Coal Mines in Illinois
Pittsburg Quadrangle
Williamson & Franklin Counties, Illinois
Danville & Herrin Coals

This map accompanies the Coal Mines Directory for the Pittsburg Quadrangle and map of mines in the Springfield Coal, Pittsburg 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

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

Mine Annotation
(space permitting)
Company
- Mine Name
- ISGS Index No., Years of Operation

DISCLAIMER
These data were compiled and digitized from the best source maps available. Locations of some features may be offset by 500 feet or more due to errors in the original source maps, the completion process, digitizing, or a combination of these factors. Documentation of the source materials used to create the directory that accompanies this map. It is not possible to demonstrate the accuracy of the data, and the Illinois State Geological Survey does not guarantee the validity or the accuracy of these data.

The image of the U.S.G.S. Pittsburg Quadrangle used as a basemap was projected from the original UTM to Lambert Conformal Conic.
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, or telephone (217) 244-4610.

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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.

The directory serves as a key to the accompanying mine map and provides basic information on the coal mines. 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.

MINING IN THE PITTSBURG QUADRANGLE

Mines extending into the Pittsburg Quadrangle from the Johnson City Quadrangle to the west opened in 1907 and 1908. Most of the mining here began later, around 1920. The coal was not so thick here as in the large mines on the West Frankfort Quadrangle to the northwest.

The Herrin Coal is the major resource, ranging from just over 5 feet up to 9 feet thick. Limestone was found immediately above the coal in some areas, and this made a good roof. This quadrangle encompasses an area where a gray shale above the coal was of variable thickness. Where the gray shale was thick or very thin, it held up fairly well. However, where the gray shale was of intermediate or changing thickness, the roof fell readily. Several mines noted slips in the shale. These often occurred where the shale changed thickness greatly over short distance. This transitional roof facies is noted for its instability (see Treworgy and others, 2000, Availability of the Herrin Coal for Mining in Illinois). Many of the mines had much water, which exacerbated some roof problems and floor heaving. Faults related to the Cottage Grove Fault System were noted in some mines, particularly the Orient No. 4 Mine (mine index 688) and the Zeigler No. 4 Mine (mine index 662).

Most of the mines in the Pittsburg Quadrangle operated for 20 to 30 years, however, so these geological problems must not have been genuine hindrances to mining and did not prohibitively increase the expense of mining. The Pittsburg Quadrangle is also at the eastern edge of the thick, low-sulfur coal deposits of the “Quality Circle”. These geological factors all controlled the pattern of mining over the quadrangle, where the northeastern one-third is essentially unmined.
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 ISGS 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 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
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 tipple locations Locations of all known former entry points to underground mines or the location of coal cleaning, tipple, 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 tipple. 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 tipple for underground mines was generally located near the main shaft or slope. At surface mines, coal was sometimes hauled to a central tipple several miles from the mine pit.

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

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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.


**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


PART II DIRECTORY OF MINES IN THE PITTSBURG QUADRANGLE

MINE SUMMARY SHEETS
A summary sheet on the geology and production history of each mine in the Pittsburg 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 152
Illinois Hi-Grade Coal Company, Keystone Mine

Type: Underground Total mined-out acreage shown: 233 Production indicates approximately 5 acres were mined after the map date.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>County</th>
<th>Township-Range</th>
<th>Section</th>
<th>Quarters-Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main shaft (10x18)</td>
<td>Williamson</td>
<td>8S 3E</td>
<td>35</td>
<td>SW SE NE</td>
</tr>
<tr>
<td>Air shaft</td>
<td>Williamson</td>
<td>8S 3E</td>
<td>35</td>
<td>SW SE NE</td>
</tr>
</tbody>
</table>

GEOLOGY

<table>
<thead>
<tr>
<th>Seam(s)</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Mining Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herrin</td>
<td>242-250</td>
<td>6.17</td>
<td>7.0</td>
</tr>
</tbody>
</table>

* The mining method over most of the mine is modified room & pillar. The room and pillar panel method is confined to the western and eastern edges of the mine.

Geologic Problems Reported: The roof conditions were reported to be very poor. The shale above the coal was very thick and contained small slips and persistent joints; the roof tended to come down not long after mining so that timbering was required. The mine was wet, and the underclay heaved slightly.

PRODUCTION HISTORY

<table>
<thead>
<tr>
<th>Company</th>
<th>Mine Name</th>
<th>Years</th>
<th>Production (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keystone-Big Muddy Coal Company</td>
<td>Keystone</td>
<td>1908-1917</td>
<td>114,804</td>
</tr>
<tr>
<td>Cameron Coal Company</td>
<td>Keystone</td>
<td>1917-1924</td>
<td>848,182</td>
</tr>
<tr>
<td>Wall Coal &amp; Mining Company</td>
<td>Keystone</td>
<td>1924-1927</td>
<td>374,615</td>
</tr>
<tr>
<td>Cameron Coal Company</td>
<td>Keystone</td>
<td>1928-1929</td>
<td>15,160</td>
</tr>
<tr>
<td>Illinois Hi-Grade Coal Company</td>
<td>Keystone</td>
<td>1929-1929</td>
<td>38,303</td>
</tr>
<tr>
<td>Illinois Hi-Grade Coal Company</td>
<td>Keystone</td>
<td>1929-1929</td>
<td>28,779 ***</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1,419,843</td>
</tr>
</tbody>
</table>

** Idle 1912-1917
*** Production after map date

Last reported production: December 1929

SOURCES OF DATA

<table>
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<tr>
<th>Source Map</th>
<th>Date</th>
<th>Original Scale</th>
<th>Digitized Scale</th>
<th>Map Type</th>
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<tr>
<td>Microfilm, document 353285</td>
<td>10-15-1929</td>
<td>1:2400</td>
<td>1:4637</td>
<td>Not final</td>
</tr>
</tbody>
</table>

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, depth, mining method.
Directory of Illinois Coal Mines (Williamson County) - Mine names, mine index, ownership, years of operation.
Mine notes (Williamson County) - Mine type, shaft location, seam, depth, thickness, geologic problems.
Microfilm map, document 353285, reel 03142, frames 229-230 - Shaft locations, mine outline, mining method.
Mine Index 168
Blaine Coal Company, Blue Hill Mine

Type: Underground  Total mined-out acreage shown: 306

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>County</th>
<th>Township-Range</th>
<th>Section</th>
<th>Quarters-Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main shaft</td>
<td>Williamson</td>
<td>9S 3E</td>
<td>2</td>
<td>NW SE NE</td>
</tr>
<tr>
<td>Air shaft</td>
<td>Williamson</td>
<td>9S 3E</td>
<td>2</td>
<td>SW NE NE</td>
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</tbody>
</table>

GEOLOGY

<table>
<thead>
<tr>
<th>Seam(s) Mined</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Mining Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herrin</td>
<td>160</td>
<td>4.0 6.5 5.17-5.5</td>
<td>RPP</td>
</tr>
</tbody>
</table>

Geologic Problems Reported: The roof was gray sandy shale ranging to a bluish gray shale. The blue shale was a better roof, but eventually it too would come down after exposure. Rolls and slips were present in the coal. The coal contained pyrite lenses and calcite in fracture fillings.

