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Guide to the Coxe Brothers Collection

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Table of Contents

Collection Overview

Repository:	Archives Center, National Museum of American History
Title:	Coxe Brothers Collection
Date:	1830-1997
Identifier:	NMAH.AC.1002
Creator:	Coxe Brothers and Company, Inc. (Drifton, Pennsylvania) National Museum of American History (U.S.). Division of History of Technology (Collector) National Museum of American History (U.S.). Division of Work and Industry (Collector) National Museum of American History (U.S.). Division of Extractive Industries (Collector)
Extent:	100 Cubic feet (55 boxes, 107 map folders)
Language:	English .
Summary:	Collection documents the Coxe Brothers and Company Inc., an anthracite coal producer in Pennsylvania.

Administrative Information

Acquisition Information

The collection was donated by Tench Coxe Properties through Daniel M. Coxe, Senior Trustee to the Division of Extractive Industries, National Museum of History and Technology (now the National Museum of American History). The exact date of the acquisition is unknown, but it is presumed to be pre-1978.

Provenance

Mining curator John N. Hoffman evaluated the Coxe Collection in 1966. After some negotiations, Hoffman acquired a portion of the Coxe Brothers holdings for the Museum of History of Technology (now National Museum of American History). The Historical Society of Pennsylvania agreed to take the remaining materials.

The collection was transferred by the Division of Work and Industry to the Archives Center in 2007.

Related Materials

Materials at Other Organizations

Historical Society of Pennsylvania

Coxe Family Papers, 1638-1970 (inclusive), 1730-1900 (bulk)

The collection is broken into three major series of papers. They include the Tench Coxe section, 1638, 1776-1824, 1879; the Charles Sidney Coxe, Edward Sidney Coxe, and Alexander Sidney Coxe legal papers section, circ 1810-1879; and Third Party Papers, circa 1722-1815. The Tench Coxe Section

is broken down further into four series: Volumes and printed materials; Correspondence and general papers; Essays, addresses and resource material; and Bills and receipts

Coxe Family Mining Papers, 1774-1968

The Coxe family mining papers document the history of what once was the largest independent anthracite coal producer in the United States

The William J. Wilgus Collection, 1915-1916

Documents the valuation conducted by William Wilgus during 1915 and 1916 on land and property either owned or leased by Coxe Brothers and Company, Inc. Coxe Brothers was a company that mined and leased anthracite coal lands in northeastern Pennsylvania.

Processing Information

Collection processed by Alison Oswald, archivist, 2022. Additional processing assistance in the form of extensive notes and research was provided by Eric Nystrom, a historian specializing in the history of American engineering and technology, especially late 19th and early 20th century mining. Researcher Dan Marnell provided description information for the glass [plate negatives, 2022.

Preferred Citation

Coxe Brothers Collection, Archives Center, National Museum of American History.

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Historical

The Coxe family's connection with Pennsylvania's anthracite coal region is rooted in the prescience of the statesman, author and land speculator Tench Coxe. Recognizing the significance anthracite would play in the development of the newly founded Republic, Tench purchased nearly 80,000 acres of land surrounding outcroppings of anthracite coal in Carbon, Luzerne and Schuylkill counties. He hoped that future generations of the family would profit from the land when the anthracite industry came of age. Indeed, his purchase would secure wealth for the Coxe family and all their mining enterprises well into the twentieth century.

Tench Coxe was born in Philadelphia on May 22, 1755, to William and Mary Francis Coxe, members of a family with a long tradition of land ownership. Tench's great-grandfather, Dr. Daniel Coxe, personal physician to King Charles II and Queen Anne of England, held large colonial land grants in New Jersey and the Carolinas. Though he never visited his property in the new world, Dr. Coxe would eventually acquire the title of Governor of West Jersey. Upon his death, he passed the whole of his North American land holdings to his son, Colonel Daniel Coxe. The Colonel was the first Coxe to leave England for life in America, settling in Burlington, New Jersey in 1702. Inheriting a passion for land, Colonel Coxe distinguished himself by publishing "A Description of the Provinces of Carolana," which in 1722 proposed one of the earliest plans for political union of the British colonies of North America. Tench Coxe explored various career options in his struggle to establish his name in the United States. After considering a profession in law, Tench chose instead to join his father's import-export firm, Coxe & Furman, in 1776. The renamed firm of Coxe, Furman & Coxe operated for fourteen years but was dissolved by mutual agreement after experiencing financial difficulties.

Soon after, Tench and a business partner from Boston established a new commercial enterprise under the name of Coxe & Frazier. After several prosperous years, this firm also disbanded, freeing Tench to pursue a career in public service. Tench's Loyalist sympathies during the American Revolution complicated his political ambitions. Following British General Howe's evacuation of Philadelphia in 1778, the Supreme Executive Council of Pennsylvania accused Tench of treason for collaborating with the enemy. Although he swore an oath of allegiance to the United States of America, his Tory leanings would be used repeatedly to undermine his political influence. Despite his Loyalist past, Tench retained the respect of his patriot neighbors. He was selected as the sole Pennsylvania delegate to the Annapolis Convention in 1786, and then selected to the Second Continental Congress in 1788. After the war, Tench became an advocate for the Whig Party, although his politics were often in direct support of the Federalist cause. This was apparent from a pamphlet he wrote in 1788 titled, "An Examination of the Constitution of the United States," which revealed his strong support for the ratification of the United States Constitution.

With the new government in place, Tench received a variety of appointments to public office under George Washington, Alexander Hamilton and Thomas Jefferson. He was named Assistant Secretary of the Treasury in 1790, Commissioner of the Revenue of the United States in 1792 and Secretary of the Pennsylvania Land Office in 1800. After switching his affiliation to the Republican Party in 1803, Tench accepted an appointment from Thomas Jefferson as Purveyor of the Public Supplies, an office that he held until 1812. The duties of his various posts ultimately made Tench an authority on the industrial development of the nation. In 1794 he published a collection of essays under the title, "A View of the United States of America," in which he contemplated the development of commerce and manufacturing in America. These essays reveal his early awareness of coal in Pennsylvania, as he remarked:

"All our coal has hitherto been accidentally found on the surface of the earth or discovered in the digging of common cellars or wells; so that when our wood-fuel shall become scarce, and the European methods of boring shall be skillfully pursued, there can be no doubt of our finding it in many other places."

Anthracite coal was discovered around the year 1769 in Pennsylvania. It is the hardest of the known types of coal, with an average 85%-95% carbon content, as compared to the 45%- 85% range of the bituminous coal found in the western part of the state. The high carbon content in anthracite allows it to burn at much higher temperatures than bituminous coal and with less smoke, making it an ideal fuel for home heating. The only anthracite deposits of commercial value in the United States are located within four major fields in Eastern Pennsylvania and are confined to an area of 3,300 square miles. These four coalfields are commonly referred to as the Northern, Eastern-Middle, Western-Middle and Southern fields. Tench Coxe's awareness of the promise of anthracite coal, coupled with his tenure in the Pennsylvania land office and a family tradition of land speculation spurred him in 1790 to begin purchasing promising acreage. Though he acquired land throughout the country, he particularly focused on land in Carbon, Luzerne and Schuylkill counties in Northeastern Pennsylvania, which he believed held vast underground seams of coal.

Despite large land holdings, Tench Coxe lived most of his life in debt thanks to litigation, tax problems and complications with business partners. Realizing that he would not be able to develop the property in his lifetime, Tench worked diligently to retain the property he believed was enriched with valuable mineral deposits, in hopes that his dreams would be realized by future generations of Coxes. Tench's son, Charles Sidney Coxe, would inherit from his father a passion for land ownership and for the untapped potential of the anthracite coal region. When Tench Coxe died on July 16, 1824, he left Charles sole executor of his estate, which was composed of approximately 1.5 million acres in eight states. Born July 31, 1791, Charles Sidney Coxe was the sixth of ten children of Tench and Rebecca Coxe. Educated at the University of Pennsylvania and Brown University, Charles was admitted to the Philadelphia Bar in 1812. Charles eventually served as District Attorney of Philadelphia and associate judge of the District Court of Philadelphia, but he remained infatuated by his father's vision.

Charles devoted his life to keeping together the large coal properties handed down by Tench to his surviving children. This monumental task involved paying annual taxes on completely unproductive land, fighting a never-ending battle against squatters and timber thieves, and litigating an endless array of boundary disputes. Charles and his family routinely spent their summer months in Drifton, Luzerne County a location that would eventually become synonymous with the Coxe name. His son Eckley Brinton Coxe gained his first experience in the coalfields at Drifton, accompanying his father as he traced the geology of the area in search of coal veins. Besides introducing Eckley to the "family business", the surveys gave Charles invaluable detailed knowledge that he used to preserve the coal

deposits on his family's property. Deposits that he discovered comprised nearly half of the entire Eastern-Middle field. Even as his knowledge grew, however, Charles was unable to develop the land he retained. He saw the pioneers of anthracite mining lose fortunes as the mining technology of the day struggled to catch up with the new demands.

Regular shipments of anthracite began in the 1820s as canals opened the coal regions of Pennsylvania to markets in Philadelphia. The demand for anthracite remained relatively low during the early years of the industry, but as markets developed and demand increased, railroads began to compete in the trade and would eventually come to dominate as carriers to all of the major markets. As the problems of mining and transporting coal and developing a market for it were worked out, the demand for "hard coal" grew substantially. Coal sales increased from 364,384 tons in 1840 to 3,358,890 tons in 1850 and would steadily increase throughout the century to levels exceeding 40 million tons annually. Charles Coxe's witness to the inception of this industry unquestionably spurred his desire to realize his father's dream, but like Tench, he too would have to defer to his sons.

Charles S. Coxe had married Ann Maria Brinton in 1832 and together they were the parents of seven children, Brinton, Rebecca, Anna Brinton, Eckley Brinton, Henry Brinton, Charles Brinton and Alexander Brinton. The eldest son, Brinton Coxe, followed the career of his father, establishing himself in the legal profession. Brinton was a renowned lawyer and writer of constitutional law and served with prestige as president of the Historical Society of Pennsylvania from 1884 until his death. The remaining four sons would distinguish themselves in the coal business under the guidance of their brother, Eckley B. Coxe. Born in Philadelphia on June 4, 1839, Eckley B. Coxe entered into a family in which his calling was clear. His aptitude for the calling, however, would astonish the entire industry. Eckley's earl surveying excursions with his father introduced him to the mines, machines and collieries of the anthracite industry. His exposure to local miners must also have made a lasting impression, as his knowledge of their customs and sympathy toward their circumstances proved to be one of his greatest assets as an employer.

Eckley Coxe's formal education began in 1854 at the University of Pennsylvania. Although focusing his studies in chemistry and physics, he took additional courses in French and bookkeeping after receiving his degree in 1858. After graduation, Eckley briefly returned to the coalfields where he was engaged in topographic geological work on his family's land, learning a skill that would later earn him a commission to the Second Geological Survey of Pennsylvania. In 1860 Eckley went abroad to polish his technical education, spending two years in Paris at the Ecole Nationale des Mines, one year at the Bergakademie in Freiberg, Germany and nearly two years on a tour studying the practical operations of European mines. Armed with both practical and theoretical knowledge of his craft, Eckley B. Coxe returned to America and embarked on the mission for which his entire life had prepared him. On January 30, 1865, Eckley, his brothers Alexander, Charles and Henry and a cousin, Franklin Coxe, formed the co-partnership Coxe Brothers and Company.

The company began with a combined capital of $120,000, with Eckley investing $40,000 and the other partners investing $20,000 each. The firm was formed for the exclusive purpose of mining and selling coal from the Drifton property, which they leased from the Estate of Tench Coxe. The Estate had begun leasing property as early as 1852 to various companies, which paid royalties to the estate in return for the coal they mined. Coxe Brothers would operate under a similar lease, but they would, in a sense, be paying royalties to themselves as both partners and heirs. Coxe Brothers and Company began operations in Drifton in February 1865, sending their first shipment of coal to market the following June. Once the operations at Drifton were fully tested and proved successful, Eckley moved to consolidate control over all of his family's land, in order to keep all the mining profits in the family.

By 1879 Coxe Brothers and Company had opened collieries at Deringer, Gowen and Tomhicken, adding Beaver Meadow Colliery two years later. The firm's success exceeded all of the partners' expectations, reaching well beyond the goals set forth in the original Articles of Copartnership. Charles B. Coxe died in 1873 and Franklin Coxe retired from the firm in 1878. In 1885, the remaining partners agreed to extend the life of the firm indefinitely and operate for the purpose of developing the land belonging to the Estate of Tench Coxe.

Even more important to the success of the Coxe family mining interests was the organization of the Cross Creek Coal Company in October 1882. The officers of this company included the three remaining partners of Coxe Brothers and Company, along with a Philadelphia partner, J. Brinton White and the Coxe's first cousin Arthur McClellan, brother of the Civil War General, George B. McClellan. Cross Creek Coal Company took over all of the mining operations on the Estate lands, led by Eckley B. Coxe, president of both companies. Coxe Brothers transferred the mining

rights to the Coxe property to the Cross Creek Coal Company but retained control of the Coxe collieries where the freshly mined coal was prepared.

Eckley's shrewd and aggressive management of his family's land proved successful. When his father, Charles S. Coxe died in 1879, Eckley assumed an even more direct role in the management of the property. In addition to receiving the inheritance of his grandfather's land, he, along with his three surviving brothers, became executors of the Estate of Tench Coxe. By 1886, Eckley had brought nearly 3/4ths of his family's property under his direct control. Coal shipments from these properties reached an astounding 1.5 million tons in 1890, a vast improvement from the 27,000 tons sold in its inaugural year. Coxe Brothers and Company did not limit itself to mining operations on the lands of the Estate of Tench Coxe. By 1889, the firm was also leasing lands from the Lehigh Valley Railroad Company, West Buck Mountain Coal Company, Anspach & Stanton, the Black Creek Coal Company, and the Central Coal Company. In total Coxe Brothers was operating roughly 30,000 acres of coal property.

Just over twenty years after its inception, Coxe Brothers and Company established itself as the largest individual anthracite producer that was not associated with a major railroad. This distinction, however, made them an obvious target for the expanding railroad industry. Realizing the value of anthracite as freight, railroads entered into a land scramble throughout the region, securing their coal freight by purchasing it before it was mined. This point is perhaps best illustrated by the actions of the Pennsylvania Railroad, which in 1872 purchased 28,000 acres in the anthracite fields. Of the roughly 38 million tons of coal produced in 1888, 29 million had been mined by coal companies linked with the railroads.

The remaining independent producers were forced to negotiate with the railroads to have their coal shipped to market. It was the practice of the railroads to charge exorbitant fees to the independent producers, which in effect reduced the railroads' competition in the coal sale yards. In order to survive, many independent producers were either forced to sell their coal directly to the railroads at the mines or to sell their operation completely to the railroad. Eckley B. Coxe, however, pursued an altogether different means of survival. In 1888, the partners of Coxe Brothers and Company petitioned the Interstate Commerce Commission for relief from the Lehigh Valley Railroad Company (LVRR). They argued that the Lehigh Valley Coal Company (LVCC), entirely owned by the LVRR, sold coal at a price that did not net them sufficient funds to pay the fees that were being charged to Coxe Brothers and Company for the same shipping service. The railroads were willing to operate their coal companies at a loss, since they were more than able to absorb the losses with increased railroad freight. As a result of discriminating between the companies it owned and independent operators, the LVRR was found in violation of federal law and was forced to lower its rates in 1891.

The lengthy trial, however, inspired Eckley to build his own railroad, which began operations in 1891. Incorporated as the Delaware, Susquehanna & Schuylkill Railroad, its tracks linked all of the Coxe collieries with connections to most of the major rail lines in the region. With sixty miles of single gauge track, twenty-nine locomotives and 1,500 coal-cars, they forced the railroads to compete for the immense freight being produced by their coal companies. By compelling his adversaries to come to fair terms with victories in both the courts and in the coalfields, Eckley succeeded in securing Coxe Brothers' position as the largest independent anthracite producers in Pennsylvania. In June 1893, Ezra B. Ely and Eckley Brinton Coxe, Jr. were admitted to the firm of Coxe Brothers and Company. Ezra, a long-time business associate and general sales agent of Coxe Brothers and Company and Eckley, Jr., son of the deceased Charles Brinton Coxe, joined the firm just weeks prior to the establishment of two more Coxe mining enterprises.

On June 19,Coxe Brothers and Company, Incorporated was organized as the selling agency for Coxe coal and purchased from the firm their supply headquarters in New York, Boston, Buffalo, Chicago, Milwaukee and Philadelphia. This same day also saw the formation of the Coxe Iron Manufacturing Company, which took control of the firm's machine shops in Drifton. In addition to being responsible for the construction and repair of Coxe mines and railroads, this company also filled large outside orders for machinery. It was in these machine shops that Eckley proved himself as one of the most brilliant mining engineers of the day. The United States Patent Office records 111 patents either issued directly to Eckley B. Coxe or as a supervisor of employees who worked under his instructions at the Drifton Shops. Seventy-three of these patents pertained to the details of the Coxe Mechanical Stoker, which introduced the first practical means of burning small sizes of anthracite coal. This innovation put an end to the

financial loss associated with large culm banks of fine sized coal that plagued collieries as waste. The subject of waste seems to have driven the business and personal endeavors of Eckley B. Coxe.

As a founder and future president of the American Institute of Mining Engineers, Eckley was appointed to chair a committee to investigate waste in coal mining, which he did thoroughly. His report outlined the waste associated with the extraction, preparation and transportation of anthracite coal. To combat waste in the preparation of coal, Eckley designed and erected the world's first coal breaker made of iron and steel. This fireproof structure, used to separate coal into uniform sized pieces, was also equipped with numerous innovative labor-saving devices, including an automated slate picking chute, improved coal jigs, corrugated rollers for breaking coal and electric lighting for nighttime operations. The breaker at Drifton stood as one of the most revolutionary coal structures in the region until Eckley erected an even more magnificent iron and steel coal breaker at Oneida. In creating more economical methods for preparing and consuming coal, Eckley helped boost the anthracite industry to remarkable levels. Although he secured many of his inventions by patent, Eckley licensed his improvements to many coal operators and created an agency to help install and maintain the complicated machinery at the various collieries. This service reflected Eckley's conviction that the mutual exchange of knowledge in engineering matters would benefit the whole anthracite industry, and in turn would benefit each individual company. That attitude appears to have carried over in his interactions with consumers, as is evidenced by a paper Eckley read before a meeting of the New England Cotton Manufactures, acknowledging that, "It may seem curious that a person whose life has been spent in mining and marketing coal should appear before this association to discuss the economical production of steam, involving, as it does, either the use of less fuel or fuel of less value. But I am convinced that the more valuable a ton of coal becomes to our consumers, the more in the end will be our profit from it."

Eckley recognized, however, that the increased demand for anthracite would subvert his battle against waste. The abundance of coal beds in the region gave rise to numerous operators who often sacrificed long-term efficiency for low-overhead and quick profits. Using cheap machinery and incompetent labor, these operators mined only the most valuable and easily available veins, leaving large amounts to waste. Mining practices like these were prohibited in many European countries, where the right to mine had to be obtained from the government. In many countries, mining operations were required to work to full capacity, so long as they did not compromise the safety of the men or the mine. Having witnessed European laws in practice, Eckley was an advocate for comparable laws in this country, calling for a well-educated corps of experts to inspect the mines and manufactories to ensure the protection of life and property. In later years, mining foremen would be required by Pennsylvania law to pass an extensive exam, demonstrating not only practical experience but also specific knowledge of the principles of ventilation. Eckley was also aware that mining legislation alone could not prevent careless miners.

As an employer of skilled labor and a trustee of Lehigh University, Eckley gave a great deal of thought to the issue of technical education. In concluding a paper titled, "Mining Legislation," read at the general meeting of the American Social Science Association in 1870, Eckley insisted "upon the importance of establishing schools for master miners, in which anyone who works in the mines could, while supporting himself by his labor, receive sufficient instruction in his business to qualify him to direct intelligently the underground workings of a mine." His exposure to the finest technical institutions of Europe made Eckley keenly aware of the shortcomings in America of giving its students an equivalent education. In order to prevent future mining foremen and superintendents to grow up without a theoretical knowledge of their work, Eckley established the Industrial School for Miners and Mechanics in Drifton. The school opened its doors on May 7, 1879, providing young men employed by Coxe Brothers and Company with an opportunity to educate themselves outside of working hours. This unique opportunity gave the young miners a chance to combine the scientific knowledge of various disciplines, including trigonometry, mechanical drawing, physics, mineralogy and drafting with the experience gained in their daily toil. Classes were held free of charge at night and during idle days in the mines in a two-story building erected by Eckley Coxe, known as Cross Creek Hall.

In addition to comfortably seating 1,000 people and housing a library and reading room for the residents of Drifton, it also furnished classrooms for the eleven students who enrolled in the school during its first year. The school succeeded in delivering a first-class technical education to its students for nearly ten years before a fire completely destroyed the Hall in 1888. Five years later the school reorganized under the name Miners and Mechanics' Institute of Freeland, Pennsylvania, which soon after changed its name to the Mining and Mechanical Institute of Freeland.

The school continues to operate today as the MMI Preparatory School and stands as a testimonial to Eckley's achievements in promoting technical education.

Eckley and the Coxe family gave generously to the people of the anthracite fields. They donated estate lands for churches and cemeteries of various denominations, as well as schools, parks and baseball fields. Eckley also established a scholarship prize of $300 for the best student at his mining school, which would continue for the term of four years if the recipient chose to pursue higher education. Eckley made a point, however, not to confuse business with charity and confined his donations predominantly to gifts of opportunity and knowledge. But, as the people of Drifton affirmed during the opening ceremonies for Cross Creek Hall, "For relieving those who have been disabled by accidents, providing for the widows and orphans, visiting our homes in times of sickness, taking an interest in the education and welfare of our children and providing a free library, to promote our intellectual culture you are worthy of the highest praise we can bestow." One of the most deplorable circumstances in the coalfields was the scarcity of adequate hospitals. Nineteenth century anthracite mining was extremely dangerous, with miners facing hazards from explosions, suffocation, cave-ins and floods.

By 1881, Coxe Brothers and Company employed 1,171 people, who endured their share of accidents, despite the sound mining methods initiated by the company. The closest hospital was in Bethlehem, which was over two hours away. To remedy the situation, at least for his own workers, Eckley established the Drifton Hospital on September 1, 1882, for the benefit of Coxe Brothers and Company employees. The building could accommodate thirty-five patients and in its first sixteen months of operation treated eighty-five people. In later years, a state hospital at Hazleton was built for the miners of the Eastern-Middle field. Eckley was an obvious candidate for the Board of Commissioners of the state hospital, an appointment he received in 1891.

The company also maintained an accident fund for its employees. In the event a Coxe Brothers employee died, the fund contributed fifty dollars to the family to defray their funeral expenses. It also provided the widows of employees with three dollars a week for one year, allowing an additional dollar per week for each child less than twelve years of age. In cases where the employees were disabled, men were given five dollars a week until they were able to perform light work.

In all his endeavors, Eckley B. Coxe held himself to a high standard of honor. His standard of personal integrity created unusual circumstances when he was elected to the Pennsylvania State Senate in November 1880. Elected a Democrat from the 26th senatorial district, comprised of parts of Luzerne and Lackawanna counties, he declined to take the oath prescribed by the state constitution, thereby forfeiting the office. In an address to his constituents in January 1881, he explained that he was not able to swear to the fact that all his campaign funds had been contributed as "expressly authorized by law." He further stated, "I have done nothing in this campaign that I am ashamed of, or that was inconsistent with strict honesty." A detailed examination of his accounts shows expenses that were not considered "expressly authorized," but were also not uncommon for most of the political candidates in Pennsylvania. In holding himself to the strict letter of the law, he earned the respect of both Democrats and Republicans alike. The next year Eckley B. Coxe was again elected to the Senate, this time with a majority three times as large as the previous year.

Eckley's personal character made him a model senator and he took advantage of the opportunity to spread his opinions across the entire commonwealth. Belonging to the minority party in the Senate, Eckley was unable to initiate any legislation, but did remain vocal concerning many of the major issues of the day. He was particularly interested in the "Voluntary Trade Tribunal Statute," which dealt with the vexed topic of labor organizations. In addressing the Senate, Eckley argued, "Though not pretending to be a workingman, or in any way his representative, but, on the contrary, a large employer of labor of all kinds, I feel and admit that he has equal rights with me. What he properly demands, and what he will have, is justice. To be satisfied, he must feel that the bargain is fair, and that it has been reached in an honorable way, without any resort to coercion. He cares more for this than a slight addition to or a deduction from his daily pay. Where the workingman does not get his dues, trouble must ensue, and capital must pay its share of the bill, which is often a large one." Eckley made every attempt to treat his men with the respect they demanded. Even so, he was not immune to strikes, which brought his collieries to a halt on several occasions. When demands for increased wages by a joint committee of the Knights of Labor and the Miners' and Laborers' Amalgamated Association brought operations in the anthracite fields to a standstill in 1887, Eckley remained open to hearing the grievances of his men, but like many coal operators, refused to meet with organizations, as he did not

believe they represented the best interest of his men. As labor struggled to organize in the latter part of the century, workingmen were as determined to stand by their unions as operators were to ignore them.

This state of affairs resulted in repeated struggles between labor and capital throughout the country, struggles that were especially bitter in the coalfields. When a congressional committee was appointed to investigate the labor troubles in Pennsylvania in 1888, Eckley testified, "It does not make any difference to us whether the men belong to any association or not. I do not care what association they belong to or what politics they have; it is none of my business; but when it came to the question, I was always willing and anxious to deal with my own men, and I expect to always; but I want to deal with the men who are interested to the particular question that I have got to settle." Eckley continued to remain active in the mining profession through his associations with numerous professional organizations, including the American Society of Mechanical Engineers, the American Society of Civil Engineers, the Engineer's Club of Philadelphia, the American Chemical Society, the Society for the Promotion of Engineering Education and the American Association for the Advancement of Science, to name just a few. In 1870, Eckley published a translation of Julias Weisbach's treatise, "A Manual of the Mechanics of Engineering and of the Construction of Machines, with an Introduction to the Calculus." Weisbach was a former professor of Eckley's at the Bergakademie in Freiberg, and an influential voice in the field of mechanics. This capacious volume, used primarily as a textbook, was completed at a monetary loss, but would, however, associate Eckley's name with one of the leading mechanical engineers in the world.

As Eckley continued to advance his own career and the anthracite industry as a whole, he never lost sight of his principal commitment to developing the lands of the Estate of Tench Coxe. In an effort to fully exploit the resources of his family's land, Eckley organized four additional companies in June 1893. The Drifton, Oneida, Tomhicken and Beaver Meadow water companies were organized to supply water to the industries and citizens of Hazle, East Union, Black Creek and Banks Township, respectively. On June 20, 1893, the capital stock of the four water companies, along with the stock of the Cross Creek Coal Company, Coxe Brothers and Company, Incorporated, the Delaware, Susquehanna and Schuylkill Railroad Company, and the Coxe Iron Manufacturing Company were placed into a trust under the control of Eckley B. Coxe, who served as president of them all. The trust was created to secure the continuation of the companies in the case of the death or sale of interest by any of the partners. The ownership of these companies was held in the same interest as that of the firm of Coxe Brothers and Company, being 4/15ths each with Eckley and Alexander Coxe, 3/15ths each vested in Henry B. and Eckley B. Coxe, Jr., and a 1/15th interest with Ezra B. Ely.

With the establishment of the various new Coxe enterprises, the business of the original firm (Coxe Brothers and Company) became limited to the operation of company stores at Fern Glen, Eckley and Drifton. This was no small point, however. By remaining a partnership, the Coxe family was not bound by the corporation laws of Pennsylvania, which prohibited the operation of company stores. But Coxe Brothers and Company stores respected the spirit of the anti-company store legislation. All Coxe employees were paid in cash that they could spend anywhere and not company script, which they would have to spend on overpriced goods at company stores. Eckley instructed his stores to sell goods as cheaply as possible and at no point were store debts deducted from an employee's wages. The various Coxe-owned enterprises remained in Eckley's charge till May 13, 1895, when at the age of 55, Eckley Brinton Coxe died of pneumonia. His death was mourned across the region as the buildings of Drifton were draped in black and Coxe collieries went idle. On the occasion of his funeral, every mine in the region suspended operations as a tribute to their deceased colleague.

Although Eckley was gone, his benevolence lived on through his wife of twenty-six years, Sophia Georgiana (Fisher) Coxe. Sophia undoubtedly served as Eckley's guiding light in his many altruistic endeavors. She was collectively known throughout the region as the "Angel of the Anthracite Fields" and the "Coxe Santa Claus." Sophia earned the latter title by providing the children of the Coxe mining towns with gifts and candy at an annul Christmas Party held in Cross Creek Hall. With the income guaranteed to her in Eckley's will, Sophia embarked on numerous acts of charity, funding additions to the Hazleton State Hospital, White Haven Sanitarium and the Philadelphia Children's Hospital. Sophia also advanced Eckley's work in education as a faithful benefactor of the Mining and Mechanical Institute of Freeland. She endowed the school with a new gymnasium and a trust fund to keep the school operating after her death, which occurred in 1926.

As Eckley's benevolence continued after his death, so too did his mining enterprises. His two surviving brothers, Alexander and Henry Coxe remained active in the business affairs of the Coxe mining companies, as Alfred E. Walter, a business associate, took control of the trust and presidency of the Coxe companies. The trust would subsequently pass to Irving A. Stearns from 1901 to 1905, when the trusteeship was canceled. The mining enterprises continued to expand through the turn of the century under the administration of Alexander B. Coxe. A graduate of the University of Pennsylvania, Alexander had distinguished himself in the Civil War, serving on the staff of Major-General George Meade. After the war, he played a major role in the financial management of Coxe Brothers and Company as the only Coxe partner, other than Eckley, who resided in Drifton. He continued to live near the collieries for nearly forty years.

In March 1900, Alexander initiated a series of business maneuvers to streamline the management of the various Coxe companies. He purchased the entire capital stock of the Coxe Iron Manufacturing Company and the selling agency, Coxe Brothers and Company, Inc. for the Cross Creek Coal Company. Now representing the combined capital of three companies, the Cross Creek Coal Company officially changed its name to Coxe Brothers & Company, Inc. The new company name distinguished only by the replacement of "and" by "&". Days later, the original firm of Coxe Brothers and Company was dissolved by agreement, with the remainder of its property and assets being assigned to the Cross Creek Coal Company for the sum of $300. The business of the firm would be continued by Coxe Brothers & Company, Inc. and the Delaware, Susquehanna & Schuylkill Railroad, both of which were owned in the same interest as the original firm. As both the executor of the Tench Coxe Estate and partner of Coxe Brothers & Company, Inc., Alexander was in a unique situation to further consolidate the management of the Coxe properties. On June 24, 1904, the numerous individual leases from the Estate of Tench Coxe to Coxe Brothers & Company, Inc. were consolidated into one blanket lease. The lease granted exclusive mining rights to the latter on the Drifton, Eckley, Stockton and Beaver Meadow properties, as well as on portions of the Tomhicken, Derringer and Oneida properties. The terms of the lease were agreed to continue until the coal was exhausted from the property or mining operations became unprofitable.

In 1904 Coxe Brothers was operating roughly 30,000 acres of land, although not all of it came from family leases. In addition to owning small portions of land, they still held leases on additional property from the Lehigh Valley Railroad Company, West Buck Mountain Coal Company, Anspach & Stanton, Black Creek Improvement Company and the Central Coal Company. The year 1904 also marked the death of Henry B. Coxe, leaving the sole responsibility of the company and the estate in Alexander's charge. With most of the family leaving the coalfields for homes in Philadelphia and nobody in the family willing to take the reins of the family business, the aging Alexander contemplated giving in to the railroads and selling off the mining operations. The Pennsylvania Railroad approached Alexander with an offer to purchase the entire operation of Coxe Brothers & Company, Inc., in an attempt to secure the valuable freight being produced at Coxe collieries. This freight totaled over one 1,500,000 tons of anthracite with 1,000,000 tons being mined directly from Coxe land. The LVRR, however, was not willing to lose its principal independent coal shipper and made Coxe Brothers a matching offer. Fortunately for the LVRR, Alexander Coxe served on its board of directors and in 1905 agreed to sell the whole of the Coxe mining enterprises to the LVRR.

The sale was completed on October 7, 1905, and included all of the property and assets of Coxe Brothers & Company, Inc. comprising, 1100 miners' houses, real estate in Chicago and Milwaukee, floating equipment in New York harbor, all the mined coal on hand as well as the leasehold rights covered in the 1904 lease. Also included in the sale were the Delaware Susquehanna & Schuylkill Railroad and the four Coxe subsidiary water companies. In return the LVRR paid a total of 18.4 million dollars, $6,400,000 being paid in cash and $12,000,000 in collateral trust four percent bonds, which could be redeemed in semi-annual payments of $500,000. The bonds were issued by the Girard Trust Company, which secured payment with Coxe Brothers & Company, Inc. stock, pledged by the LVRR. These bonds would mature in February 1926 at which time the stock was to be transferred back to the LVRR. The sale had the effect of taking the Coxe family out of the mining industry after forty years of successful operations.

The sale also marked the last major land acquisition by the LVRR, which competed in an industry that by some estimates controlled as much as 78% of the entire anthracite output. Nearly all of the other large independent operators had sold-out years ago, leaving the Coxe family operations as a relic of a day gone by. The family, however, would not forget the employees who gave the better part of their lives in service to the company. The Coxe Relief Fund was created by a resolution of the former stockholders of Coxe Brothers & Company, Inc. on October 31, 1905, and was funded by contributions from the Coxe family. In addition to paying off the sundry debts of the company, the

fund provided a pension to numerous Coxe employees. The Coxe family benefited greatly from Alexander Coxe's management of the company. In addition to providing the estates of his former partners with an $18.4 million dollar sale, he secured the Heirs of Tench Coxe a steady income of coal royalties for years to come. The stress and anxiety of such an endeavor, however, had an adverse effect on his health. Just four months after completing the sale to the LVRR, Alexander B. Coxe died.

With all of the original Coxe partners dead, a new generation of Coxe heirs stepped in to manage the affairs of the Estate of Tench Coxe. In January 1906, Henry Brinton Coxe, Jr. and Alexander Brown Coxe, both sons of Henry B. Coxe, became the Estate Agents. The management of the estate's property remained in the hands of agents and attorneys-in-fact for its entire existence, one member of which was always a descendant of Tench Coxe.

Although selling all of its direct interests in mining, the Coxe family retained ownership of the land it leased to Coxe Brothers & Company, Inc., now a subsidiary of the LVRR. Indirectly having control of the leases to the Coxe property, the LVRR subleased the mining rights of the Coxe land to the Lehigh Valley Coal Company, placing Coxe Brothers in the business of preparing coal at the breakers.

For years Federal law had prohibited railroad companies from owning their own coal properties, a law that was easily avoided by placing control of their properties with a coal company whose stock they owned entirely. Laws seeking to put an end to monopolistic trusts were becoming increasingly more stringent, however, placing all of the major rail lines in the anthracite field at risk of prosecution. In June of 1906, the Hepburn Act passed into law. Containing a commodities clause, it explicitly forbade the interstate shipment by railroad companies of any mining product in which they held a direct or indirect interest.

The LVRR became an easy target for the law. The railroad could not readily disguise its ownership of Coxe Brothers & Company, Inc. because it was paying for the purchase with railroad bonds. A decision in 1911, by the District Court of the United States for the Southern District of New York, affirmed that the LVRR was in violation of the Commodities Clause of the Hepburn Act by its stock ownership of both the LVCC and Coxe Brothers & Company, Inc. To evade the clause the Lehigh Valley Coal Sales Company was organized in an attempt to distance the railroad from its mining operations. The sales company purchased Coxe Brothers and Lehigh Valley coal at the breakers and distributed it to the various dealers.

The Lehigh Valley Railroad Company's entanglement with its coal properties remained obvious nonetheless and in March 1914, the Federal Government filed suit against the railroad for trust evasion, charging it with violations of both the Sherman Anti-Trust Act and the Hepburn Act. After six years of litigation, a decision was handed down ordering the dissolution of the Lehigh Valley mining combination. The final decree of the court was handed down in November 1923, outlining the exact steps the court required. The decree called for the creation of a trusteeship that would hold the complete voting power of Coxe Brothers & Company, Inc. stock. The trustee was further ordered not to vote the stock in any way that would bring about a unity of interest or a suppression of competition between the two companies. Under the direction of the Coxe trustee, Coxe Brothers & Company, Inc. went through a series of changes in the operation of their property. In 1929 management of the Coxe properties was turned over to the Jeddo-Highland Coal Company, operated by Donald Markle, son of the highly successful retired anthracite operator, John Markle. The change in management took control of the Coxe Brothers property out of the hands of the LVCC, severing the remaining links with the LVRR. The agreement with Jeddo-Highland had been in place for seven years when, in 1936, Coxe Brothers & Company, Inc. was given direct control of its mining operations, placing them back in the business of mining coal for the first time since the company was sold in 1905.

Management by Coxe Brothers did not prove to be very sound, as strikes repeatedly shut down operations. During a strike in 1938, an operative employed by the company to spy on the men reported, "They say the company is not providing and using props at any place – that no effort is being made to save the roof. They say no coal is being taken which entails the expenditure of anything but the minimum amount of money. This they interpret to mean the abandonment of the company's operations there in the near future is a certainty. This is now the basis for the strike." The poor management of Coxe Brothers under the control of its board of directors, many of whom were directors of the LVRR, did not go unnoticed by the Coxe trustee and in 1940 management of Coxe Brothers & Company, Inc., once again, was turned over to the Jeddo-Highland Coal Company. Management of portions of some properties were also granted to the Gowen Coal Company, Wolf Collieries Company, Pardee Brothers and Company, Inc., Sterrick Creek Coal Company and the Haddock Mining Company.

The year 1940 marked the last year that Coxe Brothers had any direct or indirect control concerning mining, selling or transporting coal from its leased property. The anthracite industry saw peak years of production during World War I, but then began a steady decline from which it would never recover. By the 1940s coal operators were becoming increasingly scarce giving the LVRR an opportunity to regain control of the capital stock of Coxe Brothers & Company, Inc. In 1942 they petitioned the United States Government to end the trusteeship, arguing that Coxe Brothers & Company, Inc. acted strictly as a property agent without any control of the operators' policies. They further argued that 82% of the coal on Coxe Brothers property had been removed since the trusteeship was created and with the decreased market for anthracite coal, finding a buyer of the Coxe Brothers stock would be nearly impossible.

The courts handed down a decision in favor of the railroad and ordered the stock of Coxe Brothers & Company, Inc. returned to the LVRR. The return of Coxe Brothers' stock was authorized by the courts with the explicit requirement that quarterly reports concerning the financial condition and conduct of business be submitted to the office of the Attorney General of the United States. The approval of the Attorney General's office was also required before Coxe Brothers could change the terms or execute any new lease. In its petition to the courts the LVRR alluded to the "short prospective life of Coxe Brothers & Company, Inc." This attitude appears to be confirmed upon the latter's return to LVRR control. A memo from C.E. Hildum, Vice President of the LVRR, in June 1943, stated, "Coxe Bros. presumably could use its cash to continue mining operations, either by its own organization or through management agreements, until its working funds were exhausted, or until its operating leases exceeded the Railroad Company profits from the movement of coal."

The LVRR was once again mining for freight, a practice that ultimately brought about a significant decrease in coal royalties for the Heirs of Tench Coxe. In 1943, Coxe Brothers & Company, Inc. leased over 19,000 acres of land, 79% of which was leased from the Estate of Tench Coxe. The remaining portions were either owned in fee or leased from the Deringer Estate, LVCC or the Estate of Charles S. Coxe. For the next seven years Coxe Brothers did not operate any of its collieries but was still required to obtain the heirs' consent before subleasing to tenants. The Estate Agents, however, were unhappy with the way Coxe Brothers was managing their property. The agents believed that Coxe Brothers & Company, Inc. was mainly interested in obtaining freight for the railroad rather than obtaining the maximum income from the properties.

Coxe Brothers was further criticized for allowing the Haddock Mining Company to operate the Beaver Meadow, Deringer and Tomhicken properties without paying royalties or taxes for a period of nine months. In 1938, an amendment was made to the 1904 lease in which royalties were to be paid to the estate on a profit-sharing basis, with 2/3 of the net income being paid in royalties. The estate was then permitted to employ accountants to examine the records of Coxe Brothers. The accountants found numerous discrepancies in Coxe Brothers' accounts and in February 1949 the Heirs of Tench Coxe filed a lawsuit against Coxe Brothers & Company, Inc. to recover $350,000 due them in royalties. The heirs charged that Coxe Brothers took unauthorized deductions in computing their net income, the basis for establishing royalty payments. The lawsuit, however, was just an example of the animosity that existed between the two interests. It eventually became the clear desire of the Estate Agents to eliminate Coxe Brothers & Company, Inc. as a "middleman" by canceling the terms of the 1904 lease.

In 1950, the Estate Agent, Daniel M. Coxe, called a meeting of the Coxe heirs to discuss the canceling of their lease with Coxe Brothers & Company, Inc. It was agreed by all parties involved that the result of such an action would create considerable savings on overhead and increased royalties to the Estate. As part of the settlement agreement from the lawsuit filed a year earlier the terms of the 1904 lease were canceled. In addition, Coxe Brothers assigned all of its subleases, titles to culm and refuse banks, its fee land, mining equipment, drainage tunnels and miners houses to the Estate of Tench Coxe. Of particular significance in this agreement was the stipulation that all of the maps, leases, surveys, correspondence and records of every nature relating to the property be transferred to the Estate. The ownership of these records were retained by the Estate until 1968 when they were transferred to the Historical Society of Pennsylvania, as a portion of this collection. The courts approved the settlement agreement in July 1950, having the effect of putting Coxe Brothers & Company, Inc. out of business and in line for liquidation. Coxe Brothers was officially dissolved in July of the following year with distribution to its stockholders, the LVRR. The settlement also placed the Coxe family in direct control of its landholdings for the first time in forty-five years.

By 1950, the anthracite industry was a shell of its former self. A deflated market for anthracite led to decreased income for the estate. Under the direction of the agents, new leases were granted to mining operations, including

the Jeddo-Highland Coal Company, but finding additional tenants proved to be extremely difficult. Given the state of affairs in the anthracite fields it soon became the clear intention of the Tench Coxe Estate to divest itself of its land holdings.

In 1956, the first major land sale was completed for 2,000 acres, to the Beryllium Corporation of Reading to establish the firm's new Nuclear Division. The land sale trend continued in 1959 with the sale of the Drifton Village and again in 1960 with the sale of Tomhicken. Coal production on estate lands was down to 62,744 tons in 1960 without any hope of future improvements. Facing the prospect that the majority of accessible coal deposits had been exhausted and profitable leases were no longer available, Daniel urged to the heirs to liquidate the real estate of the Estate of Tench Coxe. The large number of individuals, estates and trusts holding an interest in the Tench Coxe Estate, however, made property sales extremely difficult.

With over fifty-seven distributees, representing 108 heirs on two continents, the fractional interests of the estate were getting smaller as the number of heirs multiplied with each generation. To avoid the lengthy task of securing consent from all of the individual family members, the heirs and owners of the Tench Coxe properties executed a trust agreement, which conveyed their authority to sell the family property to a group of trustees, which included Daniel M. Coxe, Eckley B. Coxe, III and Tench C. Coxe, Jr. The trust was organized under the name Tench Coxe Properties Liquidating Trust in December 1961.

Initially, the trust was able to sell only small portions of the property, but nonetheless actively pursued a buyer for the large acreage that remained. The trust liquidated the last remaining portions of the estate lands in 1966, with the sale of 16,400 acres to Butler Enterprises, Inc., owned by the prominent Philadelphia real estate developers, Philip and Nathan Seltzer. Butler Enterprises was drawn to the area due in large part to the efforts of Can-Do, Inc., (Community-Area New Development Organization). This citizen-sponsored organization was established in 1956 with the intention of drawing new industries to the Hazleton region, which Philip Seltzer described as being one of the "great progressive areas of Pennsylvania." Can-Do, Inc. functioned with assistance from the Coxe family, which had a great deal to gain from increasing the vitality of the region.

The assistance was also very much characteristic of the Coxe family's tradition of providing support for the social and economic development of the region. The transfer of title to Butler Enterprises marked the end of an era for the Coxe family, an era spanning over 150 years of direct involvement with the people and geology of the area. An example of this relationship between labor and capital can be seen today at Eckley Miners Village, a historic site representing a nineteenth century company mining town or "patch town." The site is maintained by the Pennsylvania Historical and Museum Commission, on land once owned by the Estate of Tench Coxe. The family's impact will also continue to be felt at MMI Preparatory School, which continues to benefit from contributions from the Heirs of Tench Coxe and the Sophia Coxe Charitable Trust.

Although the Coxe family has long since left the coalfields of Northeastern Pennsylvania, the potential still exists for the Coxes to return to the region, through the auspices of Tench Coxe, Inc. Established in 1968, this company holds the gas and oil rights to roughly 13,000 acres of property included in the sale to Butler Enterprises. Although the prospect of discovering gas and oil may not be substantial, large domes discovered on the property in the 1950's may prove to be valuable storage sites for natural gas surpluses pumped into the Northeast during summer months. The domes are situated at depths of 18,000 feet, which do not make them economically useful to date.

Source

Coxe Family Mining Papers, Background Notes, Historical Society of Pennsylvania, 2001. (last accessed February 28, 2022, http://www2.hsp.org/collections/coxe/findingaid.html)

Scope and Contents

The collection contains primarily drawings of mine machinery and buildings, including buildings within the company town such as worker housing and churches and maps, including real estate maps, contour and topographical maps, maps of highways and roads, insurance maps and others. There are some photographs, including glass plate

negatives, of mining machinery and operations; deeds, leases, and agreements and papers relating to Eckley B. Coxe's patents and legal matters.

Arrangement

The collection is arranged into seven series.

Series 1: Eckley B. Coxe, Jr. Estate Materials, 1891-1969

Series 2: Patent Material, 1871-1902

Series 3: Agreements, Deeds, and Leases, 1882-1949

Series 4: Miscellaneous Documentation, 1866-1950

Series 5: Glass Plate Negatives and Photographs, 1890-1937

Series 6: Drawings, 1885-1991

Series 7: Maps, 1830-1997

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

Anthracite coal
Coal mines and mining
Coal mines and mining -- Pennsylvania
Company towns
Mines
Mining
Mining equipment

Types of Materials:

Agreements
Blueprints
Correspondence -- 19th-20th century
Deeds
Drawings -- 19th century
Drawings -- 20th century
Glass plate negatives
Legal documents -- 19th century
Maps
Patents -- 19th century
Photographs
Photographs -- 19th century
Tracings

Names:

Coxe, Eckley B. (Eckley Brinton), 1839-1895
Coxe, Tench, 1755-1824

Places:

Pennsylvania

Container Listing

Series 1: Eckley B. Coxe, Jr. Estate Materials, 1891-1969

Scope and Contents: These materials consist of typescript and handwritten legal documents, some of which are tri-folded and relate to the Estate of Eckley Brinton Coxe, Jr. (1839-1895). Included is Coxe's last will and testament, correspondence with attorneys representing various Coxe Family members and other organizations, such as the University of Pennsylvania, depositions, and financial documents filed with the Orphans Court of Luzerne County, Pennsylvania.

Last will and testament of Brinton Coxe, 1891-01-05
Box 1, Folder 1

Financial data for Estate of Eckley B. Coxe, 1905-1906, 1917-1920
Box 1, Folder 2

Eckley B. Coxe, Jr., will and codicils, 1910-11-07
Box 1, Folder 3

Statement of facts, 1916
Box 1, Folder 4

Supplemental Brief Sur Exceptions to Examiners, Report on Behalf of Edmund J.D. Coxe, 1916
Box 1, Folder 5

Inventory and appraisement of Eckley B. Coxe, Jr. Estate, 1916-10-25
Box 1, Folder 6

First account (financial) of Eckley B. Coxe, Jr. Estate, 1916-1918
Box 1, Folder 7

First Supplemental Accounts of Expenses, 1920-1924
Box 1, Folder 8

Mistakes in testimony, 1921-01-27
Box 1, Folder 9

Testimony on Exceptions of Charles Sinkler and John Cadwalader, 1921-01-27
Box 1, Folder 10

Trustees of the University of Pennsylvania vs. John Cadawalder, 1921-01-27
Box 1, Folder 11

Depositions of Charles C. Harrison and George B. Gordon (pages 1-160), 1921-11-02
Box 1, Folder 12

Box 2, Folder 1 Depositions of Charles C. Harrison and George B. Gordon (pages 161-359), 1921-11-02

Box 2, Folder 2	Deposition of Charles C. Harrison, 1922-01-27
Box 2, Folder 3	Deposition of Charles C. Harrison re: last will and testament of Eckley B. Coxe, 1922-01-27
Box 2, Folder 4	John Cadwalder to Edmund J.D. Coxe, 1922-06
Box 2, Folder 5	Statement of Valuation of Securities, 1922-12
Box 2, Folder 6	Statement of Charles Sinkler, Esq., 1922-12-08
Box 2, Folder 7	Williams & Sinkler, Esq. correspondence, 1922
Box 2, Folder 8	Williams & Sinkler to Edmund J.D. Coxe, 1920, 1923-1924
Box 2, Folder 9	Report of Examiner, 1924
Box 2, Folder 10	Exceptions, 1924
Box 2, Folder 11	Second Account Supplemental to the First and Final Account of Charles Sinkler and John Cadwalder, 1924-12-31
Box 2, Folder 12	Stipulations, 1925-06-01
Box 2, Folder 13	Audit of Executors Account, 1925-09
Box 2, Folder 14	Information for Thomas Ridgway, Esq., 1926-10-13
Box 2, Folder 15	Exceptions to Report on Audit, 1927-09-06
Box 2, Folder 16	Testimony on Audit, 1925-09-29
Box 2, Folder 17	Testimony on Exceptions, 1925-09-29
Box 2, Folder 18	Testimony of S.W. Rhodes and F.W. Wheaton, Esq. and Thomas Ridgway, Esq. and Evan C. Jones, Esq. for Eliza Coxe Young, Edmund J.T. Coxe, and children of Mrs. Girard, 1926-03-05
Box 2, Folder 19	Report of Audit, 1927
Box 3, Folder 1	Petition Pennsylvania Co. for Insurances on Lives and Granting Annuities , appointed guardian of Estates of Christopher Young and Alexander Coxe, 1927-01
Box 3, Folder 2	Estate of Eckley B. Coxe, Jr., Brief of Sur Claim of Philadelphia Orchestra, 1925-10-03

Box 3, Folder 3	Petition for Fidelity-Philadelphia Trust Co., appointed substitute Trustee for Eliza M.D. Coxe Young under will of Brinton Coxe, 1927
Box 3, Folder 4	Petition of Philip Francis Young and Brinton Coxe Young, minors for guardian ad litem, 1933
Box 3, Folder 5	First account of Fidelity-Philadelphia Trust Co., for Maria M. Coxe under the will of Brinton Coxe, 1933
Box 3, Folder 6	Inventory and Appraisement of Estate of Maria M. Coxe, 1933
Box 3, Folder 7	Petition for Appointment, Pennsylvania Co., for Insurances on Lives and Granting Annuities is appointed guardian of estate of Philip Francis Young and Brinton Coxe Young, 1933-04
Box 3, Folder 8	Distribution of Estate of Eckley B. Coxe, Jr., 1937-06-18
Box 3, Folder 9	Miscellaneous, 1916, 1923-1924
Box 3, Folder 10	Daniel M. Coxe Estate, 1966-1969

Return to Table of Contents

Series 2: Patent Material, 1871-1902

Scope and Contents: This series consists primarily of original and copy patents for Eckley Brinton Coxe, Francis H. Richards, Samuel Salmon, and John R. Wagner. Also included is correspondence related to patenting matters. The series is arranged into three subseries, Subseries 2.1: United States Patents, Subseries 2.2: Foreign Patents and Subseries 2.3: Patent Correspondence. The United States patents are arranged by patent number and the foreign patents are arranged alphabetically by name of country.

