

#### **Coal Mines in Illinois Pyatts Quadrangle**

# Perry County, Illinois

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



#### - 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 permiting) Company

ISGS Index No., Years of Operation

Disclaimer
Please check the Coal Section at the Illinois State Geological Survey's web site at <a href="http://www.isgs.illinois.edu">http://www.isgs.illinois.edu</a> 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 law varying degrees of completieness and sociously. This compliation map presents the properties of the completieness and sociously. This completion map presents degree may be offset by 500 feet or more due to errors in the original source maps, the compliance process, digitizing, or a combination of these factors. These data are not intered for use in site-specific screening of decision-making, the state of the site of th

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 reknown only from the 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 uncloaded 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 Jennifer M. Obrad March 5, 2010



# DIRECTORY OF COAL MINES IN ILLINOIS 7.5-MINUTE QUADRANGLE SERIES PYATTS QUADRANGLE PERRY COUNTY

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2010

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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, 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.

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 PYATTS QUADRANGLE

The Herrin Coal was mined in the Pyatts Quadrangle, commonly having a thickness of over 7 feet. The roof material was often problematical, with pods or lenses of white top that came down readily, associated with slips and rolls that further contributed to poor roof conditions. Energy Shale, a gray sandy shale, was also present in some areas. In most areas, a competent limestone was present above the shale, and in some cases, was the immediate roof over the coal. Slips and rolls were present in a few mines, but not prevalent enough to cause a notable problem in mining. Pyrite was often present in bands, lenses and nodules, but most reported cases indicated the pyrite was easily removed when hand loading was practiced, as was the case with the underground mines in this area.

Two large surface mines operated in the Pyatts Quadrangle. Fidelity No. 11 Mine (mine index 622) operated from 1929 to 1991, and Burning Star No. 2 Mine operated from 1951 to 1995. Fidelity No. 11 Mine ran into difficulties with poorly mapped underground workings. It is possible that many of the unlocated mines at the back of this report no longer exist because of later surface mining.

# 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.

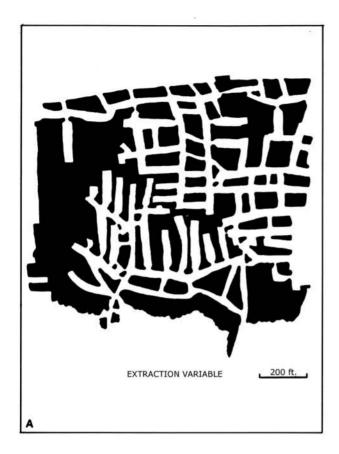
**Secondary source map** The original mine map was not found so the outline shown was determined from secondary sources (e.g., outlines from small-scale regional maps published in other reports). The summary sheet describes the secondary sources.

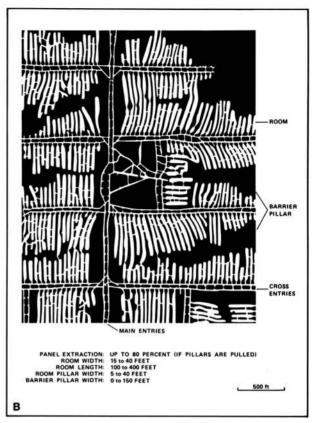
# **POINTS AND LABELS**

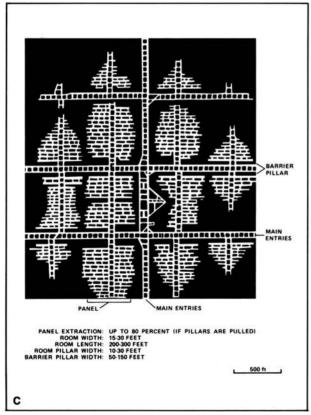
The locations of all known mine openings (shafts, slopes, and drifts) and surface mine tipples are plotted on the map. Tipples are areas where coal was cleaned, stockpiled, and loaded for shipping.

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.







