Poles		1
m		
Total	1	141 142

AGENCY CAUSING ACCIDENT

State and Federal Projects	Temporary Injuries Loss of one day or more
Bars - Bins - Chutes	. 1
Cables - Hose - Ropes	. 1
Cars - Motors - Vehicles	. 1
Containers	. 1
Dust and Particles	
Falls	. 4
Falling or Flying Objects	. 3
Machinery	
Materials	
Metal Objects	
Total	. 22

AGENCY CAUSING ACCIDENT

Oil Wells	Fatals	Temporary Injuries Loss of one day or more
Cables - Hose - Ropes		4
Cars - Motors - Vehicles		$\overset{\mathtt{l}}{2}$
Chains - Gears - Sprockets		10
Belts - Conveyors - Pulleys		2
Containers		$\frac{1}{2}$
Chemicals		$\bar{2}$
Derricks - Headframes		$\overline{21}$
Drills - Drilling Equipment		43
Dust and Particles		5
Electricity - Elec. Equipment		1
Falls		14
Falling or Flying Objects	~ 2	29
Flames - Fire - Hot Substances		10
Machinery	. 1	18
Materials		12
Metal Objects		4
Timber - Lumber - Poles		2
Totals	. 4	181 185

MINES, SURFACE

	Temporary Injuries
	Loss of one day
Type of Injury	or more
Burns	3
Caught in or between	10
Fall on the same level	
Fall on different level	2

Type of Injury—Continued

Handling		. 9	
Striking against - Struck by		. 22	
Slip - Stepping on			
M . 4 - 1			
Total		. 56	
Nature of Injury			
Foreign Bodies			
Cuts - Bruises - Lacerations - Puncture			
Strains - Sprains - Dislocation			
Hernia			
Fractures			
Burns - Scalds			
Occupational Disease		. 1	
Total		. 56	
Site of Injury			
Eye		. 2	
Head - Face - Neck			
Trunk			
Upper Extremities		. 17	
Lower Extremities		. 19	
General		. 2	
Total		. 56	
MINES, UNDERG	ROUND	<i>m</i>	
		Temporary In Loss of one	juries dav
Type of Injury	Fatals	or more	ary
Burns		12	
Caught in or between		101	
Fall on the same Level		42	
Fall on different Level		25	
Handling		92	
Inhalation - Suffocation		10	
Striking against - Struck by		329	
Slip - Stepping on		36	*************
Totals	. 8	647	655
Nature of Injury			
Foreign Bodies		1.1	
		44	
Cuts - Bruises - Laceration - Punctures Strains - Sprains - Dislocation	s 1	338 122	

Nature of Injury—Continued

Hernia Fractures Amputation Burns - Scalds Occupational Disease Nature Unknown Totals	7	$ \begin{array}{r} 14 \\ 83 \\ 21 \\ 12 \\ 11 \\ 2 \\ \hline 647 \end{array} $	655
Site of Injury Eye Head - Face - Neck Trunk Upper Extremities Lower Extremities General	2	53 41 183 153 187 30	
Totals	8	647	655
QUARRIES		Temporary In	juries
Type of Injury		Loss of one or more	aay
Burns		. 1	
Caught in or between		. 2	
Fall on the same Level		. 3	
Fall on different Level		$\frac{1}{6}$	
Handling Striking against - Struck by		. 13	
Slip - Stepping on			
one stopping on			
Total		. 27	
Nature of Injury			
Foreign Bodies		. 3	
Cuts - Bruises - Laceration - Punctures		. 8	
Strains - Sprains - Dislocation			
Fractures			
Burns - Scalds		. 1	
Total		27	
Site of Injury			
Eye		. 2	
Head - Face - Neck			
Trunk			
Upper Extremities			
HOWEL TANTEMITTES	************	. 0	
Total		. 27	

MILLS AND SMELTERS

		Temporary Inj	
Type of Injury	Fatals	Loss of one of or more	lay
Burns		18	
Caught in or between		17	
Fall on same Level		25	
Fall on different Level		2	
Handling		28	
Inhalation - Suffocation		1	
Striking against - Struck by	. 1	$\begin{array}{c} 38 \\ 12 \end{array}$	
Slip - Stepping on		12	
Totals	. 1	141	142
Nature of Injury			
Foreign Bodies		4	
Cuts - Bruises - Laceration - Punctures		41	
Strains - Sprains - Dislocation		50	
Hernia		6	
Fractures		19	
Amputation		2	
Burns - Scalds		18	
Occupational Disease		1	
Totals	. 1	141	142
Site of Injury			
Eye		10	
Head - Face - Neck		11	
Trunk		58	
Upper Extremities		23	
Lower Extremities		36	
General	. 1	3	
m , 1		1.11	140
Totals	. 1	141	142

STATE AND FEDERAL PROJECTS

	Temporary Injuries
	Loss of one day
Type of Injury	or more
Caught in or between	2
Fall on the same Level	2
Handling	4
Striking against - Struck by	. 11
Slip - Stepping on	
Total	. 22
Nature of Injury	
Foreign Bodies	2
Cuts - Bruises - Laceration - Punctures	9

Nature of Injury—Continued			
Strains - Sprains - Dislocation		. 8	
*			
Fractures		. 0	
Watal		22	
Total		. 44	
Site of Injury			
Eye		. 3	
Head - Face - Neck		. 1	
Trunk		. 8	
Upper Extremities			
Lower Extremities			
Dower Extremities		. 0	
Total		22	
10041		. 44	
OIL WEL	LS		
		Temporary In	juries
Maria of Training		Loss of one	day
Type of Injury	Fatals	or more	
Burns		12	
Caught in or between		42	
Fall on the same Level		17	
Handling		15	
Inhalation - Suffocation		1	
Striking against - Struck by	4	92	
Slip - Stepping on		2	
Totals	4	181	185
Nature of Injury			
Foreign Bodies		9	
Cuts - Bruises - Laceration - Punctur		78	
Strains - Sprains - Dislocation		27	
Fractures		49	
Amputation		7	
Burns - Scalds		11	
Totals	4	181	185
Site of Toriona			
Site of Injury			

	11	
.3	21	
,	29	
	64	
	55	
1	1	
4	181	185
		29 64 55

MEN EMPLOYED-1953

Total number of men employed in the mineral industries which are inspected by the Colorado Bureau of Mines is the largest since the year 1938.

Due to greater mechanization in some of the larger metal mines and due to the completion of several large surface and milling plants and, further, due to the uncertainty of the precious and base metal prices and other handicaps, the total number of men employed in the mineral industry probably will begin to decline within the coming year.

	M No.	ines Men	Sme	ills elters Men	Clay I		Pla	cers Men	Proj- ects Men	Oil Wells Men
District 1	107	468	22	313	37	217	9	20	199	1200
District 2	33	278	6	90	54	223	1	2	167	100
District 3	56	2476	16	1116	12	73	3	6	107	650
District 4	215	1905	18	2178					279	175
TOTAL	411	5127	62	3697	103	513	13	28	752	2125

TOTAL MEN EMPLOYED

District	No.	One	2,417
District	No.	Two	860
District	No.	Three	4,428
District	No.	Four	4,537
	T(OTAL	12,242

INSPECTIONS

During the year 1953 the district mine inspectors made 850 full inspections with written reports. In addition to this, there were 250 partial written reports which required a return to some property previously inspected to determine whether or not safety recommendations that had been made were carried out and completed.

This is an increase of approximately 65 inspections over the year before and really establishes an unusual record when it is considered that some of the mines inspected by the inspectors require from three to five days to completely go over the property and that other small mines are so widely scattered that frequently an inspector has to drive as much as one hundred miles to make an inspection of what is considered an adjoining property.

For the work days during the year each inspector averages approximately one complete written inspection per day.

In addition to inspections, the mine inspectors gave short talks on accident prevention and mine safety in various sections of the state and also taught several mine first aid classes.