Subseries 2.1: United States Patents, 1871-1902

Box 3, Folder 11	Eckley B. Coxe, United States patents (list), undated
Box 38, Folder 1	Thomas Ross and Rockwood Barrett, Improvement in machines for channeling stone (US 4264), 1871
Box 38, Folder 1	Jack Shelley, Improvement in rock drills (US 11,689), 1871
Box 3, Folder 12	Peter William Williams, Improvement in motive power search (US 338,378), 1886
Box 3, Folder 13	Peter William Williams, Improvment in fluid pressure engines and pumps (US 339,242), 1892
Box 3, Folder 14	Eckley B. Coxe, Coal-Breaker (US 3550,314), 1886
Box 3, Folder 15	Eckley B. Coxe, Mechanical Movement (US.369,235), 1887
Box 3, Folder 16	Eckley B. Coxe, Coal screening mechanism (US 380,190), 1888
Box 3, Folder 17	Peter William Williams and Mark Heaton Robinson, Improvement in high speed engines (US 380,375), 1892
Box 3, Folder 18	Eckley B. Coxe, Automatic Slate -Picker (US 382,215), 1888
Box 3, Folder 19	Eckley B. Coxe, Screening mechanism (US 403,989), 1889
Box 3, Folder 20	Eckley B. Coxe, Screening mechanism (US 403,990), 1889
Box 3, Folder 21	Francis H. Richards to Eckley B. Coxe, Drilling machine (US 404,364), 1889
Box 3, Folder 22	Francis H. Richards to Eckley B. Coxe, Feed mechanism (US 404,365), 1889
Box 3, Folder 23	Samuel Salmon, Hoisting mechanism for mines (US 404,935), 1889
Box 3, Folder 24	Eckley B. Coxe, Packing for Piston rods (US 419,034), 1890
Box 3, Folder 25	Eckley B. Coxe and Samuel Salmon, Mechanical movement (US 419,035), 1890

Box 3, Folder 26	Eckley B. Coxe and Samuel Salmon, Mechanical movement (US 419,036), 1890
Box 3, Folder 27	Eckley B. Coxe, Mechanical movement (US 419,037), 1890
Box 3, Folder 28	Francis H. Richards to Eckely B. Coxe, Drilling machine (US 419,070), 1890
Box 3, Folder 29	Francis H. Richards to Eckely B. Coxe, Drilling machine (US 419,071), 1890
Box 3, Folder 30	Francis H. Richards to Eckely B. Coxe, Milling machine vise (US 419,072), 1890
Box 3, Folder 31	Francis H. Richards to Eckely B. Coxe, Work holder (US 419,073), 1890
Box 4, Folder 1	Samuel Salmon, Apparatus for Dumping Coal (US 419,077), 1890
Box 4, Folder 2	John R. Wagner to Eckley B. Coxe, Mechanical movement (US 419,089), 1890
Box 4, Folder 3	Eckley B. Coxe and Samuel Salmon, Mechanism for screening coal (US 419,113), 1890
Box 4, Folder 4	Ezra B. Ely and Samuel Salmon, Mechanism for loading coal (US 419,145), 1890
Box 4, Folder 5	Francis H. Richards to Eckley B. Coxe, Drill (US 419,883), 1890
Box 4, Folder 6	Francis H. Richards to Eckley B. Coxe, Milling machine vise (US 419,884), 1890
Box 4, Folder 7	Francis H. Richards to Eckley B. Coxe, Milling machine vise (US 419,885), 1890
Box 4, Folder 8	Francis H. Richards to Eckley B. Coxe, Drilling machine (US 421,517), 1890
Box 4, Folder 8A	Francis H. Richards to Eckley B. Coxe, Drilling machine (US 422,540), 1890
Box 4, Folder 9	Francis H. Richards to Eckley B. Coxe, Drilling machine (US 426,571), 1890
Box 4, Folder 10	Francis H. Richards to Eckley B. Coxe, Piston valve (US 430,484), 1890
Box 4, Folder 11	Francis H. Richards to Eckley B. Coxe, Piston valve (435,322), 1890
Box 4, Folder 12	Eckley B. Coxe, Coal screening mechanism (US 438,527), 1890
Box 4, Folder 13	Eckley B. Coxe, Elevator apparatus (US 441,288), 1890
Box 4, Folder 14	Eckley B. Coxe, Pneumatic motor (US 445,601), 1890
Box 4, Folder 15	Francis H. Richards to Eckley B. Coxe, Pneumatic motor (US 445,603), 1891
Box 4, Folder 16	Francis H. Richards to Eckley B. Coxe, Apparatus for supplying compressed air for pneumatic motors (US 446,822), 1891

Box 4, Folder 17	Francis H. Richards, Frictional reversing gearing (US 446,927), 1891
Box 4, Folder 18	Eckley B. Coxe, Slate picking mechanism (US 450,482), 1891
Box 4, Folder 19	Eckley B. Coxe, Automatic slate picker (US 450,482), 1891
Box 4, Folder 20	Francis H. Richards, Compressed Air Tramway system (US 452,051), 1891
Box 4, Folder 21	Francis H. Richards, Compressed Air Tramway system (US 452,052), 1891
Box 4, Folder 22	Francis H. Richards, Multiple drilling machine (US 452,053), 1891
Box 4, Folder 23	Francis H. Richards to Eckley B. Coxe, Feed mechanism (US 452,431), 1891
Box 4, Folder 24	Francis H. Richards to Eckley B. Coxe, Drilling machine (US 460,692), 1891
Box 4, Folder 25	Francis H. Richards, Air compressor (US 762,776), 1891
Box 4, Folder 26	Eckley B. Coxe, Conveyor, (US 481,106), 1891
Box 4, Folder 27	Eckley B. Coxe, Mechanism for drilling (US 483,903), 1892
Box 4, Folder 28	Eckley B. Coxe, Process for burning fuel (US 499,715), 1893
Box 4, Folder 29	Eckley B. Coxe, Furnace (US 499,716), 1893
Box 4, Folder 30	Francis H. Richards to Eckely B. Coxe, Grate (US 510,547), 1893
Box 4, Folder 31	Francis H. Richards to Eckely B. Coxe, Furnace (US 510,548), 1893
Box 4, Folder 32	Francis H. Richards to Eckely B. Coxe, Furnace (US 510,549), 1893
Box 4, Folder 33	Francis H. Richards to Eckely B. Coxe, Furnace (US 510,550), 1893
Box 4, Folder 34	Francis H. Richards to Eckely B. Coxe, Furnace (US 510,551), 1893
Box 4, Folder 35	Francis H. Richards to Eckely B. Coxe, Furnace (US 510,552), 1893
Box 4, Folder 36	Francis H. Richards to Eckely B. Coxe, Furnace (US 510,553), 1893
Box 4, Folder 37	Francis H. Richards to Eckely B. Coxe, Furnace (US 510,554), 1893
Box 4, Folder 38	Francis H. Richards to Eckely B. Coxe, Furnace (US 510,555), 1893
Box 4, Folder 39	Francis H. Richards to Eckely B. Coxe, Furnace (US 510,556), 1893
Box 5, Folder 1	Eckley B. Coxe, Traveling Grate Furnace (US 510,565), 1893

Box 5, Folder 2	Eckley B. Coxe, Traveling Grate Furnace (US 510,566), 1893
Box 5, Folder 3	Eckley B. Coxe, Process of burning fuel (US 510,567), 1893
Box 5, Folder 4	Eckley B. Coxe, Traveling Grate Furnace (US 510,568), 1893
Box 5, Folder 5	Eckley B. Coxe, Traveling Grate Furnace (US 510,569), 1893
Box 5, Folder 6	Eckley B. Coxe, Heating plant (US 510,570), 1893
Box 5, Folder 7	Eckley B. Coxe, Furnace floors (US 510,571), 1893
Box 5, Folder 8	Eckley B. Coxe, Furnace (US 510,572), 1893
Box 5, Folder 9	Eckley B. Coxe, Traveling Grate (US 510,573), 1893
Box 5, Folder 10	Eckley B. Coxe, Furnace (US 510,574), 1893
Box 5, Folder 11	Eckley B. Coxe, Traveling Grate Furnace (US 510,575), 1893
Box 5, Folder 12	Eckley B. Coxe, Floor plate for furnace (US 510,576), 1893
Box 5, Folder 13	Eckley B. Coxe, Furnace (US 510,577), 1893
Box 5, Folder 14	Eckley B. Coxe, Process of burning fuel (US 510,578), 1893
Box 5, Folder 15	Eckley B. Coxe, Grate bar (US 510,579), 1893
Box 5, Folder 16	Eckley B. Coxe, Floor plate for furnace (US 510,580), 1893
Box 5, Folder 17	Eckley B. Coxe, Floor plate for furnace (US 510,581), 1893
Box 5, Folder 18	Eckley B. Coxe, Furnace (US 510,582), 1893
Box 5, Folder 19	Eckley B. Coxe, Steam plant (US 510,583), 1893
Box 5, Folder 20	Eckley B. Coxe, Furnace (US 510,584), 1893
Box 5, Folder 21	Eckley B. Coxe, Steam plant (US 510,585), 1893
Box 5, Folder 22	Eckley B. Coxe, Process of utilizing carbonaceous (US 510,586), 1893
Box 5, Folder 23	Eckley B. Coxe, Furnace (US 510,587), 1893
Box 5, Folder 24	Eckley B. Coxe, Furnace (US 510,588), 1893
Box 5, Folder 25	Eckley B. Coxe, Furnace plant (US 510,589), 1893

Box 5, Folder 26	Eckley B. Coxe, Traveling grate furnace (US 510,666), 1893
Box 5, Folder 27	Francis H. Richards to Eckley B. Coxe, Traveling grate furnace (US 515,612), 1893
Box 5, Folder 28	Eckley B. Coxe, Traveling grate furnace (US 515,656), 1893
Box 5, Folder 29	Eckley B. Coxe, Traveling grate (US 515,657), 1894
Box 5, Folder 30	Eckley B. Coxe, Traveling grate furnace (US 517,067), 1894
Box 5, Folder 31	Francis H. Richards, Furnace (US 517,627), 1894
Box 5, Folder 32	Eckley B. Coxe, Furnace (US 517,644), 1894
Box 5, Folder 33	Eckley B. Coxe, Furnace (US 517,6445, 1894
Box 5, Folder 34	Eckley B. Coxe, Furnace (US 518,578), 1894
Box 5, Folder 35	Francis H. Richards, Turret lathe (US 518,969), 1894
Box 5, Folder 36	Eckley B. Coxe, Coal breaker (US 527,411), 1894
Box 5, Box 37	Eckley B. Coxe, Coal breaker apparatus (US 527,412), 1894
Box 5, Box 38	Francis H. Richards, Traveling grate furnace (US 527,448), 1894
Box 5, Box 39	Francis H. Richards to Eckley B. Coxe, Traveling grate furnace (US 527,449), 1894
Box 5, Box 40	Francis H. Richards to Eckley B. Coxe, Traveling grate furnace (US 527,450), 1894
Box 5, Box 41	Francis H. Richards to Eckley B. Coxe, Traveling grate furnace (US 527,451), 1894
Box 5, Box 42	Francis H. Richards to Eckley B. Coxe, Traveling grate furnace (US 527,452), 1894
Box 5, Box 43	Francis H. Richards to Eckley B. Coxe, Traveling grate furnace (US 527,453), 1894
Box 5, Box 44	Francis H. Richards to Eckley B. Coxe, Traveling grate furnace (US 527,454), 1894
Box 5, Box 45	Francis H. Richards to Eckley B. Coxe, Traveling grate furnace (US 527,455), 1894
Box 5, Box 46	Francis H. Richards to Eckley B. Coxe, Traveling grate furnace (US 527,593), 1894
Box 5, Box 47	Francis H. Richards to Eckley B. Coxe, Traveling grate furnace (US 527,719), 1894
Box 6, Folder 1	Eckley B. Coxe, Traveling Grate Furnace (US 535,355), 1895

Box 6, Folder 2	Francis H. Richards assigned to Eckley B. Coxe, Furnace Floor for Traveling Grate Furnaces (US 535,402), 1895
Box 6, Frame 3	Francis H. Richards, Furnaces (US 535,403), 1895
Box 6, Folder 4	Francis H. Richards, Traveling Grate Furnace (US 535,404), 1895
Box 6, Folder 5	Francis H. Richards, Traveling Grate Furnace (US 535,405), 1895
Box 6, Folder 6	Francis H. Richards, Furnace (US 535,406), 1895
Box 6, Folder 7	Francis H. Richards, Furnace (US 535,407), 1895
Box 6, Folder 8	Francis H. Richards, Traveling Grate Furnace (US 535,408), 1895
Box 6, Folder 9	Francis H. Richards, Furnace (US 535,409), 1895
Box 6, Folder 10	Francis H. Richards, Furnace (US 535,410), 1895
Box 6, Folder 11	Francis H. Richards, Furnace (US 535,411), 1895
Box 6, Folder 12	Francis H. Richards, Furnace (US 535,412), 1895
Box 6, Folder 13	Francis H. Richards, Process of an Apparatus for Burning Fuel (US 535,413), 1895
Box 6, Folder 14	Francis H. Richards, Locomotive Engine (US 535,414), 1895
Box 6, Folder 15	Francis H. Richards assigned to Eckley B. Coxe, Furnace (US 535,730), 1895
Box 6, Folder 16	Eckley B. Coxe, Traveling Floor Furnace (US 536,372), 1895
Box 6, Folder 17	Eckley B. Coxe, Locomotive Engine (US 536,373), 1895
Box 6, Folder 18	Eckley B. Coxe, Furnace (US 536,394), 1895
Box 6, Folder 19	Francis H.Richards, Speed Reducing Driving Mechanism (US 553,317), 1896
Box 6, Folder 20	Eckley B. Coxe, Apparatus for jigging coal (US 556,739), 1896
Box 6, Folder 21	Eckley B. Coxe, Apparatus for jigging coal (US 556,739), 1896
Box 6, Folder 22	Alexander B. Coxe, Art of and Apparatus for Controlling and Operation of Traveling Grate Furnace (US 562,068), 1896
Box 6, Folder 23	Alexander B. Coxe, Traveling Grate (US 562,069), 1896
Box 6, Folder 24	C.E. Knapp, Molding for edges of stair (US 586,739), 1897

Box 6, Folder 25	Gyrating coal screen patent examination, 1887
Box 6, Folder 26	Patents assigned to Eckley B. Coxe by Francis H. Richards, John R. Wagner, and Samuel Salmon, 1887-1895
Box 6, Folder 27	Patents for Thomas Craney, 1886-1902
Box 6, Folder 28	Patent claims for Francis H. Richards, Process of and Apparatus for Burning Fuel, 1895
Box 6, Folder 29	Hydraulic feed for diamond and other rotary drills (specifications), 1883
Box 6, Folder 30	W.H. Richmond, Coal breaker (US 216,807), 1879
Box 6, Folder 31	Ezra Haskee and Sullivan Machine Company of New Hampshire (agreement), 1873
Box 6, Folder 32	Ezra Haskee and Sullivan Machine Company of New Hampshire (agreement), 1873

Subseries 2.2: Foreign Patents, 1885-1894

Box 38, Folder 2; Box 7, Folder 1	List of foreign patents for Eckley B. Coxe, undated
Box 38, Box 3; Box 7, Folder 2	Eckley B. Coxe and Samuel Salmon, Improvements in Mechanical Movement (Australia #5453), 1887
Box 38, Box 4; Box 7, Folder 11	Edward Waters, Improvements in Mechanical Movement (New South Wales, Australia #349), 1887
Box 38, Box 5	Edward Waters, Improvements in Mechanical Movement (South Australia #917), 1887
Box 38, Box 6	Eckley B. Coxe and Samuel Salmon, Improvements in Mechanical Movement (Queensland, Australia #444), 1888
Box 38, Box 7	Eckley B. Coxe and Samuel Salmon, Improvements in Mechanical Movement (West Australia #174), 1888
Box 7, Folder 3	Eckley B. Coxe, Improvements in Mechanical Movements (Belgium #78,721), 1892
Box 38, Box 8	Eckley B. Coxe and Samuel Salmon, Improvements in Mechanical Movement (Canada #28,803), 1888
Box 38, Box 9	Eckley B. Coxe, Improvements in Mechanical Movement (France #186,208), 1887

Box 38, Box 10	Eckley B. Coxe, Improvements in Mechanical Movement (Portugal #1186, 1889
Box 38, Folder 11	Eckley B. Coxe, Improvements in Mechanical Movement (Russia #14,856), 1889
Box 38, Folder 12	Eckley B. Coxe and Samuel Salmon, Improvements in Mechanical Movement (Tasmania #511), 1887
Box 7, Folder 4	Eckley B. Coxe and Samuel Salmon, Improvements in Mechanical Movements (Denmark #842), 1887
Box 7, Folder 5	Eckley B. Coxe and Samuel Salmon, Improvements in Mechanical Movements (Denmark #5563), 1889
Box 7, Folder 6	Eckley B. Coxe assigned to Samuel Salmon, Improvements in Mechanical Movements (England #11,763), 1887
Box 7, Folder 7	Eckley B. Coxe, Improvements in Mechanical Movements (England #23,899), 1893
Box 7, Folder 8	Eckley B. Coxe, Improvements in Mechanical Movements (France #186,208), 1887
Box 7, Folder 9	Eckley B. Coxe, Improvements in Mechanical Movements (Germany #43,458), 1890
Box 7, Folder 10	Eckley B. Coxe, Improvements in Mechanical Movements (Italy #9536), 1887
Box 7, Folder 12	John Edward Hayes, Improvements in Mechanical Movements (New Zealand #2673), 1887, 1890
Box 7, Folder 13	Eckley B. Coxe, Improvements in Mechanical Movements (Norway #664), 1888
Box 7, Folder 14	Johann Karlik and Wallace Fairweather, Improvements in Apparatus for Screening or Sifting and Classifying Minerals (England0, 1885
Box 7, Folder 15	Eckley B. Coxe, Improvements in Mechanical Movements (Spain #1497), 1888
Box 7, Folder 16	Eckley B. Coxe, Improvements in Mechanical Movements (Sweden #1324), 1887
Box 7, Folder 17	Eckley B. Coxe and Samuel Salmon, Improvements in Mechanical Movements, certificate of renewal (Queensland #444), 1892
Box 7, Folder 18	Francis H. Richards, claims allowed, serial numbers 519,730 to 527,862, 1894
Box 7, Folder 19	Claims for drilling mechanisms, undated
Box 7, Folder 20	Foreign, miscellaneous documents, undated

Series 2.3: Patent Correspondence, 1884-1896

Scope and Contents: This series consists of correspondence related to patents, their issuance, examination, associated fees, and specifications. The majority of the correspondence is between Prindle & Russell, Attorneys at Law and Solictors of Patents and Eckley B. Coxe.

Box 7, Folder 21	M. Paul Henry Putte-Cotte, Count de Reneville and Alexander B. Coxe and Henry B. Coxe, 1896, 1898 Notes: Includes copy of last will and testament of Tench Coxe.
Box 7, Folder 22	Exckley B. Coxe and Prindle & Russell (registered receipts), 1887-1894
Box 7, Folder 23	L.H. Taylor and Company Bankers to Eckley B. Coxe, 1888-1896
Box 7, Folder 24	Prindle & Russell to Eckley B. Coxe, 1884-1886
Box 7, Folder 25	Prindle & Russell to Eckley B. Coxe, 1886-1887
Box 8, Folder 1	Prindle & Russell to Eckley B. Coxe, 1888
Box 8, Folder 2	Prindle & Russell to Eckley B. Coxe, 1888
Box 8, Folder 3	Prindle & Russell to Eckley B. Coxe, 1889
Box 8, Folder 4	Prindle & Russell to Eckley B. Coxe, 1890
Box 8, Folder 5	Prindle & Russell to Eckley B. Coxe, 1891
Box 8, Folder 6	Prindle & Russell to Henry S. Drinker, 1884
Box 8, Folder 7	Prindle & Russell to Eckley B. Coxe, 1892-1895

Return to Table of Contents

Series 3: Agreements, Deeds, and Leases, 1882-1949

Scope and Contents: This series contains tri-folded leases, agreements, and deeds for various Coxe properties and land in Pennsylvania.

Box 8, Folder 8	Blank agreement form for Coxe Brothers and Company, 1937
Box 8, Folder 9	Agreements and patent licenses (lists), 1899-1905
Box 8, Folder 10	Black Creek Improvement Company and Coxe Brothers and Company, 1895-1927
Box 8, Folder 11	Coxe Brothers and Company and A.F. Wolfe, 1909, 1946
Box 8, Folder 12	Coxe Brothers and Company and G. B. Markle Company, 1891, 1917
Box 8, Folder 13	Emeline L. Buckner and Eckley B. Coxe, et al., 1882
Box 8, Folder 14	Coxe heirs and Coxe Brothers and Company, 1925-02-1927
Box 8, Folder 15	Coxe Brothers and Company and Jeddo-Highland Coal Company, 1936-1942
Box 8, Folder 16	West Buck Mountain Coal and Iron Company and Coxe Brothers and Company, 1925
Box 8, Folder 17	Coxe Brothers and Company to J.S. Wentz Company, 1920
Box 8, Folder 18	G.B. Markle Company to Eckley Colliery (map), 1921
Box 8, Folder 19	Coxe Brothers and Company to Hazle Brook Coal Company, 1925
Box 8, Folder 20	Coxe Brothers and Company and Lehigh Valley Coal Company, 1925
Box 8, Folder 21	Coxe Brothers and Company and Wolfe Collieries, 1925, 1930-1931
Box 8, Folder 22	Coxe Brothers and Company and Pardee Brothers, 1930
Box 9, Folder 1	Coxe Brothers and Company and Haddock Mining Company, 1940
Box 9, Folder 2	Coxe Brothers and Company and Estate of Tench Coxe, 1938, 1942
Box 9, Folder 3	Coxe Brothers and Company and Jeddo-Highland Coal Company, 1920-1927
Box 9, Folder 4	Coxe Brothers and Company , Index to Mining Leases, 1882-1905
Box 9, Folder 5	Hazleton Coal Company to Cross Creek Coal Company, 1899
Box 9, Folder 6	Alexander B. Coxe to Coxe Brothers and Company, 1905

Box 9, Folder 7	Lease #7, Columbia Company (Council Ridge), undated
Box 9, Folder 8	Lease #8, Columbia Company (Beaver Meadows), undated
Box 9, Folder 9	Lease #20, Columbia Company (Deringer), undated
Box 9, Folder 10	Lease #21, Columbia Company (Drifton), undated
Box 9, Folder 11	Lease #21, Columbia Company (Eckley), undated
Box 9, Folder 6A	Lease #11, Columbia Company (Oneida), undated
Box 9, Folder 12	Lease #21, Columbia Company (Tomhicken), undated
Box 9, Folder 13	Lease #21, Columbia Company (Stockton), undated
Box 9, Folder 14	Lehigh Valley Coal Company, blanket lease, 1904
Box 9, Folder 15	Coal leases and tracts with Coxe family members, 1901
Box 9, Folder 16	Coxe Brothers and Company and G.B. Markle, 1919
Box 9, Folder 17	Coxe Brothers and Company and J.S. Wentz Company, 1917, 1921
Box 9, Folder 18	Coxe Brothers and Company and Harleigh Brookwood and Coal Company, 1913, 1919
Box 10	Beaver Meadow, Carbon County, Pennsylvania, 1913-1915, 1934
Box 10	Beaver Meadow/Mt. Laurel, 1949
Box 10	Black Creek Township, Pennsylvania (Deringer Colliery), 1940-1943
Box 10	Council Ridge Property, Anthracite Collieries, 1893-1946
Box 10	Delaware, Susquehanna and Schuylkill Railroad Company, 1910-1940
Box 10	Deringer Colliery, 1920-1943
Box 10	Drifton Township, Pennsylvania, 1941-1942
Box 11	Drifton Collieries, 1918-1942
Box 11	John Homer Gerhard and Mary R. Gerhard, 1940
Box 11	Hazle Spring Collieries Company, 1945

Box 11	Jeddo Highland Coal Company, 1912-1943
Box 12	Lehigh Valley Railroad Company, 1902-1949
Box 12	Morrellville Coal Mining Company, 1945
Box 12	Spring Mountain Colliery, Luzerne County, Banks Township, and Carbon County, Pennsylvania, 1946
Box 12	Stockton property, Hazle, County of Luzerne, Pennsylvania, 1931
Box 12	Deeds (with various individuals and organizations), 1946
Box 13, Folder 1	Agreements, deeds and leases, miscellaneous, undated

Return to Table of Contents

Series 4: Miscellaneous Documentation, 1866-1950

Box 13, Folder 2	Inventory (by drawer) for [correspondence], undated
Box 13, Folder 3	Production, monthly cost and output, 1929 Notes: Cost data for Beaver Meadows, Drifton, Eckley, Stockton, and Deringer collieries and railroad shipments.
Box 13, Folder 4	Store house inventory at Oneida Colliery, 1931
Box 13, Folder 5	Coal Mine Banks (off property), 1942-1950
Box 13, Folder 6	Estate of Henry B. Coxe, receipts to Alex B. Coxe, 1905-1906
Box 13, Folder 7	Iron Breaker at Drifton, Pennsylvania, 1891
Box 13, Folder 8	Coal receipt, 1866-11-22
Box 13, Folder 9	Lehigh Valley Coal Company, coal estimates (Tomhicken, Deringer, Hazleton Basin), 1912
Box 13, Folder 10	Coal estimate of Deringer, undated
Box 13, Folder 11	Memomranda of mine accounts, 1871-01-1871-12
Box 13, Folder 12	Coxe Brothers Company, royalty rates, undated
Box 13, Folder 13	Jeddo #7, silt bank deposits, 1926-1937
Box 13, Folder 14	Jeddo #4, refuse banks and deposits, 1946
Box 13, Folder 15	Coal tonage mined between triennials, 1931
Box 14, Folder 1	Coxe Brothers and Company, Inc. coal banks, 1930-1942
Box 14, Folder 2	Coxe Brothers and Company, Inc., assessment, 1934-1936
Box 14, Folder 3	Coxe Brothers and Company, Inc., standard rental list, 1930
Box 14, Folder 4	Report of tests of fieldspar, 1891, 1894
Box 14, Folder 5	Automatic stoker, Hazleton Plain Speaker , 1890s

Box 14, Folder 6	Drifton-Eckley-Council Ridge sketch showing route of [loco] roads, 1922

Return to Table of Contents

Series 5: Glass Plate Negatives and Photographs, 1890-1937

Scope and Contents: Most of the glass negatives appear to depict Coxe operations in and around Drifton, Pennsylvania. This town was the seat of Coxe operations and the site of at least one major colliery, the building of which is chronicled in many of the photographs. Several photos indicate that they were taken cicra 1893, and it may be possible to presume that many of the others were taken at the same time. Select copy prints were made from glass plate negatives.

Subseries 5.1: Glass Plate Negatives, circa 1893

Scope and Contents: The glass plate negatives are approximately 8 x 10 inches, and bear negative numbers handwritten at the bottom. These negatives were clearly understood by the Coxe company as part of a set of records for internal company use, and were numbered to enable their retrieval. It is important to note that some negatives that might seem like a logical series with the incremental construction of a breaker are not necessarily numbered consecutively. The negatives are not strictly business matters. Some depict people, and even a model train. Some of the glass plate negatives are smaller and unlabeled with negative numbers, but because of content and because they were found grouped together with the Coxe holdings they seem to belong with the other Coxe negatives.

Box 37, Folder 5	1-1, Large headframe/breaker building No. 43. Jacket indicates Drifton, Pennsylvania.
Box 37, Folder 6	1-2, Headframe No. 44 breaker building, probably same building featured in 1-1.
Box 31	1-3 Negative labeled Drifton No. 2 Breaker, 1893-03-05
Box 31	1-4, Wooden mine car, appears to be side-dumping design. Negative labeled No.59. Jacket says Drifton, Pennsylvania
Box 31	1-5, Photo of breaker, looking up the ramp from the ground. Appears to be same breaker as 1-1, 1-2. Negative No. 46.
Box 31	2-1, Breaker building, probably the same as those above, but viewpoint farther back. Small lumber storage area appears to be in foreground. Negative No. 223.
Box 31	2-2, Same breaker. Houses in background. The breaker dominates the living space. Jacket labeled Breaker 1 of 2
Box 31	2-3, Very similar shot to 2-2, but photo light proportions are better. Great shot. Negative No. 216. Jacket labeled Breaker 2 of 2.
Box 31	2-4, Breaker. Negative No. 47
Box 31	2-5, Railroad siding at Breaker. Saltbox-style houses in top left on hill. 5 workers in foreground. Negative No. 9.
Box 31	2-6, Jacket title "Railroad Siding at Breaker," though no breaker visible, No. 10

Box 31	2-7, A series of stone foundations stepped up the hillside, and a very light skeletal framework- perhaps the beginning of a breaker? Jacket labeled "breaker". Negative No. 31
Box 31	2-8, Skeletal structure of 2-7 is more distinct in this photo, and larger, plus a bit of a roof. Building a breaker. Negative No. 34
Box 31	2-9, Breaker under construction, appears to be further in progress than 2-8 (which is later in negative series). Negative No. 32. Breaker not enclosed yet. 4 sheave wheels visible in frame
Box 31	2-10, Different view of similar breaker construction. Negative No. 35
Box 31	2-11 Breaker under construction, figure with wheelbarrow in background. Negative No. 38
Box 31	2-12, Early stage of breaker construction, similar in chronology to No. 34. Stone foundations visible. Good view of timbered hillside opposite breaker. Negative No. 37
Box 31	2-13, Breaker under construction, similar to 2-10 and 2-11, looking at side of breaker. Negative No. 39
Box 31	2-14, Breaker under construction. Chronologically seems roughly to belong after negative 2-13. Three workers visible. Negative No. 40
Box 31	2-15, Breaker under construction. Should be after 2-14. No sheave wheels yet. Negative No. 42
Box 31	2-16, Breaker under construction. Sheave wheels in place, roof beginning to go on at top of breaker. Negative No, 11
Box 31	2-17, Breaker under construction. Roof looks complete and windows and siding are beginning to go on. Taken from uphill slope. Multiple figures present, though not in any obvious grouping. Negative No. 23
Box 31	2-18, Breaker under Construction. Chronologically probably belongs just before Square wooden pipeline visible in foreground. No sheave wheels. Negative No. 41
Box 31	2-19, Breaker under construction, approximately the same time as 2-18, but from opposite side. Negative No. 17
Box 31	2-20, Breaker under construction. Chutes in place, but none of the larger buildings that would house the tallest part of the hoist, etc. Probably belongs before 2-15. Negative No. 16
Box 31	2-21, Breaker under construction. Three figures visible on far right. No sheave wheels. Negative No. 28

Box 31	2-22, Breaker under construction. Seems to have immediately preceded 2-21. Negative No. 24
Box 31	2-23, Mine buildings. At least five major buildings, and more smaller ones, plus working yard. Some houses visible in background. Negative No. 219
Box 31	2-24, Some mine buildings, tracks, etc. Notes: Building in center-right of 2-23 with distinctive smokestacks appears in far left of this photo. Houses and town with two church steeples plus distinctive domed building appear near horizon. Negative No. 218
Box 31	3-1, Derringer Colliery [Coxe Brothers No. 3], miners village, with breaker in background. Two figures in immediate foreground, one standing with a bowler hat. This is a view looking east up the valley of Black Creek which is flowing westwards through town. Negative No. 220, undated Image(s): 3-1, Miners village, with breaker in background. Two figures in immediate foreground, one standing with a bowler hat. Negative No. 220
Box 31	3-2, Miner's village, identified on jacket as Drifton, Pennsylvania. Depicts houses, with yards, outhouses, etc. Negative No. 215
Box 31	3-3, Additional view of miner's village, identified as Drifton, Pennsylvania, on jacket. Could be panoramic continuation of 3-2. Includes long railroad-shed-like structure in lower right. Negative No. 217
Box 31	3-4, View of seven saltbox-style 2-family houses, plus one other, located parallel to a railroad track with high hills in immediate background. Negative No. 221
Box 31	3-5, View of mining town during winter. This negative is smaller and does not obviously belong to the "set" of the earlier negatives in and around Drifton, Pennsylvania. The jacket is unlabeled. Houses of various sizes visible
Box 31	3-6, View of mining town. Negative is same size as in 3-5. Houses in background, also a church; railroad runs through foreground. No labels on negative jacket
Box 31	3-7, Appears to be a view down a street in a mining village after a snowstorm. A woman plus four children are visible on the porch of one saltbox-style house. There appear to be ruts and drifts of snow in what would ordinarily be the street
Box 31	3-8, Group of 22 people in front of building, which appears to house a Western Union telegraph office. Notes: Most of the people are men, almost entirely in suits. At least four boys, two with bicycles, also appear, and two appear to be wearing the uniform of a Western Union telegraph messenger. What may be a woman (but is perhaps a man) is looking out from the window of the building with her hand over her mouth, as though surprised or in the act of coughing

Box 31	3-9, Photo similar to 3-8, appears to be of many of the same people, in front of what seems to be the same building. Notes: Sixteen people appear in this photo. There is no figure in the window as with 3-8, and the Western Union sign in the window in 3-8 is not at the appropriate angle to be seen in this photo.
Box 31	3-10, Group photo, in front of unidentified wooden building. Twenty-eight figures appear in this portrait, including at least four women, and men in suits
Box 31	3-11, Group photo, of what could be an extended family, with a fairly even ratio of adults to children, and the un-posed family dog. Notes: Thirty-four people appear in the group, plus the dog; two more look out from a window in the building behind them, one of whom leans on the windowsill with an open, swing-topped bottle in his hand. Many, though not all, of the people are dressed in what could be their Sunday finest.
Box 31	3-12, Two men stand in front of what is apparently a model railroad, with "D. S. & S." markings Notes: One man, standing upright, is resting his hand on the top of the cab of the locomotive. The setup includes several flatcars, a boxcar marked "Powder-handle carefully" and perhaps a gondola car, in addition to two locomotives. The locomotives are labeled D.S.& S. 3 and D.S.& S. 4., and run on rails. This setup appears to be a fenced pasture or field of some kind. Negative No. 152. No markings on jacket.
Box 31	3-13, Miners - Drifton, Pennsylvania Notes: Twenty-two men are in picture, posed in front of what appears to be a breaker. Two have teapot-style oil lamps attached to their hats, and one of the latter also has what looks like a pair of outside calipers attached to his pants with a loop and hook. Negative is broken into one large piece and one small piece.
Box 31	3-14, Church, with a distinctive dome structure. Notes: Main portion of church has pyramidal roof, with large hemispherical dome protruding from it. From the apex of the hemisphere rises a short, octagonal tower with talianate details, capped by an eight-paneled hemispherical dome, with a double cross on lop. The front portion of the church has a peaked roof with the gable-end toward the front of the building (with a door in it). It is topped by a four-sided bell lower, with bells visible, and the bell tower is topped by a rather slender onion dome with a sphere on top of the slender part, and a cross above that, with three crossbars, two in standard double cross style, and a third below them at an angle. A house next door is plainly visible, with Queen Anne details. In the left foreground appear two blurry animals, which may be pigs foraging for food in the street.
Box 31	3-15, Coxe Estate Coal Laboratory Drifton, Pennsylvania Notes: There are two workbenches, one with a large assortment of chemicals on shelves and a bunch of laboratory glassware, including

Erlenmeyer flasks and boiling flasks, jars of acids, burners, etc. A shelf is occupied with a bunch of what appear to be cigar boxes, perhaps containing samples. A desk is surmounted with a bookshelf. A Calendar from "G. Wash. Jackson, Printer and Binder" of Philadelphia is hung on the wall, and shows November 1893. The room appears to be lighted by gas. Negative No, 57. N.B. - another glass negative of the Coal Laboratory exists, broken into several pieces. This other one is Negative No. 58, and the same table appears in the foreground, from the other side-the photographer clearly took his camera to the other side of the room to get a shot of the other side. This broken negative includes a rather early looking exhaust hood.

Box 31 — Negative 58, Coxe Estate Coal Laboratory, interior view, Drifton, Pennsylvania, 1893

Box 31 — 3-16, Small parade, with an American flag and a small marching band out front, followed by a large group at same place as 3-7.
Notes: Same saltbox-style house with porch in immediate background (flying 3 American flags). The debris pile to the far right also appears similar. Some people and objects (telegraph pole) cast shadows.

Box 31 — 3-17, Photograph of a man in a soldier's uniform and gear, carrying a rifle, on a horse.
Notes: The horse is being held by a young boy. Horseman has mustache and short beard and wears a slouch cap. A long sword dangles, and he wears a round medal, hung from an upside-down triangle with three circular devices on the horizontal part, over his left breast. Two rolled packs hang lengthwise, one in front of the rider and one behind, and a tin cup and canteen dangle on the side.

Box 31 — 3-18, "Coxe Estate, Funeral Wreath, Eckley B. Coxe" made of roses and other foliage, with a signed picture of Coxe in the center, and a sign "Empoyees -Coxe Iron Mfg Co."

Box 31 — 3-19, Coxe Estate - Children
Notes: Unclear as to whether these are random children and the photo is part of the Coxe collection, or that these are actually the descendants of the Coxes. Five children appear in the 3-19 photo. The three oldest are boys, then a young girl, and a baby that looks like a girl but keeping in mind the different standards of dress for babies, could perhaps be a boy. The background appears to be a backdrop with some kind of vaguely baroque architectural details.

Box 31 — 3-20, Saltbox-style house with the same snow.
Notes: Image similar to 3-7. Only three children are on the porch, the mother and baby in the earlier photo apparently having gone inside. Picture is labeled "Drifton clad in Snow March 5th 1893. At 9:30 AM Good Light" The photographer did a series of test exposures, which are labeled (lightest to darkest) 1/2 Sec, 1 Sec ~ 1 Sec, 2 Sec, 2 1/2 Sec.

Box 31	3-21, "Coxe Estate- Family" Whether it's the Coxe family, mother, father, two boys, a girl, and a baby in front of a house
Box 31	3-22, Large Group photo, jacket labeled Coxe Estate-Breaker Boys. Photo shot in front of large building with lots of windows, quite possibly [Drifton #2?]
Box 31	3-23, Small group photo in front of breaker, with whole breaker building visible. Jacket identifies tilts as "breaker boys", and these subjects look young enough to be them. Those in 3-22 look a bit older in some cases. Negative No. 45
Box 31	4-1, Railroad Roundhouse". Neg No. 205 Notes: Lower right corner of negative missing. Train outside roundhouse. Possible identical print in the collection this is presumably Delaware Susquehanna & Schuylkill Railroad.
Box 31	4-2, "Mahanoy Planes". Neg. No 321
Box 33	4-3, "Mahanoy Planes." Neg No. 324- shows internal machinery, probably of breaker
Box 33	4-4, "Mahanoy Planes." Neg No. 323. shows building, and what might be top of plane
Box 33	4-5, "Mahanoy Planes." Neg No. 325 - Shows machinery inside a building, apparently at ground floor level
Box 33	4-6, "Mahanoy Planes." Neg No. 322. Other side of the buildings shown in Neg No. 323. Boxcar with "R.L." in center of picture
Box 33	4-7, "Mahanoy Planes." Neg No. 319. Man standing in front of building visible in Negs. 322 and 323
Box 33	4-8, "Mahanoy Planes." Neg No. 320. Apparently the reverse side of the view of Neg. 325
Box 33	4-9, "Mahanoy Planes." Neg No. 318. Boiler room, using Sterling Boilers
Box 33	4-10, "Mahanoy Planes." Neg No. 327. Boilers
Box 33	4-11, "Mahanoy Planes." Neg No. 328. Catwalks and machinery, apparently near boilers
Box 33	4-12, Coxe Estate, Delaware, Susquehanna and Schuylkill Railroad, model Plan." Neg No. 154 Notes: Most of the following photos of the Delaware Susquehanna & Schuylkill Railroad model locomotives are also held in print form. This is a photo of a large engineering drawing for the model locomotive. It's also worth noting how they tacked up the drawing.

Box 33	4-13, Coxe Estate, Delaware, Susquehanna and Schuylkill Railroad, model locomotive #3. No neg number. with model locomotive #3 on tracks in wooded area
Box 33	4-14, Coxe Estate, Delaware, Susquehanna and Schuylkill Railroad, Model locomotive #3. Notes: The emulsion appears to have some bad bubbles or scratches or streaks. Boy with toy locomotive 73 appears to be the same boy as 4-13, above, though a slightly different camera angle
Box 33	4-15, Coxe Estate, Delaware, Susquehanna and Schuylkill Railroad, Model locomotive #4. No negative number. Notes: The emulsion on this one is scratched as well, though it appears to be only over part of the engine boiler and the cab of locomotive #4, but it seems to be the same boy.
Box 33	4-16, Coxe Estate, Delaware, Susquehanna and Schuylkill Railroad, Model Train." Neg. No. 153 Notes: Shot of locomotive #3 and #4, as well as a variety of rolling stock, in the wooded area seen before. Two people visible, though it is not immediately obvious if one of them is the boy in the above photographs.
Box 33	4-17, Coxe Estate, Delaware, Susquehanna and Schuylkill Railroad, Model locomotive. Notes: Shows model locomotive 43, with a boy, though this one might be different than the one in the above pictures. House and fence visible in the background. Emulsion scratched around locomotive boiler.
Box 33	4-18, Shot of locomotive #4 in same position as in 4-17 with perhaps the same boy. Also has emulsion scratched on locomotive boiler. No negative number
Box 33	4-19, Model locomotive 43, with boy. Neg No. 150
Box 33	4-20, Coxe Estate, Delaware, Susquehanna and Schuylkill Railroad, Model locomotive 43 Notes: Boy and locomotive 43 in wooded area. Negative is a little light, so print might be too dark. There is also what looks like an errant pen streak, of the sort used by photographers, near the locomotive's smokestack.
Box 33	4-21, Coxe Estate, Delaware, Susquehanna and Schuylkill Railroad, model locomotive 44 Notes: No negative number. Boy with locomotive 44 in wooded area. I'm confident that this person is in at least some of the above pictures of the model locomotives. Streaks along the locomotive boiler, presumably to erase glare.
Box 33	4-22, Coxe Estate, Delaware, Susquehanna and Schuylkill Railroad Model, locomotive 44, Negative Number 149

Notes: Smaller than normal negative, but jagged edge along bottom may suggest that it was cut down from a larger glass plate.

Subseries 5.2: Photographs, 1890-1937

Box 32, Folder 1	Coal Sieve, single screen, view 1, undated
Box 32, Folder 2	Coal Sieve, single screen, view 2, undated
Box 32, Folder 3	Coal Sieve, single screen, view 3, undated
Box 32, Folder 4	Coal Sieve, single screen, view 4, undated
Box 32, Folder 5	Coal Sieve, single screen, view 5, undated
Box 32, Folder 5A	Coal Sieve, single screen, view 6, undated
Box 32, Folder 6	Coal Sieve, single screen, view 7, undated
Box 32, Folder 6A	Coal Sieve, single screen, view 8, undated
Box 34, Folder 1	Coal sieve, single screen, view 9, undated
Box 34, Folder 2	Coal sieve, single screen, view 10, undated
Box 34, Folder 3	Coal sieve, single screen, view 11, undated
Box 34, Folder 4	Coal sieve, single screen, view 12, undated
Box 34, Folder 5	Coal sieve, single screen, view 13, undated
Box 34, Folder 6	Coal sieve, single screen, view 14, undated
Box 34, Folder 7	Coal sieve, single screen, view 15, undated
Box 34, Folder 8	Coal sieve, single screen, view 16, undated
Box 34, Folder 9	Coal sieve, single screen, view 17, undated
Box 34, Folder 10	Coal sieve, single screen, view 18, undated
Box 32, Folder 7	Coal Sieve, double screen, view 1, undated
Box 32, Folder 8	Coal Sieve, double screen, view 2, undated
Box 32, Folder 9	Coal Sieve, double screen, view 3, undated

Box 32, Folder 10	Coal Sieve, double screen, view 4, undated
Box 32, Folder 11	Coal Sieve, double screen, view 5, undated
Box 32, Folder 12	Coal Sieve, double screen, view 6, undated
Box 32, Folder 13	Coal Sieve, double screen, view 7, undated
Box 32, Folder 14	Coal Sieve, double screen, view 8, undated
Box 32, Folder 15	Coal Sieve, double screen, view 9, undated
Box 32, Folder 16	Coal Sieve, double screen, view 10, undated
Box 32, Folder 17	1-1, Large headframe/breaker building No. 43. Jacket indicates Drifton, Pennsylvania.
Box 32, Folder 18	1-2, Headframe No. 44 Breaker building, probably same building featured in 1-1.
Box 32, Folder 19	1-3 Negative labeled Drifton No. 2 Breaker, March 5lh, 1893.
Box 32, Folder 20	1-4, Wooden mine car, appears to be side-dumping design. Negative labeled No.59. Jacket says Drifton, Pennsylvania
Box 32, Folder 21	1-5, Photo of breaker, looking up the ramp from the ground. Appears to be same breaker as 1-1, 1-2. Negative labeled No.46.
Box 32, Folder 22	2-1, Breaker building, probably the same as those above, but viewpoint farther back. Small lumber storage area appears to be in foreground. Negative labeled No. 223.
Box 32, Folder 23	2-4, Breaker. Negative labeled No. 47.
Box 32, Folder 24	2-7, A series of stone foundations stepped up the hillside, and a very light skeletal framework- perhaps the beginning of a breaker? Jacket says "breaker". Negative No. 31. Negative is rather dark.
Box 32, Folder 25	2-8, Skeletal structure of 2-7 is more distinct in this photo, and larger, plus a bit of a roof. Negative No. 34.
Box 32, Folder 26	2-9, Breaker under construction, though it definitely seems to be further in progress than 2-8 (which is later in negative series). Negative No. 32. Breaker not enclosed yet. 4 sheave wheels visible in frame.
Box 32, Folder 27	2-10, Different view of similar breaker construction. Negative No. 35.
Box 32, Folder 28	2-11, Breaker under construction, figure with wheelbarrow in background. Negative No. 38.

Box 32, Folder 29	2-12, Early stage of breaker construction, similar in chronology to No. 34. Stone foundations visible. Good view of timbered hillside opposite breaker. Negative No. 37.
Box 32, Folder 30	2-13, Breaker under construction, similar to 2-10 and 2-11, looking at side of breaker. Negative No. 39.
Box 32, Folder 31	2-14, Breaker under construction. Chronologically seems roughly to belong after but before 2-13. 3 workers visible. Negative No. 40.
Box 32, Folder 32	2-16, Breaker under construction. Sheave wheels in place, roof beginning to go on at top of breaker. Negative No, 11
Box 32, Folder 33	2-17, Breaker under construction. Roof looks complete, and windows and siding are beginning to go on. Taken from uphill slope. Multiple figures present, though not in any obvious grouping. Negative No. 23.
Box 32, Folder 34	2-18, Breaker under construction. Chronologically probably belongs just before Square wooden pipeline visible in foreground. No sheave wheels. Negative No. 41 .
Box 32, Folder 35	2-19, Breaker under construction, approximately the same time as 2-18, but from opposite side. Negative No. 17.
Box 32, Folder 36	2-20, Breaker under constuction. Chutes in place, but none of the larger building that would house the tallest part of the hoist etc. Probably belongs before 2-15. Negative No. 16.
Box 32, Folder 37	2-21, Breaker under construction. Three figures visible on far right. No sheave wheels. Negative No. 28.
Box 32, Folder 38	2-22, Breaker under constuction. Seems to have immediately preceded 2-21. Negative No. 24.
Box 32, Folder 39	2-24, Some mine buildings, tracks, etc. Building in center-right of 2-23 with distinctive smokestacks appears in far left of this photo. Houses and town with two church steeples plus distinctive domed building appear near horizon. Negative No. 218.
Box 32, Folder 40	4-1, Railroad Roundhouse". Neg No. 205. Lower right corner of negative missing. Train outside roundhouse, possibly Delaware Susquehanna & Schuylkill Railroad
Box 32, Folder 41	4-12, Coxe Estate Delaware, Susquehanna and Schuylkill Railroad, model plan. Neg No. 154.
Box 32, Folder 42	4-13, Coxe Estate, Delaware, Susquehanna and Schuylkill Railroad, model locomotive #3. No neg number. Boy with model locomotive #3 on tracks in wooded area.

Box 32, Folder 43	4-14, Coxe Estate Delaware, Susquehanna and Schuylkill Railroad model locomotive #3. Notes: No negative number. The emulsion appears to have some bad bubbles or scratches or streaks. Boy with toy locomotive #73, it appears to be the same boy as 4-13, above, though a slightly different camera angle.
Box 32, Folder 44	4-17, Coxe Estate, Delaware, Susquehanna and Schuylkill Railroad, model locomotive Notes: No neg number. Shows model locomotive 43, with a boy, though this one might be different than the one in the above pictures. House and fence visible in the background.
Box 32, Folder 45	4-20, Coxe Estate, Delaware, Susquehanna and Schuylkill Railroad, model locomotive 43." Boy and locomotive 43 in wooded area.
Box 32, Folder 46	4-23, Coxe Estate, Delaware, Susquehanna and Schuylkill Railroad, model locomotive 43." Negative number 148. Boy with locomotive 43
Box 32, Folder 47	Dwelling properties of Coxe Brothers & Company, Inc. near Hazleton (map), 1931-10
Box 32, Folder 48	Cross Creek Coal office, shipping receipt, 1866
Box 32, Folder 49	Delaware, Susquehanna and Schuylkill Railroad model, 1380, 3 3/87, 5, undated
Box 32, Folder 50	D.S. & S. Railroad model, locomtove # v3, undated
Box 32, Folder 51	Coxe Mirror and Sun Motors, 1920s
Box 32, Folder 52	Horizontal conveyors with Dodge chain drive, 722 Link Belt Engineering, undated
Box 34, Folder 11	Coal sieve, double screen, view 11, undated
Box 34, Folder 12	Coal sieve, double screen, view 12, undated
Box 34, Folder 13	Coal sieve, double screen, view 13, undated
Box 34, Folder 14	Coal sieve, double screen, view 14, undated
Box 34, Folder 15	Coal sieve, double screen, view 15, undated
Box 34, Folder 16	Coal sieve, double screen, view 16, undated
Box 35, Folder 1	Daniel H. Hastings #17 locomotive, D.S. & S, undated
Box 35, Folder 2	Drifton Colliery, 1937

Box 35, Folder 3	Coxe Brothers and Company, locomotive #10, undated
Box 35, Folder 4	Coxe Iron Manufacturing Co., Drifton, Pennsylvania, undated
Box 35, Folder 5	Coxe Bros. and Co., locomotive #15, undated
Box 35, Folder 6	Oneida Colliery hoist breaker construction (A-1 , A-2), 1890
Box 35, Folder 7	Oneida Colliery hoist breaker construction (B1 to B-3), 1890
Box 35, Folder 8	Oneida Colliery hoist breaker construction (C-1), 1890
Box 35, Folder 9	Oneida Colliery hoist breaker construction (D-1 to D-3), 1890
Box 35, Folder 10	Oneida Colliery hoist breaker construction (E-2, E-4, E-5), 1890
Box 35, Folder 11	Oneida Colliery hoist breaker construction (F- 1 1/2, F-2, F-4), 1891
Box 36, Folder 1	Oneida Colliery hoist breaker construction (G-1, G-2, G-4 1/2, G-6), 1891
Box 36, Folder 2	Oneida Colliery hoist breaker construction (H-1, H-4 1/2), 1891
Box 36, Folder 3	Oneida Colliery hoist breaker construction (I-1, I-2, I-5), 1891
Box 36, Folder 4	Oneida Colliery hoist breaker construction (J-1 1/2, J-2), J-4 1/2), 1891
Box 36, Folder 5	Oneida Colliery hoist breaker construction (K-1, K-4 1/2, K-6), 1891
Box 36, Folder 6	Oneida Colliery hoist breaker construction (L, L-3), 1891
Box 36, Folder 7	Oneida Colliery hoist breaker construction (M), 1891
Box 36, Folder 8	Oneida Colliery hoist breaker construction (N), 1891
Box 37, Folder 1	[Colliery?], undated
Box 37, Box 2	Engines, unidentified, undated
Box 37, Box 3	Miscellaneous anthracite photographs, undated
Box 37, Box 4	Coxe Iron Works, Traveling Grate, Drifton, Pennsylvania,, 1894
Box 38, Folder 13	Coxe Bros. and COmpany, Inc. Drifton Breaker, [1920s?]

Box 38, Folder 14	Cross Creek Colliery, Drifton, Luzerne County, Pennsylvania, Breaker No. 2, [1880s]

Return to Table of Contents

Series 6: Drawings, 1885-1991

Scope and Contents: The drawings consist of geological surveys, land ownership, mine development and operations, mine buildings, mine services, railroads, equipment, site plans, plats, charts, diagrams, engineering drawings and sketches.

This subseries also includes a variety of inventories, lists, and indices for the drawings. Coxe Brothers maintained a method of indexing their drawings and maps using index cards. Only some of the index cards exist and can be found in Box 16, Folder 15.

The drawings fall into three broad categories:

Flat drawings (generally 24" x 36" but some smaller and larger) organized by "groups" (e.g. Boiler Building and Equipment, Group 3) and organized thereafter numerically by a drawing number (e.g. 62). In some instances not all drawings from the orignal indices exist and therefore are not present and some numbers were not used. When possible, the processing archivist noted if a number was not used and where drawings are "missing."

The small drawings are designated numerically (e.g. 3-1, Steam, air and fresh water lines)

Drawings that are colliery specific have an alpha numeric designation (e.g. CR-#A, Pumps). The latter also includes correspondence with other companies that provided equipment or services, proposals, estimated cost sheets, purchaing orders, work orders, agreements, trade literature, bills for materials, and proposals.