PRODUCTION HISTORY

<table>
<thead>
<tr>
<th>Company</th>
<th>Mine Name</th>
<th>Years</th>
<th>Production (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orchard Coal Company</td>
<td>Orchard No. 1</td>
<td>1918-1928 *</td>
<td>553,925</td>
</tr>
<tr>
<td>Ohio Valley Coal Company</td>
<td>Orchard</td>
<td>1929-1932 **</td>
<td>2,200</td>
</tr>
<tr>
<td>Blue Hill Coal Company</td>
<td>Blue Hill</td>
<td>1933-1937</td>
<td>345,717</td>
</tr>
<tr>
<td>Marvel Coal Company</td>
<td>Orchard</td>
<td>1937-1939</td>
<td>48,667</td>
</tr>
<tr>
<td>M. &amp; S. Coal Company</td>
<td>Orchard</td>
<td>1939-1942</td>
<td>39,990</td>
</tr>
<tr>
<td>Blue Hill Coal Company</td>
<td>Orchard No. 92</td>
<td>1943-1950 ***</td>
<td>726,052</td>
</tr>
<tr>
<td>Blaine Coal Company</td>
<td>Blue Hill</td>
<td>1951-1952</td>
<td>109,181</td>
</tr>
</tbody>
</table>

* Idle 1924-1928
** Idle 1930-1932
*** Idle 1949 & 1950

Last reported production: February 1952

SOURCES OF DATA

<table>
<thead>
<tr>
<th>Source Map</th>
<th>Date</th>
<th>Original Scale</th>
<th>Digitized Scale</th>
<th>Map Type</th>
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<td>2-8-1952</td>
<td>1:2400</td>
<td>1:4637</td>
<td>Final</td>
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</tbody>
</table>

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
Directory of Illinois Coal Mines (Williamson County) - Mine names, mine index, ownership, years of operation.
ENR Document 85/01 - Mining method.
Mine notes (Williamson County) - Mine type, shaft location, seam, depth, thickness, geologic problems.
Microfilm map, document 353236, reel 03142, frames 171-174 - Shaft locations, mine outline, mining method.
Mine Index 321  
Cosgrove-Meehan Coal Company, Cosgrove-Meehan No. 2 Mine

Type: Underground  Total mined-out acreage shown: 292

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>County</th>
<th>Township-Range</th>
<th>Section</th>
<th>Quarters-Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main shaft (9.5x15)</td>
<td>Williamson</td>
<td>8S 3E</td>
<td>34</td>
<td>NW NW SE</td>
</tr>
<tr>
<td>Air shaft (9x14)</td>
<td>Williamson</td>
<td>8S 3E</td>
<td>34</td>
<td>SW SW NE</td>
</tr>
</tbody>
</table>

GEOLOGY

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</tr>
</thead>
<tbody>
<tr>
<td>Herrin</td>
<td>216</td>
<td>6.5-8.0</td>
<td>RPP, some HER</td>
</tr>
</tbody>
</table>

Geologic Problems Reported: The roof varied between black and gray shale. The gray shale made a poor roof.

PRODUCTION HISTORY

<table>
<thead>
<tr>
<th>Company</th>
<th>Mine Name</th>
<th>Years</th>
<th>Production (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colp Coal Company</td>
<td>Colp</td>
<td>1908-1909</td>
<td>24,854</td>
</tr>
<tr>
<td>Pittsburg &amp; Big Muddy Coal Company</td>
<td>Pittsburg &amp; Big Muddy No. 1</td>
<td>1909-1911</td>
<td>16,600</td>
</tr>
<tr>
<td>Pittsburg &amp; Big Muddy Coal Company</td>
<td>Pittsburg &amp; Big Muddy No. 2</td>
<td>1911-1917</td>
<td>73,759</td>
</tr>
<tr>
<td>Marion &amp; Pittsburg Coal Company</td>
<td>Marion &amp; Pittsburg No. 2</td>
<td>1917-1921</td>
<td>502,799</td>
</tr>
<tr>
<td>Ernest Coal Company</td>
<td>Ernest No. 2</td>
<td>1921-1922</td>
<td>88,213</td>
</tr>
<tr>
<td>Cosgrove-Meehan Coal Company</td>
<td>Cosgrove-Meehan No. 2</td>
<td>1922-1929</td>
<td>788,187</td>
</tr>
</tbody>
</table>

* Idle 1914-1917  
** Idle 1925

Last reported production: March 1929

SOURCES OF DATA

<table>
<thead>
<tr>
<th>Source Map</th>
<th>Date</th>
<th>Original Scale</th>
<th>Digitized Scale</th>
<th>Map Type</th>
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</thead>
<tbody>
<tr>
<td>Microfilm, document 353186</td>
<td>1-1930</td>
<td>1:2400</td>
<td>1:4634</td>
<td>Final</td>
</tr>
</tbody>
</table>

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, shaft sizes.
Directory of Illinois Coal Mines (Williamson County) - Mine names, mine index, ownership, years of operation.
Mine notes (Williamson County) - Mine type, shaft location, seam, depth, thickness, geologic problems.
Microfilm map, document 353186, reel 03142, frames 90-91 - Shaft locations, mine outline, mining method.
Mine Index 423
Cosgrove-Meehan Coal Company, Cosgrove-Meehan No. 3 Mine

Type: Underground  Total mined-out acreage shown: 655

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>County</th>
<th>Township-Range</th>
<th>Section</th>
<th>Quarters-Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main shaft</td>
<td>Williamson</td>
<td>9S 4E</td>
<td>6</td>
<td>SE SE NE</td>
</tr>
<tr>
<td>Air shaft</td>
<td>Williamson</td>
<td>9S 4E</td>
<td>6</td>
<td>SE SE NE</td>
</tr>
</tbody>
</table>

GEOLOGY

<table>
<thead>
<tr>
<th>Seam(s) Mined</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Mining Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herrin</td>
<td>240-250</td>
<td>6.0-6.5</td>
<td>RPP, HER *</td>
</tr>
</tbody>
</table>

* Pillars were pulled in various parts of the mine.

