



## **Guide to the Empire Mine State Historic Park Collection**

Empire Mine State Historic Park

Grass Valley, California

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**Processed by:**

History Associates Incorporated

**Date Completed:**

2002

**Encoded by:**

History Associates Incorporated

## Table of Contents

|  |      |
|--|------|
| Descriptive Summary.....   | i    |
| Administrative Information .....   | ii   |
| Organizational History.....  | iii  |
| Chronology .....   | vi   |
| Collection Scope and Content Summary .....                                   | viii |
| Separated Material .....   | ix   |
| Indexing Terms .....   | x    |
| Collection Contents.....   | 1    |
| Series 1. Empire Mine, 1866-1984 .....                                       | 1    |
| Subseries 1.1. Accounting Records, 1871-1951 .....                           | 1    |
| Subseries 1.2. Administrative Records, 1895-1944.....                        | 3    |
| Subseries 1.3. Employee Records, 1908-1923 and undated .....                 | 4    |
| Subseries 1.4. Legal Records, 1901-1920 and undated .....                    | 4    |
| Subseries 1.5. Mining Records, 1866-1959 and undated.....                    | 5    |
| Subseries 1.6. Topical Files, 1898-1984 and undated .....                    | 7    |
| Series 2. Empire Star Mines Company, Ltd., 1905-1977 .....                   | 8    |
| Subseries 2.1. Accounting Records, 1905-1956 and undated.....                | 8    |
| Subseries 2.2. Administrative Records, 1911-1977 and undated .....           | 10   |
| Subseries 2.3. Employee Records, 1928-1963.....                              | 12   |
| Subseries 2.4. Legal Records, 1936-1975 and undated .....                    | 13   |
| Subseries 2.5. Mining Records, 1929-1954.....                                | 14   |
| Series 3. Other Mines and Mining Company Records, 1873-1984 and undated..... | 15   |
| Subseries 3.1. Banner and Harmony Mines, undated .....                       | 16   |
| Subseries 3.2. Browns Valley Mine, 1938-1963 and undated.....                | 16   |
| Subseries 3.3. Bullion Mine, 1935.....                                       | 16   |
| Subseries 3.4. Champion Mine, 1891-1920 and undated .....                    | 17   |
| Subseries 3.5. Forest Mines, 1912-1967 and undated .....                     | 17   |
| Subseries 3.6. Franco-Nevada Mining Corp., Inc., 1984.....                   | 18   |
| Subseries 3.7. Gaston Ridge Mine, 1893-1921 and undated .....                | 18   |
| Subseries 3.8. Golden Center Mine, 1903-1952 and undated.....                | 19   |
| Subseries 3.9. Golden Dream Mine, undated .....                              | 19   |
| Subseries 3.10. Gray Rock Mining Company, 1938-1939 .....                    | 20   |
| Subseries 3.11. Idaho-Maryland Mines Corp., 1952 .....                       | 20   |
| Subseries 3.12. Idarado Mining Company, 1939-1940 .....                      | 20   |
| Subseries 3.13. Lava Cap Gold Mine, 1936-1980 and undated.....               | 20   |

|   |    |
|---|----|
| Subseries 3.14. Massachusetts Hill Mining Company, 1888-1894 and undated .....        | 21 |
| Subseries 3.15. Middlefork Gold Mining Company, 1931-1942 .....                       | 21 |
| Subseries 3.16. Murchie Gold Mine, 1927-1937 and undated .....                        | 22 |
| Subseries 3.17. Newmont Mining Corporation, 1925-1984 and undated.....                | 22 |
| Subseries 3.18. New Verde Mines Company, 1958-1965 .....                              | 23 |
| Subseries 3.19. North Star Mining Company/North Star Mine, 1887-1951 and undated..... | 24 |
| Subseries 3.20. Pennsylvania Mine, 1913-1940 .....                                    | 26 |
| Subseries 3.21. Plumbago Gold Mine Company, 1922-1925.....                            | 26 |
| Subseries 3.22. Twin River Consolidated Mining Company, 1873-1912 .....               | 27 |
| Subseries 3.23. Union Hill Mines, 1915-1916.....                                      | 27 |
| Subseries 3.24. Yuba Drift and Mining Company, 1903-1905 and undated .....            | 27 |
| Subseries 3.25. Zeibright Mine, 1920-1956 and undated .....                           | 28 |
| Series 4. Personal Papers, 1883-1985 and undated.....                                 | 29 |
| Subseries 4.1. William Bourn, Jr., 1902-1928.....                                     | 29 |
| Subseries 4.2. Phil Keast, 1926-1981 and undated.....                                 | 30 |
| Subseries 4.3. Fred W. Nobbs, 1923-1955 and undated.....                              | 30 |
| Subseries 4.4. George W. Starr, 1883-1931 and undated .....                           | 31 |
| Subseries 4.5. Robert H. Svendsen, 1925-1985 and undated .....                        | 32 |
| Series 5. Photographic Material, 1929-1964 and undated .....                          | 33 |
| Series 6. Reference Files, 1893-1972 .....  | 35 |
| Series 7. Vendor Material, 1893-1982.....   | 39 |
| Subseries 7.1. Catalogs, 1899-1982 and undated .....                                  | 39 |
| Subseries 7.2. Correspondence, 1895-1967.....   | 47 |
| Subseries 7.3. Data Books and Data Sheets, 1918-1958 and undated.....                 | 48 |
| Subseries 7.4. Handbooks, 1935-1959 and undated .....                                 | 49 |
| Subseries 7.5. Industrial Publications, 1896-1960.....                                | 49 |
| Subseries 7.6. Instructions, 1906-1966.....   | 50 |
| Subseries 7.7. Parts/Price Lists, 1900-1970 and undated .....                         | 53 |
| Subseries 7.8. Product Information, 1948-1959 and undated.....                        | 56 |
| Subseries 7.9. Product Samples, 1923 and undated.....                                 | 57 |
| Subseries 7.10. Promotional Materials, 1893-1970 and undated.....                     | 57 |
| Series 8. Oversize Material .....   | 62 |
| Series 9. Restricted Material .....   | 62 |

## Descriptive Summary

**Title**

Empire Mine State Historic Park collection, 1866-1985 (bulk 1900-1960)

**Collection number**

Consult repository

**Collector**

Empire Mine (Calif.)

**Extent**

79 cubic feet

**Repository**

California State Parks. Cultural Resources Division. Sacramento, California 95814.

**Location of collection**

The collection is on deposit at the California State Archives, Sacramento.

**Abstract**

The Empire Mine State Historic Park Collection contains correspondence, financial and administrative material, mining records, employee records, and vendor material from the Empire Mine located in Grass Valley, California, and from other mines located throughout Nevada County, California. Mines and mining corporations documented in this collection include Empire Mine, North Star Mine, Empire Star Mines Company, Ltd., Newmont Mining Corporation, Champion Mine, Gaston Ridge Mine, Golden Center Mine, Lava Cap Gold Mine, Pennsylvania Mine, Twin River Consolidated Mining Company, Yuba Drift Mining Company, and Zeibright Mine. Also included in this collection are personal papers of William Bourn, Jr., Phil Keast, Fred W. Nobs, George W. Starr, and Robert H. Svendsen. These individuals were either owners or employees of one or more of the above listed mines and mining corporations. The records in this collection cover the years 1866 to 1985 with the bulk of the material ranging from 1900 to 1960.

## **Administrative Information**

### **Access**

This collection is open for research. Empire Star Mines Company, Ltd., employee records located in Box 9, Folders 23-24, 32, and 42 through Box 10, Folder 4 are permanently restricted.

### **Publication Rights**

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### **Preferred Citation**

[item] Empire Mine State Historic Park Collection. California State Parks, Sacramento, California.

### **Acquisition Information**

Primary donors include Empire Mine Park Association in 1980, 1983-1984, and 1986-1988; Phil Keast in 1979, 1991, and 1992; and Mildred Nobs in 1979 and 1981.

### **Processing History**

Processed by History Associates Incorporated, 2002.

## Organizational History

Grass Valley was once the richest gold mining district in California. The largest and most productive mining operations in the region were the Empire, North Star, and Idaho-Maryland mines. From 1900-1925 the Empire Mine, under the direction of George W. Starr, and the North Star Mine, under the direction of James D. Hague and A. D. Foote, produced most of the gold in all of Nevada County, California. George W. Starr wrote in a 1900 edition of *Mining and Science Press*, "In the history of gold mining in California the Empire stands preeminent, not alone for its wealth but for what the mine, above all others, has given in the way of example and earnest, well-applied endeavor. It is the pioneer in deep mining and the first to regard Grass Valley mining a legitimate business, controlled by the same laws and conditions as should govern a well-managed manufacturing establishment."

The discovery of gold-bearing quartz in the hillside above Grass Valley in 1850 marked the beginning of hard rock mining in the area. Near the site of the initial discovery, George D. Roberts purchased a hill in 1850 where Empire Mine would eventually be established. The next year, Roberts' sold his claim to Woodbury, Park, and Company who consolidated other nearby claims into the Ophir Hill Mine. In 1852, the Ophir Hill Mine was auctioned and acquired by two parties. Half of the mine was purchased by John R. Rush, and the other by the Empire Quartz Hill Company. Within two years, the Empire Quartz Hill Company bought out John R. Rush and became the sole owner of Ophir Hill Mine.

In 1854, the Ophir Hill Mine, along with other recently purchased adjacent claims, became the Empire Mining Company. Ten years later the Empire Mining Company was purchased by Captain S. W. Lee and A. H. Houston. In 1867, half of the interest in the company was sold to San Francisco investors, Conrise, Lake, Homer, and Associates and the next year they gained controlling interest.

William Bourn, Sr., gained control of the Empire Mining Company in 1869. During this year the mine also experienced its first recorded strike when mine workers protested the use of dynamite, which eliminated the need for two drillers per blast area. Empire Mine workers protested the use of dynamite again in 1872.

After his father's death, William Bourn, Jr. took over management of the Empire Mining Company and reorganized the company into the Original Empire Mill and Mining Company in 1879. Five years later he gained controlling interest in the nearby North Star Mine which he then sold to James D. Hague in 1887. The next year he also sold controlling interest in the Empire Mine to Hague, which he repurchased from Hague in 1896. After regaining controlling interest, Bourn reorganized the company and formed the Empire Mines and Investment Company.

Much of Empire Mine's success has been attributed to George W. Starr, cousin of William Bourn, Jr. Starr began work at Empire Mine as a mucker in 1881 (at the age of 19) and by 1887 was appointed superintendent of the mine. Reputed for introducing new mining techniques and tools, in 1890 he introduced compressed air drills, which increased the rate of development at Empire. Finally in 1893 he left Empire Mine to join John Hayes Hammond, a renowned mining

engineer, in the gold mines of South Africa. Starr returned to California in 1898 on his way to Alaska when Bourn persuaded him to return to Empire Mine.

Another factor in the early success of Empire was the immigration of skilled miners from Cornwall, England, to California. For over a thousand years, hard rock mining of tin and copper was carried out in Cornwall and the Cornishmen brought years of experience and the latest advances in hard rock mining equipment and technologies. Among the innovations was the "Cornish pump," which continued to be used in Grass Valley mines until the early 1930s. By the 1890s the population of Grass Valley was reportedly 85% Cornish and at one point, the Empire Mine labor force was made up of 90% Cornish miners.

From 1896 until production at Empire Mine ceased in 1956, mules were used underground to haul rock to the main mine shaft where it could then be hoisted to the surface. The mules lived underground in barns and were tended by "mule skimmers" who groomed them, checked for harness sores, and led them from place to place.

Early in the 1900s, under the direction of Bourn and Starr, Empire Mine was known as one of the most progressive and best-managed gold mines in the United States. Geologists and engineers from around the world reportedly traveled to Grass Valley to view the latest mining technologies in use at Empire. Empire also experienced two more labor disputes, the first in 1907 when workers sought to obtain an 8-hour workday and the other in 1919 when workers went on strike to obtain a \$1.00 per day wage increase and a 10% annual bonus. Empire also endured court proceedings lasting six years when in 1908 North Star Mine sued Empire Mine for trespass. Empire Mine settled the case out of court in 1914 for \$15,000.

In 1928 Empire Mines and Investment Company became the Empire Mines due to another reorganization of the company. The next year, William Bourn, Jr. sold Empire Mines to Fred Searls of the Newmont Mining Corporation. Newmont combined the Empire Mines operation with the recently acquired North Star Mine to form the Empire Star Mines Company, Ltd. That same year, George W. Starr retired and Fred. W. Nobs soon took over as mine manager.

By the 1930s, Empire Star Mines Company, Ltd., owned and operated at least 60 mines in the Nevada County area including Browns Valley, Bullion, Champion, Empire, Gold Hill, Kate Hayes, Massachusetts Hill, Murchie, New York Hill, North Star, Ophir, Osborne Hill, Pennsylvania, Rocky Bar, Sultana, Union Hill, W.Y.O.D., and Zeibright.

In 1942 the United States War Production Board issued order L-208 which halted all nonessential industries, including gold mining. Empire, as well as other mines in operation at the time, was forced to close. In subsequent years Empire Mine reopened under limited production but closed soon after due to poor profits. In 1947 Empire Mine reopened under lessee-operated conditions.

After 106 years of development in Grass Valley, Empire Mine was finally forced to shut down in 1956 due primarily to the Mine Workers Protective League wage strike. Since the mine was

already operating at a loss, new wage demands could not be met. For nearly 20 years after the closure, Newmont Mining Corporation minimally maintained the buildings and grounds and in 1975 sold the 750-acre property to the State of California to establish a state park.

## Chronology

- 1850 Quartz outcrops of present day Empire Mine were discovered by George D. Roberts, a lumberman, who purchased the entire hill where the mine was eventually established.
- 1851 George Roberts' claim purchased by Woodbury, Park, and Company, which consolidated other nearby claims into the Ophir Hill Mine.
- 1852 Ophir Hill Mine purchased at auction by two parties, John R. Rush and the Empire Quartz Hill Company (a group of local miners).
- 1854 John R. Rush sold his half of Ophir Hill Mine to the Empire Quartz Hill Company. The Ophir Hill Mine, along with other recently purchased adjacent claims, became the Empire Mining Company.
- 1856 Stamp mill constructed on Ophir Hill.
- 1863 Empire Mining Company closed due to rising production costs, drought conditions, and military conscription for the Union Army.
- 1864 Empire Mining Company purchased by Captain S. W. Lee and A. H. Houston.
- 1865 Steamboat Stamp Mill constructed.
- 1867 One half of the interest in Empire Mining Company sold to San Francisco investors, Conrise, Lake, Homer, and Associates.
- 1868 San Francisco investors, Conrise, Lake, Homer, and Associates gained control of Empire Mining Company.
- 1869 William Bourn, Sr., gained a controlling interest in Empire Mining Company.  
Empire Mine employees strike, protesting the use of dynamite, which eliminated the need for two drillers per blast area.
- 1870 Fire destroyed an Empire Mine mill, pumping and hoisting equipment, and supplies.  
F. Nesmith became superintendent of Empire Mine.
- 1872 Empire Mine employees strike protesting the use of dynamite.
- 1879 William Bourn, Jr., took over management of the Empire Mining Company and reorganized the Company into the Original Empire Mill and Mining Company.
- 1884 William Bourn, Jr., gained controlling interest in North Star Mine.
- 1885 William Bourn, Jr., established the Grass Valley Water Company to bring water to the Empire, North Star, Allison Ranch, and Idaho mines.
- 1887 George W. Starr, cousin of William Bourn, Jr., became superintendent of Empire Mine.
- 1888 Explosion at Empire Mine killed two men and destroyed dry house and the amalgamating building, blacksmithing, and carpentry works. Hoist equipment was also damaged.  
James D. Hague purchased controlling interest in the Original Empire Mill and Mining Company from William Bourn, Jr.  
William Bourn, Jr., gained control of the Massachusetts Hill Mining Company.
- 1893 George W. Starr departed Empire Mine to work at gold mines in Africa.  
Robert Walker became superintendent of Empire Mine.
- 1896 William Bourn, Jr., regained controlling interest of the Original Empire Mill and Mining Company.
- 1897 Empire Cottage and grounds constructed.
- 1898 George W. Starr returned as superintendent of Empire Mine.
- 1899 William Bourn, Jr., reorganized the Company and formed the Empire Mines and Investment Company.  
Empire Mine machine shop and carpentry shop constructed.  
Mules introduced to underground work at Empire Mine.

- 1901 George Starr completed a large-scale modernization project at Empire Mine. Upgrades included new head frame with rock crusher and ore bins, new pumps, new air compressors, new boilers, new hydraulic systems, a new office building and refinery, and a hot water heating system.
- 1907 Empire Mine employees strike to obtain an 8-hour workday.
- 1908-1914 North Star Mine sued Empire Mine for trespass. Empire Mine settled out of court for \$15,000.
- 1910 Cyanide plant constructed below stamp mill at Empire Mine.
- 1912 Empire Mine gained control of Pennsylvania Mine.
- 1918 Empire Mine stamp mill reconstructed.  
Electric-powered trains began to pull ore carts from Pennsylvania Mine to Empire Mine.
- 1919 Empire Mine employees strike for \$1.00 per day wage increase and a 10% annual bonus.
- 1920s Phil Keast began working at Empire Mine as a Master Mechanic.
- 1924 Empire Mine gained control of Sultana Mine.  
Empire and Pennsylvania Mines were connected underground.
- 1928 Empire Mines and Investment Company became the Empire Mines due to another reorganization of the company.
- 1929 William Bourn, Jr. sold Empire Mines to Fred Searls of the Newmont Mining Corporation. Newmont combined the operation of the recently acquired North Star Mine with Empire Mines. The new operation was named the Empire Star Mines Company, Ltd.
- 1930 Fred W. Nobs became manager of Empire Mine.  
An aerial tramway was constructed to deliver ore to Empire Mine from North Star Mine for processing.  
Engineer's office is constructed at Empire Mine.
- 1931 Empire and North Star mines were physically united when a "manway" was constructed between the two mines.
- 1932 Empire Star Mines Company, Ltd., purchased Murchie Mine.
- 1933 Empire Star Mines Company, Ltd., purchased the entire Sultana group consisting of 27 claims.
- 1939 Jack Mann became manager of Empire Mine.
- 1940s-1970s Robert H. Svendsen began consulting work for Empire Star Mines Company, Ltd.
- 1942 Empire Mine closed due to War Production Board order L-208 which halted all nonessential industries.
- 1945 Empire Mine reopened under limited production due to a labor shortage.
- 1946 Empire Mine closed due to poor profits, however milling operations continued.
- 1947 Empire Mine reopened under lessee-operated conditions.
- 1956 Mine Workers Protective League called for a strike at the Empire Mine due to inadequate wages.
- 1957 Empire Mine strike continued, the mine closed, and Newmont Mining Corporation began liquidation of equipment. Liquidation completed under the name New Verde Mines Company.
- 1959 Empire Mine equipment sold at auction.
- 1975 Empire Mine property purchased by the State of California to establish a state park.

## Collection Scope and Content Summary

The Empire Mine State Historic Park Collection contains correspondence, financial and administrative material, mining records, employee records, and vendor material from the Empire Mine located in Grass Valley, California, and from other mines located throughout Nevada County, California. Mines and mining corporations documented in this collection include Empire Mine, North Star Mine, Empire Star Mines Company, Ltd., Newmont Mining Corporation, Champion Mine, Gaston Ridge Mine, Golden Center Mine, Lava Cap Gold Mine, Pennsylvania Mine, Twin River Consolidated Mining Company, Yuba Drift Mining Company, and Zeibright Mine. Also included in this collection are personal papers of William Bourn, Jr., Phil Keast, Fred W. Nobs, George W. Starr, and Robert H. Svendsen. These individuals were either owners or employees of one or more of the above listed mines and mining corporations. The records in this collection cover the years 1866 to 1985 with the bulk of the material ranging from 1900 to 1960.

The material in this collection is largely textual and consists of correspondence, account books and ledgers, invoices and receipts, reports, vendor publications, and equipment diagrams, instructions, and notes. Other formats, located in Series 5 and scattered throughout the collection, are photographs and slides.

Much of the collection is made up of vendor material, located in Series 7, and includes catalogs, correspondence, parts and price lists, and other publications. The bulk of the vendor material is catalogs with dates ranging from 1899 to 1982. Vendors that are well represented in the collection are Bethlehem Steel Company, Crane Company, Caterpillar Tractor Company, General Electric Company, Ingersoll-Rand, Joy Manufacturing Company, Link Belt Company, John A. Roebling's Sons Company, and Westinghouse.

In addition to vendor correspondence in Series 7, there is also vendor correspondence in Series 2, Empire Star Mines Company, Ltd. equipment records, and Series 4, personal papers of Phil Keast. In his work at Empire Mine and with other mines, Phil Keast often used the back of vendor correspondence and envelopes for mining equipment notes and diagrams. Equipment notes and diagrams are typically filed by mine and then topically by equipment type.

The other major emphasis in this collection is mining in Nevada County, California. Nevada County mines and mining companies represented in this collection include, Banner, Bullion, Champion, Empire, Empire Star Mines Company, Ltd., Gaston Ridge, Golden Center, Idaho-Maryland, Lava Cap, Massachusetts Hill, Murchie, New Verde Mines Company, North Star, Pennsylvania, Union Hill, and Zeibright. Other California mines include Forest, Plumbago, the Yuba Drift Mining Company, and Golden Dream Mine. Mines located in neighboring states include Idarado Mining Company in Colorado and Twin River Consolidated Mining Company in Nevada. Two other mining companies included in this collection are Gray Rock Mining Company and Middlefork Gold Mining Company.

Series 1, Empire Mine, and Series 2, Empire Star Mines Company, Ltd., make up the bulk of the mining records. Most of the records are accounting and administrative records and are dated 1871-1977, the bulk of the records are from 1910-1950. These records include accident reports,

supplies and shipment records, mine safety publications and meeting minutes, records on leases of land to private individuals, and correspondence of mine managers and owners such as, A. D. Foote, William Hague, Fred W. Nobbs, Fred Searls, and George W. Starr.

Documents within folders are arranged in chronological order by date and undated material resides at the end of each folder. The overall arrangement of the collection was imposed during processing in the absence of a usable original order.

The collection is organized into nine series:

- Series 1. Empire Mine, 1866-1984. 5.25 cubic ft.
- Series 2. Empire Star Mines Company, Ltd., 1905-1977. 5.5 cubic ft.
- Series 3. Other Mines and Mining Company Records, 1873-1984 and undated. 7.25 cubic ft.
- Series 4. Personal Papers, 1883-1985 and undated. 2.5 cubic ft.
- Series 5. Photographic Material, 1929-1964 and undated. .5 cubic ft.
- Series 6. Reference Files, 1893-1972. 4.5 cubic ft.
- Series 7. Vendor Material, 1893-1982. 35.75 cubic ft.
- Series 8. Oversize Material. 17.5 cubic ft.
- Series 9. Restricted Material. .25 cubic ft.