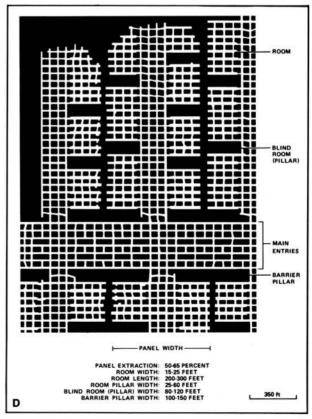
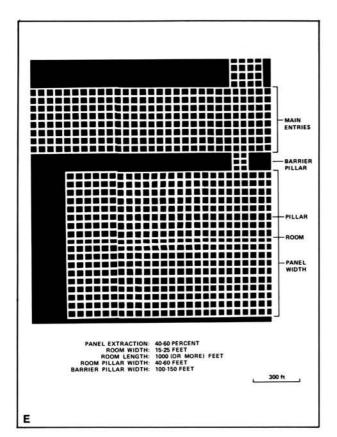
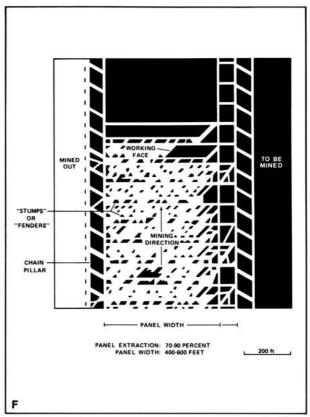
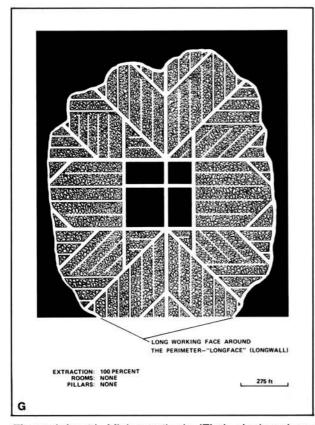


Figure 1 Mining methods: (A) room-and-pillar basic (RPB), (B) modified room and pillar (MRP), (C) room-and-pillar panel (RPP), (D) blind room and pillar (BRP).







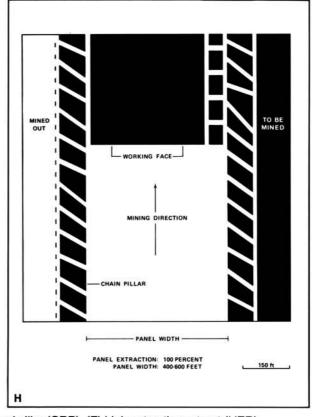
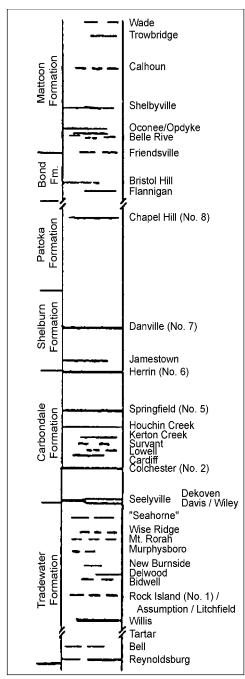


Figure 1 (cont.) Mining methods: (E) checkerboard room and pillar (CRP), (F) high extraction retreat (HER), (G) early (pre-1960) longwall, (H) post-1959 longwall



**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 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.

### **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.

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 PYATTS QUADRANGLE

#### MINE SUMMARY SHEETS

A summary sheet on the geology and production history of each mine in the Pyatts 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 178 **Bailey Brothers Coal Company, Diamond Mine**

Type: Underground Total mined-out acreage shown: 115 Production indicates less than 1 acre was mined after the map date. Production indicates approximately 140 acres were mined. It is likely that the western side of the mine is not final, and may be 25 to 50 acres larger than shown on the accompanying map. Old workings were encountered on the eastern side as well.

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage	
Main shaft (Bailey)	Perry	5S 1W	30	NE NE NE	
Air shaft	Perry	5S 1W	30	NE NE NE	
Old shaft *	Perry	5S 1W	20	SW SW SW	

<sup>\*</sup> The old shaft shown on the source map is believed to be from the Black Diamond Coal Mining Company. The old Black Diamond area is designated on the accompanying map with the yellow general area of mining, but is not included in the measured area at the top of this page, because the production that produced the general area of mining is not known.