1953 INSPECTIONS MADE BY

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

	District 1	District 2	District 3	District 4	
1953	Chapman	Theobald	Doyle	Franz	Total
January	15	15	2	38	70
February	11	5	14	24	54
March .	25	15	19	21	80
April	28	10	22	33	93
May	29	4	18	46	97
June	31	5	22	25	83
July	18	7	16	20	61
August .	33	12	15	21	81
Septembe	er 11	-8	29	27	75
October	21	7	13	26	67
Novembe	r 14	7	7	22	50
December	r18	2	10	9	39
	254	97	187	312	850

INSPECTIONS IN 1953

		Mines	Quarries Clay Mines	Mills Smelters	Placers	Projects	Oil Wells	Total
District	1		33	21	10	4	69	254
District	2	24	50	5	3	4	11	97
District	3	80	1.8	36	6	16	31	187
District	4	264		28		9	11	312
				_		—		
		485	101	90	19	33	122	850

mr

mr

LIST OF OPERATING MINES IN VARIOUS COUNTIES IN COLORADO—1953 OPERATING MINES IN BOULDER COUNTY

Product Fluorspar Fluorspar Exploration le.TungstenDavelopmentExplorationTungsten
Name of Mine
本 4 百 首 音音でき りょうりゅう

			Lead	Copper
Rafter Lease Sugarloaf Paul Ruhter Rocky Mtn. Mng. & M. Co. 1734 Walnut St., Boulder Tungsten Supartan Supartan Fluorspar Fluorspar Surprise Ward Albert Raseler 517-15th St., Boulder Exploration Tungsten Nederland Tungsten Tungsten Tungsten Vasco No. 1 Tungsten Tungsten Tungsten Tungsten Vasco No. 5 Tungsten Robit Plummer Tungsten Victor 630 Spruce St., Boulder Tungsten Victor Nederland P. H. Bennett Exploration Victor Nederland P. H. Bennett Tungsten	Name of Mine Location Operator Product American Brown Canyon Gen'l, Chem. & Dye Corp. Box 550, Salida. Fluorspar Josephine Lode Buena Vista. Josephine Lode & Dev. Co. Box 392, Buena Vista. Exploration MacKeen Claim Taylor Mtn. Harold MacKeen. 542 G Street. Salida. Development Madonna Monarch Utze Lode Company. Box 560, Salida. Exploration Mary Murphy. St. Elmo. S. E. & W. E. Burleson Box 209, Salida. Lead, Zinc.	Fluorspar (m) Poncha Reynolds Mining Company Box 169, Salida Fluorspar St. Anne & St. Joseph McGee John Klaes 340 Grove St., San Francisco, Calif Development Sedalla Salida New Jersey Zinc Co Gilman Gilman Exploration U. S. Fluorspar Saymour Mining Company Vancouver, B. C Exploration	Name of Mine Location Operator Alma Lincoln. Diamond Joe. Dixie (m) Freighter's Friend Goloonda Tunnel. Freighter's Friend Colorado Springs. Gold Silver, Lead, Zinc Goloonda Tunnel. Freighter's Friend Goloonda	

OPERATING MINES IN CLEAR CREEK COUNTY, 1953—Continued

Product	Development Development Exploration Development
P. O. Address	Westcliffe Development Silver Cliff Development Bar 749, Canon City Exploration Box 184, Westcliffe Development 2133 W. 11th Street, Pueblo Development
Operator	
Location	Suckeye Westcliffe Buckeye Mining Co Sefender Mining Co Assillora (Herman Shaft). Westcliffe Passiflora Mining Co Spruce Creek Tantalizer Mining Co on Boy Ophir Creek. Chas. & Lyman Akin.
Name of Mine	Buckeye

OPERATING MINES IN DELITA COUNTY

Product	eltaSulphur	
P. O. Address	0 Main Street, Del	
	. Co41	
,L	Mining & Mfg.	
Operato	Atlas Min	
Location	Delta	
Name of Mine	DotyDelta	

OPERATING MINES IN DOLORES COUNTY

	Zinc	Zinc	Zinc		Zinc
Product	Silver, Lead,	Silver, Lead,	Silver, Lead,	Exploration	Silver, Lead,
P. O. Address			Rico Argentine Mining CoRicoRich Zinc		
P.	Ining CoRico	Ining CoRico	Ining CoRico	ssociatesRico	Ining CoRico
Operator	Rico Argentine A	Rico Argentine 1	Rico Argentine 1	Myron Jones & A	Rico Argentine N
Location	Rico	RicoRico Argentine Mining Co	Rico	Rico	Rico
Name of Mine	Argentine (m)	Mountain Springs	Silver Swan	St. Louis ClaimRicoMyron Jones & AssociatesRicoExploration	St. Louis Tunnel

OPERATING MINES IN EAGLE COUNTY

ProductLead, Zinc, Silver. CopperExploration ProductDevelopment ,	ProductUraniumOil Shale	er		
P. O. Address SionGilman Box 901, Leadville N. FREMONT COUNTY P. O. Address Cotopaxi Cotopaxi 1528 E. Orman St., Pueblo	IELD COUNTY P. O. Address Silt Rifle	PIN COUNTY P. O. Address, G. C. Ridland, 405 Interstate Trust Bldg., Denver	Central City. Central City. 1009-17th Street, Denver. Central City. 405 Interstate Trust Bidg., Denver. D. J. Yound, 810-10th Street	Black Hawk Central City Black Hawk Black Hawk Black Hawk Central City Central City Back 269, Boulder Central City Black Hawk 629 & 6th Ave. Mt. Vernon, N. Y T. E. Toney, Central City
Location Operator GilmanNew Jersey Zinc Co., Empire Zinc DivisionGilman Gold ParkSwigert & RandallBox 901, Leady OPERATING MINES IN FREMONT COUNTY Location Operator P. O. Address Cotopaxi	OPERATING MINES IN GARFIELD COUNTY Operator E. O. Addres W. L. WeaverSiltU. S. Bureau of MinesRifle	OPERATING MINES IN GILPIN COUNTY Operator Consider the Corp. P. O. Addr Consider the Corp. S. G. C. Ridl State Trus Orange Creek Corp. C. C. Ridl Orange Creek Corp. C. C. Ridl Orange Creek Corp. C. C. C. Ridl	Wm. C. Kussell, Jr	Hawkeye Dist. Mae Woods. Nevadaville Wm. C. Russell, Jr. Black Hawk. Jack Turner. Central City. Faye Shobert. Folland Packer Son Hackey Central City. Wm. Fackler Black Hawk. Mike McNulty. Missouri Gulch. Geo. F. Rubicco.
Name of Mine Location Eagle (m)Gilman MorningGold Park OPE Name of Mine Location CotopaxiCotopaxi Jack of DiamondsCopper Gulch.	OPE Name of Mine Location End of the Trail New Castle Oil Shale (Plant) Rifle	Name of Mine Location AlpsQuartz Hill CalnounQuartz Hill Canandajqua	(Mae West Tunnel)Central City Carroll Cherokee Cherokee Essex Central City. Gureka Essex Central City. German Quartz Hill Gold Rock (Springdale)Russell Gulch	Indianola Hawkeye Dist. Lamberson & Warren Nevadaville Little Colonel Black Hawk Lone Star Lode North Clear Cre Lost Gold Mine Central City Mackey Tolland Hackey Tolland Harbil Gate Tunnel Black Hawk Twin Butte No. 2 Missouri Gulch We-Got-Em

OPERATING MINES IN GUNNISON COUNTY, 1953

Operator Titanium Actynite Corp	Adolph Poston4th & Macon, Canon CityMichrolite, Lepidolite, Beryllium	Kanarado Mng. & Dev. Co500 Sumner Avenue, Littleton.Gold, Silver, Lead Hugh CorriganAlmontDevelopment	.U. S. Tungsten Co	PowderhornRare Earth Mining Co320 Equitable Bldg., DenverDevelopment
Name of Mine Location Operator AbberitePowderhorn Titanium AkronSargentsCallahan Z	Brown DerbyAdolp	Carter (m)Ohio CityKanar Trop, Rock GroupTincupHugh		Little Johnny GroupPowderhornRare

OPERATING MINES IN HINSDALE COUNTY

Product	Development
P. O. Address	Lake CityC. J. Van BuskirkLake CityDevelopment Hensen CreekIdarado Mining CoOurayDevelopment
Operator	C. J. Van Buskirk
Location	Lake City Hensen Creek
Name of Mine	Hoosier BoyLake CityC. J. Van Buskirk Ute & UlayHensen CreekIdarado Mining Co

OPERATING MINES IN JACKSON COUNTY

ProductFluorspar	
Name of Mine Location Operator P. O. Address Product Northgate (Q) (M)North GateOzark Mahoning Mining CoCowderyFluorspar	VINION MOSAGAGA IN PAINT DAINT ONTO A GAGO
Operator Ozark Mahoning M	T PHINE DITTE
LocationNorth Gate	OBER
Name of Mine Northgate (Q) (M)	