### **Separated Material**

Loose maps, blueprints, figures, and drawings that were not originally associated with files in the collection prior to processing were removed from the collection and are stored at the Empire Mine State Historic Park.

## **Indexing Terms**

The following terms have been used to index the description of this collection:

Empire Mine (Calif.)--Archives.

Gold mines and mining--California--Nevada County--Archival resources.

Historic sites--California--Nevada County--Archival resources.

## Collection Contents

### Series 1. Empire Mine, 1866-1984. 5.25 cubic ft.

#### Series Scope and Content Summary

This series contains the organizational records of the Empire Mine created from 1866 until the 1950s, both prior to and after the establishment of Empire Star Mines Company, Ltd. The bulk of the records are from 1900-1935.

Subseries 4.5, personal papers of Robert H. Svendsen, includes diamond drilling reports from Empire Mine during the 1970s; and Series 5, photographic material, contains photographs of Empire Mine, including equipment, staff, and the blacksmith shop.

This series is arranged into six subseries:

- Subseries 1.1. Accounting Records, 1871-1951. 1 cubic ft.
- Subseries 1.2. Administrative Records, 1895-1944. 1 cubic ft.
- Subseries 1.3. Employee Records, 1908-1923 and undated. .5 cubic ft.
- Subseries 1.4. Legal Records, 1901-1920 and undated. .5 cubic ft.
- Subseries 1.5. Mining Records, 1866-1959 and undated. 2 cubic ft.
- Subseries 1.6. Topical Files, 1898-1984 and undated. .5 cubic ft.

### Subseries 1.1. Accounting Records, 1871-1951. 1 cubic ft.

#### Subseries Scope and Content Summary

This subseries contains financial records including banking materials, income and expense information, invoices and receipts, and time books.

This subseries is arranged alphabetically by subject.

| <u>Folder Title</u>   | <u>Box : Folder</u> |
|---|---------------------|
| Account books   | 1 : 1-4             |
| 1897  | 1 : 1               |
| 1942  | 1 : 2               |
| Powder, fuse, cap, illuminations, and steel issued and accident claims, 1899-1912 | 1 : 3               |
| Tube mill plates and batteries, 1923-1929   | 1 : 4               |
| Amalgam and bullion record, 1895  | 1 : 5               |
| Banking forms (blank), undated  | 1 : 6               |
| Check ledger, Nevada County Bank, 1920-1922                                       | 1 : 7               |
| Checks, 1921-1922   | 1 : 8               |
| Contractors and leasors ledger, 1919  | 1 : 9               |
| Cost estimate of equipment ordered, undated                                       | 1 : 10              |
| Expense distributions, 1951   | 1 : 11              |
| Expense tables, 1928  | 1 : 12              |

| <b><u>Folder Title</u></b>  | <b><u>Box : Folder</u></b> |
|---|----------------------------|
| Income and expenses, 1913   | 1 : 13                     |
| Insurance compensation, 1951  | 1 : 14                     |
| Liberty bond receipt book, 1919                                       | 1 : 15                     |
| Monthly materials used report, 1916-1917                              | 1 : 16                     |
| Invoices and receipts   | 1 : 17-37                  |
| Alpha Hardware and Supply Company, 1917-1918 and 1921                 | 1 : 17                     |
| Alpha Stores, 1933  | 1 : 18                     |
| Barnes Lumber Company, 1917   | 1 : 19                     |
| Clinch Mercantile Company, 1916-1920                                  | 1 : 20                     |
| Crane Company, 1917   | 1 : 21                     |
| George Bros. Foundry and Machine Works, 1917-1920                     | 1 : 22                     |
| George Bros. Garage, 1918-1920  | 1 : 23                     |
| Goodyear Rubber Company, 1917 and 1930                                | 1 : 24                     |
| Grass Valley Garage, 1917-1920  | 1 : 25                     |
| Grass Valley Lumber Company, 1917-1918                                | 1 : 26                     |
| Hanks, Abbot A., 1918   | 1 : 27                     |
| Hughson, William L., Company, 1919                                    | 1 : 28                     |
| Ingersoll-Rand Company, 1917-1919                                     | 1 : 29                     |
| Laidlaw and Company, 1897-1898  | 1 : 30                     |
| Miner's Foundry, 1919   | 1 : 31                     |
| Miscellaneous, A-T, 1917-1924   | 1 : 32                     |
| Nevada County Bank, 1917-1918   | 1 : 33                     |
| Standard Oil Company, 1917  | 1 : 34                     |
| Taylor's Foundry and Engineering Company, 1917-1920                   | 1 : 35                     |
| Upham, Isaac, Company, 1917-1919                                      | 1 : 36                     |
| Western Electric Company, 1917  | 1 : 37                     |
| Original Mill and Mining Company Annual Statement, 1899               | 1 : 38                     |
| Payroll ledger (Bourn v. Watt), 1875-1879                             | 1 : 39                     |
| Shipments, slide mines, 1916-1921                                     | 1 : 40                     |
| Supply lists, 1918  | 1 : 41                     |
| Time books, 1871-1872, 1911-1919, 1920-1928, 1944-1948, and 1950-1951 | 1 : 42-48                  |
| Travel expense diary, 1924  | 1 : 49                     |
| Water fees billed to users, 1916                                      | 1 : 50                     |
| Weigh clerk's book of deposits of gold bullion, 1914-1915             | 1 : 51                     |

**Subseries 1.2. Administrative Records, 1895-1944. 1 cubic ft.****Subseries Scope and Content Summary**

This subseries contains accident reports, correspondence, blank administrative forms, and supply information.

Correspondence to Phil Keast and Empire Mine regarding the introduction of new products and answers to equipment queries may also be found in Subseries 7.2, vendor correspondence.

This subseries is arranged alphabetically by subject.

| <b><u>Folder Title</u></b>  | <b><u>Box : Folder</u></b> |
|---|----------------------------|
| Accident reports, 1913  | 1 : 52                     |
| Core drilling contract, Sullivan Machinery Company, 1923                  | 2 : 1                      |
| Correspondence  | 2 : 2-11                   |
| Foote, A. D., 1909-1910   | 2 : 2                      |
| Hague, William, 1912-1916   | 2 : 3                      |
| Hendricks, Robert J., 1916, 1942, and 1944                                | 2 : 4                      |
| Hilliard, William A., 1918-1921 and undated                               | 2 : 5                      |
| Nobs, Fred W., 1921-1924 and undated                                      | 2 : 6                      |
| Searls, Fred, 1925-1933   | 2 : 7                      |
| Starr, George W., 1904-1924 and undated                                   | 2 : 8                      |
| Tuscarora Associates, 1928  | 2 : 9                      |
| Vestal, Frank, 1917   | 2 : 10                     |
| Unidentified, 1899 and undated  | 2 : 11                     |
| Cost estimate for new balance hoist, 1910                                 | 2 : 12                     |
| Cost of labor and lumber, 1898-1901                                       | 2 : 13                     |
| Employee list, undated  | 2 : 14                     |
| Forms (blank), undated  | 2 : 15                     |
| Front door handles diagram, undated                                       | 2 : 16                     |
| Hay tolerance regulations, 1917-1918                                      | 2 : 17                     |
| Grass Valley telephone directory, undated                                 | 2 : 18                     |
| Index to precinct register, Nevada County, 1925                           | 2 : 19                     |
| Insurance records, State Life Insurance Company, 1904                     | 2 : 20                     |
| Letterhead (blank), undated   | 2 : 21                     |
| Map filing instructions, undated  | 2 : 22                     |
| Mine safety rules, 1916   | 2 : 23                     |
| Original Mill and Mining Company record book (Empire 2), 1895-1897        | 2 : 24                     |
| Patent records, George W. Starr and Richard McKinley concentrators, 1888  | 2 : 25                     |
| Shipping statement, Minneapolis Steel and Machinery Company, 1915         | 2 : 26                     |
| Stenographers notebooks, Vivian Hosking, 1921-1929                        | 2 : 27-32                  |
| Summary of junk valuation of Empire Mines building and equipment, undated | 2 : 33                     |
| Supply report - Lime, 1921  | 2 : 34                     |

**Subseries 1.3. Employee Records, 1908-1923 and undated. .5 cubic ft.****Subseries Scope and Content Summary**

This subseries contains employee recommendations, work logs, shift notes, Liberty Bond account information, and Young Men's Christian Association (Y.M.C.A.) War Work Fund material.

This subseries is arranged alphabetically by subject.

| <b><u>Folder Title</u></b>                           | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| Application for employment, 1923                     | 2 : 35                     |
| Bonus notes, 1916-1918                               | 2 : 36                     |
| Bonuses, 1916 and undated                            | 2 : 37                     |
| Daily work log, Mr. Chas. Lucas, 1911-1912           | 2 : 38                     |
| Discipline book, 1886-1904                           | 2 : 39                     |
| Drill sheets, 1917-1918                              | 2 : 40                     |
| Drill shift notes, 1916-1918                         | 3 : 1                      |
| Job assignments, undated                             | 3 : 2                      |
| Liberty bond accounts                                | 3 : 3-6                    |
| 1917-1919  | 3 : 3-4                    |
| Surrendered, 1917-1919                               | 3 : 5                      |
| Unpaid, 1917-1919                                    | 3 : 6                      |
| Military service, 1918-1919                          | 3 : 7                      |
| Missing information notes, undated                   | 3 : 8                      |
| Petition for wage increase, undated                  | 3 : 9                      |
| Recommendations, 1908-1917                           | 3 : 10                     |
| Shop cards, Howard Lucas, 1918                       | 3 : 11                     |
| Unidentified log, undated                            | 3 : 12                     |
| Wage rate record, undated                            | 3 : 13                     |
| Workman's Compensation and Safety Law pamphlet, 1919 | 3 : 14                     |
| Y.M.C.A. War Work Fund                               | 3 : 15-22                  |
| Correspondence, 1917-1918                            | 3 : 15                     |
| Donation receipts, 1917-1918                         | 3 : 16-21                  |
| Reports, undated                                     | 3 : 22                     |

**Subseries 1.4. Legal Records, 1901-1920 and undated. .5 cubic ft.****Subseries Scope and Content Summary**

This subseries contains court case documents, deeds, and property descriptions. Of note in this subseries are the case records from the 1908-1914 trespass suit of *North Star Mine vs. Empire Mine*.

This subseries is arranged alphabetically by subject.

| <b><u>Folder Title</u></b>  | <b><u>Box : Folder</u></b> |
|---|----------------------------|
| Deeds, 1869 and 1901  | 3 : 23                     |
| <i>Carr, C.G., vs. Empire Mines and Investment Company</i> , 1920                           | 3 : 24                     |
| <i>North Star Mine vs. Empire Mine</i> , 1915-1916  | 3 : 25-26                  |
| <i>Pennsylvania Consolidated Mining Company vs. Grass Valley Exploration Company</i> , 1902 | 3 : 27                     |
| Property descriptions, undated  | 3 : 28                     |
| <i>Yuba County vs. Kate Hayes Mining Company et. al.</i> , 1903                             | 3 : 29                     |

### **Subseries 1.5. Mining Records, 1866-1959 and undated. 2 cubic ft.**

#### **Subseries Scope and Content Summary**

This subseries contains primarily equipment records as well as logs and reports of mining activities at Empire.

This subseries is arranged alphabetically by subject.

| <b><u>Folder Title</u></b>                              | <b><u>Box : Folder</u></b> |
|---|----------------------------|
| "Brunton Survey of New Work 1400 Goldfield Split," 1931 | 3 : 30                     |
| Daily report, undated                                   | 3 : 31                     |
| Diabase report, 1940                                    | 3 : 32                     |
| Diamond drill records, 1929-1956                        | 3 : 33-34                  |
| Drain tunnel drawing, undated                           | 4 : 1                      |
| Drawing of Empire Mine, undated                         | 4 : 2                      |
| Equipment   | 4 : 3-41                   |
| Auto Starter, undated                                   | 4 : 3                      |
| Bench grinder, undated                                  | 4 : 4                      |
| Cables, 1939  | 4 : 5                      |
| Circuit breakers, 1916                                  | 4 : 6                      |
| Compressors, 1887, 1902, 1927, and undated              | 4 : 7                      |
| Crusher, 1903 and undated                               | 4 : 8                      |
| Double movement timelock, undated                       | 4 : 9                      |
| Drills and bits, 1950 and undated                       | 4 : 10                     |
| Dust collectors, undated                                | 4 : 11                     |
| Filters, 1956   | 4 : 12                     |
| Fire monitors, undated                                  | 4 : 13                     |
| Grinding wheels, undated                                | 4 : 14                     |
| Hoists, 1941 and undated                                | 4 : 15                     |
| Insulation tester, 1959                                 | 4 : 16                     |
| Intake and discharge uploader, 1927                     | 4 : 17                     |
| Locomotives, 1916-1919                                  | 4 : 18                     |
| Lubricator, undated                                     | 4 : 19                     |
| Machine records, 1916-1917                              | 4 : 20                     |
| Maintenance and parts log, 1921-1937                    | 4 : 21                     |
| Maintenance logs, 1910-1912 and 1930-1950s              | 4 : 22-24                  |

| <u>Folder Title</u>   | <u>Box : Folder</u> |
|---|---------------------|
| Equipment (continued)   |                     |
| Mine car bearings, undated  | 4 : 25              |
| Miscellaneous diagrams notebook, 1938-1939 and undated                        | 4 : 26-28           |
| Motors, 1930s -1940 and undated   | 4 : 29              |
| Pulleys, 1949   | 4 : 30              |
| Pumps, 1937-1962 and undated  | 4 : 31              |
| Resistors, 1926   | 4 : 32              |
| Steam engine indicator, 1914  | 4 : 33              |
| Storage battery trailer truck, 1919   | 4 : 34              |
| Suction uploader, undated   | 4 : 35              |
| Telephones, undated   | 4 : 36              |
| Thermo-electric pyrometer, 1926   | 4 : 37              |
| Transformers, 1935  | 4 : 38              |
| Unidentified, undated   | 4 : 39              |
| Water piping, 1957 and undated  | 4 : 40              |
| Water wheels, shafting and pulleys, 1866 and 1886                             | 4 : 41              |
| Welding generator brushes, undated  | 4 : 42              |
| Field book, undated   | 4 : 43              |
| Gunite costs, 1923  | 4 : 44              |
| Hay and manure daily reports, 1931  | 5 : 1               |
| Mill log, 1906-1907   | 5 : 2               |
| Milling and cleanup record, 1911  | 5 : 3               |
| Mine production reports (daily), 1952-1954                                    | 5 : 4-6             |
| Mine vein report, 1400 Empire development, 1956                               | 5 : 7               |
| Ore samples notebook, 1931-1933   | 5 : 8               |
| Powder, fuses, caps, and illuminants, 1914-1920                               | 5 : 9               |
| Pump test chart and diagram, 1905   | 5 : 10              |
| Quartz and waste hoist reports, 1898  | 5 : 11              |
| Quartz and waste, powder, fuse, and cap record, 1901-1902                     | 5 : 12              |
| Quartz and waste rock hoisted (Empire ?), 1915-1919                           | 5 : 13              |
| Shaft record, ca. 1900-1914   | 5 : 14              |
| Shaft report, undated   | 5 : 15              |
| Shift bosses' daily report and stope drawings, 1942                           | 5 : 16              |
| State mineralogist's report of production source of bullion or ore, 1955-1956 | 5 : 17              |
| Stope production reports, 1956  | 5 : 18              |
| Supplies issued, 1900   | 5 : 19              |
| Supply records, powder and fuse daily reports, 1919                           | 5 : 20              |
| Timber tally notes, 1917  | 5 : 21              |
| Tool shop records, 1916-1921  | 5 : 22              |
| Water flows, undated  | 5 : 23              |

**Subseries 1.6. Topical Files, 1898-1984 and undated. .5 cubic ft.****Subseries Scope and Content Summary**

This subseries includes training certificates, histories of Empire Mine and Grass Valley residents, newspaper clippings on mines and mining, postcards, and other materials pertaining to life in Nevada County, California, primarily during the 1920s-1950s.

This subseries is arranged alphabetically by subject.

| <b><u>Folder Title</u></b>   | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| American Mining Congress Convention, 1962  | 5 : 24                     |
| American National Red Cross certificate, 1946  | 5 : 25                     |
| Bureau of Mines Certificate of Mine Rescue and First Aid, 1921                       | 5 : 26                     |
| Bureau of Mines first aid training certificates, 1932-1933                           | 5 : 27                     |
| Byron Jackson Company announcement of new office, 1952                               | 5 : 28                     |
| Consolidated Airlines brochure, 1935   | 5 : 29                     |
| Grass Valley Annexation District, no. 22, 1963                                       | 5 : 30                     |
| Grass Valley High School football program, 1947                                      | 5 : 31                     |
| Histories  | 5 : 32-35                  |
| Brennan family, Grass Valley, undated  | 5 : 32                     |
| Empire Mine and William Bourn, 1932, 1963, and undated                               | 5 : 33                     |
| Empire Mine State Historic Park, 1933-1984 and undated                               | 5 : 34                     |
| Empire Mine State Historic Park, Empire Mine Park Association, 1977-1984 and undated | 5 : 35                     |
| <i>Nevada: The Banner Gold County of California</i> , undated                        | 5 : 36                     |
| Newspaper clippings, 1898-1984   | 5 : 37-6 : 5               |
| Post cards   | 6 : 6-7                    |
| Grass Valley, Nevada City, undated   | 6 : 6                      |
| Mining Machinery, New Mexico, undated  | 6 : 7                      |
| Sheriff's appointment, Nevada County, 1941   | 6 : 8                      |
| Union Hill School District, meeting notice and minutes, 1924                         | 6 : 9                      |
| War Chest Association, Grass Valley, financial reports, 1919 and undated             | 6 : 10                     |

**Series 2. Empire Star Mines Company, Ltd., 1905-1977. 5.5 cubic ft.****Series Scope and Content Summary**

This series contains the organizational records of the Empire Star Mines Company, Ltd., which was established by Newmont Mining Corporation in 1929 from the merger of Empire Mines and North Star Mines. The bulk of the records date from 1930-1955.

Subseries 4.5, the personal papers of Robert H. Svendsen, include drawings of the "Empire Star" from the 1970s.

This series is arranged into five subseries:

- Subseries 2.1. Accounting Records, 1905-1956 and undated. 1.5 cubic ft.
- Subseries 2.2. Administrative Records, 1911-1977 and undated. 1.75 cubic ft.
- Subseries 2.3. Employee Records, 1928-1963. .5 cubic ft.
- Subseries 2.4. Legal Records, 1936-1975 and undated. 1.5 cubic ft.
- Subseries 2.5. Mining Records, 1929-1954. .25 cubic ft.

**Subseries 2.1. Accounting Records, 1905-1956 and undated. 1.5 cubic ft.****Subseries Scope and Content Summary**

This subseries contains financial records including income and expense records, invoices and receipts, and lease records.

This subseries is arranged alphabetically by subject.

| <u>Folder Title</u>   | <u>Box : Folder</u> |
|---|---------------------|
| Amalgam and bullion records ledger (blank), undated                   | 6 : 11              |
| Assay office deposit forms, 1956                                      | 6 : 12              |
| Browns Valley power distribution, 1951                                | 6 : 13              |
| Bullion deposit memo report, 1951                                     | 6 : 14              |
| Bullion shipment records, 1947-1954                                   | 6 : 15              |
| Compensation insurance summary for policy for year ending May 1, 1939 | 6 : 16              |
| Concentrate return forms, 1956  | 6 : 17              |
| Cost statement, 1934  | 6 : 18              |
| Credit sales, 1951  | 6 : 19              |
| Credits and debits ledger, 1937-1941                                  | 6 : 20              |
| Expense account voucher, 1950   | 6 : 21              |
| Expense report, Phil Keast, 1952                                      | 6 : 22              |
| Financial statements, 1950-1956                                       | 6 : 23              |
| Invoices and receipts   | 6 : 24-7 : 18       |
| Cash receipts, 1951   | 6 : 24              |
| George Bros., 1938  | 6 : 25              |
| Happy Camp, California, 1951  | 6 : 26              |
| Mine Machinery Corp., 1938-1941                                       | 6 : 27-29           |

| <u>Folder Title</u>                                   | <u>Box : Folder</u> |
|---|---------------------|
| Invoices and receipts (continued)                     |                     |
| Miscellaneous, A-W, 1933-1936 and undated             | 6 : 30              |
| Nevada County Narrow Gage Railroad Company, 1934-1935 | 6 : 31              |
| Pan-American Engineering Corp., 1933-1935             | 6 : 32              |
| Railway Express Agency Inc., 1932-1938                | 6 : 33              |
| Ralphs-Pugh Company, 1932-1935                        | 6 : 34              |
| Remington Rand Incorporated, 1932-1935                | 6 : 35              |
| Richfield Oil Company, 1932-1935                      | 6 : 36              |
| Rix Company, 1933-1935                                | 6 : 37              |
| Robinson, Guy, 1935                                   | 6 : 38              |
| Rosenberg, T. L., Company, 1932-1935                  | 6 : 39              |
| Sacramento Pipe Works, 1932-1935                      | 6 : 40              |
| Sampson, W. M., 1933-1935                             | 6 : 41              |
| Sandvik Steel, 1933-1934                              | 6 : 42              |
| San Francisco Association for the Blind, 1932-1935    | 6 : 43              |
| Schwabacher-Frey Company, 1932-1935                   | 6 : 44              |
| Simonds Saw and Steel Company, 1932-1935 and 1943     | 6 : 45              |
| South, E. C., Company Inc., 1932-1935                 | 6 : 46              |
| Standard Oil Company, 1932-1934                       | 6 : 47              |
| Stockton Fire Brick Company, 1932-1934                | 6 : 48              |
| Sullivan Machinery Company, 1933-1935                 | 6 : 49              |
| Sun Tent-Luebbert Company, 1932-1935                  | 6 : 50              |
| Taylor and Spotswood Company, 1934-1935               | 6 : 51              |
| Taylor's Foundry and Engineering Company, 1932-1935   | 6 : 52              |
| Texas Company, 1933-1934                              | 6 : 53              |
| Tickell, Alfred Dr., 1933                             | 6 : 54              |
| Tubbs Cordage Company, 1933-1935                      | 6 : 55              |
| Tucker-Gilmore Manufacturing Company, 1935            | 6 : 56              |
| Timken Roller Bearing Company, 1932-1933              | 6 : 57              |
| Tyler, W. S., Company, 1932-1935                      | 6 : 58              |
| Underwood Elliott Fisher Company, 1934                | 7 : 1               |
| Union Assay Office, 1933-1934                         | 7 : 2               |
| Union Oil Company of California, 1933                 | 7 : 3               |
| Union Publishing Company, 1934-1935                   | 7 : 4               |
| United Commercial Company, 1932-1934                  | 7 : 5               |
| Universal Rubber Manufacturing Company, 1932-1935     | 7 : 6               |
| Van Dorn Electric Tool Company, 1933                  | 7 : 7               |
| Victor Equipment Company, 1935                        | 7 : 8               |
| Waterhouse-Lester-Scover Company, 1933-1934           | 7 : 9               |
| Wayland Company Incorporated, 1933                    | 7 : 10              |
| West Coast Electric Works, 1935                       | 7 : 11              |
| Western Machinery Company, 1932-1935                  | 7 : 12              |
| Western Purchasing Agency, 1932                       | 7 : 13              |
| Western Union, 1932-1935                              | 7 : 14              |

| <u>Folder Title</u>                                    | <u>Box : Folder</u> |
|--|---------------------|
| Invoices and receipts (continued)                      |                     |
| Westinghouse Electric Manufacturing Company, 1932-1935 | 7 : 15              |
| White Company, 1932-1935                               | 7 : 16              |
| Worthington Company, 1932-1935                         | 7 : 17              |
| Yuba Consolidated Gold Fields, 1935                    | 7 : 18              |
| Journal vouchers, 1951                                 | 7 : 19              |
| Labor distribution, 1951                               | 7 : 20              |
| Lease notebook, A-Z, 1930-1931                         | 7 : 21-23           |
| Leases   | 7 : 24-32           |
| Austin, A. W., 1950                                    | 7 : 24              |
| Bendorf, 1937  | 7 : 25              |
| Bolanger and Crane, 1937-1942                          | 7 : 26              |
| Borham, A. S., 1948                                    | 7 : 27              |
| Conner and Roberts, 1947                               | 7 : 28              |
| Forsythe, C., 1948                                     | 7 : 29              |
| Giller, H. T., 1937-1938                               | 7 : 30              |
| Newgent, F., 1937                                      | 7 : 31              |
| Perkins, D., 1949 and 1951                             | 7 : 32              |
| New employed, 1951                                     | 7 : 33              |
| Payroll deductions and taxes, 1951                     | 7 : 34              |
| Production and shipment records, 1936-1943             | 7 : 35              |
| Property tax receipt for Star Mining Company, 1905     | 7 : 36              |
| Returns, 1951  | 7 : 37              |
| Special development expense, 1955                      | 7 : 38              |
| Stock (supplies) record, 1939-1940                     | 7 : 39              |
| War bond sales, 1942                                   | 7 : 40              |
| Warehouse "A," 1951                                    | 7 : 41              |
| Warehouse "B," 1951                                    | 7 : 42              |

## **Subseries 2.2. Administrative Records, 1911-1977 and undated. 1.75 cubic ft.**

### **Subseries Scope and Content Summary**

This subseries contains accident reports, correspondence, safety manuals, and shipment records.

