

Coal Mines in Illinois Neponset Quadrangle

Bureau & Henry Counties, Illinois

Herrin Coal

This map accompanies the Coal Mines Directory for the Neponset Quadrangle. Consult the directory for a complete explanation of the information shown on this map.

Mining Method

- Room & Pillar (RP)
- Room & Pillar Basic (RPB)
- Modified Room & Pillar (MRP)
- Room & Pillar Panel (RPP)
- Blind Room & Pillar (BRP)
- Checkerboard Room & Pillar (CRP)
- High Extraction Retreat (HER)
- Longwall (LW)
- Underground, Method Unknown
- Strip Mine
- Auger Mine
- General Area of Mining

Other Areas Depicted

Non-Coal Mines

Source of Mine Outline

- Final Mine Map
- Not Final Mine Map
- Undated Mine Map
- Incomplete Mine Map
- Secondary Source Map

Tipple, Shaft, Slope, Drift Locations

- Strip Mine Tipple - Active
- Strip Mine Tipple - Abandoned
- Mine Shaft - Active
- Mine Shaft - Abandoned
- Mine Slope - Active
- Mine Slope - Abandoned
- Mine Drift - Active
- Mine Drift - Abandoned
- Air Shaft
- Uncertain Location
- Uncertain Type of Opening

Other Points Depicted

Non-Coal Mines

Location



Mine Annotation (space permitting)

- Company
- Mine Name
- ISGS Index No., Years of Operation

Disclaimer

Please check the Coal Section at the Illinois State Geological Survey's web site at <http://www.isgs.illinois.edu> for the most up-to-date version of these products.

Note that each quadrangle scale mined-out area map requires the use of the associated text directory for full explanation of map features and mine attributes. Also note that some quadrangles have multiple seams of mining and therefore more than one map may be available for a particular quadrangle. Please take care to check for multiple maps, as extensive mining may exist in the other seams.

The maps and digital files used for these studies were compiled from data obtained from a variety of public and private sources and have varying degrees of completeness and accuracy. This compilation map presents reasonable interpretation of the geology of the area and is based on available data. Locations of some mine features may be offset by 500 feet or more due to errors in the original source maps, the compilation process, digitizing, or a combination of these factors. These data are not intended for use in site-specific screening or decision-making. Use of these documents does not eliminate the need for detailed studies to fully understand the geology of a specific site. The Illinois State Geological Survey, Prairie Research Institute, or the University of Illinois make no guarantee, expressed or implied, regarding the correctness of the interpretations presented in this data set and accept no liability for the consequences of decisions made by others on the basis of the information presented here.

These maps were designed for use at 1:24,000. Enlarging the map may reduce accuracy, as the original scale of the source maps used to compile the outlines shown varies from 1:400 to 1:150,000, and some mine locations are known only from text descriptions. See the accompanying mine directory for the original scale of the source map used for a specific mine to check accuracy of a given portion of the map. Areas with no mines shown may still be undermined; see the unlocated mines list at the back of each mine directory.

The image of the U.S.G.S. topographic base map was projected from the original UTM to Lambert Conformal Conic.

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Mine Outlines Compiled by
C. Chenoweth
June 2019

Elmer Stone
Stone Mine
2408, 1929-1941

Black Diamond C. Co.
Black Diamond Mine
2409, 1934-1943

ar Coal Co.
ar Mine
10, 1936-1942

Northeast Coal Co.
Northeast Mine
2411, 1913-1917

ley shaft
82

Kewanee Coal Co.
Kewanee No. 2
264, 1907-1913

n Engel
Mine
1910-1916

Mine

PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY
CONTROL BY
COMPILED FROM AERIAL PHOTOGRAPHS TAKEN 1977
FIELD CHECKED 1986
PROJECTION UNIVERSAL TRANSVERSE MERCATOR
GRID: 1000-METER UNIVERSAL TRANSVERSE MERCATOR
GRID: 1000-FOOT STATE GRID TICS ILLINOIS, WEST ZONE
UTM GRID DECLINATION 1957 WEST
UTM MAGNETIC NORTH DECLINATION 1957 WEST
VERTICAL DATUM NATIONAL GEODETIC VERTICAL DATUM OF 1929
HORIZONTAL DATUM 1927 NORTH AMERICAN DATUM
To place on the predicted North American Datum of 1983
move the projection lines as shown by dashed corner ticks
(2 meters north and 9 meters east)
There may be private inholdings within the boundaries of any
Federal and State reservations shown on this map
Gray tint indicates area in which selected buildings are shown

PROVISIONAL MAP
Produced from original
manuscript drawings. Infor-
mation shown as of date of
field check.

SCALE 1:24 000

CONTOUR INTERVAL 3 METERS

CONTROL ELEVATIONS SHOWN TO THE NEAREST 0.1 METER
OTHER ELEVATIONS SHOWN TO THE NEAREST 0.3 METER
To convert meters to feet multiply by 3.2808
To convert feet to meters multiply by .3048

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092
AND THE STATE GEOLOGICAL SURVEY, CHAMPAIGN, ILLINOIS 61820

NEPONSET, ILLINOIS
PROVISIONAL EDITION 1983
41089-C7-TM-024

ADJOINING 7.5' QUADRANGLE NAMES
CONTOURS AND ELEVATIONS
IN METERS

1	2	3	1 Amman
4	5	2 Mineral	
6	7	3 Winfield	
		4 Kewanee North	
		5 Bufile	
		6 Kewanee South	
		7 Elmer	
		8 Bradford	

DIRECTORY OF COAL MINES IN ILLINOIS

7.5-MINUTE QUADRANGLE SERIES

NEPONSET QUADRANGLE

BUREAU COUNTY

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2019

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Cover photo Track-mounted duckbill loading machine at a Peabody Coal Company mine, ca. 1915.

DISCLAIMER: The accuracy and completeness of mine maps and directories vary with the availability of reliable information. Maps and other information used to compile this mine map and directory were obtained from a variety of sources and the accuracy of some of the original information cannot be verified. Consequently, the Illinois State Geological Survey (ISGS) cannot guarantee the mine maps are free of errors and disclaims any responsibility for damages that may result from actions or decisions based on them.

The ISGS updates the maps and directories periodically, and welcomes any new information or corrections. Please contact the Coal Section of the ISGS at the address shown on the title page of this directory.

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INTRODUCTION

Coal has been mined in 76 counties of Illinois. More than 7,400 coal mines have operated since commercial mining began in Illinois about 1810; fewer than 30 are currently active. To detail the extent and location of coal mining in Illinois, the Illinois State Geological Survey (ISGS) has compiled maps and directories of known coal mines. The ISGS offers maps at a scale of 1:100,000 and accompanying directories for each county in which coal mining is known to have occurred. Maps at a scale of 1:24,000 and accompanying directories, such as this, are available for selected quadrangles. Contact the ISGS for a list of these quadrangles.

These larger scale maps show the approximate positions of mines in relation to surface features such as roads and water bodies, and indicate the mining method used and the accuracy of the mine boundaries. The maps are useful for locating mine boundaries relative to specific properties and for assessing the potential for subsidence in an area. Mine boundaries compiled from final mine surveys are generally shown within 200 feet of their true position. As a result of poor cartographic quality and inaccuracies in the original mine surveys, boundaries of some older mines may be mislocated on the map by 500 feet or more. Original mine maps should be consulted in situations that require precise delineation of mine boundaries or internal workings of mined areas.

This directory serves as a key to the accompanying mine map and provides basic information on the coal mines in the quadrangle. The directory is composed of two parts. Part I explains the symbols and patterns used on the accompanying map and the summary data presented for each mine. Part II numerically lists the mines in the quadrangle and summarizes the geology and production history of each mine. Total production for the mine, not the portion in the quadrangle, is given.