Geologic Problems Reported: The roof was light gray shale. The coal seam undulated, but no information was given on effects to the coal thickness. The top coal was bony and very hard. The coal contained some calcite and pyrite fracture filling.

PRODUCTION HISTORY

<table>
<thead>
<tr>
<th>Company</th>
<th>Mine Name</th>
<th>Years</th>
<th>Production (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sanford Coal Company</td>
<td>Sanford</td>
<td>1920-1922</td>
<td>263,278</td>
</tr>
<tr>
<td>Cosgrove-Meehan Coal Company</td>
<td>Cosgrove-Meehan No. 3</td>
<td>1922-1930</td>
<td>2,463,588</td>
</tr>
<tr>
<td>Cosgrove-Meehan Coal Company</td>
<td>Cosgrove-Meehan No. 3</td>
<td>1930-1933</td>
<td>623,852 **</td>
</tr>
</tbody>
</table>

** Production after map date

Last reported production: February 1933 (reported idle through 1938)

SOURCES OF DATA

<table>
<thead>
<tr>
<th>Source Map</th>
<th>Date</th>
<th>Original Scale</th>
<th>Digitized Scale</th>
<th>Map Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microfilm, document 353045</td>
<td>1-1-1930</td>
<td>1:2400</td>
<td>1:1122</td>
<td>Not final ***</td>
</tr>
</tbody>
</table>

*** The mined area shown on the accompanying map is the approximate size expected for the reported production. This suggest that the mine outline is complete.

Annotated Bibliography  (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
Directory of Illinois Coal Mines (Williamson County) - Mine names, mine index, ownership, years of operation.
ENR Document 85/01 - Mining method.
Mine notes (Williamson County) - Mine type, shaft locations, seam, depth, thickness, geologic problems.
Microfilm map, document 353045, reel 03141, frame 229 - Shaft locations, mine outline, mining method.
Company map, Coal Section files (active mines), map of Orient No. 4 Mine (index 688) - Mine outline (western part).
**Mine Index 448**

**Old Ben Coal Corporation, Old Ben No. 9 Mine**

**Type:** Underground  **Total mined-out acreage shown:** 6,241

**SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS**

<table>
<thead>
<tr>
<th>Type</th>
<th>County</th>
<th>Township-Range</th>
<th>Section</th>
<th>Quarters-Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hoist shaft</td>
<td>Franklin</td>
<td>7S 3E</td>
<td>20</td>
<td>SE NE SE</td>
</tr>
<tr>
<td>A shaft</td>
<td>Franklin</td>
<td>7S 3E</td>
<td>20</td>
<td>SE SW NE</td>
</tr>
<tr>
<td>C shaft</td>
<td>Franklin</td>
<td>7S 3E</td>
<td>29</td>
<td>NE SE SE</td>
</tr>
<tr>
<td>D shaft</td>
<td>Franklin</td>
<td>7S 3E</td>
<td>27</td>
<td>SW SE SW</td>
</tr>
<tr>
<td>E shaft</td>
<td>Williamson</td>
<td>8S 3E</td>
<td>2</td>
<td>SW SW NW</td>
</tr>
</tbody>
</table>

A shaft was a material, air and escapement shaft; the hoist shaft may have been the B shaft; C shaft was an auxiliary shaft; D shaft was auxiliary, air and escapement; E shaft was an air, man and material shaft.

**GEOLOGY**

<table>
<thead>
<tr>
<th>Seam(s) Mined</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Mining Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herrin</td>
<td>440-482</td>
<td>6.0 9.3 9.0</td>
<td>HER *</td>
</tr>
</tbody>
</table>

* RPP over most of mine; some pillars removed over most of the mine, in some areas very few pillars left.

**Geologic Problems Reported:** The mine had some gas. An explosion in 1923 killed one man. Top coal (15 to 24 inches) was generally left to protect the gray shale roof. The underclay showed a tendency to heave and squeeze, sometimes even before mining was completed.

**PRODUCTION HISTORY**

<table>
<thead>
<tr>
<th>Company</th>
<th>Mine Name</th>
<th>Years</th>
<th>Production (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Old Ben Coal Corporation</td>
<td>Old Ben No. 9</td>
<td>1913-1968 **</td>
<td>42,563,384</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>42,563,384</td>
</tr>
</tbody>
</table>

**Idle 1929-1943. One of the shafts was used for disposal of acid water after 1968.**

Last reported production: February 1968

**SOURCES OF DATA**

<table>
<thead>
<tr>
<th>Source Map</th>
<th>Date</th>
<th>Original Scale</th>
<th>Digitized Scale</th>
<th>Map Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company, 4102 i5.1-127</td>
<td>2-18-1968</td>
<td>1:4800</td>
<td>1:9931</td>
<td>Final</td>
</tr>
</tbody>
</table>

**Annotated Bibliography (data source, brief description of information):**

Coal Reports - Production, ownership, years of operation, depth, mining method, geologic problems.
Directory of Illinois Coal Mines (Franklin County) - Mine names, mine index, ownership, years of operation.
ENR Document 85/01 - Mining method.
Mine notes (Franklin County) - Mine type, shaft locations, seam, thickness, geologic problems.
Company map, Old Ben Coal Company Archive Collection - Shaft locations, mine outline, mining method.
Company map, ISGS map library, 4102 i5.1-127 - Mine outline (south).
Mine Index 662
Zeigler Coal Company, Zeigler No. 4 Mine

Type: Underground    Total mined-out acreage shown: 4,676

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>County</th>
<th>Township-Range</th>
<th>Section</th>
<th>Quarters-Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main slope</td>
<td>Williamson</td>
<td>8S 3E</td>
<td>9</td>
<td>SE SW SW</td>
</tr>
<tr>
<td>Air shaft</td>
<td>Williamson</td>
<td>8S 3E</td>
<td>9</td>
<td>SW SE SW</td>
</tr>
</tbody>
</table>

GEOLOGY

<table>
<thead>
<tr>
<th>Seam(s) Mined</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Mining Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herrin</td>
<td>232-245</td>
<td>7.0-8.58</td>
<td>RPP</td>
</tr>
</tbody>
</table>

Geologic Problems Reported: The Cottage Grove Fault System ran through this mine (see ISGS Circular 522, Cottage Grove Fault System). Vertical offsets were commonly about 5.5 feet; horizontal displacement was about 20 feet. This resulted in prominent east-west features in the roof. The roof was gray shale with slips and slickenslides, and it tended to fall if not bolted. The coal had a few shaly partings and some thin pyrite facings on bedding planes. The working face was very wet. Water and gas bubbled out of the rock near stoppings. Coal balls were present in the upper part of the seam.