This subseries is arranged alphabetically by subject.

| <u>Folder Title</u>                            | <u>Box : Folder</u> |
|--|---------------------|
| Accident ratings, 1941-1942                    | 7 : 43              |
| Accident reports, 1932, 1942-1956, and undated | 7 : 44              |
| Administrative notebook, 1911-1917             | 7 : 45              |
| Annual reports, 1929-1956                      | 7 : 46              |

| <u>Folder Title</u>  | <u>Box : Folder</u> |
|--|---------------------|
| Auction records  | 7 : 47-48           |
| Correspondence, 1959   | 7 : 47              |
| Inventories, 1959  | 7 : 48              |
| Auto repair notebook, 1931-1933  | 7 : 49              |
| Calendar, W. P. Butler, 1939   | 7 : 50              |
| Cooperative Mine Rescue Station, 1948-1949   | 7 : 51              |
| Correspondence   | 7 : 52-59           |
| Fitzpatrick, H. R., 1951-1956  | 7 : 52              |
| Keast, Phil, 1949-1950 and undated   | 7 : 53              |
| Mann, J. R. C., 1940-1943 and 1956   | 7 : 54              |
| Nettell, Fred E., 1951   | 7 : 55              |
| Nobs, Fred W., 1931-1942   | 7 : 56              |
| Searls, Fred, 1936-1941  | 7 : 57              |
| Severson, Davis, and Larson, 1956  | 7 : 58              |
| Svendsen, Robert H., 1940-1942 and 1977  | 7 : 59              |
| Data book, ca. 1952-1956   | 7 : 60              |
| Diaries, 1938 and 1940   | 8 : 1               |
| Forms (blank), ca. 1930s-1950s and undated   | 8 : 2               |
| Freight orders, 1932-1934  | 8 : 3-9             |
| Insurance - "Compensation Safety Standards," by Pacific Employers Insurance Company, undated                             | 8 : 10              |
| Labor negotiations, 1933-1956 and undated  | 8 : 11              |
| Leaser accidents and lost days reports, 1947-1950  | 8 : 12              |
| Liquidation records, 1957-1959 and undated   | 8 : 13              |
| Mine exit safety reports, 1947-1950  | 8 : 14              |
| Mine inspection materials, Phil Keast, 1955-1956   | 8 : 15              |
| Mine output history, undated   | 8 : 16              |
| Mine ownership, undated  | 8 : 17              |
| "Miners Hospital Association Rules and Regulations," 1940  | 8 : 18              |
| Mines of the Empire Star list, undated   | 8 : 19              |
| Mining Directory - <i>Catalog and Engineers Handbook</i> by the Mining Department, Los Angeles Chamber of Commerce, 1932 | 8 : 20              |
| Operations statement, 1939-1940  | 8 : 21              |
| Payroll report, 1933   | 8 : 22              |
| Photo index, undated   | 8 : 23              |
| Plant valuation, undated   | 8 : 24              |
| Power conversion to P.G. and E., 1956-1962 and undated   | 8 : 25              |
| Proposal and specifications, General Electric hoist, 1934  | 8 : 26              |
| Replacement valuation, undated   | 9 : 1               |
| Safety banquet, 1950-1953  | 9 : 2               |
| Safety Committee meeting minutes, 1929-1930 and 1947-1950  | 9 : 3               |
| Safety manuals   | 9 : 4-12            |
| <i>Air Pressure Tank Safety Orders</i> , 1942 and 1945   | 9 : 4               |
| <i>Compressed Air Safety Orders</i> , 1933 and 1951  | 9 : 5               |

| <u>Folder Title</u>   | <u>Box : Folder</u> |
|---|---------------------|
| Safety manuals (continued)  |                     |
| <i>Electrical Safety Orders, 1925 and 1945</i>  | 9 : 6               |
| <i>General Industry Safety Orders, 1955</i>   | 9 : 7               |
| <i>Mechanical Powers Transmission Safety Orders, 1937</i>   | 9 : 8               |
| <i>Mine Safety Orders, 1938, 1944-1945, and undated</i>   | 9 : 9               |
| <i>Prevention of Forest Fires, undated</i>  | 9 : 10              |
| <i>Safety Rules for Compressor Systems, 1960</i>  | 9 : 11              |
| <i>Trucking, 1949</i>   | 9 : 12              |
| Safety notices, undated   | 9 : 13              |
| Safety pamphlet, undated  | 9 : 14              |
| Shift boss accident records, 1941-1942  | 9 : 15              |
| Shipments record, 1940-1942   | 9 : 16-17           |
| Shipments, concentrate, 1938-1942   | 9 : 18              |
| Shipping statement, Ingersoll-Rand, 1959  | 9 : 19              |
| Summary of lost time, accidents, and days lost, 1930-1933   | 9 : 20              |
| Value of the buildings and equipment of the Empire and Pennsylvania mines after depreciation, undated | 9 : 21              |
| Visitor permits, 1968-1972  | 9 : 22              |

### **Subseries 2.3. Employee Records, 1928-1963. .5 cubic ft.**

#### **Subseries Scope and Content Summary**

This subseries includes draft cards, medical reports resulting from accidents, pay scales, Mine Workers Protective League material, and United Steel Workers of America material.

This subseries is arranged alphabetically by subject.

| <u>Folder Title</u>   | <u>Box : Folder</u> |
|---|---------------------|
| Applications for unemployment as a result of the strike, 1956 [RESTRICED] | 9 : 23-24           |
| Christmas payroll, 1962-1963  | 9 : 25              |
| Draft cards, 1941   | 9 : 26              |
| Employee list, 1941   | 9 : 27              |
| Employee timesheets, 1959-1962  | 9 : 28              |
| Employees drafted, undated  | 9 : 29              |
| Indemnity payments, 1933-1934   | 9 : 30              |
| Medical reports, 1939-1942  | 9 : 31              |
| Medical work release, 1941 [RESTRICED]                                    | 9 : 32              |
| Mine Workers Protective League  | 9 : 33-34           |
| Constitution and bylaws, 1941   | 9 : 33              |
| Dues booklet, 1928-1932   | 9 : 34              |
| Minimum wage scales, 1948 and 1952-1954                                   | 9 : 35-36           |
| Pay, 1941-1942  | 9 : 37              |

| <u>Folder Title</u>                              | <u>Box : Folder</u> |
|--|---------------------|
| Recommendations, 1942                            | 9 : 38              |
| Time sheets from Browns Valley Mine, 1942        | 9 : 39              |
| United Steel Workers of America                  | 9 : 40-41           |
| Constitution of international union, 1952        | 9 : 40              |
| Workmen's compensation law, 1952                 | 9 : 41              |
| W-2 forms, 1955-1957 [RESTRICATED]               | 9 : 42-10 : 2       |
| W-4 forms, 1943-1944 and 1946-1959 [RESTRICATED] | 10 : 3-4            |

### Subseries 2.4. Legal Records, 1936-1975 and undated. 1.5 cubic ft.

#### Subseries Scope and Content Summary

This subseries contains court case records and property holdings material. The bulk of the court case material pertains to Empire Star Mines Company, Ltd., vs. Cooley Butler, et. al., during the 1940s.

This subseries is arranged alphabetically by subject.

| <u>Folder Title</u>  | <u>Box : Folder</u> |
|--|---------------------|
| Court cases  | 10 : 5 - 11 : 6     |
| <i>Alameda Mining Company vs. Success Mining Company</i> , undated                               | 10 : 5              |
| <i>Amaral, Frank V., and Gertrude L. Amaral vs. E. W. Cross et. al.</i> (Murchie Property), 1968 | 10 : 6              |
| <i>Empire Star Mines Company, Ltd., vs. California Employment Commission</i> , 1941              | 10 : 7              |
| <i>Empire Star Mines Company, Ltd., vs. Cooley Butler, et. al.</i>                               | 10 : 8 - 11 : 4     |
| Appellant's Opening Brief, vol. 1, 1942  | 10 : 8              |
| Brief for Respondent, vol. 1, 1942   | 10 : 9              |
| Coordinates of mines and properties owned by Cooley Butler, undated                              | 10 : 10             |
| Defendant's Answering Brief, 1940  | 10 : 11             |
| Petition of Appellant's for a Hearing of the Supreme Court, 1944                                 | 10 : 12             |
| Reporter's Transcript of Testimony, 12/4/1940  | 10 : 13             |
| Reporter's Transcript of Testimony, 12/5/1940  | 10 : 14             |
| Reporter's Transcript of Testimony, 12/9/1940  | 10 : 15             |
| Reporter's Transcript of Testimony, 12/11/1940   | 10 : 16             |
| Reporter's Transcript of Testimony, 12/12/1940   | 10 : 17             |
| Reporter's Transcript of Testimony, 12/18/1940   | 10 : 18             |
| Supplement to Appellant's Opening Brief, vol. 2, 1942  | 11 : 1              |
| Supplement to Appellant's Opening Brief, vol. 3, 1942  | 11 : 2              |
| Supplement to Brief of Respondent, vol. 2, 1942  | 11 : 3              |
| Transcript draft, undated  | 11 : 4              |
| <i>Empire Star Mines Company vs. Grass Valley, etc. Mines, et. al.</i> , undated                 | 11 : 5              |
| <i>Stanislaus Water Company vs. Bachman</i> , undated  | 11 : 6              |
| Property holding descriptions, undated   | 11 : 7              |
| Property title action, 1936  | 11 : 8              |

**Folder Title**

*State Law on Mineral Extraction Leases on State Lands, 1975*  
Subsurface property rights, undated

**Box : Folder**

11 : 9  
11 : 10

**Subseries 2.5. Mining Records, 1929-1954. 25 cubic ft.****Subseries Scope and Content Summary**

This small subseries contains reports and ledgers documenting mining activities at various Empire Star Mines Company, Ltd., mining operations.

This subseries is arranged alphabetically by subject.

**Folder Title**

Airleg machines monthly footage record, 1955-1956  
Assay record, 1931-1936  
Central hoist head gear, 1914-1957  
Empire stope tonnage, 1938-1944  
Mancha's electric mule, 1949-1955  
Mill Sampler, 1939-1945  
Ore and waste hoisted ledger, 1929-1934  
Ore reserves from New Brunswick unit and Idaho unit, 1951-1952  
Rope inspection reports, 1951-1952 and 1954

**Box : Folder**

11: 11  
11 : 12  
11 : 13  
11 : 14  
11 : 15  
11 : 16  
11 : 17  
11 : 18  
11 : 19

**Series 3. Other Mines and Mining Company Records, 1873-1984 and undated. 7.25 cubic ft.****Series Scope and Content Summary**

This series contains records from mines and mining companies other than Empire and Empire Star Mines Co., Ltd. Many of the mines and mining companies represented in this series were owned or operated by Empire Star Mines Company, Ltd., or Newmont Mining Corporation at some point during their operation.

In some cases, the parent company of a mine (i.e., North Star Mining Company) may hold records of individual mines (i.e., Champion Mine) that are listed as separate subseries below. For example, Champion Mine records may be found in both Subseries 3.4, Champion Mine, and in Subseries 3.19, North Star Mining Company/North Star Mine.

This series is arranged into twenty-five subseries:

- Subseries 3.1. Banner and Harmony Mines, undated. .125 cubic ft.
- Subseries 3.2. Browns Valley Mine, 1938-1963 and undated. .125 cubic ft.
- Subseries 3.3. Bullion Mine, 1935. .125 cubic ft.
- Subseries 3.4. Champion Mine, 1891-1920 and undated. .25 cubic ft.
- Subseries 3.5. Forest Mines, 1912-1967 and undated. .125 cubic ft.
- Subseries 3.6. Franco-Nevada Mining Corp., Inc., 1984. .125 cubic ft.
- Subseries 3.7. Gaston Ridge Mine, 1893-1921 and undated. .5 cubic ft.
- Subseries 3.8. Golden Center Mine, 1903-1952 and undated. .5 cubic ft.
- Subseries 3.9. Golden Dream Mine, undated. .25 cubic ft.
- Subseries 3.10. Gray Rock Mining Company, 1938-1939. .125 cubic ft.
- Subseries 3.11. Idaho-Maryland Mines Corp., 1952. .125 cubic ft.
- Subseries 3.12. Idarado Mining Company, 1939-1940. .125 cubic ft.
- Subseries 3.13. Lava Cap Gold Mine, 1936-1980 and undated. .5 cubic ft.
- Subseries 3.14. Massachusetts Hill Mining Company, 1888-1894 and undated.  
.125 cubic ft.
- Subseries 3.15. Middlefork Gold Mining Company, 1931-1942. .25 cubic ft.
- Subseries 3.16. Murchie Gold Mine, 1927-1937 and undated. .25 cubic ft.
- Subseries 3.17. Newmont Mining Corporation, 1925-1984 and undated. .25 cubic ft.
- Subseries 3.18. New Verde Mines Company, 1958-1965. .125 cubic ft.
- Subseries 3.19. North Star Mining Company/North Star Mine, 1887-1951 and undated.  
2 cubic ft.
- Subseries 3.20. Pennsylvania Mine, 1913-1940. .125 cubic ft.
- Subseries 3.21. Plumbago Gold Mine Company, 1922-1925. .125 cubic ft.
- Subseries 3.22. Twin River Consolidated Mining Company, 1873-1912. .5 cubic ft.
- Subseries 3.23. Union Hill Mines, 1915-1916. .125 cubic ft.
- Subseries 3.24. Yuba Drift and Mining Company, 1903-1905 and undated. .125 cubic ft.
- Subseries 3.25. Zeibright Mine, 1920-1956 and undated. .25 cubic ft.

**Subseries 3.1. Banner and Harmony Mines, undated. .125 cubic ft.****Subseries Scope and Content Summary**

This small subseries contains one undated map of the Banner and Harmony Mines located near Nevada City, California. The Banner shaft was located in 1860 and at some point both mines were included in the Murchie Extension Gold Mining Company. By the 1980s the mines were owned by Lava Cap Resources, Ltd.

Subseries 4.5, the personal papers of Robert H. Svendsen, also includes diamond drilling reports from Banner mine from the 1970s and an undated geologic report.

**Folder Title**

Map, undated

**Box : Folder**

11 : 20

**Subseries 3.2. Browns Valley Mine, 1938-1963 and undated. .125 cubic ft.****Subseries Scope and Content Summary**

This subseries contains equipment records from the Browns Valley mine located northeast of Marysville, California. The mine was discovered by a settler named Brown in 1850, and by the 1930s the mine was operated by the Empire Star Mines Co., Ltd.

Subseries 2.1, Empire Star Mines Co. Ltd. accounting records, includes a file on Browns Valley power distribution from 1951; Subseries 2.3, Empire Star Mines Co. Ltd., employee records, includes Browns Valley time sheets from 1942.

This subseries is arranged alphabetically by subject.

**Folder Title**

Ball mill, 1938-1961 and undated

Battery locomotive, undated

Compressor, 1962-1963 and undated

Power supply, 1962 and undated

Pump, 1962

Winze hoist, undated

**Box : Folder**

11 : 21

11 : 22

11 : 23

11 : 24

11 : 25

11 : 26

**Subseries 3.3. Bullion Mine, 1935. .125 cubic ft.****Subseries Scope and Content Summary**

This small subseries contains reports and maps from the Bullion mine located in Placer County, California. At some point during its operation, the mine was owned by the Empire Star Mines Company Ltd.

**Folder Title**

Reports and maps, 1935

**Box : Folder**

11 : 27

**Subseries 3.4. Champion Mine, 1891-1920 and undated. .25 cubic ft.****Subseries Scope and Content Summary**

This subseries contains administrative, accounting, and employee records of Champion mine. The mine is located near Nevada City and was in full operation by 1898. In 1911, North Star Mines Company bought out Champion mine and took over operations. After 1929 and Newmont Mining Corporation's purchase of North Star Mines Company, Champion mine was operated by Empire Star Mines Company, Ltd.

Subseries 3.19, North Star Mine and North Star Mining Company, includes Champion Mine accident reports from 1912-1913; account statements from 1921-1927; a bullion and sulphurets ledger from 1912-1927; inventories from 1920; royalty records from 1926; and salvaging statements dating 1920-1921.

This subseries is arranged alphabetically by subject.

**Folder Title**

Accident reports, 1919-1920  
Correspondence, 1917-1920 and undated  
Cost statistics, 1919  
Daily assay record, 1920  
Delivery receipts, 1917-1920  
Development report by Fred Searls, Jr., 1919  
Employment applications, 1917-1920  
Employee records, 1917-1920 and undated  
Equipment records, 1919 and undated  
Industrial Accident Commission inspections, 1918-1919  
Meter reading records, 1913-1914  
Monthly quicksilver report, 1919  
Ore record, 1891 and 1912-1920

**Box : Folder**

11 : 28  
11 : 29  
11 : 30  
11 : 31  
11 : 32  
12 : 1  
12 : 2  
12 : 3  
12 : 4  
12 : 5  
12 : 6  
12 : 7  
12 : 8

**Subseries 3.5. Forest Mine, 1912-1967 and undated. .125 cubic ft.****Subseries Scope and Content Summary**

This subseries contains equipment records for Forest Mine. Newmont Mining Corporation may have owned the mine during the late 1950s-1960s since a correspondent in these subseries is Phil Keast.

This subseries is arranged alphabetically by subject.

| <u>Folder Title</u>                     | <u>Box : Folder</u> |
|---|---------------------|
| Equipment, 1912, 1962-1964, and undated | 12 : 9-11           |
| Wiring, 1957-1967 and undated           | 12 : 12             |

### **Subseries 3.6. Franco-Nevada Mining Corp., Inc., 1984. .125 cubic ft.**

#### **Subseries Scope and Content Summary**

This small subseries contains records relating to Franco-Nevada Mining Corp., Inc., acquiring the Lava Cap gold and silver mine located near Grass Valley, California, in 1984.

| <u>Folder Title</u>     | <u>Box : Folder</u> |
|-------------------------|---------------------|
| Meeting documents, 1984 | 12 : 13             |

### **Subseries 3.7. Gaston Ridge Mine, 1893-1921 and undated. .5 cubic ft.**

#### **Subseries Scope and Content Summary**

This subseries contains accounting and mining records from the Gaston Ridge Mine (or California Mine). Located approximately 19 miles north of Nevada City, in 1898 this was the largest mine in California. George W. Starr held an interest in Gaston Ridge at some point.

This subseries is arranged alphabetically by subject.

| <u>Folder Title</u>   | <u>Box : Folder</u> |
|---|---------------------|
| Boarding house statement, 1906                                  | 12 : 14             |
| Bullion returns, 1903-1906                                      | 12 : 15             |
| Clean-up reports, 1903-1906                                     | 12 : 16             |
| Correspondence, 1893 and 1919                                   | 12 : 17             |
| Drain tunnel bids, 1905   | 12 : 18             |
| Drain record, 1909  | 12 : 19             |
| General monthly cost sheets, 1905-1907                          | 12 : 20             |
| <i>Globe Inspection Company Weekly Business Bulletin</i> , 1919 | 12 : 21             |
| Hoover Republican Club, undated                                 | 12 : 22             |
| Liabilities statements, 1903-1906                               | 12 : 23             |
| <i>Mining Association Bulletin</i> , 1921                       | 12 : 24             |
| Operating expense statements, 1903-1904                         | 12 : 25             |
| Receipts and disbursements, 1903-1904                           | 12 : 26             |
| Reserve fund statement, 1904                                    | 12 : 27             |
| Statement of condition of Nevada County Bank, 1905              | 12 : 28             |
| Superintendent's 62nd Statement, 1906                           | 12 : 29             |
| Superintendent's weekly reports, 1903-1906                      | 12 : 30             |

**Subseries 3.8. Golden Center Mine, 1903-1952 and undated. .5 cubic ft.****Subseries Scope and Content Summary**

This subseries contains accounting, administrative, employee, and mining records of the Golden Center Mine. The mine's head frame was located within the town of Grass Valley and was first worked in the early 1850s. The property was acquired in 1912 by the Golden Center of Grass Valley Mining Co. and in 1931 by Cooley Butler of Los Angeles. Veins include Dromedary, Garage, Church Hill, and Sleep.

Subseries 2.4, Empire Star Mines Company, Ltd. legal records, includes records from the Empire Star Mines Company, Ltd. vs. Cooley Butler court case during 1940-1944.