MINING IN THE NEPONSET QUADRANGLE

Mining took place in the Herrin and Colchester Coals. The Herrin Coal was much shallower and easier to access in both surface and underground mining. However, the coal contained many impurities, including pyrite, bone coal, and clay partings. In one surface mine, the coal was mined in two benches to allow a 2-inch band that was pyrite-rich to be removed by hand shovel. Pyrite was also present as nodules that adhered to the coal. In hand-mining, the nodules were removed at the face and left in the mine. In some mines, horsebacks and clay bands or veins were present in sufficient density to increase the ash content to such a degree that the coal was unsatisfactory. In such mines, the shaft was sometimes deepened to reach the Colchester Coal.

PART I EXPLANATION OF MAP AND MINE SUMMARY SHEET

INTERPRETING THE MAP

The map accompanying this directory shows the location of coal mines known to be present in the quadrangle. The map, corresponding to a U.S. Geological Survey (USGS) 7.5-minute quadrangle, covers an area bounded by lines of latitude and longitude 7.5-minutes apart. In Illinois, a quadrangle is approximately 6.5 miles east to west and 8.5 miles north to south, an area of about 56 square miles. The USGS generally offers one map of mines per quadrangle. In some areas where extensive mining occurred in two or more overlapping seams, separate maps are compiled for mines in each seam to maintain readability of the map.

Mine Type and Mining Method

The mine type is indicated on the map by pattern color: green represents surface mines; red and yellow represent underground mines. The red patterns are used for areas of underground mining that are documented by a primary or secondary source map. A yellow pattern is used for cases where no map of the mine workings is available, but a general area of mining can be inferred from property maps or production figures. The patterns indicate the main mining methods used in underground mines. The methods are (1) room and pillar and (2) high extraction. The method used gives some indication of the amount and pattern of coal extraction within each mined area, and has some influence on the timing and type of subsidence that can occur over a mine.

The following discussion and illustrations of mining methods are based on Guither et al. (1984).

In room-and-pillar mines, coal is removed from haulage-ways (entries) and selected areas called rooms. Pillars of unmined coal are left between the rooms to support the roof. Depending on the size of rooms and pillars, the amount of coal removed from the production areas will range from 40% to 70%.

Room and Pillar - mining is divided into six categories:

- room-and-pillar basic (RPB, fig. 1A), an early method that did not follow a preset mining plan and therefore resulted in very irregular designs;
- modified room and pillar (MRP, fig. 1B);
- room-and-pillar panel (RPP, fig. 1C);
- blind room and pillar (BRP, fig. 1D);
- checkerboard room and pillar (CRP, fig. 1E);
- room and pillar (RP), a classification used when the specific type of room-and-pillar mining is unknown.

Blind and checkerboard are the most common types of room-and-pillar mining used in Illinois today. The knowledge of room-and-pillar mining methods gives a trained engineer information on the nature of subsidence that may occur. A more extensive discussion of subsidence can be found in Bauer et al. (1993).

High-extraction These mining methods are subdivided into high-extraction retreat (HER, Fig 1F) and longwall (LW, Fig 1G, 1H). In these methods, much of the coal is removed within well defined areas of the mine. Subsidence of the surface above these areas occurs within weeks. Once the subsidence activity ceases, the potential for further movement over these areas is low; however, subsidence may continue for several years after mining.

High-extraction retreat mining is a form of room-and-pillar mining that extracts most of the coal. Rooms and pillars are developed in the panels, and the pillars are then systematically removed (fig. 1F).

In early (pre-1960) longwall mines, mining advanced in multiple directions from a central shaft (fig. 1G). Large pillars of coal were left around the shaft, but all coal was removed beyond these pillars. Miners placed rock and wooden props and cribs in the mined-out areas to support the mine roof. The overlying rock gradually settled onto these supports, thus producing subsidence at the surface. In post-1959 longwall mines, room-and-pillar methods have been used to develop the main entries of the mine and panel areas. Modern longwall methods extract 100 percent of the coal in the panel areas (fig. 1H).

SOURCE MAPS

Mine outlines depicted on the map are, whenever possible, based on maps made from original mine surveys. The process of compiling and digitizing the quadrangle map may produce errors of less than 200 feet in the location of mine boundaries. Larger errors of 500 feet or more are possible for mines that have incomplete or inaccurate source maps.

Because of the extreme complexity of some mine maps, detailed features of mined areas have been omitted. The digitized mine boundary includes the exterior boundary of all rooms or entries that were at least 80 feet wide or protruded 500 feet from the main mining area. Unmined areas between mines are shown if they are at least 80 feet wide; unmined blocks of coal within mines are shown if they are at least 400 feet on each side. Original source maps should be consulted when precise information on mine boundaries or interior features is needed.

The mine summary sheet lists the source maps used to determine each mine outline. The completeness of map sources is indicated on the map by a line symbol at the mine boundary. Source maps are organized in five categories.

Final mine map The mine outline was digitized from an original map made from mine surveys conducted within a few months after production ceased. The date of the map and the last reported production are listed on the summary sheet.

Not a final map The mine is currently active or the mine outline was made from a map based on mine surveys conducted more than a few months before production ceased. This implies the actual mined-out area is probably larger than the outline on the map. The mine summary sheet indicated the dates of source maps and the last reported production, as well as the approximate tonnage mined between these two dates (if the mine is abandoned). The summary sheet also lists the approximate acreage mined since the date of the map and, in some cases, indicates the area where additional mining may have taken place. This latter information is determined by locating on the map the active faces relative to probable boundaries of the mine property.

Undated map The source map was undated, so it may or may not be based on a final mine survey. When sufficient data are available, the probable acreage of the mined area is estimated from reported production, average seam thickness and a recovery rate comparable to other mines in the area. This information is listed in the summary sheet for the mine.

Incomplete map The source map did not show the entire mine. The summary sheet indicates the missing part of the mine map and the acreage of the unmapped area, which is estimated from the amount of coal known to have been produced from the mine.

Secondary source map The original mine map was not found so the outline shown was determined from secondary sources (e.g., outlines from small-scale regional maps published in other reports). The summary sheet describes the secondary sources.

POINTS AND LABELS

The locations of all known mine openings (shafts, slopes, and drifts) and surface mine tipples are plotted on the map. Tipples are areas where coal was cleaned, stockpiled, and loaded for shipping.

Only openings or tipples are plotted for mines without source maps. If the precise locations of these features are unknown, a special symbol is used to indicate the approximate location of the mine.

Each mine on the map is labeled with the names of the mine and operating company, ISGS mine index number, and years of operation (if known) if space permits. A seam designation is given on maps where more than one seam was mined. For a mine that operated under more than one name, only the most recent name is generally given. When a mine changed names or ownership shortly before closing, an earlier name is listed. All company and mine names are listed on the mine summary sheet in the directory, under the production history segment.



Figure 1 Mining methods: (A) room-and-pillar basic (RPB), (B) modified room and pillar (MRP), (C) room-and-pillar panel (RPP), (D) blind room and pillar (BRP).