PRODUCTION HISTORY

<table>
<thead>
<tr>
<th>Company</th>
<th>Mine Name</th>
<th>Years</th>
<th>Production (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consolidated Coal Company</td>
<td>Lake Creek</td>
<td>1944-1949</td>
<td>2,438,870</td>
</tr>
<tr>
<td>Consolidated Coal Company</td>
<td>Buckhorn</td>
<td>1950-1950</td>
<td>546,063</td>
</tr>
<tr>
<td>Bell &amp; Zoller Coal &amp; Mining Company</td>
<td>Bell &amp; Zoller No. 2</td>
<td>1951-1953</td>
<td>2,126,890</td>
</tr>
<tr>
<td>Bell &amp; Zoller Coal Company</td>
<td>Buckhorn</td>
<td>1954-1959</td>
<td>5,237,271</td>
</tr>
<tr>
<td>Bell &amp; Zoller Coal Company</td>
<td>Zeigler No. 4</td>
<td>1960-1970</td>
<td>12,148,892</td>
</tr>
<tr>
<td>Zeigler Coal Company</td>
<td>Zeigler No. 4</td>
<td>1971-1980</td>
<td>4,746,001</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>27,243,987</td>
</tr>
</tbody>
</table>

Last reported production: July 1980

SOURCES OF DATA

<table>
<thead>
<tr>
<th>Source Map</th>
<th>Date</th>
<th>Original Scale</th>
<th>Digitized Scale</th>
<th>Map Type</th>
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<td>7-31-1980</td>
<td>1:4800</td>
<td>1:4800</td>
<td>Final</td>
</tr>
</tbody>
</table>

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, depth, thickness.
Directory of Illinois Coal Mines (Williamson County) - Mine names, mine index, ownership, years of operation.
ENR Document 85/01 - Mining method.
Mine notes (Williamson County) - Mine type, slope location, seam, thickness, geologic problems.
State Archive map, IL_798_03, courtesy of Robert Gibson, IDNR - Slope & shaft locations, mine outline, mining method.
Mine Index 688  
Freeman United Coal Mining Corporation, Orient No. 4 Mine

Type: Underground Total mined-out acreage shown: 6,462

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>County</th>
<th>Township-Range</th>
<th>Section</th>
<th>Quarters-Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main slope</td>
<td>Williamson</td>
<td>8S 3E</td>
<td>28</td>
<td>NW NE SE</td>
</tr>
<tr>
<td>Air slope</td>
<td>Williamson</td>
<td>8S 3E</td>
<td>28</td>
<td>SW NE SE</td>
</tr>
<tr>
<td>Air / man / material slope</td>
<td>Williamson</td>
<td>8S 3E</td>
<td>26</td>
<td>1750 FNL, 850 FEL</td>
</tr>
<tr>
<td>Air shaft (10' - upcast)</td>
<td>Williamson</td>
<td>8S 3E</td>
<td>26</td>
<td>SE SE NE</td>
</tr>
<tr>
<td>Shaft (14')</td>
<td>Williamson</td>
<td>8S 4E</td>
<td>30</td>
<td>1039 FSL, 823 FEL</td>
</tr>
</tbody>
</table>

GEOLOGY

<table>
<thead>
<tr>
<th>Seam(s) Mined</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Mining Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herrin</td>
<td>275-300</td>
<td>5.5-7.33</td>
<td>RPP, HER *</td>
</tr>
</tbody>
</table>

* The high-extraction retreat method was more prevalent in the east half of the mine.

Geologic Problems Reported: The mine intersected some normal or strike-slip faults, all part of the Cottage Grove Fault System (see ISGS Circular 522, Cottage Grove Fault System). Most of the fault offsets were small, from a few inches to just less than 15 feet, but a few were up to 80 feet. The source map indicated “bad top” near the faulted areas. An oil seep was noted, and water and gas also entered along the fault planes. Many of the western parts of the mine noted water and bad top at the furthest extent of mining. Faults were reported throughout the mine, sometimes requiring a change in the configuration of rooms. Older portions of the mine collected water and were sealed. The gray shale roof displayed slickensides. In some areas of the mine, the roof was black shale. The coal seam contained some pyrite and calcite filled some cleats.

PRODUCTION HISTORY

<table>
<thead>
<tr>
<th>Company</th>
<th>Mine Name</th>
<th>Years</th>
<th>Production (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freeman Coal Mining Corporation</td>
<td>Freeman No. 4</td>
<td>1952-1960</td>
<td>8,484,508</td>
</tr>
<tr>
<td>Freeman Coal Mining Corporation</td>
<td>Orient No. 4</td>
<td>1961-1974</td>
<td>15,834,003</td>
</tr>
<tr>
<td>Freeman United Coal Mining Corporation</td>
<td>Orient No. 4</td>
<td>1975-1987</td>
<td>11,357,238</td>
</tr>
</tbody>
</table>

Last reported production: May 1987

SOURCES OF DATA

<table>
<thead>
<tr>
<th>Source Map</th>
<th>Date</th>
<th>Original Scale</th>
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<th>Map Type</th>
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<tr>
<td>Company, Coal Section files</td>
<td>5-15-1987</td>
<td>1:12000</td>
<td>1:12000</td>
<td>Final</td>
</tr>
</tbody>
</table>

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, thickness.
Directory of Illinois Coal Mines (Williamson County) - Mine names, mine index, ownership, years of operation.
ENR Document 85/01 - Mining method.
Mine notes (Williamson County) - Mine type, slope & shaft locations, seam, depth, geologic problems.
Company map, Coal Section files - Slope & shaft locations, mine outline, mining method, geologic problems.
Mine Index 702
Amax Coal Company, Delta Mine

Type: Surface    Total mined-out acreage shown: 12,942 (2,892 in the Danville Coal, 7,668 in the Herrin Coal and 2,382 in the Springfield Coal)

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>County</th>
<th>Township-Range</th>
<th>Section</th>
<th>Quarters-Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tipple</td>
<td>Williamson</td>
<td>9S 4E</td>
<td>33</td>
<td>NW NW NE</td>
</tr>
</tbody>
</table>

Pits were located in all or parts of Sections 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, 26, 27, 28, 29, 26, 33, 34, 35, 36 of T9S-R4E, 2, 3, 4, 5, 8, 9, 10, 11, 31 of T9S-R5E, and 2, 3 of T10S-R4E.