This subseries is arranged alphabetically by subject.

| <u>Folder Title</u>   | <u>Box : Folder</u> |
|---|---------------------|
| <i>12 Fundamental Rules for Safety</i> , 1938   | 12 : 31             |
| Accounting ledger, 1940-1942  | 12 : 32             |
| Assay reports, 1932-1937  | 12 : 33-38          |
| Correspondence, 1916-1952   | 13 : 1              |
| Custom concentrate settlement, 1940   | 13 : 2              |
| "Discharge of Deer Creek, Nevada City, 1910-1924"   | 13 : 3              |
| Employee fingerprints, undated  | 13 : 4              |
| Employee records, 1933-1935   | 13 : 5-6            |
| General expense ledger, 1915-1918   | 13 : 7              |
| Insurance policies, 1940-1942   | 13 : 8              |
| Loader instructions, undated  | 13 : 9              |
| Minerals notebook, undated  | 13 : 10             |
| National Association of Steam and Hot Water Fitters and Helpers of America constitution, 1903 | 13 : 11             |
| Order books, 1931-1933  | 13 : 12-13          |
| Receipts and invoices, 1935-1941  | 13 : 14             |
| "Report of the Ore Dressing Laboratory," by the American Cyanamide Company, 1941              | 13 : 15             |
| Truck manifests, 1940   | 13 : 16             |
| Water rights, 1908  | 13 : 17             |
| W. C. Jones Memorial Hospital receipts, 1939  | 13 : 18             |

**Subseries 3.9. Golden Dream Mine, undated. .25 cubic ft.****Subseries Scope and Content Summary**

This small subseries contains one undated document from the Golden Dream Mine.

| <u>Folder Title</u>          | <u>Box : Folder</u> |
|------------------------------|---------------------|
| Equipment cost list, undated | 13 : 19             |

**Subseries 3.10. Gray Rock Mining Company, 1938-1939. .125 cubic ft.****Subseries Scope and Content Summary**

This small subseries contains an accounting ledger from the Gray Rock Mining Company.

**Folder Title**

Accounting ledger, 1938-1939

**Box : Folder**

13 : 20

**Subseries 3.11. Idaho-Maryland Mines Corp., 1952. .125 cubic ft.****Subseries Scope and Content Summary**

This subseries contains a brief history and property map of the Idaho-Maryland Mines Corp. Incorporated in 1919, the company's properties included the Idaho-Maryland, Eureka, South Idaho, Gold Point, and Union Hill mines. The company's gold mining operations were suspended in 1954.

One of the properties, the Idaho-Maryland Mine, was the second most productive property in the Grass Valley area and was the third largest gold mine in California. The mine was operated by Newmont Mining Corporation from 1934-1943.

**Folder Title**

"Historic Mines," by John A. Thompson (excerpt), pp. 52-55, undated

Property map, 1952

**Box : Folder**

13 : 21

13 : 22

**Subseries 3.12. Idarado Mining Company, 1939-1940. .125 cubic ft.****Subseries Scope and Content Summary**

This small subseries contains accounting records of the Idarado Mining Company. Located in Colorado, it was owned by Newmont Mining Corporation.

**Folder Title**

Capital accounts, subsidiary ledger, 1939-1940

**Box : Folder**

13 : 23

**Subseries 3.13. Lava Cap Gold Mining Corp., 1936-1980 and undated. .5 cubic ft.****Subseries Scope and Content Summary**

This subseries contains administrative and mining records of the Lava Cap Gold Mining Corp. Located in the Grass Valley area, property consisted of two principal producers, the Central and the Banner shafts. The Company commenced operations in 1934 and operated continuously until 1943 when order L-208 was issued.

Subseries 4.5, personal papers of Robert H. Svendsen, also includes an undated geologic report for Banner shaft.

This subseries is arranged alphabetically by subject.

| <u>Folder Title</u>                          | <u>Box : Folder</u> |
|--|---------------------|
| Assay reports, 1940-1941                     | 13 : 24-27          |
| Daily reports, 1940-1941                     | 13 : 28-33          |
| Diamond drill records, 1940-1941 and undated | 14 : 1              |
| Map of holdings, 1973                        | 14 : 2              |
| Quitclaim deed, 1952                         | 14 : 3              |
| "Report on Lava Cap Resources, Ltd.," 1983   | 14 : 4              |
| Reports, 1936-1980                           | 14 : 5-6            |
| Shaft diagrams, undated                      | 14 : 7              |
| Survey computations, undated                 | 14 : 8              |

### **Subseries 3.14. Massachusetts Hill Mining Company, 1888-1894 and undated. .125 cubic ft.**

#### **Subseries Scope and Content Summary**

This subseries contains accounting records of the Massachusetts Hill Mining Company. Located near Grass Valley, Massachusetts Hill mine was discovered in 1850 and worked until 1966. The mine was acquired by North Star in 1894 and closed in 1901. After 1929 and Newmont Mining Corporation's purchase of North Star Mines Company, Massachusetts Hill mine was operated by Empire Star Mines Company, Ltd.

This subseries is arranged alphabetically by subject.

| <u>Folder Title</u>   | <u>Box : Folder</u> |
|---|---------------------|
| Articles of incorporation and annual meeting minutes, 1888-1894 | 14 : 9              |
| Checks (blank), undated   | 14 : 10             |
| Journal (blank), undated  | 14 : 11             |
| Ledger (blank), undated   | 14 : 12             |
| Stock journal, 1888   | 14 : 13             |

### **Subseries 3.15. Middlefork Gold Mining Company, 1931-1942. .25 cubic ft.**

#### **Subseries Scope and Content Summary**

This subseries contains accounting records from the Middlefork Gold Mining Company and Sliger Mine. Sliger Mine was located in Auburn, California, and liquidated in 1942.

This subseries is arranged alphabetically by subject.

| <u>Folder Title</u>                        | <u>Box : Folder</u> |
|--|---------------------|
| Accounting ledgers, 1933-1942              | 14 : 14             |
| Bullion and concentrate returns, 1932-1933 | 14 : 15             |
| Cash books, 1936-1942                      | 14 : 16             |
| Cash receipts and disbursements, 1939-1942 | 14 : 17             |
| Payroll, 1931 and 1937-1938                | 14 : 18             |
| Payroll book, 1933 and 1942                | 14 : 19             |
| Sliger Mine                                | 14 : 20-21          |
| Cash book, 1933-1936                       | 14 : 20             |
| Correspondence, 1934-1943                  | 14 : 21             |

### **Subseries 3.16. Murchie Gold Mine, 1927-1937 and undated. .25 cubic ft.**

#### **Subseries Scope and Content Summary**

This subseries contains accounting and administrative records of Murchie Gold Mine. Located near Nevada City, California, the mine was discovered in 1878, but until the advent of the flotation process in the 1930s was not economical to develop. Empire Star Mines Co. Ltd. operated the mine as of January 1, 1932. Gold veins include Alice Belle, Atlanta, Big Blue, Coe, Delaware, Fillmore, Hallelujah, Independence, Indian Hill, Jumbo, Lone Star, and Organ.

Subseries 2.4, Empire Star Mines Co. Ltd, legal records, includes a case file on Frank V. Amaral and Gertrude L. Amaral vs. E. W. Cross, et. al., which involves the Murchie property; and subseries 4.5, personal papers of Robert H. Svendsen, includes diamond drilling reports of the mine from the 1970s.

This subseries is arranged alphabetically by subject.

| <u>Folder Title</u>   | <u>Box : Folder</u> |
|---|---------------------|
| Correspondence, 1937  | 14 : 22             |
| Data sheets, 1937   | 14 : 23             |
| Financial statements, 1937-1938                                       | 14 : 24             |
| Mineral rights, undated   | 14 : 25             |
| Monthly reports, 1937   | 14 : 26             |
| Ore truck records, undated  | 14 : 27             |
| "Preliminary Report on the Murchie Gold Mine," by J. D. Whitney, 1927 | 14 : 28             |
| Receipts, 1935  | 14 : 29             |

### **Subseries 3.17. Newmont Mining Corporation, 1925-1984 and undated. .25 cubic ft.**

#### **Subseries Scope and Content Summary**

This subseries contains accounting and administrative records of the Newmont Mining Corporation. The company was incorporated in the State of Delaware on May 2, 1921. Fred Searls, Jr., was the Vice President in charge of mining explorations in the United States, Canada,

South Africa, and South America. Of the mines and mining companies represented in this collection, the company at one time owned the following: Empire, Empire Star Mines Company, Ltd., North Star, North Star Mining Company, Browns Valley, Bullion, Champion, Idaho-Maryland Mines Corp., Idarado Mining Company, Massachusetts Hill, Murchie, New Verde Mines Company, Pennsylvania, Union Hill, and Zeibright.

This subseries is arranged alphabetically by subject.

| <b><u>Folder Title</u></b>   | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| Annual meeting notice, 1960  | 14 : 30                    |
| Annual reports   | 14 : 31-33                 |
| 1925-1957  | 14 : 31-32                 |
| Rough draft, 1976  | 14 : 33                    |
| Corporate and stock information, 1939 and 1956   | 14 : 34                    |
| Correspondence, 1962-1984 and undated  | 14 : 35                    |
| Gray Eagle Copper Company  | 14 : 36-37                 |
| Development and construction cost, 1941-1943   | 14 : 36                    |
| Financial records, 1942 and 1945   | 14 : 37                    |
| "Petrographic Examination of Rock Types for the Empire 4200' East Cross Cut, Grass Valley, California," 1972 | 14 : 38                    |
| Property survey data, 1960   | 14 : 39                    |
| Stock prospectus, 1939   | 14 : 40                    |

### **Subseries 3.18. New Verde Mines Company, 1958-1965. .125 cubic ft.**

#### **Subseries Scope and Content Summary**

This subseries contains accounting records of the New Verde Mines Company. Acquired by Newmont Mining Corporation in 1957, the property and physical assets of Empire Star Mines Company, Ltd., were either sold or transferred to New Verde Mines Company that same year.

Subseries 2.2, Empire Star Mines Company, Ltd., administrative records, also contains liquidation records from 1957-1959.

This subseries is arranged alphabetically by subject.

| <b><u>Folder Title</u></b>            | <b><u>Box : Folder</u></b> |
|---------------------------------------|----------------------------|
| Equipment and sales information, 1958 | 14 : 41                    |
| Invoices, 1959-1965                   | 14 : 42                    |
| Tree farm certificate, 1958           | 14 : 43                    |

**Subseries 3.19. North Star Mine and North Star Mining Company, 1887-1951 and undated.  
2 cubic ft.**

**Subseries Scope and Content Summary**

This subseries contains accounting, administrative, employee, and mining records of the North Star Mine and North Star Mining Company. North Star mine was first discovered by two Frenchmen in 1851 and ultimately became one of the three largest producers of gold in Grass Valley, California. In 1867 the North Star Gold Mining Co. was incorporated and in 1875, along with various nearby claims the North Star claim was patented. That same year, the mine closed. The mine was reopened by William Bourn, Jr., in 1884 who then sold it to J. D. Hague and associates in 1887. In 1887 the North Star Mining Co. was incorporated and took over the property of the North Star Gold Mining Co. In 1899 the North Star Mines Co. was incorporated to take over the North Star Mining Co. and to furnish the funds necessary for expansion. The mine's primary veins include A (a.k.a., Alioth), New York Hill, Y, and Z.

As of May 1, 1929, Empire Star Mines Co., Ltd., owned and operated North Star Mines Company. Records in this subseries also include those of Champion Mine, which was purchased by North Star Mines Company in 1911.

Subseries 1.4, Empire Mine legal records, includes records from the 1908-1914 suit of *North Star Mine vs. Empire Mine* for trespass; Subseries 4.5, personal papers of Robert H. Svendsen, includes drawings from the 1970s of North Star Mine; and Series 5, photographic material, contains an undated photograph of the North Star assay office.

This subseries is arranged alphabetically by subject.

| <u>Folder Title</u>   | <u>Box : Folder</u> |
|---|---------------------|
| Accident reports, 1912-1913, 1932, 1941-1943, and 1951      | 15 : 1-5            |
| Accounting records, undated                                 | 15 : 6              |
| Accounts list, undated                                      | 15 : 7              |
| Alioth and New York Hill proposed development diagram, 1921 | 15 : 8              |
| Amalgam and bullion records, 1902-1913 and 1917-1929        | 15 : 9-10           |
| Analyzed statement of disbursements, 1897-1899              | 15 : 11             |
| Assay map list, undated                                     | 15 : 12             |
| Bullion and sulphurets ledger, 1902-1916                    | 15 : 13             |
| Champion Mine   | 15 : 14-18          |
| Account statements of credit, 1921-1927                     | 15 : 14             |
| Bullion and sulphurets ledger, 1912-1927                    | 15 : 15             |
| Inventories by Frank Dangerfield, 1920                      | 15 : 16             |
| Royalty, 1926   | 15 : 17             |
| Salvaging statements, 1920-1921                             | 15 : 18             |
| Check books, undated  | 15 : 19             |
| Checks, 1911-1912   | 15 : 20-22          |

| <b><u>Folder Title</u></b>   | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| Correspondence   | 15 : 23-27                 |
| 1941   | 15 : 23                    |
| Logs, 1900-1904 and 1907-1909  | 15 : 24-27                 |
| Development cost estimate, undated   | 16 : 1                     |
| Development record, 1935   | 16 : 2                     |
| Diamond drill logs, 1932   | 16 : 3                     |
| Drill shift notes, 1939 and undated  | 16 : 4                     |
| Earnings statements, R. D. Morris lease, 1950-1951                                     | 16 : 5                     |
| Employee discipline books, 1888-1891 and 1904  | 16 : 6                     |
| Employee recommendations, 1906-1907 and 1925-1939                                      | 16 : 7-8                   |
| Employment applications, 1927-1929 and undated   | 16 : 9                     |
| Equipment records, 1919-1925   | 16 : 10-11                 |
| First aid elimination contest standings, 1915  | 16 : 12                    |
| "Holmes Safety Chapter Notes," United States Bureau of Mines, 1930-1931                | 16 : 13                    |
| Industrial Accident Commission Indemnities, 1929                                       | 16 : 14                    |
| Instructions - Universal grinding machine, undated                                     | 16 : 15                    |
| Insurance policy - "Workmen's Compensation and Employer's Liability Policy," 1926-1927 | 16 : 16                    |
| Land patent, 1922-1942   | 16 : 17                    |
| Lease agreement, R. D. Morris, 1950  | 16 : 18                    |
| Letter book, 1909-1913   | 16 : 19                    |
| Map, undated   | 16 : 20                    |
| Meter records, 1913-1915   | 16 : 21-23                 |
| Mill records   | 16 : 24-25                 |
| 1902-1905  | 16 : 24                    |
| Excerpts, 1924-1926  | 16 : 25                    |
| Mining report, 1887-1895   | 16 : 26                    |
| Motors in use list, 1925   | 16 : 27                    |
| Ore and waste hoisted, 1887-1891, 1901-1906 and 1917-1929                              | 16 : 28-31                 |
| Ore and waste, powder, fuse, and cap ledger, 1904 and 1908                             | 16 : 32                    |
| Ore and waste produced, 1891-1897  | 16 : 33                    |
| Plan for curtailment of operations, 1942   | 16 : 34                    |
| Plant safety meeting minutes, 1941-1944  | 16 : 35                    |
| Receipts and invoices, 1906-1909   | 16 : 36                    |
| Red Cross account, 1918-1919   | 16 : 37                    |
| Replacement valuation, undated   | 16 : 38                    |
| Safety inspection, 1951  | 16 : 39                    |
| Safety permit, 1950  | 16 : 40                    |
| Sample log, 1915   | 16 : 41                    |
| Shaft record, material hoisted at Granite Hill shaft, 1900                             | 16 : 42                    |
| Statement of amalgam product, 1929   | 16 : 43                    |
| Statements of home purchase account, 1926-1927   | 16 : 44                    |
| Statements of rainbow account, 1921-1925   | 16 : 45                    |
| Statements of tributor, James Field and Company, 1926-1927                             | 16 : 46                    |
| Summary of costs, 1911-1920  | 16 : 47                    |

| <u>Folder Title</u>  | <u>Box : Folder</u> |
|--|---------------------|
| Summary of junk valuation, undated   | 16 : 48             |
| Supplies issued by Mass. Hill storehouse to North Star Mines, book 1, 1908 | 16 : 49             |
| Supply ledger, 1908  | 16 : 50             |
| Time books, 1894-1896 and 1902-1903  | 16 : 51-52          |
| Transformers, undated  | 16 : 53             |
| Underground work record, 1903-1904   | 16 : 54             |
| Water and power rights, 1910   | 16 : 55             |
| Water valves, undated  | 16 : 56             |
| X and Y vein diagrams, 1929  | 16 : 57             |

### **Subseries 3.20. Pennsylvania Mine, 1913-1940. .125 cubic ft.**

#### **Subseries Scope and Content Summary**

This subseries contains mining records of Pennsylvania Mine. Located near Grass Valley, the mine was in active operation by 1867. Empire Mine gained control of Pennsylvania Mine in 1912 and in 1924 the mines were connected underground. The mine was operated by Empire Star Mines Co., Ltd., after May 1, 1929.

Series 5, photographic material, contains photographs of Pennsylvania Mine equipment.

This subseries is arranged alphabetically by subject.

| <u>Folder Title</u>                | <u>Box : Folder</u> |
|------------------------------------|---------------------|
| Assay records                      | 17 : 1-2            |
| Vol. 1, 1913-1915                  | 17 : 1              |
| Vol. 2, 1914-1917 and 1925-1927    | 17 : 2              |
| Materials used reports, 1916       | 17 : 3              |
| Mine car weight factors, 1943-1945 | 17 : 4              |
| Shaft diagram, 1940                | 17 : 5              |

### **Subseries 3.21. Plumbago Gold Mine Company, 1922-1925. .125 cubic ft.**

#### **Subseries Scope and Content Summary**

This subseries contains administrative records of the Plumbago Gold Mine Company, which was incorporated in 1922 in Stockton, California.

This subseries is arranged alphabetically by subject.

| <u>Folder Title</u> | <u>Box : Folder</u> |
|---------------------|---------------------|
| Bylaws, 1922        | 17 : 6              |
| Minutes, 1922-1925  | 17 : 7              |

**Subseries 3.22. Twin River Consolidated Mining Company, 1873-1912. .5 cubic ft.****Subseries Scope and Content Summary**

This subseries contains accounting and administrative records of the Twin River Consolidated Mining Company, which was incorporated in San Francisco in 1873. During 1873-1875, and possibly beyond, James D. Hague was the president of the company.

This subseries is arranged alphabetically by subject.

| <b><u>Folder Title</u></b>          | <b><u>Box : Folder</u></b> |
|-------------------------------------|----------------------------|
| Accounting ledger, 1898-1907        | 17 : 8                     |
| Articles of incorporation, 1873     | 17 : 9                     |
| Auction records, 1875               | 17 : 10                    |
| Board of Trustees minutes, 1873     | 17 : 11                    |
| Cash journal, 1873-1874             | 17 : 12                    |
| Checks, 1873-1874                   | 17 : 13                    |
| Correspondence log, 1874-1875       | 17 : 14                    |
| Equipment and ore ledger, 1898-1912 | 17 : 15                    |
| Proxy records, 1873-1874            | 17 : 16                    |
| Stock record, 1873-1874             | 17 : 17                    |
| Stock ledger, 1873-1875             | 17 : 18                    |
| Stock assessment ledger, 1874-1875  | 17 : 19                    |
| Stock transfer journal, 1873-1874   | 17 : 20                    |

**Subseries 3.23. Union Hill Mines, 1915-1916. .125 cubic ft.****Subseries Scope and Content Summary**

This small subseries contains one ledger of the Union Hill mine. The mine was worked as early as 1854. In the 1940s the mine was controlled by the Idaho-Maryland Mines Co. and at some point was owned by Empire Star Mines Co., Ltd.

| <b><u>Folder Title</u></b> | <b><u>Box : Folder</u></b> |
|----------------------------|----------------------------|
| Ledger, 1915-1916          | 17 : 21                    |

**Subseries 3.24. Yuba Drift Mining Company, 1903-1905 and undated. .125 cubic ft.****Subseries Scope and Content Summary**

This subseries contains accounting and mining records of the Yuba Drift Mining Company.

This subseries is arranged alphabetically by subject.

| <b><u>Folder Title</u></b>           | <b><u>Box : Folder</u></b> |
|--------------------------------------|----------------------------|
| Carloads of gravel report, 1903-1904 | 17 : 22                    |

| <u>Folder Title</u>                             | <u>Box : Folder</u> |
|---|---------------------|
| Clean-up report, 1904-1905                      | 17 : 23             |
| Financial statement, 1903-1904                  | 17 : 24             |
| Property and vertical section diagrams, undated | 17 : 25             |
| Timber tallies, 1904                            | 17 : 26             |

### **Subseries 3.25. Zeibright Mine, 1920-1956 and undated. .25 cubic ft.**

#### **Subseries Scope and Content Summary**

This subseries contains equipment records of the Zeibright Mine located at Bear Valley, east of Grass Valley, California. The mine was owned and operated by Empire Star Mines Co., Ltd., by 1934 until the 1950s.

This subseries is arranged alphabetically by subject.

| <u>Folder Title</u>                                   | <u>Box : Folder</u> |
|---|---------------------|
| Battery charger information, 1933                     | 17 : 27             |
| Condensation pump instructions, 1939                  | 17 : 28             |
| Cranide plant equipment (the Door Company), 1934-1935 | 17 : 29             |
| Crushers, 1955 and undated                            | 17 : 30             |
| Drum switch diagram, 1933                             | 17 : 31             |
| Financial statements, 1939                            | 17 : 32             |
| Generator set diagram, undated                        | 17 : 33             |
| Hoists, 1920-1956 and undated                         | 17 : 34             |
| Transformers, 1939                                    | 17 : 35             |

**Series 4. Personal Papers, 1883-1985 and undated. 2.5 cubic ft.****Series Scope and Content Summary**

This series contains the records of individuals who either owned an interest in Nevada County mines or mining companies, or worked at the mines.

The series is organized into 5 subseries:

- 4.1. William Bourn, Jr., 1902-1928. .125 cubic ft.
- 4.2. Phil Keast, 1926-1981 and undated. .5 cubic ft.
- 4.3. Fred W. Nobs, 1923-1955 and undated. .875 cubic ft.
- 4.4. George W. Starr, 1883-1931 and undated. .5 cubic ft.
- 4.5. Robert H. Svendsen, 1925-1985 and undated. .5 cubic ft.

**Subseries 4.1. William Bourn, Jr., 1902-1928. .125 cubic ft.****Subseries Scope and Content Summary**

This small subseries primarily contains correspondence of William Bourn, Jr., and annual reports of the Pacific Union Club and San Francisco Gas and Electric Company.