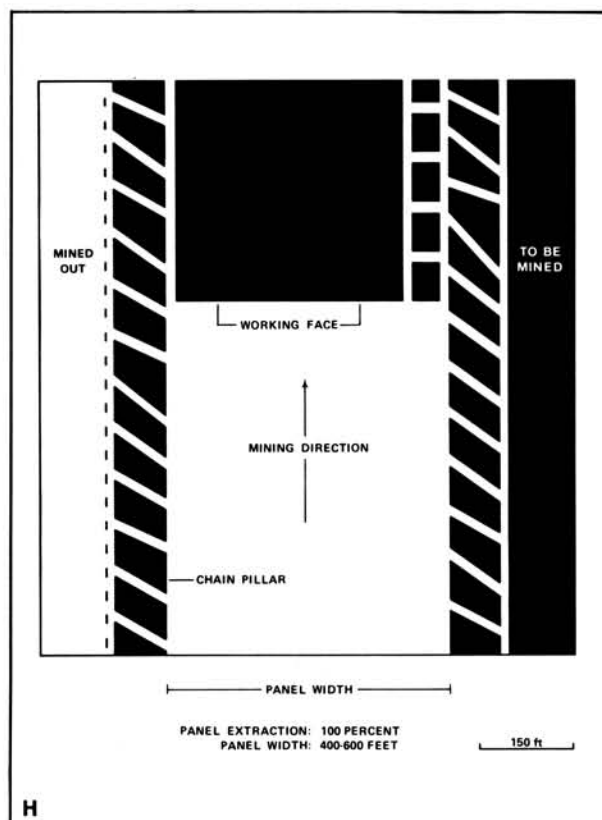
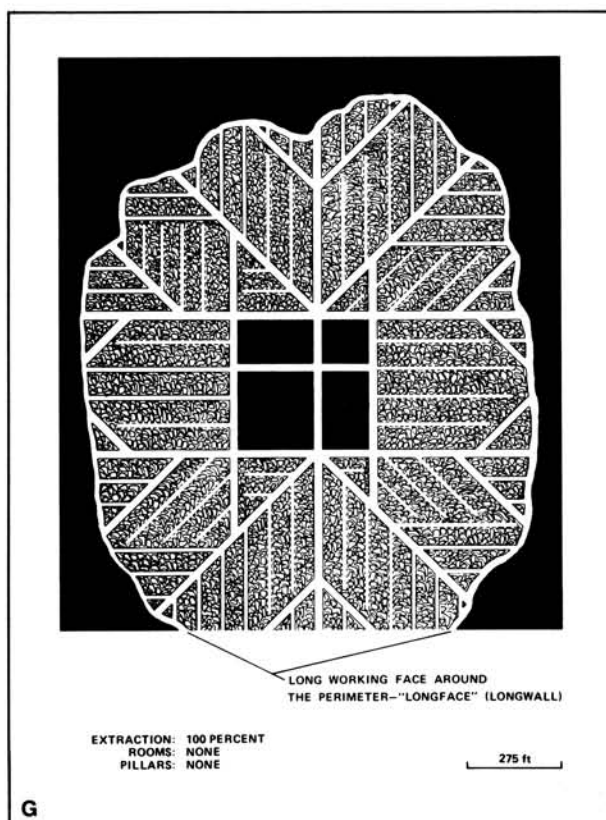
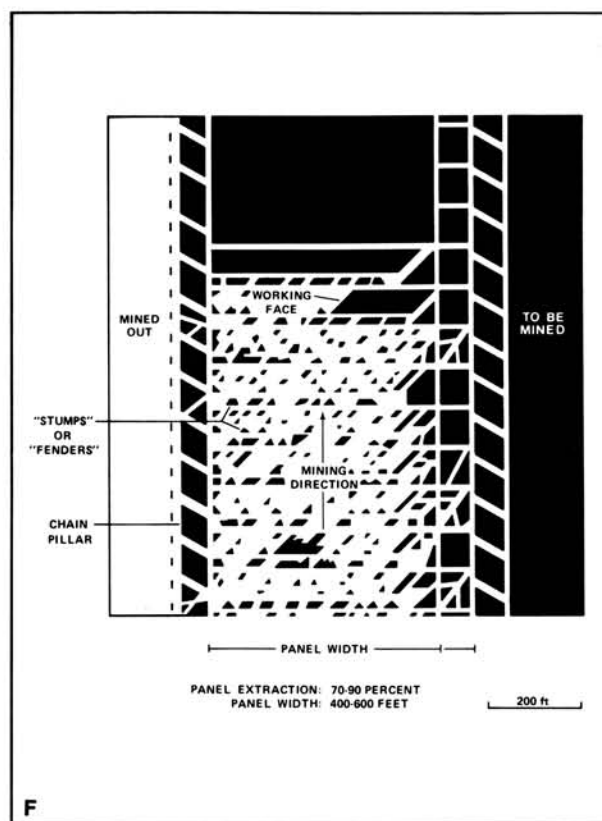
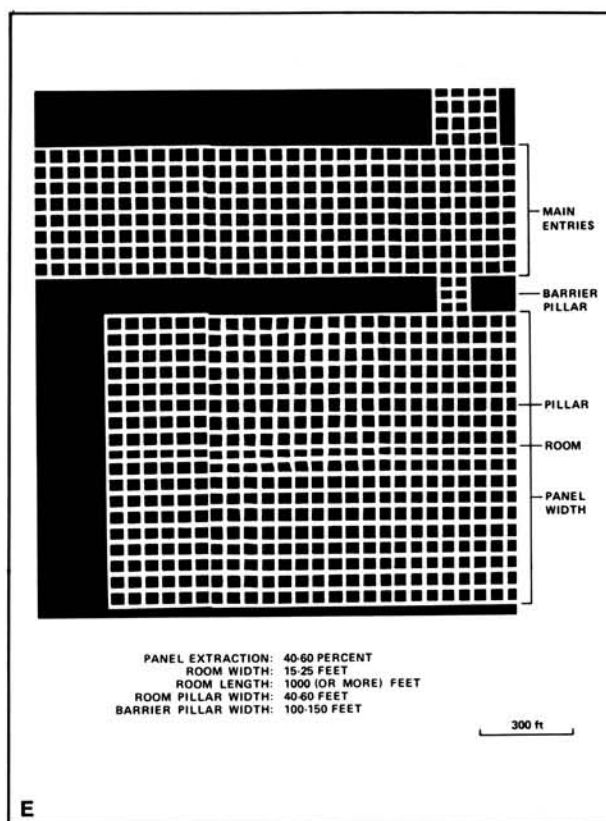


Figure 1 (cont.) Mining methods: (E) checkerboard room and pillar (CRP), (F) high extraction retreat (HER), (G) early (pre-1960) longwall, (H) post-1959 longwall



Figure 2 Generalized stratigraphic section, showing approximate vertical relations of coals in Illinois.

INTERPRETING A MINE SUMMARY SHEET

The mine summary sheet is arranged numerically by mine index number. Index numbers are shown on the map and in the mine listing. The mine summary sheet provides the following information (if available).

Company and mine name The last company or owner of the mine is used, unless no production was recorded for the last owner. In that case, the penultimate owner is listed. Mines often have no specific name; in these cases, the company name is also used as the mine name.

Type *Underground* denotes a subsurface mine in which the coal was reached through a shaft, slope, or a drift entry. *Surface* denotes a surface, open pit or strip mine.

Total mined-out acreage shown The total acreage of the mined area mapped, including any acreage mined on adjacent quadrangles, is calculated from the digitized outline of the mine. The acreage of large barrier pillars depicted on the map is excluded from the mined-out acreage. Small pillars not digitized are included in the acreage calculation. If the mine outline is not based on a final mine map, the acreage is followed by an estimate of additional acres that may have been mined. The estimate is determined from reported mine production, approximate thickness of the coal, and recovery rates calculated from nearby mines that used similar mining methods.