#### **GEOLOGY**

		Thickness (ft)			Mining	
Seam(s) Mined	Depth (ft)	Min	Max	Avg	Method	
Herrin	80	4.75	5.0	4.8	MRP	

Geologic Problems Reported: Some small faults were observed, with 15 inches of displacement. Some slips extended down into the coal. The roof consisted of gray and black shales, with up to 10 feet of limestone above. The black shale varied from ½ inch to over 30 inches thick. A limestone roof was present over considerable areas of this mine, and the rooms were driven wider in those areas. Lenses of pyrite were found in the mine. The pyrite was easily removed from the coal as it was mined. The blue band was 6 to 8 inches above the floor.

# **PRODUCTION HISTORY**

			i ioddddioii
Company	Mine Name	Years	(tons)
Black Diamond Coal Mining Company	Black Diamond	ca. 1865-pre188°	1 Unknown **
Eaton Fuel Company	Black Diamond	1903-1905	55,919
Diamond Fuel Company	Diamond	1905-1910	93,841
Bailey Brothers Coal Company	Diamond	1910-1939	465,376
Bailey Brothers Coal Company	Diamond	1939-1941	1,833 ***
			616,969

Production

# SOURCES OF DATA

SOCKOLO G. DAIA		Original	Digitized		
Source Map	Date	Scale	Scale	Map Type	
Microfilm, document 352099	2-1926	1:1200	1:2234	Not final	
Company, 4103.P42 i5.1-23	9-24-1939	1:1200	1:1200	Not final	

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

Mine notes (Perry County) - Mine type, shaft location, seam, depth, thickness, geologic problems.

Microfilm map, document 352099, reel 03138, frames 83 & 84 - Shaft locations, mine outline, mining method.

Company map, ISGS map library, 4103.P42 i5.1-23 - Mine outline (eastern part).

McDonough Company (publishers), 1883, History of Randolph, Monroe and Perry Counties, Illinois - Mine history.

<sup>\*\*</sup> Diamond Town, shown on the map for Du Quoin Quadrangle as Sunfield (NW 29-T5S-R1W), was platted in 1864, and the Black Diamond Coal Mining Company was organized in 1865. By 1883, only a few old buildings remained of the mine. That would indicate that mining may have ended several years before. Production before 1881 is not

<sup>\*\*\*</sup> Production after map date Last reported production: 1941

# Freeman United Coal Mining Company, Fidelity No. 11 Mine

Type: Surface Total mined-out acreage shown: 9,754

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Туре	County	Township-Range	Section	Quarters-Footage	
Tipple	Perry	6S 2W	21	NE NW SW	

#### **GEOLOGY**

		Thickness (ft)		ft)	Mining	
Seam(s) Mined	Depth (ft)	Min	Max	Avg	Method	
Herrin	48-83			6.0-7.38	Surface	

Geologic Problems Reported: Inaccurately mapped adjacent underground workings were a problem. They were generally full of water, and sometimes water seeped through the coal and highwall when mining was close to the abandoned workings. Another danger was that the stripping shovel and bucketwheel excavator, which rested on top of the coal, could be damaged by sudden drop if the pillars from old mining collapsed under them. The roof was generally Anna Shale (about 1 foot) and / or up to 7 feet of Brereton Limestone. Large areas of washout and erosion were found, usually filled with soft material, such as clay and sand. One such area was about 7 acres, in NE NE 4-T6S-R4W. The coal had abundant pyrite in thin lenses and on vertical cracks. Calcite was also present in vertical cracks.

#### **PRODUCTION HISTORY**

			Production	
Company	Mine Name	Years	(tons)	
United Electric Coal Companies	Fidelity No. 11	1929-1974	62,601,524	
Freeman United Coal Mining Company	Fidelity No. 11	1975-1991	<u>14,314,417</u>	
			76,915,941	

Last reported production: 1991

# **SOURCES OF DATA**

		Original	Digitized	
Source Map	Date	Scale	Scale	Мар Туре
ISGS map library, 4103.P42 i5.1-76	5-29-1983	1:24000	1:24000	Final
ISGS map library, 4103.P42 i5.1-75	6-5-1991	1:19200	1:19200	Final
USGS topographic map, Vergennes	1968	1:62500	1:62500	Secondary source
USGS topographic map, Pyatts	1974, PR 1982	1:2400	1:24000	Secondary source

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

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

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

Mine notes (Perry County) - Mine type, mine location, seam.