Subseries 6.1: Inventories/Indices, 1890-1991

Box 14, Folder 7	Inventory, C-1 to C-801, undated
Box 14, Folder 8	Drawing list (1-2930), 1890s
Box 14, Folder 9	Drawing index for 2931-3000 (loose pages), undated
Box 14, Folder 10	Inventory for Drawing Groups 1-15, (original list), undated
Box 14, Folder 11	Inventory for Drawing Group 1, (Breaker Building Construction), undated
Box 14, Folder 12	Inventory for Drawing Group 2, (Breaker Coal Cleaning Processing Equipment), undated
Box 14, Folder 13	Inventory for Drawing Group 3, (Boiler Building and Equipment), undated
Box 14, Folder 14	Inventory for Drawing Group 4, (Small Drawings and Miscellaneous Lehigh Valley Coal Company), undated
Box 15, Folder 1	Inventory for Drawing Group 5, undated
Box 15, Folder 2	Inventory for Drawing Group 6, undated
Box 15, Folder 3	Inventory for Drawing Group 7, undated

Box 15, Folder 4	Inventory for Drawing Group 8, undated
Box 15, Folder 5	Inventory for Drawing Group 9, undated
Box 15, Folder 6	Inventory for Drawing Group 10, undated
Box 15, Folder 7	Inventory for Drawing Group 11, undated
Box 15, Folder 8	Inventory for Drawing Group 12, undated
Box 15, Folder 9	Inventory for Drawing Group 13, undated
Box 15, Folder 10	Inventory for Drawing Group 14, undated
Box 15, Folder 11	Inventory for Drawing Group 15, undated
Box 16, Folder 5	Equipment Buildings Survey (4-1), 1991
Box 16, Folder 6	Equipment Buildings Survey (4-2), 1991
Box 16, Folder 7	Equipment Buildings Survey (4-5), 1991
Box 16, Folder 8	Equipment Buildings Survey (4-6), 1991
Box 16, Folder 9	Equipment Buildings Survey (4-7), 1991
Box 16, Folder 10	Equipment Buildings Survey (4-8), 1991
Box 16, Folder 11	Equipment Buildings Survey (4-9), 1991
Box 16, Folder 12	Equipment Buildings Survey (4-11), 1991
Box 16, Folder 13	Equipment Buildings Survey (6-58), 1991
Box 16, Folder 14	Equipment Buildings Survey (15), 1991
Box 16, Folder 15	Index cards for drawings [by location and type], undated

Subseries 6.2: Drawings, Breaker Building Construction (Group 1)

Map-folder 1	1, Window Arrangement for Drifton Breaker, undated
Map-folder 1	2, Bents EH, Drifton Breaker, undated
Map-folder 1	3, Bents A & B, Drifton Breaker, undated

Map-folder 1	4, Bents 1-2-3-4, Drifton Breaker, undated
Map-folder 1	5, Bents C & D, Drifton Breaker, undated
Map-folder 1	6, Bents 5-6-7, Drifton Breaker, undated
Map-folder 1	7, Bents A-B-C, Drifton #2 Breaker, undated
Map-folder 1	8, Bents D & E, Drifton,#2 Breaker, undated
Map-folder 1	9, Bents F & G, Drifton #2 Breaker, undated
Map-folder 1	10, Bents H & I, Drifton #2 Breaker, undated
Map-folder 1	11, Lip Chute for Loading Belt, Drifton #2, undated
Map-folder 1	12, Chutes for Drifton Breaker, undated
Map-folder 2	13, Girts and Window for old part of Breaker, undated
Map-folder 2	14, Relocation of Shakers, undated
Map-folder 2	15, Elevation & Details of Shakers and Machinery, undated
Map-folder 2	16, Elevation & Bent Details of Beaver Greek Washery, undated
Map-folder 2	17, Bents 5 to 13 and details of Conveyor #2 Conveyor #3 Pockets, undated
Map-folder 2	18, Alteration of Shaker Arrangement, undated
Map-folder 2	19, Installation of two Picking Tables, undated
Map-folder 2	20, Plan & Elevation Leviston Washery, undated
Map-folder 2	21, Leviston Washery, Beaver Meadows Colliery, undated
Map-folder 2	22, Condemned Coal and Lip Screenings Conveyors, undated
Map-folder 2	23, Drifton #2 Breaker, undated
Map-folder 2	25, Prints of Drifton #2 Breaker, undated
Map-folder 2	26, Drifton #2 Breaker, undated
Map-folder 2	27, Drifton #2 Breaker, undated
Map-folder 2	28, No Identification, undated

Map-folder 2	29, Bill of material for Bracing and Truss Rods, undated
Map-folder 2	30, Dump Chute Plates, Drifton #2 Breaker, undated
Map-folder 3	31, Stirrups for Chute Plates, Drifton #2 Breaker, undated
Map-folder 3	32, Stay Rods for Lump and Steamboat Chute, D, Breaker, undated
Map-folder 3	33, Stirrups for Chute Plates, Drifton #2 Breaker, undated
Map-folder 3	34, Pump and Steamboat Loading Lip, Breaker, undated
Map-folder 3	35, Brackets for Stirrups #2 Breaker, undated
Map-folder 3	36, Stirrups for Chute Plate, Drifton #2 Breaker, undated
Map-folder 3	37, Bill of lading for lumber for #2 Breaker, undated
Map-folder 3	38, Section of Window Casing Supports, Drifton #2 Breaker, undated
Map-folder 3	39, Brackets for Platform support, Drifton #2 Breaker, undated
Map-folder 3	40, Castings for Iron Breaker Scales, undated
Map-folder 3	41, Miscellaneous details for #2 Drifton Breaker, undated
Map-folder 3	42, Details for #2 Drifton Iron Breaker, undated
Map-folder 3	43, Miscellaneous Details of #2 Drifton Breaker, undated
Map-folder 3	44, Truss Rods for Jug House #2 Breaker, Drifton, undated
Map-folder 4	45, Arrangement of Cage Hoist and Part of Breaker, undated
Map-folder 4	46, Section of Bent C, undated
Map-folder 4	47, Arrangement of Loading Lips and Tracks for B, Meadow Breaker, undated
Map-folder 4	48, No Identification, undated
Map-folder 4	49, Section Breaker, undated
Map-folder 4	50, Posts and Supplies, undated
Map-folder 4	51, Section of Bent B, undated
Map-folder 4	52, Section of Bent D, undated

Map-folder 4	53, Section of Bent E, undated
Map-folder 4	54, Section of Bent F, undated
Map-folder 4	55, Section of Bent G, undated
Map-folder 4	56, Section of Bent H, undated
Map-folder 5	57, Section of Bent J, undated
Map-folder 5	58, Slide Elevation of Eckley Breaker, undated
Map-folder 5	58, Eckley Breaker, undated
Map-folder 5	59, Details of Bents Beringer Breaker, undated
Map-folder 5	60, Cast Washer for Eckley Breaker, undated
Map-folder 5	61, Plate IV Eckley Breaker, undated
Map-folder 5	62, Conveyor Pit, Eckley Breaker, undated
Map-folder 5	63, Wood struct improved, Eckley Breaker, undated
Map-folder 5	64, Wood struct improved, Eckley Breaker, undated
Map-folder 5; Map-folder 102	65, Deringer Breaker, undated
Map-folder 5	66, Bill of material for Coal. Breaker, undated
Map-folder 5	67, Detail of Bent, Derringer Breaker, undated
Map-folder 6	68, Coal Breaker wood struct, undated
Map-folder 6	69, Details of Bent Breaker, undated
Map-folder 6	70, Lump Coal and Rock Chutes, undated
Map-folder 6	71, Miscellaneous details for Tornhicken Breaker, undated
Map-folder 6	72, Coal Breaker iron structure, undated
Map-folder 6	73, Outline drawing of Tripple, Stockton #7, undated
Map-folder 7	74, Egg Coal Pocket, undated

Map-folder 7	75, Stove Coal Pocket, undated
Map-folder 7	76, Nut Coal Pocket, undated
Map-folder 7	77, Lime mixing plant for Beaver Meadow, undated
Map-folder 7	78, Elevation Bent #4 looking North, undated
Map-folder 7	79, Elevation looking East and North, undated
Map-folder 7	80, Elevation Bent #7 looking North, undated
Map-folder 7	81, General arrangements of 5-GX28—D lump and Steamboat, undated
Map-folder 7	82, General arrangement of Pits and dump house, undated
Map-folder 7	83, Plan of Buck-Rice & Barley tables & Shaking chutes, undated
Map-folder 7	84, Arrangement of Windows, undated
Map-folder 7	85, Roof Section, undated
Map-folder 7	86, Chute Section, undated
Map-folder 7	87, Section of Bents 1 to D Iron Structure, undated
Map-folder 7; Map-folder 8	92, Bill of material for Coal Breaker, undated
Map-folder 8	93, Unidentified, undated
Map-folder 8	94, Bent F, undated
Map-folder 8	95, Unidentfied, undated
Map-folder 8	96, Showing position of Lips of corresponding letters, undated
Map-folder 8	97, Tank Onida, undated
Map-folder 8	98, Goal adjustable Loading Lip, undated
Map-folder 8	99, Broken and Egg Loading Lip, undated
Map-folder 8	100, Stove and Chestnut Loading Lip, undated
Map-folder 8	101, Latch for four Rail Barney Plane, undated

Map-folder 8	102, Broken & Egg Loading Lip, undated
Map-folder 8	103, Steamboat Conveyor emptying into Mud Screen, undated
Map-folder 8	104, 1/8" Scale Datum Sketches, undated
Map-folder 8	106, Rock Chute Gate, undated
Map-folder 8	107, Details of Bracket Pedestal for Oscilating Bars, undated
Map-folder 8	108, Elevator Tower, undated
Map-folder 8	109, Tread Sheavers, undated
Map-folder 8	110, Rock Chute, undated
Map-folder 8	111, Gates for Pea and Buckwheat, undated
Map-folder 8	112, Castings for Iron Breaker, undated
Map-folder 9	Plan of Breaker Foundation walls, undated
Map-folder 9	Cross Creek Coal, undated
Map-folder 9	Beaver Meadows, undated

Subseries 6.3: Drawings, Breaker Coal Cleaning Processing Equipment (Group 2)

Map-folder 15	1, Machinery Plan of Drifton #2 Breaker, undated
Map-folder 10	2, Elevation of addition to Drifton #2 Breaker, undated
Map-folder 10	3, Belt Loading Chutes and Details for Drifton #2 Breaker, undated
Map-folder 10	4, Belt Loader, undated
Map-folder 10	5, Machinery Plan, Drifton #2 Breaker Coal parts, undated
Map-folder 10	6, Machinery Plan, remodeling Beaver Meadow Breaker, undated
Map-folder 10	7, Alteration to Jig Shafting, Drifton #2 Breaker (new parts), undated
Map-folder 10	8, List of standard. Bolts used and Cotters, undated
Map-folder 10	9, Manganese Steel Segment, undated

Map-folder 10	10, 75 Tooth 2 Pitch Spur Wheel, 13 Tooth 2 Pitch Shrouded Pinion, undated
Map-folder 10	11, Foot Shaft Bearing, undated
Map-folder 10	12, Finger Bars in Lamp Coal Chute at Loading Lip, undated
Map-folder 10	13, Finger Bars, Dump Chute Bars, undated
Map-folder 11	14, Finger Bars, Dump Chute Bars, undated
Map-folder 11	15, Shafting in #2, Drifton Breaker, undated
Map-folder 11	16, Shafting in #2, Drifton Breaker, undated
Map-folder 11	17, Shafting in #2, Drifton Breaker, undated
Map-folder 11	18, Loading Lip for Drifton #2, undated
Map-folder 11	19, Unidentified, undated
Map-folder 11	20, Retaining Wall Plates, undated
Map-folder 11	21, Dump Chute Plates, undated
Map-folder 11	22, Finger Bars in Lump: and Steamboat Chute at Loading Lips, undated
Map-folder 11	23, Beaver Meadow Elevator Foot for 2nd Lift, undated
Map-folder 11	24, Plan of Screens, undated
Map-folder 11	25, Plan of Shaking Screen Rods, undated
Map-folder 11	26, General Plan of Jigs, undated
Map-folder 11	27, Plan of Aprons for Girator, undated
Map-folder 11	28, No Identification, undated
Map-folder 11	29, Trough Stationary and Movable Carriage and Pushers, undated
Map-folder 12	30, Unidentified, undated
Map-folder 12	31, Details for 2nd Lift Elevator, undated
Map-folder 12	32, Unidentified, undated
Map-folder 12	33, Details first Lift Elevator Hopper, undated

Map-folder 12	34, Beaver Meadow Elevator Foot for first Lift, undated
Map-folder 12	35, Beaver Meadow Elevator Head for first Lift, undated
Map-folder 12	36, Details of Elevator 2nd Lift, undated
Map-folder 12	37, Details for first Lift Elevator, undated
Map-folder 12	38, No Identification, undated
Map-folder 12	39, Note for details of Crushers and Foundation Section, undated
Map-folder 12	40, Part Section Showing New Wilmot Jigs, undated
Map-folder 12	41, Unidentified, undated
Map-folder 12	42, Breaker Machinery, undated
Map-folder 13	43, Section of Breaker, undated
Map-folder 13	44, Plan of Breaker, undated
Map-folder 13	45, General Section of Bent F, undated
Map-folder 13; Map-folder 94	46, Details for Beaver Meadow Breaker, undated
Map-folder 13; Map-folder 94	47, Pinion for Coal Rolls, undated
Map-folder 13; Map-folder 94	48, Water and Dirt Conveyor Under Pocket, undated
Map-folder 13; Map-folder 94	49, Details of 8 Ft. scale, 1 1/2" and 3" to 1 foot, undated
Map-folder 13; Map-folder 94	50, Details of 8 ft. scale, 1 1/2" and 3" to 1 foot, undated
Map-folder 13	51, General arrangement of 8 foot, undated
Map-folder 13; Map-folder 94	52, Detail numbers for Oscillating Bars at different places, undated
Map-folder 13;	53, Detail of 6 Ft Shaker for Temple Iron Company, undated

Map-folder 94	
Map-folder 13; Map-folder 94	54, Details of 8 Ft, Shaker for Summit Branch R.R. Company, undated
Map-folder 13	55, General arrangement of Bars for Nova Scotia, undated
Map-folder 13	56, 6 Ft, Shaker Bars for Temple Iron Company, undated
Map-folder 13; Map-folder 94	56, Miscellaneous details for Shakers, undated
Map-folder 13	56, Details of Shaker Bars, undated
Map-folder 13	56, General Drawing of Shaker Bars, undated
Map-folder 13	56, Details for 10 Ft. Shaker for Beaver Meadow Breaker, undated
Map-folder 13	56, Detail of 10 Ft. L. V. Coal Company, Franklin Call, undated
Map-folder 13	56, Gates and Beaver for back end of Shaker Cars, undated
Map-folder 13	56, 8 Ft. Shaker for Summit Branch R. R. Company, undated
Map-folder 13	56, 8 Ft. Shaker for L. V. Coal Company, Harleton, undated
Map-folder 13	56, 8 Ft. Shaker for L. V. Coal Company, undated
Map-folder 13	56, General arrangment of 10 Ft. scale to 1 Foot, undated
Map-folder 13	56, Shaker Cars for #2, Drifton, undated
Map-folder 13	56, 6 Ft. Bars #2, Drifton, undated
Map-folder 13	56, Detail of 10 Ft. scale and 3" to 1 Foot, undated
Map-folder 14	57, Double Gyrating Screen, undated
Map-folder 14	58, Details Gyrating of Screen Chutes for Bridgeport Eckley Breaker D, [Chic?], scales, undated
Map-folder 15	59, Gyrating Screen Chutes Eckley Breaker L, undated
Map-folder 15	59, Details for Gyrating Screen,different sizes and styles, undated
Map-folder 15	59, Details of double Gyrating Screen size 4" through 16" cones, undated

Map-folder 15	59, Details of double Gyrating Screen size 4" through 6", undated
Map-folder 15	59, General arrangement of double Gyrating Screen, undated
Map-folder 15	59, Details of double Gyrating Screen size 4" through DDMP Tracks, undated
Map-folder 15	59, General arrangement, double Gyrating Screen, balance weight attached, undated
Map-folder 15	59, Gyrating [Siverus?], undated
Map-folder 15	59, Screen for Arkansas size 4" throw, undated
Map-folder 15	59, Details for Arkansas Screen Gyrating single, undated
Map-folder 15	59, Details of Wrought Iron Screen for Germany, undated
Map-folder 15	59, Unidentified, undated
Map-folder 15	59, General, arrangement of Gyrating Screen, undated
Map-folder 15	59, Unidentified, undated
Map-folder 15	59, Details of Gyrating Screen for Pardee Breaker, undated
Map-folder 15	59, Details of Gyrating Screen for Tomhicken Breaker, undated
Map-folder 15	59, Details of Gyrating Screen for Pardee Breaker, undated
Map-folder 15	59, Screen for Desloge Consolidated Lead Company, Missouri, undated
Map-folder 15	59, Details of Gyrating Screen for Eckley Breaker, undated
Map-folder 15	59, List of details for inverted style of Gyrating Screen, undated
Map-folder 15	59, Details of Gyrating Screen scales 1 1/2" to 1" foot, undated
Map-folder 15	59, Details of Gyrating Screen scales 1 1/2" to 1" foot, undated
Map-folder 15	59, General arrangement of Gyrating Screen for Chicago, undated
Map-folder 15	59, Details of Screen for Bridgeport Dock, Chicago, undated
Map-folder 15	59, Chutes for a Pardee and Co. Screen, Hazleton, Pennsylvania, undated
Map-folder 15;	59, Chutes for Mud Screens at Eckley #10, 1893

Map-folder 99	
Map-folder 15	59, Details of Gyrating Screen scale 1 1/2" to 1" foot, undated
Map-folder 15; Map-folder 99; Map-folder 101	59, Gyrating Screen Chutes #2, Drifton Breaker, 1897
Map-folder 15; Map-folder 99	59, Model plate with 3 styles of cones, undated
Map-folder 15; Map-folder 99	59, Bed Plate for double Gyrating Screens, undated
Map-folder 15; Map-folder 99	59, Gyrating Screen for Bridgeport Dock, Chicago, 1893
Map-folder 15; Map-folder 97	59, Gyrating Screen for Clybourn Avenue, Dock, Chicago, 1905
Map-folder 15; Map-folder 99; Map-folder 101	59, Details of Gyratings Screens at Beaver Meadow Breaker, 1905
Map-folder 15; Map-folder 101	59, Gyrating Screen Chutes for Milwaukee, Wisconsin, 1900
Map-folder 15	59, Gyrating Screen Chutes for Beaver Meadow, new breaker, undated
Map-folder 15; Map-folder 102	59, #2 Drifton, Wet Stove & Buckwheat Screen, undated
Map-folder 15; Map-folder 98	59, Gyrating Screen Chutes for Eckley Breaker, 1899
Map-folder 15; Map-folder 98; Map-folder 101	59, Details for Gyrating Screen, U Bed, Plate, undated
Map-folder 15; Map-folder 99	59, Details of Screen Box for Pea Coal, 1898
Map-folder 15;	59, Details of Gyrating Screen, Eckley Breaker, 1898

Map-folder 99	
Map-folder 15	59, Details for Gyrating Screen U Bed, Plate extended, undated
Map-folder 15	59, Gyrating Screen Chutes #2, Drifton Breaker, undated
Map-folder 15; Map-folder 96	59, Eccentric Shaft Stub for Gyrating Screens, undated
Map-folder 96	60, Details of Shaking Screens, 1902
Map-folder 96	61, Details of Shaking Screens, 1899
Map-folder 16	62, Proposed Shaking Screens for Chicago, undated
Map-folder 101	63, Chutes for Shaker Screen for Drifton #2, 1906
Map-folder 96	64, Details of Shaking Screens for Duluth Docks, 1905
Map-folder 96	65, Details of Shaking Screens for Duluth Docks, 1905
Map-folder 96	66, Details of Shaking Screen for Beaver Meadow Breaker, 1904
Map-folder 96	67, Details of Shaking Screens for Duluth Docks, undated
Map-folder 96	68, Details for Mond-Screen Beaver Meadow Breaker, 1899
Map-folder 96	69, Details for Mond-Screen Beaver Meadow Breaker, 1899
Map-folder 96	70, Details of Shaking Screen for Beaver Meadow Breaker, 1899
Map-folder 97	71, Details of Shaking Screen for Beaver Meadow Breaker, 1899
Map-folder 97	72, Details of Rotary Screen for different places, 1897
Map-folder 97	73, Details for Shaker Screen for Drifton #2, 1903
Map-folder 97	74, Details for Shaker Screen for Drifton #2, 1906
Map-folder 16	75, Shaftless Screen for a Pardee and Company, undated
	76 (MISSING) , Shaftless Screen for a Pardee and Company, undated
Map-folder 16	77, Arrangement of Shaking Screens for Duluth Docks, undated
Map-folder 16	78, Shaking Screens for Roan Storage Plant, undated

Map-folder 97	79, Tests of rebreaking broken-coal-continued sheet #2, undated
	79 (MISSING), Comparative tests of Coxe Chilled Cast Iron Fluted Crushing Rolls, undated
Map-folder 97	80, Comparative Tests of Coxe Chilled Cast Iron Fluted Crushing rolls and removable steel tooth rolls in breaking pure and oblong steamboat size coal, 1898
Map-folder 16	80, Comparative tests Coxe Chilled Cast Iron from Fluted Rolls, undated
Map-folder 16	80, Griffith Rolls tests in breaking steamboat, undated
Map-folder 16	80, Comparative tests of Coxe Chilled Cast Iron Fluted Rolls-Manganese Steel, undated
Map-folder 16	80, Comparative tests of Coxe Chilled Cast Iron Crushing Rolls, undated
Map-folder 96	80, Comparative tests of Coxe Chilled and Iron fluted rolls and manganese steel segment rolls in breaking boney stove and chestnut size coal from various collieries, 1898
Map-folder 21; Map-folder 97	81, Chestnut Coal Rolls, undated
Map-folder 97	81, Griffith rolls tests in breaking steamboat, 1899
Map-folder 21	82, Manganese Steel, Chestnut Coal Rolls, undated
Map-folder 21	83, Manganese Steel Rolls for boney and flat and Chestnut Coal, undated
Map-folder 102	84, Steamboat Rolls for Breaker #2, undated
Map-folder 99	85, Forty-six Tooth Chestnut Coal, 1898
Map-folder 99	86, Improved Egg Coal Rolls 26 7/8 over points scale 3" 7 1/2" = to 1 foot, 1898
Map-folder 99	87, Improved Broken Coal Rolls 26 7/8 over points scale 3" to 1 foot, undated
Map-folder 100	88, Improved Broken Coal Rolls 26 7/8 over points scale, 1 1/2" to 1 foot, 1897
Map-folder 100	89, Broken Coal Rolls, The Solvay Process Company, scale 3" to 1 foot, 1897
Map-folder 100	90, Details of Stove and Egg Bony Coal Rolls scale 3" to 1 foot, 1896
Map-folder 100	91, General arrangement of Stove and Egg Boney Coal Rolls scale 3" to 1 foot, 1896

Map-folder 100	92, Details of Lump Coal Rolls scale 3" to 1 foot, 1900
Map-folder 100	93, Details for Steamboat Coal Rolls scale 3" to 1 foot, 1900
Map-folder 100	94, Details of Lump Coal Rolls scale 3" to 1 foot, 1900
Map-folder 100	95, Details of different rolls scales 3" to 1 foot, 1900
Map-folder 100	96, Details of Hopper for Lump and Steamboat Rolls, 1899
Map-folder 100	97, Manganese Steel Broken Coal Rolls, 1899
Map-folder 100	98, Details for Bony Broken Coal Rolls, 1905
Map-folder 100	99, Unidentified, undated
Map-folder 20	100, Improved 30" Chestnut Coal Roll, undated
Map-folder 20	101, Details of different rolls scale 6 to 1 foot, undated
Map-folder 20	102, Pinions used for C.B & Company, Coal Rolls, undated
Map-folder 20	103, Roll forms different sizes full size, undated
Map-folder 20	104, Details of Stove Goal Roll scale 3" to 1 foot, undated
Map-folder 17	105, Details of Broken Coal Rolls scale 3" to 1 foot, undated
Map-folder 17	106, Manganese Steel Egg Coal Rolls scales 1 1/2" and 6"= 12", undated
Map-folder 17	107, Manganese Steel Rolls Bony and flat Stove and Chestnut Coal, undated
Map-folder 17	108, Manganese Steel Broken Goal Rolls, undated
Map-folder 17	109, Steel Tooth Lump Coal Rolls, undated
Map-folder 17	110, Unidentified, undated
Map-folder 94	111, Chutes different sizes scales 3" foot to 1 foot, undated
Map-folder 18	112, Thirty-nine Automatic Slate Pickers different sizes 3 to 1 foot, undated
Map-folder 18	113, Automatic Slate Pickers different sizes 3" & l 1/2" to 1 foot, undated
Map-folder 18	114, Automatic Slate Pickers different sizes 3" & l 1/2" to 1 foot, undated
Map-folder 18	115, Unidentified, undated

Map-folder 18; Map-folder 94	116, Beaver Meadow Breaker, undated
Map-folder 18; Map-folder 94	117, Loading Lips for different breakers, scale, undated
Map-folder 18; Map-folder 94	118, Adjustable Loading Lip, undated
Map-folder 18	119, One hundred broken coal Intermediate Picking Chutes, undated
Map-folder 18	120, Automatic Slate Pickers different sizes, undated
Map-folder 18; Map-folder 94	121, Chutes different sizes, undated
Map-folder 18	122, Picking Chutes for C Pardee & Companys, undated
Map-folder 18	122, Picking Chutes for C Pardee & Companys, undated
Map-folder 18	123, Chute Bar & Rest scale full size, undated
Map-folder 18	124, Chutes for different places, undated
Map-folder 18; Map-folder 95	125, Intermediate Picking Chute, undated
Map-folder 18; Map-folder 102	125, Oneida Breaker, undated
Map-folder 18; Map-folder 102	126, Oneida Breaker Jigs, undated
Map-folder 18; Map-folder 95	127, Conveyor Trough for Breaker #2, undated
Map-folder 18	128, Unidentified, undated
Map-folder 95	129, Detail of East Loading Lip Hopper, undated
Map-folder 95	130, Detail of East Loading Lip Drifton #2 Breaker, undated
	131 (MISSING), Conveyor Trough for Conveyor under loading lips, undated

Map-folder 95; Map-folder 102	132, Details of West Loading Lip Hopper, Drifton #2 Breaker, undated
Map-folder 102	133, Rope pulleys for prepared coal loading lip, undated
	134 (MISSING), Lump Coal return #2 Drifton Breaker, undated
Map-folder 19	135, Return Chute, undated
Map-folder 19; Map-folder 95	136, Miscellaneous Chutes different places, undated
Map-folder 19	137, Loading Lips and Gates for storage car I, undated
Map-folder 19; Map-folder 102	138, Special Slush Box for type A Jig, undated
Map-folder 19	139, Details for & 4 foot double coal jigs, undated
Map-folder 19	139, Details for & 4 foot double coal jigs, undated
Map-folder 19	140, General arrangement of 4 foot jig for Lehigh Valley Coal Company, undated
Map-folder 19	140, Details for 1 double 4 foot jig for Lehigh Valley Coal Company, undated
Map-folder 19	140, Details for 1 double 4 foot jig for Lehigh Valley Coal Company, undated
Map-folder 19	140, Details for Jig improvements, undated
Map-folder 19	141, General arrangement showing improved of 5" Jig in Slate Hopper Box, undated
Map-folder 19	142, Thirty-six inch Feldspar Jig for York Farm Breaker, undated
Map-folder 19; Map-folder 95; Map-folder 98	143, Details of improved 5 foot Jig 1 1/2" 3" & 12" to 1 foot, 1894
Map-folder 19; Map-folder 95	144, Details of improved 4 foot Jig 1 1/2" 3" & 12" foot, 1895
Map-folder 19; Map-folder 95	144, Details of improved 4 foot Jig 1 1/2" 3" & 6" foot, 1895

Map-folder 19	145, General arrangement of improved 4' Jig 3/4" to 1 foot, undated
Map-folder 19	146, Process of double Jigging scale 3/4 to 1 foot, undated
Map-folder 19	146, Details for stand Jigs scale 1 foot, undated
Map-folder 98	147, Details for stand Jigs scale 1 foot, 1896
Map-folder 20	148, Four ft. & 5 ft. Jigs #2 Drifton, undated
Map-folder 98	149, Four ft. & 5 ft. Jigs #2 Drifton, undated
Map-folder 98	150, Four Ft, Stove & Chest Jig, Brxfton #2, 1885
Map-folder 20	151, Five Ft. Pea & B.W.K. Jig, undated
Map-folder 101	152, Jig Shafting for #2 Breaker, Drifton, undated
Map-folder 20	153, Arrangement of Feldspar Jigs, undated
Map-folder 20	153, Arrangement of Feldspar Jigs, undated
Map-folder 20	153, Details for Feldspar Jigs, undated
Map-folder 20	154, Arrangement for B.W.K. Jigs, undated
Map-folder 20	155, Arrangement for B.W.K. Jigs, undated
	156, Details for Pea, Nut, Stove & Egg, Jigs, undated
Map-folder 101	156, Details for B.W.K Jigs, 1899
Map-folder 93	157, Details for Snyder Jig, undated
Map-folder 23	158, Miscellaneous Detail, undated
Map-folder 23	158, Eckley Improved Breaker, undated
Map-folder 23	159, Eckley Breaker, undated
Map-folder 22	160, Coal Breaker Wood Structure, undated
Map-folder 23	161, Coal Breaker Wood Structure, undated
	162, Coal Breaker Wood Structure, undated
Map-folder 23	163, Coal Breaker Wood Structure, undated

Map-folder 23	164, Details of Shafting, etc., for Deringer Breaker, undated
Map-folder 23	165, Plan, undated
Map-folder 23	166, Miscellaneous Details Conveyor, undated
Map-folder 23	167, Miscellaneous Details, undated
Map-folder 24	168, Details of Shafting, undated
Map-folder 24	169, Change in Drifton #2 Breaker, undated
Map-folder 24	170, Conveyor and Drive for Rice Coal Concentrator Table, undated
Map-folder 24	171, Drifton Breaker, undated
Map-folder 24	172, Drifton Breaker Transfer Conveyor, undated
Map-folder 24	173, 18 x 30 Compound General Rolls and Drive, undated
Map-folder 24	174, Two Type D, Simplex Refuse Jigs and Drives, undated
Map-folder 24	175, Plan of Menzie Buckwheat Jig and Pumps, undated
Map-folder 24	176, Side Elevation of Drifton #2 Breaker showing changes, undated
Map-folder 24	177, Wash Water Piping, undated
Map-folder 24	178, Retail Buck Coal Conveyor, undated
Map-folder 24	179, Plan of Shaking Picking Table, undated
Map-folder 24	180, Chestnut and Pea Refuse Elevator, undated
Map-folder 24; Map-folder 92	181, Details of foot arrangement, undated
Map-folder 24	182, General arrangement of core agitator plan, undated
Map-folder 24	183, Sand return and refuse chamber filling pipe, undated
Map-folder 24	184, Plan of water line, undated
Map-folder 24	185, Plan of Jig floor and elevation of bent K, undated
Map-folder 25	186, General arrangement and details of Conveyor plane and pit, undated

Map-folder 25	187, Upper Machinery, undated
Map-folder 25	188, Plan of 15' 0" cone supports, undated
Map-folder 25	189, General arrangement of single deck roll shaker and drives, undated
Map-folder 25	190, Elevation looking West and South, undated
Map-folder 25	191, Lower machinery plan, undated
Map-folder 25; Map-folder 92	192, Flow Sheet, undated
Map-folder 25; Map-folder 92	193, Flow Sheet, undated
Map-folder 25	194, Elevation of Water Line, undated
Map-folder 25	195, General arrangement of Rock Conveyor and Rolls and Elevation of Bent M, undated
Map-folder 25	196 See Tracing of January 11, 1932, undated
Map-folder 25	197, Elevation of Water Line, undated
Map-folder 25	198, Machinery Plan and Elevation on Bent 9, undated
Map-folder 25	199, Elevation Bent 8 and Bent L, undated
Map-folder 25	200, Six Cast Iron Water Line, undated
Map-folder 25	201, Elevation of Bent 7 and Bent K, undated
Map-folder 25	202, Bent D and E I, undated
Map-folder 25	203, Bent 6 and Bent I, undated
Map-folder 25	204, Sand storage ben, Sand pump sump 1, undated
Map-folder 25	205, Elevation of Bent 5, undated
Map-folder 25; Map-folder 92	206, Elevation of Bent 5, undated
Map-folder 92	207, Elevation of Bent 5, undated

Map-folder 25; Map-folder 92	208, Elevation of Bent 5, undated
Map-folder 25	209, Side Elevation, Oneida Breaker, undated
Map-folder 21	210, West Elevation of Coal Breaker, undated
Map-folder 21	211, Side Elevation, undated
Map-folder 21	212, Oneida Breaker, Side Elevator, undated
Map-folder 21	213, Oneida Breaker, Iron Structure Proposed, undated
Map-folder 21	214, Oneida Breaker, Iron Structure Proposed, undated
Map-folder 21	215, Unidentified, undated
Map-folder 21	216, Oneida Breaker, Iron Structure Proposed, undated
Map-folder 21	217, Oneida Breaker, Oscillating Bars, undated
Map-folder 22	218, Oneida Breaker, doubtful rolls & engine, undated
Map-folder 22	219, Oneida Breaker Elevator Discharge for Rebroken Goal, undated
Map-folder 22	220, Oneida Breaker Elevator Discharge I, undated
Map-folder 92	221, Oneida Breaker, Jigs Large Coal, undated
Map-folder 102	222, Oneida Breaker 12" x 14" Idler Fully Belt Driving Jig Slate Discharge, undated
Map-folder 92	223, Different Gate Lever for Feldspar Jigs, undated
Map-folder 22	224, Oneida Plan View & Rock Chute, undated
Map-folder 95	225, Oneida breaker, undated
	227 (MISSING), Elevation of Bent F and H, undated
	228, Number not used
Map-folder 22; Map-folder 92	229, Rice Coal Table, undated
Map-folder 22	229, Table for Drifton Colliery, undated

Map-folder 92	230, General Arrangement of 18" x 30" Compound Geared Rolls, undated
Map-folder 92	231, Tooth Cast Steel Pinion, undated
Map-folder 102	232, Manganese Steel Segment #2, 1916
Map-folder 92	233, Flow Sheet, undated
Map-folder 22	234, Excavation Plan, undated
Map-folder 23	235, Wiring Diagram, undated

Subseries 6.4: Drawings, Boiler Building and Equipment (Group 3)

Map-folder 26	1, Profile of Steam Line, undated
Map-folder 26	2, Piping Scheme, undated
Map-folder 26	3, Superheater Piping Arrangement, undated
Map-folder 26	4, Setting and Foundation Plan, undated
Map-folder 26	5, Boiler House, undated
Map-folder 26	6, Hopper for 10 foot Traveling, undated
Map-folder 26	7, Dutch oven for 250 H. S&W Boiler, undated
Map-folder 26	8, Dutch oven for 250 H. S&W Boiler, undated
Map-folder 26	9, Dutch Oven for Babcock & Wilcox Boilers, undated
Map-folder 26	10, Details for Coxe Traveling Grate, undated
Map-folder 26	11, Baffle Plate Details for 250 and 300 H.P. Babcock and Wilcox Boilers, undated
Map-folder 26	12, Unidentified, undated
Map-folder 26	13, Boiler House, undated
Map-folder 26	14, Four inch Stop Valve, undated
Map-folder 26	16, Arrangement for Blast Pipes Babcock & Wilcox Boilers, undated
Map-folder 26	17, Mechanical Draft Arrangement, undated

Map-folder 26	18, Details of Sturtevant Blower, undated
Map-folder 26	19, Grate Bar Breakers arid Dove Tails, undated
Map-folder 27	20, Detail of W. J. Bent, undated
Map-folder 27	21, Arrangement of Boiler House, undated
Map-folder 27	22, Plan of Boiler House, undated
Map-folder 27	23, Details for Boiler House, undated
Map-folder 27	24, Oneida #3, undated
Map-folder 27	25, Boiler House Conveyor Oneida, undated
Map-folder 27	26, Conveyor and Trestle, undated
Map-folder 27	27, Boiler House Conveyor Oneida #3, undated
Map-folder 27	28, Boiler House Conveyor Oneida #3, undated
Map-folder 27	29, Detail of Bents for Boiler House, undated
Map-folder 27	30, Boiler House Deringer Scales 1/2" = one foot, undated
Map-folder 27	31, Arrangement of Drag Shafting, undated
Map-folder 27	32, Boiler House Plan #3, Stockton 1/4" to 1 foot, undated
Map-folder 27	33, Details of Stairways and Walk, undated
Map-folder 27	34, Arrangement of Walks and Stairs, undated
Map-folder 27	35, Boiler House for Water Supply, undated
Map-folder 27	36, Boiler House #10 Eckley, undated
Map-folder 27	37, Pipe Supports for Beaver Meadow New Breaker, undated
Map-folder 27	37, Pipe Supports for Beaver Meadow New Breaker, undated
Map-folder 27	37, Support for Steam Pipe Cast Iron, undated
Map-folder 27	38, Eckley #10-5" Steam Line, undated
Map-folder 27	38, Eckley #10-5" Steam Line, undated

Map-folder 27	39, 611 Stop Valve, undated
Map-folder 27	39, 5" Stop Valve, undated
Map-folder 27	40, Different Details for Steam and Water Liftings, undated
Map-folder 27	40, Different Details for Steam and Water Liftings, undated
Map-folder 28	41, 6" Standard Eliminator, undated
Map-folder 28	42, Pipes, Tees, Ells and C different sizes, different places, undated
Map-folder 28	43, Standard Swing Joints, undated
Map-folder 28	44, Water Trap Steam Receiver, undated
Map-folder 28	45, Details of 3rd and 4th 10 foot Horizontal Trap. Grate, undated
Map-folder 28	46, Details of Tubular Boilery, undated
Map-folder 28	47, Number not used, undated
Map-folder 28	48, Water Weighing Tanks for Boiler Texts, undated
Map-folder 28	49, Details of 3rd and 4th 10 foot Horizontal Tran. Grate, undated
Map-folder 28	50, Details for Different Boilers, undated
Map-folder 28	51, Arrangement for Economic Portable Boiler, undated
Map-folder 28	51, Details, Arrangement for Economic Portable Boiler, undated
Map-folder 28	51, Miscellaneous Details, undated
Map-folder 28	52, Babcock and Wilcox Boilers, undated
Map-folder 28	53, Details of McClave grate and Babcock and Wilcox Boilers, undated
Map-folder 28	54, Details of 60" boiler for Dreck Creek, undated
Map-folder 28	55, Differential Speed, Reducing Mechanism, undated
Map-folder 28	55, Differential Speed, Reducing Mechanism, undated
Map-folder 28	55, Differential Speed, Reducing Mechanism, undated
Map-folder 28	56, Details for Shafting for Boiler Plant, undated

Map-folder 29	57, Traveling Grate for P & R. R. R. Company, undated
Map-folder 29	58, Traveling Grate for Oneida #2, undated
Map-folder 29	59, Traveling Grate for Eckley #10, undated
Map-folder 29	60, Detail of Traveling Grate, undated
Map-folder 29	61, Plan View of Boiler House Ash Conveyor, undated
Map-folder 29	61, Details for Boiler House Ash Conveyor, undated
Map-folder 29	61, Side Elevation of Boiler, undated
Map-folder 29	61, End Elevation, undated
Map-folder 29	61, Details for Boiler House Ash Conveyor, undated
Map-folder 29	61, Side Elevation of Boiler for Ash Conveyor, undated
Map-folder 29	61, End Elevation, undated
Map-folder 29	62, Grate and Boiler, front for Tomhicken Power Company, undated
Map-folder 29	63, Sixty inch Boiler and McClave Grate for Buck Mountain, undated
Map-folder 29	64, Details of McClave Grate for Clybourn Dock, undated
Map-folder 29	64, Details of McClave Grate for Clybourn Dock, undated
Map-folder 29	65, Arrangement for Boiler Barney Hoist #6 Slope, undated
Map-folder 29	66, Details for Conveyers Deringer Boiler Plant, undated
Map-folder 29	67, Arrangement of Ash Drag and Conveyor, undated
Map-folder 29	67, Arrangement of Ash Drag and Conveyor, undated
Map-folder 29	68, Arrangement of Boiler Heater for Beaver Meadow, undated
Map-folder 29	68, Arrangement of Boiler Heater for Beaver Meadow, undated
Map-folder 29	69, Traveling Grate for Philadelphia and Reading Railroad Company, undated
Map-folder 29	69, Six Foot Traveling Grates & Stirling Boilers P & R. R. R, Company, undated
Map-folder 29	69, Traveling Grate for Philadelphia and Reading Railroad Company, undated

Map-folder 29	69, Traveling Grate for Philadelphia and Reading Railroad Company, undated
Map-folder 30	70, Details of 10 Foot Horizontal Traveling Grate, undated
Map-folder 30	71, Details of Traveling Grate scale 1 1/2" & 3" to 1 Foot, undated
Map-folder 30	71, Details of Traveling Grate, scale 3" & 12" to 1 Foot, undated
Map-folder 30	71, Details of Standard Traveling Grate, undated
Map-folder 30	71, Six Foot Horizontal Traveling Grate for Pope Manufacturing Company, undated
Map-folder 30	71, Detail of Traveling Grate scale 3" to 1", undated
Map-folder 30	71, Detail of 6 Foot Standard Traveling Grates scale 1 1/2" , 3" to 1 Foot, undated
Map-folder 30	71, Proposed six foot Horizontal Traveling Grate for the Pope Manufacturing Co, undated
Map-folder 30	71, Different kinds of bars and water backs used for Traveling Grates, undated
Map-folder 30	71, General arrangements of six foot standard of Horizontal Traveling Grate, undated
Map-folder 30	71, Detail arrangements of six foot standard of Horizontal Traveling Grate, undated
Map-folder 30	71, Six foot Horizontal Traveling Grate for Pope Manufacturing Company, undated
Map-folder 30	71, Six foot Horizontal Traveling Grate for Coxe Iron Manufacturing Company, undated
Map-folder 30	71, Six foot Horizontal Traveling Grate for Pope Manufacturing Company, undated
Map-folder 30	71, Pope Manufacturing Company, undated
Map-folder 30	71, Details of six foot standard Traveling Grate, undated
Map-folder 30	71, Six foot Horizontal Traveling Grate for Pope Manufacturing Company, undated
Map-folder 30	71, Improved details of three foot traveling grate at Roan, undated
Map-folder 30	71, Six foot Horizontal Traveling Grate for Pope Manufacturing Company, undated
Map-folder 30	71, Six foot Horizontal Traveling Grate for Coxe Iron Manufacturing Company, undated
Map-folder 30	72, Boiler House for Dreck Creek, undated

Map-folder 30	72, Three foot Travel Grate and 60 Boiler for Dreck Creek, undated
Map-folder 30	73, Details for Babcock and Wilcox Boilers., undated
Map-folder 30	74, Sixty inch Boilers and three foot Traveling Grates for Buck Mountain, undated
Map-folder 30	74, Sixty inch Boilers & three foot Traveling Grates for Buck Mountain
Map-folder 30	74, Elevation and Details of Traveling Grate & Sixty inch Boilers
Map-folder 30	75, 7' -6" Traveling Grate and ninety inch boiler for Eckley #10
Map-folder 31	76, 90" x 15" Boiler and Traveling Grate
Map-folder 31	76, 90" x 15" Boiler and Traveling Grate
Map-folder 31	76, Details of 7"-6" Traveling Grate for Eckley #10
Map-folder 31	76, General arrangements of 90" x 15" Boiler for #10 Eckley
Map-folder 31	76, 90" x 15" Boiler with Traveling Grates
Map-folder 31	76, Details of Tubular Boiler
Map-folder 31	76, Bricks for 90" Boiler and 6 foot Horizontal Grate
Map-folder 31	76, Details of 7'-6" Traveling Grate for Eckley #10
Map-folder 31	76, Steam Drums for 90" Boilers for Eckley #10
Map-folder 31	76, 7'-6" Traveling Grate & 9011 Boilers for Eckley #10
Map-folder 31	76, Details of 90" x 15-0" Boiler ad 6 foot Horizontal Traveling Grate
Map-folder 31	76, 90" Boiler and 6 foot Grate
Map-folder 31	76, Details of Tubular Boiler
Map-folder 31	76, Details for Traveling Grates at Eckley #10
Map-folder 31	76, Details for Feed Water Heater at Eckley
Map-folder 31	78- Traveling Grate for Deringer
Map-folder 31	78, Details of 10 foot Traveling Grate for Deringer
Map-folder 31	78, Stack for Babcock & Wilcox Boilers

Map-folder 31	78, Details of 10 foot Horizontal Traveling Grate for Deringer
Map-folder 31	78, Detail of 3rd and 4th 10 foot Horizontal Traveling Grate
Map-folder 31	78, Details of 10 foot Horizontal Traveling Grate for Deringer
Map-folder 31	78, Details of 10 foot Horizontal Traveling Grate for Deringer
Map-folder 31	78, Details of 10 foot Horizontal Traveling Grate for Deringer
Map-folder 31	78, Details for 66" Boiler at Lattimer Stripping
Map-folder 31	79, Arrangement of 66" Boiler at Lattimer Stripping
Map-folder 31	79, Arrangement of 66" Boiler at Lattimer Stripping
Map-folder 31	79, Arrangement of 66" Boiler at Lattimer Stripping
Map-folder 31	79, Arrangement of 66" Boiler at Lattimer Stripping
Map-folder 31	79, Arrangement of 66" Boiler at Lattimer Stripping
Map-folder 31	79, Arrangement of 66" Boiler at Lattimer Stripping
Map-folder 32	80, Details for Webster Feed Water Heater
Map-folder 32	81, Six foot Traveling Grate and Stirling Boilers
Map-folder 32	81, Details for Traveling Grate
Map-folder 32	81, Traveling Grate for Oneida #3
Map-folder 32	81, Six foot Traveling Grate and Stirling Boilers at Oneida #3
Map-folder 32	81, General arrangements and Details for Oneida #3
Map-folder 32	82, Grate for Boiler at Oneida #5
Map-folder 32	82, Miscellaneous Details for Boiler #6
Map-folder 32	83, Arrangement of 66" Boiler at Roan
Map-folder 32	83, Arrangement of 66" Boiler at Roan
Map-folder 32	84, Details for Boiler, odd sizes and shapes
Map-folder 32	85, Boiler for Clybourn Docks, Chicago

Map-folder 32	86, Boiler for Hazleton Hospital
Map-folder 32	87, McClave Grate Details
Map-folder 32	88, Ash Pit Doors for Beaver Meadow
Map-folder 32	89, Detail for Babcock and Wilcox Boiler at Beaver Meadow
Map-folder 32	90, McClave Grate for Locomotive Boiler
Map-folder 32	91, #2 Drifton Bo. Ho
Map-folder 32	92, Feed Water Heater and Pipes for #2 Drifton
Map-folder 32	93, Details for Babcock and Wilcox Boilers.1'
Map-folder 32	93, Details for Babcock and Wilcox Boilers.1'
Map-folder 32	93, Details for Babcock and Wilcox Boilers.1'
Map-folder 32	93, Babcock and Wilcox Boilers with McClave Grate
Map-folder 32	93, Steam Drums for Babcock and Wilcox Boilers
Map-folder 32	94, General arrangement of Dump Grates for Babcock and Wilcox Boilers
Map-folder 32	95, Dutch Oven for Babcock and Wilcox Boilers
Map-folder 33	Barometric condenser, 1909
Map-folder 33	Foundation plan for 493 horse power Erie City V.W.T. Boiler #5, 1924
Map-folder 33	Steam pipe supports and anchors, 1910
Map-folder 33	Report of boiler tests, Lehigh Valley Coal Company, 3 pages, undated
Map-folder 33	Conveyors, drawing number S-155, undated
Map-folder 33	Load curve of Coxe Brothers Company, steam plant at Deringer, 1908
Map-folder 33	Results of trial boilers at Deringer, undated
Map-folder 33	Log of boiler trial No. 1, at Deringer Colliery, 1909

Subseries 6.5: Drawings, Small Drawings and Miscellaneous Leigh Valley Coal Company (Group 4)

Subseries 6.5.1: Drawings, Group 4.1

Map-folder 34	1, Details of Sketches of Steel Chance Separator, undated
Map-folder 34	2, Details of Sketches of Steel Run of Mine Conveyor, undated
Map-folder 34	3, Details of Loading Gate and Frame, undated

Subseries 6.5.2: Drawings, Group 4.2

Map-folder 35	1, Flat Shaker Plates, Replacing flanged Plates, undated
Map-folder 35	2, Heavy Style B Take Up, undated
Map-folder 35	3, Main Line and Counter Shaft, undated
Map-folder 35	4, Shafts for B, Meadow Run of - Mine Conveyor, undated
Map-folder 35	5, 3,000 Gallons Tank for Waste Water Pump, undated
Map-folder 35	6, Shaker Arrangement, undated
Map-folder 35	7, Shafts for Rotary Feed Drive, undated
Map-folder 35	8, 40 Teeth Mitre Gears for Belt Loader, undated
Map-folder 35	9, Details for Loading chute, undated
Map-folder 35	10, Base Plate for Run of Mine Conveyer, undated
Map-folder 35	11, 8" x 24" M.I. Flight for Scraper Line, undated
Map-folder 35	12, Eccentric Cora and Strap for Shaker, undated
Map-folder 35	13, 34 Traction Wheel - for 9" pitch Keystone chain, undated
Map-folder 35	14, Gyrating Screen Chutes Drifton #2 Breaker, undated
Map-folder 35	15, Details of James Jig, undated
Map-folder 35	16, Tooth Gear and 13 and 1B tooth Purions Used at Various Coxe Collieries, undated

Map-folder 35	17, Gear and Pinion for Drifton Slate Conveyor, undated
Map-folder 35	18, Drop - Forged Steel Pin and Link for Conveyor, undated
Map-folder 35	19, Steel Conveyor Trough with 6 x 18 flights at Drifton, undated
Map-folder 35	20, 6l Tooth Split Gear and 20 Tooth Pinion, undated
Map-folder 35	21, Shaft for Outside Jigs 5'-2" Shaft Far Inside Jigs, undated

Subseries 6.5.3: Drawings, Group 4.5

Map-folder 36	1, Details for 8" check Valve with Plow Switch, undated
Map-folder 36	2, Special Elbows for Replacing L.D.G., undated
Map-folder 36	3, Wiring Diagram for The Automatic Control of a Cent Pump, undated
Map-folder 36	4, 10" M Medium Duty Pump, undated
Map-folder 36	5, 6" M Medium Duty Pump, undated
Map-folder 36	6, Hazleton 8'-4 Stage Volute Pump, undated
Map-folder 36	7, Elevation 8" Double Suction Volute Pump, undated
Map-folder 36	8, Elevation 8" Double Suction Volute Pump, undated
Map-folder 36	9 , Elevation 6'-3 Stage Volute Pump, undated
Map-folder 36	10, Elevation 6'-2 Stage H.S. Volute Pump, undated
Map-folder 36	11, Elevation Special 6" Hydrator Pump, undated
Map-folder 36	12, General Assembly of Two Stage Single Suction Volute Pump, undated
Map-folder 36	13, Elevation 5' Double Suction Volute Pump, undated
Map-folder 36	14, Number not used, undated
Map-folder 36	15, 4-4 Stage Volute Pump, undated
Map-folder 36	16, Elevation 4' D Suction Volute Pump, undated
Map-folder 36	17, Hazleton 4' D.S, Volute Pump, undated

Map-folder 36	18, Elevation 3"-2 Stage H.S Volute Pump, undated
Map-folder 36	19, Elevation 3" Open Impeller Pump, undated
Map-folder 36	20, Hazleton 3 D.S. Volute Pump, undated
Map-folder 36	21, Elevation 3" Hydrator Pump, undated
Map-folder 36	22, Detail of II'-60 degree Water Line From 10" Stand Pump, undated
Map-folder 36	23, 12" Cement Lined Ells for Discharge Line, undated
Map-folder 36	24, General Plan of 5 D.S. Volute Auxiliary Pump, undated
Map-folder 36	25, Pipe Connections for 6" Pump Model 12597, undated
Map-folder 36	26, 14" Column Pipe, undated
Map-folder 36	27, Expansion for l14" Column Line, undated
Map-folder 36	28, 14" Branch Pipe for Breaker Column Drifton #2, undated
Map-folder 36	29, Bronze Pipe and Flange for Sump Dam, undated
Map-folder 36	30, Check Valve, undated
Map-folder 36	31, High Pressure Piston for 28" and 42"x 14.8" Goyne Worthington Pump, undated
Map-folder 36	32, Gland C.I.. I of this Patt. #P. - 2037, undated
Map-folder 36	33, Check Valve Body C.I. I of this Patt #P, 1947, undated
Map-folder 36	34, Location of Pipes in Local Sump, undated
Map-folder 36	35, Details of 14" x 9 1/2" x1l6", Cameron Pump, undated
Map-folder 36	36, Brass Valve Seat for No.9 Cameron Pump 12"x 7"x 13", undated
Map-folder 36	37, Details of Worthington Compound Pump, undated
Map-folder 36	38, C.I. Elbow for No.1, C.K. Pump, undated
Map-folder 36	39, Details for 8 Column Check Valve (Heavy Patt), undated
Map-folder 36	40, Details for 8"x 6" x 10" Gordon and Maxwell Pump Shop, undated
Map-folder 36	41, Details of No.7 Cameron Pump Shop, undated

Map-folder 36	42, Special Pipe for Deringer Colliery, undated
Map-folder 36	43, Details of 18" x 12" x 20" Cameron Pump Oneida Colliery, undated
Map-folder 36	44, Details of 10 Cameron Pump 14" x 9 1/2" x 16", undated
Map-folder 36	45, Cast Iron Special Ells for New Breaker Pump, undated
Map-folder 36	46, Acid Resisting Bronze Piston, undated
Map-folder 36	47, Acid Resisting Bronze Piston, undated
Map-folder 36	48, Air Chamber and Air Chamber Elbow, undated
Map-folder 36	49, Piston and Valve Rod Glands, undated
Map-folder 36	50, Special Pipe for 12" x 12" 24" C.K. Pump #547, undated
Map-folder 36	51, Beaver Meadow Slope 8 Wash House, undated
Map-folder 36	52, Standard Elbow, undated
Map-folder 36	53, Hazleton 3 - 2 Stage Volute Pump, undated
Map-folder 36	54, Plunger Gland and Bushing, undated
Map-folder 36	55, Outline and Gear Data, undated
Map-folder 36	56, Plan of Foundation for Double Suction Volute Pump, undated
Map-folder 36	57, "Hazleton 3" D.S. Volute Pump, undated
Map-folder 36	58, Elevation 6 - 3 Stage Volute Pump, undated
Map-folder 36	59, Hazleton 8" D.S. Volute Pump, undated
Map-folder 36	60, Stator Winding Diagram 15 HP, 440 Volt, Type OS, undated
Map-folder 36	61, Wiring Diagram, undated
Map-folder 36	62, Minneapolis Connection Diagram, undated