SHAFT, SLOPE, DRIFT OR TIPPLE LOCATIONS

Shaft, slope, drift, or tippie locations Locations of all known former entry points to underground mines or the location of coal cleaning, tippie, and shipping equipment used by the mine's facility are listed. The location is described in terms of county, township and range (Twp-Rge), section, and location within the section by quarters. NE SW NW, for instance, would describe the location in the northeast quarter of the southwest quarter of the northwest quarter. When sections are irregular in size, the quarters remain the same size and are oriented (or "registered") from the southeast corner of the section. Approximate footage from the section lines (FEL = from east line, FNL = from north line, for example) is given when that information is known; this indicates a surveyed location and is not derived from maps. Entry points are also plotted on the map and coded for the type of entry or tippie. A mine opening may have had many purposes during the life of the mine. Old hoist shafts are often later used for air and escape shafts; this information is included in the directory when known. The tippie for underground mines was generally located near the main shaft or slope. At surface mines, coal was sometimes hauled to a central tippie several miles from the mine pit.

GEOLOGY

Seam(s) mined The name of the coal seam(s) mined is listed, if known. If multiple seams were mined, they are all listed, although the mined-out area for each seam may be shown on separate maps. Figure 2 shows the stratigraphic section of the coal-bearing interval in Illinois, and the vertical relations among the coals.

Depth The depth to the top of the seam in the vicinity of the shaft is listed, if known. The depth is determined from notes made by geologists who visited the mine during its operation or from drill hole data in ISGS files. Depth generally varies little over the extent of a mine; however, reported depths for an individual mine may vary. Depth for surface-mined coals varies, and is usually represented as a range.

Thickness The approximate thickness of the mined seam is shown, if known. Thickness also comes from notes of geologists who visited the mine during its operation or from borehole data in ISGS files. Minimum, maximum, and average thicknesses are given when this information is available.

Mining method The principal mining method used at the mine (figs. 1A-H) is listed. See the mining methods section at the beginning of this directory for a discussion of this parameter.

Geologic problems reported Any known geologic problems, such as faults, water seepage, floor heaving, and unstable roof, encountered in the mine are reported. This information is from notes made by ISGS geologists who visited the mine, or from reports by mine inspectors published by the Illinois Department of Mines and Minerals, or from the source map(s). Geologic problems are not reported for active mines.

PRODUCTION HISTORY

Production history Tons of coal produced from the mine by each mine owner are totaled. When the source map used for the mine outline is not a final mine map, the tonnage produced since the date of the map is identified. For mines that extend into adjacent quadrangles, the tonnage reported includes areas mined in adjacent quadrangles.

SOURCE OF DATA

Source map This section lists information about the map(s) used to compile the mine outline and the locations of tipples and mine openings. In some cases more than one source map was used. For example, a map drawn before the mine closed may provide better information on original areas of the mine than a later map. When more than one map was used, the bibliography section explains what information was taken from each source.

Date The date of the most recent mine survey listed on the source map is reported.

Original scale The original scale of the source map is listed. Many maps are photo-reductions and are no longer at their original scale. The original scale gives some indication of the level of detail of the mine outline and the accuracy of the mine boundary relative to surface features. Generally, the larger the scale, the greater the accuracy and detail of the mine map. Mine outlines taken from source maps at scales smaller than 1:24,000 may be highly generalized and may well be inaccurately located with respect to surface features.

Digitized scale The scale of the digitized map is reported. The scale may be different from that of the original source map. In many cases the digitized map was made from a photo-reduction of the original source map, or the source map was not in a condition suitable for digitizing and the mine boundaries were transferred to another base map.

Map type Source maps are classified into five categories to indicate the probable completeness of the map. See discussion of source maps in the previous section.

Annotated bibliography Sources that provide information about the mine are listed, with the data taken from each source. Some commonly used sources are described below. Full bibliographic references are given for all other sources. Unless otherwise noted, all sources are available for public inspection at the ISGS.

Coal Reports Published since 1881, these reports contain tabular data on mine ownership, production, employment, and accidents. Some volumes include short descriptions made by mine inspectors of physical features and conditions in selected mines.

Directory of Illinois Coal Mines This source is a compilation of basic data about Illinois coal mines, originally gathered by ISGS staff in the early 1950s. Sources used for this directory are undocumented, but they are primarily Illinois Department of Mines and Minerals annual reports, ISGS mine notes, and coal company officials.

ENR Document 85/01, Guither, H. D., J. K. Hines, and R. A. Bauer, 1985 The Economic Effect of Underground Mining Upon Land Used for Illinois Agriculture: Illinois Department of Energy and Natural Resources Document 85/01, 185 p.

Microfilm map The U.S. Bureau of Mines maintains a microfilm archive of mine maps. A microfilm file for Illinois is available for public viewing at the ISGS.

Mine notes ISGS geologists have visited mines or contacted mine officials throughout the state since the early 1900s. Notes made during these visits range from brief descriptions of the mine location to long narratives (including sketches) of mining conditions and geology.

Federal Land Bank of St. Louis, Preliminary Reports on Subsidence Investigations Mining engineers working for the Federal Land Bank of St. Louis mapped areas of subsidence due to coal mining in the early 1930s. These reports often include county maps of mine properties with mined-out areas including shaft locations, as well as subsidence areas.

REFERENCES

Bauer, R. A., B. A. Trent, and P. B. Dumontelle, 1993, Mine Subsidence in Illinois: Facts for the Homeowner Considering Insurance, Illinois State Geological Survey, Environmental Geology Note 144, 16p.

Bradsby, H. C., 1885, History of Bureau County, Illinois, World Publishing Company, Chicago, Illinois, 710p.

Guither, H. D., J. K. Hines, and R. A. Bauer, 1985, The Economic Effects of Underground Mining Upon Land Used for Illinois Agriculture, Illinois Department of Energy and Natural Resources Document 85/01, 185p.

PART II DIRECTORY OF MINES IN THE NEPONSET QUADRANGLE

MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Neponset Quadrangle is provided. These summary sheets are arranged numerically by mine index number. Consult Part I for a complete explanation of the data listed in the summary sheet.

Mine Index 681

Midland Electric Coal Corporation, Midland Mine

Type: Surface Total mined-out acreage shown: 905

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Tipple	Bureau	16N 6E	22	SE SE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	35-106			3.5-4.9	Surface

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Midland Electric Coal Corporation	Midland	1947-1964 *	6,297,886 6,297,886

* The mine was not listed from 1948 to 1953. The mine may have been producing from reserves in Henry County during those years.

Last reported production: July 1964

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Neponset Quadrangle	1983	1:24000	1:24000	Secondary source
Buda Quadrangle	1983	1:24000	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, depth, mining method.

Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.

Mine notes (Bureau County) - Mine type, tipple location, seam, depth, thickness.

USGS (7.5') topographic maps, Neponset & Buda (Provisional, 1983) Quadrangles - Mine outline.

ISGS map library, 4102 i5.1-124, property map, 1959 - General pit locations.

Mine Index 868
Gilbert Pollock, Pollock No. 1 Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 6 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Bureau	16N 6E	28	NE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin					Underground

Geologic Problems Reported: The roof was a clay-rich shale (often referred to as "soapstone" in the mines of this area) that came down easily. Horsebacks occasionally cut out the top 3 to 12 inches of coal. Streamers of clay occasionally extended down into the coal from the roof. A ½ inch thick pyrite band was noted, and lenses of pyrite were seen near the center of the seam. Gypsum covered vertical fracture facings. The blue band was about 2 inches thick and 22 inches above the floor.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Lamb & Pollock	Lamb & Pollock	1920-1925 *	6,123
Gilbert Pollock	Pollock	1925-1926	4,995
Lamb & Pollock	Lamb & Pollock No. 1	1927-1931 **	3,841
Gilbert Pollock	Pollock No. 1	1932-1935	4,831
			19,790

* Mines producing less than 10,000 tons were not reported in 1922.