OPERATING MINES IN JEFFERSON COON

	it Feldspar	
Fronner	Developmen Feldspar Uranium Beryl-Mica,	
F. O. Address	Leyden Moreno Cripple Greek Corp. 1009-17th Street, Denver Peeldspar Mines Corp. 207 Boyd Street, Denver Uranium Feldspar Ealston Creek. Fred Schwartzwalder 207 Boyd Street, Golden Uranium Feldspar Indian Hills. Tall Timber Mining Co. Morrison Beryl-Mica, Feldspar	
Operator	Moreno Cripple C Kirkland Mines C Fred Schwartzwa	
Location	LeydenBuffaloRalston CreekIndian Hills	
Name of Mine	Leyden Shaft Oregon Pit Schwartzwalder Tall Timber	

OPERATING MINES IN LAKE COUNTY

i., LeadvilleG Vd., SaliforniaI					
Name of Mine Location Operator P. O. Address Irroduct Anthoch Claim Johnny Hill Froelich C. Kaiser 106 Harrison Ave., Leadville Gold Betty Fraction Lode Printer Boy Hill A. M. Gross 105 Angeles, California Development Climax (m) Climax Molybdenum Co Molybdenum, Climax (glory Hole) Climax Molybdenum, Climax (m) Molybdenum,				etc.	erc.
Name of Mine Location Operator P. O. Address Anthoch Claim Johnny Hill Froelich C Kaiser 106 Harrison Ave, Leadville. Betty Fraction Lode Printer Boy Hill. A. Gross. Solution Collmax (m). Climax (m). Climax Molybdenum Co. Climax Climax Glory Hole) Climax Glory Hole) Climax C Ryan & Son Box 7828, Lakewood	Product	Gold	Development	Molybdenum,	Molybaenum,
Name of Mine Location Operator Anthoch ClaimJohnny HillFroelich C. Ka Betty Fraction LodePrinter Boy HillA. M. Gross Climax (m)	P. O. Address	iser	Los Angeles, California	enum CoClimax	1Box 7828, Lakewood
Name of Mine Antioch ClaimJohnny Hill Betty Fraction LodePrinter Boy Climax (m)Climax Climax (Glory Hole)Climax	Operator	Froelich C. Ka	min M. Gross	Climax Molybd	C. Ryan & Sol
Name of Mine Antioch Claim Betty Fraction Lo Climax (m)	Location		detimer boy	Climax	le)Climax
	Name of Mine	Antioch Claim	Betty Fraction Lo	Climax (m)	Climax (Glory Hol

Dolly B
Eclipse (Ibex Area)LeadvilleAmerican Smelting & RefLeadville
Fannie RawlinsJohnny HillW. D. Nelson
Garibaldi TunnelCalifornia GulchRobert L. Jones
Hayden ShaftFryer HillCaldwell Mining Co2475 Gray Street, DenverGold, Silver,
Helena
Irene No. 2Johnny HillAmerican Smelting & Ref. CoLeadvilleGold, Silver,
Little AliceLong & Derry Hill Louis Kostelic203 W. 3rd St., LeadvilleGold, Silver,
Millie G. No. 1GraniteSidney & Gilbert GreenGraniteGold, Silver,
Nisi Pruis Claim
Resurrection No. 2 (m)Big Evans Gulch. Resurrection Mining CoP. O. Box 936, Leadville Gold, Silver, Revenue Cuffer Tunnel Liftle Evans
GulchEdward Mayerle
Robert Emmett Stumptown American Smelting & Ref. Co Leadville Exad, Zinc Storke Tunnel Climax Gibbons & Reed Boyle Bros Climax Development Yak Tunnel California Gulch. Resurrection Mining Co Box 936, Leadville Gold, Silver, Silver, Silver

OPERATING MINES IN LA PLATA COUNTY

Product	Gold, Silver	
O. Address	452, Durango	
- d	IncBox 452, D	
Operator	Zodomok Mines,	
Location	La Plata Mtn	
Name of Mine	Bessie G	

OPERATING MINES IN LARIMER COUNTY

Product	nsUranium, Tourist
P. O. Address	
Operator	Cherokee Mine Co
Location	Cherokee Park
Name of Mine	Black Hawk

OPERATING MINES IN MESA COUNTY, 1953

	Vanadium Vanadium	Vanadium	Vanadium Vanadium	Vanadium	Vanadium Vanadium	Vanadium	Vanadium Vanadium	Vanadium Vanadium Vanadium	Vanadium Vanadium Vanadium Vanadium Vanadium	Vanadium Vanadium Vanadium Vanadium Vanadium
Product	$\left\{ \begin{array}{l} U \mathrm{ranium,} \\ \end{array} \right.$. Uranium,	.Uranium,	.Uranium,	.Uranium, .Uranium.	.Uranium,	. Uranium, . Uranium,	. Uranium, . Uranium, . Uranium,	Uranium, Uranium, Uranium, Uranium,	. Uranium, . Uranium, . Uranium, . Uranium, . Uranium, } Uranium,
P. O. Address		438 Sherman Drive, Grand Junction	Montrose	438 Sherman Drive, Grand Junction. 438 Sherman Drive,	Grand JunctionRt. 2940 Patterson Rd., Grand Junction.	Gateway % Leo Mullins, Dt 1 Emitted	% Dick Roper, Rt. 3, Grand Junction Montrose	Gateway Gen'l Del, Grand Junction Uravan % Leo Mullins,		rt. 3, Grand Junction. Corchard Mesa. Clifton. Box 1211, Gateway. Rt. 1, Grand Junction. Gateway. Rifle
	Arrowhead No. 1Calamity Mesa Warren E. Wright and A. C. Hinderle	Arrowhead 34—Incline 5 Calamity MesaAl Rinderle	Arrowhead 34—Incline 7Calamity MesaTex Hughes & Associates Arrowhead Incline No. 12Arrowhead Camp.Fred Zanett Lease	Arrowhead Incline No. 13Outlaw MesaAl C. Rinderle	Arrowhead Camp	Black MammyTenderfoot MesaTenderfoot Mining Co BlairOutlaw MesaE. N. Jones	Blue BirdOutlaw MesaSuthland & Roper		G-1 Incline Coutlaw Mesa. Climax Uranium Co. G-2 Incline Outlaw Mesa. Climax Uranium Co. Hansen Incline Coltaw Mesa. Eugene Bonner Hidden Treasure Calamity Mesa. Carl Tucker. July Lease. N.W. Outlaw Mesa. Eugene T. Bonner Jumbo No. 2. Suthland & Roper.	June Claim. La Sal No. 1. La Sal No. 1. John Brown Hill. Lee Hetzel & Associates. La Salle (La Sal) No. 2. John Brown Hill. Geranium Mining Co. Little Johnnie. Lumsden No. 2. (Gateway) (Gateway) Amouuth (Gateway) Loren Jewell.

M. C. No. 10. Raemarie No. 3. Neglected Incline 2 (Calamity 14) Neglected Incline 2 Neglected Incline 2 Neglected Incline 2 Negles Rock Rad. Pay Rock No. 14 Queen of the Hills Ronnie No. 1. Ronnie No. 2. Samall Spot Drift Sandl Spot Drift Sinowshoe Sunflower Yellowjacket No. 2 (Shaft 8). Yellowjacket No. 9 Incline Name of Mine Bapperius (m) Egquity Monon Name of Mine Blue Mtn. No. 4. Name of Mine Blue Mtn. No. 4. Name of Mine Blue Mtn. No. 4. Name of Mine Blue Mtn. No. 4.
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OPERATING MINES IN MONTROSE COUNTY, 1953—Continued