GEOLOGY

<table>
<thead>
<tr>
<th>Seam(s) Mined</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Mining Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Danville</td>
<td>43</td>
<td>1.83</td>
<td>Surface</td>
</tr>
<tr>
<td>Herrin (1943-1997)</td>
<td>28-120</td>
<td>4.58-7.0</td>
<td>Surface</td>
</tr>
<tr>
<td>Springfield (1935-1943)</td>
<td>75-101</td>
<td>4.17-4.33</td>
<td>Surface</td>
</tr>
</tbody>
</table>

Geologic Problems Reported:

PRODUCTION HISTORY

<table>
<thead>
<tr>
<th>Company</th>
<th>Mine Name</th>
<th>Years</th>
<th>Production (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delta Coal Mining Company</td>
<td>Delta</td>
<td>1935-1946</td>
<td>5,817,335</td>
</tr>
<tr>
<td>Delta Collieries Corporation</td>
<td>Delta</td>
<td>1946-1956</td>
<td>6,312,742</td>
</tr>
<tr>
<td>Carmac Coal Company</td>
<td>Delta</td>
<td>1957-1962</td>
<td>4,937,465</td>
</tr>
<tr>
<td>Thunderbird Collieries Corporation</td>
<td>Delta</td>
<td>1963-1966</td>
<td>3,901,411</td>
</tr>
<tr>
<td>Ayrshire Collieries Corporation</td>
<td>Delta</td>
<td>1967-1968</td>
<td>1,860,290</td>
</tr>
<tr>
<td>Ayrshire Coal Company, Div. AMAX</td>
<td>Delta</td>
<td>1969-1971</td>
<td>2,804,014</td>
</tr>
<tr>
<td>Amax Coal Company</td>
<td>Delta</td>
<td>1972-1997</td>
<td>37,454,266</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>63,087,523 *</td>
</tr>
</tbody>
</table>

* Some production is from Saline County.

Last reported production: 1997

SOURCES OF DATA

<table>
<thead>
<tr>
<th>Source Map</th>
<th>Date</th>
<th>Original Scale</th>
<th>Digitized Scale</th>
<th>Map Type</th>
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</thead>
<tbody>
<tr>
<td>Company, Coal Section files</td>
<td>2-6-1996</td>
<td>–</td>
<td>–</td>
<td>Final</td>
</tr>
</tbody>
</table>

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, seam, depth, thickness.
Directory of Illinois Coal Mines (Williamson County) - Mine names, mine index, ownership, years of operation.
Mine notes (Williamson County) - Mine type, mine location, seam, geologic problems.
Company map, Coal Section files, digital file - Mine outline, mining method.
 Mine Index 816  
Standard Coal & Coke Company, Scranton No. 1 Mine  

Type: Underground  Total mined-out acreage shown: 581  

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS  

<table>
<thead>
<tr>
<th>Type</th>
<th>County</th>
<th>Township-Range</th>
<th>Section</th>
<th>Quarters-Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main shaft (9x16)</td>
<td>Williamson</td>
<td>8S 3E</td>
<td>33</td>
<td>NE SE SW</td>
</tr>
<tr>
<td>Air shaft</td>
<td>Williamson</td>
<td>8S 3E</td>
<td>33</td>
<td>NE SE SW</td>
</tr>
</tbody>
</table>

GEOLOGY  

<table>
<thead>
<tr>
<th>Seam(s) Mined</th>
<th>Depth (ft)</th>
<th>Mining</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min</td>
<td>Max</td>
</tr>
<tr>
<td>Herrin</td>
<td>6.0</td>
<td>9.0</td>
</tr>
</tbody>
</table>

Geologic Problems Reported: The roof was a competent limestone in some places. The remaining roof was gray and black shale. The shales commonly had slips, slickenslides and faults. The coal contained pyrite and clay in lenses, but overall the impurities were low.

PRODUCTION HISTORY  

<table>
<thead>
<tr>
<th>Company</th>
<th>Mine Name</th>
<th>Years</th>
<th>Production (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scranton &amp; Big Muddy Coal Mining Co.</td>
<td>Scranton &amp; Big Muddy No. 1</td>
<td>1907-1920</td>
<td>1,814,342</td>
</tr>
<tr>
<td>Scranton Coal Mining Company</td>
<td>Scranton No. 1</td>
<td>1920-1923</td>
<td>1,662,413</td>
</tr>
<tr>
<td>Standard Coal &amp; Coke Company *</td>
<td>Scranton No. 1</td>
<td>1925-1925</td>
<td>11,553</td>
</tr>
</tbody>
</table>

* Also known as Charter Coal Company, but not listed in Coal Reports under this name.

Last reported production: 1925 (July to December)

SOURCES OF DATA  

<table>
<thead>
<tr>
<th>Source Map</th>
<th>Date</th>
<th>Original Scale</th>
<th>Digitized Scale</th>
<th>Map Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microfilm, document 353208</td>
<td>4-1923</td>
<td>1:2400</td>
<td>1:4138</td>
<td>Not final **</td>
</tr>
<tr>
<td>ISGS map library, 4103.W52 i5.1-179</td>
<td>1-1-1969</td>
<td>1:2400</td>
<td>1:2400</td>
<td>Secondary source</td>
</tr>
<tr>
<td>ISGS map library, 4103.W52 i5.1-189</td>
<td>8-11-1934</td>
<td>1:63360</td>
<td>1:63360</td>
<td>Secondary source</td>
</tr>
</tbody>
</table>

** The mined area shown on the accompanying map is the approximate size expected for the production reported. This suggests that the mine outline is complete.

Annotated Bibliography (data source, brief description of information)  

Coal Reports - Production, ownership, years of operation.
Directory of Illinois Coal Mines (Williamson County) - Mine names, mine index, ownership, years of operation.
Mine notes (Williamson County) - Mine type, shaft locations, seam, depth, thickness, geologic problems.
Microfilm map, document 353208, reel 03142, frames 119-124 - Shaft locations, mine outline, mining method.
ISGS map library, 4103.W52 i5.1-179, map or Orient No. 4 Mine (mine index 688) - Mine outline (north).
Composite map from J. C. Quade field notes, ISGS map library, 4103.W52 i5.1-189 - Mine outline (east).
Mine Index 911
Sahara Coal Company, Inc., Sahara No. 21 Mine

Type: Underground     Total mined-out acreage shown: 3,107

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>County</th>
<th>Township-Range</th>
<th>Section</th>
<th>Quarters-Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main slope</td>
<td>Saline</td>
<td>9S 5E</td>
<td>17</td>
<td>NE SE SE</td>
</tr>
<tr>
<td>Air shaft</td>
<td>Saline</td>
<td>9S 5E</td>
<td>17</td>
<td>SE SE SE</td>
</tr>
</tbody>
</table>

GEOLOGY

<table>
<thead>
<tr>
<th>Seam(s) Mined</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Mining Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Springfield</td>
<td>210-280</td>
<td>6.0</td>
<td>4.3-5.0</td>
</tr>
</tbody>
</table>

* Longwall mining was done in the northwest part of the mine. Pillars were pulled in several areas in the northern and southwestern parts of the mine.