** Mines producing less than 1,000 tons per year were not reported in 1931.

Last reported production: 1935

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Mine notes (L. C. McCabe)	7-19-1928	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.

Mine notes (Bureau County) - Mine type, shaft location, seam, geologic problems.

Mine Index 2022
Pioneer Coal Company, Pioneer Mine

Type: Surface Total mined-out acreage shown: 86 The western portion of the pit shown in SW 22-T16N-R6E was also mined by Pioneer Coal Company, although the pit as a whole is labeled Midland Mine (mine index 681). Production indicates approximately 115 acres were mined by Pioneer Mine.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Tipple	Bureau	16N 6E	16	SE SW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	35			4.3	Surface

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Pioneer Coal Company	Pioneer	1941-1950	816,914
			816,914

Last reported production: 1950

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351382	9-15-1950	1:1200	1:1821	Final
Microfilm, document 351382	8-1-1950	1:4800	1:4800	Final
Microfilm, document 351382	1-1-1944	1:1200	1:1200	Not final
Neponset (7.5') Quadrangle	1983	1:24000	1:24000	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Bureau County) - Mine type, location, seam.
 Microfilm map, document 351382, reel 03135, frame 430 (1950) - Tipple location.
 Microfilm map, document 351382, reel 03135, frame 431 (1950) - Pit locations (western & southeastern).
 Microfilm map, document 351382, reel 03135, frame 432 (1944) - Pit location (eastern).
 USGS topographic map, Neponset Quadrangle, 1983 Provisional Edition - Mine outline.

Mine Index 2023
D. C. Brandt, Brandt Mine

Type: Underground Total mined-out acreage shown: 5

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Bureau	16N 6E	21	NW SW SW
Air shaft	Bureau	16N 6E	21	NW SW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	45			4.5	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Louis F. Brandt	Brandt	1906-1913	29,080
D. C. Brandt	Brandt	1913-1919	16,306
			43,806

Last reported production: 1919

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351376	12-29-1919	1:1200	1:1200	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mining method.
 Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Bureau County) - Mine type, shaft location, seam, depth, thickness.
 Microfilm map, document 351376, reel 03135, frame 414 - Shaft locations, mine outline, mining method.

Mine Index 2024
Jesse Straum, Comp Mine

Type: Underground Total mined-out acreage shown: Not shown on accompanying map due to later surface mining by Midland Mine (mine index 681). Production indicates approximately 4 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Bureau	16N 6E	22	SE SE SW
Air shaft	Bureau	16N 6E	22	SE SE SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	42			4.5	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Jones & Brewer	Jones & Brewer	1934-1937	9,190
Harvey Comp	Comp	1937-1938	2,237
Jesse Straum	Comp	1938-1942	6,209
			17,636

Last reported production: 1942

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351380	5-25-1942	1:1200	1:1200	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Bureau County) - Mine type, seam.
 ISGS field notes (Bureau County) - Shaft location, depth, thickness.
 Microfilm map, document 351380, reel 03135, frame 425 - Shaft locations, mine outline, mining method.

Mine Index 2025
Sheffield Mining Company, Sheffield Mine

Type: Underground Total mined-out acreage shown: 240 Sheffield Mine was later partially surface mined by Midland Mine (mine index 681).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Bureau	16N 6E	24	NE SE SW *
Shaft	Bureau	16N 6E	24	SE NW SE

* Not shown on map due to later surface mining

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	40-45			4.5	RP

Geologic Problems Reported: Numerous clay slips were present so that the usual room-and-pillar mining was altered to accommodate the problem. Entries were driven around a square block of coal and the rooms were driven in the best side of the block. The mine was abandoned because the distance from the working face to the shaft was too far for mule haulage (not because the reserves were exhausted).

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Sheffield Mining Company **	Sheffield	ca. 1855-1902 **	<u>393,766</u> ** 393,766

** The company was also known as Sheffield Mining & Transportation Company. Production and years of operation before 1881 are unknown, but *History of Bureau County* (1885) stated the mine opened more than 30 years before. The 1882 Coal Report indicates 80 acres were mined.

Last reported production: 1902

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	6-1935	1:126720	1:126720	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam, depth, thickness, mining method, geologic problems.

Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.

Mine notes (Bureau County) - Mine type, slope location.

ISGS field notes (Bureau County) - Mine type, slope location.

Bradsby, H. C., 1885, History of Bureau County, Illinois, World Publishing Company, Chicago, Illinois, 710p. - Years of operation.

Federal Land Bank Report (Bureau County) - Slope & shaft locations, mine outline.

Mine Index 2027
Bureau County Coal Company, Phillips & Hollerich Mine

Type: Underground Total mined-out acreage shown: 1

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Bureau	16N 6E	27	NW NW NE
Air shaft	Bureau	16N 6E	27	NW NW NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	58			4.5	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
E. P. Rollins *	Rollins	1917-1919	3,100
Bureau County Coal Company	Phillips & Hollerich *	1919-1920	<u>3,239</u>
			6,339

* Citing the local authority of A. W. Dix, the mine was operated circa 1923 by A. W. Dix & Edward Olson as the Rollins Mine. No production was listed in the 1923 Coal Report under this name. If the date was the previous year, in 1922, no mines producing less than 10,000 tons were reported.

Last reported production: 1920

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351378	1-19-1920	1:1200	1:1324	Final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.

Mine notes (Bureau County) - Mine name, shaft location, seam, depth, thickness.

Microfilm map, document 351378, reel 03135, frame 416 - Shaft locations, mine outline, mining method, company name.

Mine Index 2028**Good Luck Coal Company, Good Luck Mine**

Type: Underground Total mined-out acreage shown: None; production indicates approximately 2 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Bureau	16N 6E	27	NW NE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	50			4.5	Underground

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Oscar Carlson	Carlson	1932-1938	9,235
Good Luck Coal Company	Good Luck	1939-1940	<u>1,258</u>
			10,493

Last reported production: 1940

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Mine notes	Undated	1:62500	1:62500	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.

Mine notes (Bureau County) - Mine type, shaft location, seam, depth, thickness.

Federal Land Bank Report (Bureau County) - Shaft location, seam, depth, thickness.

Mine Index 2029

D. C. Brandt, Indian Hill Mine

Type: Underground Total mined-out acreage shown: 2 Production indicates 4 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Bureau	16N 6E	28	NW NW NW
Escapement shaft	Bureau	16N 6E	28	NW NW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	68			4.5	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Indian Hill Coal Company	Indian Hill	1936-1938	5,077
Indian Hill Coal Company	Indian Hill	1938-1941	14,878 *
D. C. Brandt	Indian Hill	1942-1943	<u>2,622</u> *
			22,577

* Production after map date

Last reported production: 1943

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351374	9-28-1938	1:480	1:728	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.

Mine notes (Bureau County) - Mine type, shaft location, seam, depth, thickness.

Microfilm map, document 351374, reel 03135, frame 412 - Shaft locations, mine outline, mining method.

Mine Index 2030
John Enders, Indian Hill Mine

Type: Underground Total mined-out acreage shown: None; production indicates less than 1 acre was mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Bureau	16N 6E	28	NW NE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	48			4.5	Underground

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
James W. Enders *	Indian Hill	1925-1925	34
John Enders	Indian Hill	1926-1926	532
			566

* Owned by C. C. Pervier, leased to Enders

Last reported production: 1926

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	6-1935	1:126720	1:126720	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.