ent	Vanadium Vanadium Vanadium Vanadium Vanadium	Vanadium Vanadium Vanadium Vanadium Vanadium	Vanadium Vanadium Vanadium Vanadium Vanadium	Vanadium Vanadium Vanadium	Vanadium Vanadium Vanadium Vanadium	Vanadium Vanadium Vanadium Vanadium Vanadium Vanadium	vanadium
Product Development	Uranium, Uranium, Uranium, Uranium, Uranium,	Uranium, Uranium, Uranium, Uranium, Uranium,	Uranium, Uranium, Uranium, Uranium, Uranium,	Uranium, Uranium, Uranium,	Uranium, Uranium, Uranium, Uranium,	Uranium, Uranium, Uranium, Uranium, Uranium,	Oranium,
		Bldg.,			h:		
lress lo. Springs		Nat'l. Bank Naturita	Naturita Naturita Uravan	ravan	7 Darling Bldg Salt Lake City, Utah ucla 1. Grand Junction tturita ox. 473, Uravan	sank Bidg. inction	Uravan
P. O. Address sox 86, Colo. S	Nucla Naturita Paradox Uravan Nucla	Naturita Naturita 134 U. S. Nat'l. B Denver Box 214, Naturita Urayan Nucla	Box 235, Naturita Box 274, Naturita Box 94, Uravan Norwood	Uravan Durango Box 424. Uravan	207 Darling Bldg Salt Lake City, Uta Nucla Rt. I, Grand Junction Naturita Box 473, Uravan	. 5 5	Box 484, U
P. O. Address Uranium Div. Box 86, Colo. Springs		TY4	nes		, Inc		
čorp., Uran	Templeto	Jranium Co	& Geo. Bar Williams & Co	p. of America	ran. Mines	SSOC	1CK & ASSOC
Operator Golden Cycle Corp.,	Canyon Bull Canyon Bark Paulsen Canyon Bast Long Park Booth Eckman Carpenter Ridge Clyde Wright. N.C. Long Park Joseph C. Pitt. Uravan Van Arsdale & Templeton Marken Mark Mark Milton Castor.	N.E. I'dm Long N.E. R. Frazier Monogram Mesa. Rexroad & Athey S.W. Paradox Four Corners Uranium S.E. Bull Canyon. W. R. Hall S.E. Bull Canyon. A. F. Skalla S. F. Bull Canyon. Glenn Neesham	L. B., Eugene & Geo. B Sturtevant & Williams M. A. Barkley & Co J. R. Simplot & Co R. C. Bishop.	John Morrill Vanadium Corp.	Mesa Lowell Staats. Mesa Henry O. Lehr Mesa I. R. Ford		M. Jabernick &
O _I	- A 9	tum Long Trk	E. B., Sturte M. A. nyon.J. R.	John	MesaLow MesaHen MesaI. R		39 · F · · · · · · · · · · · · · · · · ·
Location	Canyon buli Canyon East Long Park Carpenter Ridge N.C. Long Park. Uravan	N.E. Kim Long Park Monogram Mess S.W. Paradox S.E. Bull Canyo S.E. Bull Canyo	Central Long Park Uravan N.E. Bull Canyon J. N.W. Long Park R.	Central Long Park Long Park N.W. Rim Long Park.	Central Bull Canyon Monogram M Monogram M Monogram M Club Mesa	Uravan Uravan Cravan Canyon So. Long Park Central Long Park N. C. Long Parl	Club Mesa
I	CCar CCar CCar CCar CCar CCar CCar CCar	MON S. S.W. S.E.E.	Certification of the control of the	Par Par Long	CCLU NO		CIr
Mine Shaft	sk No. 1 Moonbeam	Opera Box Spring No. 7. Spring No. 9. Spring No. 9.	onal Shaf	sin	r Group	Salle	
Name of Mine Atkinson Shaft.	Baby Fawn. Bitter Creek Buckhorn No. 1 Chr.C. & Moonbea Dolores	East Opera Box. Evening Star Fawn Spring No. Fawn Spring No. Fawn String No. Fawn String No.	First National Sh Fox Block No. 6 Greagor Great Western	Henry Clay No. 2. Hidden Basin	Horse Hair Group Hummer J. J. Joe Dandy	La Salle Little Basin Little Dick Log Cabin Long Park No. 1. Long Park No. 6. Maggie C.	Mill No. 2

Vanadium Vanadium Vanadium Vanadium	Vanadium int int Vanadium Vanadium Vanadium Vanadium	Vanadium Vanadium Vanadium Vanadium	ent Vanadium Vanadium Vanadium	Vanadium	Vanadium Vanadium Vanadium Vanadium Vanadium Vanadium	vanadium Vanadium Vanadium Vanadium Vanadium
	ne ne		opment um, Va um, Va			
	Peanut S.E. Bull Canyon J. R. Simplot Co	Nucla Box 236, Naturita Durango Uravan The So2, Uravan The So2, Uravan	120 Broadway, N. Y. N.W. Bull Canyon Jeff Brumley & Assoc. N.W. Bull Canyon Glenn Gregor. Naturita Central Bull Total Filder Uranium.	Central Bull Canyon	Monogram Mesa Henry O. Lehr. N.C. Long Park. J. L. Bran. N.C. Long Park. Tim Fisher. S.E. Long Park. D. C. Bunker & Assoc. N.W. Long Park. D. C. Bunker & Assoc. N.W. Long Park. C. D. C. Bunker & C. Crandall. S.E. Long Park. O. E. Smart & C. Crandall. E.C. Long Park. O. L. Cerney.	Wedge Paradox Paradox Uranium, version & Assoc. Paradox Paradox Uranium, version & Hickman & Assoc. Paradox Monogram Mesa. Clark, Harrison & Higgins Naturita Toranium, version & Monogram Mesa. Clark, Belz & Snodgrass. Naturita Norwood Uranium, version & Monogram Mesa. Roy Andress & Assoc. Norwood Uranium, version & Morcester Shaft Uravan Harold Worcester & Assoc. 625 N. 3rd, Montrose Development Yellow Bird. La Salle Creek. Vanadium Corp. of America Durango Uranium, version Blanding, Urah. Uranium, version W. P. Jones & C. L. Maxwell Blanding, Urah.
Miner: North Ophir Oversi Patty	Peanut Production Red Bird Republican Bira Bodr	Rim F Rim F Rim F Rock St. Ps	Starlig Starlig Starlig Sunris	Sunrise No. 4 Teapot Dome	T.N.T. Trami Triang Tripod Vanad	Wedge West Whitn Wild Worce Yellow Zebra

ADDENDUM-MONTROSE COUNTY

Product	Uranium, Vanadium	Uranium, Vanadium Uranium, Vanadium
Operator P. O. Address	Herman Conrow Rt. 3, Grand Junction Harold A. Dull Box 446, Moab, Utah Yurst Blanding. Utah	aptain JackGateway Jack RichardGateway Gateway Tranium, Vanadium
Location		Gateway
Name of Mine	Elva M. No. 2	Captain Jack

OPERATING MINES IN OURAY COUNTY

		-		
	Zinc	1	Copper Zinc	Copper
Product	Silver, Lead, Zinc Lead, Zinc, Copper Exploration	Exploration	Gold, Silver, Copper Silver, Lead, Zinc	Lead, Zinc, CopperExploration
P. O. Address		Box 545, Ouray	N. Y., and Ouray, Colo	Ouray Box 545, Ouray Box 545, Ouray
P. (bits			
Operator	T. Colvin Mining CoKing Lease, Inc		Gail Moore & Dan Briggs.	Earl Alexander
Location	Sneffels S.E. of Ouray.	So. of Ouray	Ironton Park	ParkSneffels
Name of Mine	Altoona Group (m) Camp Bird (m) Dunmore	Edna No. 1	Magnet Patsy	Revenue

OPERATING MINES IN PARK COUNTY

		d, Zinc
Product	Silver, Gold,	Copper, Lead, ZincExplorationGold
P. O. Address	Alma	2812 E. 6th Ave., Denver
Operator	Buckskin GulchBuckskin Joe Mines, LtdAlmaSilver, Gold,	Tunnel).HorseshoeLeadville Lead CorpFairplay
Location	Buckskin Gulch.	E .
Name of Mine	Buckskin Joe	Hilltop (Dauntless Ling Group

OPERATING MINES IN RIO BLANCO COUNTY

		m	m	# # # #
		Uranium, Vanadium	Uranium, Vanadium	Uranium, VanadiumUranium, VanadiumUranium,
	Product	nium,	nium,	nium, nium,
	P	Ura	Ura	Ural
		:		
1	SO.	Ave.,	regon	
	P. O. Address	.V. 5th	and, O), Rifle i, Rifle
	P. 0.	Meeker	Portland, Oregon	Box 424, RifleRifleRifle
				Box 149, Rifle Box 424, Rifle Rifle Rifle
		nc	enry	h : :
		os	sh & H	glesmit
	ator	aux Br	asselbu	Zieseniss arl H. Klingl im La Donne.
	Operator	N.E. of MeekerDevereaux BrosN.E. of MeekerTungsten Uranium, Inc	Ray H	ck) E. of Meeker Carl H. Klinglesmit
		eker	er	eak
	Location	of Me	f Meek	f Meek
	Ľ	NN	E. o	E. o
	rvine		Midnight (North Block)E. of MeekerRay Hasselbush & Henry	Midnight (South Block)E. of MeekerCarl H. Klinglesmith Windy Point No. 1Uranium PeakJim La Donne
	Name of Mine Brown Claim, Marvine	No. 10 & Shylo	North	Midnight (South Blo Windy Point No. 1.
	Name of Mine own Claim, Ma	o. 10 & ell No	night (night (dy Poi
	Brov	Burr	Midr	Win