Geologic Problems Reported: The roof was good throughout. Falls occurred only along faulted or sheared roof areas. There were many discontinuous faults and fractures.

PRODUCTION HISTORY

<table>
<thead>
<tr>
<th>Company</th>
<th>Mine Name</th>
<th>Years</th>
<th>Production (tons)</th>
</tr>
</thead>
</table>

Last reported production: 1993

SOURCES OF DATA

<table>
<thead>
<tr>
<th>Source Map</th>
<th>Date</th>
<th>Original Scale</th>
<th>Digitized Scale</th>
<th>Map Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company, 10-5-50</td>
<td>10-20-1994</td>
<td>1:12000</td>
<td>1:12000</td>
<td>Final</td>
</tr>
</tbody>
</table>

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, depth, thickness.
Directory of Illinois Coal Mines (Saline County) - Mine names, mine index, ownership, years of operation.
ENR Document 85/01 - Mining method.
Mine notes (Saline County) - Mine type, slope location, seam, thickness, geologic problems.
Company map, ISGS Coal Section files, 10-5-50 - Shaft & slope locations, mine outline, mining method.
Mine Index 962  
**Old Ben Coal Corporation, Old Ben No. 25 Mine**

**Type:** Underground  
**Total mined-out acreage shown:** 4,503

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>County</th>
<th>Township-Range</th>
<th>Section</th>
<th>Quarters-Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A shaft (hoist)</td>
<td>Franklin</td>
<td>7S 3E</td>
<td>26</td>
<td>NW NE NW</td>
</tr>
<tr>
<td>B shaft (man &amp; material)</td>
<td>Franklin</td>
<td>7S 3E</td>
<td>26</td>
<td>SE NE NW</td>
</tr>
</tbody>
</table>

### GEOLOGY

<table>
<thead>
<tr>
<th>Seam(s) Mined</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Mining Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herrin</td>
<td>598</td>
<td>6.5-8.5</td>
<td>LW</td>
</tr>
</tbody>
</table>

**Geologic Problems Reported:** A group of small faults was mapped along the 7th through 10th Main East entries. These were high angle, normal faults that strike NNW with displacements from a few inches to about 1 foot. These faults had the typical trend and style of subsidiary faults of the Cottage Grove Fault System, the major faults of which lie about 6 miles south of this mine. Although the faults were small, they weakened the roof. A large roof fall developed where such a fault ran the length of a crosscut between the 9th and 10th Main. Roof falls tended to be in north-south trending mains and rooms. Although top coal was left to protect the roof (composed primarily of gray shales), many falls of 10 feet or more occurred. The Energy Shale had a preferred fracture pattern trending northeast-southwest. Rolls were present, reducing the coal thickness to 2 feet. These rolls were up to 30 feet wide and 5 feet deep, and commonly occurred in parallel sets. Recently active faces bled gas. Concentrated masses of coal balls were found.

### PRODUCTION HISTORY

<table>
<thead>
<tr>
<th>Company</th>
<th>Mine Name</th>
<th>Years</th>
<th>Production (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Old Ben Coal Corporation</td>
<td>Old Ben No. 25</td>
<td>1977-1994</td>
<td>34,315,692</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>34,315,692</td>
</tr>
</tbody>
</table>

* This mine became the National Coal Mine Museum in the 1990s.

**Last reported production:** August 1994

### SOURCES OF DATA

<table>
<thead>
<tr>
<th>Source Map</th>
<th>Date</th>
<th>Original Scale</th>
<th>Digitized Scale</th>
<th>Map Type</th>
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</thead>
<tbody>
<tr>
<td>Company map</td>
<td>3-27-1995</td>
<td>1:24000</td>
<td>1:24000</td>
<td>Final</td>
</tr>
<tr>
<td>Company, 10-3-11</td>
<td>11-7-1977</td>
<td>1:1200</td>
<td>1:1200</td>
<td>Not final</td>
</tr>
</tbody>
</table>

**Annotated Bibliography (data source, brief description of information)**

- Coal Reports - Production, ownership, years of operation, thickness.
- Directory of Illinois Coal Mines (Franklin County) - Mine names, mine index, ownership, years of operation.
- ENR Document 85/01 - Mining method.
- Mine notes (Franklin County) - Mine type, shaft location (A), seam, depth, geologic problems.
- Company map, ISGS Coal Section files - Shaft location (A), mine outline, mining method.
- Company map, ISGS Coal Section files, 10-3-11 - Location of B shaft.
Mine Index 987
Southern Illinois Mining Company, Addwest No. 2 Mine

Type: Underground  Total mined-out acreage shown: 313

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>County</th>
<th>Township-Range</th>
<th>Section</th>
<th>Quarters-Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main drift</td>
<td>Williamson</td>
<td>9S 3E</td>
<td>14</td>
<td>SW NE NE</td>
</tr>
<tr>
<td>Air drift</td>
<td>Williamson</td>
<td>9S 3E</td>
<td>14</td>
<td>SW NE NE</td>
</tr>
<tr>
<td>Drift</td>
<td>Williamson</td>
<td>9S 3E</td>
<td>14</td>
<td>SW NE NE</td>
</tr>
<tr>
<td>Drift</td>
<td>Williamson</td>
<td>9S 3E</td>
<td>14</td>
<td>SW NE NE</td>
</tr>
</tbody>
</table>

GEOLOGY

<table>
<thead>
<tr>
<th>Seam(s) Mined</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Mining Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Springfield</td>
<td>70-96</td>
<td>4.0 5.0 4.5</td>
<td>BRP</td>
</tr>
</tbody>
</table>

Geologic Problems Reported: The gray shale made a good roof, except near the intake air entries, where it was weakened by condensation moisture. In several locations falls occurred in the gray shale. The shale tended to show dampness and some small slips and slickenslides at roof fall locations.