Mine notes (Bureau County) - Shaft location, mine name, seam, depth, thickness, mine name.

Federal Land Bank Report (Bureau County) - Shaft location, seam, depth, thickness.

Mine Index 2031

Jenkins & Crosland, Jenkins & Crosland No. 2 Mine

Type: Underground Total mined-out acreage shown: 4 Production indicates approximately 2 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Bureau	16N 6E	28	NE NE NW *
Escapement shaft	Bureau	16N 6E	28	NE NE NW

* The center of the hoist shaft is 335.3 FNL, 2017.4 FWL.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	70			4.5	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Joe E. Clark	Clark No. 2	1935-1937	794
Jenkins & Crosland	Jenkins & Crosland No. 2	1937-1940	7,985
Jenkins & Crosland	Jenkins & Crosland No. 2	1940-1942	6,574 **
			15,353

** Production after map date

Last reported production: 1942

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351367	3-17-1940	1:600	1:869	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.

Mine notes (Bureau County) - Mine type, shaft location, seam, depth, thickness.

Microfilm map, document 351367, reel 03135, frame 395 - Shaft locations, mine outline, mining method.

Mine Index 2032
L. F. Brandt & Son, Brandt Mine

Type: Underground Total mined-out acreage shown: 5 Production indicates less than 1 acre was mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Bureau	16N 6E	29	SW SW SW
Old air shaft	Bureau	16N 6E	29	SW SW SW
Old escape shaft	Bureau	16N 6E	29	SW SW SW
Escape shaft	Bureau	16N 6E	32	NE NW NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	57			4.5	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
L. F. Brandt & Son	Brandt	1934-1941	18,346
L. F. Brandt & Son	Brandt	1941-1943	2,320 *
			20,666

* Production after map date

Last reported production: 1943

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351377	11-9-1941	1:480	1:728	Not final
State archive, IL_1037	11-9-1941	1:480	1:728	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Bureau County) - Mine type, shaft location, seam, depth, thickness.
 Microfilm map, document 351377, reel 03135, frame 415 - Shaft locations, mine outline, mining method.
 State archive, IL_1037 - Georegistration aid (used to scale the microfilm image).

Mine Index 2033
Alphonse Vermuele, Vermuele Mine

Type: Underground Total mined-out acreage shown: None; production indicates less than 2 acres were mined. Not shown on accompanying map due to later surface mining by Midland Mine (mine index 681).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Bureau	16N 6E	29	S 1/2 NE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	51	4.0	5.17	4.67	Underground

Geologic Problems Reported: The shaft was located near the center of a dip. At the shaft, the coal dipped to the north and west. About 100 yards south of the shaft, the coal elevation rose to the south. Horsebacks were common near the shaft as well, and less frequent in occurrence in the other parts of the mine. The cap rock was a 3 to 7 foot thick limestone above 4 to 4.5 feet of black shale. In some areas, the roof was white top, where the coal-roof contact was clean and the roof held better than the black shale. The black shale adhered to the coal and the top tended to come down when the coal was removed. Impurities in the seam included pyrite lenses and calcite on fracture facings.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Alphonse Vermuele	Vermuele	1920-1925	<u>6,601</u> *
			6,601

* Production was not reported in 1922 for mines producing less than 10,000 tons. The Coal Reports listed Alphonse Vermeulen only once per year from 1919-1925. The production has been included with mine index 2033, as there are mine notes of a visit to the mine in this location (S 1/2 NE SE 29-T16N-R6E) where ISGS personnel had spoken to Mr. Vermeulen. It is just as likely that the production listed for mine index 2033 rightly goes to mine index 7815 (NE NE 27-T16N-R6E), and it is possible that the production included both mines.

Last reported production: 1925

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	6-1935	1:126720	1:126720	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Bureau County) - Mine type, shaft location, seam, depth, thickness, geologic problems.
 Federal Land Bank Report (Bureau County) - Shaft location, mine type, ownership.

Mine Index 6320
Barrowman Coal Company, Barrowman Mine

Type: Underground Total mined-out acreage shown: 4 The area shown includes some of the workings for Noah Hodgett (mine index 7813) that was connected underground to the Barrowman Mine.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Bureau	16N 6E	20	NE SE SE
Air shaft	Bureau	16N 6E	20	NE SE SE *
Shaft ("old, abandoned")	Bureau	16N 6E	20	NE SE SE *

* Not shown on accompanying map due to later surface mining by Midland Mine (mine index 681)

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin					MRP

Geologic Problems Reported: The source map labeled a horseback that stopped mining just northwest of the slope entrance.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Andrew Barrowman	Barrowman	1918-1920	<u>3,137</u> 3,137

Last reported production: 1920

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351373	12-29-1919	1:1200	1:1200	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
 Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.
 Mine notes (Bureau County) - Mine type, slope location, seam.
 Microfilm map, document 351373, reel 03135, frame 411 - Slope & shaft locations, mine outline, mining method.

Mine Index 6323**Jenkins & Crosland, Jenkins & Crosland No. 1 Mine**

Type: Underground Total mined-out acreage shown: None; production indicates 2 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Bureau	16N 6E	28	NW NE NW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	50-60			4.5-5.0	Underground

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Joe E. Clark	Clark No. 1	1932-1935	6,288
Jenkins & Crosland	Jenkins & Crosland No. 1	1935-1937	<u>3,152</u>
			9,440

Last reported production: 1937

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (C. G. Ball)	8-14-1935	(text only)	1:24000 *	Secondary source

* The mine location was plotted on a 1:24000 USGS topographic map from the mine location description and digitized.

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.

ISGS field notes (Bureau County) - Shaft location, depth, thickness.

Federal Land Bank Report (Bureau County) - Depth.

Mine Index 6324**Mapes Coal Company, Mapes Mine**

Type: Underground Total mined-out acreage shown: None; production indicates approximately 3 acres were mined. Not shown on accompanying map due to later surface mining by Midland Mine (mine index 681).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Bureau	16N 6E	22	SE SW SW

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin					RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Mapes & Lingwall	Mapes & Lingwall	1930-1930	5,675
Abner Mapes	Mapes	1931-1931	1,324
Mapes & Gorey	Mapes & Gorey	1932-1932	1,378
Mapes Coal Company	Mapes	1933-1934	<u>5,400</u>
			13,777

Last reported production: 1934

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	6-1935	1:126720	1:126720	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.

Federal Land Bank Report (Bureau County) - Shaft location, mine type, seam, mining method.

Mine Index 6327
James Kemmerling, Kemmerling Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 2 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Bureau	16N 6E	31	NE NE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	40-45			4.5	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Ratcliffe Brothers	Ratcliffe	1902-1903	3,150
James Kemmerling	Kemmerling	1903-1905	4,190
			7,340

Last reported production: 1905

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	6-1935	1:126720	1:126720	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, seam, depth, thickness, mining method.
 Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.
 Federal Land Bank Report (Bureau County) - Shaft location.

Mine Index 6334
Charles Moran, Moran Mine

Type: Underground Total mined-out acreage shown: None; production indicates approximately 5 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Bureau	16N 6E	25	SE SE NW
Air shaft	Bureau	16N 6E	25	SE NW *

* The air shaft is not shown on the accompanying map, but was said to be 280 feet east of the shaft.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	12-66			4.5	RP

Geologic Problems Reported: The roof was black shale. Horsebacks up to 6 feet thick cut through the seam at an angle. Many slips were noted, with no preferred orientation. The floor was 3 inches to 1 foot of fire clay above limestone.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Nelson & Moran	Nelson & Moran	1916-1918	4,629
Mike Moran & Sons	Moran	1918-1932 *	13,974
Charles Moran	Moran	1933-1933	<u>1,555</u>
			20,158

* Idle 1921; mines producing less than 10,000 tons were not reported in 1922; idle 1929; mines producing less than 1,000 tons per year were not reported from 1930 to 1932.