OPERATING MINES IN RIO GRANDE COUNTY

Name of Mine Location Operator Summitville Name of Mine Location OPERATING MINES IN SAGUAC Location Departor Bear Creek Mining Co. Carlifornia Mine (Twins). Flagstaff Mtn W. J. Tinney & Joe G. O'Brien. Cocomongo Cora Claim La Garita (m) Rawley Sky City. Sky City. Big Park Company Compan	OFERALING MINES IN RIO GRANDE COUNTI	Location SummitvilleR	OPERATING MINES IN SAGUACHE COUNTY	Location g CoGreenback Mtn	ada	a Garita (m)	Big ParkWannamaker Mng. & Milling Company	Sosthenes GulchJohnston Mining C Villa GroveVilla Grove Turqu	OPERATING MINES IN SAN JUAN COUNTY, 1953	
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Product	Silver, Lead, Zinc	Development	Uranium, Vanadium	Silver, Lead, Zinc	Gold, Silver, Copper,	Zinc, Lead Exploration	Silver, Lead, Zinc		Lead, Zinc	Silver, Lead, Zinc Tungsten	Gold, Silver, Lead
P. O. Address	Silverton	Box 448, Silverton	Durango	Silverton	Silverton	Silverton	Silverton	Silverton		Box 561, Silverton	Silverton
Name of Mine Location Operator P.	Black HawkGladstoneHenry P. EhrlingerSilv Garry OwenCunningham	GulchOld Hundred Gold Mng. Co	Graysill GroupHermosa CreekVanadium Corp. of AmericaDur.	Silverton United States Metals Co.	SilvertonGaltie Boy Mine, Inc	GladstoneGraham Mines Co	Lark	Rove Animas William Erioteon	Dod Mit Doc Doctaile Man Co	Enris Cole & Assoc Williams & Walby	Cunningham GulchT. S. Hadden & Assoc

OPERATING MINES IN SAN JUAN COUNTY, 1953—Continued

Product	Gold, Silver, Lead Gold, Silver, Copper, Lead	Exploration	Product	Uranium, Vanadium Exploration Uranium, Vanadium Uranium, Vanadium	Uranium, Vanadium Gold, Silver, Lead, Zinc	Uranium, Vanadium Silver, Lead, Zinc Uranium, Vanadium Gold, Silver,	7	Uranium, Vanadium n. Uranium, Vanadium Uranium, Vanadium Uranium, Vanadium Uranium, Vanadium Uranium, Vanadium	Uranium, Vanadium Uranium, Vanadium Uranium, Vanadium Uranium, Vanadium
P. O. Address	Frank Hitti, Agent, Silverton	801 Midland Savings Bldg., Denver	GUEL COUNTY	Naturita Ouray Egnar Red'vale Dove Creek 629 N. Ave. Grand Junction	Grand Junction	Uravan Telluride Dove Creek	.Egnar	Nucla de Ave, Grand Junction. 618 Rod Ave, Grand Junction. Dove Creek. Dove Creek. Dove Creek. Moab, Utah. Egnar	Dove Creek Uravan Box 223, Naturita
Operator	Pride of the West, Inc Shenandoah Dives Mng. Co Paul Hoffman & Assoc	N.E. of Silverton. Treasure Mtn. Gold Mng. Co	OPERATING MINES IN SAN MIGUEL COUNTY	Oliver Brothers The Bastridge Co. J. L. McCullah. C. L. Lewis, Contractor for: {Rarker Mining & Dev. Co. Planter Mining & Dev. Co.		Joseph Barnes. Delbert McClusky & Assoc. M. H. Canffield & Assoc. Silver Bell Mines Co.	E. J. Robinett	Valley Silck Rock Bridge Blue Greek Mining Co. Silck Rock Hill W. R. McCormick. Silck Rock Hill Uranium Metals, Inc. 2 mi. S. Slick Rock Geo. Hazen. Egnar Egnar Silck Rock Hill Jack C. Turner. Silck Rock Hill Jack C. Turner.	Duncan & Sanchez
	n)Silverton		OPERATI	Location Little Gypsum Valley Ouray S.W. of Ouray Slick Rock Hill Gypsum Valley O'Neill Group	Telluride	O'Neill Group Ophir Loop Slick Rock Hill	Couger GroupSlick Rock.	(d	No. 1. Slick Rock Slick Rock Bull Canyon
Name of Mine	Shenandoah Dives (r Thelma	Treasure Mountain.	5	Andrus of Aline Andrus Andrus Andrus Bald Bagle Bean Patch	Bob Tail	Brighton Butterfly (m) Canfield, A. H	Couger Lower Shaft. Couger Group.	Ellison Elouisa Incline Falcon (Legion Grouf Full Moon Golden Rod No. 4.	Helen Claim Incline Hot Shot Jack Knife No. 3

Little Gypsum Elbert A. Short Placerville Tom Skidmore Sover Short Box 311, Dove Creek Uranium, Vanadium Incline 3 & 4 Slick Rock Hill Tom Skidmore	ncline up	t	nup Dolores Riv. at M. R. Watters. Dolores Birk Rock. M. R. Watters. Egnar G. W. Nelson & J. L. Larson. Egnar G. W. Nelson & J. L. Larson. Egnar George Hazen. Granium, Vanadium No. 1. Egnar George Hazen. Granium, Vanadium No. 1. Singh Bock Hill Dulanev Mining Co. 1st Natl. Bank Bldg.	Slick Rock Hill . W. R. McCormick. 8 ml. S.E. Slick	RockConsolidated Uranium Mines, Inc. 307 Darling Eldg., Salt Lake City, UtahUranium, Vanadium Salt Lake City, Utah	Little Gypsum YalleyMelvin BrewerDove CreekUranium, above ml. above	Slick RockSkidmore Mining CoBox 311, Dove CreekUranium, Vanadium m)TellurideTelluride Mines, IncTelluride	O'Neill Group. Fitz Wright. Box 249, Naturita. Uranium Slick Rock Hill Allen Hopkins Egnar Uranium Slick Rock. Gayno Mining Co. 730 N. 3rd St., Montrose. Uranium
Japan Flora Jupiter King No. 2 Incline 3 &	King No. 2, 3 & 4 Inclin (Frenchie) Leopard Creek Group. Lone Ridge	Lost Claim Main Street Meldrum Tunnel	Middle Group Nelson & Larson Norma Jean No. 1	Otero Incline	Radium 7Silver Bell (m)	Sky LarkTail Hold	Telluride (m)	Tom Boyveta Wadveta Wad No. 2

OPERATING MINES IN SUMMIT COUNTY

Product	ExplorationManganeseLead, ZincDevelopment
P. O. Address	re Wm. Nelson Bersonnet, Jr. Breckenridge Exploration Ralph Terrill & Assoc. Montezuma Manganese Sally Barber Mining Co. Box 158, Breckenridge Development Kyle & Thomas.
Operator	Wm. Nelson Be
Location	odeBreckenridgeMontezuma omas).Heeney
Name of Mine	Alice Blue Gown Breckenridge Wm. Nelson Bersonnet, Jr Geciel & Betty Jean Lode Montezuma Rahph Terrill & Assoc Chatauqua (m) Montezuma Sally Barber Mining Co Big Four (Kyle & Thomas) . Heeney Kyle & Thomas