PRODUCTION HISTORY

<table>
<thead>
<tr>
<th>Company</th>
<th>Mine Name</th>
<th>Years</th>
<th>Production (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Morris Coal Company, Inc.</td>
<td>Morris No. 5</td>
<td>1977-1979</td>
<td>506,198</td>
</tr>
<tr>
<td>Classic Coal Corporation *</td>
<td>Classic No. 5</td>
<td>1980-1981</td>
<td>537,876</td>
</tr>
<tr>
<td>Southern Illinois Mining Company</td>
<td>Addwest No. 2</td>
<td>1991-1992</td>
<td>283,141</td>
</tr>
</tbody>
</table>

* Owned by Adams Resources & Energy, Inc.  The mine was idled for over 2 years (fans & pumps continued to run), and was re-opened as Addwest No. 2 Mine in 1991.

Last reported production: 1992

SOURCES OF DATA

<table>
<thead>
<tr>
<th>Source Map</th>
<th>Date</th>
<th>Original Scale</th>
<th>Digitized Scale</th>
<th>Map Type</th>
</tr>
</thead>
</table>

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, depth.
Directory of Illinois Coal Mines (Williamson County) - Mine names, mine index, ownership, years of operation.
Mine notes (Williamson County) - Mine type, drift location, seam, thickness, geologic problems.
Company map, Coal Section files, 1-41-11 - Drift locations, mine outline, mining method.
Mine Index 1039
Mach Mining Company, LLC, Pond Creek Mine

Type: Underground    Total mined-out acreage shown: 3,314

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>County</th>
<th>Township-Range</th>
<th>Section</th>
<th>Quarters-Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main slope</td>
<td>Williamson</td>
<td>8S 3E</td>
<td>12</td>
<td>SE NW NW</td>
</tr>
</tbody>
</table>

GEOLOGY

<table>
<thead>
<tr>
<th>Seam(s) Mined</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Mining Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herrin</td>
<td>460</td>
<td>6.5</td>
<td>LW</td>
</tr>
</tbody>
</table>

Geologic Problems Reported: (Geologic problems are not reported for active mines.)

PRODUCTION HISTORY

<table>
<thead>
<tr>
<th>Company</th>
<th>Mine Name</th>
<th>Years</th>
<th>Production (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Williamson Energy</td>
<td>Mach 1</td>
<td>2006-2006</td>
<td>none reported</td>
</tr>
<tr>
<td>Mach Mining Company, LLC</td>
<td>Pond Creek</td>
<td>2006-</td>
<td>17,948,166 *</td>
</tr>
</tbody>
</table>

* Production shown is through 2010, the latest available Coal Report.

Last reported production:

SOURCES OF DATA

<table>
<thead>
<tr>
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<th>Original Scale</th>
<th>Digitized Scale</th>
<th>Map Type</th>
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<tr>
<td>Coal section digital files</td>
<td>3-29-2009</td>
<td>1:6000</td>
<td>1:6000</td>
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<tr>
<td>Coal section digital files</td>
<td>2-29-2012</td>
<td>1:4800</td>
<td>1:4800</td>
<td>Not final</td>
</tr>
</tbody>
</table>

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, seam depth, thickness.
Directory of Illinois Coal Mines (Williamson County) - Mine names, mine index, ownership, years of operation.
Coal section digital files (2009 yearly updates) - Slope location, mine outline, mining method.
Coal section digital files (2012 yearly updates) - Mine outline, mining method.
Mine Index 3669
Peabody Coal Company, Utility Highwall Mine

Type: Underground    Total mined-out acreage shown: 248

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>County</th>
<th>Township-Range</th>
<th>Section</th>
<th>Quarters-Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main drift</td>
<td>Williamson</td>
<td>9S 3E</td>
<td>11</td>
<td>NW NE SW</td>
</tr>
<tr>
<td>Air drift</td>
<td>Williamson</td>
<td>9S 3E</td>
<td>11</td>
<td>NW NE SW</td>
</tr>
<tr>
<td>Air shaft</td>
<td>Williamson</td>
<td>9S 3E</td>
<td>11</td>
<td>NE NW SW</td>
</tr>
</tbody>
</table>

GEOLOGY

<table>
<thead>
<tr>
<th>Seam(s) Mined</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Mining Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herrin</td>
<td>60-90</td>
<td>5.67-6.17</td>
<td>RPP</td>
</tr>
</tbody>
</table>

Geologic Problems Reported:

PRODUCTION HISTORY

<table>
<thead>
<tr>
<th>Company</th>
<th>Mine Name</th>
<th>Years</th>
<th>Production (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peabody Coal Company</td>
<td>Utility Highwall</td>
<td>1965-1968</td>
<td>1,187,369</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>1,187,369</td>
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Last reported production: August 1968

SOURCES OF DATA

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<td>8-1968</td>
<td>1:2400</td>
<td>1:4800</td>
<td>Final</td>
</tr>
</tbody>
</table>

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, seam depth, thickness.
Directory of Illinois Coal Mines (Williamson County) - Mine names, mine index, ownership, years of operation.
Mine notes (Williamson County) - Mine type, drift location.
Microfilm map, document 353292, reel 03142, frame 249 - Drift & shaft locations, mine outline, mining method.
Mine Index 4041
Peabody Coal Company, Utility Mine

Type: Surface  Total mined-out acreage shown:  500    Production indicates approximately 200 acres were mined. The remainder of the area was mined by smaller unaffiliated mines.

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>County</th>
<th>Township-Range</th>
<th>Section</th>
<th>Quarters-Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tipple</td>
<td>Williamson</td>
<td>9S 3E</td>
<td>4</td>
<td>SE SW SE</td>
</tr>
<tr>
<td>Pits</td>
<td>Williamson</td>
<td>9S 3E</td>
<td>8-14</td>
<td></td>
</tr>
</tbody>
</table>

GEOLOGY

<table>
<thead>
<tr>
<th>Seam(s)</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Mining Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herrin</td>
<td>20-57</td>
<td>5.67-8.0</td>
<td>Surface</td>
</tr>
<tr>
<td>Springfield</td>
<td>40-65</td>
<td>3.58</td>
<td>Surface</td>
</tr>
</tbody>
</table>

Geologic Problems Reported:

PRODUCTION HISTORY

<table>
<thead>
<tr>
<th>Company</th>
<th>Mine Name</th>
<th>Years</th>
<th>Production (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Utility Coal Company</td>
<td>Utility</td>
<td>1958-1963</td>
<td>1,266,648</td>
</tr>
<tr>
<td>Peabody Coal Company</td>
<td>Utility</td>
<td>1963-1966</td>
<td>759,763</td>
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</tbody>
</table>