Last reported production: 1933

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes (P. MacClintock)	1922	(text only)	1:24000 **	Secondary source

** The mine location was plotted on a 1:24000 USGS topographic map from the mine location description and digitized.

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, seam, depth, thickness, mining method.
 Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.
 ISGS field notes (Bureau County) - Mine type, shaft locations, seam, depth, thickness, geologic problems.

Mine Index 6335**P. C. Nelson, Nelson Mine**

Type: Underground Total mined-out acreage shown: None; production indicates approximately 3 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Bureau	16N 6E	26	NE NE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	20-51			4.0-4.83	RP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Nelson & Scott	Nelson & Scott	1903-1906	6,548
Nelson & Company	Nelson	1906-1907	1,620
Nelson & Evans	Nelson & Evans	1907-1908	2,020
P. C. Nelson	Nelson	1908-1910	2,480
			12,668

Last reported production: 1910

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
ISGS field notes	7-2-1928	1:62500	1:24000	Secondary source
Federal Land Bank Report	6-1935	1:126720	1:126720	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam, depth, thickness, mining method.
 Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.
 ISGS field notes (Bureau County) - Shaft location, depth, thickness.
 Federal Land Bank Report (Bureau County) - Shaft location, mine ownership.

Mine Index 7812**D. C. Brandt, Brandt Mine**

Type: Underground Total mined-out acreage shown: Less than 1; production indicates approximately 5 acres were mined.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Bureau	16N 6E	20	SW SE SE
Air shaft	Bureau	16N 6E	20	SW SE SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin					MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
D. C. Brandt	Brandt	1919-1921	3,547
D. C. Brandt	Brandt	1921-1925 *	17,303 **
			20,850

* Production was not reported in 1922 for mines producing less than 10,000 tons.

** Production after map date

Last reported production: 1925

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351376	1-24-1921	1:1200	1:1200	Not final

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mining method.

Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.

Microfilm map, document 351376, reel 03135, frame 414 - Shaft locations, mine outline, mining method.

Mine Index 7813
Noah Hodgett, Hodgett Mine

Type: Underground Total mined-out acreage shown: 7 The mine is too large for the reported production. It is likely that production was listed under other names in the Coal Reports. See the unlocated mines at the back of this report, most likely reporting with an address of Mineral. The area was later surface mined by Midland Mine (mine index 681).

SHAFT, SLOPE, DRIFT or TIPPLe LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Bureau	16N 6E	20	NE SE SE *

* Not shown on accompanying map due to later surface mining.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin	50			4.5	MRP

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Noah Hodgett	Hodgett	1902-1903	1,400
			1,400

Last reported production: 1903

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351376	1-24-1921	1:1200	1:1200	Secondary source
Federal Land Bank Report	6-1935	1:126720	1:126720	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, mine type, seam, depth, thickness, mining method.
 Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.
 Microfilm map, document 351376, reel 03135, frame 414 (map of Barrowman Mine, mine index 6320) - Shaft locations, mine outline, mining method.
 Federal Land Bank Report (Bureau County) - Mine ownership.

Mine Index 7814**Brandt & Carlson, Brandt & Carlson Mine**

Type: Underground Total mined-out acreage shown: None; production indicates less than 2 acres were mined. Not shown on accompanying map due to later surface mining by Midland Mine (mine index 681).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Bureau	16N 6E	20	SW SE

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin					Underground

Geologic Problems Reported:

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
James Higgins	Higgins	1923-1924	1,105
Oscar Carlson	Carlson	1924-1926	4,004
Brandt & Carlson	Brandt & Carlson	1927-1929	<u>1,766</u>
			6,875

Last reported production: 1929

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Federal Land Bank Report	6-1935	1:126720	1:126720	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.

Federal Land Bank Report (Bureau County) - Shaft location, mine outline, seam.

Mine Index 7815**Alphonse Vermeulen, Vermeulen Mine**

Type: Underground Total mined-out acreage shown: Less than 1

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Bureau	16N 6E	27	NE NE *
Air shaft	Bureau	16N 6E	27	NE NE *

* The mine's location was based on the road and the source map indicating that the 40 acres where the mine was located was owned by George Sprague. A 1908 plat book shows NE NE & SE NE 27-T16N-R6E was owned by George Sprague. The "public highway to Sheffield" in the northern part of the map locates the mine N-S very well, but there is little in the E-W direction to accurately place the mine. The positional accuracy of shafts and the mine outline are therefore poor, and cannot be located more accurately than the 40-acre quarter of Section 27.

GEOLOGY

Seam(s) Mined	Depth (ft)	Thickness (ft)			Mining Method
		Min	Max	Avg	
Herrin					MRP

Geologic Problems Reported: The source map shows a "fault" (possibly a horseback) cutting out the coal in the northern part of the mine.

PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Alphonse Vermeulen	Vermeulen	circa 1923	Unknown **

** The Coal Reports listed Alphonse Vermeulen only once per year from 1919-1925. The production has been included with mine index 2033, as there are mine notes of a visit to the mine in that location where ISGS personnel had spoken to Mr. Vermeulen. It is just as likely that the production listed for mine index 2033 rightly goes to this mine, and it is possible that the production included both mines.

Last reported production:

SOURCES OF DATA

Source Map	Date	Original Scale	Digitized Scale	Map Type
Microfilm, document 351375	6-17-1923	1:1200	1:1200	Not final

Annotated Bibliography (data source, brief description of information)

Directory of Illinois Coal Mines (Bureau County) - Mine names, mine index, ownership, years of operation.
 Microfilm map, document 351375, reel 03135, frame 413 - Shaft locations, mine outline, mining method.
 Federal Land Bank Report (Bureau County) - General mine location.

OTHER MINES SHOWN ON NEPONSET QUADRANGLE

Mine Index 6319 NE NW NE 27-T16N-R6E, surface mine in Danville Coal (for fireclay) and shaft in Herrin Coal
source: ISGS field notes (S. E. Ekblaw, 7-22-1930 & C. G. Ball, 8-14-1935)
Mine Index 6321 * SW NW SW 31-T16N-R6E, shaft, Herrin Coal, 50-60 ft deep, 3.5 ft thick, circa 1860
source: ISGS field notes (C. G. Ball, 8-14-1935)
Mine Index 6325 * NE SE SE 29-T16N-R6E source: ISGS mined-out area map, Area 3 (added by C.M.W. in
field, 12-1950)
Mine Index 6326 * NW SE SE 29-T16N-R6E source: : ISGS mined-out area map, Area 3 (added by C.M.W. in
field, 12-1950)
Mine Index 6336 NE NW 26-T16N-R6E, shaft, 41 feet deep, 4.5 feet thick source: ISGS field notes (1928)
Mine Index 6337, clay mine NE NW NE 26-T16N-R6E, surface source: ISGS field notes (G. H. Cady, 6-18-1931)
Mine Index 6338 * NE SE NE 28-T16N-R6E, slope source: ISGS field notes (C. G. Ball, 8-14-1935)
Mine Index 6340 SW SW NW 30-T16N-R6E, slope, Herrin Coal, 25 feet deep, 5.0 feet thick source: ISGS field
notes (G. H. Cady, 7-2-1928)

* stripped out by Midland Mine (mine index 681) and not shown on accompanying map

MINES WHOSE LOCATIONS ARE NOT KNOWN, NEPONSET QUADRANGLE

The locations of the following mines are unknown, but the production tonnage, operating names, and nearest town were reported in the Annual Coal Reports. The operators listed below mined in or near the Neponset Quadrangle. The information shown is similar to that presented on the summary sheets in the previous pages of this directory. The first item is the name the mine operated under as listed in the Coal Report, then the years the mine reported. If no physical data are available, the next item listed is the total tons produced by the mine. If physical data are available, the order of presentation is as follows: type of opening for the mine (drift, slope or shaft), depth of coal in feet, and thickness of coal in feet.