OPERATING MINES IN SUMMIT COUNTY—Continued

Zinc		
Product Development Development Development Development Lead, Zinc Lead, Zinc Lead, Zinc Development Silver-Moly Development Silver, Lead Silver, Lead Gold, Silver, Lead	ProductGoldGoldExplorationGoldDevelopmentGoldDevelopmentGoldDevelopmentDevelopmentExploration	Development Gold Gold Gold-Tourist Development Gold Gold Gold
Denver Denver ridge	P. O. Address P. O. Box 127, Cripple Creek, Cripple Creek, Cripple Creek, Box 127, Cripple Creek, Box 127, Cripple Creek, San Francisco, Calif., 333, Independence Bldg., Colorado Springs. ing Co. Box 127, Cripple Creek, Cripple Cr	Mines Co. 1, ritorissant, Colorado Springs. Mines Co. Box 205, Cripple Creek. Cripple Creek. Cripple Creek. Box 127, Cripple Creek. 1536 Welton St., Denver. Victor Box 127, Cripple Creek.
Location Operator Boundary Brotherson South Swan A. R. Wright & Son. Jefferson Jerekenridge Jim B. Pearce 69 So. Pearl's R. Montezuma Breckenridge Breckenridge Art & Mike Vinson. Breckenridge Montezuma A. R. Rhine Brothers Montezuma A. R. Rhine Montezuma A. R. Rhine Montezuma Montezuma Horn Brothers Montezuma Kokomo Montezuma Blyin Oelrich Montezuma Montezuma John M. L. Davenport Breckenridge Montezuma Breckenridge W. L. Davenport Montezuma Breckenridge Montezuma Breckenridge W. L. Davenport Montezuma Breckenridge Montezuma Breckenridge Montezuma Breckenridge Montezuma Breckenridge Montezuma Breckenridge Montezuma Breckenridge Montezuma Montezuma Breckenridge Montezuma Breckenridge Montezuma Montezuma Breckenridge Montezuma Montezuma Montezuma Breckenridge Montezuma	Location Battle Mtn. Battle Mtn. Gold Coin Leasing Co. Annaconda Guich Leclair Con. Mines Co. Globe Hill. Raven Hill. Cresson Cons. Gold Mining Co. Raven Hill. Cresson Cons. Gold Mining Co. Cripple Creek Mines, Inc. Cripple Creek Mines, Inc. Cripple Creek Mines, Inc. Cripple Creek Mines, Inc. Cripple Creek Mining Co. Cripple Creek Mines, Inc. Bull Hill. Sabella Mines, Inc. Carl E. Zaring.	Cripple Creek Metritt N. Kuddock. Beacon Hill John Robush & Co. Tenderfoot Hill Markley M. & Expl. Co. Battle Mtn. Isabella Mines, Inc. Straub Mtn. United Gold Mines Straub Mtn. F & E Mining Co. Battle Mtn. United Gold Mines Straub Mtn. F & E Mining Co. Battle Mtn. United Gold Mines Straub Mtn. F & Honited Gold Mines in connection with Mine.
Name of Mine Little Hope New Recruit Owl Tunnel Paymaster Pittsburgh Preston Tunnel Pride of the Mountain Sulver King (m) Silver King (m)	(m) Lease onda Tunnel nate Queen nn Lease on Tunnel nn Lease cood rter Gold King King King Savereign andence la La Dump	Little May Tunnel. Beacon Hill John Mary McKinney Dump. Gold Hill. Le Cl. Molly Kathleen. Tenderfoot Hill Mark Portland Surface Shaft. Battle Mtn. Isabe Portland No. 1 Shaft. Battle Mtn. Witchor Front Tilden. Strong Strong Strong Strong Strong Strong Strong Strong Strong Mill operating in connection with Mine (m) Denotes Mill operating in connection with Mine

OPERATING QUARRIES IN BOULDER COUNTY, 1953

	Product Sandstone Peat Sandstone Peat er Sandstone		Product Calcium Granite Cimestone Granite Granite Granite		Product Volcanic Cinder		Product	Monumental Granite Perlite Perlite		ProductLimestone and
Committee Coorts, 1999	P. O. Address Lyons Morrison R. W. Lind, Bids. 208, Boulder P. O. Box C. Lyons Box 336, Boulder C.G.C. Bidg. 220, Boulder 1645 Main St., Loveland Box 325, Lyons Box 124, Lyons Lyons	CHAFFEE COUNTY	P. O. Address Box 910, Salida 348 West 5th St., Salida Co	STHLLA COUNTY, 1953	P. O. AddressMesita	CUSTER COUNTY	P. O. Address	Colorado Springs Box 291, Florence Box 291, Florence	DOUGLAS COUNTY	P. O. AddressBox 94, Littleton
of the first of th	Location Operator P. O. Address	OPERATING QUARRIES IN CHAFFEE COUNTY	Operator Calcium Company Colo. Granite Co Colorado Fuel & Iron Calcium Company M. & S. Inc stJames Warner	OPERATING QUARRIES IN COSTILLA COUNTY, 1953	Operator P. O. AcColo. Aggregate Co., IncMesita	OPERATING QUARRIES IN CUSTER COUNTY	Operator reek	Great Lakes Carbon Corp	OPERATING QUARRIES IN DOUGLAS COUNTY	OperatorHelmer Bros
	Locat Locat Locat Locat Lyons Co. Lyons N. Left N. Left Lyons Lyons Lyons Lyons Lyons	OPI		OPER.	LocationMesita	OP	Location Location Bet. Texas Creek & Hillside	Rosita	OPI	LocationLittleton
	Name of Quarry Loca Clemen's Loca Comstock Peat Lode Nederly Hall Lyons Jacobson-Evans Stone Co. Lyons Fickett Nanh Peat Co. Nard Red Stone Lyons St. Vrain Lyons St. White Stone Lyons White Stone Lyons		Name of Quarry Calcium Crystal Stone Placer Monarch Lime Mt. Princeton Granite Soda Spar (Homestake) Warner's		Name of Quarry Colo. Aggregate Co		Name of Quarry Delano	Greene Wilfley		Name of Quarry Helmer Limestone

OPERATING QUARRIES IN EAGLE COUNTY

Product Volcanic Cinder	
larry Location Operator P. O. Address Product Cinder roducts	
OperatorColo. Lava	
LocationDotsero	
Name of Quarry Colo. Lava Products.	

OPERATING QUARRIES IN EL PASO COUNTY

Product	Crushed Rock	Crushed Rock and Fire Clay	
P. O. Address	orpCrushed Bldg.,		
Operator	Golden Cycle C	Nixon Bros	
Location	Pikeview	Colo. Springs	
Name of Quarry	Lennox BreedPikeviewGolden Cycle Corp	Little Fountain CreekColo. SpringsNixon Bros	

OPERATING QUARRIES IN FREMONT COUNTY

Product Limestone Monumental Granite Silica Rock Limestone Limestone Gypsum Gyp
P. O. Address 703 U. S. Nat'l. Bank Bldg., Denver 225 W. Cimarron, Colorado Springs Colorado Springs Colorado Springs Box 8, Howard Pueblo Penrose Pen
P. O. Address Tog U. S. Nat'l. Bank Bid Denver 225 W Cimarron, Colorado Springs Canon City. Box 8, Howard Penrose Penrose Box 387, Canon City 227 Main St., Canon City Box 387, Canon City 227 Main St., Canon City Westcliffe Box 521, Canon City Westcliffe Canon City Westcliffe Wox 521, Canon City Westcliffe Box 521, Canon City Westcliffe Box 521, Canon City Westcliffe Box 521, Canon City Canon City Westcliffe Box 521, Canon City Box 520, Rt. 1, Canon City Box 521, Canon City
Co
Location Location Taylor Gulch. Frank H. Norberg Co. Whitehorn Dist. V. D. Coleman & Co. Canon City. Ray Sturbaum & Son. Howard Coolable Salt Canyon Canon City. Nat Senatore Canon City. Nat Senatore Canon City. J. E. & David Cowan Texas Creek. Kenneth R. Cox. English Siding Colonna & Co. of Colo Carden Park. Colonna & Co. of Colo Carden Park. Colonna & Co. English Siding Colonna & Co. English Siding Colonna & Co. Sommidt-Wedel Corper Gulch Sand Gulch Salt Canon Dale Hoover.
Location Taylor Gulch Whitehorn Dist. Canon City Ganon City Coaldale Canon City Canon City Canon City Texas Creek Texas Cre
Name of Quarry American Crystal Aspen Ridge. Burnito Calcite Canon Dolomite Coaldale Coolorado Springs. Colorado Springs. Colorado Springs. English (Wellsville) Freek Marble Ganister June Rose. Mica Lode Mica Lode Oak Creek. Phanton Lode Penrose Portland

ityFeldspar, Mica, Beryl Marble aGypsum	Product Bldg., Limestone	Product Peat	Product Feldspar Feldspar, Mica, Beryl on Beryl, Feldspar, Mica	Product Peat Moss Silica Rock Silica Rock	Product Sandstone Bidg Sandstone lins. Chrestone lins. Timestone Sandstone Sandstone NUMBER Sandstone Sandstone Sandstone Sandstone Sandstone Sandstone Synth Chrestone Synth Chrestone Synth Chrestone Synth Chrestone Synth Chrestone Synth Chrestone
Texas Creek ViewTexas Creek StationIo90 Elm St., Canon CityTrail GulchGarden ParkColonna & CoCanon CityTrail Gulch	OPERATING QUARRIES IN GARFIELD COUNTY Name of Quarry Location Operator Glenwood LimeGlenwood Springs.Frank H. Norberg & Co703 U. S. Nat'l. Bank Bldg., Denver	OPERATING QUARRIES IN GILPIN COUNTY Name of Quarry Location Operator Rudolph RanchThe GapGus RudolphBlack Hawk	Name of Quarry Name of Quarry Location Deperator Big Bertha. Buffalo Creek. R. V. McGuire. Bigger's Mica Mine Quar. Tiny Town. Waltz & Hewitt. Ken-Caryl Lease. Worrison Worrison Worrison Worrison Worrison	Name of Quarry Location Operator Decation Deperator P. O. Address Hayden Ranch Mt. Elbert Peat Moss Co. Leadville Pine View Placer Leadville Dale Hoover Dale Hoover Parkdale Silica Placer.	OPERATING QUARRIES IN LARIMER COUNTY, 1953 Production Deperator