Subseries 6.5.4: Drawings, Group 4.6

Map-folder 37	1, Platform and Cover for Bushing Mfg, undated

Map-folder 37	2, Bushing Mounting for 100 KW. 3 phase 60 cycles Tran, undated
Map-folder 37	3, Connection Diagram of 100 K.V.A. Pittsburgh Transformers, undated
Map-folder 37	4, Wiring Diagram for Parallel Operations of two Rotary Converter, undated
Map-folder 37	5, Connection Diagram Metering Equipment, undated
Map-folder 37	7, Layout of Fence for switching tower, undated
Map-folder 37	8, Frame Wiring of D.C. Generator for 200 K.W. 275 Volta M.Q. Set, undated
Map-folder 37	9, Details of Wire screen for Enclosing switching Board, undated
Map-folder 37	10, Conduit Layout and General Arrangement, undated
Map-folder 37	11, Unidentified, undated
Map-folder 37	12, Wire Screen for Enclosing control Apparatus, undated
Map-folder 37	13, Diagram of D.C. Connections for 200 K.W. Rotary Converter, undated
Map-folder 37	14, Circuit Breaker Panel, undated
Map-folder 37	15, Connections of G.E. Transformer with Neutral Wire, undated
Map-folder 37	16, Wire Screen work for enclosing switch board, undated
Map-folder 37	17, Connection Diagram of 50K.W, 250 Volt. Frame K - 9 Diehl Gen, undated
Map-folder 37	18, Floor Plan of Substation for Motor Generator Set, undated
Map-folder 37	19, Wire Screen for Enclosing H.T. Wiring, undated
Map-folder 37	20, Wire Screen for Enclosing Switchboard, undated
Map-folder 38	21, Wire Screen for Enclosing Switchboard, undated
Map-folder 38	22, Drilling Dimension for Operating Handle of General, undated
Map-folder 38	23, 2 Panel slate Switch Board, undated
Map-folder 38	24, Wiring Diagram or 25 H.P. type "F" full auts-resistence T.S., undated
Map-folder 38	25, Connection for Reconnection 2200 volt Motor, undated
Map-folder 38	25, Connection for Reconnection 2200 volt Motor, undated

Map-folder 38	26, Wiring Diagram of Allen - Bradley D.C. Motor Controller, undated
Map-folder 38	27, Alterations on Hoist No.968 to change from Steam to Motor Drive, undated
Map-folder 38	28, Support for Master Controller, undated
Map-folder 38	29, Wire Screen for Enclosing Control Apparatus, undated
Map-folder 38	30, Wire Screen for Enclosing High Tension Apparatus, undated
Map-folder 38	31, Wiring Diagram for Automatic Charging Panel, undated
Map-folder 38	32, Wiring Diagram, Automatic, Rotary Converter, undated
Map-folder 38	33, Cut Steel Gears 14" x 18" Stroh Engine, undated
Map-folder 38	34, Details of Brake Band for 30 H.P. Vulcan Hoist, No.51, undated
Map-folder 38	36, General Arrangement and Details of Direct Acting Timber Hoist, undated
Map-folder 38	37, Drawing number not used, undated
Map-folder 38	38, Drawing number not used, undated
Map-folder 38	39, Rand Air Compressor Valve Rods. Neck Ring, undated
Map-folder 38	40, High Pressure Piston. 20" x 13 1/2" + 9 1/2" + 4 1/2" Stage Nor. Air Compressor, undated
Map-folder 38	41, Details of 9"x 16" Porter - Allen Engine Mew Elevator and Con. Drifton Breaker, undated
Map-folder 38	42, Wrought Iron Connecting Link, undated
Map-folder 38	43, Crank Pin Brasses for 12"x 30" Chandler and Taylor Fan Engine, undated
Map-folder 38	44, Details of l6" x 17 1/4" x 24" Rand Air Single Stage #278 Compressor, undated
Map-folder 38	45, Details of 12" x 12" x 48" Dover Air Motor, undated
Map-folder 38	46, Details for Small Air Motor, undated
Map-folder 38	47, Cast Iron Chair For 50 H.P. Vulcan Hoist Drum Patt, undated
Map-folder 38	48, Window Ventilator for Sub-Stations, undated
Map-folder 38	49, Connections for Reconnecting 2200 volt Motor, undated

Map-folder 38	50, Connections Diagrams Westinghouse SK Motor 1 1/2" to 60 H.P., undated
Map-folder 38	51, 17 Tooth C.I. Pincons 14" x 20" Vulcon Hoisting Engine, undated

Subseries 6.5.5: Drawings, Group 4.7

Map-folder 39	1, Sliding Shoe for Towing Mine Locomotives With Broken Axle, undated
Map-folder 39	2, Ironton Locomotive Switchboard type Irl. Serial, undated
Map-folder 39	3, Wiring Diagram Trolley Locomotive, undated
Map-folder 39	4, Wiring Diagram Trolley Locomotive, undated
Map-folder 39	5, Drawing number not used, undated
Map-folder 39	6, Rolled Steel Mine Locomotive Wheel, undated
Map-folder 39	7, Rolled Steels and Axle for Ironton Loco, undated
Map-folder 39	8, Bearing Brasses for W.E. and M. Co. Locomotive Motor Type #65, undated
Map-folder 39	9, Bearing Brasses for W.E. and M. Co. Locomotive Motor Type #65, undated
Map-folder 39	10, Wiring Diagram for type S-I Ironton Controller, undated
Map-folder 39	11, Diagram of Field and armature Winding, undated
Map-folder 39	12, Wiring Diagram Trolley Locomotive, undated
Map-folder 39	13, One Piece Brake Shoe and Head for trolley locomotives, undated
Map-folder 39	14, G. Cadwallader, undated
Map-folder 39	15, Motor Axle Lining and Journal Brass, undated
Map-folder 39	15, Bearing Brasses W.E'. and M. Co. Locomotive Motor #907, undated
Map-folder 39	16, Bearing Brasses W.E'. and M. Co. Locomtive Motor #907, undated
Map-folder 39	17, Clamp for end of Locomotive Axle, undated
Map-folder 39	18, Hub for 2k Tooth Split Sprocket, Ironton Engine Co, undated
Map-folder 39	19, Rolled Steel Wheels and Axle for Ironton Locomotive, undated

Map-folder 39	20, Brake Cylinder and Details for 14" x 20" Rodgers Locomotive #23 Eckley, undated
Map-folder 39	21, Steel tires for Air Motors 25 to 29 - Coxe Brothers and Co. Inc, undated
Map-folder 39	22, Magnesia Lagging for Locomotives No. 14, 15 and 40, Drifton Colliery, undated
Map-folder 39	23, Locomotive Springs, undated
Map-folder 39	24, Details of Rogers Locomotive, Ho.22 For Eckley Colliery, undated
Map-folder 39	25, Details of 14" x 20" Baldwin Locomotive, undated
Map-folder 39	26, Steel Wrist Pin for 12" x 16" Vulcan Locomotive #112, undated
Map-folder 39	27, Grate Bars for 11" x 14" Clark Locomotive, undated
Map-folder 39	28, Mandrels for Turning Battery Loco. Wheels., undated
Map-folder 39	29, Brakes Shoes for 12" x 16" Vulcan Loco. No. 115, undated
Map-folder 39	30, Check Valve for 14" x 20" Rogers Locomotive No. 22 and 23 Eckley Col, undated
Map-folder 39	31, Check Valve Details, for 10" x 16" Baldwin Locomotive No.99, undated
Map-folder 39	32, Eccentric and Strap for 10"x 16 Baldwin Locomotive, undated
Map-folder 39	33, Rolled Steel Wheels and Axle for W.E and M. Co's Locomotive, undated
Map-folder 39	34, Deringer - Strial and 3561 Left Front, undated
Map-folder 39	35, Rolled Steel Wheels and Axle, undated
Map-folder 39	36, Wheel and Axle for 8 Ton Dual Powder Locomotive, undated
Map-folder 39	37, Steel Tires for Electric, undated
Map-folder 39	38, Rolled Steel Wheels and Axle for W.E. and M .Co. Locomotive #115, undated
Map-folder 39	39, Rolled Steel Wheels and Axle for W.E. M. Co. Locomotive, #65, undated
Map-folder 39	40, One Piece Brake Shoe and Head for Trolley Locomotive, undated
Map-folder 39	41, One Piece Brake Shoe and Head for Trenton type A-F, undated
Map-folder 39	42, Spring for Electric Locomotives, undated

Map-folder 39	43, Drawing number not used, undated
Map-folder 39	44, Dynamic Braking for Mine Locomotives, undated
Map-folder 39	45, Outline Drawing Mine Locomotive Brake Shoe, undated
Map-folder 39	46, Steel tire for Coxe Bros. Electric Locomotives, undated
Map-folder 39	47, Drawing number not used, undated
Map-folder 39	48, Drawing number not used, undated
Map-folder 39	49, Drawing number not used, undated
Map-folder 39	50, Drawing number not used, undated
Map-folder 39	51, Drawing number not used, undated
Map-folder 39	52, Transformer - Single Phase - DISC - 150 KVa - 25000, V.H.T, 2200 V L.T-60 cycle, undated
Map-folder 39	53, Dimensions of Dust Proof enclosing Case, undated
Map-folder 39	54, Diagrams of Connections-Transform-Single Phase, undated

Subseries 6.5.6: Drawings, Group 4.8

Map-folder 40	1, Cross Bars for Coxe Mine Oars, undated
Map-folder 40	2, Horizontal and Angle Pedestals for Gunboats, undated
Map-folder 40	3, Gunboat Loading Chute Door for Underground Haulage, undated
Map-folder 40	4, Gunboat Loading Chute Door for Underground Haulage, undated
Map-folder 40	5, Car Wheel Grinding at Deringer Colliery, undated
Map-folder 40	6, Details of Beaver Meadow Gage, undated
Map-folder 40	7, Unidentified, undated
Map-folder 40	8, Pedestal and Axle to be used, undated
Map-folder 40	9, Improved Hub Lubricating 18" Diameter Wheel, undated
Map-folder 40	10, Coxe Mine Car Door Latch Opener, undated

Map-folder 40	11, Detail of Boom Chain for Coxe Mine Cars, undated
Map-folder 40	12, Cast Iron Gears and Pinions for Car Haul at Buck Mt, #I4, undated

Subseries 6.5.7: Drawings, Group 4.9

Map-folder 40	1, Wiring Diagram of Automatic Starter, undated
Map-folder 40	2, Connections for Secondary Resistance Self Starter, undated
Map-folder 40	3, Lenin Belt Drive for 50 H.P. Motor Driven fan, undated
Map-folder 40	4, Wiring Diagram for W.E. and M. Co. Automatic Motor Starter, undated
Map-folder 40	5, Crosshead Brass for Mine Fan Engine, undated
Map-folder 40	6, Motor driven Fan, 6 'x 2' Jeffrey, undated
Map-folder 40	7, Outboard Pedestal and Base For 15'-0" x 6'-0 Exhaust Fan, undated
Map-folder 40	8, F.L. Smith and Co. Lenix Drive for 50 H Motor Driven Fan, undated
Map-folder 40	9 , Change from Engine Drive to Motor Drive, undated
Map-folder 40	10, Crank Shaft for Size I Four Valve Engine, undated
Map-folder 40	11, Details of 12" x 30" Single Side Crank Fan Engine, undated
Map-folder 40	12, Details for Fan, undated
Map-folder 40	13, 7" x 12 Ring Oiling Pedestal, undated
Map-folder 40	14, Outline Dimenious 9 x 24 x 24, undated

Subseries 6.5.8: Drawings, Group 4.11

Map-folder 41	1, General Arrangement and Bucket Details for Elevators, undated
Map-folder 41	2, General Arrangement and Bucket Details for Elevators, undated
Map-folder 41	3, Lehigh Colliery Coal Company's Heavy Pipe and Flangs, undated
Map-folder 41	4, 4 3/8" x 11 1/4" pedestal, undated
Map-folder 41	5, Underground Haulage Steel timbers, undated

Map-folder 41	6, House for Hoist and M.G. Set, undated
Map-folder 41	7, Proposed Overhead Electric Pole Line Crossover, undated
Map-folder 41	8, Method of Suspending Electric Shaking Chutes, undated
Map-folder 41	9, Jedds Highland Coal Co, undated
Map-folder 41	10, Beaver Meadow Refuse Tracks, undated
Map-folder 41	11, Details of Motor setting for Eckley Shop Drive, undated
Map-folder 41	12, C.I. Plates for Deringer transfer Conveyor, undated
Map-folder 41	13, 30" Grate Bars for Wash House Boiler, undated
Map-folder 41	14, C.I, Forge Grate, undated
Map-folder 41	15, Fire Door Shield for B. and W. Boiler at Drifton, undated
Map-folder 41	16, Unfinished Cast Iron Pattern N-2U52 Brake Shoe, undated
Map-folder 41	17, 20" x 42" x 1/2" Steel Reinforced Loading Gate, undated
Map-folder 41	18, Bottoms Fish Pit Frame Steel Plate, undated
Map-folder 41	19, Standard Frogs, and Turnouts of the American [Wining Congr?], undated
Map-folder 41	21, Wood flume, undated
Map-folder 41	22, Boiler Fuel Trestle, undated
Map-folder 41	23, Tile Engine House 28" x 30" for 21" x 28" Engine, undated
Map-folder 41	24, Office - Oil and Warehouse, undated
Map-folder 41	25, No.3 and No.5 Frogs, undated
Map-folder 41	26, Mine Car Dumps Trustle, undated
Map-folder 41	27, Trestle over Black Creek, undated
Map-folder 41	28, Cement Mixer Wheel, Axle, undated
Map-folder 41	29, Coal Hopper Chute for Breaker Boiler, undated
Map-folder 41	30, Std. 6" x 4 1/2" Curve Slope Roller, undated

Map-folder 41	31, Tunnel from Surface to Buck Mountain Vein Under Pennsylvania Reading Railroad, undated
Map-folder 41	32, Troughs for 8" Rope Conveyor, undated
Map-folder 41	33, Plan of Tracks for Crossover Dumps and Conveyor, undated
Map-folder 41	34, Highway Bridge over Locy Track, undated
Map-folder 41	35, Car Haul for Empty Cars to Gowen, undated
Map-folder 41	36, Proposed Location of Picking Head, undated
Map-folder 41	37, Back switch landing on top of No. 9 Slops, undated
Map-folder 41	38, Crane Girder and Support, undated
Map-folder 41	39, Details of Band W. Boilers, undated
Map-folder 41	40, Fire Room for B, Meadow Boiler House, undated
Map-folder 41	41, Fire Room for B, Meadow Boiler House, undated
Map-folder 41	42, Details of No 6 Boiler Eckley Colliery, undated
Map-folder 41	43, Rope Shield for Breaker Dump Chute, undated
Map-folder 41	44, Sheave Wheel for Breaker Boiler, undated
Map-folder 41	45, Details of Stream Shovel Dodge Chain Coal Drag, undated
Map-folder 41	46, G.I. Sheave, undated
Map-folder 41	47, Rims for Worm Gear-Cast Steel, undated
Map-folder 41	48, Steam Shovel, undated
Map-folder 41	49, Fire Door Plats For B. and W.Boiler, undated
Map-folder 41	50, Steel Timber for No. 75 slope Pump Room, undated
Map-folder 41	51, Pedestals for Slope Rollers, undated
Map-folder 41	52, Foreman's Office Eckley Slope No.6, undated
Map-folder 41	53, 17" x 18" C.I. Pulley for 100 Horse Power Motor, undated

Map-folder 41	54, Stack and Base for Heating Boiler, undated
Map-folder 41	55, Stack and Base for Heating Boiler, undated
Map-folder 41	56, Rocking Grate Bars for Erie City Boiler, undated
Map-folder 41	57, Crossing for Main Haulage Track at Mouth of Drifton, undated
Map-folder 41	58, Steel Mine Timber for Slope No.2, undated
Map-folder 41	59, Steel Mine Timber for Slope No.2, undated
Map-folder 41	60, Dimensions of Cat Corner Straight and Current Flights, undated
Map-folder 41	61, Standard Pipe Hangers, undated

Subseries 6.5.9: Drawings, Group 4.13

Map-folder 42	1, Foundation Plan and Layouts, undated
Map-folder 42	2, Motor House for Motor- Driving, undated
Map-folder 42	3, Changes in present airway and Foundation Plan, undated
Map-folder 42	4, Foundation Plan 4"-2 Stage cent Pump B-H, Company, undated
Map-folder 42	5, Foundation Plan and Conduit Layout, undated
Map-folder 42	6, Foundation Plan and Conduit Layout, undated
Map-folder 42	7, Floor Plan and Foundation for Hoist and M.G. Set, undated
Map-folder 42	8, Floor Plan of Hoist House, undated
Map-folder 42	9, Hoist House - Brick, undated
Map-folder 42	10, Floor Plan Outside Slope Hoist, undated
Map-folder 42	11, Foundation Plan for Lambert tight Drum Hoist, undated
Map-folder 42	12, Tile House for Electric Hoist, undated
Map-folder 42	13, 35-H.P. Self-Contained Geared Electric Slope Built, undated
Map-folder 42	13, Floor Plan of # slope Engine House and FTND Plan of Hoists, undated

Map-folder 42	14, 6" x 19" -7 Building Addition to Substation, undated
Map-folder 42	15, Under grade Crossing of the Pennsylvania Railroad, undated
Map-folder 42	16, Fire Proof Fan House for 20'x 6' Fan, undated
Map-folder 42	17, Engine House-Brick- a #11 slope hoist, undated
Map-folder 42	18, George Moore Brick Sub-Station, undated
Map-folder 42	19, #10 Slope Hoist House Outside, undated
Map-folder 42	20, Addition to Locomotive House, undated
Map-folder 42	21, Elevation of East, West and South Side of 8 inch Brick Wall, undated
Map-folder 42	22, Compressor House, undated
Map-folder 43	1-ES, locomotive wheel, undated
Map-folder 43	2-ES, Floor plans, hoist house, undated
Map-folder 43	3-ES, Electrical wiring, undated
Map-folder 43	4-Lehigh Valley Coal, undated
Map-folder 43	5-ES, Electrical wiring, undated

Subseries 6.6: Drawings, Pumps and Pipelines (Group 5)

Map-folder 44	1, 28" Balance Valve, undated
Map-folder 44	2, Jaw for Valve Steam Acid Resisting Bronze, undated
Map-folder 44	3, Details for G. D. G. Condenser, undated
Map-folder 44	4, Details for C. K. Pump, undated
Map-folder 44	5, 12" Valve Pot, Cover, Guard and Seat Worthington Compound Pump, undated
Map-folder 44	6, Details of Piston and Parallel Rods, undated
Map-folder 44	7, Details of Worthington Compound Pump, undated
Map-folder 44	8, Details of Worthington Compound Pump, undated

Map-folder 44	9, Details of Worthington Compound Pump, undated
Map-folder 44	10, Details for End Packed Plunger Pump, undated
Map-folder 44	11, Details of Worthington Compound Pumps, undated
Map-folder 44	12, Details of Worthington Compound Pumps, undated
Map-folder 44	13 Arrangement of 20" x 14" x 24" C. K. Pump, undated
Map-folder 44	14, Details of Steam End 20" x 24" C. K. Pump, undated
Map-folder 44	15, Details of Water End for 20" x 24" C. K. Pump, undated
Map-folder 44	16, Details of 10" x 7" x 15" Coxe Boiler Feed Pump, undated
Map-folder 44	17, Cast Iron, Pattern #P-1391, undated
Map-folder 44	18, Details of Cameron Pump, undated
Map-folder 44	19, Details, GSM Pump L. V. #707, undated
Map-folder 44	20, Details for Steam End of Jeanesville Pump., undated
Map-folder 44	21, Arrangement of Jeanesville Pump (Slope Pattern), undated
Map-folder 44	22, Details of Steam End for Jeanesville Simple Duplex Slope Pattern Pump, undated
Map-folder 44	23, Details of Water End for Jeanesville Pump, undated
Map-folder 44	24, Details of Water End for Jeanesville Pump, undated
Map-folder 44	25, Details for Jeanesville Feed Pumps, undated
Map-folder 44	26, Details for Jeanesville Feed Pumps, undated
Map-folder 44	27, Balance Valves, undated
Map-folder 44	28, Details of Worthington Compound Pump, undated
Map-folder 44	29, Water Cylinders for Worthington Compound Pump, undated
Map-folder 44	30, Details for Goyne Worthington Pump L, V, undated
Map-folder 44	31, Details for Goyne Worthington Pump L, V, undated

Map-folder 44	32, Detail of Worthington Compound End Packed Plunger Pump, undated
Map-folder 44	33, New Location of Goyne Pump Transferred from Primrose, undated
Map-folder 44	34, Water End Detail of Jeanesville Pump at Drifton, undated
Map-folder 44	35, Detail of Jeanesville Pump, undated
Map-folder 44	36, Barometric Condenser, undated
Map-folder 44	37, Details for Jeanesville Pump, undated
Map-folder 44	38, Special Elbows for Replacing L. D. G. Condenser Pump, undated
Map-folder 44	39, Arrangement of Water End for Jeanesville Pump, undated
Map-folder 44	40, Details for L. D. G. Jeanesville Pump, undated
Map-folder 44	41, Alterations to L. D. G. Jeanesville Pump, undated
Map-folder 44	42, Gowen #4 Slope Pump Room, undated
Map-folder 44	43, Foundation Plan of Two 6"-3 Stage Centrifugal Pumps, undated
Map-folder 44	44, Detail of Steam End for 20" x 24 & 12" x 24" C.K. Pump, undated
Map-folder 44	45, General Plan of 5" D. S. Volute Auxiliary Pump for Breaker Water, undated
Map-folder 44	46, Details of Well Pump and Connections for 17 foot IXL Worm Gear, undated
Map-folder 44	46, Foundation Plan for #1 Hoist House, undated
Map-folder 44	46, General Plan of Well Pump and Foote Bros. Worm Gear, undated
Map-folder 44	47, Impeller and Detail for 5" Double Suction Volute, undated
Map-folder 44	48, 2-8" D. S. Volute Pumps, Foundation and Suction Piping from 16-3 Diameter Tank, undated
Map-folder 44	49, Plan and Section of 12" Column Line on Surface, undated
Map-folder 45	50, Plan and Cross Section of #1 Slope, undated
Map-folder 45	51, General Arrangement of Pump Room, and Piping Plan, undated
Map-folder 45	52, Valve Chest and Details, undated

Map-folder 45	53, Change Section and Discharge to Opposite Sides, undated
Map-folder 45	54, Details for Boiler Feed Pump Size 7" x 10" x 15", undated
Map-folder 45	55, Castings for Coxe Pump 6n or 7" & 8" by 15" Boiler Pump, undated
Map-folder 45	55, Arrangement of Coxe Pump 6" or 7" & 8" by 15" Boiler Pump, undated
Map-folder 45	55, Forgings for Coxe Pump 6" or 7" by 15" Boiler Pump, undated
Map-folder 45	55, Castings for Coxe Pump 6" or 7" and 8" by 15" Boiler Pump, undated
Map-folder 45	56, Details of Boiler Feed Pump Size 7" x 10"|to 10" x 15", undated
Map-folder 45	57, Cylinder 84 inches Plunger 10" Stoke 48", undated
Map-folder 45	58, Details for C. K. Pumps 14" x 20" x 24" or 12" x 24 Scale 3"- 6" to one foot, undated
Map-folder 45	58, Valve Guard Brass, undated
Map-folder 45	58, Rubber Valve, undated
Map-folder 45	58, Details for C. K. Pump 14" x 20" x 24" or 12" x 20" x 24" Scale 3", 6" to 1 ft, undated
Map-folder 45	59, Improvement on Coxe Knowles Pump Size 20" and 14" x 24", undated
Map-folder 45	60, Detail of Knowles Pump, undated
Map-folder 45	61, Details of Compound Knowles Pump Sizes 20" x 12" x 12" or 14" x 24", undated
Map-folder 45	61, General Arrangement, undated
Map-folder 45	61, Details for Knowles Pump 12" or 14" Water 20" Steam End, undated
Map-folder 45	62, Details, undated
Map-folder 45	62, Details for Pumps Knowles Different Sizes, undated
Map-folder 45	62, Details of Knowles Pump Sizes 12" x 14" x 24" Stroke, undated
Map-folder 45	63, Gordon and Maxwell Pump, undated
Map-folder 45	64, Details for Gordon and Maxwell Pump at Drifton #1, undated
Map-folder 45	65, Details for L. D. G, Condenser, undated

Map-folder 45	66, Detail Duplex Comp. L. D. G. Pump, undated
Map-folder 45	66, Steam End for Duplex Comp. L.D.G. Pump, undated
Map-folder 45	66, Arrangement of Duplex Compound L.D.G. Pump, undated
Map-folder 45	66, Arrangement of Duplex Compound L.D.G. Pump, undated
Map-folder 45	67, Details for Jeanesville Pump, undated
Map-folder 45	67, Details for Jeanesville Pump, undated
Map-folder 45	67, Details for Jeanesville Pump, undated
Map-folder 45	68, Details for Knowles Pump, undated
Map-folder 45	69, Details for Knowles Pump, undated
Map-folder 46	70, Korting Condenser Details, undated
Map-folder 46	71, Details for Gordon & Maxwell Pump, undated
Map-folder 46	72, Gordon & Maxwell Pump., undated
Map-folder 46	73, Gordon & Maxwell Pump., undated
Map-folder 46	74, Artesian Well Details, undated
Map-folder 46	75, Details of 20" x 14" x 36" Pump, undated
Map-folder 46	75, Plan and Elevation of 20" x 14 x 36 " Pump, undated
Map-folder 46	75, Details of 20" x 14" x 36" Pump, undated
Map-folder 46	76, Details of Cameron Pumps Different Sizes, undated
Map-folder 46	77, The Cox Iron Manufacturing Company, undated
Map-folder 46	78, Suction & Discharge Valve, Full Size, undated
Map-folder 46	79, Pump for Diamond Drill, undated
Map-folder 46	80, Details for Clark Pump, undated
Map-folder 46	81, Details for Downies Pumps, undated
Map-folder 46	81, Miscellaneous Pumps, undated

Map-folder 46	82, Details for Latta Martin Air Pump, undated
Map-folder 46	83, Details for Worthington Pump Porter House, undated
Map-folder 46	84, Details of Different Pumps, Different Places, undated
Map-folder 46	85, Hand Pump for Mines, undated
Map-folder 46	86, Miscellaneous Pump Details, undated
Map-folder 46	87, Details of Different Pump, Different Makes & Sizes, undated
Map-folder 46	88, Method of Securing Discharge Pipe in 18 Bore Hole, undated
Map-folder 46	89, Pipes Ells and Flanges for #4 Gowen Pump, undated
Map-folder 46	90, Water Pipe Connection, undated
Map-folder 46	91, Miscellaneous Pipe Details., undated
Map-folder 46	91, 16" Column Line for L.D.G. Pump, undated
Map-folder 46	91, Miscellaneous Pipe Details, undated
Map-folder 46	92, Details of 16' Check Valve for L.D.G, Pump, Drifton #2, undated
Map-folder 46	93, Barometric Condenser, undated
Map-folder 46	94, Certified Plan of 9" x 10", undated
Map-folder 46	95, Plan of Foundation for 5, 2 Stage Turbine Pump, undated
Map-folder 46	96, Plan of Foundation for 5, 2 Stage Turbine Pump, undated
Map-folder 47	Knowles pump class L-6, undated
Map-folder 47	Details of steam end for 20 x 24 and 12 x 24 C.K. Pump, undated
Map-folder 47	Details of 10" x 7" x 15", Coxe Boiler Feed Pump, 1909
Map-folder 47	Details of Coxe comp pump compensating, 1889
Map-folder 47	Triple compound air compressor, 1898
Map-folder 47	Plan and profile of pump room, Gowen No. 4 Slope, 1918
Map-folder 47	Deringer Colliery, Gowen No. 4 pump, 1917

	6 Copies
Map-folder 47	Cast iron specials ells for new breaker pump, 1907
Map-folder 47	Indicator cords, Deringer Colliery, Harwood Electric Power Company, 1909

Subseries 6.7: Drawings, Hoisting Engines and Cages (Group 6)

Map-folder 48	1, 12" x 12" Geared Hoisting : Engine, undated
Map-folder 48	2, 12" x 12" Geared Hoisting : Engine, undated
Map-folder 48	3, Details of 12" x 12" Coxe Engine (Piston Valve Type), undated
Map-folder 48	4, Details of 12" x 12" Coxe Engine (Piston Valve Type), undated
Map-folder 48	5, Electric Hoist Gowen #4 Slope, undated
Map-folder 48	6, Alteration in Throttle, undated
Map-folder 48	7, 400 H. P. Geared Electric Hoist for Eckley #7 Slope, undated
Map-folder 48	8, Foundation Plan and Piping Layout, undated
Map-folder 48	9, Throttle Valve, undated
Map-folder 48	10, Diagram Showing Course of Water and Air, undated
Map-folder 48	11, Details for Ingersol Air Compressor, undated
Map-folder 48	12, 5" Pressure Regulator for Air Compressors, undated
Map-folder 48	13, 24" Triple Compound Compressor, undated
Map-folder 48	14, Cross Compound two Stage Air Compressor, undated
Map-folder 48	15, Cross Compound two Stage Air Compressor, undated
Map-folder 48	16, 16"|-12 1/2 -5 5/8 x 24" Triple Compound Air Compressor, undated
Map-folder 48	17, Diagram Showing Course of Water, undated
Map-folder 48	18, Arrangements of Air Receivers Showing Wall and Piping, undated
Map-folder 48	19, Beaver Meadow #2 Air Compressor, undated

Map-folder 48	20, Different Details for Air Compressor, undated
Map-folder 48	21, Air Compressors for Oneida Deringer and Beaver Meadow, undated
Map-folder 48	22, Air Compressors for Oneida Deringer and Beaver Meadow, undated
Map-folder 48	23, Norwalk Air Compressor at Drifton #2, undated
Map-folder 48	24, Details for Rand Air Compressor at Beaver Meadow, undated
Map-folder 48	25, Various Details for a Rand Air Compressor, undated
Map-folder 48	26, Details for 20" x 24" Air Compressor at Beaver Meadow, undated
Map-folder 48	26, Details for 20" x 24" Air Compressor at Beaver Meadow, undated
Map-folder 48	27, Details for Norwalk Air Compressor, undated
Map-folder 48	28, Outline and Foundation Plan of Electric Hoist, undated
Map-folder 48	29, Alterations on Hoist to Change from Steam to Motor Drive #9 inside, undated
Map-folder 48	30, #9 Slope floor Layout for Hoist & Substation Building, undated
Map-folder 48	31, Conduit Layout for #4 Slope Hoist, undated
Map-folder 48	32, Hoist Outline showing addition of Bracket, undated
Map-folder 48	34, Detail and Conduit floor plan of Hoist, undated
Map-folder 48	35, Outline of GE Cots Type HCC 200 K.Wt Synconverter, 275 Volts DC, undated
Map-folder 48	36, Details of 2200 Volt Root Entrance, undated
Map-folder 48	37, Switchboard and Wiring Diamond for Substation, undated
Map-folder 48	38, Switchboard Details automatic Substation, undated
Map-folder 48	39, Wiring Diagram Automatic, Rotary Converter Substation, undated
Map-folder 48	40, Electric Substation for 160 K.W. Motor Generator Set, undated
Map-folder 48	41, Electric General Layout & Foundation Plan for 22500/440 Volt Substation, undated
Map-folder 48	42, General Assembly of Substation and 2200 Volt Wiring Details, undated

Map-folder 48	43, Floor Plan of Bus Bar Supports over Transformers, undated
Map-folder 48	44, Wiring Diagram of M.G. Set Substation, undated
Map-folder 48	45, Mounting for Oil Circuit Breaker and Metering Equipment, undated
Map-folder 48	46, Detail and Foundation Plan switching tower, undated
Map-folder 48	47, 19 x 24 Double Engine, undated
Map-folder 48	48, 150 H. P. Electric Hoist and House, undated
Map-folder 48	49, Hoist House and New Control Room, undated
Map-folder 48	50, General Arrangement and Foundation Plan, undated
Map-folder 48	51, Lambert Hoisting Engine Company, undated
Map-folder 48	51, Floor Plan Outside Slope Hoist, undated
Map-folder 48	51, Foundation Plan for Lambert Tight Drum Hoist, undated
Map-folder 48	52, Drum Shaft and Pedestal 16" x 30" Touhill Hoisting Engine, undated
Map-folder 48	52, Details of Hand Brake for Jeddo 4 Slope B Electric Hoist, undated
Map-folder 48	52, Resistor Support for Electric Hoist #6 Eckley, undated
Map-folder 48	53, Motor Attachment for Jeddo-Highland Coal Company, undated
Map-folder 48	54, 150 P. Electric Hoist for Eckley Slope, undated
Map-folder 48	55, Floor Plate Brake Quadrant and Reach Rod, undated
Map-folder 49	57, Brake Band and Details, undated
Map-folder 49	58, Resistor Support for Beaver Meadow Slope #8, undated
Map-folder 49	59, Buck Mountain Slope #14 Automatic Substation, undated
Map-folder 49	60, Details for 14" x 20" Self Contained Vulcan Hoist #861, undated
Map-folder 49	61, General Arrangement and Detail of Post Brake. Electric Hoist, undated
Map-folder 49	63, General Arrangement of Beaver Meadow Slope #8, 150 H.P. Electric Hoist, undated

Map-folder 49	64, 124 Tooth Gear for 17 x 24 [Stroke?] Hoisting Ending, undated
Map-folder 49	65, Buca Nelu '14, undated
Map-folder 49	66, Buca Nelu '14, undated
Map-folder 49	67, Buca Nelu Slope, undated
Map-folder 49	68, Details of 13" x 24" Hoist Engine, undated
Map-folder 49	69, Details for Deringer #4 Slope Hoisting Engine, undated
Map-folder 49	70, Details for Deringer #6 Slope Hoisting Engine, undated
Map-folder 49	71, Details of 13" x 24" Porter Allen Engine at Deringer Breaker, undated
Map-folder 49	72, Details for 17 7/32" x 24" Hoisting Engine, undated
Map-folder 49	73, 12" x 12" Hoisting Engine for #4 Gowen, undated
Map-folder 49	74, Details for 12" x 15" Friction Engine, Gowen Mine, undated
Map-folder 49	75, Details for Hoisting Engine, undated
Map-folder 49	76, Arrangement of Hoisting Engine at Gowen #7, undated
Map-folder 49	77, 10" x 24" Hoisting Engine for Tomhicken #5, undated
Map-folder 49	78, 12" & 12" x 12" Hoisting Engine in #4 Gowen Mine, undated
Map-folder 49	79, 14" x 24" Hoisting Engine for Buck Mountain Stripping, undated
Map-folder 49	79, Steam Brake for 14" x 24" Engine Buck Mountain Stripping, undated
Map-folder 50	80, 14" x 24" Hoisting Engine for Buck Mountain Stripping, undated
Map-folder 50	81, Details of 21" x 38" Hoist Engine for Buck Mountain, undated
Map-folder 50	82, Details of Steam Brake for 21" x 38" Hoisting Engine, undated
Map-folder 50	83, General. Arrangement of Piston Valve Engine 3" or 4" x 6", undated
Map-folder 50	84, Details for 16 3/16" x 30" Hoisting Engine, undated
Map-folder 50	85, Stroke Engine, undated
Map-folder 50	86, Details for #2 Drifton Gunboat Hoisting Engine, undated

Map-folder 50	87, Details for #2 Drifton Gunboat Hoisting Engine, undated
Map-folder 50	88, Brake Arrangement for #2 Drifton Hoisting Engine, undated
Map-folder 50	89, Direct Acting Double Engine 22" x 72', undated
Map-folder 50	90, Cylinder for Direct Acting Double Engine 22" x 72", undated
Map-folder 50	91, Direct Acting Double Engine 22 inches diameter 6 ft. Stroke, undated
Map-folder 50	91, Direct Acting Double Engine Cylinder 22" x 72", undated
Map-folder 50	91, Wrought Iron for Double Engine Direct Acting 22" x 72", undated
Map-folder 50	91, Details of #2 Drifton Hoisting Engine, 22" x 72", undated
Map-folder 50	92, Details of East Fan Engine #2 Drifton, undated
Map-folder 50	94, Details for Gifford Engine #2 Drifton, undated
Map-folder 50	95, Details for #2 Drifton Barney Hasting Engine., undated
Map-folder 50	96, Stroh Engine Solid Drum Spider, undated
Map-folder 50	98, Detail for #2 Drifton Barney Hoisting Engine, undated
Map-folder 51	100, Details of 10" x 30" Hoist Engine #2 Drifton West, undated
Map-folder 51	101, Modifications of Brake on Hoist Drum Slope, undated
Map-folder 51	102, 10" x 30" Hoisting Engine for #2 Drifton West, undated
Map-folder 51	103, Brake for 10" x 30" Hoisting Engine #2 Drifton West, undated
Map-folder 51	104, Details of 10" x 30" Hoist Engine #2 Drifton West, undated
Map-folder 51	105, Details of #2 Drifton Breaker Engine, undated
Map-folder 51	106, Details of #2 Drifton Breaker Engine, undated
Map-folder 51	107, Details for 14" x 30" Engine at Machine Shop, undated
Map-folder 51	108, Details for 14" x 30" Engine at Machine Shop, undated
Map-folder 51	109, Details for 14" x 30" Engine at Machine Shop, undated
Map-folder 51	110, Three Way Valve for Hoisting Engine Brakes, undated

Map-folder 51	111, Details for Hoisting Engine at #1 Drifton, undated
Map-folder 51	112, Details for Hoisting Engine at #1 Drifton, undated
Map-folder 51	113, Details for Hoisting Engine at #1 Drifton, undated
Map-folder 51	114, Details for Hoisting Engine at #1 Drifton, undated
Map-folder 51	115, Details for Hoisting Engine at #1 Drifton, undated
Map-folder 51	116, Foundation Plan for Hoisting Friction Engine, undated
Map-folder 51	117, Westinghouse Engine, undated
Map-folder 51	118, Details of 12" & 18 5"/32 x 36" Compound Engine, undated
Map-folder 51	119, Details of 12" and 18 5"/32 x 36" Compound Engine, undated
Map-folder 51	120, Details for Double Hoisting Engine for #5 Slope, undated
Map-folder 51	121, Details for Drifton Engine of Sinking Slope #5, undated
Map-folder 51	122, Details for Drum for inside Plan Drifton #2, undated
Map-folder 51	123, Details for Fan Engine at Beaver Meadow Boiler, undated
Map-folder 51	124, Details for 12" x 16" Erie Engine at Beaver Meadow, undated
Map-folder 51	125, Details for 12" x 16" Erie Engine at Beaver Meadow, undated
Map-folder 51	126, Details for 12" x 16" Erie Engine at Beaver Meadow, undated
Map-folder 51	127, Details for 12" x 16" Erie Engine at Beaver Meadow, undated
Map-folder 51	128, Detail for 24" x 15 1/2" Hoisting 11 Engine, undated
Map-folder 51	129, Detail for 24" x 15 1/2" Hoisting 11 Engine, undated
Map-folder 51	130, Details of Stearn Brake for Hoisting Engine, undated
Map-folder 51	131, Details of Stearn Brake for Hoisting Engine, undated
Map-folder 51	132- Arrangement for 16" x 30" Hoisting Engine, undated
Map-folder 51	133, General Plan of Fan Engine 14" x 24" Stroke, undated
Map-folder 51	134, Segment brackets for Gear Wheel on double Hoisting Engine, undated

Map-folder 51	135, Details of Engine 14" x 24" Stroke for Fan, undated
Map-folder 51	136, 36" x 21" x 38" Com. Hoist Engine, undated
Map-folder 51	137, General Arrangement of 36" and 21" by 38" Compound Hoisting Engine, undated
Map-folder 51	138, General Arrangement of 36" and 21" by 38" Compound Hoisting Engine -, undated
Map-folder 51	139, General Arrangement of 36" and 21" by 38" Compound Hoisting Engine-, undated
Map-folder 51	140, General Arrangement of 36" and 21" by 38" Compound Hoisting Engine-, undated
Map-folder 51	141,General Arrangement of 36" and 21" by 38" Compound Hoisting Engine, undated
Map-folder 51	142,General Arrangement of 36" and 21" by 38" Compound Hoisting Engine, undated
Map-folder 51	143, Number not used, undated
Map-folder 51	144, General Arrangement of 36" and 21" by 38" Compound Hoisting Engine, undated
Map-folder 51	145, General Arrangement of 36" and 21" by 38" Compound Hoisting Engine, undated
Map-folder 51	146, General Arrangement of 36" and 21" by 38" Compound Hoisting Engine, undated
Map-folder 51	147, General Arrangement of 36" and 21" by 38" Compound Hoisting Engine, undated
Map-folder 51	148, General Arrangement of 36" and 21" by 38" Compound Hoisting Engine, undated
Map-folder 52	149, Detail for Different Engines Oneida, undated
Map-folder 52	150, Location of 12" and 24" Engine and Shaft, undated
Map-folder 52	151, Brake Arrangement of Oneida #2 Slope Hoisting Engine, undated
Map-folder 52	152, Details of Brake Arrangement of Oneida #2 Slope Hoisting Engine, undated
Map-folder 52	153, Details of Oneida #2 Slope Hoisting Engine, undated

Map-folder 52	154, Details for Hoisting Engine at Oneida #1, undated
Map-folder 52	155, Details for Hoisting Engine at Oneida #1, undated
Map-folder 52	156, Details for Hoisting Engine at Oneida #1, undated
Map-folder 52	157, Details for 16" x 20" Fan Engine at Oneida #5, undated
Map-folder 52	158, Steam Brake for #5 Oneida Hoisting Engine, undated
Map-folder 52	159, Details for Hoisting Engine at Oneida #6, undated
Map-folder 52	160, Details for Hoisting Engine at Oneida #6, undated
Map-folder 52	161, Details for 10" x 20" Hoisting Engine at Oneida #6, undated
Map-folder 52	162, Brake for #6 Oneida Hoisting Engine, undated
Map-folder 52	163, Details of 15 15/16" x 48" engine for Timber Slope Oneida #1, undated
Map-folder 52	164, Details for Compound Engine size 17" & 30" by 30" Stroke, undated
Map-folder 52	165, Details of 9" x 16" Porter Allen Engine, undated
Map-folder 52	166, Proposed Plan for Conveyor Engine, undated
Map-folder 52	167, General Arrangement of Oneida Breaker Engine and Shafting, undated
Map-folder 52	168, Details for Engine 12" x 24" at #2 Drifton Drag, undated
Map-folder 52	169, Details for Hoisting Engine #2 16" & 16" by 24" Stroke, undated
Map-folder 52	170, Details of 12" x 24" Hoisting Engine for East Slope Stockton, undated
Map-folder 52	170, Details of 12" x 24" Hoisting Engine for East Slope Stockton, undated
Map-folder 52	171, 13" x 24" Hoisting Engine for Deringer, undated
Map-folder 52	172, Drum and Shaft for Oneida #2, undated
Map-folder 52	173, 34" x 24" Hoisting Engine for Beaver Meadow, undated
Map-folder 52	174, Steel and Wrought Iron Details, undated
Map-folder 52	175, Details of 12" x 24" Hoisting Engine, undated
Map-folder 52	176, Details for Piston Valve Engine 8" x 8" Double, undated

Map-folder 52	177, Details for Piston Valve Engine 8" x 8" Double, undated
Map-folder 52	178, Details for Piston Valve Engine 8" x 8" Double, undated
Map-folder 52	179, Details for Piston Valve Engine 8" x 8" Double, undated
Map-folder 52	180, Details of 12" x 24" Hoisting Engine for East Slope Stockton, undated
Map-folder 52	181, Details for 12" x 24" Engine with Piston Valve, undated
Map-folder 52	182, Details for 12" x 24" Engine with Piston Valve, undated
Map-folder 52	183, Details for 12" x 24" Engine with Piston Valve, undated
Map-folder 52	184, Details of 12" x 24" Hoisting Engine for East Slope Stockton, undated
Map-folder 52	185, Details for 12" x 24" Engine, undated
Map-folder 52	186, Details for 12" x 24" Engine with Piston Valve, undated
Map-folder 52	187, Details for Engine 12" x 24" at Oneida Breaker, undated
Map-folder 52	188, General Drawings for Piston Valve Engine, undated
Map-folder 52	189, 12" x 24" Hoisting Engine for East Slope Stockton, undated
Map-folder 52	190, 12" x 24" Hoisting Engine for East Slope Stockton, undated
Map-folder 52	191, 12" x 24" Hoisting Engine for East Slope Stockton, undated
Map-folder 52	194, Details of Different Engine at Different Places, undated
Map-folder 52	195, Details of Different Engine at Different Places, undated
Map-folder 52	196, Details of Different Engines at Different Places, undated
Map-folder 52	197, Details of Different Engines at Different Places, undated
Map-folder 52	198, Details for Hoisting Engine, undated
Map-folder 52	199, Brake for Engine at Green Mountain, undated
Map-folder 52	200, Details of Automatic Compound High-Speed Engine, undated
Map-folder 52	201, Details of Automatic Compound High-Speed Engine, undated
Map-folder 52	202, 6" x 12" Piston Valve Engine, undated

Map-folder 52	203, 6" x 12" Piston Valve Engine, undated
Map-folder 52	204, Details for 13" x 3.6" Piston Valve Engine, undated
Map-folder 52	205, Detail of Different Engines at Different Places, undated
Map-folder 52	206, Detail of Porter-Allen Engine for Different Places, undated
Map-folder 52	207, Details of Different Engines at Different Places, undated
Map-folder 52	208, Details for Different Engine at Different Places, undated
Map-folder 52	209, Plan of Bed Plate for 14" x 24" Hoisting Engine, undated
Map-folder 52	210, Details for 8' x 8' Piston Valve Engine, undated
Map-folder 52	211, Details of 8' x 8' Piston Valve Engine with Link Motion, undated
Map-folder 52	212, Details for Snyder Jig Engine, undated
Map-folder 52	213, Pipe Connections for #2 Drifton Air Compressors, undated
Map-folder 52	214, 3* Stop Valve for High Pressure Air Lines, undated
Map-folder 52	214, Details of Air Lines for Different Places, undated
Map-folder 52	214, Different Pipes and Fitting for Oneida, undated
Map-folder 52	214, Details of 3 Stop Valve for Pressure Air Lines, undated
Map-folder 52	214, Details for Air Lines at Different Places, undated
Map-folder 52	215, Shaft and Axle Bedplate for 8" x 8" Engine, undated
Map-folder 53	216, Bill of Material, undated
Map-folder 53	217, Bill of Material, undated
Map-folder 53	218, Detail Connection Use, undated
Map-folder 53	219, Drilling Plan for Rear Connected Meters, undated
Map-folder 53	220, A. C. Motor Cross Connection Diagram, undated
Map-folder 53	221, Lighting Arrester, undated
Map-folder 53	221, Motor Generator Set R.P.M, undated

Map-folder 53	221, Diagram of Connection, undated
Map-folder 53	222, Assembly of Lighting Arrester, undated
Map-folder 53	223, Automatic Switching Equipment Engineering Wiring, undated
Map-folder 53	224, Kerr Turbine #331 Drifton Colliery, undated
Map-folder 53	224, Connection Diagram of 50 KW 250 Volt, Frame K-9, undated
Map-folder 53	225, 22,000 Volt Outdoor Substation, undated
Map-folder 53	225, 22,000 Volt Substation, Erection Diagram, undated
Map-folder 53	225, 22,000 Outdoor Substation, undated
Map-folder 53	225, Current Transformers 150/5 Amps, undated
Map-folder 53	226, Erection Diagram and Foundation Plan, undated
Map-folder 53	227, Hoist Outline Showing Additional Bracket, undated
Map-folder 53	227, Electrodes, undated
Map-folder 53	227, Outline, undated
Map-folder 53	227, G. E. 22,000 Volt 150 Ft. P. Motor, undated
Map-folder 53	228, Armature Winding for Induction Motor, undated
Map-folder 53	228, Armature Winding for 6-200-1,200 Synchronous Motor, undated
Map-folder 53	228, Field Connection for 150 H.P. Synchronous Motor, undated
Map-folder 53	228, Field Coil Details for 6-200-1200 Synchronous Motor, undated
Map-folder 53	228 Armature Winding for 6-100-1200 Generator, undated
Map-folder 53	228 Diagram of Connection 4000 Volt 3 P.H. Synchronous Motor, undated
Map-folder 53	229, Outline, undated
Map-folder 53	229, Single Drum Hoist Drum Bottled to Gear, undated
Map-folder 53	229, Connections for A.C. Full Reverse Rope Hoist Controller, undated
Map-folder 53	230, Electric Hoist Single Fixed Drum, undated

Map-folder 53	230, Foundation Plan Flory Hoist Drifton #12 Slope, undated
Map-folder 53	231, Foundation Plan, undated
Map-folder 54	Detail of cage for breaker at Beaver Meadow, 1899 2 Copies
Map-folder 54	150 HP self-contained electric slope hoist, Stockton # 2 Slope, 1912
Map-folder 54	Details for self-dumping steel cage, Lehigh Valley Coal Company, 1935 10 Drawings (visual works)
Map-folder 54	Dorrance cage, undated 2 Drawings (visual works)
Map-folder 54	Special cage for lowering equipment, 1957 2 Drawings (visual works)
Map-folder 54	Self-dumping safety cage at Dorrance Colliery, 1936
Map-folder 54	Deck lock for self-dumping cage at Dorrance Colliery, 1929

Subseries 6.8: Drawings, Locomotives and Steam Shovels (Group 7)

Map-folder 55	1, Boiler for 14" x 20" Locomotive Rogers Type, undated
Map-folder 55	2, Details of 10 1/2" x 14" and of 8" x 12" H.K. Porter Air Locomotives, undated
Map-folder 55	3, Motor Axle Lining and Journal Brass, undated
Map-folder 55	4, Details of 12" x 16" Vulcan Locomotive #115, undated
Map-folder 55	5, Details for a 14"-20" Locomotive, undated
Map-folder 55	6, Details of 14" x 20" Locomotive Scale 3' to 1 foot, undated
Map-folder 55	7, Details of Stand Locomotive, undated
Map-folder 55	8, Details of Stand Locomotive, undated
Map-folder 55	9, Details for 13" x 14" Locomotive, undated
Map-folder 55	10, Relief Valve for 14" x 20" Baldwin Locomotive, undated
Map-folder 55	11, Relief Valve for 12" x 16" Vulcan Locomotive, undated

Map-folder 55	12, Saddle Tank and Details for 11" x 14" Coxe Locomotives, undated
Map-folder 55	13, Single Block Locomotive Transportation Signal, undated
Map-folder 55	14, Single Block Locomotive Transportation Signal, undated
Map-folder 55	15, Details of 14" x 20" Baldwin Locomotive, undated
Map-folder 55	16, No Identification, undated
Map-folder 55	17, Details of Standard Locomotive 8" x 14" #12, undated
Map-folder 55	17, Details of Standard Locomotive, undated
Map-folder 55	17, General Arrangement of 8" x 14" Locomotives, undated
Map-folder 55	17, Details of Standard Locomotives, undated
Map-folder 55	18, Details of 10" x 14" Mine Locomotives, undated
Map-folder 55	19, Details for 11" x 14" Mine Locomotives, undated
Map-folder 55	19, Details for Improved Valve Motion, undated
Map-folder 55	19, Details for 11" x 14" Locomotive, undated
Map-folder 55	19, Stack and Base for 11" x 14" Coxe Locomotive, undated
Map-folder 55	19, Steel Tires for 13" x 14" and 11" x 14" Mine Locomotives, undated
Map-folder 55	19, 11" x 14" Locomotives, undated
Map-folder 55	19, Details of 11" x l4" Locomotive, undated
Map-folder 55	19, Standard Boiler & Tank for #15 Locomotive, undated
Map-folder 56	19, Details of Standard Locomotive, undated
Map-folder 56	20, Details for 13" x 14" Locomotive, undated
Map-folder 56	20, Improvement on 13" x 14" Locomotives, undated
Map-folder 56	20, Details for 13" 14" Locomotives, undated
Map-folder 56	20, Steel Tires for 13" x 14" Mine Locomotive, undated
Map-folder 56	20, Details of Shaking Grates 13" x 14" Locomotive, undated

Map-folder 56	20, 13" x 14" Locomotive, undated
Map-folder 56	20, Details for 13" x 14" Locomotive, undated
Map-folder 56	21, Tools for Mine Locomotive, undated
Map-folder 56	22, Details of Locomotive for Hazlebrook, undated
Map-folder 56	23, Details for different Locomotives, different sizes, undated
Map-folder 56	24, Model Locomotive, undated
Map-folder 56	25, Details of 14" x20" Locomotive Tender Frame & Tank, undated
Map-folder 56	25, Arrangement of 14" x 20" Locomotive Rogers Type, undated
Map-folder 56	25, Arrangement of 14" x 20" Locomotive Rogers Type, undated
Map-folder 56	25, Details for 14" x 20" Locomotive Baldwin and Rogers Type, undated
Map-folder 56	25, Details for 14" x 20" Baldwin Locomotive, undated
Map-folder 56	25, Details for 14" x 20" Locomotive Rodgers Type, undated
Map-folder 56	26, Chilled Wheel for 14" x 20" Mine Locomotive, undated
Map-folder 56	25, Detail of 14" x 20" Locomotive, undated
Map-folder 56	25, Details of 14" x 20" Locomotive Rogers Type, undated
Map-folder 56	25, Steel Tire for 14" x 20" Mine Locomotive, undated
Map-folder 57	26, Steel Tires for Air Motors 25 to 29, undated
Map-folder 57	27, Compound Pneumatic Motor Designed for Eckley B. Coxe, undated
Map-folder 57	27, Details for #24 Air Motor at Drifton #5, undated
Map-folder 57	27, Valves for Air Pipe Lines, undated
Map-folder 57	27, No Identification, undated
Map-folder 57	27, Details for Air Motors at Drifton, undated
Map-folder 57	27, Details for Air Motors at Drifton, #30, undated
Map-folder 57	27, Details for Air Motors at Drifton, #26 & #27, undated