The total tons mined by these unlocated mines is 317,168 (314,915 underground and 2,253 mined by uncertain method), which would represent approximately 65 to 100 acres, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

MINERAL

Forest (W. H.), pre1881-1893, shaft, Herrin, 20-60, 4.5, RP	21,170 tons	90110008
Forest Brothers, No. 1 Mine, 1893-1894	1,383 tons	
Jenson (Fred), 1894-1896	4,274 tons	
Hodgett Brothers, 1896-1897	1,520 tons	
Tucker & McFall, 1897-1900	<u>4,368 tons</u>	
	32,715 tons	
Vanvelzor (John), pre1881-1882, shaft, herrin, 40-55, 4.25-4.5, RP	1,000 tons	90110009
Vanvelzor & Brother, 1882-1883	2,114 tons	
Vanvelzor (John), 1883-1890	8,424 tons	
Vanvelzor (Fred), 1890-1894	1,980 tons	
Hodgett & Company, 1894-1895	600 tons	
Paul Brothers, 1895-1898	1,606 tons	
Paul (John), 1898-1900	<u>914 tons</u>	
	16,638 tons	
The 1882 Coal Report indicated 10 acres were mined.		
Lloyd (H. W.), 1892-1893, shaft, Herrin, 25, 4.5, RP	1,350 tons	90110026
Forest Brothers, No. 2 Mine, 1893-1894, shaft, Herrin, 25, 4.5, RP	1,440 tons	90110028
Lester (C. N.), 1893-1894, shaft, Herrin, 15-40, 4.5-4.67, RP	1,390 tons	90110029
Brandt (William), 1894-1906	45,767 tons	
Brandt (Louis), 1906-1908	<u>4,880 tons</u>	
	52,037 tons	

Vanvelzor (J. M.), 1894-1895, shaft, Herrin, 47, 4.5, RP	280 tons	90110030
Tompkins Brothers, 1900-1901, slope, Herrin, 15, 4.5, RP	2,552 tons	90110035
Hodgett (Ralph W.), 1926-1929, underground	7,555 tons	90110057
Johnson (James G.), 1930-1930	<u>1,365 tons</u>	
	8,920 tons	

NEPONSET

Neponset Coal Mining Company, 1882-1883, shaft, Herrin, 170, 4.5, RP	8,700 tons	90110007
This mine is older than indicated. The 1883 Coal Report stated that 25 acres had been mined.		
Riley (C. W.), 1886-1889, shaft, Herrin, 60-70, 4.0-4.5, RP	1,513 tons	90110021
Riley (Silas), 1889-1890	538 tons	
Riley (C. W.), 1890-1891	600 tons	
Riley (Silas), 1891-1898	4,630 tons	
Riley (Cyrus W.), 1898-1913	<u>9,227 tons</u>	
	16,508 tons	
Kempin (Henry) & Company, 1900-1901, shaft, Herrin, 96, 4.0, RP	560 tons	90110036
Sweringen (N.), 1905-1906, shaft, Herrin, 40, 4.33, RP	80 tons	90110044

SHEFFIELD

Wictom & Fleming, pre1881-1884, slope, Herrin, 80-100, 4.5, RP	5,041 tons	90110001a
Fleming (Joseph), 1884-1887	<u>4,789 tons</u>	
	9,830 tons	
Fleming (Joseph), 1890-1894, shaft or slope, Herrin, 25-40, 4.5, RP	1,717 tons	90110001b
Fleming & Kildow, 1894-1895	841 tons	
Hansen & Olsen, 1895-1896	1,588 tons	
Olsen & Nelson, 1896-1897	<u>1,000 tons</u>	
	5,146 tons	
Sprague (James B.), 1881-1889, slope, Herrin, 40-100, 4.5, RP	10,814 tons	90110002
Lyford (A.), pre1881-1883, shaft, Herrin, 28-40, 4.5, RP	1,223 tons	90110003
Lloyd & Higby, 1883-1886	5,030 tons	
Higby (John), 1886-1887	<u>1,500 tons</u>	
	7,753 tons	
The 1882 Coal Report indicated 10 acres were mined.		
Duncan (Peter), 1881-1900, shaft & slope, Herrin, 20-48, 4.5-4.67, RP	22,804 tons	90110004
Duncan (Matthew), 1900-1904	<u>7,796 tons</u>	
	30,600 tons	
Lloyd & Hauswell, 1882-1884, slope, Herrin, 30-40, 4.5, RP	2,276 tons	90110005
Lloyd (Silas), 1884-1885	1,092 tons	
Lloyd (H. W.), 1885-1893	<u>19,795 tons</u>	
	23,163 tons	
Churchill & Hodgett, 1889-1890, slope, Herrin, 30-85, 4.5, RP	1,080 tons	90110022
Hodgett Brothers, 1890-1894	14,200 tons	
Hodgett & Williams, 1894-1895	4,600 tons	
Williamson (Z. E.), 1895-1899	<u>6,437 tons</u>	
	26,317 tons	
Duncan (John V.), 1891-1906, shaft, Herrin, 15-40, 4.5, RP	12,867 tons	90110025

Sprague (James), 1894-1895, shaft, Herrin, 24, 4.5, RP	800 tons	90110027
Strand & Norien, 1903-1904, shaft, Herrin, 48-50, 4.5, RP	1,896 tons	90110038a
Norien (A. G.), 1904-1905	<u>2,442</u> tons 4,338 tons	
Gotheridge (Charles), 1903-1906, shaft, Herrin, 46-50, 4.0-4.5, RP	740 tons	90110040
Nelson (J. P.), 1904-1905, —, Herrin, 42-50, 3.5-4.83, RP	720 tons	90110042
Neave (James), 1905-1912	20,280 tons	
Fleming & Wilkinson, 1912-1913	1,462 tons	
Wilkinson (T. H.), 1913-1918	<u>8,357</u> tons 30,819 tons	
Goldsmith (F. B.), 1904-1905, shaft, Herrin, 50, 4.5, RP	408 tons	90110043
Masters (William) & Brother, 1909-1912, shaft, Herrin, 45, 4.5, RP	3,880 tons	90110046
Masters (William J.), 1916-1918, shaft, Herrin, 50, 4.5, RP	1,800 tons	90110049
Masters (Frank), 1918-1919	<u>884</u> tons 2,684 tons	
Mapes (A. M.), 1916-1917, shaft, Herrin, 60, 4.5, RP	24 tons	90110050
Maples, Burckart & Hotkiss, 1922-1924	600 tons	90110055a
Maples & Kleckner, 1924-1925	1,032 tons	
Mapes & Company, 1926-1926	<u>250</u> tons 1,882 tons	
Pearson (John), 1927-1928, underground	622 tons	90110058
Lamb & Pollock, No. 2 Mine, 1934-1936, underground	1,394 tons	90110059
Hotchkiss (Charles) & Son, 1934-1935, underground	381 tons	90110063
Pilson & Inch, 1934-1934	201 tons	90110064
Pilson (Peter), 1935-1935	<u>170</u> tons 371 tons	
Thomas (W. G.) & Sons, 1934-1936, underground	555 tons	90110065

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