OPERATING QUARRIES IN LAS ANIMAS COUNTY

Product . Alabaster		Product .Peat	. Peat	Feldspar	. Feldspar Dect	. Building Stone	Product . Clay		Product .Fire Clay .Clay and Fire Clay .Plastic Clay .Plastic Clay		Product .Clay	.Clay .Clay
Location Operator P. O. Address Product	OPERATING QUARRIES IN TELLER COUNTY	ion Operator P. O. AddressSoil-N-Rich Co., M. B. Martin2605 W. Colorado Avenue, Colorado SpringsPe	Western States Feat & Fertilizer Co		Glenn Spielman		OPERATING CLAY MINES AND PITS IN BOULDER COUNTY, 1953 Location Operator P. O. Address MarshallLongmont Brick & Tile CoBox 727, LongmontCl	OPERATING CLAY MINES AND PITS IN DOUGLAS COUNTY	Name of Mine Location Operator P. O. Address Pr Helmer Clay. Littleton Helmer Bros. Bos. Bos. Fire Hillside Waterton W. H. Hedley. 3726 Newton St., Denver. Clay Hogback Waterton Robinson Brick Tile Co. Santa Fe, Denver. Plass Johnson Clay. Castle Rock. Stroud Wisenhunt. Castle Rock. Plass Stevens Ranch Clay Pit. Castle Rock. Stroud Wisenhunt. Castle Rock. Plass	OPERATING CLAY MINES AND PITS IN EL PASO COUNTY	enverCl	Colorado SpringsNixon Bros
Name of Quarry Red Rock		Name of Quarry Divide Peat Bog.	Gillette Feat Bog.	Lost Dutchman	Peat Bog	Pikes Peak	Name of Mine Rocky Flats Clay Pit		Name of Mine Helmer Clay Hillside Hogback Johnson Clay Stevens Ranch Cla		Name of Mine Apache No. 5 Hecla Clay Pit	Little Fountain Creek

OPERATING CLAY MINES AND PITS IN FREMONT COUNTY

duet	Clay
Pro	, Canon City. Fire Cl
Address	2121 N. 9th Street, C.
P. O	2121 N.
	dale3
Operator	. E. Goo
Location	.Canon City
Name of Mine	FlintCa

OPERATING CLAY MINES AND PITS IN JEFFERSON COUNTY

Product	HOHH :::::	Clay Clay Clay Clay Clay Clay Clay Clay	rFire Clay
P. O. Address	500 So. Santa Fe, Denver 1208 So. Mariposa, Denver 135 Tejon Street, Denver Box 292, Golden		4501 Fox Street, Denver.
Operator	5 mi. W. Denver Robinson Brick & Tile Co Morrison Montgomery Bros Golden Benver Terra Cotta Co Golden Golden Clay Mining Co	Denver Sewer Pipe & Clay Co Denver Sewer Pipe & Clay Co Latewood Brick Co Geo. W. Lindsey Co Geo. W. Parfet Britk. Co Geo. W. Parfet Isstate, Inc Geo. W. Parfet Isstate, Inc	Denver Sewer Pipe & Clay Co4501 Fox Street, Denver
Location	5 mi. W. Denver Morrison Golden	1. Golden 2. Golden Golden C. Golden C. Golden C. Golden	Golden
Name of Mine	Chieftain 5 mi. W. Der Cowan's Clay Pit Morrison Denver Terra Cotta Golden Golden Clay Mining CoGolden	Johnson Clay Mine No. 1 Golden Johnson Clay Mine No. 2. Golden Lakewood Brick Co Golden Lindsey Clay Mine Golden North Golden Clay Golden Geo. W. Parfet Est. Inc Golden H. M. Rubey Clay Co Golden South Golden Clay Mine.	Strainland

OPERATING CLAY MINES AND PITS IN LAS ANIMAS COUNTY

Product	Clay
P. O. Address	Trinidad
Operator	Trinidad Brick & Tile Co
Location	.Trinidad
Name of Mine	New Mary

OPERATING CLAY MINES AND PITS IN PUTEBLO COUNTY

	Product lityFire Clay (Clay	, , , , , , , , , , , , ,
THE PROPERTY OF THE PROPERTY O	P. O. Address 24th & Albany, Pueblo. 40342 Main St. Canon C Stone City. Box 1657, Pueblo	
THE CHART THEFT OF THE	our Standard Fire Brick Co Coleman & Freeman Arthur L. Wands Pueblo Clay Products Co	
	Name of Mine Location Chamblin Capers Spur Barly Blrid. Stone City. Nellie Helen Stone City. Pueblo Clay Products No. 1. Stone City. Pueblo Clay Products No. 2. Stone City. Pueblo Clay Products No. 3. Stone City. Pueblo Clay Products No. 3. Stone City. Pueblo Clay Products No. 4. Stone City. Pueblo Clay Products No. 4. Stone City. Rock Creek. Rock Creek.	
	Nam Chamb Early Nellie Pueblo Pueblo Pueblo Pueblo Rock (

OPERATING MILLS, PLANTS AND SMELTERS BOULDER COUNTY, 1953

Product	Tungsten
P. O. Address	nger Nederland Nederland 4. Nederland 4. Nederland 4. Nederland 5. Nederland 6. Nederland 7. Nederland 7. Neder 150, Boulder 7. Neder 228, Boulder 7. Jamestown 150, Boulder 1
Operator	
Location	5 mi. W. Nederland 3 mi. NE Nederland Lakewood Nederland Sugarloaf Nederland Nederland Sugarloaf Nederland Nederland Nederland Valmont Jamestown Nederland
Name of Mill or Plant	Clyde & Gale Cross Washer Plant Lakewood Mill. Lindsey Washer Marion Mill. Prospect Screening Plant. Pastore Washer. Walnout. Wano Mill. Wolftongue Mill.

OPERATING MILLS, PLANTS AND SMELTERS CHAFFEE COUNTY

Product	Calcium Granite Ciranite Limestone Fluorspar Fluorspar
P. O. Address	Box 910, Salida Salida Garfield Box 169, Salida CoBox 671, Salida
Operator	Calcium Mill Salida Calcium Company Box 919, Salida Granite Finishing Plant Salida Colorado Granite Co. Salida Monarch Crushing Plant Monarch Colorado Fuel & Iron Corp. Garfield Reynolds Mill Salida Western Feldspar Mill Salida Western Feldspar Mill Salida Salida Western Feldspar Milling Co. Box 671, Salida
Location	Salida
Name of Mill or Plant	Calcium Mill

OPERATING MILLS, PLANTS AND SMELTERS CLEAR CREEK COUNTY, 1953

Product	Gold	Lead, Zinc Lead, Zinc Lead, Zinc
P. O. Address	Burns Vault Bldg, Denv% Chas Anderson,	Idaho Springs Georgetown Idaho Springs.
Operator	Idaho Springs LeRoy Giles & Co	GeorgetownLupton Mining Co Idaho SpringsSilver Spruce Gold Mg.
Location	Tdaho Springs Dumont	GeorgetownIdaho Springs
Name of Mill or Plant	Dixie Mill	

OPERATING MILLS, PLANTS AND SMELTERS COSTILLA COUNTY

Product	Volcanic Cinder
P. O. Address	icMesitaVolcanic (
Operator	lo Aggregate Co., Ir
Location	it 2 mi. W. MesitaColorad
Name of Mill or Plant	Mesita Hill Plant