Cousin of George W. Starr, William Bourn, Jr. was 21 when he took over the Empire Mining Company, reorganized the company, and formed the Original Empire Mill and Mining Company in 1879. After realizing the high profitability of the Empire Mine, Bourn purchased the North Star Mine in 1884. Three years later he sold North Star to James D. Hague and in 1888 he sold controlling interest in the Empire Mine to Hague as well. In subsequent years he occupied his time in various business activities such as serving as the director of the San Francisco Gas and Electric Company and constructing what would later be know as the Christian Brothers Winery in St. Helena. Then in 1896 he repurchased majority interest in Empire Mine. He was also a member (and president in 1907) of the Pacific Union Club.

Bourn sold Empire Mine on May 1, 1929 to Newmont Mining Corporation. He died in 1936 at the age of 79.

This subseries is arranged alphabetically by subject.

| <b><u>Folder Title</u></b>   | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| Correspondence, 1902   | 17 : 36                    |
| Maps of non-option property, 1928                                    | 17 : 37                    |
| Pacific Union Club annual reports, 1904-1910                         | 17 : 38                    |
| San Francisco Gas and Electric Company annual reports, 1902 and 1905 | 17 : 39                    |

**Subseries 4.2. Phil Keast, 1926-1981 and undated. .5 cubic ft.****Subseries Scope and Content Summary**

This subseries includes correspondence, the patent application for the "Keast Drill," equipment records, and field notes from a mine visit. Phil Keast was an electrical engineer and worked at Empire Mine for 40 years. He was the Master Mechanic and in charge of the Empire machine shop. Keast worked at the mine until 1957 when he assisted with its closure.

Subseries 7.2, vendor correspondence, contains correspondence to Phil Keast and Empire Mine regarding the introduction of new products and answers to equipment queries; Series 5, Photographic Material, contains images of Phil Keast at Empire Mine from 1942 and 1988; and Subseries 2.2, Empire Mine administrative records, contains correspondence of Phil Keast, 1949-1950 and undated.

This subseries is arranged alphabetically by subject.

| <b><u>Folder Title</u></b>  | <b><u>Box : Folder</u></b> |
|---|----------------------------|
| American Institute of Electrical Engineers, Sacramento Chapter bylaws, 1950 | 17 : 40                    |
| Bureau of Mines first aid training certificate, 1926                        | 17 : 41                    |
| Correspondence, 1951-1974 and undated                                       | 17 : 42                    |
| Hennessy School burners, pumps, and water heater, 1948-1968 and undated     | 17 : 43                    |
| Invoice, 1981   | 17 : 44                    |
| Lawn mower records, 1960  | 17 : 45                    |
| Mine visit field notes, 1954 and undated                                    | 17 : 46                    |
| Miners Hospital Association membership information, 1958-1966 and undated   | 17 : 47                    |
| Patent application "Keast Drill," 1942                                      | 17 : 48                    |
| Swimming pool repairs, 1964   | 17 : 49                    |
| Trip log, 1958  | 17 : 50                    |

**Subseries 4.3. Fred W. Nobs, 1923-1955 and undated. .875 cubic ft.****Subseries Scope and Content Summary**

This subseries primarily contains calendars of Fred W. Nobs. Fred Nobs worked at Empire Mine for 14 years and took over as manager of the Empire Mine in 1929 when George Starr retired. He retired from Empire Mine in 1954.

Also included in this subseries is correspondence of F. Stanley Nobs, son of Fred W. Nobs.

Subseries 1.2, Empire Mine administrative records, contains correspondence of Fred W. Nobs, 1921-1924; and Subseries 2.2, Empire Star Mines Company, Ltd., administrative records, contains correspondence of Fred W. Nobs, 1931-1942.

This subseries is arranged alphabetically by subject.

| <u>Folder Title</u>  | <u>Box : Folder</u> |
|--|---------------------|
| <i>American Congress Bulletin</i> , 1923                     | 18 : 1              |
| Calendars, 1930, 1934, 1937, 1942, 1946, 1949-1950, and 1955 | 18 : 2-8            |
| Coolidge Republican Club enrollment form (blank), undated    | 18 : 9              |
| Correspondence of F. Stanley Nobs, 1938-1942                 | 18 : 10             |
| Rotary Club event program, 1955                              | 18 : 11             |

#### **Subseries 4.4. George W. Starr, 1883-1931 and undated. .5 cubic ft.**

##### **Subseries Scope and Content Summary**

This subseries primarily contains financial material and correspondence of George W. Starr. Hired as a mucker at Empire Mine at the age of 19, he was employed by his cousin William Bourn, Jr. After six years, in 1887, Starr was appointed superintendent of the Empire Mine and greatly contributed to the success of the mine in subsequent years by improving operations. For example, he introduced compressed air drills in 1890, which increased the rate of development of the mine.

In 1893, Starr traveled to South Africa to manage gold mines. He returned to California in 1898. Upon his return, Empire Mine saw continued success and progress under his management. Starr retired from Empire Mine in 1929. He died in 1940 at the age of 77.

Series 5, photographic material, contains a photograph of George W. Starr's residence at Empire Mine in 1956; and Subseries 1.2, Empire Mine administrative records, contains business correspondence of George W. Starr, 1904-1924 and undated.

This subseries is arranged alphabetically by subject.

| <u>Folder Title</u>   | <u>Box : Folder</u> |
|---|---------------------|
| Bank of California  | 18 : 12-13          |
| Receipts, 1902-1905   | 18 : 12             |
| Statements, 1905-1912                                       | 18 : 13             |
| Cancelled checks, 1898-1912                                 | 18 : 14-19 : 3      |
| California Polo and Pony Racing Association bylaws, 1903    | 19 : 4              |
| Correspondence, 1887-1908                                   | 19 : 5-7            |
| Guardians final account of George W. Starr estate, 1883     | 19 : 8              |
| North Bloomfield lumber orders, 1902-1903                   | 19 : 9              |
| North Bloomfield production statement, undated              | 19 : 10             |
| Property tax receipts, 1902-1906                            | 19 : 11             |
| Rand Club newsletters, Johannesburg, 1903                   | 19 : 12             |
| Receipts and invoices, 1887-1912 and undated                | 19 : 13-14          |
| South African Association of Engineers annual meeting, 1902 | 19 : 15             |
| Stock investment records, 1902-1903 and 1930-1931           | 19 : 16             |

**Subseries 4.5. Robert H. Svendsen, 1925-1985 and undated. .5 cubic ft.****Subseries Scope and Content Summary**

This subseries contains correspondence, diagrams, notes, and reports of Robert H. Svendsen. A geologist, he resided in Nevada City, California, and performed consulting work for Empire Star Mines Company, Ltd., and Newmont Mining Corporation during 1940s-1970s. Project areas include Empire, Banner, and Murchie mines in Nevada County, California; Homestakes Mining Co. in San Francisco, California; Mackay School of Mines in Reno, Nevada; and Yuscaran Mines in Honduras.

Subseries 2.2, Empire Mine administrative records, contains correspondence of Robert H. Svendsen, 1940-1942 and 1977.

This subseries is arranged alphabetically by subject.

| <b><u>Folder Title</u></b>   | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| "Copper Canyon Mine Review of Previous Reports," undated           | 19 : 17                    |
| Correspondence, 1940-1985  | 19 : 18                    |
| Drawings   | 19 : 19-20                 |
| Rowe [shaft] 650 level, 1973                                       | 19 : 19                    |
| North Star and Empire Star, 1970s                                  | 19 : 20                    |
| Diamond Drill reports and drawings, 1973                           | 19 : 21                    |
| "Diamond Drilling Conclusion and Recommendations," ca. 1975        | 19 : 22                    |
| Diamond Drilling reports - Murchie, Banner, and Empire Mine, 1970s | 19 : 23                    |
| Drilling notes, undated  | 19 : 24                    |
| Geological survey, 1940-1972 and undated                           | 19 : 25-26                 |
| "Grass Valley Magnetic Survey," 1972 and 1975                      | 19 : 27                    |
| Horne Mine diamond drilling record, 1925                           | 19 : 28                    |
| "Lava Cap Banner Geologic Report," undated                         | 19 : 29                    |
| Mineral Commodities of California map, undated                     | 19 : 30                    |
| Miscellaneous notes, 1970s   | 19 : 31                    |
| Nevada Silver Producers, Inc., project records, 1968               | 19 : 32                    |
| Notes and reference material, undated                              | 20 : 1                     |
| Perini Corporation reports, 1960                                   | 20 : 2                     |
| Real Estate appraisal class notes, 1965                            | 20 : 3                     |
| "Reynolds Metals"  | 20 : 4-6                   |
| Correspondence, 1957-1958  | 20 : 4                     |
| Reference materials, 1957-1958                                     | 20 : 5                     |
| Resource survey, 1957  | 20 : 6                     |
| "Santa Ana Mine Survey," undated                                   | 20 : 7                     |
| Vein history notes, undated  | 20 : 8                     |

**Series 5. Photographic Material, 1929-1964 and undated.****Series Scope and Content Summary**

This series contains photographic material, primarily photographs unless otherwise noted. Images depict machinery and buildings of multiple mines including Empire, North Star, and Pennsylvania. Images of people include E. Carmen, Phil Keast, and surface workers at Empire Mine.

This series is arranged alphabetically by subject of image.

| <b><u>Folder Title</u></b>                         | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| Alpha and omega historical marker, 1964            | 20 : 9                     |
| Carmen, E., undated                                | 20 : 10                    |
| Empire Mill, Westinghouse back gear drive, undated | 20 : 11                    |
| Empire Mine  | 20 : 12-25                 |
| 1949   | 20 : 12                    |
| Blacksmith shop, 1952                              | 20 : 13                    |
| Booster compressor, 38 Winze, 1942 and undated     | 20 : 14                    |
| Booster compressor, 46 Winze, 1940 and undated     | 20 : 15                    |
| Gates, 1952  | 20 : 16                    |
| Head frame, 1951, 1952, and 1958                   | 20 : 17                    |
| Hoist, 1950-1951 and undated                       | 20 : 18                    |
| Keast, Phil, 1942                                  | 20 : 19                    |
| Keast, Phil, 1988 [Slide]                          | 20 : 20                    |
| Nordberg hoist, 46 winze, 1940 and undated         | 20 : 21                    |
| Pumps, 1955  | 20 : 22                    |
| Pumps, 1600, 2200 and 3400, 1955                   | 20 : 23                    |
| Skip dump, 38 winze, undated                       | 20 : 24                    |
| Surface workers at lunch, 1929                     | 20 : 25                    |
| Gold display, 1949                                 | 20 : 26                    |
| Gold field, Nevada, undated                        | 20 : 27                    |
| Gold ingot production [?], undated                 | 20 : 28                    |
| Grass Valley aerial view, 1946                     | 20 : 29                    |
| Machine [lathe?], undated                          | 20 : 30                    |
| Man on heavy machinery (unidentified), undated     | 20 : 31                    |
| Mine hoist and mill (unidentified), undated        | 20 : 32                    |
| Miner (unidentified), undated                      | 20 : 33                    |
| Mining machinery (unidentified), 1948 and undated  | 20 : 34                    |
| Mountain range (unidentified), undated             | 20 : 35                    |
| North Star assay office, undated                   | 20 : 36                    |
| Osborne Hill, undated                              | 20 : 37                    |
| Pennsylvania Mine                                  | 20 : 38-39                 |
| Compressor plant, 1952                             | 20 : 38                    |
| P.R.E. compressor, 1941                            | 20 : 39                    |
| San Jose Motel, 1956                               | 20 : 40                    |

**Folder Title**

**Box : Folder**

Snake River Canyon and Deep Creek, undated  
Starr, George W., residence at Empire Mine, 1956  
Trip (unidentified), undated

20 : 41  
20 : 42  
20 : 43

**Series 6. Reference Files, 1893-1972. 4.5 cubic ft.****Series Scope and Content Summary**

This series contains publications, notes, and reports on mining operation topics and equipment. Much of the material belonged to Phil Keast and probably served as reference material during his work at Empire Mine.

This series is arranged alphabetically by subject, document title, or publisher.

| <b><u>Folder Title</u></b>  | <b><u>Box : Folder</u></b> |
|---|----------------------------|
| Abrasive wheels, 1956   | 20 : 44                    |
| Alloy steels, 1944 and undated  | 20 : 45                    |
| Aluminum, 1955-1959   | 20 : 46                    |
| Aluminum cable, 1950  | 20 : 47                    |
| American Institute of Electrical Engineering, 1929-1933                                 | 20 : 48                    |
| American Society for Testing Materials, 1945 and 1959                                   | 20 : 49                    |
| <i>Architects' Reference Manual</i> , 1956  | 20 : 50                    |
| Ball bearings, undated  | 20 : 51                    |
| Ball mills, 1938, 1942, 1944, and undated   | 20 : 52                    |
| Batteries, 1959 and undated   | 20 : 53                    |
| Belting   | 20 : 54-56                 |
| Conveyor and elevator, 1953   | 20 : 54                    |
| <i>Conveyor</i> by B.F. Goodrich Company, 1948  | 20 : 55                    |
| Leather, 1942   | 20 : 56                    |
| Biddle, James G., Company, 1948-1957  | 20 : 57                    |
| Boiler plant, 1929  | 20 : 58                    |
| Boxes in flumes, undated  | 20 : 59                    |
| Bureau of Mines   | 20 : 60-63                 |
| <i>Information Circular</i> , 1911-1960   | 20 : 60                    |
| National Mine Rescue Contest, 1915  | 20 : 61                    |
| <i>Reports of Investigations</i> , no. 2453 and 2457, 1923                              | 20 : 62                    |
| Technical papers, 1923, 1928, and 1940  | 20 : 63                    |
| <i>Businessman's Guide to Electronics</i> by Westinghouse Electric Corporation, undated | 20 : 64                    |
| Cables, 1930-1934   | 20 : 65                    |
| California Industrial Accident Commission   | 21 : 1-2                   |
| Reports, 1916-1917 and 1919-1920  | 21 : 1                     |
| Safety publications, 1916-1919  | 21 : 2                     |
| California legislation - safety, 1915-1919  | 21 : 3                     |
| California strike slip faults, undated  | 21 : 4                     |
| Cameron hydraulic data, 1930  | 21 : 5                     |
| Canadian Copco, Ltd., 1949-1950   | 21 : 6                     |
| "Carson Sink Area, Nevada," by F.C. Schrader, 1947                                      | 21 : 7-8                   |
| Centrifugal pumps, undated  | 21 : 9                     |
| Circuit breakers, undated   | 21 : 10                    |

| <b><u>Folder Title</u></b>   | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| Combustion Engineering Corp., 1927-1928  | 21 : 11                    |
| <i>Commutator and Slip Ring Maintenance</i> , 1949                                   | 21 : 12                    |
| Compressors, 1927, 1941, 1945, 1954, and undated                                     | 21 : 13                    |
| Concrete, 1929 and undated   | 21 : 14                    |
| <i>Convenient Tables and Formulae</i> , by Westinghouse, 1953                        | 21 : 15                    |
| Copper and Brass Research Association, 1941-1958                                     | 21 : 16                    |
| Copper metal, 1952-1962  | 21 : 17                    |
| Crusher and grinding mills, 1940-1953  | 21 : 18                    |
| <i>Crushing Practice and Theory</i> , 1953   | 21 : 19                    |
| Dardelet thread and nut connections, 1929  | 21 : 20                    |
| <i>Design Manual for High Strength Steel</i> , 1954                                  | 21 : 21                    |
| Double drum air slusher clutch, 1951   | 21 : 22                    |
| Dow Corning Corp., 1946-1959   | 21 : 23                    |
| <i>Drainage of Water and Oil from Compressed Air</i> , undated                       | 21 : 24                    |
| Drills and drilling practice, 1938, 1945, and 1951                                   | 21 : 25                    |
| Electrical conductors, 1964  | 21 : 26                    |
| Electrical data, 1972  | 21 : 27                    |
| Electrical insulation resistance, 1949   | 21 : 28                    |
| <i>Engineering and Mining Journal</i> , 1936, 1951, and 1957                         | 21 : 29                    |
| <i>Equipment and Supply Index</i> , 1946   | 21 : 30                    |
| Flammable liquids, 1950  | 21 : 31                    |
| Fluids, 1957   | 21 : 32                    |
| Frue Vanner, undated   | 21 : 33                    |
| <i>Fuels Available for Domestic Use as Substitutes for Anthracite Coal</i> , 1923    | 21 : 34                    |
| Gear data, 1950  | 22 : 1                     |
| General Electric, 1928-1957  | 22 : 2                     |
| "Gold Deposits of Slumbering Hills, Nevada," 1938                                    | 22 : 3                     |
| <i>Gold Mill Practices</i> , by the California State Mining Bureau, 1901             | 22 : 4                     |
| "Gold, Silver, Copper, Lead and Zinc in California and Oregon in 1929," 1931         | 22 : 5                     |
| <i>Grinding of Coromant Drill Steels</i> , 1950                                      | 22 : 6                     |
| Ground water supplies, undated   | 22 : 7                     |
| Harco Corp., 1955-1961   | 22 : 8                     |
| Hardinge Company, 1935-1942  | 22 : 9                     |
| Hastings Manufacturing Co., undated  | 22 : 10                    |
| Hoists, 1930-1949 and undated  | 22 : 11                    |
| Hydraulic tools, 1953 and undated  | 22 : 12                    |
| Identifying metals, 1932   | 22 : 13                    |
| <i>Induction Voltage Regulator</i> , by General Electric Company, 1929               | 22 : 14                    |
| Insulators, undated  | 22 : 15                    |
| International Nickel Company, 1947-1960  | 22 : 16                    |
| Ion exchanger, 1960  | 22 : 17                    |
| <i>Irrigation Age</i> , 1893   | 22 : 18                    |
| <i>Kerite Insulated Wires and Cables for Electric Light and Power Service</i> , 1954 | 22 : 19                    |
| Legal briefs - quartz mines, undated   | 22 : 20                    |

| <u>Folder Title</u>   | <u>Box : Folder</u> |
|---|---------------------|
| Loaders, undated  | 22 : 21             |
| Local power demand, 1939  | 22 : 22             |
| Lubrication data, 1923 and undated  | 22 : 23             |
| Magnesium insulation, undated   | 22 : 24             |
| Maps, 1910 and undated  | 22 : 25             |
| Measurement, undated  | 22 : 26             |
| Metal drawing, 1962   | 22 : 27             |
| Mill and factory, 1940, 1957, and 1959  | 22 : 28             |
| <i>Milling Cutter Handbook</i> , undated  | 22 : 29             |
| Mine investigation notes, 1959  | 22 : 30             |
| <i>Mining and Scientific Press</i> , 1861   | 22 : 31             |
| <i>Mining Congress Journal</i> , 1940-1960  | 22 : 32             |
| Miscellaneous, 1905-1965  | 22 : 33-34          |
| <i>Motor Generator Maintenance</i> , undated  | 22 : 35             |
| National Industrial Recovery Act, undated   | 22 : 36             |
| New York Metal Exchange - Rules and Contracts, 1923   | 22 : 37             |
| "Notes on Trip of April 1952 to the Northwest Mining Districts," by B. Delinger, 1952                               | 22 : 38             |
| Outdoor cable terminals, 1929   | 22 : 39             |
| Oxwelding, 1930-1931  | 22 : 40             |
| <i>Packings and Gaskets of Teflon</i> , undated   | 22 : 41             |
| Pipe and tube, 1952-1953 and undated  | 22 : 42             |
| Pipe Fabrication Institute, 1949  | 22 : 43             |
| Pistons, 1954   | 22 : 44             |
| Placer mining, undated  | 22 : 45             |
| <i>Plant</i> , 1950-1953  | 23 : 1              |
| Plumbing, 1964  | 23 : 2              |
| Plywood, 1948-1956  | 23 : 3              |
| <i>Practical Preventive Maintenance for Gas-Diesel and Diesel Engines</i> , 1951                                    | 23 : 4              |
| P.R.E. compressor, 1917-1969 and undated  | 23 : 5              |
| <i>Prepact Reporter</i> , 1953-1956   | 23 : 6              |
| Preparation of surfaces, 1938   | 23 : 7              |
| "Prospector's Guide for Uranium," by P. W. Peter, 1953  | 23 : 8              |
| Pumps, 1939, 1954, and undated  | 23 : 9              |
| Radio communications, 1921  | 23 : 10             |
| Rainfall reports, 1941-1965   | 23 : 11             |
| Red Ledge report  | 23 : 12-13          |
| 1923 with supplements from 1927   | 23 : 12             |
| 1928  | 23 : 13             |
| Reference file - Ed Burger, Magnet Consolidated Mines, Ltd., 1940-1942  | 23 : 14-15          |
| <i>Report on Hydro-Electric Power Development on Middle Fork of Yuba River</i> , 1909                               | 23 : 16             |
| <i>Report on Proposed Power Development of the Middle Yuba Hydro Electric Company</i> , by<br>L. R. Stillwell, 1909 | 23 : 17             |

| <u>Folder Title</u>  | <u>Box : Folder</u> |
|--|---------------------|
| <i>Report on the Properties of the Middle Yuba Hydro-Electric Power Company, California,</i><br>by Galloway and Markwart, 1910 | 23 : 18             |
| <i>Rescue and Recovery Operations in Mines After Fires and Explosions,</i> 1916  | 23 : 19             |
| Restricted war department technical manual - Ford trucks, 1942   | 23 : 20             |
| Roller bearings, 1950  | 23 : 21-22          |
| Rust-proofing, undated   | 23 : 23             |
| <i>Safety Manua</i> , by St. Joseph Lead Company, undated  | 23 : 24             |
| <i>Safety Rules and Regulations,</i> by Phelps Dodge Corp., 1929   | 23 : 25             |
| Scraper mucking, 1931  | 24 : 1              |
| <i>Scraper Mucking and Loading,</i> by Ingersoll-Rand, 1939  | 24 : 2              |
| Seamless steel tubes, 1948   | 24 : 3              |
| <i>Soil Survey of the Grass Valley Area, California,</i> by U. S. D. A., 1921  | 24 : 4              |
| Soldering, undated   | 24 : 5              |
| Stainless steel, 1951  | 24 : 6              |
| Steam condensing plants, 1925  | 24 : 7              |
| Steel, 1949 and undated  | 24 : 8              |
| Steel water pipes, 1948  | 24 : 9              |
| Synchronous motors, 1929   | 24 : 10             |
| Thread tips, undated   | 24 : 11             |
| Titanium, 1954   | 24 : 12             |
| Transformers, 1951, 1955 and undated   | 24 : 13             |
| Turbo alternator, undated  | 24 : 14             |
| "Underground Scraping Practice in Metal Mines" manuscript report no. 1, undated  | 24 : 15             |
| Valves, 1966-1967  | 24 : 16             |
| <i>Vocational Education,</i> by the California State Board of Education, 1920  | 24 : 17             |
| Welding, 1941-1951   | 24 : 18             |
| Wheel alignment, undated   | 24 : 19             |
| Whitewash recipe, 1910   | 24 : 20             |
| <i>Wire Cable Treatment and Lubrication,</i> 1938  | 24 : 21             |
| Wire rope  | 24 : 22-24          |
| 1935, 1940, 1942-1943, 1948, 1961, and 1966  | 24 : 22-23          |
| <i>Know Your Ropes,</i> 1937and 1947   | 24 : 24             |
| Worthington Company pumps, 1931, 1955-1958, and undated  | 24 : 25-26          |
| Wrought iron, undated  | 24 : 27             |

**Series 7. Vendor Material, 1893-1982. 35.75 cubic ft.****Subseries Scope and Content Summary**

This subseries contains correspondence, product samples, and vendor publications such as catalogs, instructions, and promotional material.