Map-folder 57	27, Details for Air Motors at Drifton #25, undated
Map-folder 57	27, Details for Air Motors at Drifton, #24, #28, #29, undated
Map-folder 57	27, Details for Air Motors at Drifton #24-28, #29, undated
Map-folder 57	27, Details of 10" x 14" Air Motor, undated
Map-folder 57	27, Wrought Iron Details of 10" x 14" Air Motor, undated
Map-folder 57	27, Cast Details of 10 1/2" x 14" Air Motor, undated
Map-folder 57	27, No Identification, undated
Map-folder 57	27, Steel Tires for 10 1/2" x 14" Air Motor, undated
Map-folder 57	27, Details for Air Motor 10 1/2" x 14", undated
Map-folder 57	27, Detail for Air Motors, undated
Map-folder 57	27, Details for Small Air Motors, undated
Map-folder 57	28, Outline of Type 907 W.E. & Manufacturing Company, Trolley Locomotive, undated
Map-folder 58	Revolving shovel general arrangement, drawing V20202, 1912
Map-folder 58	Revolving shovel general arrangement, drawing V20205, 1913
Map-folder 58	180 and 90 degree gas pipe bends, Lehigh Valley Coal Company, 1906
Map-folder 58	Motor axle lining and journal brass for 10 ton Westinghouse Electric locomotove, 1930
Map-folder 58	Details of 12" x 16" Vulcan locomotive #115, 1930
Map-folder 58	Details of standard locomotive 11" x 14", drawing C-497, 1888
Map-folder 58	Details of standard locomotive 11" x 14", drawing C-496, 1888
Map-folder 58	Details for 13" x 14" locomotive, drawing C-515, 1891
Map-folder 58	Detroit Lubricator Company, Triple Feed Locomotive Lubricator, drawing 1676, 1904
Map-folder 58	Details of standard locomotive 11" x 14", 6" to 1" foot, 1889
Map-folder 58	Details of 14" x 20" locomotive scale 3" to 1 foot, drawing C-539, 1896

Map-folder 58	Details for 14" x 20" locomotive, drawing C-580, 1901

Subseries 6.9: Drawings, Mine Cars [Barneys], Gunboats, Cages, Loading/Unloading (Group 8)

Map-folder 59	1, Dump Chute House and Car Haul, undated
Map-folder 59	2, General Arrangement and Details of Standard Mine Buggy, undated
Map-folder 59	3, Barney Pit and Bridge, undated
Map-folder 59	4, Coal Dump, undated
Map-folder 59	5, Details and Assembly of Car Stop Lever Control Mechanism, undated
Map-folder 59	6, Gunboat Loading Chute and Battery Check in with Underground Haulage, undated
Map-folder 59	7, Rotary Car Dumper Steel Supports for Underground Haulage, undated
Map-folder 59	8, Track Arrangement and Dumping Rails for Discharging Gunboat, undated
Map-folder 59	9, Track Arrangement and Dumping Rails for Discharging Gunboat, undated
Map-folder 59	10, Details and Assembly of Car Stop Levers Control Mechanism, undated
Map-folder 59	11, Plan Profile Showing Loading Position of Gunboat and Steel Supports, undated
Map-folder 59	12, Gunboat Loading Chute and details for Underground Haulage, undated
Map-folder 59	13, Foundation and Plan Location of Gunboat Check Steel Framing, undated
Map-folder 59	14, Plan and Foundation for Rotary Car Dumper for Underground Haulage, undated
Map-folder 59	15, Track Arrangement at Eckley Rock Hole, undated
Map-folder 59	16, Detail of Wrought Iron Cross Tie. Mark #10, undated
Map-folder 59	17, General Drawing of Mine Car with Roller Bearing Wheels, undated
Map-folder 59	18, General Arrangement and Details of Man Car, undated
Map-folder 59	19, General Drawing and Detail for Coxe Car, undated
Map-folder 59	20, General Arrangement for 1918 Style Coxe Mine Car, undated

Map-folder 59	21, Arrangement and Details of Side Dump Car, undated
Map-folder 59	22, Detail of Side Dump Car, undated
Map-folder 59	23, General Arrangement of Drifton Gunboat, undated
Map-folder 59	24, Details for Drifton Gunboat, undated
Map-folder 59	25, Mine Car Dump, undated
Map-folder 59	26, Deringer Gunboat, undated
Map-folder 59	27, Drifton Colliery Rotary Dumper Underground Haulage, undated
Map-folder 59	28, Dump Chute, House and Car Haul, undated
Map-folder 59	29, General Arrangement & Details of Coxe Car Dump Berkley No , 2, undated
Map-folder 59	30 Plan & General Arrangement of Car Dump and Car Stop of Berkley No. 2, undated
Map-folder 60	31, Castings for standard mine car, undated
Map-folder 60	32, Standard Mine Car Detail of Steel Sheets, undated
Map-folder 60	33, 18 C.I. Car Wheel for Coxe Cars, undated
Map-folder 60	34, No Identification, undated
Map-folder 60	35, Assembly of Shoe and Block on Drawing, undated
Map-folder 60	36, Timber for Standard Mine Car, undated
Map-folder 60	37, Forgings for Standard Mine Car, undated
Map-folder 60	38, Draft Gear for Standard Mine Car, undated
Map-folder 60	39, Details for Mine Car Buffer and Release Mechanism, undated
Map-folder 60	40, Cast Iron R. and L. on Drawing, undated
Map-folder 60	41, Details for Coxe car with Standard Underground Tight and Loose Wheels, undated
Map-folder 60	42, General Arrangement of 1930 Style Coxe Mine Car, undated
Map-folder 60	43, Standard Coxe Mine Buggy, undated

Map-folder 60	44, Details for 1918 Style Coxe Mine Car, undated
Map-folder 60	45, Details of Cage for Breaker, undated
Map-folder 60	46, Details of Forgings for 1930 Coxe Mine Car, undated
Map-folder 60	47, Details for Dump Hooks, undated
Map-folder 60	48, Details for Mine Car Dump, undated
Map-folder 60	49, Details of Dump at Primrose Colliery, L.V.R.R, Co., undated
Map-folder 60	49, Dump Top Casting Drifton #2, undated
Map-folder 60	50, Details of Mine Car Dump, undated
Map-folder 60	51, D.L. & W. R. R. Details of Dump for Bliss Mine, undated
Map-folder 60	52, D.L. & W. R. R. Details of Dump for Bliss Mine, undated
Map-folder 60	52, Mine Car Dump Primrose L. V. Coal Company, undated
Map-folder 60	53, Oneida #1 Slope Gravity Mine Car Dump, undated
Map-folder 60	54, North & West Dump Arrangements for Double Track D , Slope, undated
Map-folder 60	55 (MISSING), Plan & Elevation of Mine Car Dump, undated
Map-folder 60	56, Plate VI Dump 4 and Stop-Black Eckley #10, undated
Map-folder 60	57, Plate VI Dump 4 and Stop-Black Eckley #10, undated
Map-folder 60	58, Details for Mine Car Dump Centralia Colliery, undated
Map-folder 60	59, Details Mine Car Dump Centralia Colliery L. V. C. Co, undated
Map-folder 60	59, Arrangement of Cage for #3 Oneida, undated
Map-folder 61	60, Arrangement of Dump at Woodward Breaker, undated
Map-folder 61	60, Details of Dump at Woodward Breaker, undated
Map-folder 61	60, Plan and Details of Drawer Dump, undated
Map-folder 61	60, D. L. St W. R. R. Details of Dump for Bliss Mine, undated
Map-folder 61	61, Dump and Dump Chute Drifton #2, undated

Map-folder 61	62, Arrangement of #2 Oneida Gunboat Dump, undated
Map-folder 61	63, Mine Car Dump, undated
Map-folder 61	64, Details for Mine Car Dump Horizontal Shaft Colliery, undated
Map-folder 61	64, Details for Mine Car Dump Centralia Colliery L. V. Coal Company, undated
Map-folder 61	65, Mine Car Dump Bliss D. L. and W. R. Company, undated
Map-folder 61	65, Details for Mine Car Dump, Bliss Car D. L. & W. R, Company, undated
Map-folder 61	66, Packer #4 Colliery Arrangement for Mine Car Dump L.V.C, Company, undated
Map-folder 61	67, Arrangement for Mine Car Dump Dodge Mines, undated
Map-folder 61	68, Arrangement for Mine Car Dump West End Coal Company, undated
Map-folder 61	68, Details for Mine Car Dump West End Coal Company, undated
Map-folder 61	69, Old Style Coxe Mine Cars, undated
Map-folder 61	70, Manganese Steel Mine Car Wheel, undated
Map-folder 61	71, Details of Standard Mine Car, undated
Map-folder 61	72, Cast Iron Mine Car Wheel, undated
Map-folder 61	73, No Identification, undated
Map-folder 61	74, Details for Mine Car Pedestal and Brass, undated
Map-folder 61	75, Arrangement of Stand Mine Car Timber, undated
Map-folder 61	76, Repairs for Standard Mine Cars, undated
Map-folder 61	77, Timbers for Mine Cars Old #2 Eckley, undated
Map-folder 61	78, Details for Mine Car Buffer and Release Mechanism, undated
	79, Number not used
Map-folder 62	80, Arrangement of Cage for Breaker, undated
Map-folder 62	81, Details for Standard Wrought Iron Cage, undated
Map-folder 62	81, Details for Cage Pit Breaker, undated

Map-folder 62	81, Details for Standard Wrought Iron Cage, undated
Map-folder 62	82, Details for Stop Block at Barney Hoist, undated
Map-folder 62	82, Details for Stop Block at Oneida #1, undated
Map-folder 62	83, Standard Stop Block C. C. C. Company Mine Car, undated
Map-folder 62	84, Details for Tomhicken Cage, undated
Map-folder 62	85, Details of Cage at Oneida #3 and #1, undated
Map-folder 62	86, Details of Cage for Pardee Bros' & Company, undated
Map-folder 62	87, Transfer Cage at Oneida #3 Shaft, undated
Map-folder 62	88, Buck Mountain Stop Block & Balance Sheaves Head of Plain, undated
Map-folder 62	89, Mount Carmel Oak Hill Colliery, undated
Map-folder 62	90, Detail of Cage for Lattimer Mines, undated
Map-folder 62	91, Arrangement of Transfer Cage for #3 Oneida, undated
Map-folder 62	92, Cover for Oneida Shaft #3, undated
Map-folder 62	93, Detail for Arrangement Surface of Shaft #2, undated
Map-folder 62	94, Transfer cage for #2 Deringer Shaft, undated
Map-folder 62	95, Transfer cage for #2 Deringer Shaft, undated
Map-folder 62	96, Details for Arrangement Bottom of Shaft #2, undated
Map-folder 62	96, Details for Arrangement Surface of Shaft #2, undated
Map-folder 62	97, Transfer Cage for Shaft at #1 Oneida, undated
Map-folder 62	98, Standard Wrought Iron Cage, undated
Map-folder 62	99, Position of Stop-Block and Tracks, undated
Map-folder 62	99, Transfer Cage for Shaft at #1 Oneida, undated
Map-folder 63	100, Position of Stop-Block and Tracks for Oneida #1 Slope Dump, undated
Map-folder 63	101, Details of W.G. Cage for Tomhicken Shaft, undated

Map-folder 63	102, Mine Car Buffer & Release Mechanism, undated
Map-folder 63	103, Details of Cage Buffer for Deringer #1, undated
Map-folder 63	104, Mine Car Buffer and Release Mechanism, undated
Map-folder 63	104, Buffer for Barney Head of Buck Mountain Plan, undated
Map-folder 63	105, Arrangement for Stand Wrought Iron Cage, undated
Map-folder 63	106, Arrangement of Cage Pit Breaker Beaver Meadow, undated
Map-folder 63	107, Details for Barney Buffer at Oneida #6 Slope, undated
Map-folder 63	108, Stop-Block Roane Stock Yard, undated
Map-folder 63	109, Details for Stop-Block for Packer #2-3-4- Colliery, undated
Map-folder 63	109, Stop-Block for Hazleton Shaft, undated
Map-folder 63	110, Stop-Block and Chute for Stock Yard, undated
Map-folder 63	111, Bands for Barney Pusher #2 Breaker, Drifton, undated
Map-folder 63	112, Details for Gunboat, Drifton #2, undated
Map-folder 63	113, Arrangement of Gunboat at Drifton #2, undated
Map-folder 63	114, Barney Pit #2 Lift, undated
Map-folder 63	115, Details of Barney C-413, undated
Map-folder 63	116, #2 Drifton Barney Plans and Elevation, undated
Map-folder 63	117, Adjustable Gauge Barney, Gauge 4 ft. & 3 ft., 4 inches, undated
Map-folder 63	118, Details for Working Barney Bridge, undated
Map-folder 63	118, Oneida Barney Pit & Bridge Details, undated
Map-folder 63	118, Barney Plan with Pit and Bridge, undated
Map-folder 63	118, Details for Bridge & Barney Scale 1 1/2" and 3" to foot, undated
Map-folder 63	118, Arrangement of Barney Pit & Bridge, undated
Map-folder 63	118, Details for Bridge & Barney, undated

Map-folder 63	118, Drifton #2 Barney Pit and Bridge, undated
Map-folder 63	119, Drifton #2 Details for Barney, undated
Map-folder 64	120, Main Hoisting Slope Barney Pit, undated
Map-folder 64	120, Beaver Meadow Barney Pit for Main Hoisting Slope 3 Cars, undated
Map-folder 64	121, Details for adjustment Barney for Beaver Meadow #2 Gauge, undated
Map-folder 64	122, Details of Barney for Buck Mountain, undated
Map-folder 64	123, Arrangement of Oneida Breaker Gunboat, undated
Map-folder 64	123, Details for Oneida Breaker Gunboat, undated
Map-folder 64	124, Beaver Meadow #2 Barney Pit, #2 Lift Details, undated
Map-folder 64	125, Barney Hoist Surface #6 Slope Oneida, Oneida, Pennsylvania, undated
Map-folder 64	126, Details for Gunboat for Deringer #1, undated
Map-folder 64	127, Details for Mount Carmel Bridge and Barney, undated
Map-folder 64	128, Timber for Buck Mountain Barney, undated
Map-folder 64	129, Details for Barney at Drifton #2, undated
Map-folder 64	130, Barney Goat Scalp, undated
Map-folder 64	131, Beaver Meadow Main Slope adjusting Guard Rail at Bottom, undated
Map-folder 64	132, Barney slope No. 4, undated
Map-folder 64	133, Oneida Barney Dump, undated
Map-folder 64	133, Dump for Barney Hoist Oneida Breaker, undated
Map-folder 64	134, Gunboat Hooks, undated
Map-folder 64	135, Drifton No. 2 Barney Dump, undated
Map-folder 64	136, Barney Hoist Bottom No. 6 Slope, undated
Map-folder 64	137, Detail for Bridle and Aprons, undated
Map-folder 64	138, Gunboat Bridle Oneida No. 2, undated

Map-folder 64	139, Bridge for # 6 Eckley, undated
Map-folder 65	140, Car for Local Coal Supply, Oneida, undated
Map-folder 65	141, Mule Car for # 3 Oneida, undated
Map-folder 65	142, Gunboat, Silver Brook Colliery, undated
Map-folder 65	143, Details for Barney Dump at Oneida, undated
Map-folder 65	144, Barney Hoist Bottom No. 4, undated
Map-folder 65	144, Detail for Barney Pit No. 4 Slope Oneida, undated
Map-folder 65	145, Plan & Elevation of Slope No. 4 Gowen, undated
Map-folder 65	145, Barney Pit Slope No. 4 Gowen, undated
Map-folder 65	146, Barney Hoist Bottom No. 4 Slope, undated
Map-folder 65	146, Details for Barney Pit No. 4 Slope, undated
Map-folder 65	147, Barney Hoist Surface No. 6 Slope, undated
Map-folder 65	147, Details for Barney Pit, Plane & Bridge for Oneida, undated
Map-folder 65	148, Water Tank, undated
Map-folder 65	149, Cast Frame for Side Latch, undated
Map-folder 65	149, Springs for Side Latch, undated
Map-folder 65	150, Details for Oneida Breaker Gunboat, undated
Map-folder 65	151, Barney Pit for Deringer # 5 Inside Slope, undated
Map-folder 65	151, Barney Hoist Top for Deringer # 5 Line Inside Slope, undated
Map-folder 65	151, Details for Barney Pit for Deringer # 5 Line Inside Slope, undated
Map-folder 65	152, Details for Gunboat Gauge for Deringer No. 1, undated
Map-folder 65	153, Details for Barney Pit No. 2 Breaker. Drifton, Pennsylvania, undated
Map-folder 65	154, Self-Acting Bridge and Barney for Lentz Lillie Company, undated
Map-folder 65	155, Mechanism, for Operating Bridge Oak Hill Colliery, undated

Map-folder 65	155, Detail Sheet for Bridge and Pit, Oak Hill Colliery, undated
Map-folder 65	155, Mount Carmel Bridge and Barney Arrangement, undated
Map-folder 65	156, Silver Brook Arrangement Self-Acting Bridge, undated
Map-folder 65	156, Arrangement of Barney Pit for Silver Brook, undated
Map-folder 65	157, Silver Brook Arrangement Self-Acting Bridge, undated
Map-folder 65	158, Beaver Meadows Main Hoisting Slope, Top 3 Tracks, undated
Map-folder 65	159, Beaver Meadows Main Hoisting Slope, Top 3 Tracks, undated
Map-folder 65	160, Barney for Silver Bnook, undated
Map-folder 65	161, Mount Carmel Full Size Detail of front Pusher, undated
Map-folder 65	161, Mount Carmel Barney, undated
Map-folder 65	162, Oneida Barney Bridge, undated
Map-folder 67	163, General Plan and Detail for Dump Car, undated
Map-folder 67	164, Deringer and Oneida Dump Car- Capacity 101 cubic feet, undated
Map-folder 67	165, General Arrangement of Dump Car for Beaver Meadows, undated
Map-folder 67	166, Dump Car for Culm Banks and Ash Pits, undated
Map-folder 67	167, Timber for Dump Cars, undated
Map-folder 67	168, Details for Standard Mine Buggies, undated
Map-folder 65	169, Details for Brake on Dump Cars, undated
Map-folder 66	Group 8 duplicates of some drawings

Subseries 6.10: Drawings, Mine Ventilation Fans (Group 9)

Map-folder 67	1, 7'-0" x 3'-6" Double Inlet Exhaust Fan Near #9 Slope, undated
Map-folder 67	2, Details for Fan at No. 2 Drifton Boiler House, undated
Map-folder 67	3, Details for Pelzer Fan for Oneida Mine in Drawer 16, undated

Map-folder 67	4, Walker & Brothers Patent Anti-Vibration Shutter in Drawer 16, undated
Map-folder 67	5, 20 ft. Mine Fan, undated
Map-folder 67	6, Cross Creek Coal Co. Dayton, Pennsylvania, undated
Map-folder 67	7, 15'-9" Fan for No. 3 Oneida in Drawer 16, undated
Map-folder 67	8, Details of Fan Drifton #1 & #2 in Drawer 16, undated
Map-folder 67	9, Gowers No. 1 New Fan in Drawer 16, undated
Map-folder 67	10, Detail of 20 ft Maine Fan for Deringer in Drawer 16, undated
Map-folder 67	11, Detail of 20 ft Maine Fan for Deringer in Drawer 16, undated
Map-folder 67	12, Arrangement for Fan Buck - Mountain, undated
Map-folder 67	13, Elevation for Fan House, Oneida #3, undated
Map-folder 67	14, Details for belger fan for Oneida No. 1, undated
Map-folder 67	15, Outline and foundation plan of 8 ft x 2 ft 6" Exhaust Fan, undated
Map-folder 67	16, Buck Mountain and Mammoth Vein Fans, Motor Belt Drives, undated
Map-folder 67	17, Foundation Plan for 5'-0 x 18" Jeffrey Mine Fan at Slope #10, undated
Map-folder 67	18, Layout of Blowing Fan and House for #10 Slope Tomhicken, undated
Map-folder 67	19, Foundation Plan and Layout 8'-0 x 3' 6" Jeffrey Fan, undated
Map-folder 67	20, Foundation Plan and Layout 8'-0" x 3'-0 '5 Exhaust Fan, undated
Map-folder 67	21, Motor House for Beaver Meadow Slope No. 1 Mine Fan, undated
Map-folder 67	22, 7'-0"x3'-6" Exhaust Fan Foundation Plan, undated
Map-folder 67	23, Details for Fan Engine Size 12" x 30" Stroke, undated
Map-folder 67	24, Detail for Gowen No. 3 Fan Engine, undated
Map-folder 67	25, Gowen No. 3 Fan Engine, undated
Map-folder 67	26, 16 ft. Fan with 14" x 18" Engine, undated
Map-folder 67	27, Buildings for 20 ft. Mine Fan No. 2 Drifton, undated

Map-folder 67	28, Details for Fan at No. 2 Drifton Boiler House, undated
Map-folder 67	29, Details for Fan at No. 2 Drifton Boiler House, undated
Map-folder 67	31, Outline of Fan for Tomhicken Drifton, undated
Map-folder 67	32, Layout of Blowing fan and House for #10 Slope [Tomhicken?], undated
	33 (MISSING), Layout of Blowing fan and House for #10 Slope [Tomhicken?], undated
	34 (MISSING), Overload Hand reset Relay, undated
	35 (MISSING), Phase Failure Device, undated
	36 (MISSING), Ring Oiling Pedestal bar S.C. Geared Elec. Hoist, undated
	37 (MISSING), Conn, for Secondary Resistance Self Starter with P.F. relay, undated
	38 (MISSING), Fan Foundation Plan for Lehigh Valley Coal Co, undated
	39 (MISSING), Foundation Plan Straits Flo Fans with Roller Bearings, undated
Map-folder 68	Unidentified end elevation, undated
Map-folder 68	Exhaust Double Inlet Multivane Fan, 1916
Map-folder 68	Crank pin brasses for 12" x 30" Chandler and Taylor fan at Deringer Colliery, 1906
Map-folder 68	Motor House for Beaver Meadow Slope No. 7 Mine, 1930
Map-folder 68	Foundation of 15 foot Peltzer-Ventilator and timbers for tunnel, undated Notes: Coxe Brothers classification number: DNV 1-6-8

Subseries 6.11: Drawings, Sheaves, Pulleys, Rollers (Group 10)

Map-folder 69	1, Position of Rope Sheaves under Track, undated
Map-folder 69	2, Details for Sheave Balance Sheave, undated
Map-folder 69	3, Slope, rotter, sheaves, pulleys and C for Different Places, undated
Map-folder 69	4, Slope Rollers Sheaves, undated
Map-folder 69	5, Hub Scale 4" = 1 foot, undated

Map-folder 69	6, 24 5/8" Rope Sheave Cast Iron, undated
Map-folder 69	7, Spindle Vertical Slope Rollers, undated
Map-folder 69	8, Sheave Mechanism for Oneida Breaker Hoisting Plane, undated
Map-folder 69	9, Arrangement Sheaves for Rope Guide Oneida No. 1, undated
Map-folder 69	10, Position of Sheaves for Transfer Cage Hoist at 1" Oneida, undated
Map-folder 69	11-14, Arrangement of Sheave for Oneida No. 3, undated
Map-folder 69	15, Details of Sheave for Rope Transmission, undated
Map-folder 70	7' grip Sheave Malby Colliery, 1901, 1906
Map-folder 70	Spring Mountain Colliery map showing location of refuse and silt banks, 1930 Notes: See also mining maps in Subseries 7.21, for related maps, Misc-55 and Misc-56.
Map-folder 70	Highland No. 5 Colliery, 1948
Map-folder 70	Jeddo No. 7 Slate banks and silt deposit, undated
Map-folder 70	Map showing location of salt, sulphur and pyrite deposits in the United States, 1911
Map-folder 70	Hazleton Shaft Colliery map showing refuse and silt banks, 1930 Notes: See also Subseries 6.11 for Spring Mountain Colliery map showing location of refuse and silt banks, 1930. See also Subseries 7.21 for related maps, Misc-55 and Misc-56.

Subseries 6.12: Drawings, Mine Site Structures, Coxe Iron Company, Clybourn Dock and Dorr Thickner (Group 11)

Map-folder 71	1, Outside Track Tipple and Dump No.10, undated
Map-folder 71	2, Gunboat Dump, undated
Map-folder 71	3, Mine Car Dump Trestle Oneida #4 Slope, undated
Map-folder 71	4, Mine Car Dump Trestle Oneida #4 Slope, undated
Map-folder 71	5, Phillips Crossover Dump and 10'x 54' Conveyor, undated
Map-folder 71	6, Highway Bridge over Black Creek, undated

Map-folder 71	7 , 12-0" Braker Refuse Chute and Loading House, undated
Map-folder 71	8, Dorr Thickener for Reclaiming Silt, undated
Map-folder 71	9, Foundation and Building for Dorr Thickener, undated
Map-folder 71	10, Foundation and Building for Dorr Thickener, undated
Map-folder 71	11, Superheater Riping Arrangement, undated
Map-folder 71	12, Office Warehouse Oil House & Cement House, undated
Map-folder 71	13, Electric Substation, undated
Map-folder 71	14, Gunboat Slope Engine House Barney Breaker Engine, undated
Map-folder 71	15, Wash House to Accommodate 48 Men, undated
Map-folder 71	16, Wash House to Accommodate 48 Men, undated
Map-folder 71	17, 20' x 20' x 11" -0 Brick Engine House, Slope Elevation & Sheaves Rope, undated
	18 (MISSING), 20' x 20' x 11" -0 Brick Engine House, Slope Elevation & Sheaves Rope, undated
Map-folder 71	19, Additional Steel Supports for Boiler House Roof, undated
Map-folder 71	20, Alteration Oneida No. 3 Shaft, undated
Map-folder 71	21, Head Frame and Dump Chute, undated
Map-folder 71	22, Head Frame and Dump Chute, undated
Map-folder 71	23, Repairs to Head Frame, undated
Map-folder 71	24, 9" Pitch Keyston Rivetless Chain, undated
Map-folder 71	25, Silt Conveyor Drifton #2 Colliery, undated
Map-folder 71	26, Rock Conveyer for Drifton #2 Braker, undated
Map-folder 71	27, A&B Take-Ups, undated
Map-folder 71	28, Details of Main Conveyor Deringer, undated
Map-folder 71	29, Section of Main Conveyor Through Packer No. 4 Colliery, undated

Map-folder 71	30, 8 x 18 Flight with Wearing Shoes for 223 Attachment, undated
Map-folder 72	31, Details for 5"x 5" Sturtevant Fan Engine L.V. #1490, undated
Map-folder 72	32, Condemned Coal Hopper Supply Track Drifton #2, undated
Map-folder 72	33, Plan View for Shaft and Dump Chute, undated
Map-folder 72	34, End Elevation of Shaft Frame, undated
Map-folder 72	35, Settling Tank, undated
Map-folder 72	36, Local Coal Pocket for Beaver Meadow, undated
Map-folder 72	37, Out House Used in Connection with Main House, undated
Map-folder 72	38, Details of Steam Shovel C.B. and Co. Inc., undated
Map-folder 72	39, Head Frame for Sinking Slope No. 5, undated
Map-folder 72	40, Derrick and Windlass for Artesian Well Bearing, undated
Map-folder 72	41, Tank and Frame for Beaver Meadow, undated
Map-folder 72	42, Tanks for Delaware, Schuylkill and Susquehanna General Water Supply, undated
Map-folder 72	43, Gate for Dr. Wentz, undated
Map-folder 72	44, Miscellaneous Details for Different Places, undated
Map-folder 72	45, Bridge for Pipe Line Stripping at Eckley, Pennsylvania, undated
Map-folder 72	46, Laboratory Screen, undated
Map-folder 72	47, Details of Turn Table, undated
Map-folder 72	48, Deringer Saw Mill Head Block Details, undated
Map-folder 72	49, Miscellaneous Details for Different Places, undated
Map-folder 72	50, Different Details for Different Jobs, undated
Map-folder 72	51, Denomination Machine for Main Office, undated
Map-folder 72	52, Miscellaneous Details, undated

Map-folder 72	53, Gowen Flume, undated
Map-folder 72	54, Arrangement of Shaft Timber for Oneida No. 1, undated
Map-folder 72	55, Details for Horse Power, undated
Map-folder 72	56, Miscellaneous Details for Sawmill, undated
Map-folder 72	57, Tank and Foundation for Buck Mountain, undated
Map-folder 72	58, Miscellaneous Details for Different Places, undated
Map-folder 72	59. Well Borer Apparatus Scale, undated
Map-folder 72	60, Granger Meat Market, undated
Map-folder 73	61, Hinges for Mew Stone Refrigerator, undated
Map-folder 73	62, Outside Parts of Grate for Steam Shovel Boiler, undated
Map-folder 73	63, Cast Iron Supports for Main Posts, undated
Map-folder 73	64, Track for Slaughter House, undated
Map-folder 73	65, Eight Hand Sprock Wheel Clutch, undated
Map-folder 73	66, Platform for Pine-Knot Ridge, undated
Map-folder 73	67, Steps at Pulpit Rock, undated
Map-folder 73	68, No. 3 1/32 Fractional, undated
Map-folder 73	69, Hospital Fence Head Blocks, undated
Map-folder 73	70, Steps at Pulpit Rock, undated
Map-folder 73	71, Deringer Creek Caibbing East of Bridge, undated
Map-folder 73	72, Ground-Plan of Shed and Bulk Head, undated
Map-folder 73	73, The A.E. Brown Patent Shed Tramway Hoisting, undated
Map-folder 73	74, Adjustable Loading Truck, undated
Map-folder 73	75, Plan of Engine House, undated
Map-folder 73	76, Clybourn Ave. Dock, undated

Map-folder 73	77, Brown Hoisting and Conveying Machine Co., undated
Map-folder 73	78, Bridgeport Dock, undated
Map-folder 73	79, No Identification, undated
Map-folder 73	80, Take up for Bridgeport Chicago, undated
Map-folder 73	81, Position and Details of Coal Sheave, and Location for the Breaker, Pennsylvania Railway Tramways, undated
Map-folder 73	82, No Identification, undated
Map-folder 73	83, Clybourn Ave. Dock, undated
Map-folder 73	84, Locomotive, Coaling for Northern Pacific Rail Road, undated
Map-folder 73	85, Clybourn Ave.Dock, undated
Map-folder 73	86, Telescope Trunk for Dock Loading, undated
Map-folder 73	87, Clybourn Ave, Dock, undated
Map-folder 73	88, No Identification, undated
Map-folder 73	89, Left hand Sprocket Wheel Clutch, undated
Map-folder 73	90, Clybourn Ave. Dock, undated
Map-folder 74	91, Clybourn Ave. Dock, undated
Map-folder 74	92, No Identification, undated
Map-folder 74	93, Lift Catch for Roane Stock Yard Dump Chute, undated
Map-folder 74	94, Plate V Eckley No.10., undated
Map-folder 74	95, The Brown Hoisting and Conveying Machine Co., undated
Map-folder 74	96. No Identification, undated
Map-folder 74	97. Roane Transfer Truck, undated
Map-folder 74	98. Storage Car for Coxe Bros, undated
Map-folder 74	99, Proposed Plant of the Browns Patent Bridge Tramway, undated

Map-folder 74	100, Proposed Application of the Browns Patent Bridge Tramway, undated
Map-folder 74	101, Automatic Hoisting and Conveying Appliances, undated
Map-folder 74	102, Top bracing and Support for Screen, undated
Map-folder 74	103, Jack for Back [Pur-detail ?], undated
Map-folder 74	104, General View of Back Pier-showing proposed Arrangement, undated
Map-folder 74	105, Pit and track elevations, undated
Map-folder 74	106, No Identification, undated
Map-folder 74	107, Plan of Chutes on Storages Car for Roan Stock yard, undated
Map-folder 74	108, Buffalo Docks, undated
Map-folder 74	109, Route for Tranter Car Contract #298, undated
Map-folder 74	110, Diagram of Sheaves, Axles and Boxes, undated
Map-folder 74	111, Beaver Meadow Slate Conveyor, undated
Map-folder 74	112, Details of Connection at Head of Post, undated
Map-folder 74	113, Details of Sharing and Connections, undated
Map-folder 74	114, Slope No.10 Eckley, undated
Map-folder 74	115, General Arrangement of Shop Yard Crane, undated
Map-folder 74	116, Unidentified, undated
Map-folder 74	117, Application of the Brown Patent Shed Tramway Hoisting and Con. Apparatus, undated
Map-folder 74	118, Telescopic Trunk for Dock Loading, undated
Map-folder 74	119, Capstan with Automatic Lock, undated
Map-folder 75	120, Water Tanks, undated
Map-folder 75	121, Details of Incline Conveyor, undated
Map-folder 75	122, Proposed Telescope Loading Chute Details, undated

Map-folder 75	123, Details of Equalizing Gear, undated
Map-folder 75	124, Tower for Gable Hoist Conveyor for Beaver Meadow stripping #2, undated
Map-folder 75	125, Storage and Pickup Conveyor, undated
Map-folder 75	126, Longitudinal Section of Storage Dock, undated
Map-folder 75	127, Proposed Telecope Loading Chute for Perth Amboy Dock, undated
Map-folder 75	128, End Elevation of Storage Dock at Perth Amboy, undated
Map-folder 75	129, End I Elevation of Dock at Buffalo N.Y., undated
Map-folder 75	130, Monobar Sprocket Wheel, undated
Map-folder 75	131, Details of Incline Conveyor # Deringer Boiler Plant, undated
Map-folder 75	132, Equalizing Gear for Elevator, undated
Map-folder 75	133, Monobar Removable Tooth for 1 1/2" Monobar Chain, undated
Map-folder 75	134, Monobar Removable Tooth for 1 1/2" Monobar Chain, undated
Map-folder 75	135, Arrangement of Drag Shafting, undated
Map-folder 75	136, Shafts for Conveyor at Eckley No.10 Boiler House, undated
Map-folder 75	137, Ash pit Conveyor at Eckley No.10 Boiler House, undated
Map-folder 75	138, Bulk head for Bridgeport Dock, undated
Map-folder 75	139, Details for Roan Storage Plant, undated
Map-folder 75	140, Details for Hoisting General, undated
Map-folder 75	141, Details of Conveyor and Elevator, undated
Map-folder 75	142, Equalizing Gear, undated
Map-folder 75	143, Equalizing Gear, undated
Map-folder 75	144, Details of Elevator for Oneida Breaker, undated
Map-folder 75	145, Diagram of the Roan Stocking Machine, undated
Map-folder 75	146, Culm Conveyor for Oneida, undated

Map-folder 75	147, Details of Different Jobs, undated
Map-folder 75	148, Details Chutes for Roan Stockingyard, undated
Map-folder 75	149, Frame for Oneida Breaker Elevator, undated
Map-folder 76	150, Different Details for Roan Stocking Yard, undated
Map-folder 76	151, Boiler Coal Conveyor for Beaver Meadow, undated
Map-folder 76	152, Hooper Discharge Chute for Elevator, undated
Map-folder 76	153, Coal Conveyor to Boiler House, undated
Map-folder 76	154, Temporary Arrangements for lowering Air Motor Slope, undated
Map-folder 76	155, Plan and Elevation, Elevator at Fern Glen Store, undated
Map-folder 76	156, Saftey Coal Elevator #2 Drifton Elevator, undated
Map-folder 76	157, Bulk-Head Milwaukee Coal Yard, undated
Map-folder 76	158, Bulk Head Roof at Milwaukee Dock, undated
Map-folder 76	159, Plan of Drag at Milwaukee Docks, undated
Map-folder 76	160, Location of Engines and Sheaves, undated
Map-folder 76	161, Elevation Root for Milwaukee Docks, undated
Map-folder 76	161, Elevator for Milwaukee Docks, undated
Map-folder 76	162, Rebreaking and Screening Arrangement, undated
Map-folder 76	163, Plan of Streets Milwaukee, Wisconsin, undated
Map-folder 76	164, Plan of Engines Milwaukee, undated
Map-folder 76	165, Arrangement of Machinery Milwaukee Docks, undated
Map-folder 76	166, Milwaukee Dock Pocket, undated
Map-folder 76	167, Take-Up-Babbitt Journals, undated
Map-folder 76	168, Saw-Dust Conveyor Oneida Saw Mill, undated
Map-folder 77	169, Howe Railroad Track Plan Pile foundation, undated

Map-folder 77	170, Hatch-way for Goal Shed Bridgeport, undated
Map-folder 77	171, Conveyor at Bridgeport Dock, undated
Map-folder 77	172, Clybourn Ave # Dock Scale 4 ft to inch, undated
Map-folder 77	173, Clybourn Ave # Dock Scale 4 ft to inch, undated
Map-folder 77	174, General Plan Clybourn Ave. Dock, undated
Map-folder 77	175, Details for Clyburn Avenue Dock, undated
Map-folder 77	176, Details of Stocking Machine at Roan Yard, undated
Map-folder 77	177, Details for Roan Storage Plant, undated
Map-folder 77	178, Details for Cable Hoist Tower, undated
Map-folder 77	179, Goal Station at Roan yard, undated
Map-folder 77	180, Details for Carriage Roan Storage Plant, undated
Map-folder 77	181, Proposed Telegraph for Egg Coal at Chicago Docks, undated
Map-folder 77	182, Buffalo Docks, undated
Map-folder 77	183, Plan for loading Piers at Buffalo, New York, undated
Map-folder 77	184, Details for Roan Coaling Station, undated
Map-folder 77	185, Dock Ann Street, undated
Map-folder 77	186, Plan for Bridgeport Dock, undated
Map-folder 77	187, Details for Conveyor Boiler Plant, undated
Map-folder 77	188, Plan View of Conveyor Boiler Plant, undated
Map-folder 77	189, Proposed Shaking Screens for Perth Amboy Docks, undated
Map-folder 77	190, Clybourn Ave Dock, undated
Map-folder 77	191, Plan of Tramway Truss with Brace Connection, undated
Map-folder 77	192, Building for #U Slope Hoist, undated
Map-folder 77	193, Electric Substation, undated

Map-folder 77	194, Engine House for Eckley Breaker Engine, undated
Map-folder 77	195, Dump House Eckley No. 2, undated
Map-folder 77	196, Unidentified, undated
Map-folder 77	197, Details for Wash House Eckley No. 2, undated
Map-folder 77	198, Details for Wash House Eckley No. 2, undated
Map-folder 77	199, General Arrangement of Motor Drive for Run and Mine Conveyor, undated
Map-folder 77	200, Location and Excavation Plan of New Retail Coal Truck Scales, undated
Map-folder 77	201, Arrangement of Hot Water Heater Deringer Wash house., undated
Map-folder 77	202, C.I. Trough for Ash Conveyors, Beaver Meadow, undated
Map-folder 77	203, Locomotive House for Glen. Drifton, undated
Map-folder 77	204, Removable Tooth for Monobar Chain, undated
Map-folder 77	205, Proposed 10 Mule Barn Beaver Meadow, undated
Map-folder 77	206, Arrangement of Hot Water General and Receivers, undated
Map-folder 77	207, Foundation Plan for 15000 Gallon Locomotive Water Tank, undated
Map-folder 77	208, Foundation Plan for 20000 Gallon Locomotive Water Tank, undated
Map-folder 77	209, Sections of Slush trough Beaver Meadow, undated
Map-folder 77	210, General Arrangement of 10 H.P. Motor Drive, undated
Map-folder 77	211, Adjustable Tooth for Sprocket of Jeffrey Wire, undated
Map-folder 77	212, 7 3/4" flight for Jeffrey Gable Conveyor, undated
Map-folder 77	213, Trough for Eckley Boiler Ash Conveyor, undated
Map-folder 77	214, Eckley Slope #10 Hoist House, undated
Map-folder 77	215, Hoist House for Buck Mountain No. 14 Slope, undated
Map-folder 77	216, Boiler fuel conveyor and Slush Trough-Beaver Meadow, undated
Map-folder 77	217, Plan and Profile for Slush Trough-Beaver Meadow, undated

Map-folder 77	218, Plan of New Slush Trough and ft. Arrangement of Boiler fuel Conveyor, undated
Map-folder 77	219, Wash House with New Addition, No I Slope Drifton, undated
Map-folder 78	220, Dump house over Eckley Hole for Eckley Coal-Drifton Colliery, undated
Map-folder 78	221, Locomotive and Sand House Drifton No.II, undated
Map-folder 78	222, Dump House and Cribbing-Drifton No. 1 Transfer Dump, undated
Map-folder 78	223, Foundation Plan and House for 14" x 12" Sullivan Elec. Driven Air Compressor, undated
Map-folder 78	224, Drifton No.1-350 H.P. Electric Hoist House, undated
Map-folder 78	225, Car Pusher for Drifton Transfer Dump, undated
Map-folder 78	226, Concrete Settling Tank Conveyor and Hopper Drifton, undated
Map-folder 78	227, Drifton Settling tank Plate N0. 2, undated
Map-folder 78	228, Drifton Settling Tank Plate No. 3, undated
Map-folder 78	229, Drifton Settling Tank Plate No.4, undated
Map-folder 78	230, General arrangment of Ash Conveyor and Hopper, undated
Map-folder 78	231, General Plan and Sections of Ash Conveyor and Engine House, undated
Map-folder 78	232, General Plan and Sections of Horizontal Ash Conveyor, undated
Map-folder 78	233, Details of Horizontal and Incline Ash Conveyors for Boiler House, undated
Map-folder 78	234, General arrangement and of Ash Hoppers and Supports, undated
Map-folder 78	235, Stripping Coal Crashing and Cleaning Plant Beaver M. Colliery, undated
Map-folder 78	236, Plan of Drive for Beaver Meadow Boiler Fud Conveyor, undated
Map-folder 78	237, Last Wall of Beaver Meadow Boiler House Showing Proposed Location of Window, undated
Map-folder 78	238, Last Wall of Beaver Meadow Boiler House Showing Proposed Location of Window, undated
Map-folder 78	239, Arrangement of Steel Timber and Foundation Plan, undated

Map-folder 79	240, Motor Truck Scale, undated
Map-folder 79	241, Steam line from Heater to Office and Wash House, undated
Map-folder 79	241, Addition to Council Ridge No. 11 Slope Wash House Eckley, undated
Map-folder 79	241, Addition to Buck Mtn Slope II Wash House, undated
Map-folder 79	242, Heater House for Buck Mtn. Slope #11, undated
Map-folder 79	243, Hoist and Heater House for Buck Mountain Slopes #11,and 14" Electric Hoists, undated
Map-folder 79	244, Details of Brake Band for Buck Mountain Slopes #11 and #14 Electric Hoists, undated
Map-folder 79	245, Addition to Buck Mountain Mule Barn, undated
Map-folder 79	246, Mine Locomotive House No. 2 Drifton, undated
Map-folder 79	247, Coal Pocket for Buffalo, undated
Map-folder 79	248, Standard Power House (Stone), undated
Map-folder 79	249, Sand Dryer and Build D.S and S.R.K., undated
Map-folder 79	250, Boiler House Eckley No.10 Engine Shed, undated
Map-folder 79	251, Details for Engine and Air Compressor Building, undated
Map-folder 79	252, Shaft Hoist and Air Compressor No. 1 Oneida, undated
Map-folder 79	253, Air Compressor Plant for Deringer, undated
Map-folder 79	254, Bill of Lumber for #3 Oneida Boiler House, undated
Map-folder 79	255, Engine House for H. Engine at Oneida Breaker, undated
Map-folder 79	256, Plan of Engine House 24 ft. x 20 ft. 15" for Green Mountain, undated
Map-folder 79	257, Mule Stable and Feed House Stockton, undated
Map-folder 79	258, Buck Mountain Boiler House, undated
Map-folder 79	259, Buck Mountain Double Hoisting Engine House, undated
Map-folder 79	260, Buck Mountain Engine House, undated

Map-folder 79	261, Eckley Mule Stable, undated
Map-folder 79	262, Foundation and Pits for Standard Locomotive House, undated
Map-folder 79	263. No.2 Well at No.4 Woodside North Side of Basin, undated
Map-folder 79	264, Boiler House at Buck Mountain, undated
Map-folder 79	265, Air Compressor Drifton No.2, undated
Map-folder 79	266, Mine Locomotive House for Gowers, undated
Map-folder 79	267, Machine Shop Showing Arrangement of Mach's and shafting, undated
Map-folder 79	268, Car and Smith-Shop, undated
Map-folder 79	269, Arrangement of Shop and Ware-House, undated
Map-folder 80	270, Smith and Car Shop, Beaver Meadow, undated
Map-folder 80	271, Smith Shop Buck Mountain, undated
Map-folder 80	272, Eckley Stable Feed House, undated
Map-folder 80	273, Trass rad lengths for Different places, undated
Map-folder 80	274, Mule Stable, undated
Map-folder 80	275, Arrangement of Mule Stable Beaver Meadow, undated
Map-folder 80	276, Locomotive House at Oneida, undated
Map-folder 80	277, Eckley Boiler House Coal Conveyor, undated
Map-folder 80	278, Deringer Store House, undated
Map-folder 80	279, Oneida Saw Hill, undated
Map-folder 80	280, Diamond Drill, undated
Map-folder 80	281, Details of Stocking Machine at Roan, undated
Map-folder 80	282, Conveyor dressing for Boiler Plant No. 2 Drlfton, undated
Map-folder 80	283, Number not used, undated
Map-folder 80	284, The Dorr Thickener 75' to 100' Assembly of Center Mechanism, undated

Map-folder 80	285, The Dorr Thickener 75'-0" t 85'-0" Erection Diagram, undated
Map-folder 80	286, The Dorr Thickener Wiring Diagram with overload Alarm, undated
Map-folder 80	287, Overload Alarm General Drawing, undated
Map-folder 80	288, Coxe Brothers Company Inc., undated
Map-folder 80	289, The Dorr Toro Thickener, undated
Map-folder 80	290, Track Support Hazle Brook Colliery, undated
Map-folder 80	291, Retail Goal Pockets Deringer, undated
Map-folder 80	292, 20'x 40' Wash House for Highland No. 2, undated
Map-folder 80	293, Wash House Eckley 6 Slope, undated
Map-folder 80	294, Proposed Track Changes, undated

Subseries 6.13: Drawings, Bearings, Drives and Cranes (Group 12)

Map-folder 84	1, Nail Hook, undated
Map-folder 84	2, Details for Deringer Bolt Cutter, undated
Map-folder 84	3, Drill Press for Outside Shops, undated
Map-folder 84	4, Barrel Crane, undated
Map-folder 84	5, Miscellaneous Details for Steam Rock Drill, undated
Map-folder 84	6, Cog Wheel for Slaught-House Capstan, undated
Map-folder 84	6, Shaftin for Capstan for Slaught House, undated
Map-folder 84	7, Details for Deringer Car-shop Bolt Cutter, undated
Map-folder 84	8, Artesian Well Rods Scales, undated
Map-folder 84	9, Artesian Well Rods, undated
Map-folder 84	10, Details of rope clamp for Chicago Docks, undated
Map-folder 84	11, Boiler Shop Tools, undated

Map-folder 84	12, Arrangement and Details Compressed Air White Washer, undated
Map-folder 84	13, Details of Tools for Boiler Shop, undated
Map-folder 84	14, Bulldozer, undated
Map-folder 84	15, Details of Different Tools for Smith Shop, undated
Map-folder 84	16, No Identification, undated
Map-folder 84	I7, Details for Crane at Boiler Shop, undated
Map-folder 84	18, Details for Columbian Wood Planer at Car Shop, undated
Map-folder 84	19, No Identification, undated
Map-folder 84	20, Details of Boiler Shop Tools, undated
Map-folder 84	21, Details of Gold Dust Wood Planer, undated
Map-folder 84	22, Details and Plan of Line Shaft in Machine Shop, undated
Map-folder 84	23, Details of Hoists for Machine Shop, undated
Map-folder 84	24, Details of Shop Tools, undated
Map-folder 84	25, Miscellaneous Detail for Shops, undated
Map-folder 84	26, Flue Cleaners for the Boiler Shop, undated
Map-folder 84	27, Foundry Details, undated
Map-folder 84	28, Details for Machinery at Different Places, undated
Map-folder 84	29, Steam Hoist for Machine Shop, undated
Map-folder 84	30, Details of Slide Rest for Large Lathe in Machine, undated
Map-folder 84	31, Detail of Shop Tools, undated
Map-folder 84	32, Church for Lathe, undated
Map-folder 84	33, Details of Boiler Shop Tools, undated
Map-folder 84	34- Foundry Details Scale, undated
Map-folder 84	35, Details of Jack Screw, undated

Map-folder 84	36, Details of Shop Tools, undated
Map-folder 84	37, Details of Boring head, undated
Map-folder 84	38, Boring Tools, undated
Map-folder 84	39, Standard Coupling, undated
Map-folder 84	40, Tumble Switch, undated
Map-folder 84	41, Standard Key, undated
Map-folder 84	42, No Identification, undated
Map-folder 84	43, Pulverizer in Cope Iron Manufacturing., undated
Map-folder 84	44, Stay Bolt and Dies from Wiley and Russell Mfg. Co., undated
Map-folder 84	45, Stay Bolt Reamers from Riley and Russell Manfacturing Co., undated
Map-folder 84	46, Standard Collars, undated
Map-folder 84	47, All threads standard bolts and nuts steel, undated
Map-folder 84	48, Standard Pedestal, undated
Map-folder 84	49, Standard Pedestal, undated
Map-folder 84	50, Number not used, undated
Map-folder 84	51, Number not used, undated
Map-folder 84	52, Standard Stuffing Boxes, undated
Map-folder 84	53, Wood Bits for Car Shop Boring Machine, undated
Map-folder 84	54, Sheet Iron Tallow Can, undated
Map-folder 84	55, Condition under which Belting is used on Jigs, undated
Map-folder 84	56, Movable Jaw Vise Cast Iron, undated
Map-folder 84	57, Details of Standards, undated
Map-folder 84	58, Plunger Rod in Allison Pump at Stockton Bronze, undated
Map-folder 84	59, Ferrates for Delaware, Schuylkill and Susquehanna Engine Flues, undated

Map-folder 84	60, Emery Wheel for Universal Culter and Reamer Grinder, undated
Map-folder 84	61, Cup Leather for Hydraulic Pit Jack, undated
Map-folder 84	62, 3 7/8" Pedestal with Adjustable Box, undated
Map-folder 84	63, Pulley for Rope Transmission, undated
Map-folder 84	64, Gearing at Different places Spur Wheels, undated
Map-folder 84	65, Details of Pedestals, undated
Map-folder 84	66, Segment of Gear Wheel, undated
Map-folder 84	67, Cone and Swivel, undated
Map-folder 84	68, Hooks Chains Swivels for Different Places, undated
Map-folder 84	69, Crab Hoist for Car Shops at Different Places, undated
Map-folder 84	70, Open Socket for 1 1/4" Rope Wildless Forged Steel, undated
Map-folder 84	71, Shackle and Hook with Swivel clevis, undated
Map-folder 84	72, Drag Chains, Sprockets, etc. for Different Places, undated
Map-folder 84	73, Details of Eckley Monobar Drag, undated
Map-folder 84	74, Standard Take up for Elevators and Conveyors, undated
Map-folder 84	75, Details for Shop yard Crane, undated
Map-folder 84	76, Drag Chains, Sprockets, etc. for Different Places, undated
Map-folder 84	77, Rope Appliances for Beaver Meadow, undated
Map-folder 84	79, Details for Conveyors, undated
Map-folder 84	80, Details of Cast Iron for Crane Boiler Shop Annex, undated
Map-folder 84	81, Wrought Iron and Steel Forgings for Crane, undated
Map-folder 84	82, Details for Shop Yard Crane, undated

Subseries 6.14: Drawings, Foundation (Group 13)

Map-folder 85	1, Foundation Plan and Details, undated
Map-folder 85	2, Foundation Plan, undated
Map-folder 85	3, Number not used, undated
Map-folder 85	4, Anchor bolt and Plates for No.2 Breaker, undated
Map-folder 85	5, Triple Compound Air Compressor Foundation, undated
Map-folder 85	6, Plan of Walls for Breaker, undated
Map-folder 85	7, Plan of Walls for Breaker, undated
Map-folder 85	8, Strengthening Foundation of No. 1 Slope Hoist Drifton, undated
Map-folder 85	9, Pit for Electric Locomotives Eckley and Drifton, undated
Map-folder 85	10, Excavation Plan for B, Meadow Run of Mine Conveyor, undated
Map-folder 85	11, Plan of Breaker Foundation Walls, undated
Map-folder 85	12, Foundation Plan of 50 H.P. Vulcan Electric Hoist, undated
Map-folder 85	13, Foundation Walls and Arrangement of Timber Bearers under 10,000 Gallon, undated
Map-folder 85	14, Location and Excavation Plan of New Retail Truck Scale, undated
Map-folder 85	15, Foundation for 12 x 15 Webs Camp and. Lane Hoist Engine, undated
Map-folder 85	16, Beaver Meadow Anchor Plates for Engine Foundation, undated
Map-folder 85	17, Plan of Walls: for Coal Breaker, undated
Map-folder 85	18, Foundation for 21 x 38 Hoist Engine at Buck Mountain, undated
Map-folder 85	19, Foundation for 14 x 24 Hoist Engine, undated
Map-folder 85	20, Foundation for 16 x 30 Hoisting Engine at Eckley, undated
Map-folder 85	21, Foundation for 14 x 24 Hoist Engine for Warrior Run, undated
Map-folder 85	22, Foundation for Pumps Heater Engine and Fan #2 D. Breaker, undated

Map-folder 85	23, Foundation for Erie Eng. and Sturdevant Fan for #2 Drifton, undated
Map-folder 85	24, Foundation for Pumps Heater Engine and Fan #Drifton Breaker, undated
Map-folder 85	25, Eckley Boiler House, undated
Map-folder 85	26, Triple Compound Air Compressor Foundation, undated
Map-folder 85	27, Porter Allen Engine 13 'x2 24 Foundation Plan, undated
Map-folder 85	28, Foundation for 7'-6" Orates and 90" Boiler at Eckley No. 10, undated
Map-folder 85	29, Air Compressor and Foundation No. 2 slope, undated
Map-folder 85	30, Air Compressor and Foundation No. 2 slope, undated
Map-folder 85	31, Foundation for 22 x 24 1/4 x 24 Air Compressor for Deringer, undated
Map-folder 85	32, Foundation For Fan, Engine Eng. House and Fan House, undated
Map-folder 85	33, Hoisting Engine and Boiler No. 6 Slope, undated
Map-folder 85	34, Foundation for Babcock and Wilcox Boiler, undated
Map-folder 85	35, Arrangement for No.14 Hoisting Engine, undated
Map-folder 85	36, Foundation for 3rd and 4th Battery of Babcock and Wilcox B., undated
Map-folder 85	37, Foundation of 2nd Air Compressor at No. 2, undated
Map-folder 85	38, Foundation for Duplex Compound Pump, undated
Map-folder 85	39, Fan and Engine Foundation, undated
Map-folder 85	40, Foundation Templet for Air Compressor, undated
Map-folder 85	41, Foundation for Air Compressor at Deringer, undated
Map-folder 85	42, Foundation for 66" Boiler at Lattimer Stripping, undated
Map-folder 85	43, Arrangement of Foundation for Double Hoisting Engine, undated
Map-folder 85	44, Plan View of Foundations Eckley Breaker, undated
Map-folder 85	45, Foundation for Hoisting Engine at Oneida #6, undated
Map-folder 85	46, Foundation for Hoisting Engine at West Stockton, undated