OPERATING MILLS, PLANTS AND SMELTERS DENVER COUNTY

OPERATING MILLS, PLANTS AND SMELTERS JACKSON COUNTY

Name of Mill or Plant Location Operator P. O. Address Product NorthgateOzark-Mahoning Co	OPERATING MILLS, PLANTS AND SMELTERS JEFFERSON COUNTY Name of Mill or Plant Location Operator Lyon's PlantArvadaBeryl Ores CoArvadaBeryl	Name of Mill or Plant Location Operator P. O. Address Product Arkansas Valley Smelter Leadville American Smelting & Ref. Co. Leadville Gold, Silver, Lead Climax Mill. Climax Moly Fin, Tungste Resurrection Mill. Calif. Gulch Resurrection Mining Co. Leadville Leadville Roberts Mill. Hanna Mill Site. J. H. Roberts 128 E. 9th St., Leadville Leadville	OPERATING MILLS, PLANTS AND SMELTERS LA PLATA COUNTY, 1953 Name of Mill or Plant Location Operator V. C. A. Durango PlantDurangoVanadium Corp. of AmericaDurango	OPERATING MILLS, PLANTS AND SMELTERS LARIMER COUNTY Name of Mill or Plant Location Operator La Porte PlantLa Porte	OPERATING MILLS, PLANTS AND SMELTERS MESA COUNTY Name of Mill or Plant Location Operator A. E. C. Plant	OPERATING MILLS, PLANTS AND SMELTERS MINERAL COUNTY Name of Mill or Plant Location Operator Emperius Mill
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OPERATING MILLS, PLANTS AND SMELTERS MONTROSE COUNTY Product P. O. Address Product Product Product Product Operator U. S. Vanadium Company Uravan V. C. A. Naturita Plant Uravan OPERATING MILLS, PLANTS AND SMELTERS OURAY COUNTY Name of Mill or Plant Location Operator Camp Bird Mill. Ouray Camp Bird Mill Ouray Couray Co	OPERATING MILLS, PLANTS AND SMELTERS PUEBLO COUNTY P. O. Address Product Operator Mica Grinding	OPERATING MILLS, PLANTS AND SMELTERS SAGUACHE COUNTY, 1953 Product P. O. Address Product D. O. Address D. O. Address D. O. Address Again Mill. D. Crystal Hill. D. A. Garita Mill. Saguache Smelting Co. Dostruction Saguache Smelting Co. Dostruction	OPERATING MILLS, PLANTS AND SMELTERS SAN JUAN COUNTY Product Pride Mill or Plant Location Operator Shenondoah Dives & Silverton Silverton Shenandoah Dives & Silverton Williams & Walby Silverton Tuead, Zinc Tungsten Yanture Mill.	OPERATING MILLS, PLANTS AND SMELTERS SAN MIGUEL COUNTY Rame of Mill or Plant Location Operator Bachelor Corp. Mill. Placerville Monarch Mining Co. Telluride Cophir Silver Bell Mill. Telluride Mills. Telluride Mills. Telluride Mills. Telluride Miles, Inc.
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OPERATING MILLS, PLANTS AND SMELTERS SUMMIT COUNTY

of Mill or Flant Local	tion Opera	ator	P. O. Address	Product
n MillMontez	umaJohn N		MontezumaLead, Zinc	Lead, Zinc
la Montez	umaSally I		, Mike Vinson, Breckenr	ridge. Lead, Zinc,

OPERATING MILLS, PLANTS AND SMELTERS TELLER COUNTY

Product	Gold
P. O. Address	CorpBox 47, Victor
Operator	Golden Cycle
Location	VietorG
Name of Mill or Plant	Carlton Mill

OPERATING PLACERS IN ADAMS COUNTY, 1953

Product	erGold 12Gold Gold
P. O. Address	
n Operator	Brannan Sand & Gravel Cooley Gravel Co Kerkling & Slensker
Location	Denver Denver Denver Denver Denver
Name of Placer	Plants 8, 10 & R Cooley Gravel Co Kerkling & Slensker

OPERATING PLACERS IN CHAFFEE COUNTY

Product		Gold	Gold
P. O. Address	:		Leadville Gold Walden Gold
Operator	La Plata Mng. & Dev. C	Lost Canon A W Platt	Little Lost Canon.Frank Dunvan
Location	.Lost Canon	Lost Canon.	Little Lost Ca
Name of Placer	Gold Bottom & Columbine. Lost CanonLa Plata Mng. & Dev. Co	John Howard	Mamme Jewel

OPERATING PLACERS IN CLEAR CREEK COUNTY

et		
Produ	.Gold	Gold
P. O. Address	Cooper	DistGlen L. FlelkerBox 227-L, RR. 3, Denver 16
Operator	gs.Spanish Bar Mines Co	Glen L. Flelker
Location		Dist.
Name of Placer	Cooper White Horse	,

OPERATING PLACERS IN FREMONT COUNTY

Product	ebloGold
P. O. Address	813 Jackson Street, Pue
Operator	C. C. Galbraith
Location	.Wellsville
Name of Placer	Jay Hill

OPERATING PLACERS IN JEFFERSON COUNTY

ProductGold		ProjectCanalHighwayHighway		Project	Highway Reservoir		Project	Highway Highway	Project Highway	Project Water Tunnel
idgeRio Grande Gravel Co44th & Eldridge Street, GoldenGold	ROAD WORK, TUNNELS AND DAMS—1953 BOULDER COUNTY	P. O. Address F. O. Address Kansas City, Mo. F. O. Address F. O. Address F. O. F	EL PASO COUNTY	P. O. Address	Henry Shore CompanyLittleton Douglas JardineColorado Springs	FREMONT COUNTY	P. O. Address	Fremont Co. Comm'rCanon City	GARFIELD COUNTY Operator E. G. Rippey & Sons	TLX
Operation Sand & GravelRio Grande Gravel Co	OAD WORK, BO	Location OperatorBoulder LyonsBales & KiteBoulder CanonLowdermilk BrosLyonsPeter Kiewit Sons Co son CountiesBrown Construction Co	BI	Operator	ea .	FR	Operator		Oper. E. G. I.	Operator Mattery Co
Location Wheatridge	H	Location Boulder Lyons. Boulder Canon. Lyons Son Counties.		Location	Monument Seven Falls Area		Location	Canon City & Guffey Sedalia to Wood land Park	Location Rifle to Grand	E
Name of Placer Location Plant 11Wheatridge Rio Grande Gravel CoDenver		Name of Operation Boulder Supply Canal. Highway Highway		Name of Operation	So. Suburban Dam		Name of Operation	HighwayHighway	Name of Operation Rifle & Puleson Rifle Project	Name of Operation St. Louis Water Tunnel

ROAD WORK, TUNNELS AND DAMS—1953—Continued

	Project Tunnel	Project Highway Highway	Project lighway Iighway		ProjectDam & Pump Station erWater Diversion	r miller	Project lighway		Project	. Highway . Highway . Highway		ProjectHighway
Y	P. O. Address143 W. 8th St., Leadville	dress	NTY P. O. Address Project DenverHighway Project So. Colo. Blvd., DenverHighway	Λ	Operator Beer Coal & Mazzocco Construction CoFlorence Denver Board of Water Comm'rs. City & County Bidg., Denver. Water Diversion	VTV	Operator P. O. Address Project Project Project Peter Kiewit Sons Co1950 So. Colo. Blvd., DenverHighway	INTY	P. O. Address 1950 W. Dartmouth Ave.,	Lugiewood	TY	Operator P. O. Address Siegrist Construction Co 7000 York Street. Denver
LAKE COUNTY	Operator Davis & Webb	LA PLATA COUNTY Operator P. O. AddressSchmidt Construction CoGrand JunctionBrown Construction CoPueblo	MONTROSE COUNTY OperatorPeter Kiewit Sons Co	PARK COUNTY		SAN JUAN COUNTY	OperatorPeter Kiewit Sons Co	SAN MIGUEL COUNTY	Ope Lowd	Colo. Constructors, Inc	SUMMIT COUNTY	OperatorSiegrist Construction Co
	LocationLeadville	Location Hesperus	LocationNaturita Uravan		Location11 Mile Canyon.		Location Top Red Mtn. Pass So		Location Slick Rock Hill.	Telluride Telluride		Location
	Name of Operation Leadville Drainage Co	Name of Operation Highway Highway	Name of Operation Highway Highway		Name of Operation Blue River Project Blue River Tunnel		Name of Operation Highway		Name of Operation Highway	Highway		Name of Operation Highway



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