This series is arranged into ten subseries:

- 7.1. Catalogs, 1899-1982 and undated. 24 cubic ft.
- 7.2. Correspondence, 1895-1967. 1.5 cubic ft.
- 7.3. Data Books and Data Sheets, 1918-1958 and undated. 1 cubic ft.
- 7.4. Handbooks, 1935-1959 and undated. .25 cubic ft.
- 7.5. Industrial Publications, 1896-1960. .5 cubic ft.
- 7.6. Instructions, 1906-1966. 3.5 cubic ft.
- 7.7. Parts/price lists, 1900-1970 and undated. 1.5 cubic ft.
- 7.8. Product Info, 1948-1959 and undated. .125 cubic ft.
- 7.9. Product samples, 1923 and undated. .125 cubic ft.
- 7.10. Promotional Materials, 1893-1970 and undated. 3.25 cubic ft.

**Subseries 7.1. Catalogs, 1899-1982 and undated. 24 cubic ft.****Subseries Scope and Content Summary**

This subseries contains vendor catalogs received primarily by Phil Keast. The catalogs include product descriptions and specifications and, in some cases, product prices.

This subseries is arranged alphabetically by vendor name.

| <b><u>Folder Title</u></b>                               | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| Acme Chain Corporation, undated                          | 25 : 1-2                   |
| Aetna Ball and Roller Bearing Company, 1960              | 25 : 3                     |
| Ainsworth, William, and Sons, 1912 and ca. 1914          | 25 : 4                     |
| Airco, 1950-1952 and undated                             | 25 : 5-6                   |
| Alabax Porcelain Lighting Fixtures, undated              | 25 : 7                     |
| Allen-Bradley Company, 1980-1982                         | 25 : 8-10                  |
| Allen-Sherman-Hoff Company, 1940                         | 25 : 11                    |
| Allis-Chalmers Manufacturing Company, 1936-1940 and 1942 | 25 : 12-13                 |
| American Brake Shoe Company, 1950-1952                   | 25 : 14                    |
| American Diamond, undated                                | 25 : 15                    |
| American Hardware Corporation, 1951                      | 25 : 16                    |
| American Lead pencil Company, 1927                       | 25 : 17                    |
| American Optical Company, Safety Division, 1946          | 25 : 18                    |
| American Standard, 1955 and 1959                         | 25 : 19-20                 |
| Ames Harris Neville Company, 1915                        | 25 : 21                    |
| Anaconda American Brass Company, undated                 | 25 : 22                    |

| <b><u>Folder Title</u></b>   | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| Anaconda Wire and Cable Company, 1937-1949 and 1951                | 25 : 23-26                 |
| Appleton Electric Company, 1938 and 1959                           | 26 : 1-4                   |
| Armstrong Brothers Tool Company, 1956                              | 26 : 5                     |
| Arrow Hart and Hegeman Electric Company, 1959                      | 26 : 6                     |
| Ashcroft American, Oct. 1939                                       | 26 : 7                     |
| Atkins, E. C., and Company, Inc., undated                          | 26 : 8                     |
| Atlas Car and Manufacturing Company, undated                       | 26 : 9                     |
| Austin - Western Road Machinery Company, 1936                      | 26 : 10                    |
| Automatic Switch Company, 1950                                     | 26 : 11                    |
| Bacon, Edward R., Company, 1948 and 1956                           | 26 : 12-13                 |
| Baker and Hamilton, 1952-1972 and undated                          | 26 : 14 - 27 : 2           |
| Barrett, Haentjens, and Company, 1956                              | 27 : 3                     |
| Bearing and Engineering Company, 1942, 1946, and 1950s             | 27 : 4-11                  |
| Benjamin Electric Company, 1949-1950                               | 27 : 12-13                 |
| Bergstrom Steel Company, undated                                   | 27 : 14                    |
| Bethlehem Steel Company, 1936, 1948-1954, and undated              | 28 : 1-9                   |
| Black and Decker Manufacturing Company, 1957                       | 28 : 10                    |
| Braun-Knecht-Heimann Company, 1914, 1917, 1938, and 1955           | 28 : 11-13                 |
| Broderick and Bascom Rope Company, 1937                            | 28 : 14                    |
| Brown and Sharpe, 1951   | 28 : 15                    |
| Brown Instrument Company, 1931                                     | 28 : 16                    |
| Brown Pyrometers, 1930   | 28 : 17                    |
| Brunswick-Balke-Collender Company, 1917 and 1928                   | 28 : 18                    |
| Bullard-Davis, Inc., undated                                       | 28 : 19                    |
| Bullard, E. D., 1920 and undated                                   | 28 : 20                    |
| Busch-Sulzer Bros. Diesel Engine Company, 1915                     | 28 : 21                    |
| Calstrip Steel Corporation, undated                                | 28 : 22                    |
| Carborundum Company, 1914  | 28 : 23                    |
| Card, C. S., Iron Works Company, 1940                              | 28 : 24                    |
| Cascade Fiberglass Inc., undated                                   | 28 : 25                    |
| Caterpillar, 1941-1958   | 28 : 26-29 : 3             |
| Chain Belt Company, 1939   | 29 : 4                     |
| Chapman Valve Manufacturing Company, 1947 and 1951                 | 29 : 5-7                   |
| Chase-Shawmut Company, 1959  | 29 : 8                     |
| Chicago Blower Corporation, 1954                                   | 29 : 9                     |
| Chicago Pneumatic Tool Company, 1929, 1949, and 1951-1952          | 29 : 10-13                 |
| Chicago Wheel Company, 1950  | 29 : 14                    |
| Chisholm-Moore Hoist Corporation, undated                          | 29 : 15                    |
| Chrome Steel Works, 1911   | 29 : 16                    |
| Cleveland Twist Drill Company, 1952                                | 29 : 17                    |
| Clipper Belt Lacing Company, 1913 and 1915                         | 29 : 18                    |
| Colorado Fuel and Iron Corporation, 1948-1949, 1953-1954, and 1960 | 29 : 19-24                 |
| Combustion Engineering Corporation, 1929 and undated               | 30 : 1-2                   |

| <b><u>Folder Title</u></b>                                    | <b><u>Box : Folder</u></b> |
|---|----------------------------|
| Compressed Air Machinery Company, undated                     | 30 : 3                     |
| Control Products Company, 1957                                | 30 : 4                     |
| Conveyor Components Company, 1970                             | 30 : 5                     |
| Crane Company, 1936, 1940-1941, 1949, 1952, 1960, and undated | 30 : 6-14                  |
| Crescent Insulated Wire and Cable Company, undated            | 30 : 15                    |
| Crescent Tool Company, 1954                                   | 30 : 16                    |
| Crosby, 1929  | 30 : 17                    |
| Crouse-Hinds, 1929, 1943, 1953, 1959, and 1962                | 30 : 18-31 : 5             |
| Crucible Steel Company, 1925, 1957, and undated               | 31 : 6-7                   |
| Cutler-Hammer distributor, 1955-1956                          | 31 : 8                     |
| Dake Presses, 1960  | 31 : 9                     |
| Degen, L. P., Belting Company, 1906                           | 31 : 10                    |
| Delta Star Electric, 1956                                     | 31 : 11-12                 |
| Denver Equipment Company, 1936, 1947, and 1954                | 31 : 13-15                 |
| Denver Fire Company, 1943                                     | 31 : 16                    |
| Dialight Corporation, 1959                                    | 32 : 1                     |
| Dietzgen, Eugene, Company, 1959 and undated                   | 32 : 2-4                   |
| Dings, undated  | 32 : 5                     |
| Disston, Henry, and Sons, Inc., 1940                          | 32 : 6                     |
| Dixon, Joseph, Crucible Company, ca. 1910                     | 32 : 7                     |
| Do All, 1963  | 32 : 8                     |
| Dorr Cyanide Machinery Company, 1914                          | 32 : 9                     |
| Driver-Harris Company, 1957                                   | 32 : 10                    |
| Eaton Manufacturing Company, undated                          | 32 : 11                    |
| Edwards, E. H., Company, ca. 1930                             | 32 : 12                    |
| Electric Corporation, 1943                                    | 32 : 13                    |
| Emerson Electric, 1952  | 32 : 14                    |
| Engineering Society, undated                                  | 32 : 15                    |
| Exeter Machine Works, undated                                 | 32 : 16                    |
| Falk, Milwaukee, 1939-1940s                                   | 32 : 17-18                 |
| Falk Corporation, 1951  | 32 : 19                    |
| Federal Electric Company, undated                             | 32 : 20                    |
| Finn, John, Metal Works, 1930                                 | 32 : 21                    |
| Firth-Sterling, undated                                       | 32 : 22-23                 |
| Foote Bros., 1927, 1937, and 1953                             | 32 : 24-33 : 2             |
| Foster Company, 1958  | 33 : 3                     |
| Fowler, Chas. A., Company, ca. 1952                           | 33 : 4-5                   |
| Foxboro Industrial Instrumentation, undated                   | 33 : 6                     |
| Fraser and Chalmers, 1899 and undated                         | 33 : 7                     |
| Gandy Belting Company, 1912                                   | 33 : 8                     |
| Gardner-Denver Company, 1945                                  | 33 : 9                     |
| Gardner and Sugarman, undated                                 | 33 : 10                    |
| Garlock Klozures, 1951 and 1957                               | 33 : 11                    |
| Garlock Packing Company, 1937, 1949, 1952, and 1957           | 33 : 12-14                 |

| <b><u>Folder Title</u></b>                                 | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| Gates Rubber Company, 1960                                 | 33 : 15                    |
| General Cable, 1929  | 33 : 16                    |
| General Electric Company                                   | 33 : 17-35 : 3             |
| 1930   | 33 : 17                    |
| 1942   | 33 : 18                    |
| Control, 1943  | 34 : 1                     |
| Control General Purpose, 1961                              | 34 : 2                     |
| Delta Beston Wire and Cable, undated                       | 34 : 3                     |
| Electric Equipment for Industry, 1936, 1939-1940, and 1947 | 34 : 4-7                   |
| Electric Equipment for Machinery, undated                  | 34 : 8                     |
| Industrial Cable, 1934                                     | 34 : 9                     |
| Industrial Control, no. GEA-606B, 1930                     | 34 : 10                    |
| Informal Catalog of Repair Parts, no. 2763, 1917           | 34 : 11                    |
| Insulating Materials, 1940                                 | 34 : 12                    |
| Large Lamp, 1949-1956                                      | 34 : 13                    |
| Magnetic Starter and Contractors, undated                  | 34 : 14                    |
| Motors, 1939   | 34 : 15                    |
| Renewal Parts, 1921, 1935, 1946, 1951, 1956, and undated   | 34 : 16-21                 |
| Renewal Parts and Supplies, 1948-1952                      | 34 : 22-24                 |
| Time Switch, undated                                       | 34 : 25                    |
| Wiring, 1936, 1939, 1941, and 1947                         | 34 : 26-35 : 3             |
| General Machinery and Supply Company, 1948                 | 35 : 4                     |
| General Switch Corporation, 1952                           | 35 : 5                     |
| Gits Bros. Manufacturing Company, 1941                     | 35 : 6                     |
| Glesener, A. J., Company, 1935 and 1951                    | 35 : 7-8                   |
| Globe Lighting Products, 1957                              | 35 : 9                     |
| Goldak, undated  | 35 : 10                    |
| Goodman Manufacturing Company, 1930 and 1949-1955          | 35 : 11-36 : 3             |
| Goodrich, B. F., 1927-1928                                 | 36 : 4                     |
| Goodyear Rubber Company, 1915 and 1927-1928                | 36 : 5                     |
| Graton and Knight Company, 1952                            | 36 : 6                     |
| Graybar Electric Company, 1941                             | 36 : 7                     |
| Greenlee Tool Company, undated                             | 36 : 8                     |
| Hall-Mac Company, 1963                                     | 36 : 9                     |
| Hansen Manufacturing Company, 1956-1958                    | 36 : 10                    |
| Haven Saw and Tool Company, 1948                           | 36 : 11                    |
| Haydon Manufacturing Company, undated                      | 36 : 12                    |
| Heine Boiler Company, 1928                                 | 36 : 13                    |
| Hickinbotham Bros. Limited, 1952                           | 36 : 14                    |
| Hodgman Rubber Company, ca. 1925                           | 36 : 15                    |
| Hood Rubber Products Company, Inc., ca. 1928               | 36 : 16                    |
| Howard Supply Company, undated                             | 36 : 17                    |
| Hubbard and Company, undated                               | 36 : 18                    |

| <b><u>Folder Title</u></b>                                | <b><u>Box : Folder</u></b> |
|---|----------------------------|
| Ideal Company, undated                                    | 36 : 19                    |
| Incandescent Supply Company, 1956                         | 36 : 20                    |
| Industrial Gear Manufacturing Company, undated            | 36 : 21                    |
| Ingersoll-Rand Company, 1906 and undated                  | 36 : 22-37 : 2             |
| Insulation Manufacturers Corporation, 1959                | 37 : 3                     |
| International Acheson Graphite Company, undated           | 37 : 4                     |
| International Tractor, undated                            | 37 : 5                     |
| International Trucks, 1950 and undated                    | 37 : 6-8                   |
| James, D. O., 1937, 1944, and undated                     | 37 : 9-13                  |
| Jeffrey Manufacturing Company, undated                    | 37 : 14                    |
| Jenkins Valves, 1940                                      | 37 : 15                    |
| Jewell Electrical Instrument Company, undated             | 37 : 16                    |
| Johnson Bronze Company, 1951                              | 37 : 17                    |
| Johnston, Geo. S., Company, ca. 1930                      | 37 : 18                    |
| Jones, W. A., Foundry and Machine Corporation, 1929       | 38 : 1                     |
| Joslyn Manufacturing and Supply Company, 1926             | 38 : 2                     |
| Joy Manufacturing Company, undated                        | 38 : 3-4                   |
| Keuffel and Esser Company, 1949 and 1954                  | 38 : 5-6                   |
| Keystone Lubricants, 1946                                 | 38 : 7                     |
| Kilbourne and Jacobs Manufacturing Company, 1908          | 38 : 8                     |
| Kny-Sheerer Company, undated                              | 38 : 9                     |
| Ladish Fittings, undated                                  | 38 : 10                    |
| Leeds and Northrup Company, 1927                          | 38 : 11                    |
| Leitz, A. P., Company, undated                            | 38 : 12                    |
| Leschen Wire Rope Company, 1951 and 1956                  | 38 : 13-14                 |
| Leynor Company, 1899                                      | 38 : 15                    |
| Lincoln Electric Company, 1952                            | 38 : 16                    |
| Link Belt Company, 1913, 1936, 1947, 1950, 1954, and 1958 | 38 : 17-39 : 3             |
| Locke Insulator Corporation, 1927                         | 39 : 4                     |
| Logan Engineering Company, 1927-1951                      | 39 : 5                     |
| Logan Manufacturing Company, undated                      | 39 : 6                     |
| Longyear, E. J., Company, 1940                            | 39 : 7                     |
| Lufkin Rule Company, undated                              | 39 : 8                     |
| Lunkenheimer Company, 1939 and 1953                       | 39 : 9-10                  |
| Machinery, undated  | 39 : 11                    |
| Marsh Corporation, undated                                | 39 : 12                    |
| Marshall-Newell Supply Company, 1957                      | 39 : 13                    |
| Martindale Electric Company, 1930                         | 39 : 14                    |
| Marwedel, C. W., 1953 and 1958                            | 39 : 15-16                 |
| Marwood Limited, 1934 and 1943                            | 39 : 17-40 : 1             |
| Master Electric Company, 1958                             | 40 : 2                     |
| McGill Manufacturing Company, undated                     | 40 : 3                     |
| McGraw-Hill, 1914-1915 and 1949-1952                      | 40 : 4-6                   |
| McMaster-Carr Supply Company, 1949                        | 40 : 7                     |

| <b><u>Folder Title</u></b>                                       | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| McQuay-Norris, 1953  | 40 : 8-9                   |
| Meese and Gottfried Company, 1919                                | 40 : 10                    |
| Mercoid Corp., 1950  | 40 : 11                    |
| Metal and Non-Metallic Mining Catalogs, 1943                     | 40 : 12                    |
| Meyberg, Leo J., Company, undated                                | 41 : 1                     |
| Midwest Piping Company, 1948 and 1954                            | 41 : 2-3                   |
| Midwest Steel Corp. Rails, track work and accessories, undated   | 41 : 4                     |
| Miller Company, 1949   | 41 : 5                     |
| Miller, Sloss and Scott, undated                                 | 41 : 6                     |
| Mine Safety Appliance Company, ca. 1920, 1925, 1932, and undated | 41 : 7-8                   |
| Mine and Smelter Supply Company, 1951 and undated                | 41 : 9-10                  |
| Mines Equipment Company/Joy Manufacturing Company, 1949-1950     | 41 : 11                    |
| Mining Catalogs, 1952-1953                                       | 41 : 12                    |
| Mining World, 1957-1958  | 41 : 13-14                 |
| Minneapolis-Honeywell Regulator Company, 1951                    | 41 : 15                    |
| Morse Twist Drill and Machine Company, 1952                      | 41 : 16                    |
| Mueller Brass Company, undated                                   | 41 : 17                    |
| Mueller Company, 1953 and 1955-1956                              | 41 : 18-19                 |
| National Electric Coil Company, undated                          | 42 : 1                     |
| National Electric Products Corp., 1941                           | 42 : 2                     |
| National Motor Bearing Company, Inc., ca. 1930                   | 42 : 3                     |
| National Safety Council, 1926                                    | 42 : 4                     |
| National Tank and Pipe Company, 1937                             | 42 : 5                     |
| National Tube Company, 1935, 1937, and 1949-1958                 | 42 : 6-8                   |
| National Twist Drill and Tool Company, 1948                      | 42 : 9                     |
| New Departure, undated   | 42 : 10                    |
| New Departure Manufacturing Company, 1934                        | 42 : 11                    |
| New Jersey Asbestos Company, undated                             | 42 : 12                    |
| Newark Wire Cloth Company, "D", undated                          | 42 : 13                    |
| Nice Ball Bearing Company, 1957                                  | 42 : 14                    |
| Nicholson File Company, 1947                                     | 42 : 15                    |
| Norma-Hoffmann Bearings Corporation, undated                     | 42 : 16                    |
| Ohio Brass Company, 1934, 1939-1940, and 1949-1950               | 42 : 17-22                 |
| Ohio Ceramic Engineering Company, 1914 and undated               | 42 : 23                    |
| Ohio Injector Company, 1952                                      | 42 : 24                    |
| Oil Injector Company, 1946                                       | 43 : 1                     |
| Okonite Company, 1958 and 1963                                   | 43 : 2-6                   |
| Oxweld Acetylene Company, 1914                                   | 43 : 7                     |
| Pacific Abrasive Supply Company, 1952                            | 43 : 8                     |
| Pacific Gear and Tool Works, 1947                                | 43 : 9                     |
| Pacific Metals Company, undated                                  | 43 : 10                    |
| Pacific Mill and Mine Supply Company, undated                    | 43 : 11                    |
| Pacific States Electric Company, undated                         | 43 : 12                    |

| <b><u>Folder Title</u></b>  | <b><u>Box : Folder</u></b> |
|---|----------------------------|
| Pass-Seymour Inc., 1936   | 43 : 13                    |
| Patent Scaffold Company, undated  | 43 : 14                    |
| Philco Corp., undated   | 43 : 15                    |
| Philpott, George M., Company, undated   | 43 : 16                    |
| Pioneer Mechanical Rubber Goods, 1931   | 43 : 17                    |
| Poole Foundry and Machine Company, undated  | 44 : 1                     |
| Porter, H. K., Company, 1958  | 44 : 2                     |
| Post, Frederick, Company, 1956  | 44 : 3                     |
| Pratt and Whitney Company, 1957   | 44 : 4                     |
| Precision Instruments, 1959   | 44 : 5                     |
| Prestolite, 1931  | 44 : 6                     |
| Reeves Pulley Company, 1948 and 1951  | 44 : 7-8                   |
| Republic Supply, 1950 and 1952  | 44 : 9-10                  |
| Revere Rubber Company, undated  | 44 : 11                    |
| Rockbestos Wire and Cable, 1954   | 44 : 12                    |
| Rockwell Manufacturing Corp., undated   | 44 : 13                    |
| Roebbling's, John A., Sons Company, ca. 1898, 1930, 1949, 1951, 1953, 1957, and undated | 44 : 14-45 : 1             |
| Rosendale-Reddaway Belting and Hose Company, undated                                    | 45 : 2                     |
| Royal Electric Corp., 1954  | 45 : 3                     |
| Royers Ford Foundry and Machine Company, undated  | 45 : 4                     |
| Ryan, W. M., Company, undated   | 45 : 5                     |
| Ryerson Steel, 1951-1952  | 45 : 6                     |
| Sacramento Rubber Company, 1953   | 45 : 7-8                   |
| Safety Equipment Service Company, undated   | 45 : 9                     |
| Schader, A. D., 1946  | 45 : 10                    |
| Shaw, C. H., Company, undated   | 45 : 11                    |
| Simonds Saw and Steel Company, undated  | 45 : 12                    |
| SKF Industries, 1938  | 45 : 13                    |
| Sloan Valve Company, 1947   | 45 : 14                    |
| Smith-Blair Inc., 1955  | 45 : 15                    |
| Southern Pipe and Casing Company, undated   | 45 : 16                    |
| Southwest Welding and Manufacturing Company, 1943                                       | 45 : 17                    |
| Spring Systems Company, 1943  | 45 : 18                    |
| Square D Company, 1951 and 1978   | 45 : 19-20                 |
| Standard Underground Cable Company, 1913  | 45 : 21                    |
| Starrett Company, 1938 and 1955   | 45 : 22-23                 |
| Steber Manufacturing Company, 1951-1953   | 45 : 24                    |
| Stephens Adamson Manufacturing Company, 1914 and 1954                                   | 45 : 25-26                 |
| Stonehouse Signs Incorporated, ca. 1913, 1925, and undated                              | 46 : 1                     |
| Stromberg-Carlson, 1959 and undated   | 46 : 2-4                   |
| Sullivan Machinery Company, 1932  | 46 : 5                     |
| SunTent and Awning Company, 1922  | 46 : 6                     |
| Sunnen Products Company Automotive, 1956  | 46 : 7                     |