Last reported production: February 1966

SOURCES OF DATA

<table>
<thead>
<tr>
<th>Source Map</th>
<th>Date</th>
<th>Original Scale</th>
<th>Digitized Scale</th>
<th>Map Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company, 4103.W52 i5.1-178</td>
<td>8-29-1969</td>
<td>1:24000</td>
<td>1:2400</td>
<td>Final</td>
</tr>
</tbody>
</table>

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.
Directory of Illinois Coal Mines (Williamson County) - Mine names, mine index, ownership, years of operation.
Mine notes (Williamson County) - Mine type, tipple location.
Company map, ISGS map library, 4103.W52 i5.1-178 - Mine outline
Mine Index 4065
Pickford Coal Company, Pickford No. 2 Mine

Type: Underground  Total mined-out acreage shown: 117  This mine was partially surface-mined by the Utility Mine (mine index 4041).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>County</th>
<th>Township-Range</th>
<th>Section</th>
<th>Quarters-Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main slope</td>
<td>Williamson 9S 3E</td>
<td>11</td>
<td>NW SW SE</td>
<td></td>
</tr>
<tr>
<td>Air shaft</td>
<td>Williamson 9S 3E</td>
<td>11</td>
<td>NW SW SE</td>
<td></td>
</tr>
<tr>
<td>New slope</td>
<td>Williamson 9S 3E</td>
<td>11</td>
<td>NW SW SE *</td>
<td></td>
</tr>
</tbody>
</table>

* Not shown on accompanying map because of later surface mining.

GEOLOGY

<table>
<thead>
<tr>
<th>Seam(s) Mined</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Mining Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herrin</td>
<td>60</td>
<td>5.0-6.0</td>
<td>MRP</td>
</tr>
</tbody>
</table>

Geologic Problems Reported:

PRODUCTION HISTORY

<table>
<thead>
<tr>
<th>Company</th>
<th>Mine Name</th>
<th>Years</th>
<th>Production (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moren Coal Company</td>
<td>Moren</td>
<td>1933-1947</td>
<td>517,949</td>
</tr>
<tr>
<td>Pickford Coal Company</td>
<td>Moren</td>
<td>1947-1948</td>
<td>69,206</td>
</tr>
<tr>
<td>Pickford Coal Company</td>
<td>Pickford No. 2</td>
<td>1949-1950</td>
<td>24,810</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>611,965</td>
</tr>
</tbody>
</table>

Last reported production: December 1950

SOURCES OF DATA

<table>
<thead>
<tr>
<th>Source Map</th>
<th>Date</th>
<th>Original Scale</th>
<th>Digitized Scale</th>
<th>Map Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microfilm, document 353222</td>
<td>4-7-1951</td>
<td>1:1200</td>
<td>1:2069</td>
<td>Final</td>
</tr>
</tbody>
</table>

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, thickness, depth.
Directory of Illinois Coal Mines (Williamson County) - Mine names, mine index, ownership, years of operation.
Mine notes (Williamson County) - Mine type, slope location, seam, depth, thickness.
Microfilm map, document 353222, reel 03142, frames 147 & 148 - Slope & shaft locations, mine outline, mining method.
Mine Index 6792
Wallace Coal Company, Wallace Mine

Type: Underground  Total mined-out acreage shown: 544  Part of the southernmost portion of the mine was later surface mined by Peabody Utility Mine (mine index 4041).

SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>County</th>
<th>Township-Range</th>
<th>Section</th>
<th>Quarters-Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main slope</td>
<td>Williamson</td>
<td>9S 3E</td>
<td>4</td>
<td>SE SW SE</td>
</tr>
<tr>
<td>Air shaft</td>
<td>Williamson</td>
<td>9S 3E</td>
<td>4</td>
<td>SW SW SE</td>
</tr>
<tr>
<td>Air shaft</td>
<td>Williamson</td>
<td>9S 3E</td>
<td>3</td>
<td>NW SW SE</td>
</tr>
</tbody>
</table>

GEOLOGY

<table>
<thead>
<tr>
<th>Seam(s) Mined</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Mining Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herrin</td>
<td>90</td>
<td>6.0-7.5</td>
<td>MRP</td>
</tr>
</tbody>
</table>

Geologic Problems Reported: There was no apparent faulting in this mine. The roof was good, with a competent limestone a few inches above the coal. One location of bad top was noted on the source map, in the NE NW 10-T9S-R3E, which appears to have prevented access to some reserves. The coal was high in sulfur; pyrite was separated at picking tables and by screening.

PRODUCTION HISTORY

<table>
<thead>
<tr>
<th>Company</th>
<th>Mine Name</th>
<th>Years</th>
<th>Production (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wallace Coal Company</td>
<td>Wallace, or Bruce Mine</td>
<td>1930-1952</td>
<td>2,903,963</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2,903,963</td>
</tr>
</tbody>
</table>

Last reported production: April 1952

SOURCES OF DATA

<table>
<thead>
<tr>
<th>Source Map</th>
<th>Date</th>
<th>Original Scale</th>
<th>Digitized Scale</th>
<th>Map Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microfilm, document 353079</td>
<td>4-30-1952</td>
<td>1:2400</td>
<td>1:5296</td>
<td>Final</td>
</tr>
<tr>
<td>Microfilm, document 353252</td>
<td>10-10-1925</td>
<td>1:2400</td>
<td>1:4965</td>
<td>Secondary source</td>
</tr>
</tbody>
</table>

Annotated Bibliography: (data source, brief description of information)

Coal Reports - Production, ownership, years of operation, thickness.
Directory of Illinois Coal Mines (Williamson County) - Mine names, mine index, ownership, years of operation.
Mine notes (Williamson County) - Mine type, slope location, seam, depth, thickness, geologic problems.
Microfilm map, document 353079, reel 03141, frames 273 & 274 - Slope location, mine outline, mining method geologic problems.
Microfilm map, document 353252, reel 03142, frame 193, map of West Virginia Mine (mine index 169) - Mine outline (west side).
Company map, ISGS map library, 4103.W52 i5.1-119 - Air shaft location.
MINES WHOSE LOCATIONS ARE NOT KNOWN, PITTSBURG 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 Pittsburg 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 4,220 (4,170 underground and 50 uncertain method), which would represent approximately 1 acre, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

PITTSBURG

Freels (B.), 1925-1925 50 tons
Charity Coal Company, 1932-1932, underground 2,900 tons
Kelton (Walter) Coal Company, 1934-1935, underground 1,270 tons
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Funding for this project was supplied by the Illinois Department of Transportation.