Map-folder 85	47, 12" x 24" Hoisting Engine for New East No.3 Stockton Stripping, undated
Map-folder 85	48, Foundation for 36" x 21" by 38" Compound Hoisting Engine, undated
Map-folder 85	49, Foundation for Fan at Beaver Meadow #1, undated
Map-folder 85	50, Foundation and Brake Arrangement for Hoisting Engine at West Slope, undated
Map-folder 85	51, Foundation for 14" x 24" Engine Buck Mt Stripping, undated
Map-folder 85	52, Foundation for 13" x 24" Hoist Engine for Deringer, undated
Map-folder 85	53, Foundation for 36" and 21" x 38" Com. Hoist. Engine Oneida 38", undated
Map-folder 85	54, Foundation for Babcock and Wilcox Boiler, undated
Map-folder 85	55, Foundation for 14" x 24" Eng. Buck Mountain Stripping, undated
Map-folder 85	56, Foundation Oneida Saw Mill Engine Class, undated
Map-folder 85	57, Foundation of Breaker Engine, undated
Map-folder 85	58, Foundation Plan for 17" x 24" Hoisting Engines, undated
Map-folder 85	59, Foundation for Air Compressor, undated
Map-folder 85	60, Foundation for Oneida Saw Mill, undated
Map-folder 85	61, Foundation Plan for L.P.G. Jeansville Pump, undated

Subseries 6.15: Drawings, Railroad Track Layouts, Track Details and Dumping (Group 14)

Map-folder 86	1, Inside Track Plant Rotary, undated
Map-folder 86	2, Underground Haulage Track Arrangement, undated
Map-folder 86	3, Outside Features Eckley #7 Slope, undated
Map-folder 86	4, Heavy Duty 5' -0 switch to be used on all main line track, undated
Map-folder 86	5, Oneida No. 2, undated
Map-folder 86	6, Tracks Breaker No.1 Eckley, undated
Map-folder 86	7, Meat Market Track, undated

Map-folder 86	8, Bridge, Deringer Saw Mill, undated
Map-folder 86	9, Part of Chicago Showing Track, undated
Map-folder 86	10, Plat of Proposed Side Tracks to Coal Yard, undated
Map-folder 86	11, Clybourn Ave.Dock, undated
Map-folder 86	12, Tracks at Clybourn Ave, Dock, undated
Map-folder 86	13, Detail of Rail Chair Full Size, undated
Map-folder 86	14, Profile of Roan yard showing grade of railroad track and shear leg track, undated
Map-folder 86	15, Plan showing contour lines at Roan Yard, undated
Map-folder 86	16, Bridgeport Dock, undated
Map-folder 86	17, Plan of Buildings and Track Milwaukee Docks, undated
Map-folder 86	18, Outside Features, undated
Map-folder 86	19, Transportation plans in [Conn?], with handling Council Ridge, undated
Map-folder 86	20, Plan of Track to Ash Hopper Drifton #2, undated
Map-folder 86	21, Proposed Track Layout, undated
Map-folder 86	32, Unidentified, undated
Map-folder 86	24, Proposed Track Changes Desired, undated
Map-folder 86	25, Run of Mine Dump Hopper and Conveyor or Colliery, undated
Map-folder 86	26, Railroad Car Dump Beaver Meadow, undated
	27 (MISSING), Run of Mine Dump Hopper and Conveyor or Colliery, undated
Map-folder 87	Trestle over Black Creek, Locomotive Road between Deringer and Gowen, S-1978, 1913
Map-folder 87	Correspondence of Edward Kudlich, 1904-06-1904-11
Map-folder 87	Peter Martn Tract, map showing Hazleton, Weatherly and Mauch Chunk Traction Railroad, 1904

Map-folder 87	Line of HW and MC Railroad through lands of Coxe Estate, undated

Subseries 6.16: Drawings, Miners Houses, Mine Site Buildings (Group 15)

Map-folder 88	1, Full Sized Details for interior Billiard Room, undated
Map-folder 88	2, Details full Sized for Green House, undated
Map-folder 88	3, Benton Shaver House, undated
Map-folder 88	4, Bill of Corrugated Iron for Eckley Mine House, undated
Map-folder 88	5, Ice House for Mrs. Charles B. Coxe, undated
Map-folder 88	6, Details of Green House for Mrs. C.B. Coxe, undated
Map-folder 88	7, Miner's House four families, undated
Map-folder 88	8, Sunday School Building, undated
Map-folder 88	9, Woodside Addition Houses, undated
Map-folder 88	10, Bill of Material for One-family House, undated
Map-folder 88	11, New Houses Woodside Addition, undated
Map-folder 88	12, New Houses Woodside Addition, undated
Map-folder 88	13, Miners House (2 families), undated
Map-folder 88	14, Mine House 32ft 10" by 36ft 8" two Families, undated
Map-folder 88	15, Mine House lumber Bill, undated
Map-folder 88	16, Window for Mine Houses, undated
Map-folder 88	17, New Houses Woodside Addition, undated
Map-folder 88	18, Bill of Material for One 2-family House, undated
Map-folder 88	19, Bill of Material for One 2-family House, undated
Map-folder 88	20, Mine House 2-family Block 30" x 38", undated
Map-folder 88	21, Cottage for Mr. G.D. Oliver, undated

Map-folder 88	22, Window for Mr. G.D. Oliver's Cottage, undated
Map-folder 88	23, Plan of Grounds of Mrs. C.B. Coxe, undated
Map-folder 88	24, Store Oneida, Pennsylvania, undated
Map-folder 89	25, Double Dwelling House, undated
Map-folder 89	26, Store and Hotel Stable Drifton, Pennsylvania, undated
Map-folder 89	27, Club House, undated
Map-folder 89	28, Cottage of Cross Creek Coal Co., undated
Map-folder 89	29, Cottage of Cross Creek Coal Co., undated
Map-folder 89	30, Double Dwelling House known as the Rohland House, undated
Map-folder 89	31, Barn for Mr. L.C. Smith, undated
Map-folder 89	32, Cottage for Mr. J.D. Oliver, undated
Map-folder 89	33, Sash for Green House, undated
Map-folder 89	34, Cap for Newel Post for Mrs. C.B, Coxe's Porch, undated
Map-folder 89	35, Bill of Lumber, undated
Map-folder 89	36, Front Elevation of Mrs. C.B. Coxes' House, undated
Map-folder 89	37, Dormer Window C.B. Coxe house, undated
Map-folder 89	38, Details for Laboratory Building, undated
Map-folder 89	39, Family Dwelling House near Machine Shop Office, undated
Map-folder 89	40, Improvements on Houses No. 105 and 106 Scotch Hill, undated
Map-folder 89	41, Ice House for Mr. E.B. Coxe, undated
Map-folder 89	42, Mining and Corn Office and Library, undated
Map-folder 89	42, First Story, Mining Office, undated
Map-folder 89	43, Details for Mr. E.B.Coxes House, undated
Map-folder 89	44, First Floor Plan House for Mrs. Charles. B. Coxe, undated

Map-folder 89	45, Hall. Drifton, Pennsylvania, Eckley Brinton Coxe Jr., undated
Map-folder 89	46, Cottage of Cross Creek Coal Co. detail Sheet, undated
Map-folder 89	47, Sash. Weights Scale Full size, undated
Map-folder 89	48, Stable and wagon shed for Oneida Store, undated
Map-folder 89	49, Closet, E.B. Coxe, Library, undated
Map-folder 89	50, Section of Window Frame Full Size Details for Library, undated
Map-folder 90	51, Pennington House, undated
Map-folder 90	52, Woodside Addition House, undated
Map-folder 90	53, Pennington House, undated
Map-folder 90	54, Cottage of Cross Creek Coal Co., undated
Map-folder 90	55, Bath Room, N.E. Bay, Wind Second Floor, undated
Map-folder 90	56, Plan No. 1Cottage for Mr. L.C .Smith, undated
Map-folder 90	57, Closet for Wash House, undated
Map-folder 90	58, Plan for St. James Church and Sunday School Building, undated
Map-folder 90	59, Remodeling of Club House, undated
Map-folder 90	60, Mr. S. Salmon Residence, undated
Map-folder 90	61, Green House for Mr. E.B. Coxe, undated
Map-folder 90	61, Bill of Lumber for E.B. Coxe Green House, undated
Map-folder 90	62, Doctors Office at Fern Glen, undated
Map-folder 90	63, Elevation of side wall of Dining Room, undated
Map-folder 90	64, Addition to North Side of Library Building, undated
Map-folder 90	64, Bay Window for Library, undated
Map-folder 90	64, Cast Iron Door Frame for Mew Library, undated
Map-folder 90	64, Library Building Showing Addition, undated

Map-folder 90	64, Bay Window for Library Building, undated
Map-folder 90	64, Details for Library Roof, undated
Map-folder 90	64, Cornice for Library Roof, undated
Map-folder 90	64, Plan of Paneled Sheet Iron Ceiling for Library, undated
Map-folder 90	65, Frame House in Brinton Coxe, undated
Map-folder 90	65, Details for Stairs, undated
Map-folder 90	65, Porch for Mr. Brinton Coxe's House, undated
Map-folder 90	65, Mr. Brinton Coxe, Residence Drifton, Pennsylvania, undated
Map-folder 90	65, Brinton Coxe, Esq., undated
Map-folder 90	66, Hospital Building, undated
Map-folder 90	66, Hospital Prescription Case, undated
Map-folder 90	67, Parsonage for Otelsh Congregational Church, undated
Map-folder 90	68, Bay Windows for Miss R. Coxe, undated
Map-folder 90	69, Details of Store at Fern Glen, undated
Map-folder 90	69, Fern Glen Store Box Window Frame, undated
Map-folder 90	69, Trestling Fern Glen Store, undated
Map-folder 90	69, Foundation of Store at Pern Glen, undated
Map-folder 90	69, Store front, undated
Map-folder 90	69, Guards for Fern Glen Store, undated
Map-folder 90	69, Cast Columns for Front Store, undated
Map-folder 90	69, Wire guards for Deringer Store, undated
Map-folder 90	70, Main Office Low down grate for Superintendents Office, undated
Map-folder 90	70, Buck Stay for Main Office Fire Proof, undated
Map-folder 90	70, Plan of Main Office, undated

Map-folder 90	70, Construction Office Fire Proof, undated
Map-folder 90	70, Plan of Files Drawers, and Shelving for Vault, undated
Map-folder 90	70, Cast Frame and Wrought Iron Doors for Main Office, undated
Map-folder 90	70, Main Office Fire Proof Vault, undated
Map-folder 90	70, Second Floor Plan of Main Office at Drifton, Pennsylvania, undated
Map-folder 90	70, St, James Church and Sunday School Freeland, Pennsylvania, undated
Map-folder 90	70, Porch and Steps for St. James Sunday School Freeland, Pennsylvania, undated
Map-folder 90	71, Sunday School Building, undated
Map-folder 90	71, Foundation for St. James Sunday School, undated
Map-folder 90	71, Window Frame Sunday School Building, undated
Map-folder 90	71, Bill of Lumber for Sunday School Building Woodside addition, undated
Map-folder 90	71, Bill of Lumber for Store at Fern Glen, undated
Map-folder 90	72, Annex to Foundry Toward Machine S, undated
Map-folder 90	73, Elevation of Machine Shop, undated
Map-folder 90	73, Addition to Machine Shop, undated
Map-folder 90	73, Machine Shop Addition toward Pattern Shop, undated
Map-folder 90	73, Boiler Shop Annex toward Office, undated
Map-folder 90	73, Details of Bents Boiler Shop Annex, undated
Map-folder 91	Detail of corrugated wire skylight for wash house, Hazleton shaft, 1923
Map-folder 91	Black Smith and Car Shop for Spring Mountain Colliery, 1907
Map-folder 91	Outside stable, hay and feed room, Hazleton Colliery, 1910
Map-folder 91	Terra cotta tile for engine house #5, 1911
Map-folder 91	Highway Bridge and Black Creek, 1921
Map-folder 91	Window for mine houses at Drifton, Pennsylvania, undated

Map-folder 91	Unidentified elevation drawings for a house, undated
Map-folder 91	Brick Wash House, 1923
Map-folder 91	Wash House, 1913
Map-folder 91	St. James Church, Drifton, Pennsylvania (3 drawings), undated
Map-folder 15	Bill of material for one 4-family house, undated
Map-folder 91	Bill of material for one 2-family house, undated
Map-folder 91	Mine House 2-Family Block, 1903
Map-folder 91	Mine house drawing, 1720/11, 1887
Map-folder 91	Miner's House for 4 Families, drawing C-758, 1897

Subseries 6.17: Small Drawings, 1895-1941

Scope and Contents: Many of these drawings are pencil and ink on paper or were copied or "redrawn" from sketch books. For example, a drawing reads, "sketch by A. Allen." Some of the drawings are stamped with "G.B." presumably referencing G.B. Markle and Company, coal miners. The majority of drawings are 11" x 15", but some larger drawings are folded.

Box 16, Folder 16	3-1, Steam, air and fresh water lines, 1908-1918
Box 17, Folder 1	3-2, Boilers, plants, grates, pipes and steam lines, 1920-1922
Box 17, Folder 2	5-1, Pumps, column lines, and breaker water lines, 1920s
Box 17, Folder 3	5-1, Pumps, column lines, pipes, valves, and condensers, 1904-1919
Box 17, Folder 4	6-1, Compressors sand hoists, 1916-1926
Box 17, Folder 5	6-2, Engines, compressors and hoists, 1908-1919
Box 18, Box 1	6-3, Engines, hoists, and compressors, 1898-1923
Box 18, Box 2	6-4, Engines, hoists, and compressors, 1896-1921
Box 18, Box 3	6-4, Engines, hoists, and compressors, 1896-1921
Box 18, Box 4	6-5, Engines, hoists, and compressors, 1920s
Box 18, Box 5	6-6, Engines, hoists, and compressors, 1917-1923

Box 18, Box 6	7-1, Locomotive #38, 11" x 14", 1897-1899
Box 19, Box 1	7-2, Coxe locomotive #4 and Hazlebrook locomotive #30, 1933, 1936
Box 19, Box 2	7-3, Coxe sketches for drawings, 1929-1935
Box 19, Box 3	7-4, Clark locomotives #38 and #68 (10 x 14), 1920, 1926
Box 19, Box 4	7-5, Clark locomotive #49 (10 x 14), 1919-1922
Box 19, Box 5	7-6, Coxe locomotive #17 (11 x 14), 1888-1889, 1933
Box 19, Box 6	7-7, Coxe locomotive #21 (13 x 14), 1907, 1919
Box 19, Box 7	7-8, Rogers locomotives, #22 and #23 (14 x 20), 1918-1941
Box 19, Box 8	7-9, Baldwin locomotives, #3 and #32 (14 x 20), 1920-1929
Box 19, Box 9	7-10, Vulcan locomotives, #67 and #89 (7 x 12), 1917-1923
Box 19, Box 10	7-12, Baldwin locomotive #109 (10 x 16), 1916-1934
Box 20, Folder 1	7-13, Vulcan locomotive #112 (12 x 16), 1926-1936
Box 20, Folder 2	7-14, Vulcan locomotive #113 (12 x 16), 1911, 1936
Box 20, Folder 3	7-15, Vulcan locomotive #117, 1936
Box 20, Folder 4	7-16, Vulcan locomotive #107 (12 x 16), 1922-1924
Box 20, Folder 5	7-17, Vulcan locomotive #115 (12 x 16), 1922, 1936
Box 20, Folder 6	7-18, Air motors, 1920-1921
Box 20, Folder 7	7-19, Locomotive #38, 1933
Box 20, Folder 8	7-19, Locomotives, signal, steam. and electric air, 1922
Box 20, Folder 9	8-1, Mine cars, gun boats, barges, cages, and dumps, 1923-1927
Box 20, Folder 10	9-1, Fans ventilating boiler house, 1923-1926
Box 20, Folder 11	10-1, Rope carriers, rope wheels, pulleys and shears, 1926
Box 20, Folder 12	11-1, Miscellaneous structures and machinery conveyor, 1907-1921
Box 21, Folder 1	12-1, Tools and equipment, 1915-1926

Box 21, Folder 2	12-17, Burke high voltage air break switch, lighting arrestor, and choke coil and fuse, 1919
Box 21, Folder 3	14-1, Track, 1923
Box 28, Folder 9	2-1, Breaker machinery, shakers, jigs, and conveyors, 1898-1927
Box 28, Folder 10	2-2, Shakers, jigs, and conveyors, 1895-1926
Box 30, Folder 5	Wyoming Valley Water Supply Company, 1915 1921
Box 30, Folder 6	William A. Colliery, #10 tunnel hoist, 1919
Box 30, Folder 7	Transformer outline from Lehigh Coal Co., drawing, 1921
Box 30, Folder 8	Vulcan Iron Works, shaking chute drive at Drifton Colliery, 1928

Subseries 6.18: Beaver Meadows Colliery, 1911-1928

Box 21, Folder 4	CB-1A, Locomotive #8, slope, 1923
Box 21, Folder 5	CB-1B, #2 slope, 1919-1925
Box 21, Folder 6	CB-1C, #8 slope haulage, 1925-1926
Box 21, Folder 7	CB-1D, #4 West Buck Mountain veins, 1927
Box 21, Folder 8	CB-2, Hoist maintenance and repairs, 1923
Box 21, Folder 9	CB-2A, #5 slope hoist letting down plane, 1913-1926
Box 21, Folder 10	CB-2B, #6 slope hoist, 1912-1913
Box 21, Folder 11	CB-2C, Miscellaneous small hoist, 1920
Box 21, Folder 12	CB-2D, Inside Buck Mountain slope, 1918
Box 21, Folder 13	CB-2E, Slope comma vein, 1920
Box 21, Folder 14	CB-2F, #8 slope and #5 workings, 1923-1927
Box 21, Folder 15	CB-3A, #4 slope wash water pump, 1928
Box 21, Folder 16	CB-4, Fans, 1916
Box 21, Folder 17	CB-4, Fan maintenance and renewals, 1917-1925

Box 21, Folder 18	CB-4A, #5 slope fan, 1916
Box 21, Folder 19	CB-4B, #8 slope, 1923
Box 21, Folder 20	CB-4C, Small ventilating fans, 1926
Box 21, Folder 21	CB-5, Power, 1913
Box 21, Folder 22	CB-5, General, 1923
Box 21, Folder 23	CB-5A, Slope (M-G set), 1921-1923
Box 21, Folder 24	CB-7, Washery, 1922
Box 21, Folder 25	CB-7A, Beaver Creek washery, 1922-1923
Box 21, Folder 26	CB-7B, timber yard saw, 1928
Box 21, Folder 27	CB-8, Colliery lighting, 1914-1927
Box 21, Folder 28	CB-08A, #6 slope lights and signals, 1918
Box 21, Folder 29	CB-8B, Lighting company houses, 1924-1928
Box 21, Folder 30	CB-9A, Forecast data, 1921-1926
Box 21, Folder 31	CB-10, general maintenace, 1928
Box 21, Folder 32	CB-10A, Portable air compressor, 1926
Box 28, Folder 11	Beaver Meadow Colliery, drawings, 1923-1926
Box 28, Folder 12	Beaver Meadow Colliery, duplicate drawings, 1911-1927

Subseries 6.19: Deringer Colliery, 1913-1929

Box 25, Folder 14	CR-1, Haulage, 1915-1922
Box 25, Folder 15	CR-1, Trolley locomotive, 10 ton, 1926-1928
Box 25, Folder 16	CR-1A, Tomhicken drift haulage, 1919-1923
Box 25, Folder 17	CR-1B, Baldwin locomotive, 1919-1920
Box 25, Folder 18	CR-1C, Creek tunnel, Gowen, 1926-1927

Box 25, Folder 19	CR-1D, Electric haulage, second level drift, 1926-1929
Box 25, Folder 20	CR-1E, Battery locomotive, general drift, 1926
Box 25, Folder 21	CR-1F, Electric haulage, 1927
Box 25, Folder 22	CR-2, Hoists, 1920-1921
Box 25, Folder 23	CR-2, Hoists, general maintenance, 1921
Box 25, Folder 24	CR-2A, #8 and #9 and #110, slope hoist Tomhicken, 1914-1917
Box 25, Folder 25	CR-2B #4 slope hoist Gowen, 1917-1920
Box 25, Folder 26	CR-2C, Room hoist, 1917-1918
Box 25, Folder 27	CR-2D, #8 slope, 1919
Box 25, Folder 28	CR-2E, Wharton vein hoist, 1928
Box 26, Folder 1	CR-2F, Small hoists, 1922
Box 26, Folder 2	CR-7A, Auto starter, rotary converter for Gowen #4 slope, 1915-1919
Box 26, Folder 3	Deringer substation and wiring (drawings #441), 1921-1926
Box 26, Folder 4	Deringer Colliery, various drawings, 1918-1921
Box 26, Folder 5	CR-2G, Rock hoist, 1925-1926
Box 26, Folder 6	CR-2H, #11 slope, 1923-1927
Box 26, Folder 7	CR-3, Pumps, 1914-1924
Box 26, Folder 8	CR-3, Pumps, general maintenance, 1917-1928
Box 26, Folder 9	CR-3A, Pumps, 1923-1925
Box 27, Folder 12	CR-6A, 4000 volt feedline, Gowen #4, 1919
Box 27, Folder 13	CR-7, Stationary motor maintenace, 1928
Box 27, Folder 14	CR-7A, Motors for shop, 1919-1920
Box 27, Folder 15	CR-7B, Timber yard saw, 1917-1928
Box 27, Folder 16	CR-8, Lighting, 1918-1919

Box 27, Folder 17	CR-8B, Wiring company houses, 1924-1926
Box 27, Folder 18	CR-8C, Lighting Glen Drift Wash House, 1927-12-20
Box 27, Folder 19	CR-9, Transformers, 1914-1917
Box 27, Folder 20	CR-9B, Telephone and signals, 1920
Box 27, Folder 21	CR-9C, Expenditures, 1921-1926
Box 27, Folder 22	CR-10A, Air compressor, 1923
Box 28, Folder 1	CR-10, Motor starter, 1928
Box 28, Folder 2	CR-10, Compressors, 1923, 1926
Box 28, Folder 3	CR-10A, Portable air compressor, 1920-1928
Box 28, Folder 4	Electrolytic lighting arrester, 1915
Box 29, Folder 1	Deringer Colliery structure, 194, 1924
Box 29, Folder 2	Deringer Colliery, duplicate drawings, 1913-1927

Subseries 6.20: Drifton Colliery, 1909-1929

Box 22, Folder 1	CD-1A, Haulage, 1919-1920
Box 22, Folder 2	CD-1, Micellaneous, 1922-1928
Box 22, Folder 3	CD-1A, Lattimer #9 slope haulage, 1920-1921
Box 22, Folder 4	CD-1B, #1 slope haulage, 1920-1927
Box 22, Folder 5	CD-1C, George Moore haulage, 1920-1921
Box 22, Folder 6	CD-1D, #11 slope, 1927
Box 22, Folder 7	CD-1E, Drift haulage to #2 slope, 1927-1929
Box 22, Folder 8	CD-2, Hoists general and maintenance, 1917-1928
Box 22, Folder 9	CD-2A, #9 slope hoist Lattimer stripping, 1916-1926
Box 22, Folder 10	CD-2B, Surface slope Lattimer stripping, 1918-1921

Box 22, Folder 11	CD-2C, George Moore tract, 1919
Box 22, Folder 12	CD-2D, #10 slope, 1920
Box 22, Folder 13	CD-2E, Surface slope along slope Lattimer stripping, 1926-1927
Box 22, Folder 14	CD-2F, room hoists, 1921, 1927
Box 23, Folder 18	CD-2G, Inside Buck Mountain slope, 1926-1927
Box 23, Folder 19	CD-3, Pumps, 1919-1925
Box 23, Folder 20	CD-3, Pumps, general maintenance, 1926
Box 23, Folder 21	CD-3A, Geroge Moore pumps, 1919-1925
Box 23, Folder 22	CD-3B, #9 slope engine house and fresh water pump, 1919
Box 23, Folder 23	CD-3C, #1 slope, 1926-1928
Box 23, Folder 24	CD-3D, #2 slope, 1926
Box 23, Folder 25	CD-4, fans, 1918-1926
Box 23, Folder 26	CD-4, Fans, general maintenance, 1927
Box 23, Folder 27	CD-4A, Fans, Buck Mountain vein, and Mammouth vein, 1920
Box 23, Folder 28	CD-4B, New fan near #9 slope Lattimer, 1920
Box 23, Folder 29	CD-4C, #11 slope, 1926
Box 23, Folder 30	CD-4D, Small ventilating fans, 1926
Box 23, Folder 31	CD-5, Transformers, 1916-1919
Box 23, Folder 32	CD-5, Power stations, general maintenance, 1916-1920
Box 23, Folder 33	CD-5A, Kerr turbine and generator, 1921
Box 24, Folder 1	CD-5B, Lattimer stripping electric, 1916
Box 24, Folder 2	CD-5C, Electrification of George Moore Tract, 1918
Box 22, Folder 15	CD-5D, Outdoor substation, 11,00 volts, 1919-1925
Box 22, Folder 16	CD-5E, #9 slope substation (M-G set), 1921

Box 22, Folder 17	CD-5F, Converter substation, Geroge Moore, #1 slope, 1920-1921
Box 22, Folder 18	CD-5G, #11 slope substation, 1921
Box 22, Folder 19	CD-5H, Electrification, 1928
Box 22, Folder 20	CD-6, 400 volt line, 1919-1920
Box 22, Folder 21	CD-6A, George Moore tract, 1919
Box 22, Folder 22	CD-6B, #1 substation, 1927
Box 22, Folder 23	CD-7, Stationary drivers, 1928
Box 22, Folder 24	CD-7A, Solenoid for pocket gate, 1915
Box 22, Folder 25	CD-7B, Tank, 1920
Box 22, Folder 26	CD-7C, Shaking chutes, 1928
Box 22, Folder 27	CD-7D, Electric portable saw, 1928
Box 22, Folder 28	CD-8, 1909-1928
Box 23, Folder 1	CD-8, Building and yard lighting, 1911-1920
Box 23, Folder 2	CD-8A, Town lighting, 1913
Box 23, Folder 3	CD-9B, Telephone and signals, 1917
Box 23, Folder 4	CD-9D, Forecast data for coal tonnage, 1921-1926
Box 23, Folder 5	CD-10A, Portable compressors, 1915
Box 29, Folder 3	Drifton Colliery, duplicate drawings, 1918-1925

Subseries 6.21: Drifton Shops, 1915-1926

Box 23, Folder 6	DS-1, Brass trolley harps, 1925
Box 23, Folder 7	DS-2, Hoists, 1916-1918
Box 23, Folder 8	DS-2, General Maintenance, 1926
Box 23, Folder 9	DS-2A, Cranes, 1908, 1912

Box 23, Folder 10	DS-2B, Room hoist, 1918
Box 23, Folder 11	DS-5, Power, 1921
Box 23, Folder 12	DS-5, DC power for the shops, 1920-1925
Box 23, Folder 13	DS-5A, Small motors for general use, 1915
Box 23, Folder 14	DS-5B, AG power supply and M-G set, 1917-1924
Box 23, Folder 15	DS-7, General maintenance, 1926
Box 23, Folder 16	DS-7A, Machine tool drivers, 1921-1923
Box 23, Folder 17	DS-8, Lighting slopes and yard, 1916-1919
Box 24, Folder 3	DS-8A, Flood lights, 1917
Box 24, Folder 4	DS-9, General correspondence, 1918-1921
Box 24, Folder 5	DS-9B, Electric welder, 1919
Box 24, Folder 6	DS-10, Air compressor, 1920
Box 24, Folder 7	DS-10, Miscellaneous, 1919

Subseries 6.22: Eckley Colliery, 1916-1932

Box 24, Folder 8	CE-2A, #7 Slope hoist, 1924-1925
Box 24, Folder 9	CE-2, Hoists, 1925
Box 24, Folder 10	CE-2B, # 6 Slope hoist, 1924-1928
Box 24, Folder 11	CE-2C, #10 Slope hoist, 1926
Box 24, Folder 12	CE-3, Pumps, 1925
Box 24, Folder 13	CE-3, Pumps, 1927
Box 24, Folder 14	CE-3B, #1 Slope, 1924-1926
Box 24, Folder 15	CE-5, Power, 1927-1932
Box 24, Folder 16	CE-5A, General electrification, 1916-1924

Box 24, Folder 17	CE-5, Power, 1924-1925
Box 24, Folder 18	CE-5B, Substations, 1924-1925
Box 24, Folder 19	CE-7, Stationary motors, 1926
Box 24, Folder 20	CE-87, Car pusher, 1925
Box 24, Folder 21	CE-8, Lighting, 1923
Box 24, Folder 22	CE-8A, Street lighting, 1924
Box 24, Folder 23	CE-9, Miscellaneous, 1925
Box 29, Folder 4	Eckley Colliery, CE #7, undated
Box 29, Folder 5	Eckley Colliery, duplicate drawings, 1920, 1925-1926
Box 29, Folder 6	Eckley Colliery and Buck Mountain, 1925-1926
Box 29, Folder 7	Eckley Colliery, #9 slope hoist, 1925-1926

Subseries 6.23: Hazleton Colliery, 1907-1925

Box 29, Folder 8	Hazleton Electric File #34, 1907-1921
Box 29, Folder 9	Hazleton Electric File #39, 1914, 1919
Box 29, Folder 10	Hazleton Electric File 476-A/480, 1920
Box 30, Folder 1	Hazleton Distribution System, 1911-1925

Subseries 6.24: Oneida Colliery, 1913-1928

Box 24, Folder 24	CO-1A, Haulage, 1917-1925
Box 24, Folder 25	CO-1B, Slope haulage, 1925
Box 24, Folder 26	CO-1C, Shaft haulage, undated
Box 24, Folder 27	CO-2, Hoists, 1913
Box 24, Folder 28	CO-2A, Slope hoist, 1918-1919
Box 24, Folder 29	CO-2B, Slope hoist, 1917-1923

Box 24, Folder 30	CO-2A, Buck Mountain vein, 1922
Box 24, Folder 31	CO-3, Pumps, 1918
Box 24, Folder 32	CO-3A, Slope inside pumps, 1917-1918
Box 24, Folder 33	CO-3B, Trash water pump, 1920
Box 24, Folder 34	CO-4, Fans, 1918
Box 24, Folder 35	CO-4A, #4 Slope fans, 1917-1918
Box 24, Folder 36	CO-4B, Electrification of #5 and #8 fans in boiler plants, 1920
Box 24, Folder 37	CO-5, #5 Substation, 1912, 1918
Box 24, Folder 38	CO-5, Power stations, general maintenance, 1919-1924
Box 25, Folder 1	CO-5A, General electrification #3 shaft, 1920-1921
Box 25, Folder 2	CO-5B, Electriifcation #4 boiler plant, 1917-1922
Box 25, Folder 3	CO-5C, General electrification, 1928
Box 25, Folder 4	CO-5D, Humbolt electrification, 1927
Box 25, Folder 5	CO-6, General, 1923
Box 25, Folder 6	CO-6B, #4 substation, 1923
Box 25, Folder 7	CO-7A, Oneida breaker, 1919
Box 25, Folder 8	CO-8A, Lighting, 1920
Box 25, Folder 9	CO-8B, Lighting, 1926
Box 25, Folder 10	CO-8B, Wiring company houses, 1925-1926
Box 25, Folder 11	CO-9, Telephone line from Oneida office to #4 slope, 1918
Box 25, Folder 12	CO-9B, Telephone and signals, 1920
Box 25, Folder 13	CO-9D, Forecast data for coal tonnage, 1921-1926
Box 30, Folder 2	Oneida Colliery, miscellaneous drawings, 1919-1920

Box 30, Folder 3	Oneida Colliery, duplicate drawings, 1919-1920

Subseries 6.25: Tomhicken Colliery, 1913-1929

Box 26, Folder 10	CR-3B, # 9 Slope, 1913
Box 26, Folder 11	CR-3B, #10 Slope, 1917
Box 26, Folder 12	CR-3E, #8 Slope, 1917
Box 26, Folder 13	CR-3F, #4 Slope pump, 1917
Box 26, Folder 14	CR-4, Fans, 1915-1919
Box 26, Folder 15	CR-4A, Fan, 1913-1924
Box 27, Folder 1	CR-4B, Gowen North Tunnel, 1916
Box 27, Folder 2	CR-4C, #10 Slope fan, 1918
Box 27, Folder 3	CR-4D, Fan, 1919
Box 27, Folder 4	CR-4E, Small ventilating fans, 1926-1928
Box 27, Folder 5	CR-5, Substation, 1919-1923
Box 27, Folder 6	CR-5, Power stations, 1917-1928
Box 27, Folder 6A	CR-5B, Tomhicken drift M-G set, 1914
Box 27, Folder 7	CR-5A, Shaft substation, 1914-1923
Box 27, Folder 8	CR-5C, General electrification scheme, 1916-1920
Box 27, Folder 9	CR-5D, Substation Gowen #4 slope, 1922-1928
Box 27, Folder 10	CR-5E, 200 KW rotary converter, 1926-1929
Box 27, Folder 11	CR-6, Lines from shaft substation, 1920-1923
Box 30, Folder 4	Tomhicken Colliery, duplicate drawings, 1915-1926

Subseries 6.26: Stockton Colliery, 1912-1928

Box 28, Folder 5	L-2C, Hoists, 1920-1921

Box 28, Folder 6	L-3C, Pumps at Stockton and Hazleton, 1921-1928
Box 28, Folder 7	A1-HD, #7 Fans, 1916-1925
Box 28, Folder 8	L-7A, #7 M-G set substations, 1912-1923

Subseries 6.27: Miscellaneous, 1897-1934

Map-folder 106	Lehigh Valley Coal Company, classification of tool steels, 1915
Map-folder 106	Lehigh Valley Coal Company, travelling grate links, 1914
Map-folder 106	Primary drainage sump pump at Dorrance Colliery, undated
Map-folder 106	Details for shaking chute, 1931
Map-folder 106	Coal and coke handling 2 15/16" ball and socket pillow block, drawing 54178, Koppers Rheolaveur Company, 1923
Map-folder 106	Coal handling hanger board brackets for shaking screens, drawing 510023, Koppers Rheolaveur Company, 1924
Map-folder 106	Coal handling alternate to bone conveyor machinery diagram and shaft details, drawing 100716, Koppers Rheolaveur Company, 1930
Map-folder 106	Roller spring cap and washer, Koppers Rheolaveur Company, 1953
Map-folder 106	Details of dump at Primrose Colliery and Lehigh Valley Railroad Company, drawing 1109, 1897
Map-folder 106	Details of Lehigh Valley Coal Company, Franklin Colliery, drawing 1285, 1897
Map-folder 106	Steel sprocket tooth, 1931
Map-folder 106	Cast steel sprocket pattern, 5-364, Wilmot Engineering Company of Hazleton, Pennsylvania, 1934

Return to Table of Contents

Series 7: Maps, 1830-1997

Scope and Contents: The maps were originally indexed on notecards using a Coxe Brothers "classification system" which used a numbered fraction. The top portion of the fraction is a letter code for the colliery (e.g. "O") means Oneida, followed by a numeric class code (e.g. O-1) which means Class 1. On the bottom portion of the fraction is the subclass number followed by the map number. Therefore, O-1 over 2-3 translates to Oneida Colliery, Class 1, Subclass 2, Map 3. If known, the classification number is included.

A mining map survey, conducted in 1991, by the Division of Work and Industry staff, consists of item level survey sheets that captured object number, title, company, mine name, date, material, dimensions, draftsman/engineer, copies, physical condition, and topic. Topics included: land ownership, legal disputes, mine locations, statistics, transport system, utilities, breakers, geological, mechanical, mining plans, and surface facilities. Researchers should consult the map indices/surveys in Boxes 15 and 16 because not all data from the map survey was migrated to the finding aid.

Some maps of non-Coxe Brothers properties were included in the collection. There are several possible explanations. It is possible that additional materials were filed with them at the National Museum of American History by mistake, but some of the maps have similar tags to the Coxe maps, which makes it unlikely that all of them were added later. It is possible that some stem from consulting engineering work performed by Eckley Coxe. Coxe was an excellent engineer and was well-known in the anthracite fields for his expertise. Anecdotal reports of Coxe being called in to consult on tricky problems exist, and it is possible more formal relationships also existed (such as with the Girard Estate). Another possibility is that these non-Coxe maps represent areas that the Coxes were considering leasing or purchasing. Finally, some maps may have been added to the collection when Coxe Brothers was owned by Lehigh Valley Rail Road.

Subseries 7.1: Indices/Surveys, 1990

Scope and Contents: The mining map survey, conducted in 1991 by the Division of Work and Industry staff, consists of item level survey sheets that captured object number, title, company, mine name, date, material, dimensions, draftsman/engineer, copies, physical condition, and topic. Topics included: land ownership, legal disputes, mine locations, statistics, transport systems, utilities, breakers, geological, mechnical, mining plans, and surface facilities.

Box 15, Folder 12	Mining Map Survey (1-), 1990
Box 15, Folder 13	Mining Map Survey (2-), 1990
Box 15, Folder 14	Mining Map Survey (3-), 1990
Box 15, Folder 15	Mining Map Survey (4-), 1990
Box 15, Folder 16	Mining Map Survey (5-), 1990
Box 15, Folder 17	Mining Map Survey (6-), 1990
Box 15, Folder 18	Mining Map Survey (7-), 1990
Box 15, Folder 19	Mining Map Survey (8-), 1990

Box 15, Folder 20	Mining Map Survey (9-), 1990
Box 15, Folder 21	Mining Map Survey (10-), 1990
Box 15, Folder 22	Mining Map Survey (11-), 1990
Box 15, Folder 23	Mining Map Survey (12-), 1990
Box 15, Folder 24	Mining Map Survey (13-), 1990
Box 15, Folder 25	Mining Map Survey (14-), 1990
Box 15, Folder 26	Mining Map Survey (15-), 1990
Box 16, Folder 1	Mining Map Survey (16-), 1990
Box 16, Folder 2	Mining Map Survey (17-), 1990
Box 16, Folder 3	Mining Map Survey (18-), 1990
Box 16, Folder 4	Mining Map Survey (19-), 1990
Box 16, Folder 17	Mining maps, loose identification tags from maps, undated

Subseries 7.2: Mining Maps (1-), 1914-1921

Box 43, Item 1-1	Land surrounding Father O'Reily's fish pond and controlled by Coxe Brothers and Company, Inc. near Buck Mountain Collieries, Carbondale, Pennsylvania, undated Notes: Associated map mining survey number: 4-2/25
Box 43, Item 1-2	Tracing of West Buck Mountain Coal Mines, Rothermells Workings, extension working January 1880, Gowen, undated Notes: Associated map mining survey number: DNV-4-4-10
Box 43, Item 1-3	Underground workings, Gowen Collieries on land of the West Buck Mountain Coal and Iron Company, Mammoth middle and top split, undated Notes: Associated map mining survey number: DR-2/2-15
Box 43, Item 1-4	Map of the Buck Mountain Coal Company lands and mines, Carbondale and Luzerne Counties, Pennsylvania, undated Notes: Associated map mining survey number: G-100-5
Box 43, Item 1-6	A map of the Buck Mountain Coal Company's mines, undated
Box 43, Item 1-7	Buck Mountain Coal Company property showing the railroads, plants, mines and the connection with Lehigh canal, undated Notes: Coxe Brothers classification number: Y36-11

Box 43, Item 1-8	Map of West Buck Mountain Coal and Iron Company's land in Luzerne, Schuylkill and Columbia counties, undated Notes: Coxe Brothers classification number: DR-1, 1-6
Box 43, Item 1-9	Map of West Buck Mountain Coal and Iron Company's land in Luzerne, Schuylkill and Columbia counties, undated Notes: Coxe Brothers classification number: DR-1, 1-6
Box 43, Item 1-10	Map of West Buck Mountain Coal and Iron Company's land in Luzerne, Schuylkill and Columbia counties, undated Notes: Coxe Brothers classification number: Y-14-6
Box 43, Item 1-11	Tracing of Map of West Buck Mountain Coal and Iron Company's land in Luzerne, Schuylkill and Columbia counties, undated Notes: Coxe Brothers classification number: DR-1, 1-6
Box 43, Item 1-12	Plan underground workings on the land of the West Buck Mountain Coal Company, undated Notes: Coxe Brothers classification number: DNV 4-5-4
Box 43, Item 1-13	Peringer and Gowen No. 4 collieries, Luzerne County, Pennsylvania, 1914, 1916, 1918, 1921
Box 43, Item 1-14	Map showing Buck Mountain vein workings covered by Abraham Scott tract, Jeddo No. 4 Colliery operated by G.B. Markle, 1910

Subseries 7.3: Mining Maps (2-), 1876-1935

Box 43, Item 2-1	Map of the Cross Creek Colliery, Luzerne County, Pennsylvania, 1879 Notes: Coxe Brothers classification number: DNV 7-7-2
Box 43, Item 2-2	Cross Creek Colliery, Slope No. 1, 1878 Notes: Coxe Brothers classification number: DNV 7-7-3
Box 43, Item 2-3	Map of Cross Creek Colliery, Slope No. 1 and 2, 1876
Box 43, Item 2-4	Loading tracks for iron breaker at Drifton, No. 2, undated Notes: Coxe Brothers classification number: DNV 35-17-1
Box 43, Item 2-5	Diagram of accident scene, 1914 Notes: Coxe Brothers classification number: D-1/11-1, 208; R-3-1; R-3-12
Box 43, Item 2-6	Reservations on Tench Coxe Estate, Drifton Property, 1931 Notes: Coxe Brothers classification number: D-1/15-1, 26
Box 43, Item 2-7	Machine Shops at Drifton, Pennsylvania, undated Notes: Coxe Brothers classification number: DNV 35-22-1

Box 43, Item 2-8	Self-Acting Bridge, top of Slope No. 2, undated Notes: Coxe Brothers classification number: DNV 7-16-6
Box 43, Item 2-9	Self-acting car dump for slope No. 3, undated Notes: Coxe Brothers classification number: DNV 7-16-5
Box 43, Item 2-10	Self-acting dump, top of breaker No. 2, undated Notes: Coxe Brothers classification number: DNV 7-16-4
Box 43, Item 2-11	Luzerne County, Drifton, Pennsylvania, post 1926 Notes: Coxe Brothers classification number: D-1/1-6
Box 43, Item 2-12	Drifton-Lattimore Mine road profile, undated Notes: Coxe Brothers classification number: DNV 7-8-1
Box 43, Item 2-13	Lattimore Property, undated Notes: Coxe Brothers classification number: G-1/1-30, 214
Box 43, Item 2-14	9 cross sections through Drifton Colliery operated by Coxe Bros. and Company, Inc, undated Notes: Coxe Brothers classification number: D-2/4-15, 210
Box 43, Item 2-15	Map of Drifton Colliery, valuation of properties, 1915 Notes: Coxe Brothers classification number: 2 (7)
Box 43, Item 2-16	Tracing of 400 foot map with borings and surface indications in continuation of Woodside Basin, undated Notes: Coxe Brothers classification number: DNV 7-16-3
Box 43, Item 2-17 A-C	Alignments of tracks and sidings at Drifton No. 2, 1897 Notes: Coxe Brothers classification number: R-47-4
Box 43, Item 2-18 A-B	Alignments of tracks and sidings at Drifton No. 2, 1897 Notes: Coxe Brothers classification number: R-47-4
Box 43, Item 2-19	Map showing cropping and Buck Mountain Vein, Drifton and Woodside Collieries in Hazle Township, undated Notes: Coxe Brothers classification number: D-2/15-2, 214
Box 43, Item 2-20	Map of slope No. 4 workings, Estate of Tench Coxe, Beaver Meadow Collieries, Buck Mountain vein, 1908 Notes: Coxe Brothers classification number: 1455
Box 43, Item 2-21	Map of Woodside slope, 1931 Notes: Coxe Brothers classification number: R 3-5
Box 43, Item 2-22	Map of Mammoth Vein workings in Greenfield and Temperance Basins, Beaver Meadow Collieries, accessible for surveys of old workings of 1830 to 1864, 1909 Notes: Coxe Brothers classification number: BM-2/2-27, 68

AC Scan: AC1002-0000018

Box 43, Item 2-23	Plan of Drifton No. 2 with levels of eventual drains, undated Notes: Coxe Brothers classification number: D-1/14-1, 208
Box 43, Item 2-24	Map showing cropping of Mammoth Vein in Hazle Township, undated Notes: Coxe Brothers classification number: D-2/15-1
Box 43, Item 2-25	Map showing cropping of Wharton Vein in Hazle Township, undated Notes: Coxe Brothers classification number: D-2/15-1, 214
Box 43, Item 2-26	Map showing cropping of Mammoth Vein in Hazle Township, undated Notes: Coxe Brothers classification number: D-2/15-1, B
Box 43, Item 2-27	Map showing cropping of Wharton Vein in Hazle Township, undated Notes: Coxe Brothers classification number: D-2/15-1, C
Box 43, Item 2-28	Sketch showing route of locomotive roads west of the Drifton Colliery, 1922 Notes: Coxe Brothers classification number: D-1/9-2
Box 43, Item 2-29	Drifton slope No. 1, Mammoth Vein middle split, 1913 Notes: Coxe Brothers classification number: R-D-7
Box 43, Item 2-30	Map of Drifton Colliery, valuation of properties, 1915 Notes: Coxe Brothers classification number: D-1/1-2
Box 43, Item 2-31 A-B	Map showing transportation roads and slopes, 1926 Notes: Coxe Brothers classification number: R-3-6-A
Box 43, Item 2-32	Posible change of North branch of Cross Creek east of machine shops and breaker No. 2, Drifton, undated Notes: Coxe Brothers classification number: R-47-7
Box 43, Item 2-33	Map showing standard and narrow gauge tracks in vicinty of Cross River, 1926 Notes: Coxe Brothers classification number: V-41-22
Box 43, Item 2-34	Plan of tracks, Lehigh Valley Railroad in vicinty of Drifton, undated Notes: Coxe Brothers classification number: V-3-3-A
Box 43, Item 2-35	Map showing cropping of Buck Mountain Vein, Drifton and Woodside Collieries, undated Notes: Coxe Brothers classification number: R-40
Box 43, Item 2-36	Plan of Drifton shops showing buildings and numbers, undated
Box 43, Item 2-37	Northeast Wharton gangway, cross section showing use of board apparatus in carrying grade of new No. 7 plane, 1923 Notes: Coxe Brothers classification number: Y-4-22

Box 43, Item 2-38	Plan of dwellings and buildings at Drifton, Pennsylvania, 1923 Notes: Coxe Brothers classification number: R-3-6-A
Box 43, Item 2-39	Map of Drifton Colliery, valuation of properties, 1915 Notes: Coxe Brothers classification number: D-1/1-2, 201
Box 43, Item 2-40	Part of the property of the Mining and Mechanical Institute, showing improvements, 1915 Notes: Coxe Brothers classification number: D-1/3-9
Box 43, Item 2-41	Map showing trespass on Estate of Tench Coxe (James Lattimore warrant) by employees of G.B. Markle and Company at Harleigh, undated Notes: Coxe Brothers classification number: D-1/6-1 and d-1/6-1A
Box 43, Item 2-42	Highway right of way through Village of Drifton, 1935 Notes: Coxe Brothers classification number: D-1/8-3
Box 43, Item 2-43	Map showing location of tracks near [Broahex?], 1929 Notes: Coxe Brothers classification number: D-1/9-35
Box 43, Item 2-44	Track arrangement in general vicinity of Drifton [?] with locomotive data and assignments, 1933 Notes: Coxe Brothers classification number: D-1/9-39, 317
Box 43, Item 2-45	Surface reservation, Drifton property, Protestant Episcopal Church, 1932
Box 43, Item 2-46	Plan and profile of [?] in the Buck Mountain vein, Drifton No. 1 slope, undated Notes: Coxe Brothers classification number: D-2/3-5, 308
Box 43, Item 2-47	Workings of Jeddo-Highland Coal Company slope No. 7, James Lattimore Tract Estate of Tench Coxe, 1923 Notes: Coxe Brothers classification number: D-2/3-8
Box 43, Item 2-48	Bore hole logs, 1915 Notes: Coxe Brothers classification number: D-2/6-5
Box 43, Item 2-49	Method of measuring Gangway rock for rate sheets, 1930 Notes: Coxe Brothers classification number: D-2/11-1, Y-4-24
Box 43, Item 2-50	Bore hole logs, 1913 Notes: Coxe Brothers classification number: D-2/6-4, 310
Box 43, Item 2-51	Sketch log of Drifton No. 2, airshafft and surroundings, accident, 1911 Notes: Coxe Brothers classification number: D-2/14-1, Y-3-11
Box 43, Item 2-52	Plan and elevations of double and single toilets, Drifton Village, 1927 Notes: Coxe Brothers classification number: D-5/2-1

Box 43, Item 2-53	Drifton Property, undated
Box 43, Item 2-54	Drifton-Freeland Townsite, 1932 Notes: Coxe Brothers classification number: 302
Box 43, Item 2-55	Surface improvements at Drifton slope No. 2, undated Notes: Coxe Brothers classification number: DNV 7-3-8
Box 43, Item 2-56	Tracing of Drifton No. 1 and No. 2 machine shops and Woodside, showing railroads and principal mine workings, undated Notes: Coxe Brothers classification number: DNV 7-3-6
Box 43, Item 2-57	Waterlines in Drifton No. 1 and No. 2 , broader areas and townsite, undated Notes: Coxe Brothers classification number: R-36
Map-folder 104, Item 1930	General management of cone agitator piping, Beaver Meadow Chance Separator, 1930
Map-folder 104, Item 2-184	Plan of water lines, Beaver Meadow Chance Separator, 1930
Map-folder 104, Item 2-194	Elevations of water lines, Beaver Meadow Chance Separator 2-194, 1930
Map-folder 104, Item 2-197	Elevations of water lines, Beaver Meadow Chance Separator, 1930
Map-folder 104, Item 2-199	Elevations of Bent 8 and Bent L, Beaver Meadow Chance Separator 2-199, 1930
Map-folder 104, Item 2-201	Elevations of Bent 7 and Bent K, Beaver Meadow Chance Separator, 1930
Map-folder 104, Item 2-202	Elevations of Bent D and Bent E, Beaver Meadow Chance Separator, 1930
Map-folder 104, Item 2-203	Elevations of Bent 6 and Bent I, Beaver Meadow Chance Separator, 1930
Map-folder 104, Item 2-204	Sand storage, bin, sand pump and 16.0" diameter tank, foundation walls for Beaver Meadow Chance Separator, 1930
Map-folder 104, Item 2-205	Elevation of Bent F and J, Beaver Meadow Chance Separator, 1930
Map-folder 104, Item 2-227	Elevation of Bent F and J, Beaver Meadow Chance Separator, 1930

Map-folder 107	Duplicate drawings for Group 2, undated

Subseries 7.4: Mining Maps (3-), 1869-1923

Box 44, Item 3-1	Map showing railroad right away and land ownership for Nescopeck and Black Creeks. Railroad connects to Pennsylvania Railroad, undated Notes: Coxe Brothers classification number: DNV 27-5-1
Box 44, Item 3-2	Detail map and section of slope No. 4 Gowen, undated Notes: Coxe Brothers classification number: DNV 4-9-1
Box 44, Item 3-3	Pieces of a map, slopes and mining plans, undated Notes: Coxe Brothers classification number: DNV 4-9-2 and DNV 4-9-3
Box 44, Item 3-4	Detail map of surface developments at Gowen Colliery, undated Notes: Coxe Brothers classification number: DNV 4-8-1
Box 44, Item 3-5	Sections of coal views according to recent developments 2900 feet east of westline of James McNeal tract., 1884, 1902 Notes: Coxe Brothers classification number: DNV 4-4-7
Box 44, Item 3-6	Map of underground workings at Gowen Colliery, undated Notes: Coxe Brothers classification number: DNV 4-3-14
Box 44, Item 3-7	Section of DD bore holes No. 50-51-53, 1911 Notes: Coxe Brothers classification number: DNV 4-3-11
Box 44, Item 3-8	Map of West Buck Mountain coal camp property showing coal basin and general topography, undated Notes: Coxe Brothers classification number: DNV 4-3-10
Box 44, Item 3-9	West Buck Mountain Coal and Iron Company Collieries, out-crop of coal basin in Columbia County, 1911 Notes: Coxe Brothers classification number: DNV 4-3-13
Box 44, Item 3-10	Gowen, proposed location of Breaker and Branch Road from the Danville, Wilkes-Barre, Hazleton Railroad, 1869 Notes: Coxe Brothers classification number: DNV 4-3-5
Box 44, Item 3-11	Section of line modified AB on plans from Black Creek to north crop of conglomerate over [?] DD slope #4, 1885
Box 44, Item 3-12	Section of DD bore holes on west end of West Buck Mountain Coal and Iron Company basin, Columbia County, Pennsylvania, 1899 Notes: Coxe Brothers classification number: DNV 4-3-6
Box 44, Item 3-13	Section of Dam Drift Tunnel 2, undated Notes: Coxe Brothers classification number: DNV 4-3-4