| <b><u>Folder Title</u></b>                                       | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| Superior Corundum Wheel Company, undated                         | 46 : 8                     |
| Syntron Equipment, 1952  | 46 : 9                     |
| Taylor Engineering and Manufacturing Company, no. 4000, 1930     | 46 : 10                    |
| Taylor Forge, 1949   | 46 : 11                    |
| Thomas Flexible Coupling Company, 1952                           | 46 : 12                    |
| Thomas Register, 1946  | 46 : 13                    |
| Thor Tool Company, undated                                       | 46 : 14                    |
| Threadwell Tap and Die Company, 1951-1952                        | 46 : 15                    |
| Timkin Rock Bits, 1937-1944                                      | 46 : 16                    |
| Timkin Roller Bearing Company, 1950                              | 46 : 17                    |
| Torrington Company, 1958 and undated                             | 46 : 18                    |
| Tower, A. H., Company, 1921 and 1924                             | 46 : 19                    |
| Trent Engineering and Machinery Company, undated                 | 46 : 20                    |
| Trerice Company, 1951  | 46 : 21                    |
| Tri-State Supply Corp., 1947, 1949, 1952, and undated            | 46 : 22-25                 |
| Trumbull Electric Manufacturing Company, 1941                    | 46 : 26                    |
| Tube-Turn, 1949  | 46 : 27                    |
| Union Chain and Manufacturing Company, 1939-1940                 | 47 : 1-2                   |
| Union Manufacturing Company, 1941                                | 47 : 3                     |
| Union Twist Drill Company, 1950                                  | 47 : 4                     |
| Union Wire Rope, 1939 and 1942                                   | 47 : 5-6                   |
| United States Electrical Motors Inc, 1955-1958                   | 47 : 7                     |
| United States Rubber Company, 1926-1927, 1930- 1931, and undated | 47 : 8-10                  |
| Universal Rubber Manufacturing Company, 1922                     | 47 : 11                    |
| Upham, Isaac, Company, undated                                   | 47 : 12                    |
| Valveair Corp, 1953  | 47 : 13                    |
| Van Nostrand, D., Company, undated                               | 42 : 14                    |
| Vascoloy-Ramet Corp, 1956  | 47 : 15                    |
| Victaulic, undated   | 47 : 16                    |
| Victor Gaskets Company, 1951                                     | 47 : 17                    |
| Vogt, Henry, Machine Company, 1940                               | 47 : 18                    |
| Walworth Company, 1942 and undated                               | 47 : 19-48 : 1             |
| Wesix Electric heater Company, 1962                              | 48 : 2                     |
| Western Fire Equipment Company, 1946                             | 48 : 3                     |
| Western Instrument Company, undated                              | 48 : 4                     |
| Westinghouse, 1932, 1939-1943, 1948-1957, and undated            | 48 : 5-16                  |
| White Motor Company Service Parts Book, 1937                     | 49 : 1                     |
| Whitman and Barnes, 1946   | 49 : 2                     |
| Wiley, John, and Sons, 1907, 1908, and undated                   | 49 : 3                     |
| Willson Products Incorporated, undated                           | 49 : 4                     |
| Wilson Company, undated  | 49 : 5                     |
| Woodin and Little, undated                                       | 49 : 6                     |
| Worthington Pump and Machinery Corp., 1923                       | 49 : 7                     |
| Wyoming Shovel Works, undated                                    | 49 : 8                     |

**Folder Title**

Youngstown Sheet and Tube Company, 1937

**Box : Folder**

49 : 9

**Subseries 7.2. Correspondence, 1895-1967. 1.5 cubic ft.****Subseries Scope and Content Summary**

This subseries contains correspondence from vendors to various mines and individuals. Much of the correspondence is to Phil Keast at Empire Mine. Topics of correspondence include the introduction of new products and answers to equipment queries.

This subseries is arranged topically into three sections: administrative, equipment-related, and by vendor. Within each section, the folders are arranged alphabetically.

**Folder Title**

Administrative

Business cards received, undated

Empire Mine, A-Z, 1911-1929

Phil Keast, A-Z, 1931-1980

Phil Keast correspondence log, 1928-1941

Phil Keast correspondence log - pumps, 1937-1946

Equipment-related

Blower fan and Mug Wamp Mine, 1931-1964

Compressor motor #5 hoist, 1931-1940

Concrete, 1952-1956

Drill bits and rods, 1941-1953

Empire Mine pump, 1955-1956

Fan Noise, 1959

Hoist, 1967

Hydroseal pump and Empire dump, 1965 and undated

Oil furnace and warm air conditioner, 1953-1958

Pipeline, Brunswick Road, 1965

Portable air compressor, 1955-1963

Power plant, 1955-1956

Vendors

Allis-Chalmers Manufacturing Company, 1950

Alpha Hardware Co., 1950

Aros Electric Inc., 1958

Byron Jackson Co., 1951

Clay Pipe Institute, 1959

Codman Machinery Corp., 1956

Elder and Company, 1956

Electric Engineering Company, 1895

Fraser and Chalmers, 1895

**Box : Folder**

49 : 10-17

49 : 10

49 : 11-14

49 : 15

49 : 16

49 : 17

49 : 18-50 : 4

49 : 18

49 : 19

49 : 20

49 : 21

49 : 22

49 : 23

49 : 24

49 : 25

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50 : 4

50 : 5-51 : 2

50 : 5

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50 : 10

50 : 11

50 : 12

50 : 13

| <u>Folder Title</u>   | <u>Box : Folder</u> |
|---|---------------------|
| Vendors (continued)   |                     |
| Garwood Industries, 1955                                      | 50 : 14             |
| General Cable Power Circuits, 1962                            | 50 : 15             |
| General Electric Company, 1934-1961                           | 50 : 16-18          |
| Goodrich, B. F., Company, 1940                                | 50 : 19             |
| Greensburg Machine Company, 1952                              | 50 : 20             |
| Hyster Company, 1956  | 50 : 21             |
| Ingersoll-Rand, 1932, 1938, and 1961                          | 50 : 22-24          |
| Jackson, Byron, Company, 1961-1968                            | 50 : 25-26          |
| Joy Manufacturing Company, Remote Control Slushers, 1952-1954 | 50 : 27             |
| Mancha Little Trammers, 1952-1966                             | 50 : 28             |
| Mine Smelter Supply Company, 1948                             | 50 : 29             |
| Norberg Manufacturing, 1942-1960                              | 50 : 30             |
| Norwalk Iron Works, 1895                                      | 50 : 31             |
| Pelton Water Wheel Company, 1895                              | 50 : 32             |
| Risdon Iron and Locomotive Works, 1895                        | 50 : 33             |
| Rix, E. A., 1895  | 50 : 34             |
| St. Joseph Lead Company, 1952-1957                            | 50 : 35             |
| Schaw, Ingram, Batcher and Company, 1895                      | 50 : 36             |
| Sunnen Products Company, 1956                                 | 50 : 37             |
| Timken Roller Bearing Company, 1964                           | 50 : 38             |
| Towmotor Corporation, 1956                                    | 50 : 39             |
| Tube Turns, 1957 and 1967                                     | 50 : 40             |
| Western Industrial Supply Company, 1956                       | 50 : 41             |
| Westinghouse, 1937-1959                                       | 50 : 42-45          |
| Worthington Centrifugal Pump, 1936                            | 51 : 1              |
| Yale and Towne Manufacturing Company, 1956                    | 51 : 2              |

### **Subseries 7.3. Data Books and Data Sheets, 1918-1959 and undated. 1 cubic ft.**

#### **Subseries Scope and Content Summary**

This subseries contains data books and data sheets, a common type of vendor publication. The publications include information such as product specifications, what the product is made of, product sizes, and other general product data.

This subseries is arranged alphabetically by vendor name.

| <u>Folder Title</u>  | <u>Box : Folder</u> |
|--|---------------------|
| American Brass Company, 1950                                 | 51 : 3              |
| Crucible Steel, 1945-1946, 1948-1955, and 1957               | 51 : 4-15           |
| Dow Corning, 1948  | 51 : 16             |
| Goldsmith Bros. Smelting and Refining Company, 1950 and 1952 | 51 : 17-18          |
| Hauck Manufacturing, 1953                                    | 51 : 19             |

| <u>Folder Title</u>                         | <u>Box : Folder</u> |
|---|---------------------|
| Ingersoll-Rand, 1918                        | 51 : 20             |
| Johns-Manville, 1944                        | 51 : 21             |
| Kelly Pipe Company, undated                 | 51 : 22             |
| Link-Belt Company, 1931                     | 51 : 23             |
| National Cylinder Gas Company, 1956         | 51 : 24             |
| Permutit Water Conditioning, 1952-1953      | 51 : 25             |
| Republic Steel, 1959                        | 51 : 26             |
| Reynolds Aluminum, 1957                     | 51 : 27             |
| Ryerson and Son Inc., 1958                  | 51 : 28             |
| Simplex Wire, 1936-1937                     | 51 : 29             |
| Westinghouse, 1954 and undated              | 51 : 30-52 : 1      |
| Worthington Rock Drills and Air Tools, 1949 | 52 : 2              |

#### **Subseries 7.4. Handbooks, 1935-1959 and undated. .25 cubic ft.**

##### **Subseries Scope and Content Summary**

This subseries contains handbooks on general topics that are published by vendors.

This subseries is arranged alphabetically by vendor name.

| <u>Folder Title</u>                               | <u>Box : Folder</u> |
|---|---------------------|
| Cleveland Rock Drill Company, 1941                | 52 : 3              |
| Commercial Shearing and Stamping Company, undated | 52 : 4              |
| Crucible Steel, 1955                              | 52 : 5              |
| International Epoxy Corp., undated                | 52 : 6              |
| Landis Machine Company, 1935 and 1954             | 52 : 7              |
| Roebeling's, John. A., Sons Company, 1947         | 52 : 8              |
| Westinghouse, 1959                                | 52 : 9              |

#### **Subseries 7.5. Industrial Publications, 1896-1960. .5 cubic ft.**

##### **Subseries Scope and Content Summary**

This subseries contains newsletters and journals by vendors about general topics in the mining and equipment industry.

This subseries is arranged alphabetically by publication title or vendor name.

| <u>Folder Title</u>                             | <u>Box : Folder</u> |
|---|---------------------|
| American Zinc, Lead and Smelting Company, 1940  | 52 : 10             |
| <i>Blasters Handbook</i> , by Dupont, 1954      | 52 : 11             |
| <i>Buick Magazine</i> , by General Motors, 1941 | 52 : 12             |

| <b><u>Folder Title</u></b>   | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| Cambria Steel Company, 1903  | 52 : 13                    |
| <i>Coil Talk</i> , by National Electric Coil Company, 1947-1949            | 52 : 14                    |
| <i>Compressed Air</i> , 1896   | 52 : 15                    |
| Crucible Steel Company of America, 1925                                    | 52 : 16                    |
| <i>Deco Trefoil</i> , 1941, 1945, and 1946                                 | 52 : 17                    |
| <i>Distribution</i> , by General Electric, 1943                            | 52 : 18                    |
| <i>Explosives Engineer</i> , by Hercules Powder Company, 1940-1941         | 52 : 19                    |
| <i>Hyatt Way</i> , by Hyatt Roller Bearing Company, 1912                   | 52 : 20                    |
| <i>Industrial Bulletin</i> , by Worthington Corp., 1931                    | 52 : 21                    |
| <i>Lubrication</i> , by Texas Company, 1932-1933                           | 52 : 22                    |
| <i>Master Builders Reporter</i> , by Master Builders Company, 1956-1958    | 52 : 23                    |
| <i>National Brush Digest</i> , by Union Carbide and Carbon Corp., 1955     | 52 : 24                    |
| <i>News Digest</i> , by General Electric, 1945-1947                        | 52 : 25                    |
| <i>Nickel Cast Iron News</i> , by International Nickel Company Inc., 1945  | 52 : 26                    |
| <i>O-B Bulletin</i> , by Ohio Brass Company, 1932                          | 52 : 27                    |
| Ohmite Manufacturing Company, 1948   | 52 : 28                    |
| <i>Operator's Stabalizer</i> , by Lincoln Electric Company, 1932           | 52 : 29                    |
| <i>Ore Dressing Notes</i> , by American Cyanamide Company, 1936            | 52 : 30                    |
| <i>Oxy-Acetylene Tips</i> , by Lind Air Products Company, 1928-1933        | 52 : 31-53 : 1             |
| <i>Power and Fluids</i> , by Worthington Corp., 1954                       | 53 : 2                     |
| <i>Safeguarding Industry</i> , by A. C. Caruthers, 1919                    | 53 : 3                     |
| <i>Sharp Bits</i> , by Homestake Mining Company, 1957-1960                 | 53 : 4                     |
| <i>Standard Oil Bulletin</i> , 1932  | 53 : 5                     |
| <i>Steel</i> , 1942  | 53 : 6                     |
| <i>Tideways</i> , by Port of Stockton, 1953                                | 53 : 7                     |
| <i>Timken Engineering Journal</i> , by Tinken Roller Bearing Company, 1940 | 53 : 8                     |
| <i>Welder's Stabilizer</i> , by Lincoln Electric Company, 1943             | 53 : 9                     |
| <i>Wire Engineering</i> , by John A. Roebling's Sons Company, 1931-1932    | 53 : 10                    |

### **Subseries 7.6. Instructions, 1906-1966. 3.5 cubic ft.**

#### **Subseries Scope and Content Summary**

This subseries contains equipment instructions published and distributed by vendors.

This subseries is arranged alphabetically by vendor name.

| <b><u>Folder Title</u></b>                                 | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| Allis-Chalmers Company, 1906, 1932-1937, 1952, and undated | 53 : 11                    |
| Allis, Louis Company, undated                              | 53 : 12                    |
| American Can Company, undated                              | 53 : 13                    |
| Arcair Company, undated                                    | 53 : 14                    |
| Atlantic Paint Company, undated                            | 53 : 15                    |
| Atlas Car and Manufacturing Company, undated               | 53 : 16                    |

| <u>Folder Title</u>   | <u>Box : Folder</u> |
|---|---------------------|
| Atlas Copco, 1959 and 1966  | 53 : 17             |
| Atlas Diesel, 1950-1955   | 53 : 18             |
| Automatic Temperature Control Company, 1949-1952                                    | 53 : 19             |
| Bankheat Oil burners, 1953  | 53 : 20             |
| Bemis Bros. Bag Company, 1922   | 53 : 21             |
| Bendix-Westinghouse Automotive Air Brake Company, 1952                              | 53 : 22             |
| Biddle, James G., Company, 1935-1936 and 1948                                       | 53 : 23-24          |
| Black and Decker, 1959  | 53 : 25             |
| Blackmer Pump Company, undated  | 53 : 26             |
| Bowser, S. F. and Company, undated  | 53 : 27             |
| Boyle Bros. Drilling Company, undated   | 53 : 28             |
| Briggs and Stratton Corp., undated  | 53 : 29             |
| Bristol Company, 1950   | 53 : 30             |
| Bucyrus-Erie Company, undated   | 53 : 31             |
| Buffalo Fire Appliance Corp., 1945  | 53 : 32             |
| Buick, 1964   | 53 : 33             |
| Caterpillar Tractor Company, 1941 and undated                                       | 53 : 34-38          |
| Century Electric Company, undated   | 53 : 39             |
| Chicago Latrobe Company, 1950   | 53 : 40             |
| Chicago Pneumatic Tool Company, 1920, 1944, 1954, and undated                       | 53 : 41             |
| Cincinnati Milling Machine Company, 1929 and 1952                                   | 53 : 42             |
| Crane Company, 1951   | 53 : 43             |
| Crucible Steel Company, undated   | 53 : 44             |
| Cutler-Hammer Company, 1933-1935  | 53 : 45             |
| Deister Machine Company, undated  | 53 : 46             |
| Denver Rock Drill and Machinery Company, undated                                    | 53 : 47             |
| Disston, Henry, and Sons Incorporated, 1943 and 1950                                | 54 : 1              |
| Draeger Oxygen Apparatus Company, 1913  | 54 : 2              |
| Eimco Corp., undated  | 54 : 3              |
| Electric Storage Battery Company, 1940 and 1949                                     | 54 : 4              |
| Faber, A. W., Company, undated  | 54 : 5              |
| Fairbanks Morse, 1946, 1948, and 1958   | 54 : 6              |
| Federal-Mogul Bearing Service, 1956   | 54 : 7              |
| Flexible Steel Lacing Company, 1939   | 54 : 8              |
| Foley Manufacturing Company, undated  | 54 : 9              |
| Foster Wheeler Corp., 1950  | 54 : 10             |
| France Packing Company, undated   | 54 : 11             |
| Gardner-Denver Company, 1940-1954   | 54 : 12             |
| General Electric Company, 1925-1926, 1934, 1941-1942, 1944, 1946, 1960, and undated | 54 : 13-26          |
| Glenn-Roberts Company Inc., undated   | 54 : 27             |
| Goodman Manufacturing Company, undated  | 54 : 28             |
| Gould-National Batteries Incorporated, 1953-1957                                    | 54 : 29             |
| Gould Pumps Incorporated, 1962  | 54 : 30             |

| <b><u>Folder Title</u></b>                                     | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| Gould Storage Battery Corp., undated                           | 54 : 31                    |
| Greenlee Tool Company, undated                                 | 54 : 32                    |
| Hardinge Company, undated                                      | 54 : 33                    |
| Homelite Corp., undated  | 54 : 34                    |
| Honeywell, 1940  | 54 : 35                    |
| Ingersoll-Rand   | 54 : 36 - 55 : 9           |
| Air saws, 1946   | 54 : 36                    |
| Air tools, 1945  | 54 : 37                    |
| Class pre-compressors, 1932 and 1940                           | 54 : 38                    |
| Drills and sharpeners, 1914-1954                               | 54 : 39                    |
| Engines and motors, 1937, 1941, and 1953                       | 54 : 40                    |
| Furnace, 1940-1946   | 54 : 41                    |
| Heavy-duty compressor, 1940                                    | 55 : 1                     |
| Hoists, 1924-1925  | 55 : 2                     |
| Imperial air compressors, 1916 and 1928                        | 55 : 3                     |
| Pneumatic tools, 1940  | 55 : 4                     |
| Portable air compressors, 1955                                 | 55 : 5                     |
| Pumps, 1946  | 55 : 6                     |
| Type 30 compressor, 1950                                       | 55 : 7                     |
| Type 40 compressor, 1940-1949                                  | 55 : 8                     |
| Valves, 1960   | 55 : 9                     |
| International Harvester Company, 1954-1957                     | 55 : 10                    |
| Jacobsen Manufacturing Company, undated                        | 55 : 11                    |
| Johns-Manville, 1916 and undated                               | 55 : 12                    |
| Johnson Motors, undated  | 55 : 13                    |
| Joy Manufacturing Company, undated                             | 55 : 14-15                 |
| Keuffel and Esser Company, 1952                                | 55 : 16                    |
| Kohler Company, undated  | 55 : 17                    |
| Landis Machine Company, 1922                                   | 55 : 18                    |
| Leynor Company, undated  | 55 : 19                    |
| Lincoln Electric Company, 1958-1960                            | 55 : 20                    |
| Link-Belt Company, 1951  | 55 : 21                    |
| Logan Engineering Company, undated                             | 55 : 22                    |
| Mack Trucks, undated   | 55 : 23                    |
| Madison - Kipp Corp., 1950                                     | 55 : 24                    |
| Mall Tool Company, undated                                     | 55 : 25                    |
| Malsbury Company, undated                                      | 55 : 26                    |
| Mancha Storage Battery Locomotive Company, undated             | 55 : 27                    |
| Master Builders Company, 1955                                  | 55 : 28                    |
| McCormick-Deering, 1944  | 55 : 29                    |
| Morel, J. M., Company, undated                                 | 55 : 30                    |
| Morse Chain Company, undated                                   | 55 : 31                    |
| Norberg, 2-cycle diesel engines type NF, 1929                  | 55 : 32                    |
| Nordstom Valves Division, Rockwell Manufacturing Company, 1949 | 55 : 33                    |

| <u>Folder Title</u>                            | <u>Box : Folder</u> |
|--|---------------------|
| Oregon Saw Chain Corporation, 1952             | 55 : 34             |
| Pacific Metals Company, undated                | 55 : 35             |
| Philco Corp., 1945                             | 55 : 36             |
| Plymouth Cordage Company, 1941                 | 55 : 37             |
| Portable Electric Tools Incorporated, undated  | 55 : 38             |
| Ray Oil Burner Company, undated                | 55 : 39             |
| Reeves Pulley Company, 1944                    | 55 : 40             |
| Reynolds Metal Company, 1955                   | 55 : 41             |
| Saxe System Welded Connexion Units, 1948       | 55 : 42             |
| Sensory Inc., undated                          | 55 : 43             |
| Simonds Saw and Steel Company, 1945 and 1954   | 55 : 44             |
| Sullivan Machinery Company, undated            | 55 : 45             |
| Sunnen Products Company, undated               | 56 : 1              |
| Syntron Company, undated                       | 56 : 2              |
| Taylor Instruments Company, 1919               | 56 : 3              |
| Thermoking, 1979                               | 56 : 4              |
| Thor Power Tool Company, 1949                  | 56 : 5              |
| Threadwell Tap and Die Company, undated        | 56 : 6              |
| Timken roller Bearing Company, 1955 and 1965   | 56 : 7              |
| Viking Pump Company, undated                   | 56 : 8              |
| Wagner Electric Company, 1954                  | 56 : 9              |
| Westinghouse Electric, 1934, 1957, and undated | 56 : 10-13          |
| Weston Instruments, 1952                       | 56 : 14             |
| Wheelco Instruments Company, undated           | 56 : 15             |
| Wisconsin Motor Company, undated               | 56 : 16             |
| Worthington Corp., 1929 and undated            | 56 : 17             |

### **Subseries 7.7. Parts/Price Lists, 1900-1970 and undated. 1.5 cubic ft.**

#### **Subseries Scope and Content Summary**

This subseries contains parts and price lists for vendor products.

This subseries is arranged alphabetically by vendor name.

| <u>Folder Title</u>                     | <u>Box : Folder</u> |
|---|---------------------|
| Ace Drill Corporation, undated          | 56 : 18             |
| Acme Chain Corporation, undated         | 56 : 19             |
| Aeroqip Corp., 1969                     | 56 : 20             |
| Aerovox Wireless Corporation, 1929-1930 | 56 : 21             |
| Allis-Chalmers, 1942 and undated        | 56 : 22             |
| American Air Filter Company, 1942       | 56 : 23             |
| American Blower Corporation, 1956       | 56 : 24             |

| <u>Folder Title</u>   | <u>Box : Folder</u> |
|---|---------------------|
| American Brass Company, 1951 and 1961                             | 56 : 25             |
| American Electrical Heater Company, undated                       | 56 : 26             |
| American Rubber Manufacturing Company, 1910                       | 56 : 27             |
| Ames Harris Neville Company, 1911                                 | 56 : 28             |
| Arguto Oilless Bearing Company, undated                           | 56 : 29             |
| Arrow-Hart and Heggman Electric Company, undated                  | 56 : 30             |
| Ashurst Press Drill Company, ca. 1905                             | 56 : 31             |
| Atkins, E. C., Company, 1936                                      | 56 : 32             |
| Atlas Brass Foundry, no. 109, 1953                                | 56 : 33             |
| Atlas Copco Pacific Incorporated, undated                         | 56 : 34             |
| Atlas Deisel, 1953  | 56 : 35             |
| Automatic Sprinkler Corporation, 1939                             | 56 : 36             |
| Bashful Smith Blueprinter, 1925                                   | 56 : 37             |
| Beacon Falls Rubber Shoe Company, 1929-1930                       | 56 : 38             |
| Black and Decker, undated   | 56 : 39             |
| Bristol Company, 1955   | 56 : 40             |
| Brunswick-Balke-Collender Company, 1917-1918                      | 56 : 41             |
| Buchanan, C. G., Company, 1924                                    | 56 : 42             |
| Bullard, E. D., 1926  | 56 : 43             |
| Capitol Fire Equipment Company, 1949                              | 56 : 44             |
| Carborundum Company, 1954   | 56 : 45             |
| Cash, A. W., Valve Manufacturing Corp., undated                   | 56 : 46             |
| Chicago Blower Corp., undated                                     | 56 : 47             |
| Chicago Pneumatic Tool Company, 1927-1930 and 1952                | 56 : 48             |
| Cochise Machine Company, undated                                  | 56 : 49             |
| Columbia Electric Manufacturing Company, 1962                     | 56 : 50             |
| Columbia Steel Company, 1931                                      | 56 : 51             |
| Copco Pacific Ltd., 1953  | 56 : 52             |
| Crescent Belt Fastener Company, undated                           | 56 : 53             |
| Crocker, H. S., 1917  | 56 : 54             |
| Crucible Steel Company, 1912                                      | 56 : 55             |
| Cutler-Hammer Incorporated, 1955-1956                             | 56 : 56             |
| Denver Fire Clay Company, undated                                 | 56 : 57             |
| Denver Rock Drill Manufacturing Company, 1910, 1914, and undated  | 56 : 58             |
| Dick, R. and J., Company Incorporated, 1911                       | 56 : 59             |
| Dixon, Joseph, Crucible Company, 1907, 1912, 1914, 1916, and 1950 | 56 : 60             |
| Dorr Co., Inc., 1940  | 56 : 61             |
| Eimco Corp., 1955   | 56 : 62             |
| Emerson Electric Company, 1952                                    | 56 : 63             |
| Firth-Sterling, 1943-1944 and 1947                                | 56 : 64-65          |
| Gardner-Denver Company, 1939-1954                                 | 56 : 66             |
| Garlock Incorporated, 1961  | 56 : 67             |
| General Electric Company, 1925-1955                               | 56 : 68             |
| General Electric Motors, 1938-1948                                | 57 : 1              |

| <b><u>Folder Title</u></b>                             | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| General Machinery and Supply Company, 1917 and undated | 57 : 2                     |
| Goodman Manufacturing Company, 1939 and undated        | 57 : 3                     |
| Goodrich, B. F., Company, 1917-1918, 1927, and 1932    | 57 : 4-5                   |
| Graybar Manufacturing Company, undated                 | 57 : 6                     |
| Greensburg Machine Company, 1952-1954                  | 57 : 7                     |
| Hartzell Propeller Fan Company, undated                | 57 : 8                     |
| Hertner Electric Company, 1938                         | 57 : 9                     |
| Holman Bros., undated                                  | 57 : 10                    |
| Homelite Corporation, 1946 and undated                 | 57 : 11                    |
| Hyster Company, undated                                | 57 : 12                    |
| Ingersoll-Rand, 1911-1955                              | 57 : 13                    |
| Jackson, Byron, Company, 1938 and undated              | 57 : 14                    |
| Johnson Motors, undated                                | 57 : 15                    |
| Jorgensen, Earl M., Company, 1956 and 1964             | 57 : 16-17                 |
| Joy Manufacturing Company                              | 57 : 18-24                 |
| Cable fault finder, undated                            | 57 : 18                    |
| Drills, 1951 and undated                               | 57 : 19                    |
| Hoists, 1929, 1935, and undated                        | 57 : 20                    |
| Shovel loader, undated                                 | 57 : 21                    |
| Slushers, 1933 and undated                             | 57 : 22                    |
| Sullivan slushers, undated                             | 57 : 23                    |
| Sullivan turbinair motor, undated                      | 57 : 24                    |
| Keuffel and Esser Company, 1954                        | 57 : 25                    |
| Krogh Pump and Equipment Company, undated              | 57 : 26                    |
| Landis Company, undated                                | 57 : 27                    |
| Logan Engineering Company, undated                     | 57 : 28                    |
| Lug-All Winch-Hoists, undated                          | 57 : 29                    |
| Lukenheimer Company, 1938                              | 57 : 30                    |
| Mancha Storage Battery Locomotive Company, undated     | 57 : 31                    |
| Manzel Division, 1955 and undated                      | 57 : 32                    |
| McGill Manufacturing Company, undated                  | 57 : 33                    |
| Men's Black Rubber Surface, 1930                       | 57 : 34                    |
| Mine and Smelter Supply Company, undated               | 57 : 35                    |
| Mishawaka Woolen Manufacturing Company, 1922           | 57 : 36                    |
| Mitchell Lighting, 1940-1948                           | 57 : 37                    |
| Nutt, Buell W., Company, undated                       | 57 : 38                    |
| Patent Scaffolding Company, 1926 and undated           | 57 : 39                    |
| Porter, H. K., Company, 1956 and 1970                  | 57 : 40                    |
| Pratt and Whitney Company, 1921                        | 57 : 41                    |
| Quaker City Rubber Company, undated                    | 57 : 42                    |
| Rising, H. G., Company, undated                        | 57 : 43                    |
| Roebbling's, John A., Sons Company, 1914 and undated   | 57 : 44                    |
| Ryerson Steel Company, 1956-1957                       | 57 : 45                    |

| <u>Folder Title</u>                                 | <u>Box : Folder</u> |
|---|---------------------|
| SKF Service Bearings, 1937                          | 57 : 46             |
| Standard Underground Cable Company, 1915            | 57 : 47             |
| Starrett, L. S., Company, 1955                      | 57 : 48             |
| Stromberg-Carlson Company, undated                  | 57 : 49             |
| Sullivan Machinery Company, 1916, 1931, and undated | 57 : 50             |
| Sunbeam Lighting Company, 1951                      | 57 : 51             |
| SunTent and Henrix-Luebbert Company, 1927           | 57 : 52             |
| Thermoid Rubber Company, undated                    | 57 : 53             |
| Thompson Manufacturing Company, undated             | 57 : 54             |
| Thomson-Diggs Company, ca. 1900                     | 57 : 55             |
| Thor Power Tool Company, 1935 and undated           | 57 : 56             |
| Timken Roller Bearing Company, 1948                 | 57 : 57             |
| Tubbs Cordage Company, 1916                         | 57 : 58             |
| United States Rubber Company, 1927 and 1930         | 57 : 59             |
| Van Dorn Electric Tool Company, undated             | 57 : 60             |
| Victor Equipment Company, 1957                      | 57 : 61             |
| Waterbury Company, 1916                             | 57 : 62             |
| Weller Manufacturing Company, undated               | 57 : 63             |
| Western Rock Bit Manufacturing Company, undated     | 57 : 64             |
| Westinghouse, 1952-1954 and 1959                    | 57 : 65             |
| White Company, 1927                                 | 57 : 66             |
| Wilson Products Inc., 1950                          | 57 : 67             |
| Word Brothers, 1910                                 | 57 : 68             |
| Worthington Pump and Machinery Corp., 1927-1930     | 57 : 69             |
| Youngstown Sheet and Tube Company, 1930             | 57 : 70             |

### **Subseries 7.8. Product Information, 1948-1959 and undated. .125 cubic ft.**

#### **Subseries Scope and Content Summary**

This subseries contains general advertising information published by vendors about various products.

This subseries is arranged alphabetically by vendor name.

| <u>Folder Title</u>                         | <u>Box : Folder</u> |
|---|---------------------|
| Glenn-Roberts Company Incorporated, undated | 57 : 71             |
| Goodrich, B. F., Company, 1948              | 58 : 1              |
| Kaiser Aluminum, 1959                       | 58 : 2              |
| Master Builders Company, undated            | 58 : 3              |
| Storage Battery Locomotive, undated         | 58 : 4              |
| Tropical Paint and Oil Company, undated     | 58 : 5              |
| Upson-Walton, undated                       | 58 : 6              |

**Subseries 7.9. Product Samples, 1923 and undated. .125 cubic ft.****Subseries Scope and Content Summary**

This subseries contains vendor product samples sent to mines and individuals. Samples include asphalt shingles, insulation, and safety posters.

This subseries is arranged alphabetically by vendor name.

| <b><u>Folder Title</u></b>               | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| Bashful Smith Blueprinter, 1923          | 58 : 7                     |
| Dixon, Joseph, Crucible Company, undated | 58 : 8                     |
| General Electric insulation, undated     | 58 : 9                     |
| National Safety Council posters, undated | 58 : 10                    |
| United States Gypsum Company, undated    | 58 : 11                    |

**Subseries 7.10. Promotional Materials, 1893-1970 and undated. 3.25 cubic ft.****Subseries Scope and Content Summary**

This subseries contains vendor advertising material sent to mines and individuals. Where there is only one document per vendor, the documents have been filed together in alphabetical order by vendor name. Folders with miscellaneous vendor material are located at the beginning of each letter in the alphabet, before specific vendor names.

This subseries is arranged alphabetically by vendor name.

| <b><u>Folder Title</u></b>                         | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| Inventory, undated                                 | 58 : 12                    |
| A, 1941-1960 and undated                           | 58 : 13-14                 |
| Allis-Chalmers, 1959                               | 58 : 15                    |
| American Mining and Research Corp., undated        | 58 : 16                    |
| American Tool Works Company, 1913                  | 58 : 17                    |
| Arco Company, undated                              | 58 : 18                    |
| Armco Drainage and Metal Products Inc., 1958       | 58 : 19                    |
| Atlas Car and Manufacturing Company, undated       | 58 : 20                    |
| Atlas Copco, undated                               | 58 : 21                    |
| Automatic Sprinkler Corp., 1945-1946 and 1956-1957 | 58 : 22                    |
| B, 1936-1961                                       | 58 : 23                    |
| Baker-Raulang Company, undated                     | 58 : 24                    |
| Barber-Greene, undated                             | 58 : 25                    |
| Barclay, Andrew, Sons and Company, undated         | 58 : 26                    |
| Bearing Inspection Incorporated, undated           | 58 : 27                    |
| Bemis Bros. Bag Company, 1922                      | 58 : 28                    |
| Blackhawk Industrial Products Company, 1963        | 58 : 29                    |
| Boston Insulated Wire and Cable Company, undated   | 58 : 30                    |

| <b><u>Folder Title</u></b>                             | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| Brady, W. H., and Company, 1949                        | 58 : 31                    |
| Broderick and Bascom Rope Company, 1943                | 58 : 32                    |
| Brown Instrument Company, 1929 and 1930                | 58 : 33                    |
| Buff and Buff Manufacturing Company, undated           | 58 : 34                    |
| Bullard, E. B., Company, undated                       | 58 : 35                    |
| Busch-Sulzir Bros. Diesel Engine Company, 1914         | 58 : 36                    |
| Byers, A. M., Company, undated                         | 58 : 37                    |
| C, 1947-1963 and undated                               | 58 : 38                    |
| Capitol Fire and Equipment Company, 1949               | 58 : 39                    |
| Carborundum Company, undated                           | 58 : 40                    |
| Celanese Corp., 1959                                   | 58 : 41                    |
| Chase, W. M., Company, 1954                            | 58 : 42                    |
| Champion Spark Plug Company, undated                   | 58 : 43                    |
| Climax Molybdenum Company, undated                     | 58 : 44                    |
| Clover Leaf Machine Company, ca. 1909                  | 58 : 45                    |
| Clyde Iron Works, undated                              | 58 : 46                    |
| Cochran Corp., 1953                                    | 58 : 47                    |
| Combustion Engineering Corp., 1923                     | 58 : 48                    |
| Continental-Diamond Fiber Company, undated             | 58 : 49                    |
| Crane Company, 1931 and undated                        | 58 : 50                    |
| Crucible Steel Company, undated                        | 59 : 1                     |
| D - F, 1905-1961 and undated                           | 59 : 2                     |
| Denver Equipment Company, 1944, 1960, and undated      | 59 : 3                     |
| Denver Hydro Company, ca. 1916                         | 59 : 4                     |
| Detroit Graphite Company, undated                      | 59 : 5                     |
| Dick, R. and J., undated                               | 59 : 6                     |
| Dieflex Varnish Tubing Products, 1949                  | 59 : 7                     |
| Dow Corning, 1949, 1959, and 1967                      | 59 : 8                     |
| Draiger Oxygen Apparatus Company, 1914 and undated     | 59 : 9                     |
| Dreses Machine Tool Company, undated                   | 59 : 10                    |
| Dunmore Company, undated                               | 59 : 11                    |
| Dupont, 1964   | 59 : 12                    |
| Dynomatic Corp., 1952                                  | 59 : 13                    |
| Edison, Thomas A., Incorporated, 1937 and undated      | 59 : 14                    |
| Edwards Wire Rope, undated                             | 59: 15-16                  |
| Electric Controller and Manufacturing Company, undated | 59 : 17                    |
| Electric Weighing Company, undated                     | 59 : 18                    |
| Elwell-Parker Electric Company, undated                | 59 : 19                    |
| Excelsior Drill and Manufacturing Company, ca. 1910    | 59 : 20                    |
| Fairbanks Morse and Company, 1915 and 1956             | 59 : 21                    |
| Falk Corp., 1924 and 1948                              | 59 : 22                    |
| Fansteel Products Company Incorporated, undated        | 59 : 23                    |
| Farquhar, A. B., Company, undated                      | 59 : 24                    |

| <b><u>Folder Title</u></b>                             | <b><u>Box : Folder</u></b> |
|--|----------------------------|
| Federal Electric Company, 1924                         | 59 : 25                    |
| Fisher and Norris, 1953                                | 59 : 26                    |
| Foxboro Instrumentation, undated                       | 59 : 27                    |
| Fuller Lehigh, 1928-1930 and undated                   | 59 : 28                    |
| Gang, W. M. E., Company, undated                       | 59 : 29                    |
| Gardner-Denver, 1953-1962                              | 59 : 30                    |
| Garlock Incorporated, undated                          | 59 : 31                    |
| General Cable, 1931-1964                               | 59 : 32                    |
| General Electric                                       | 59 : 33-34                 |
| 1912, 1937, 1950-1955, and undated                     | 59 : 33                    |
| Comparators and calculators, 1951-1964 and undated     | 59 : 34                    |
| Gifford-Wood Company, undated                          | 59 : 35                    |
| Glessner, A. J., Company, undated                      | 59 : 36                    |
| Goldak Company, undated                                | 59 : 37                    |
| Golden-Anderson Valve Specialty Company, undated       | 59 : 38                    |
| Goodrich, B. F., Company, undated                      | 59 : 39                    |
| Goodyear Rubber Company, undated                       | 59 : 40                    |
| Greenlee Bros. and Company, undated                    | 59 : 41                    |
| Grinnell Company, 1958                                 | 59 : 42                    |
| H, 1952-1965 and undated                               | 59 : 43                    |
| Handy and Harman Company, undated                      | 59 : 44                    |
| Hanson-Vanwinkle-Munning Company, undated              | 59 : 45                    |
| Harron, Rickard, and McCone, undated                   | 59 : 46                    |
| Hays Corp., undated                                    | 59 : 47                    |
| Hazard Insullated Wire Works, undated                  | 59 : 48                    |
| Hertner Electric Company, undated                      | 59 : 49                    |
| Hobart Motor Generator Corporation, undated            | 59 : 50                    |
| Holophane Company Inc., 1929-1932 and undated          | 59 : 51-52                 |
| Houghton, E. F., Company, undated                      | 59 : 53                    |
| I - K, 1947-1963 and undated                           | 59 : 54                    |
| Ingersoll-Rand, 1913, 1960-1967, and undated           | 60 : 1                     |
| International Nickel Company, 1930, 1965, and undated  | 60 : 2                     |
| Jeffrey Manufacturing Company, 1935, 1938, and undated | 60 : 3                     |
| Jerguson Gauge and Valve Company, 1953 and 1958        | 60 : 4                     |
| Jewell Steel and Malleable Company, 1917               | 60 : 5                     |
| Johns-Manville, undated                                | 60 : 6                     |
| Jorgenson, Earl M., Company, undated                   | 60 : 7                     |
| King, H. J. H., and Company, undated                   | 60 : 8                     |
| King, Julius, Optical Company, undated                 | 60 : 9                     |
| L, 1935-1960 and undated                               | 60 : 10                    |
| Landis Tool Company, undated                           | 60 : 11                    |
| Lansing Company, 1917                                  | 60 : 12                    |
| Lansinger, O. B., and Company, undated                 | 60 : 13                    |
| Lincoln Electric Company, undated                      | 60 : 14                    |

| <u>Folder Title</u>   | <u>Box : Folder</u> |
|---|---------------------|
| Lobdell Car Wheel Company, 1910, 1912, and 1913             | 60 : 15             |
| Logan Engineering Company, undated                          | 60 : 16             |
| Longyear, E. J., Company, undated                           | 60 : 17             |
| M- O, 1952-1963 and undated                                 | 60 : 18             |
| Malsbury Manufacturing Company, undated                     | 60 : 19             |
| Mancha Storage Battery Locomotive Company, undated          | 60 : 20             |
| Mine and Smelter Supply Company, undated                    | 60 : 21             |
| Mine Safety Appliances Company, 1923, 1928, and undated     | 60 : 22             |
| Mishawaka Manufacturing Company, undated                    | 60 : 23             |
| Morse Chain Company, ca. 1912-1913, 1915, and undated       | 60 : 24             |
| Motor Generator Corp., undated                              | 60 : 25             |
| National Medical Research Company, undated                  | 60 : 26             |
| New York Belting and Packing Company, undated               | 60 : 27             |
| Nibco Inc., 1970  | 60 : 28             |
| Norberg Manufacturing Company, 1934 and undated             | 60 : 29             |
| Norwalk Iron Works Company, 1893                            | 60 : 30             |
| Okonite Company, 1953                                       | 60 : 31             |
| Oliver Continuous Filter Company, 1919                      | 60 : 32             |
| Orenstein-Arthur Coppel Company, undated                    | 60 : 33             |
| P-R, 1945-1976 and undated                                  | 60 : 34             |
| Pacific Slushing Scrappers, 1945                            | 60 : 35             |
| Patent Scaffolding Company, undated                         | 60 : 36             |
| Patterson-Kelley Company, 1969                              | 60 : 37             |
| Pedrick and Ayer Company, undated                           | 60 : 38             |
| Pittsburgh Spring and Steel Company, 1911                   | 60 : 39             |
| Pyroil Company Mfgs., undated                               | 60 : 40             |
| Quaker City Rubber Company, undated                         | 60 : 41             |
| Quincy, Manchester, Sergent Company, undated                | 60 : 42             |
| Quinn Oil Burner and Torch Company, ca. 1919                | 60 : 43             |
| Ralph's Pugh Company, Inc., undated                         | 60 : 44             |
| Robbins and Meyers Inc., undated                            | 60 : 45             |
| Robins Conveying Belt Company, 1912                         | 60 : 46             |
| Rochester Ropes, Inc., 1946                                 | 60 : 47             |
| Rockbestos, undated   | 60 : 48             |
| Rockwell Manufacturing Company, 1958 and undated            | 60 : 49             |
| Roebbling's, John A., Sons Company, 1920, 1929, and undated | 60 : 50             |
| Sa - Sp, 1959-1965  | 60 : 51             |
| SKF Industries Inc., undated                                | 60 : 52             |
| Safety Equipment Service Company, ca. 1920 and undated      | 60 : 53             |
| Sandvik Cormorant, 1951 and undated                         | 60 : 54             |
| Simonds Saw and Steel Company, 1942                         | 60 : 55             |
| Simplex Wire and Cable Company, undated                     | 60 : 56             |
| Skil Corporation, 1959                                      | 60 : 57             |

| <b><u>Folder Title</u></b>                        | <b><u>Box : Folder</u></b> |
|---|----------------------------|
| St - Sy, 1952-1959                                | 60 : 58                    |
| Steel Improvement and Forge Company, 1950         | 60 : 59                    |
| Stoco (safety goggles), undated                   | 60 : 60                    |
| Stonhard Company, undated                         | 60 : 61                    |
| Sullivan Machinery Company, 1931-1932             | 60 : 62                    |
| T, 1944-1963                                      | 60 : 63                    |
| Thomson-Diggs Company, undated                    | 60 : 64                    |
| Timken Roller Bearing Company, 1948-1950          | 60 : 65                    |
| Trent Engineering Company, undated                | 60 : 66                    |
| Tube Turns Incorporated, 1952                     | 60 : 67                    |
| Tubular Structures Corporation, 1956              | 60 : 68                    |
| U - Z, 1955-1962                                  | 60 : 69                    |
| Unit Construction Company, undated                | 61 : 1                     |
| United States Gauge Company, undated              | 61 : 2                     |
| United Steel Company, undated                     | 61 : 3                     |
| Van Nostrand, D., Company, undated                | 61 : 4                     |
| Wagner Electric Corporation, undated              | 61 : 5                     |
| Waldes Kohinoor Inc., 1951                        | 61 : 6                     |
| Watt Mining Car Wheel Company, undated            | 61 : 7                     |
| Western Alloy and Tool Steel Company, undated     | 61 : 8                     |
| Western Precipitation Corporation, 1952           | 61 : 9                     |
| Westinghouse, 1935-1948                           | 61 : 10                    |
| Willson, T. A., and Company Incorporated, undated | 61 : 11                    |
| Worthington Pump and Machinery Company, 1928      | 61 : 12                    |

**Series 8. Oversize Material. 17.5 cubic ft.**

This series consists of oversize material that was removed from the collection and filed separately in oversize boxes. Oversize material is located in boxes 62-98.

**Series 9. Restricted Material. .25 cubic ft.**

This series consists of documents that are permanently restricted and unavailable for public use. Restricted material is located in box 99 of the collection.