Box 44, Item 3-14	Tracing of underground workings West Buck Mountain and Iron Company land in Schuylkill and Columbia Counties, Pennsylvania, 1911 Notes: Coxe Brothers classification number: DNV 4-5-10
Box 44, Item 3-15	Tracing of Big vein split workings on West Buck Mountain Coal and Iron Company land, Schuylkill County, 1911 Notes: Coxe Brothers classification number: DNV 4-5-11
Box 44, Item 3-16	Plan of [breast?] workings westside slope No. 3, Gowen, undated Notes: Coxe Brothers classification number: DNV 4-5-9
Box 44, Item 3-17	Portion of west side workings, Gowen slope No. 1 with contour lines to locate mouth or south crop tunnel and north counter tunnel, undated Image(s): Portion of westide workings, Gowen slope No. 1 with contour lines to locate mouth or south crop tunnel and north counter tunnel Notes: Coxe Brothers classification number: DNV 4-5-7 AC Scan: AC1002-0000005
Box 44, Item 3-18	Property lines of West Buck Mountain Coal Company, undated Notes: Coxe Brothers classification number: DNV 4-5-12
Box 44, Item 3-19	Plan of working south crop and westside slope No. 1 Gowen, 1886 Notes: Coxe Brothers classification number: DNV 4-5-8
Box 44, Item 3-20	Eastside slope No. 1 Gowen with breast levels, undated Notes: Coxe Brothers classification number: DNV 4-5-6
Box 44, Item 3-21	Underground workings, Gowen Collieries (James McNeal Warrant), Buck Mountain and Wharton veins, undated Notes: Coxe Brothers classification number: DR-2/2-1
Box 44, Item 3-22	Underground workings, Gowen Collieries (James McNeal Warrant), Buck Mountain and Wharton veins, undated Notes: Coxe Brothers classification number: DR-2/2-2
Box 44, Item 3-23	Deringer and Gowen No. 4 Collieries, Mammoth, Wharton and Buck Mountain Vein, Luzerne County, undated Notes: Coxe Brothers classification number: DNV 4-12-2
Box 44, Item 3-24	West Cross Creek Collieries, Gowen, Pennsylvania, undated Notes: Coxe Brothers classification number: DNV 4-12-1
Box 44, Item 3-25	West Cross Creek Collieries, Gowen, Pennsylvania, 1909 Notes: Coxe Brothers classification number: DNV 4-12-3
Box 44, Item 3-26	Gowen No. 1 and 3 slope, undated Notes: Coxe Brothers classification number: DNV 4-12-4
Box 44, Item 3-27	Tracing Gowen mine maps showing extension of workings, 1882

	Notes: Coxe Brothers classification number: DNV 4-5-3
Box 44, Item 3-28	Map of Cross Creek Collieries, Gowen, Pennsylvania showing top split of big vein, 1909
Box 44, Item 3-29	Cross section through coal basins developed on lands of West Buck Mountain Coal and Iron Company, Gowen, Pennsylvania, undated Notes: Coxe Brothers classification number: DR-2/4-17, 210
Box 44, Item 3-30	Map of West Cross Creek Collieries, Gowen, Pennsylvania showing bottom split of big view, 1909
Box 44, Item 3-31	Underground workings, Gowen Collieries on land of West Buck Mountain Coal and Iron Company, Buck Mountain vein, undated Notes: Coxe Brothers classification number: DR-2/2-21, G-87
Box 44, Item 3-32	Underground workings Gowen Colliery, James McNeal Warrant, Anspach, Stanton, and [Weightmen?] Wharrton vein, 1902 Notes: Coxe Brothers classification number: DR-2/2-19
Box 44, Item 3-33	Map of Gowen Colliery extension of workings, 1883 Notes: Coxe Brothers classification number: DNV 4-5-5
Box 44, Item 3-34	Map of Gowen No. 3 underground workings, Buck Mountain Vein, 1911 Notes: Coxe Brothers classification number: DR-2/2-22
Box 44, Item 3-35	Map of East section of Gowen slope No. 4 showing proposed location of Gowen shops No. 7, undated Notes: Coxe Brothers classification number: DNV 4-2-11
Box 44, Item 3-36	Underground workings, Gowen Collieries on land of the West Buck Mountain Coal and Iron Company, Mammoth view bottom split, undated Notes: Coxe Brothers classification number: DR-2/2-16
Box 44, Item 3-37	Underground workings, Gowen Collieries on land of the West Buck Mountain Coal and Iron Company, Wharton vein, undated Notes: Coxe Brothers classification number: DR-2/2-20
Box 44, Item 3-38	Green Mountain-Beaver Meadow lands traced from Friedrich Estate map, undated Notes: Coxe Brothers classification number: G-1/1-8, 301, Y-22-13
Box 44, Item 3-39	Projected grading of draft No. 2 Gowen, undated Notes: Coxe Brothers classification number: DNV 4-3-12 AC Scan: AC1002-0000003
Box 44, Item 3-40	Plan view sketches of various types of mining breasts, undated Notes: Coxe Brothers classification number: G-2/21-5
Box 44, Item 3-41	Method of measuring gangway rock, undated

	Notes: Coxe Brothers classification number: G-2/21-6, 317
Box 44, Item 3-42	Method of measuring coal mined, 1889 Notes: Coxe Brothers classification number: G-2/21-7, 317, Y-23-102
Box 44, Item 3-43	Method of outstanding costs, 1889, 1923 Notes: Coxe Brothers classification number: G-2/21-8, 317, Y-23-10d
Box 44, Item 3-44	Wage rates, 1889, 1923 Notes: Coxe Brothers classification number: G-2/21-9, Y-23-10c
Box 44, Item 3-45	Blueprint copes of 3-40 to 44 with 1923 prices inserted, undated
Map-folder 103, Item 3-46	Crossing of Creek Tunnel Railroad and Branch for breaker of Gowen, Pennsylvania, undated Notes: Coxe Brothers classification number: DNV 4-1-6
Box 44, Item 3-47	Crossing of Creek Tunnel Railroad and Branch for breaker of Gowen, Pennsylvania, undated Notes: Coxe Brothers classification number: DNV 4-1-7

Subseries 7.5: Mining Maps (4-), 1855-1950

Box 45, Item 4-1	Map of Eckley Collieries, Estate of Tench Coxe, 1928
Box 45, Item 4-2	Map of Eckley, Buck Mountain Collieries showing submerged areas and proposed drainage tunnels, 1913 Notes: Coxe Brothers classification number: E-2/13-3, G-21-1
Box 45, Item 4-3	Map of Eckley, Pouch Mountain Collieries showing submerged areas and proposed drainage tunnels, undated Notes: Coxe Brothers classification number: G-101-3
Box 45, Item 4-4	Tracing of Leisenring's map of workings at Eckley Colliery showing extension of workings about January 1886, undated Notes: Coxe Brothers classification number: DNV-8-5-2
Box 45, Item 4-5	Tracing of Council Ridge Colliery map for mine inspector showing extension for workings of 1879-1881, 1881 Notes: Coxe Brothers classification number: DNV-8-5-1
Box 45, Item 4-6	Moyer's tracing of Eckley underground workings for mine inspector, 1885 Notes: Coxe Brothers classification number: DNV-8-5-3
Box 45, Item 4-7	Map of buildings and houses at Eckley, undated Notes: Coxe Brothers classification number: E-1/2-2
Box 45, Item 4-8	Map of Eckley Village, undated

	Notes: Coxe Brothers classification number: R3-6
Box 45, Item 4-9	Tracing and blueprint, plan of tracks Eckley Branch of Delaware, Susquehanna and Schuylkill Railroad, 1911 Notes: Coxe Brothers classification number: DNV-8-5-4
Box 45, Item 4-10	Eckley Property, undated Notes: Coxe Brothers classification number: E-1/1-4
Box 45, Item 4-11	Sharps map of land on which Council Ridge Colliery is located, 1855 Notes: Coxe Brothers classification number: E-1/1-5, 208 AC Scan: AC1002-0000023
Box 45, Item 4-12	Buck Mountain Vein, Eckley and Council Ridge, undated
Box 45, Item 4-13	Eckley-Council Ridge, Coxe Brothers, Buck Mountain overlap sketches, undated Notes: Coxe Brothers classification number: CR-2/2
Box 45, Item 4-14	Section through airway, Eckley No. 10 near Eastern boundary line with preliminary grade line of slope No. 10 with alteration of surface tracks, undated Notes: Coxe Brothers classification number: R-46-1, E-2/4-2
Box 45, Item 4-15	Map of Buck Mountain tunnel No. 2, Eckley Colliery, 1899-1917
Box 45, Item 4-16	Map showing lands of Estate of Tench Coxe, deceased of Eckley Colliery subleased to Jeddo-Highland Coal Company by Coxe Brothers and Company, 1940 Image(s): Map showing lands of Estate of Tench Coxe, deceased of Eckley Colliery subleased to Jeddy-Highland Coal Company by Coxe Brothers and Company
Box 45, Item 4-17	Map showing Beaver Meadow property to be operated by Haddock Mining Company, 1940
Box 45, Item 4-18	Map of Deringer Property to Accompany Agreement, 1950
Box 45, Item 4-19	Map of underground workings, Buck Mountain No. 2 and No. 11 and western extension tracing R3-2525, 1908-1928 Notes: Coxe Brothers classification number: LVC No. 749' R3-2525
Box 45, Item 4-20	Eckley slope No. 6, map showing Wharton vein workings, 1913-1925 Notes: Coxe Brothers classification number: LVC 2504; R-E-3
Box 45, Item 4-21	Map of underground workings, Buck Mountain Slope No. 3, 1912-1928 Notes: Coxe Brothers classification number: LVC 764; R-E-5
Box 45, Item 4-22	Eckley Buck Mountain Collieries, Buck Mountain Slope No. 3-5 and 7, 1909-1928 Notes: Coxe Brothers classification number: R-E-6
Box 45, Item 4-23	Change of tracts at Eckley Colliery necessary to take Eckley, Buck Mountain coal to Drifton for preparation, 1909

	Notes: Coxe Brothers classification number: E-1/9-5, 207; Y-4-1-A
Box 45, Item 4-24	Map showing tracts at Stockton Colliery leased to Jeddo-Highland Coal Company, 1939
Box 45, Item 4-25	Map of Eckley underground workings [Gamma?] Vein, 1912 Notes: Coxe Brothers classification number: E-2/2-7, 29
Box 45, Item 4-26	Change of hoist at No. 6 slope, Eckley Colliery, undated Notes: Coxe Brothers classification number: E-1/9-2, 304; R-41
Box 45, Item 4-27	Map of accident scene, Frank Catone, 1923 Notes: Coxe Brothers classification number: CR-1/11-1, 306; Y-4-19
Box 45, Item 4-28	Jeddo drainage system, 1950 Notes: Coxe Brothers classification number: 221
Box 45, Item 4-29	Sketch showing township highway through Eckley Village, 1933
Box 45, Item 4-30	Council Ridge Property, undated Notes: Coxe Brothers classification number: CR-1/1-4
Box 45, Item 4-31	Plan and elevation, No. 6 slope Eckley, 1893 Notes: Coxe Brothers classification number: E-2/12-2, 211; Y-4-2
Box 45, Item 4-32	Eckley Colliery, locating of outside features in vicinity of Buck Mountain Road and Lehigh Valley Railroad cross over relative to collision of 1922, 1922 Notes: Coxe Brothers classification number: E-1/11-1, 305; Y-4-14
Box 45, Item 4-33	Map of part of Eckley workings, Slope No. 2 with proposed tunnel lines, undated Notes: Coxe Brothers classification number: E-2/3-3, 308; Y-4-3
Box 45, Item 4-34	Map showing boundary pillar between Hazlebrook and Eckley Colliery, undated Notes: Coxe Brothers classification number: E-2/7-1, 311; R-48-1-G
Box 45, Item 4-35	Sections through Porter Swamp stripping Hazlebrook Coal Company, undated Notes: Coxe Brothers classification number: E-2/9-3, 311; R45-13
Box 45, Item 4-36	Copy-section on line of proposed drainage tunnel at Buck Mountain from Laurel Run to No. 7 basin north (Eckley), 1933
Box 45, Item 4-37	Map and proposed stripping's west of present Buck Mountain strippings, Eckley Collieries, 1904 Notes: Coxe Brothers classification number: DNV 8-1-9
Box 45, Item 4-38	Mine workings Jeddo-Highland Coal Company lease H, Eckley No. 6 Gamma Vein, undated Notes: Coxe Brothers classification number: S-3-4810

Box 45, Item 4-39	Map showing location of rock in which waste and rubbish is burned by storekeeper, undated Notes: Coxe Brothers classification number: DNV-8-3-5
Box 45, Item 4-40	Profile of mine tracks at Eckley Breaker to load railroad cars for Hazleton Colliery, 1911 Notes: Coxe Brothers classification number: DNV 8-3-8
Box 45, Item 4-41	Eckley Slope No. 2 section 100 feet east of boundary line, undated Notes: Coxe Brothers classification number: DNV 8-3-3
Box 45, Item 4-42	Map of land from Eckley, south to Millos Station on Lehigh Valley Railroad, undated Notes: Coxe Brothers classification number: DNV 8-3-8
Box 45, Item 4-43	Township road leading from the Village of Eckley to a point on the Beaver Mountain-Buck Mountain Road, undated Notes: Coxe Brothers classification number: DNV 8-2-10
Box 45, Item 4-44	Plan of proposed streamline of Eckley No. 6 from central steam plant at Eckley, undated Notes: Coxe Brothers classification number: DNV 8-3-7

Subseries 7.6: Mining Maps (5-), 1893-1928

Box 46, Item 5-1	Underground workings, Slope No. 1, Oneida Collieries operated by Coxe Brothers and Company, undated Notes: Coxe Brothers classification number: DNV 1-7-2
Box 46, Item 5-2	Underground workings, Slope #3, Oneida Collieries, undated Notes: Coxe Brothers classification number: DNV 1-7-3
Box 46, Item 5-3	Undergroud workings, Slope #2, Oneida Collieries, undated Notes: Coxe Brothers classification number: DNV 1-7-4
Box 46, Item 5-4	Bottom of No. 4 slope and vicinity, Oneida No. 2 slope, undated Notes: Coxe Brothers classification number: DNV 1-7-5
Box 46, Item 5-5	Railroad trackage, undated
Box 46, Item 5-6	Oneida Breaker tracks and town plat, undated Notes: Coxe Brothers classification number: DNV 1-8-1
Box 46, Item 5-7	General map of Oneida, undated Notes: Coxe Brothers classification number: O-1/1-15, G-92-5
Box 46, Item 5-8	Oneida Colliery, mine working and surface features including topography, undated Notes: Coxe Brothers classification number: O-1/1-14, G-94-4

Box 46, Item 5-9	Transfer cage for shaft at Oneida No. 1, 1895 Notes: Coxe Brothers classification number: DNV 1-1-4 and -5 and -7
Box 46, Item 5-10	Position of stop-block and tracks for Oneida No. 1, slope hump, 1896 Notes: Coxe Brothers classification number: DNV 1-1-6
Box 46, Item 5-11	Plans for construction at wash house at Oneida No. 1, 1913
Box 46, Item 5-12	Deringer and Oneida dump car, capacity 101 cubic feet, 1893
Box 46, Item 5-13	Map of Oneida Slope No. 4 workings Buck Mountain vein, 1919-1922
Box 46, Item 5-14	Coal dump Oneida No. 1 Colliery, 1919
Box 46, Item 5-15	Gunboat dump, Oneida No. 8 Slope, 1910
Box 46, Item 5-16	Foundation plan and elevation of boiler house, Oneida No. 8 slope, 1917
Box 46, Item 5-17	Timber for dump car, 1899
Box 46, Item 5-18	Oneida "Colly" outside, undated Notes: Coxe Brothers classification number: -2/12-8, G94-4
Box 46, Item 5-19	Map of underground workings on Mammoth vein, Oneida North Basin, 1909-1910
Box 46, Item 5-20	Map of underground workings on Buck Mountain vein, Oneida South Basin, 1909-1916 Notes: Coxe Brothers classification number: 3-93-2
Box 46, Item 5-21	[Sheppton?] Oneida outside, undated
Box 46, Item 5-22	Wilgus Oneida Mine map, 1916
Box 46, Item 5-23	Map of underground workings Buck Mountain vein, Oneida North Basin, 1907-1917 Notes: Coxe Brothers classification number: B747
Box 46, Item 5-24	Map of Oneida slope No. 1 workings, Buck Mountain vein, 1913-1916 Notes: Coxe Brothers classification number: O-2/18-9
Box 46, Item 5-25	Plan of Oneida, undated Notes: Coxe Brothers classification number: P43-4, O-1/2-1, 203, 15-13
Box 46, Item 5-26	Original plan and section of proposed trestle crossings of Delaware, Susquehanna and Schuylkill Railroad, west of Oneida No. 1, undated Notes: Coxe Brothers classification number: DNV 1-6-1
Box 46, Item 5-27	Hoisting shaft of No. 3 Oneida, undated Notes: Coxe Brothers classification number: O-2/12-3, 213, R43-2

Box 46, Item 5-28	Section of main hoisting slope and Barney bridge foot of breaker No. 1 Oneida Collieries, undated Notes: Coxe Brothers classification number: DNV 1-1-1
Box 46, Item 5-29	Slope No. 2 Oneida, location of tunnel and adjoining portions of slopes and gangways, undated Notes: Coxe Brothers classification number: DNV 1-1-11 and 12
Box 46, Item 5-30	Map of Oneida Mine, 1905 Notes: Coxe Brothers classification number: O-1/1-3, 202
Box 46, Item 5-31	Oneida Colliery, Wharton vein, north basin, 1923-1928
Box 46, Item 5-32	West sheet, map of underground workings on Buck Mountain Vein, Oneida South Basin, 1909-1928
Box 46, Item 5-33	East sheet, map of underground workings on Buck Mountain Vein, Oneida South Basin, undated
Box 46, Item 5-34	Oneida 4 Colliery, showing eastern end of Buck Mountain Vein, 1921-1928 Notes: Coxe Brothers classification number: 2927-S-3
Box 46, Item 5-35	Oneida No. 1 Colliery top split, Mammoth Vein, 1925-1928
Box 46, Item 5-36	Oneida No. 1 Colliery, Gamma Vein, 1921-1928
Box 46, Item 5-37	Map of underground workings on Buck Mountain Vein, Oneida North Basin, 1910-1928
Box 46, Item 5-38	Oneida No. 4 Colliery, Gamma Vein, 1921-1928
Box 46, Item 5-39	Oneida No. 4 Colliery, Mammoth Vein, bottom, middle and top splits, 1921-1928 Notes: Coxe Brothers classification number: 2933-S-3
Box 46, Item 5-40	Oneida No. 3, top Gamma Vein, 1925-1928
Box 46, Item 5-41	Oneida No. 3, Primrose Vein, 1921-1928
Box 46, Item 5-42	Map of underground workings on Buck Mountain vein, Oneida South basin on Brown and other's land, 1909-1928
Box 46, Item 5-43	Oneida No. 3, Wharton view, 1925-1928 Notes: Coxe Brothers classification number: 2930-S-3
Box 46, Item 5-44	Oneida No. 4 Colliery, Wharton Vein, 1921-1928 Notes: Coxe Brothers classification number: 2930-S-3

Box 46, Item 5-45	Map of underground workings on Mammoth Vein, Oneida North Basin, Coxe and Tower property, 1909-1925
Box 46, Item 5-45	Oneida No. 3, top of Mammoth Vein, undated
Box 46, Item 5-46	Oneida No. 1, Mammoth Vein, bottom and middle splits, undated Notes: Associated mining map survey number: R-O-24
Box 46, Item 5-47	Oneida No. 3, Bottom Mammoth Vein, undated
Box 46, Item 5-48	Oneida No. 3 slope, bottom Gamma Vein, 1925-1928 Notes: Coxe Brothers classification number: S-2929
Box 46, Item 5-49	Map of Oneida Colliery lands, north and south of Oneida slope No. 3 workings, undated Notes: Coxe Brothers classification number: O-1/T-1, 2020, R-7-12
Box 46, Item 5-50	Tracing of Hoffman's map (1870-1871) of Oneida lands, undated Notes: Coxe Brothers classification number: O-1/1-4, R-43-12
Box 46, Item 5-51	Map of five tracts of land owned and controlled respectively by mess Tower, Brown and others on which slopes No. 2 and No. 3 workings of Oneida Colliery, undated Notes: Coxe Brothers classification number: R43-9
Box 46, Item 5-52	No title. Land ownership in East Union Township, undated Notes: Coxe Brothers classification number: O-1/1-5, 202, R43-3
Box 46, Item 5-53	Map showing Cross Creek Coal Company property at Oneida and slopes No. 2 and No. 3 coal basins, undated Notes: Coxe Brothers classification number: O-1/1-10, 208, R43-9-A
Box 46, Item 5-54	Oneida No. 6 Colliery stripping proposed flume across stripping, 1916 Notes: Coxe Brothers classification number: O-5/T-4, 217, Y7-19
Box 46, Item 5-55	Eastern Middle Coal Field mine sheets, 1916 Notes: Coxe Brothers classification number: R7-13
Box 46, Item 5-56	Map of underground workings on Wharton Vein, Oneida North Basin, Coxe and Tower property, 1910-1921
Box 46, Item 5-57	Oneida No. 4. showing conglomerate columnar [Dred Cove?], sections of BH, undated Notes: Coxe Brothers classification number: O-2/6-3, 211, R43-14
Box 46, Item 5-58	Map of underground workings on Mammoth Vein, Oneida North Basin, Coxe and Tower property, 1909-1917
Box 46, Item 5-59	Oneida Colliery, map proposed plan of railroad from Delaware, Susquehanna and Schuykill Railroad Station to tournout east of mule stable, undated

	Notes: Coxe Brothers classification number: O-1/9-6, 206, R7-15
Box 46, Item 5-59	General location map showing surface opening of the Oneida No. 3 drainage tunnel, undated
Box 46, Item 5-60	Section No. 3 on line of borings near boundary line between James Smith and [Chris Trexet?], undated Notes: Coxe Brothers classification number: O-2/T-8, 310, Y7-1-D
Box 46, Item 5-61	Lands of Coxe-Tower-Brown and Others, Oneida lease, undated Notes: Coxe Brothers classification number: O-1/1-11, 301, Y-22-12

Subseries 7.7: Mining Maps (6-), 1856-1941

Box 39, Item 6-1	Copied from a "connected official draft" certified December 13, 1890, copy of a survey of warrants of June 13, 1793, 1891 Notes: Coxe Brothers classification number: O-1/4-3, Y7-5-H
Box 39, Item 6-2	Oneida Property, Coxe Brothers and Company, undated Notes: Coxe Brothers classification number: O-1/1-17
Box 39, Item 6-3	Oneida No. 1 Colliery, Gamma Vein, Engineering Department, Lehigh Valley Coal Company, Hazleton, Pennsylvania, 1921? Notes: Coxe Brothers classification number: O-2/2-38
Box 39, Item 6-4	Map of Oneida Collieries, Schuylkill County, Pennsylvania, undated Notes: Coxe Brothers classification number: O-1/12-1, 208, R43-(-B
Box 39, Item 6-5	Hoisting shaft at No. 3 Oneida, conditions as of 1892, 1892 Notes: Coxe Brothers classification number: O-2/12-3, 313, R43-2
Box 39, Item 6-6	Borings on Oneida Tower and Brown property to locate elevation of veins near basin, 1911 Notes: Coxe Brothers classification number: O-2/6-9, 312, Y7-B
Box 39, Item 6-7	Map of Oneida mine, 1915 Notes: Coxe Brothers classification number: O-1/1-3
Box 39, Item 6-8	Map of 4 foot gauge mine track between Sheppton Branch and Oneida No. 3 shaft, undated Notes: Coxe Brothers classification number: O-1/9-14, 304, Y7-2-13
Box 39, Item 6-9	Map showing settling ponds at Oneida Breaker, undated Notes: Coxe Brothers classification number: O-1/14-1, 307, Y-7-2-14
Box 39, Item 6-10	Necessary changes of tracks at Oneida No. 3 car loading in railroad car directly, 1911 Notes: Coxe Brothers classification number: O-1/9-16, 306, Y-7-2-A

Box 39, Item 6-11	Proposed dump and tracks near Oneida No. 4 shaft, details at dump point, 1913 Notes: Coxe Brothers classification number: O-1/9-3, 207
Box 39, Item 6-12	Proposed dump and tracks near Oneida No. 4, general layout, 1913
Box 39, Item 6-13	Pencil notes on estimated costs and benefits of proposed dump station, 1913
Box 39, Item 6-14	Map of Oneida Mine, 1919 Notes: Coxe Brothers classification number:O-1/1-9, 2020, R49-8
Box 39, Item 6-15	Rail connections between breaker and slopes, undated Notes: Coxe Brothers classification number: O-1/9-9, 207, R43-17
Box 39, Item 6-16	Oneida Village and Railroads connecting North and South Basin, 1915 Notes: Coxe Brothers classification number: O-1/9-13, 207, Y-7-16
Box 39, Item 6-17	Mine tracks at Oneida connecting slopes Nos. 2, 3, 4 and 6 with breaker, undated Notes: Coxe Brothers classification number: O-1/9-19, 304, Y-22-18
Box 39, Item 6-18	Report on examination of land's west of Green Mountain, 1856 Notes: Coxe Brothers classification number: O-1/1-13, 301, Y7-5-D
Box 39, Item 6-19	Oneida slope #4, section of line of subterranean slope #7, 1911 Notes: Coxe Brothers classification number: O-2/4-8, 307, Y7-1-F
Box 39, Item 6-20	Map of Oneida area, undated Notes: Coxe Brothers classification number: O-1/10-4, 306, Y23-23
Box 39, Item 6-21	Track arrangements for bottom of deep hoist of Oneida shaft No. 3, undated Notes: Coxe Brothers classification number: O-2/18-1, 314, R43-2-C
Box 39, Item 6-22	Route of Locie Road from Slope No. 8 to Slopes No. 4 and No. 6, 1922 Notes: Coxe Brothers classification number: O-1/9-22, 306, Y23-22
Box 39, Item 6-22	Sketch map to locate tunnel to drain, the underground workings on Trekel and Smith tracts, Oneida Colliery, undated Notes: Coxe Brothers classification number: O-1/3-12, 303, Y-7-3-B
Box 39, Item 6-23	Sketch of [?] of the Green Mountain lands showing compromise line, undated Notes: Coxe Brothers classification number: O-1/1-6, 301, R-43-G-A
Box 39, Item 6-24	Topographical sketch of lands on Green Mountain, 1872 Notes: Coxe Brothers classification number: Y-36-9-A
Box 39, Item 6-25	Plan of dwellings and buildings at Oneida located on Trexel and Smith warrants, undated Notes: Coxe Brothers classification number: O-1/4-2, 303, R-7-16

Box 39, Item 6-26	Map of Coxe and Tower lands, undated Notes: Coxe Brothers classification number: O-1/4-4, 303, Y-7-5B
Box 39, Item 6-27	Tracing of Hoffman map of the Coxe and Tower Tracts, undated Notes: Coxe Brothers classification number: O-1/4-5, 303, Y-7-5-C
Box 39, Item 6-28	Map showing present tracks and connections at Oneida Slope #4, undated Notes: Coxe Brothers classification number: O-1,/9-15, 305, Y-7-2
Box 39, Item 6-29	Lands of Coxe-Tower-Brown and others, Oneida lease showing compromise line, undated Notes: Coxe Brothers classification number: O-1/1-10, 301, Y-7-5-G
Box 39, Item 6-30	Oneida breaker and surroundings, undated Notes: Coxe Brothers classification number: O-1/12-2, 308, Y-7-2-E
Box 39, Item 6-31	Map showing Oneida slopes 1-4-8 and proposed site of new boiler house, undated Notes: Coxe Brothers classification number: O-1/12-3, 308, Y-7-4-G
Box 39, Item 6-32	Map showing veins above present workings to determine the plan of opening to mountain output from James Smith warrant, undated Notes: Coxe Brothers classification number: O-2/3-2, 307, Y-7-4-A
Box 39, Item 6-33	Map of Lehigh & Wilkes-Barre Coal Company, Green Mountain workings, undated Notes: Coxe Brothers classification number: O-2/3-3, Y-22-20
Box 39, Item 6-34	Map of proving's on Peter Schwartz-Roger Beatty warrants and conglomerate on Cochran, undated Notes: Coxe Brothers classification number: O-2/6-1, 0-2/6-1, R43-5A and 5B
Box 39, Item 6-35	Bore holes 201 and 202, logs, Oneida No. 3, 1913 Notes: Coxe Brothers classification number: O-2/6-13 and O-2/6-13, 317
Box 39, Item 6-36	Frame for deep hoist compartment at Oneida No. 3 shaft, 1907 Notes: Coxe Brothers classification number: O-2/12-2, 314, R43-2-B
Box 39, Item 6-37	Map of tunnel in face of No. 1 East gangway slope No. 4, Oneida in its relative position to diamond drill borings Notes: Coxe Brothers classification number: O-2/12-6, 314
Box 39, Item 6-38	Oneida Slope No. 1, first lift tracks at bottom, undated Notes: Coxe Brothers classification number: O-2/18-3, 315, Y-7-2-C
Box 39, Item 6-39	Oneida underground transportation, 1928 Notes: Coxe Brothers classification number: O-2/18-4, 5 and 6; 314, 315
Box 39, Item 6-40	Slope No. 1, Oneida, condition of bottom of main hositing slope, dump, new tunnel, 1892

	Notes: Coxe Brothers classification number: DNV 1-2-13
Box 39, Item 6-41	Plan of surface tracks and section of Oneida slope No. 6 (Barney hoist), undated Notes: Coxe Brothers classification number: DNV 1-3-6
Box 39, Item 6-42	Section on line of [?] Slope No. 5, Oneida No. 3 Colliery, undated Notes: Coxe Brothers classification number: DNV 1-3-7
Box 39, Item 6-43	Section of line of Oneida breaker slope showing proposed improvements, 1892 Notes: Coxe Brothers classification number: DNV 1-3-11
Box 39, Item 6-44	Proposed trestle crossing the [Delaware, Lehigh Railroad] west of Oneida No. 1, undated Notes: Coxe Brothers classification number: DNV 1-6-2
Box 39, Item 6-45	Trestle for town supply of coal Oneida breaker, undated Notes: Coxe Brothers classification number: DNV 1-6-4
Box 39, Item 6-46	Bridge over Tomhicken Creek East of Oneida, undated Notes: Coxe Brothers classification number: DNV 1-4-17
Box 39, Item 6-47	Sluice for Drech Crede Dam, undated Notes: Coxe Brothers classification number: R-36
Box 39, Item 6-47	Oneida drainage tunnel, undated Notes: Coxe Brothers classification number: DNV 1-4--3, 4 and 5
Box 39, Item 6-48	6 pipeline from hosit engine at Oneida Slope No. 1 to hoisting engines at new slope; Plan and profile showing crossing of steamline under Oneida"Y", undated Notes: Coxe Brothers classification number: DNV 1-4-7 and 10
Box 39, Item 6-49	Map of underground workings, Oneida Slope No. 3 and geologic section of veins, 1890s Notes: Coxe Brothers classification number: DNV 1-4-11
Box 39, Item 6-50	Bottom of slope No. 6, Oneida No. 3, undated Notes: Coxe Brothers classification number: DNV 1-4-12
Box 39, Item 6-51	Area of proposed 1200 horse power boiler plant, undated Notes: Coxe Brothers classification number: DNV 1-4-6
Box 39, Item 6-52	Coal bins at boiler house, undated Notes: Coxe Brothers classification number: DNV 1-4-16
Box 39, Item 6-53	Plan of tracks West of Oneida breaker and present slate track with prposed extension westward, undated Notes: Coxe Brothers classification number: DNV 1-4-2
Box 39, Item 6-54	Profile along sawmill siding, undated

	Notes: Coxe Brothers classification number: DNV 1-4-13
Box 39, Item 6-55	Plan and profile showing crossing streamline under Oneida "Y" Oneida Branch Notes: Coxe Brothers classification number: DNV 1-4-9
Box 39, Item 6-56	Onedia Pennsylvania print showing houses and water lines, 1921, 1935 Notes: Coxe Brothers classification number: O-1/2-2
Box 39, Item 6-57	Plat of Oneida Village, 1941
Box 39, Item 6-58	MISSING Map of Oneida Collieries showing steam, air and water lines from Artesian wells of slopes No. 1 and No. 2, undated Notes: Coxe Brothers classification number: DNV 1-4-8

Subseries 7.8: Mining Maps (7-), 1830-1882

Box 41, Item 7-1	Connected map of collieries on the Girard Estate, undated
Box 41, Item 7-2	Map of Girard Estate lands belonging to the City of Philadelphia and interferring new warrants, 1861
Box 41, Item 7-3	Map of Girard Estate lands belonging to the City of Philadelphia and interferring new warrants, undated
Box 41, Item 7-4	Map of Girard lands bequeathed to the City of Philadelphia by the late Stephen Girard, 1861
Box 41, Item 7-5	Maps of tracks of land (53 tracts), 1830
Box 41, Item 7-6	MISSING Draft of 11,000 acres of land and coal land in the Hazleton and Beaver Meadow or land anthracite coal field…Estate of John Hare Powel, Esq., 1845 Notes: Coxe Brothers classification number: 10
Box 41, Item 7-7	Map of lands purchased by Stephen Girard from the trust of the late Bank of the United States, resurveyed June 1830, 1912
Box 41, Item 7-8	Geological and topographical map of part of the Girard Estate lands belonging to the City of Philadelphia, undated Notes: Coxe Brothers classification number: Map 126, Box 91
Box 41, Item 7-9	Section pillar under Mahoney Plane, 1882 Notes: Coxe Brothers classification number: Map 437
Box 41, Item 7-10	Large stove coal separator for Philadelphia Coal Company, No. 3, undated Notes: Coxe Brothers classification number: Map 120, Box 56

Subseries 7.9: Mining Maps (8-), 1925

Box 41, Item 8-1	MISSING Photocopy of a map and profile of Mount Pisgah, back track and survey of summit railroads. Also the line of the proposed Panther Creek Railroad, 1845
Box 41, Item 8-2	MISSING Map of lands purchased by Stephen Girard from the trustee of the late Bank of the United States. Resurveyed in 1830 and certified by one of the surveyors, Charles Schlater, in 1876, undated
Box 41, Item 8-3	MISSING Cross section on line D, 1925
Box 41, Item 8-4	Section of coal measures, Panther Creek Valley, on line of Lansford Tunnel, undated

Subseries 7.10: Mining Maps (9-), 1882-1936

Box 47, Item 9-1	Commerce and reference maps of Lackawanna County. Also includes statistical information, 1931
Box 47, Item 9-2	Map of Anthracite coal fields of Pennsylvania with their outlets to market, 1886
Box 47, Item 9-3	Map of Foster Township, Luzerne County, Pennsylvania, 1897 Notes: Coxe Brothers classification number: G-1/8-5
Box 47, Item 9-4	Map of Hazle Township. Luzerne County, Pennsylvania, 1897 Notes: Coxe Brothers classification number: G-1/1-23
Box 47, Item 9-5	Tracing of South East part of Luzerne County from Sturdevant's Luzerne County map, undated Notes: Coxe Brothers classification number: G-1/1-2, R-33-7
Box 47, Item 9-6	Township maps, 1936 Notes: Includes maps for the following townships: Dallas, Franklin, Buck, Bear Creek, Huntington, Hollenback, Denison, Black Creek, Nescopeck, Lehman, Lake, Kingston, Hanover, Foster, Fairmount, Exeter, Dorrance, Hazle, Sugarloaf, and Butler.
Box 47, Item 9-7	Warrantee maps without courses or distances of parts of Hazle, Foster, and Black Creek Townships and Carbon County furnished by Mr. McNair, undated Notes: Coxe Brothers classification number: O-1/4-1, 204, R-32-8
Box 47, Item 9-8	Photocopies of map of Pennsylvania showing political changes from pre-statehood to 1855-1931
Box 47, Item 9-9	Surface features of Eastern Middle Coal Field, undated
Box 47, Item 9-10	Copy of Eastern Middle Coal Field, mine through VII and VIII, geological survey of Pennsylvania, 1888

	Notes: Coxe Brothers classification number: BM-1/12-10
Box 47, Item 9-11	MISSING Early development of the Beaver Meadow property, 1933 Notes: Coxe Brothers classification number: BM-1/12-10
Box 47, Item 9-12	Sketch map of water courses and ridges between Conyngham and Gowen, undated Notes: Coxe Brothers classification number: M-1/5-1, 303
Box 47, Item 9-13	Location of Delaware, Susquehanna Railroad, undated Notes: Coxe Brothers classification number: M-1/9-2
Box 47, Item 9-14	Map of Hazle Township, Luzerne County, Pennsylvania, 1908
Box 47, Item 9-15	General map of Anthracite Coal Fields of Pennsylvania showing the position of each colliery, 1920 Notes: Coxe Brothers classification number: G-1/1-29, 318
Box 47, Item 9-16	Cross section through John Veith [property?], 1921
Box 47, Item 9-17	Geological and topographial map of New Boston and New Morea coal lands, 1889
Box 47, Item 9-18	Second geological survey of Pennsylvania, Atlas Northern Anthracite field, 1884
Box 47, Item 9-19	Geological survey of Pennsylvania, Eastern Middle Coal Field, 1888-1889
Box 47, Item 9-20	Geological survey of Pennsylvania, Eastern Middle Coal Field, 1888-1889
Box 47, Item 9-21	MISSING Second geological survey of Pennsylvania, general sections, Eastern Middle Coal Field, 1884, 1889
Box 47, Item 9-22	Second geological survey of Pennsylvania, columnar sections, Eastern Middle Coal Field, 1884, 1889
Box 47, Item 9-23	General Map of the Anthracite Coal Fields of Pennsylvania and map showing railroad outlets of the anthracite coal regions of Pennsylvania, 1886
Box 47, Item 9-24	Columnar sections of anthracite coal measures showing relationship of coal beds in areas mapped by survey, 1886 Notes: Coxe Brothers classification number: D-4
Box 47, Item 9-25	General columnar sections showing the relationship of coal beds, 1893 Notes: Coxe Brothers classification number: G-5
Box 47, Item 9-26	Statistics, anthracite region for 1882 and 1883, list of working mines with total production in tons, 1882-1883 Notes: Rolled with 9-27
Box 47, Item 9-27	Diagram and tables showing annual production of anthracite coal in Pennsylvania since 1820 together with tonnage of the transporting (1880), 1882

	Notes: Rolled with 9-26
Box 47, Item 9-28	MISSING Luzerne County Township Maps, undated Notes: Consists of 23 maps. See map 9-6.

Subseries 7.11: Mining Maps (10-), 1869-1918

Box 40, Item 10-1	Map of Girard Estate in Schuylkill and Columbia Counties, Pennsylvania belonging to the City of Philadelphia trustees, 1889 Notes: Coxe Brothers classification number: 1090 Box 66
Box 40, Item 10-2	Tracing of Pennsylvania Railroad tracks between Rock Glen and Nascopeck, undated Notes: Coxe Brothers classification number: T-1
Box 40, Item 10-3	Plans of Woodside addition with alignment of Freeland and Highland Branch of Lehigh Valley Railroad, 1888 Notes: Coxe Brothers classification number: D-1/2-6, G104-4
Box 40, Item 10-4	Plans of Woodside addition with alignment of Freeland and Highland Branch of Lehigh Valley Railroad, 1888 Notes: Coxe Brothers classification number: D-1/2-6, G104-4-B
Box 40, Item 10-5	Plans of Woodside addition with alignment of Freeland and Highland Branch of Lehigh Valley Railroad, 1888 Notes: Coxe Brothers classification number: D-1/2-6, G104-4-A
Box 40, Item 10-6	Map of Philadelphia and Reading Railroad and various branches under its control, 1869 Notes: Coxe Brothers classification number: M-1/9-16
Box 40, Item 10-7	Stockton ground vein workings and land condemned by Lehigh Valley Railroad Company in 1918 for Ashmore Terminal Site, 1918
Box 40, Item 10-8	Right of way and details of Ashmore Terminal, undated
Box 40, Item 10-9	Map showing lands, railroads and collieries in the Middle Anthracite coal fields between Trevorton and Hazleton, 1908
Box 40, Item 10-10	Lehigh Valley Railroad, Lehigh Division, Hazleton Branch, stations and mileage, 1933
Box 40, Item 10-11	Lehigh Valley Railroad Division, map of Wyoming Coal Region showing routes and distances from collieries, 1912 Notes: Coxe Brothers classification number: Map K272, Wyoming Division
Box 40, Item 10-12	Lehigh Valley Railroad tracks in vicinity Stockton and Hazleton Brook breakers, undated

Box 40, Item 10-13	Location of Delaware, Susquehanna and Schuylkill Railroad, undated Notes: Coxe Brothers classification number: M-1/9-2
Box 40, Item 10-14	Two graphs, Wilkes-Barre and Hazleton Railroad and Lehigh Traction Company showing financial results of operations before [?] and the Depression years 1928-1929, 1928 Notes: Coxe Brothers classification number: M-1/9-2, 301
Box 40, Item 10-15	Sketch map showing Lehigh Valley Railroad and Delaware, Susquehanna, and Schuylkill Railroad, 1892, location in reference to property lines, 1892
Box 40, Item 10-16	Design drawing for railroad special [fish?] plates for 60 and 80 pound rod, undated Notes: Coxe Brothers classification number: DNV-27-11-1
Box 40, Item 10-17	Design drawing for railroad special [fish?] plates for 60 pound rail, undated Notes: Coxe Brothers classification number: DNV 27-11-5
Box 40, Item 10-18	Design drawing for railroad 40 foot steel rail and splice plate, undated Notes: Coxe Brothers classification number: DNV 27-11-8
Box 40, Item 10-19	Design drawing for railroad angle plates for 30, 40 and 60 pound rails, undated Notes: Coxe Brothers classification number: DNV 27-11-6
Box 40, Item 10-20	Design drawing for standard splice for 30 foot steel railroad rail, undated Notes: Coxe Brothers classification number: DNV 27-11-9
Box 40, Item 10-21	Design drawing for railroad fish plates and angle plates for 60 pound rail, undated Notes: Coxe Brothers classification number: DNV 27-11-7
Box 40, Item 10-22	Design drawing for railroad fish plate for 60 pound rail, undated Notes: Coxe Brothers classification number: DNV 27-11-2
Box 40, Item 10-23	Design drawings for railroad fish plates and angle plates for 30 pound rails, undated Notes: Coxe Brothers classification number: DNV 27-11-3
Box 40, Item 10-24	Design drawings for railroad splice plate for 30 pound rail, undated Notes: Coxe Brothers classification number: DNV 27-11-4

Subseries 7.12: Mining Maps (11-), undated

Box 42, Item 11-1	Beaver Meadow contour and surface features, undated
Box 42, Item 11-2	Beaver Meadow drainage tunnel map, undated Notes: Coxe Brothers classification number: BM-2/13-9, G95-1
Box 42, Item 11-3	Cross sections through Beaver Meadow underground workings showing interconnection with drainage tunnel into Quakake Valley, undated

	Notes: Coxe Brothers classification number: BM-2/13-10, G95-3
Box 42, Item 11-4	Map of Quakake Creek between mouth of Beaver Meadow drainage tunnel and Black Creek Junction, undated Notes: Coxe Brothers classification number: BM-2/13-4, R44-12
Box 42, Item 11-5	Old map showing projected railroad to open mines at Stafford, branching off Beaver Meadow, undated Notes: Coxe Brothers classification number: DNV 10-2-9
Box 42, Item 11-6	Beaver Meadow, No. 2 outside, undated Notes: Coxe Brothers classification number: BM-1/12-30, G91-13
Box 42, Item 11-7	Tracing of original Lesley Map of Beaver Meadow and vicinity, undated Notes: Coxe Brothers classification number: BM-1/5-1, 204, R44-4
Box 42, Item 11-8	Mining development by veins, undated Notes: Coxe Brothers classification number: BM-2/2-36 to 2-40
Box 42, Item 11-9	Beaver Creek mining development and surface features including townside, 1910
Box 42, Item 11-10	Map of Slope No. 1 and No. 2 workings, Beaver Meadow Collieries, 1887-1900 Notes: Coxe Brothers classification number: BM-2/2-2, G3-1-A
Box 42, Item 11-11	Beaver Meadow No. 4 underlap Buck, 1919 Notes: Coxe Brothers classification number: BM-2/2-18, 59
Box 42, Item 11-12	Plan of Beaver Meadow underground workings with proposed drainage tunnel to Quakake Valley, undated Notes: Coxe Brothers classification number: BM-2/13-2, 213, G96-7
Box 42, Item 11-13	Beaver Meadow Property, 1918 Notes: Coxe Brothers classification number: BM-1/1-1
Box 42, Item 11-14	Coxe Brothers and Company, Inc. valuation map of Beaver Meadow Colliery, 1915 Notes: Coxe Brothers classification number: BM-1/1-4
Box 42, Item 11-15	Old Temperance and Greenfield workings, Beaver Meadow Collieries, Cross Creek Coal Company, 1911 Notes: Coxe Brothers classification number: BM-2/2-33, G91-1-1-B
Box 42, Item 11-16	Old Temperance and Greenfield workings, Beaver Meadow Collieries, Cross Creek Coal Company, 1913-1915 Notes: Coxe Brothers classification number: BM-2/3-14
Box 42, Item 11-17	Old Temperance and Greenfield workings, Beaver Meadow Collieries, Cross Creek Coal Company, 1898-1910 Notes: Coxe Brothers classification number: BM-2/2-32, G6-1-C

Box 42, Item 11-18	Map of Slope No. 4 workings, Beaver Meadow Collieries, Wharton Vein, 1910-1915
Box 42, Item 11-19	Map of No. 4 workings, Beaver Meadow Collieries, Gamma Vein, 1910-1915
Box 42, Item 11-20	Map of Slope Nos. 1 and 2 workings, Beaver Meadow Collieries, Wharton Vein, 1911-1913 Notes: Coxe Brothers classification number: BM-2/2-1
Box 42, Item 11-21	Map of Slope Nos. 1 and 2 workings, Beaver Meadow Collieries, 1898-1924
Box 42, Item 11-22	Map showing cropping of Wharton Vein, Beaver Meadow Collieries, undated Notes: Coxe Brothers classification number: BM-2/15-3, 214, R44-7A and R-44-7
Box 42, Item 11-23	Collection of maps and reserve tonage calculation for Beaver Meadow, Oneida, and all Coxe holdings, 1905
Box 42, Item 11-24	Map showing croppings of Buck Mountain Vein, Beaver Meadow Colliery, undated Notes: Coxe Brothers classification number: BM-2/15-5, 214, R44-7-C
Box 42, Item 11-25	Map showing croppings of Gamma Vein, Beaver Meadow Colliery, undated Notes: Coxe Brothers classification number: BM-2/15-4, 214, R44-7-B
Box 42, Item 11-26	Map of No. 4 Slope, Beaver Meadow, undated
Box 42, Item 11-27	Print showing proposed timber yard and standard gauge timber track, Beaver Meadow Colliery, 1926 Notes: Coxe Brothers classification number: BM-1/9-1, 207
Box 42, Item 11-28	Plan and section of flume to be used in Creek Channel at Beaver Meadow No. 8, 1926 Notes: Coxe Brothers classification number: BM-1/9-2, 304
Box 42, Item 11-29	Plan and agreement between Lehigh Valley Railroad Company and Coxe Brothers Company, Inc. governing use of certain part of the Lehigh Valley Railroad Company Evans Colliery Branch, undated Notes: Coxe Brothers classification number: BM-1/9-5, 304
Box 42, Item 11-30	Beaver Meadow Colliery connection of Evans Colliery Branch of Lehigh Valley Railroad with Delaware, Susquehanna and Schuylkill Railroad, Beaver Meadow Branch, 1911 Notes: Coxe Brothers classification number: BM-1/9-13, 306
Box 42, Item 11-31	Beaver Meadow Colliery, sketch showing route of Locie Road from branches to slopes No. 2, 6, and 7, 1922 Notes: Coxe Brothers classification number: BM-1/9-16, 306
Box 42, Item 11-32	Railroad track elevations breaker area and No. 4 slope area, undated

	Notes: Coxe Brothers classification number: BM-1/12-5
Box 42, Item 11-33	Plan and sections, 20W Buck Mountain, No. 4 Slope Beaver Meadow, undated Notes: Coxe Brothers classification number: BM-2/3-9, Y-5-26
Box 42, Item 11-34	Plan view of mining method showing how coal was mined in pillar system, undated Notes: Coxe Brothers classification number: BM-2/11-1, 212, R5-3
Box 42, Item 11-35	Beaver Meadow Colliery, map showing pan and section of proposed pump house and rock hole from No. 7 type breaker, 1930 Notes: Coxe Brothers classification number: BM-2/12-10, 320
Box 42, Item 11-36	Plan and sections of proposed dams at foot of No. 2 slope, 1927 Notes: Coxe Brothers classification number: BM-2/13-1
Box 42, Item 11-37	Map of Quakake Creek between mouth of Beaver Meadow drainage tunnel and Black Creek Junction, 1906 Notes: Coxe Brothers classification number: BM-2/13-4, 313, R44-12
Box 42, Item 11-38	Map showing croppings of Mammoth Vein, Beaver Meadow Colliery, undated Notes: Coxe Brothers classification number: BM-2/15-2, 214, R-44-7
Box 42, Item 11-39	No. 2 slope, proposed changes in bottom tracks, 1915 Notes: Coxe Brothers classification number: BM-2/18-2
Box 42, Item 11-40	Flow sheet of Beaver Meadow breaker, includes labor force required to prepare coal, 1926-1927 Notes: Coxe Brothers classification number: BM-6/5, 218
Box 42, Item 11-41	Map and streams and improvements in territory of Beaver Meadow Water Company, undated
Box 42, Item 11-42	Beaver Meadow Property, undated Notes: Coxe Brothers classification number: BM-1/1-7
Box 42, Item 11-43	Copy of map made in early forties showing mines opened in the vicinity of Beaver Meadow, 1933
Box 42, Item 11-44	Beaver Meadow Colliery, [Loco?] Road from breaker tracks to NE Greenfield stripping, undated Notes: Coxe Brothers classification number: BM-1/9-6, 205, R44-13
Box 48, Item 11-45	Beaver Meadow Colliery and property cross sections B-B, D-D, F-F, undated
Box 48, Item 11-46	Beaver Meadow Colliery-Beaver Meadow Property-Buck Mountain Vein, 1915
Box 48, Item 11-47	Plans of buildings and dwellings on several Coxe properties, 1912-1928

Box 48, Item 11-48	Wilgus Beaver Meadow mine map, 1916
Box 48, Item 11-49	MISSING Alteration of shaker, rearrangement, broken to Barley inclusive, 1925
Box 48, Item 11-50	Sections of breaker, Cross Creek Coal Company, Beaver Meadow Colliery, 1919
Box 48, Item 11-51	Machinery plan, remodeling Beaver Meadow Breaker, 1914
Box 48, Item 11-52	Beaver Meadow No. 2, Barney pit No. 2 lift, 1902 Notes: Coxe Brothers classification number: 2625-Z, C-473
Box 48, Item 11-53	Section in front of Bent #5 looking north, 1919 Notes: Coxe Brothers classification number: 226-E
Box 48, Item 11-54	MISSING Part section showing new Wilmot jigs, Beaver Meadow Breakers, 1919 Notes: Coxe Brothers classification number: R-226-Q
Box 48, Item 11-55	Wash house to accommodate 50 men, 1926 Notes: Coxe Brothers classification number: LVCCO 171-12
Box 48, Item 11-56	Compressor House, 1917 Notes: Coxe Brothers classification number: LVCCO S-332
Box 48, Item 11-57	Fire room for Beaver Meadow Boiler House, 1916 Notes: Coxe Brothers classification number: LVCCO S-213
Box 48, Item 11-58	Beaver Meadow Boiler House, setting 250 horse power boiler, 1918 Notes: Coxe Brothers classification number: R-33
Box 48, Item 11-59	Proposed location of scale at Beaver Meadow Breaker and change of railroad tracks, 1911 Notes: Coxe Brothers classification number: BM-1/9-14, 305, Y-S-6-B
Box 48, Item 11-60	Section on line of Slope No. 4, undated Notes: Coxe Brothers classification number: BM-2/4-23, 309, Y-5-8-D
Box 48, Item 11-61	Beaver Meadow Slope No. 4 (Reeves Slope), undated Notes: Coxe Brothers classification number: BM-2/4-23
Box 48, Item 11-62	Section of Diamond drill holes drilled in 1899, 1911 Notes: Coxe Brothers classification number: BM-2/6-2, 310, Y-5-7-A
Box 48, Item 11-63	Logs of boreholes, No. 171, 172, 177, 178, Beaver Meadow No. 4, 1913 Notes: Coxe Brothers classification number: BM-2/6-6 to 6-9
Box 48, Item 11-64	Surface and Gamma, Buck Mountain, Wharton and Lykens vein, Hazleton Coal lands (LVCC), Beaver Meadow property, Coxe Brothers and Company, Inc., 1934 Notes: Coxe Brothers classification number: BM-2/10-3, 319

Box 48, Item 11-65	Map of Beaver Meadow Water Supply, undated Notes: Coxe Brothers classification number: 4-1/4, 316, R-14
Box 48, Item 11-66	Profiles of Beaver Meadow drainage tunnel, 1911 Notes: Coxe Brothers classification number: BM-2/13-7, 313, Y-5-3
Box 48, Item 11-67	Beaver Meadow Colliery, plan and sections of tracks near foot of No. 2 slope, 1930 Notes: Coxe Brothers classification number: BM-2/18-6, 315
Box 48, Item 11-68	Beaver Meadow Colliery, plan and section of No. 33 West Buck Mountain level No. 7 slope, 1930 Notes: Coxe Brothers classification number: BM-2/18-10
Box 48, Item 11-69	Beaver Meadow Colliery shed for unprepared coal, undated Notes: Coxe Brothers classification number: BM-5/1-1, 318, Y-5-13
Box 48, Item 11-70	Beaver Meadow Colliery Office, undated Notes: Coxe Brothers classification number: BM-5/1-2, 317, Y-25-6
Box 48, Item 11-71	Location of fire equipment, Beaver Meadow Colliery, 1928 Notes: Coxe Brothers classification number: BM-7/4-1, 317, R-6
Box 48, Item 11-72	Map of Beaver Meadow showing mine workings under Beaver Meadow [boro?] and surface featured, 1933 Notes: Coxe Brothers classification number: R-BM-10
Box 48, Item 11-73	MISSING Dreck Creek Reservoir, undated
Box 48, Item 11-74	Map of surface at Beaver Meadow, undated
Box 48, Item 11-75	Map showing plot of ground owned by Joseph Gooden in Beaver Meadow Borough, undated
Box 48, Item 11-76	Map showing Beaver Meadow Borough, undated
Box 48, Item 11-77	Map of Coleraine workings and impact on land controlled by Cross Creek Coal Company, undated Notes: Coxe Brothers classification number: DNV 17-23-11
Box 48, Item 11-78	Map of Wharton workings at Coleraine Slope Nos. 1-3, undated Notes: Coxe Brothers classification number: DNV 27-6-10
Box 48, Item 11-79	Railroad right-of-way in Beaver Meadow area, undated
Box 48, Item 11-80	Map of warants in Sugarloaf Township controlled by Coxe Brothers and Company, Inc., 1907

Subseries 7.13: Mining Maps (12-), 1884-1936

Box 49, Item 12-1	Plan and sections of proposed second level, development of Deringer Colliery, 1921 Notes: Coxe Brothers classification number: G-85-2
Box 49, Item 12-2	Map of Deringer mine, valuation, 1915 Notes: Coxe Brothers classification number: DR-1/1-3
Box 49, Item 12-3	Mining plans veins with marketable tonnage as of January 1936, 1936 Notes: Coxe Brothers classification number: DR-2/2-40 to 46
Box 49, Item 12-4	Map of underground workings at Deringer Gowen No. 4, 1911
Box 49, Item 12-5	Underground workings, Deringer Colliery on Buck Mountain, undated Notes: Coxe Brothers classification number: DR-2/2-35, 108
Box 49, Item 12-6	Eastern Middle Coal Field, mine sheet XIV, undated Notes: Coxe Brothers classification number: DR-1/1-4, 202
Box 49, Item 12-7	Deringer Colliery, undated Notes: Coxe Brothers classification number: DR-1/1-12
Box 49, Item 12-8	Underground workings, Deringer Colliery in Mammoth Vein, M&B split, 1909 Notes: Coxe Brothers classification number: DR-2/2-23
Box 49, Item 12-9	Section through tunnels in North Basin-Deringer and sections of mines developed gangway, 1885 Notes: Coxe Brothers classification number: DNV 3-2-4
Box 49, Item 12-10	Underground workings, Deringer Colliery in Wharton Vein, 1909 Notes: Coxe Brothers classification number: DR-2/2-25
Box 49, Item 12-11	Deringer Colliery, Primrose Vein, undated Notes: Coxe Brothers classification number: DR-2/2-38, G84-6
Box 49, Item 12-12	Underground workings, East End of Deringer Collieries, undated Notes: Coxe Brothers classification number: DR-2/2-39
Box 49, Item 12-13	Map of Deringer underground, Wharton Vein, undated Notes: Coxe Brothers classification number: DR-2/2-26, G86-1
Box 49, Item 12-14	Mine inspectors tracing of the map of Deringer Colliery showing extension of workings 1884-1886 Notes: Coxe Brothers classification number: DNV 3-3-1
Box 49, Item 12-15	Map of Deringer Colliery showing extension of workings in January 1884 and proposed plan of breasts on south counter gangway, undated Notes: Coxe Brothers classification number: DNV 3-3-2

Box 49, Item 12-16	Inspector's tracing of map of Deringer Colliery showing extension of workings, 1887 Notes: Coxe Brothers classification number: DNV 3-3-3
Box 49, Item 12-17	Dump in slope, undated Notes: Coxe Brothers classification number: DNV 3-3-4 and 5
Box 49, Item 12-18	Map of North crop workings in Buck Mountain vein west side of Deringer Colliery indicating territory for which a [robbing permit] is required, 1910 Notes: Coxe Brothers classification number: DNV 3-3-6
Box 49, Item 12-19	Deringer-Gowen outside tracing, undated Notes: Coxe Brothers classification number: DR-1/1-10, G76-4
Box 49, Item 12-20	Plan of buildings near Gowen stable, Black Creek Township, undated Notes: Coxe Brothers classification number: DR-1/2-1, 302
Box 49, Item 12-21	Plan of present tracks of Deringer Breaker and proposed alterations for loading Deringer coal in railroad cars, undated Notes: Coxe Brothers classification number: DR-1/9-3
Box 49, Item 12-22	Map showing location of outside tracks at Deringer Drift, 1919 Notes: Coxe Brothers classification number: DR-1/9-9
Box 49, Item 12-23	Plan of extreme western of Deringer Breaker siding, Delaware, Susquehanna and Schuylkill Railroad, undated Notes: Coxe Brothers classification number: DR-1/9-11
Box 49, Item 12-24	Map of West Buck Mountain Coal and Iron Company, undated Notes: Coxe Brothers classification number: DR-1/10-3
Box 49, Item 12-25	Map showing cropping of Buck Mountain Vein and Wharton Vein, Deringer and Tomhicken Collieries, undated Notes: Coxe Brothers classification number: DR-1/10-2
Box 49, Item 12-26	Plan of building and dwellings at Deringer and Fern Glen, Black Creek Township, undated Notes: Coxe Brothers classification number: DR-1/2-2, Y16-16
Box 49, Item 12-27	Map showing extensions of coal basins covered by Coxe-Deringer, lesser and estimated tonnages, undated Notes: Coxe Brothers classification number: DR-1/10-1, R-29-9
Box 49, Item 12-28	Stripping plans, undated Notes: Coxe Brothers classification number: DR-2/9-5, R49-4A
Box 49, Item 12-29	Print showing improvements in vicinity of Drifton in relation to proposed motor house, 1923 Notes: Coxe Brothers classification number: DR-1/9-8, 304, Y15-18

Box 49, Item 12-30	Section lines south of Deringer Village to determine location of borings to test south overlap basin, undated Notes: Coxe Brothers classification number: DR-2/6-2
Box 49, Item 12-31	Map showing underground workings in Buck Mountain, Deringer Colliery, 1913 Notes: Coxe Brothers classification number: R-DT-1
Box 49, Item 12-32	Top split, Mammoth Vein at Tomhicken, 1913-1927 Notes: Coxe Brothers classification number: R-DT-2
Box 49, Item 12-33	Whartron Vein at Tomhicken, 1913-1927 Notes: Coxe Brothers classification number: R-DT-3
Box 49, Item 12-34	Bottom split, Mammoth Vein at Tomhicken, 1913-1927 Notes: Coxe Brothers classification number: R-DT-4
Box 49, Item 12-35	Map showing underground workings in Gamma Vein, Deringer Colliery, 1913-1928 Notes: Coxe Brothers classification number: R-DT-5
Box 49, Item 12-36	Mining plan for bottom of Gamma Vein, undated Notes: Coxe Brothers classification number: R-DT-6
Box 49, Item 12-37	Map of underground workings at Deringer and Gowen No. 4, 1909-1912 Notes: Coxe Brothers classification number: R-DT-8
Box 49, Item 12-38	Map of Tomhicken Collieries (Wharton, Buck, and Mammoth veins), 1897-1914 Notes: Coxe Brothers classification number: R-DT-9
Box 49, Item 12-39	Map showing underground workings in Wharton Vein at Deringer Colliery, 1913-1928 Notes: Coxe Brothers classification number: R-DT-10
Box 49, Item 12-40	Map showing underground workings in Mammoth Vein at Deringer Colliery, 1914-1928 Notes: Coxe Brothers classification number: R-DT-11
Box 49, Item 12-41	Deringer Colliery Little Buck Vein, undated Notes: Coxe Brothers classification number: R-DT-14
Box 49, Item 12-42	Map showing underground workings in Gowen Collieries on land of West Buck Mountain Coal and Iron Company, 1911-1925 Notes: Coxe Brothers classification number: R-DT-15
Box 49, Item 12-43	Map of West Cross Creek Collieries, Gowen, Pennsylvania showing Wharton Vein, 1909-1925 Notes: Coxe Brothers classification number: R-DT-16
Box 49, Item 12-44	Map showing underground workings in Gamma Vein at Gowen No. 3, 1914-1925

	Notes: Coxe Brothers classification number: R-DT-17
Box 49, Item 12-45	Mechanical details for Barney's Deringer Slope No. 5, undated Notes: Coxe Brothers classification number: DNV 3-5-1,2,3
Box 49, Item 12-46	Buck Vein ventilation, Deringer, undated Notes: Coxe Brothers classification number: DR-2/16-1
Box 49, Item 12-47	Deringer Little Buck Vein ventilation, undated Notes: Coxe Brothers classification number: G-61
Box 49, Item 12-48	Deringer ventilation, undated Notes: Coxe Brothers classification number: G-61
Box 49, Item 12-49	Plan of buildings at Gowen Slope No. 4, undated Notes: Coxe Brothers classification number: DR-1/2-3, 302, Y-16-15
Box 49, Item 12-50	Map of Deringer, 1915 Notes: Coxe Brothers classification number: DR-1/1-3, 202
Box 49, Item 12-51	Railroads, creeks and township roads between Gowen and Blackridge according to actual location in reference to track lines traced from Hoffman map, undated Notes: Coxe Brothers classification number: DR-1/1-8, 301, Y-16-7
Box 49, Item 12-52	Plan of pump room, Deringer Colliery Gowen Slope No. 4, Lehigh Coxe Division, 1917 Notes: Coxe Brothers classification number: DR-2/13-3, 315, Y-15-7
Box 49, Item 12-53	Plan and section No. 38, East Buck Mountain gangway and slant chute, grievance No. 4091, undated Notes: Coxe Brothers classification number: DR-2/20-1, 315
Box 49, Item 12-54	Plan of Deringer Office, undated Notes: Coxe Brothers classification number: DR-5/1-2, 318, Y-25-3
Box 49, Item 12-55	Deringer Property, undated
Box 49, Item 12-56; Map-folder 103	Arrangement of tracks and dumps at bottom of rock slope, Deringer, Pennsylvania, undated Notes: Coxe Brothers classification number: DNV-3-2-7
Box 49, Item 12-57	Deringer Colliery, Gowen No. 4 Slope, proposed pump house and 17" [?] drill holes, 1917
Box 49, Item 12-58	Section on line from face of North Counter (May 1886) to Black Creek Crossing, 1886 Notes: Coxe Brothers classification number: DNV 3-1-4
Box 49, Item 12-59	Plan of Deringer store (Coxe Brothers and Company) and siding to store, undated

	Notes: Coxe Brothers classification number: DNV-3-4-2

Subseries 7.14: Mining Maps (13-), 1884-1926

Box 50, Item 13-1	Tomhicken Colliery map of first and second level gangways and cross sections in relation to proposed slope near No. 3 tunnel, 1931 Notes: Coxe Brothers classification number: T-1/12-6, 97
Box 50, Item 13-2	Buck Mountain Vein at Tomhicken, 1914
Box 50, Item 13-3	Profile for loaded tracks at breaker Tomhicken, undated Notes: Coxe Brothers classification number: 2-1-1
Box 50, Item 13-4	Detail drawing for outside mine tracks east of breaker, Tomhicken, Pennsylvania, undated Notes: Coxe Brothers classification number: DNV 2-1-2
Box 50, Item 13-6	Plan showing breaker and surrounding at Tomhicken, Luzerne County, Pennsylvania, undated Notes: Coxe Brothers classification number: DNV 2-1-4
Box 50, Item 13-7	Section of line of breaker siding at Tomhicken between west end of standroom and Lehigh Valley Railroad switch, undated Notes: Coxe Brothers classification number: DNV 2-1-5
Box 50, Item 13-8	Profile for empty tracks at Tomhicken Breaker, undated Notes: Coxe Brothers classification number: DNV 2-1-6
Box 50, Item 13-9	Plat showing alignment, grades and frogs of loaded and empty tracks at Tomhicken Breaker, undated Notes: Coxe Brothers classification number: DNV 2-1-7
Box 50, Item 13-10	Outside mine tracks at Tomhicken, undated Notes: Coxe Brothers classification number: DNV 2-1-8
Box 50, Item 13-11	Ground plan of Tomhicken Breaker and shaft surface tracks, undated Notes: Coxe Brothers classification number: DNV 2-1-9
Box 50, Item 13-14	Boiler house and adjacent tracks at Tomhicken?, undated
Box 50, Item 13-15	Map of Tomhicken Colliery showing location of Slope No. 8 and workings to be developed, undated Notes: Coxe Brothers classification number: T-1/3-2, 209
Box 50, Item 13-16	Transportation map in Tomhicken Colliery, 1936 Notes: Coxe Brothers classification number: 225
Box 50, Item 13-17	Map of underground workings on Coxe-Deringer land, Tomhicken lease, undated

	Notes: Coxe Brothers classification number: R42-3-A
Box 50, Item 13-18	Underground workings, Tomhicken Colliery-Buck Mountain Vein, 1908 Notes: Coxe Brothers classification number: T-2/31, R42-3-B
Box 50, Item 13-19	Underground workings, Tomhicken Colliery, Mammoth Vein M&D split, undated Notes: Coxe Brothers classification number: R42-3-D, 209
Box 50, Item 13-20	Underground workings, Tomhicken Colliery, Wharton Vein, 1908 Notes: Coxe Brothers classification number: R42-3-C
Box 50, Item 13-21	Map of underground workings on Coxe-Deringer land, Tomhicken lease, undated Notes: Coxe Brothers classification number: R-42-3-A
Box 50, Item 13-22	Underground workings, Tomhicken Colliery, Buck Mountain vein, 1908 Notes: Coxe Brothers classification number: R-42-3-A
Box 50, Item 13-23	Underground workings, Tomhicken Colliery, Mammoth Vein, middle and bottom split, 1908 Notes: Coxe Brothers classification number: R-42-3-D
Box 50, Item 13-24	Map of Tomhicken Mine, valuation June 15, 1915, 1915 Notes: Coxe Brothers classification number: T-1/1-1
Box 50, Item 13-25	Tomhicken property, land tracts in mine boundaries, undated Notes: Coxe Brothers classification number: T-1/1-5
Box 50, Item 13-26	Tomhicken Colliery, sketch showing route of Locie Road, 1922 Notes: Coxe Brothers classification number: T-1/9-11, 306
Box 50, Item 13-27	No title. Underground mine workings, undated Notes: Coxe Brothers classification number: T-2/2-16, G88-1
Box 50, Item 13-28	Map of Tomhicken underground workings, Buck Mountain Vein, 1915 Notes: Coxe Brothers classification number: T-2/2-15, G88-1
Box 50, Item 13-29	Three drawings, plan of present tracks at Tomhicken Breaker and proposed track arrangement to load coal in railroad cars, and details of proposed arrangement, undated Notes: Coxe Brothers classification number: T-1/9-10, 207
Box 50, Item 13-30	Tomhicken underground workings, big vein, bottom bench, undated Notes: Coxe Brothers classification number: T-2/2-13, G88-1
Box 50, Item 13-31	Inspector tracing map of Tomhicken Colliery showing extension of workings in 1884, 1884 Notes: Coxe Brothers classification number: T-2/3-10, 228, DNV 2-4-5
Box 50, Item 13-32	Tomhicken shaft section workings in middle vein with breast levels, undated

	Notes: Coxe Brothers classification number: T-2/3-10, 228
Box 50, Item 13-33	Tomhicken shaft section workings in bottom vein with breast levels, undated Notes: Coxe Brothers classification number: T-2/3-10, 228
Box 50, Item 13-34	Tomhicken shaft section preliminary levels along line of proposed slant road to Henry Lebo tract, undated Notes: Coxe Brothers classification number: T-2/3-10, 228
Box 50, Item 13-35	Tomhicken shaft section preliminary levels along line of proposed slant road to Henry Lebo workings, undated Notes: Coxe Brothers classification number: T-2/3-10, 228
Box 50, Item 13-36	Tomhicken shaft section workings on middle vein with breast levels, undated Notes: Coxe Brothers classification number: T-2/3-10, 228
Box 50, Item 13-37	Tomhicken shaft section plan of breast working in top vein west of Manway, undated Notes: Coxe Brothers classification number: T-2/3-10, 228
Box 50, Item 13-38	Tomhicken shaft section workings in bottom vein with breast levels, undated Notes: Coxe Brothers classification number: T-2/3-10, 228
Box 50, Item 13-39	Bottom vein, Tomhicken shaft working in its relative position to the Black Creek, undated Notes: Coxe Brothers classification number: T-2/3-10, 228
Box 50, Item 13-40	Tomhicken shaft section line of road in top vein, graded and straightened toward shaft, undated Notes: Coxe Brothers classification number: T-1/3-4, 312
Box 50, Item 13-41	Copy of surveyor's report on resurvey of original 1793 survey on block of land that included the Henry Lebo warrant, 1903 Notes: Coxe Brothers classification number: T-1/3-4, 312
Box 50, Item 13-42	Tonages of coal in Mammoth, Wharton, Gamma, and Buck Mountain veins as of January 1936, 1936 Notes: Coxe Brothers classification number: T-2
Box 50, Item 13-43	Black Ridge Colliery, Tomhicken, Mammoth Vein, 1926 Notes: Coxe Brothers classification number: T-2/2-12
Box 50, Item 13-44	Tomhicken, Deringer, Gowen Colliery outside transportation methods, undated Notes: Coxe Brothers classification number: T-1/9-16, 207
Box 50, Item 13-45	Map of Tomhicken Colleries, 1899 Notes: Coxe Brothers classification number: 306
Box 50, Item 13-46	Drawing of mine track arrangement at the underground dump pocket, undated Notes: Coxe Brothers classification number: T-2/18-4, 214, Y-17-14

Box 50, Item 13-47	Two maps. Railroad, creeks, and township roads between Tomhicken and Gowen and Black Ridge and Gowen, undated Notes: Coxe Brothers classification number: T-1/1-2, 201
Box 50, Item 13-48	Map of Tomhicken workings showing locations of proposed fans and slopes and haulage roads, undated Notes: Coxe Brothers classification number: T-2/5-2, 210, R42-1
Box 50, Item 13-48	Buildings and dwellings at Tomhicken, undated Notes: Coxe Brothers classification number: T-1/12-1, 208, R-42-6
Box 50, Item 13-49	Tomhicken mine workings, undated Notes: Coxe Brothers classification number: T-2/3-3, 308, Y-9-3
Box 50, Item 13-50	Map showing workings and proving's along landline between properties controlled by Coxe Brothers and Company and Hazle Mountain Coal Company, undated Notes: Coxe Brothers classification number: T-2/3-9, 308, Y-17-7
Box 50, Item 13-51	Bore hole logs. Hole nos. 24, 33, 34, 37, 38, 39 and 40, undated Notes: Coxe Brothers classification number: t-2/6-2 to 9, 317
Box 50, Item 13-52	Tomhicken property, undated
Box 50, Item 13-53	Envelope of names and dates of service 1913-1914
Box 50, Item 13-54	Plan and section of [Ashsidiag?] at Tomhicken and outside line tracks in Henry Lebo workings, undated

Subseries 7.15: Mining Maps (14-), 1872-1936, 1997

Box 52, Item 14-1	Map of Cross Creek Colliery, Slope No. 2, Buck Mountain Workings, 1908-1921 Notes: Coxe Brothers classification number: R-D-11
Box 52, Item 14-2	Drifton No. 2 property, undated Notes: Coxe Brothers classification number: DNV 35-20-1
Box 52, Item 14-3	General map of Drifton and adjacent colleries, undated Notes: Coxe Brothers classification number: DNV 7-16-1
Box 52, Item 14-4	Profile of Slope No. 1 and grading, undated Notes: Coxe Brothers classification number: DNV 7-15-1
Box 52, Item 14-5	Section on line of Slope No. 1, undated Notes: Coxe Brothers classification number: DNV 36-28-1
Box 52, Item 14-6	Plan of track and buildings at Drifton Breaker Machine hops, undated Notes: Coxe Brothers classification number: DNV 35-24-1

Box 52, Item 14-7	Section on East Track Slope No. 2 Drifton, undated Notes: Coxe Brothers classification number: DNV 7-14-1
Box 51, Item 14-8	Tracing showing log roads and other private roads in vicinity West of Drifton and Woodside Creek, undated Notes: Coxe Brothers classification number: D-1/5-1, G108-3
Box 51, Item 14-9	Drifton Slope No. 2, Buck Mountain Vein West End workings, top bench, 1919-1927 Notes: Coxe Brothers classification number: 1872
Box 51, Item 14-10	Drifton Slope No. 2, Buck Mountain Vein West End workings, bottom bench, 1919-1927 Notes: Coxe Brothers classification number: 1873 AC Scan: AC1002-0000022
Box 51, Item 14-11	Drifton Colliery, Cross Creek Slope No. 1, Buck Mountain Vein, 1909-1927 Notes: Coxe Brothers classification number: R-D-6 AC Scan: AC1002-0000023
Box 52, Item 14-12	Drifton Slope No. 2, Gamma Vein West End workings, 1919-1927 Notes: Coxe Brothers classification number: R-D-12
Box 51, Item 14-13	Drifton No. 2 Colliery, proposed connection of 4 ft. gauge track from Northeast stripping to shop tracks, 1912 Notes: Coxe Brothers classification number: D-1/9-7, 205, R-47-9
Box 51, Item 14-14	Townsite [Drifton?] with Woodside addition, water lines also shown, undated Notes: Coxe Brothers classification number: D-1/2-1, 205, R-3-8
Box 51, Item 14-15	Drifton Colliery, physical features in vicinity of Slop's Nos. 1 and 2, 1917 Notes: Coxe Brothers classification number: D-1/9-3
Box 51, Item 14-16	Exchange or boundary dispute between Drifton and Highland mines, 1880s-1890s Notes: Coxe Brothers classification number: D-2/7-5 AC Scans: AC1002-0000001 to 0000004 and AC1002-0000006 to 0000017
Box 51, Item 14-17	Possible change of North Branch of Cross Creek East of Machine Shops and Breaker No. 2 Drifton, 1911 Notes: Coxe Brothers classification number: D-1/9-11, 205
Box 51, Item 14-18	Drifton Sope No. 1, Wharton vein, 1913-1927 Notes: Coxe Brothers classification number: R-D-5
Box 51, Item 14-19	Possibly an extension to 14-18 re: Drifton Mine, undated
Box 51, Item 14-20	Drifton Slope No. 1 Mammoth Vein, bottom split, 1917-1927

	Notes: Coxe Brothers classification number: R-D-10
Box 51, Item 14-21	Map of Cross Creek Colliery, 1878 Notes: Coxe Brothers classification number: DNV 7-6-7
Box 51, Item 14-22	Present workings of the Cross Creek Colliery, Drifton, Slope No. 1, 1870 Notes: Coxe Brothers classification number: DNV 7-6-12 AC Scan: AC1002-0000004
Box 52, Item 14-23	MISSING Tracing of the Cross Creek Colliery, working slope No. 1, showing extension of workings on April 1872, 1872 Notes: Coxe Brothers classification number: DNV 7-6-10
Box 51, Item 14-24	Map of Drifton No. 3 workings Drifton Slope No. 1, undated Notes: Coxe Brothers classification number: DNV 7-14-6,7,8
Box 51, Item 14-25	Foundation plan of 10 5/6" x 30" stroke engine Lehigh Valley Coal Company No. 758, 1918 Notes: Coxe Brothers classification number: D-6/T, 218, Y-4-21-A
Box 51, Item 14-26	Series of cross sections near Lattimore boundary line, undated Notes: Coxe Brothers classification number: D-2/9-2, 212, R-47-8
Box 51, Item 14-27	Map of portion of Cross Creek Colliery, Slope No. 2, 1878-1879 Notes: Coxe Brothers classification number: DNV 7-2-2 and 3 AC Scan: AC1002-0000019 to 0000021
Box 52, Item 14-28	Map of the Drifton and Upper Lehigh, 1904 Notes: Coxe Brothers classification number: G-1/7-21
Box 51, Item 14-29	Drifton Slope No. 1, Mammoth Vein top split, 1914-1926 Notes: Coxe Brothers classification number: R-D-16
Box 51, Item 14-29	Railroad trackage Drifton Shops, 1928
Box 51, Item 14-30	Proposed track changes desired by Coxe Brothers and Company, Inc., 1936
Box 51, Item 14-31	Drifton Colliery, physical feaures in vicinity of Slopes No. 1 and 2, 1917
Box 52, Item 14-32	Mining plans for the several veins, undated
Box 51, Item 14-33	Flow sheet, Drifton Breaker, 1930 Notes: Coxe Brothers classification number: D-6/6, 319
Box 51, Item 14-34	Crane girders and supports, pump room, Drifton Shops, 1909 Notes: Coxe Brothers classification number: DNV 7-12-11
Box 51, Item 14-35	Barometric condenser, 1909

	Notes: Coxe Brothers classification number: DNV 7-12-9
Box 52, Item 14-36	Wilgus Drifton Mine map and typcial columnar schemes, 1916
Box 52, Item 14-37	Arrangement of 14" x 20" Locomotive Rogers Type, 1997 Notes: Coxe Brothers classification number: G-559, #1555
Box 52, Item 14-38	Proposed track changes, 1920 Notes: Coxe Brothers classification number: 4918
Box 51, Item 14-39	Backswitch landing on top of Slope No. 9, 1927 Notes: Coxe Brothers classification number: S347
Box 51, Item 14-40	Details of 21" x 38" hoisting engine for Buck Mountain, 1894 Notes: Coxe Brothers classification number: C-252
Box 51, Item 14-41	Cross Creek Coal Company, engine and pumps, undated
Box 52, Item 14-42	Electrical substation, 1920
Box 51, Item 14-43	Rock conveyor for Drifton No. 2 beaker, 1915-1920 Notes: Coxe Brothers classification number: 67-22
Box 51, Item 14-44	Dump, chute, house and car haul, 1917 Notes: Coxe Brothers classification number: 92-3
Box 51, Item 14-45	Barney and Bridge, 1918 Notes: Coxe Brothers classification number: 32-3
Box 51, Item 14-46	Office Warehouse, Oil House, and Cement House, 1912 Notes: Coxe Brothers classification number: 74-12
Box 52, Item 14-46	Breaker Engine House and Engine Foundation Plan, 1915 Notes: Coxe Brothers classification number: 118-12
Box 52, Item 14-47	Bents F and G, Drifton No. 2 Breaker showing changes, 1920 Notes: Coxe Brothers classification number: 88-3
Box 51, Item 14-48	Elevation of East, West, and South aside of 8 inch brick wall for Boiler House, 1917 Notes: Coxe Brothers classification number: S-440
Box 51, Item 14-49	Slope Hoist House outside, 1920 Notes: Coxe Brothers classification number: S-681
Box 51, Item 14-50	New roof and truss, Drifton Boiler House, 1919 Notes: Coxe Brothers classification number: S-535
Box 51, Item 14-51	Crane girders and supports, pump room, Drifton No. 2 Slope, 1909

	Notes: Coxe Brothers classification number: S-293A
Box 51, Item 14-52	Details for Duplex Compound L.O.G. Pump and No. 2 Drifton Mines, 1905 Notes: Coxe Brothers classification number: 2925, 2926
Box 52, Item 14-53	Boiler House, Babcock and Wilcox Boilers, Drifton No. 2 Colliery, 1917 Notes: Coxe Brothers classification number: 37-10
Box 52, Item 14-54	Foundation plan and layout 8'0" x 3' 6" Jeffrey Fan, 1925 Notes: Coxe Brothers classification number: 4-E-9
Box 51, Item 14-55	Jeanesville 26 and 42 x 14 x 48 compound pump, 1909
Box 52, Item 14-56	MISSING General drawings for piston valve engine size 12 x 24 for Drifton No. 2, 1890 Notes: Coxe Brothers classification number: 198
Box 51, Item 14-56	Dorr [Thickner?] for reclaiming silt, 1920 Notes: Coxe Brothers classification number: 77-8
Box 51, Item 14-57	General plan 18" x 36" duplex Corliss Engine for Lehigh Valley Coal Company, 1915 Notes: Coxe Brothers classification number: 10-545
Box 51, Item 14-58	Plan of foundation for 5" two stage turbine pump, 1919 Notes: Coxe Brothers classification number: 187-44766
Box 51, Item 14-59	Draft of memo of requisition for material saddle tank for Vulcan Steam Locomotive, 1912
Box 51, Item 14-60	Section of line of present location of township road from Butler Valley to Drifton, undated Notes: Coxe Brothers classification number: DNV 27-3-7
Box 51, Item 14-61	Outlines of coal banks on right-of-way of Lumberyard Hay Creek cutoff, 1911 Notes: Coxe Brothers classification number: DNV 27-6-8
Box 51, Item 14-62	Surroundings of Drifton Breaker No. 2, 1910 Notes: Coxe Brothers classification number: DNV 7-1-10
Box 51, Item 14-63	Plan and section of Breaker No. 2 and Machine Shops of Coxe Brothers and Company, Drifton, undted Notes: Coxe Brothers classification number: DNV 7-3-9
Box 51, Item 14-64	Detail drawing showing undergrade crossing to be kept open when trestle by Lehigh Traction Company is drilled, 1900 Notes: Coxe Brothers classification number: DNV 7-1-7 and 8
Box 51, Item 14-65	Adapted plan of the Gravity Roads bottom of Slope No. 1, Cross Creek Colliery, undated

	Notes: Coxe Brothers classification number: DNV 7-3-1
Box 51, Item 14-66	Surface improvements at Drifton Slope No. 2, plan and section, undated
Box 51, Item 14-67	Drifton property, undated

Subseries 7.16: Mining Maps (15-), 1906-1944

Box 53, Item 15-1	Map of Foster Township, Luzerne County, Pennsylvania, 1909 Notes: Coxe Brothers classification number: G-1/1-19, G-38-6-A
Box 53, Item 15-2	Oneida lands, undated Notes: Coxe Brothers classification number: G-1/1-20, 24
Box 53, Item 15-3	Map of lands owned and leased by Coxe Brothers and Company, Inc. situated in Lehigh Coal Region, 1906 Notes: Coxe Brothers classification number: G-1/1-3, 23, R-33
Box 53, Item 15-4	Retracing showing land ownership as of 1838, undated Notes: Coxe Brothers classification number: G-1/4-8, 23
Box 53, Item 15-5	Retracing showing land ownership as of 1838, undated Notes: Coxe Brothers classification number: G-1/4-5
Box 53, Item 15-6	Tracing of land ownership on Green Mountains, undated Notes: Coxe Brothers classification number: G-1/1-18
Box 53, Item 15-7; Map-folder 103	Coxe properties, information required by auditor general as per his circular letter dated May 27, 1920, 1920
Box 53, Item 15-8	Location of properties in Eastern Middle Field, 1916 Notes: Coxe Brothers classification number: R-19-5
Box 53, Item 15-9	Land in City of Hazleton, undated
Box 53, Item 15-10	Estate of Tench Coxe, coal reserve in Abraham Mason tract, undated Notes: Coxe Brothers classification number: R-D-20
Box 53, Item 15-11	Lands of the Union Improvement Company, undated Notes: Coxe Brothers classification number: 0-116
Box 53, Item 15-12	Surface features, Eastern Middle Coal Field, undated
Box 53, Item 15-13	Map of the lands of the Estate of Tench Coxe showing acres leased for mining purposes and areas not leased, 1931

Box 53, Item 15-14	Labor and material costs of yardage breasts in the Coxe Brothers and Company Colleries as of July 1, 1915, 1915 Notes: Coxe Brothers classification number: G-2/21-1, 215, G-81-2
Box 53, Item 15-15	Cost of mined coal standing in yardage breasts in the Coxe Brothers and Company Collieries as of July 1, 1915, 1915 Notes: Coxe Brothers classification number: G-2/21-1, Y-14-82
Box 53, Item 15-16	Coal reserves in Cox properties, 1925
Box 53, Item 15-17	Tracing showing lands controlled by Coxe Brothers and Company distinguished by leases taken partly, Sturdevant County map, 1900
Box 53, Item 15-18	Wharton vein, Tomhicken mining plan, 1914 Notes: Coxe Brothers classification number: T-2/2-14, G-88-2
Box 53, Item 15-19	Location of properties in Eastern Middle Field, Lehigh Valley Coal Company and Coxe Brothers and Company, Inc., 1916
Box 53, Item 15-20	Collection of drawings and handwritten calculations and map of warrants in Black Creek Township controlled by Coxe Brothers and tabulation of area of coal measures, 1895-1907
Box 53, Item 15-21	Map showing location of poles of the Consolidated Telephone Company through Drifton, Pennsylvania, Freeland Borough on the estate of Tench Coxe, undated Notes: Coxe Brothers classification number: M-1/9-1, B
Box 53, Item 15-22	Drifton Water Company, map of streams and improvements in territory of Drifton Water Company, 1906 Notes: Coxe Brothers classification number: R-36
Box 53, Item 15-23	Map showing line of the Long Distance Telephone Company between Harleigh and Drifton on the Estate of Tench Coxe, undated Notes: Coxe Brothers classification number: M-1/9-1, 306
Box 53, Item 15-24	Map of land belonging to the Tench Coxe Estate, undated
Box 53, Item 15-25	Map showing lines of the Consolidated Telephone Company between Harleigh-Lattimore-Freeland, on the Estate of Tench Coxe, undated Notes: Coxe Brothers classification number: M-1/9-1, A
Box 53, Item 15-26	Sections of 1889 Pennsylvania Geological Survey containing Southern Coal field pasted together, undated
Box 53, Item 15-27	Collection of Coxe Brothers and Company, Inc. property maps for Wilgus Valuation, 1915

Box 53, Item 15-28	Collection of Coxe Brothers cost and production statistics. Detailed breakdown of costs, figures for each mine., 1920-1935
Box 53, Item 15-29	Charts showing distribution of 1927 income in detail to all interested parties to Coxe Buck Mountain property, 1928
Box 53, Item 15-30	Average thickness of coal beds, 1916
Box 53, Item 15-31	Plans of colliery structures and dwellings with some detail of construction material for insurance puposes. Drawings cover specific land warrant areas, 1914-1930
Box 53, Item 15-33	MISSING Book, Handy Tables, undated
Box 53, Item 15-34	MISSING Book, Collection of blueprint copies of useful machine shop and engineering design information, 1900-1910
Box 53, Item 15-35	Table showing original amount of coal in the ground on the southwestern portion of the Daniel Brobst tract near Shenandoah, Pennsylvania as claimed by Tench Coxe Estate and worked by leases of the Girard Estate, 1910
Box 53, Item 15-36	Prepared chart of vertical rise angles for distances up to 300 feet from given point, undated
Map-folder 103, Item 15-37	Plan of homes at West Cross Creek Collieries, undated Notes: Coxe Brothers classification number: DNV 17-23-1
Box 53, Item 15-38	Key to location of subdivisions of insurance charts property of Coxe Brothers and Company, undated
Box 53, Item 15-39	Official copies of land patents with Pennsylvania state seals, 1944
Map-folder 105, Item 15-40	Profiles of mine slopes, most relate to Cross Creek Coal Company, 1930
Map-folder 103, Item 15-41	Coxe method of indexing

Subseries 7.17: Mining Maps (16-), 1918-1928

Box 53, Item 16-1	Coxe Brothers land in Drifton-Deringer area with kinds of trees growing on land, 1918 Notes: Coxe Brothers classification number: G-1/4-3, 204, R-33
Box 53, Item 16-2	Plot of preliminary surveys for a tunnel to drain collieries in Beaver Creek, Hazle Creek, Black Creek and Cross Creek basins, undated Notes: Coxe Brothers classification number: M-2/13-3, G96-4
Box 53, Item 16-3	Not completed tracing of mined areas (Beaver Meadow), undated

	Notes: Coxe Brothers classification number: BM-2/15-7, G-71
Box 53, Item 16-4	Elevation of first breaker No. 2 with graining of slope track from surface to first lift, undated Notes: Coxe Brothers classification number: DNV 7-3-10
Box 53, Item 16-5	Map showing provings on Wharton vein in Dreck Creek basin on property of Beaver Brook Estate, 1928 Notes: Coxe Brothers classification number: M-2/3-16, 2013
Box 53, Item 16-6	Map of survey for S.E. Grissom's Breaker, 1864
Box 53, Item 16-7	Porter Swamp reservoir area, undated Notes: Coxe Brothers classification number: E-2/7-2, R48-3-C
Box 53, Item 16-8	Water system for townsite and shop and breaker areas, undated Notes: Coxe Brothers classification number: 4-1/2-3
Box 53, Item 16-9	Map of Dreck Creek, undated Notes: Coxe Brothers classification number: R-36
Box 53, Item 16-10	Hog trough and rectangular types of chute design, 1926
Box 53, Item 16-11	Plan of 42 gauge railroad crossover (40 degree angle), undated Notes: Coxe Brothers classification number: M-6/1, 218, Y-8
Box 53, Item 16-12	Tracks at Breaker No. 1, undated Notes: Coxe Brothers classification number: DNV-36-27-3
Box 53, Item 16-13	Copy of hay [hursts?], Map of Estate Land in Sandin, Hanover, Newport, and Sugarloaf Townships, 1838 Nescopek, 1838 Notes: Coxe Brothers classification number: DNV 27-3-2
Box 53, Item 16-14	MISSING Sugarloaf boreholes Nos. 1 and 2, undated Notes: Coxe Brothers classification number: DNV 14-30-1
Box 53, Item 16-15	Mine development map, undated
Box 53, Item 16-16	Friedrich's Estate map extending north to Nescopeck West to Gowen, south to Mahanoy and east to Lehigh River, undated Notes: Coxe Brothers classification number: G-1/1-14
Box 53, Item 16-17	Friedrich's Estate map extending north to North Branch to Gowen, south to Boston with stations of triangulation, undated Notes: Coxe Brothers classification number: G-1/1-13, G58

Subseries 7.18: Mining Maps (17-), 1909

Box 53, Item 17-57	Report on Coxe Deringer Land, Tomhicken lease, sheet 5 Notes: T-2/4-1, 309; R-42-3-E
Map-folder 103	Map showing lands of Coxe Estate, 1922
Box 53, Item 17-77	Houses East Sugar Loaf Coal Company at Stockton, Luzerne, 1900
Box 53, Item 17-78	Map of Lands in Carbon County, Pennsylvania, property of Tench Coxe Estate, 1909
Box 53, Item 17-80	Underground workings, 2nd lift, slope No. 1, Drifton, 1879-01

Subseries 7.19: Mining Maps (18-), undated

Box 39, Item 18-1	Compilation of Diamond Drill Borings on [Ino Cowden Warrant?] adjoining the Hazlebrook Property (Council Ridge), undated Notes: Associate mining map number: CR-2/6-2
Box 39, Item 18-2	Plan showing probable outlines of Buck Mountain slope No. 6 strippings, undated Notes: Associated mnining map number: CR-2/9-17

Subseries 7.20: Mining Maps (19-), 1925-1930

Box 39, Item 19-1	Map showing outcrops of coal beds and cross sections at Stockton, 1925 Notes: Coxe Brothers classification number: S-1/10-1; S-2/2-1; S-2/2-2; S-2/2-3; S-2/2-4; and S-2/2-5
Box 39, Item 19-2	Stockton map showing drainage scheme at Stockton No. 7 and No. 2, 1930 Notes: Coxe Brothers classification number: S-2/13-1, 318
Box 39, Item 19-3	Maps showing cropping of [Gamma?] and Wharton veins, Stockton Colliery, undated Notes: Coxe Brothers classification number: S-2/15-2, 320
Box 39, Item 19-4	Map showing Stockton No. 7 [Gamma?] vein which is to be left undiscovered to support the Lehigh Valley Railroad track in vicinity of Ashmore Terminal, 1919 Notes: Coxe Brothers classification number: S-2/19-1, 320

Subseries 7.21: Mining Maps Miscellaneous, 1856-1959

Box 54, Item Misc-1	Eastern Middle Coal Field, Columbia, Carbon, Schuylkill and Luzerne Counties showing location of breaker mines, undated
Box 54, Item Misc-2	Customer purchase order forms for Jeddo-Highland, undated

	Notes: Coxe Brothers classification number: Form 93cc
Box 54, Item Misc-3	MISSING Construction drawings for a breaker coal preparation plant, undated
Box 54, Item Misc-4	Design drawing for typical Irwin 8 Wheel All Steel Mine Car, 1959 Notes: Coxe Brothers classification number: MR-236
Box 54, Item Misc-5	Handwritten draft of coal prospect evaluation report, undated Notes: Coxe Brothers classification number: T-1/3-4
Box 54, Item Misc-6	1928 budget for Lehigh Division, 1928 Notes: Coxe Brothers classification number: M-2/5-1, 244
Box 54, Item Misc-7	Railroad and other lines about Mahanoy Plane, 1873
Box 54, Item Misc-8	Buck Mountain property in Carbon County (water rights), undated Notes: Coxe Brothers classification number: CR-1/3-2, 203, R41-1
Box 54, Item Misc-9	Map of Middle Mahanoy lands and interferences, 1856
Box 54, Item Misc-10	Print of Misc-9 but marked up Council Ridge fee land showing operating area, undated Notes: Coxe Brothers classification number: CR-1/3-2, R-4-8
Box 54, Item Misc-11	Plot plan of Nelson City (Sheppton), undated Notes: Coxe Brothers classification number: M-1/2-3, 302
Box 54, Item Misc-12	Map of streams and improvements in territory of Tomhicken Water Company, undated Notes: Coxe Brothers classification number: R-36
Box 54, Item Misc-13	Map of streams and improvements in territory of Tomhicken Water Company, undated
Box 54, Item Misc-14	Map of streams and improvements in territory of Beaver Meadow Water Company, undated
Box 54, Item Misc-15	Map of streams and improvements in territory of Drifton Water Company, 1906
Box 54, Item Misc-16	Map of streams and improvements in territory of Drifton Water Company, undated
Box 54, Item Misc-17	Map of streams and improvements in territory of Onedia Water Company, 1913 Notes: Coxe Brothers classification number: R-36
Box 54, Item Misc-18	Map of Buck Mountain land showing water supply controlled by Drifton Water Company, undated

Box 54, Item Misc-19	Plan and profile on line of proposed fresh water pipe through the Beisel property operated by Wolfe Coal Company, undated
Box 54, Item Misc-20	Map of Hudsondale pipeline, Hazleton Water Company, undated
Box 54, Item Misc-21	Construction drainage for Dreck Creek, 8 inch pipeline crossing of Dreck Creek, 1910
Box 54, Item Misc-22	Construction drainage for Dreck Creek, 8 inch pipeline crossing of Hazle Creek, 1910
Box 54, Item Misc-23	Collection of drawings showing Lehigh Traction Company right-of-way, 1915 Notes: Coxe Brothers classification number: M-1/9-11
Box 54, Item Misc-24	Land taken by Lehigh Traction Company in connection with change of tracks in vicinity of Freeland Borough, 1916-1920 Notes: Coxe Brothers classification number: M-1/9-11, Y-23-8
Box 55, Item Misc-25	Combined mine planning and geological data, map of underground workings at Black Ridge, undated Notes: Coxe Brothers classification number: DNV 17-21-1
Box 55, Item Misc-26	Map of Hazlebrook underground workings, undated Notes: Coxe Brothers classification number: DNV 17-21-2
Box 55, Item Misc-27	Map showing underground workings at Drifton with connection to Highland Mine, undated Notes: Coxe Brothers classification number: DNV 17-21-3
Box 54, Item Misc-28	Tracing land lines of Highland Colliery No. 1, 1878 Notes: Coxe Brothers classification number: DNV 17-21-4
Box 55, Item Misc-29	Tracing of Cochrans map of Honeybrook lands showing crop and pitch of veins, 2430 feet east of Green Mountain lands, undated Notes: Coxe Brothers classification number: DNV 17-21-5
Box 54, Item Misc-30	Cochrans plot of Honeybrook lands, undated Notes: Coxe Brothers classification number: DNV 17-21-6
Box 54, Item Misc-31	Tracing of Cochrans map of Honeybrook land, undated Notes: Coxe Brothers classification number: DNV 17-21-7
Box 54, Item Misc-32	Tracing of Cochrans map of Honeybrook lands reduced to scale at Friedrichs Estate map, undated Notes: Coxe Brothers classification number: DNV 17-21-8
Box 54, Item Misc-33	Plans for Barney railrioad car mover, 1882 Notes: Coxe Brothers classification number: DNV 17-21-9

Box 54, Item Misc-34	Mine car, undated Notes: Coxe Brothers classification number: DNV 17-21-10
Box 54, Item Misc-35	Plans for Barney railrioad car mover, undated Notes: Coxe Brothers classification number: DNV 17-21-11
Box 54, Item Misc-36	Dump in top of No. 2 breaker, 1885 Notes: Coxe Brothers classification number: DNV 17-21-12
Box 54, Item Misc-37	Map of Philadelphia and Reading Railroad and Lehigh Valley Railroad in area of Delano lands, undated
Box 54, Item Misc-38	Piece of mine planning map cut from another drawing (not Misc-27), undated
Box 54, Item Misc-39	Diamond drill hole record, undated
Box 54, Item Misc-40	MISSING Side elevation of Breaker Building at Beaver Meadow, undated
Box 54, Item Misc-41	Map showing coal first depths between Eckley Road and [Feddo Canal?], 1906 Notes: Coxe Brothers classification number: DNV 27-8-1
Box 55, Item Misc-42	Tracing of proposed dam on Robert Irwin tract, Mahanoy Township, undated Notes: Coxe Brothers classification number: DNV 27-8-3
Box 55, Item Misc-43	Map of Highland Colliery, undated Notes: Coxe Brothers classification number: DNV 27-8-4
Box 54, Item Misc-44	Anthracite Coal Fields of Pennsylvania and General Columnar Sections of Anthracite Coal Measures, 1893 Notes: Coxe Brothers classification number: DNV 27-8-5
Box 55, Item Misc-45	Map showing located railroad line from the Catawissa Railroad south at Lofty Station to Drifton with branches to Green Mountain, Beaver Meadow and [Gowen?], undated Notes: Coxe Brothers classification number: DNV 27-8-6
Box 55, Item Misc-46	Map of Deringer Colliery, 1897 Notes: Coxe Brothers classification number: DNV 3-9-1
Box 55, Item Misc-47	Deringer and Cowen No 4 Collieries, undated Notes: Coxe Brothers classification number: DNV 3-9-2
Box 54, Item Misc-48	Map of the workings in the Buck Mountain vein, Hazle Dell Colliery, 1875
Box 54, Item Misc-49	Drawings in Deringer slope upper lift, undated Notes: Coxe Brothers classification number: DNV 3-5-4
Box 54, Item Misc-50	Pictoral section of a coal mine operation, undated

	Notes: Coxe Brothers classification number: M-2/4-6, 2-4
Box 54, Item Misc-51	Surface features in connection with lands of Coxe Brothers and Company, Inc. Jeddo-Highland Coal Company and Hazelbrook Coal Company, undated Notes: Coxe Brothers classification number: G-1/1-34, 202
Box 54, Item Misc-52	Map of East Section of Sugarloaf Mountain Colliery, 1911-1917 Notes: Coxe Brothers classification number: 1481
Box 54, Item Misc-53	Map of Hazleton property, 1915
Box 54, Item Misc-54	Print showing method of working veins on light pitch by gravity hoist, 1925 Notes: Coxe Brothers classification number: M-2/11-1, 311, Y-25-7
Box 54, Item Misc-55	Map Showing location of refuse and silt banks, 1930
Box 54, Item Misc-56	Map Showing location of refuse and silt banks, 1930
Box 54, Item Misc-57	MISSING Diamond drill holes on Coxe-Deringer land, Tomhicken lease, undated Notes: Coxe Brothers classification number: T-2/4-1, 309, R42-3-E
Box 54, Item Misc-58	Hazleton property, Stockton, undated
Box 54, Item Misc-59	Map showing cropping and primary vein, Stockton Colliery, undated Notes: Coxe Brothers classification number: S-2/15-1, 320, R45-1-B
Box 54, Item Misc-60	Sketch of shaft stop or platform, undated Notes: Coxe Brothers classification number: G-54
Box 54, Item Misc-61	Plan of buildings and dwellings on Samuel Scott warrant and Daniel Smith warrant. Eckley Buck Mountain, undated Notes: Coxe Brothers classification number: CR-1/2-2, 203
Box 54, Item Misc-62	Maps of West Cross Creek Collieries, Gowen, Pennsylvania, 1880 Notes: Coxe Brothers classification number: DNV-4-2-12
Box 55, Item Misc-63	Map of properties owned and controlled by the Cross Creek Coal Company, undated Notes: Coxe Brothers classification number: G-1/1-15
Box 55, Item Misc-64	Anthracite Coal Fields of Pennsylvania, 1884
Box 55, Item Misc-65	Geological Map of Pennsylvania, 1893
Box 55, Item Misc-66	General and Delaware, Susquehanna and Schuylkill Railroad Map, undated Notes: Coxe Brothers classification number: M-1/9-13, 1
Box 54, Item Misc-67	Plan and profile of mine track to Wolfe Coal Company slope, undated

	Notes: Coxe Brothers classification number: M-1/9-5, 207, R47-11-A
Box 54, Item Misc-68	Tracing of West Cross Creek Colliery Coal Mine, Gowen, Pennsylvania, 1878 Notes: Coxe Brothers classification number: DNV 4-5-2
Box 54, Item Misc-69	Map of West Cross Creek Collieries, Gowen, Pennsylvania, undated
Box 55, Item Misc-70	Cross Creek Colliery, Slope No. 2, 1890 Notes: Coxe Brothers classification number: DNV 7-10-1
Box 54, Item Misc-71	Bottom of Gamma vein, Drifton, 1927
Box 54, Item Misc-72	Map of Cross Creek Colliery, Slope No. 1, Black Creek Improvement Company, George Moore workings, bottom split and top split, 1909-1927 2 Copies
Box 54, Item Misc-73	MISSING Lehigh Valley Railroad in relation to collieries, undated Notes: Coxe Brothers classification number: M-1/9-17, 319
Box 54, Item Misc-73	Audenried Colliery, Lehigh and Wilkes-Barre Coal Company print showing inaccessible workings of No. 23 Slope, 1921 Notes: Coxe Brothers classification number: M-2/3-6, 308, G50-250
Box 54, Item Misc-73	Mining plans, undated Notes: Coxe Brothers classification number: DNV 7-10-7
Box 54, Item Misc-74	MISSING Map showing provings on Beisel land and adjoining properties, undated Notes: Coxe Brothers classification number: M-2/6-4, R47-10
Box 54, Item Misc-74	Calculations to determine tonnage remaining in Black Mountain vein, Drifton and Woodside basins; tonnage for Wharton vein and Mammoth vein, 1905 Notes: Coxe Brothers classification number: DNV-7-10-2 and 7-10-3
Box 55, Item Misc-75	Map of West Cross Creek Collieries, Gowen, Pennsylvania showing old roads to drifts, cave holes on Slope No. 97-2 workings and Roberts Run, 1880 Notes: Coxe Brothers classification number: DNV 4-5-2
Box 54, Item Misc-75	Heavy duty switch to be used on all main line tracks, 1927 2 Copies Notes: Coxe Brothers classification number: M-6/2, 221
Box 54, Item Misc-76	Grading for Lehigh Valley Railroad, undated Notes: Coxe Brothers classification number: DNV 7-10-4 and 7-10-5
Box 54, Item Misc-76	Livestock report, Hazleton Division year ending 1927, 1928 Notes: Coxe Brothers classification number: M-7/3-1, 317
Box 54, Item Misc-77	MISSING House East of Sugarloaf Coal Company at Stockton, Luzerne County, Pennsylvania, 1900

Box 54, Item Misc-77	Four small documents concerning length of rail at George Moore tract, 1911 Notes: Coxe Brothers classification number: DNV 7-10-8
Box 54, Item Misc-78	MISSING Map of Cross Creek Colliery Slope No 1, Drifton, 1855
Box 54, Item Misc-78	MISSING Map of lands in Carbon County, Pennsylvania, property of Tench Coxe Estate, 1909
Box 54, Item Misc-79	Map showing lands of Coxe Estate, 1922
Box 54, Item Misc-79	Sewerage around Drifton, undated Notes: Coxe Brothers classification number: DNV 7-10-6
Box 54, Item Misc-80	Cross Creek Slope No. 1 showing extension of workings in January 1877 and second lift [slantwad?] under construction with levels, undated Notes: Coxe Brothers classification number: DNV 7-7-6
Box 54, Item Misc-80	MISSING Underground workings, second lift slope No. 1, Drifton, 1879 Notes: Coxe Brothers classification number: DNV 7-7-5
Box 54, Item Misc-80	No title or notes on single drawing, undated Notes: Coxe Brothers classification number: DNV 1-4-15
Box 54, Item Misc-81	Tracing of Cross Creek Colliery, 1873 Notes: Coxe Brothers classification number: DNV 7-7-4
Box 55, Item Misc-82	Map of Cross Creek Colliery, Slope No.1, Drifton, 1885 Notes: Associated mining map survey number: DNV 7-15-3
Box 55, Item Misc-83	Map of Wyoming Anthracite Coal Field, Pennsylvania, 1869
Box 54, Item Misc-84	Articles of agreement between Coxe Brothers and Company, Inc. and [Portland Construction Company?], 1907
Box 53	Plan of Breaker, Cross Creek Coal Company, Beaver Meadow, undated
Map-folder 103	1203, Type No. A-1 steam shovel built by Thew Automatic Shovel Company, undated
Map-folder 103	Second Geological Survey of Pennsylvania/J.P. Lesley, state geologist, 1884-11
Map-folder 103	Delaware, Susquehanna and Schuylkill Railroad Company, General Rules, undated
Map-folder 103	Properties of the Coxe Brothers and Company, Inc. located in Eastern Middle Coal Field, 1930
Map-folder 103	Photocopies of land patents in Land Office Bureau of the Department of Internal Affairs, Pennsylvania, 1793-1830s

Map-folder 103	Lehigh Valley Coal Company details for 1 1/8" x 2" x 2" pump for 10" x 20" hydraulic press, 1921
Map-folder 103	Coxe Stoker Engineering Company, Hammond Coal Company, Girardville, Pennsylvania, layout of boiler room, undated

Return to Table of Contents