ISGS map library, 4103.P42 i5.1-76 - Mine outline, tipple location.

ISGS map library, 4103.P42 i5.1-75, sheet 1 - Mine outline.

USGS 15-minute topographic map, Vergennes Quadrangle, 1968 - Mine outline.

USGS 7.5-minute topographic map, Pyatts Quadrangle, 1974, Photorevised 1982 - Mine outline.

ISGS field notes (Perry County), H. R. Wanless, 1931 - Seam, thickness.

# Truax-Traer Coal Company, Pyramid Mine

Type: Surface Total mined-out acreage shown: 4,153

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Tipple	Perry	5S 3W	36	SW SE SE

# **GEOLOGY**

		Inic	ckness (ft	<b>:)</b>	Mining	
Seam(s) Mined	Depth (ft)	Min	Max	Avg	Method	
Herrin	18-48	•		5.67-6.0	Surface	

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Draduation

<u>Geologic Problems Reported</u>: Much of the rock above the coal was limestone. The seam had clay bands and lenses. Facings of pyrite and calcite were present in vertical cracks. Some bands of stony pyrite were persistent over a considerable distance.

# **PRODUCTION HISTORY**

			Production	
Company	Mine Name	Years	(tons)	
Pyramid Coal Corporation *	Pyramid	1926-1951	27,538,438	
Truax-Traer Coal Company	Pyramid	1952-1959	3,254,230	
			30,792,668	

<sup>\*</sup> Some pits may have been leased to and operated as Binkly Coal Company.

Last reported production: September 1959

#### **SOURCES OF DATA**

SOUNDED OF BATA		Original	Digitized	
Source Map	Date	Scale	Scale	Map Type
NAIP digital ortho-photo quadrangle	2004	1:6000	1:6000	Secondary source
Company, 4103.P42 i5.1-63	8-1-1959	1:12000	1:12000	Not final **

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

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

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

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

Mine notes (Perry County) - Mine type, mine location, seam, depth, thickness.

National Agriculture Imagery Program map, digital ortho-photo quadrangle map, Pinckneyville Quadrangle, 2004 - Mine outline.

Company map, ISGS map library, 4103.P42 i5.1-63 - Mine outline, mining method.

# Consolidation Coal Company, Burning Star No. 2 Mine

Type: Surface Total mined-out acreage shown: 8,293

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Tipple	Perry	5S 2W	22	
Auger	Perry	5S 2W	21	

### **GEOLOGY**

		I NICE	kness (11	τ)	iviining	
Seam(s) Mined	Depth (ft)	Min	Max	Avg	Method	
Herrin	42-113			5.17-6.7	Surface	

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N 41:-- 1:-- --

Draduation

Geologic Problems Reported: The roof was generally Brereton Limestone or Anna Shale. Lenses or pods of Energy Shale were sometimes present over the coal, up to 10 feet wide and 1 foot thick. Calcite and pyrite were often seen on vertical fracture faces.

# **PRODUCTION HISTORY**

			Production
Company	Mine Name	Years	(tons)
Truax-Traer Coal Company	Burning Star No. 2	1951-1970	23,866,695
Consolidation Coal Company	Burning Star No. 2	1971-1995	<u>32,075,819</u>
			55,942,514

Last reported production: 1995

# **SOURCES OF DATA**

		Original	Digitized	
Source Map	Date	Scale	Scale	Мар Туре
Company, 4103.P42 i5.1-73	5-15-1995	1:4800	1:4800	Final
Company, 4102 i5.1-25	12-1951	1:4800	1:4800	Not final
Company, 6-253C	1959	1:62500	1:62500	Not final
ISGS map library, 4103.P42 i5.1-65	2-17-1970	1:62500	1:62500	Secondary source

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

Coal Reports - Production, ownership, years of operation, depth, thickness.

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

Mine notes (Perry County) - Mine type, mine location, seam, geologic problems.

Company map, ISGS map library, 4103.P42 i5.1-73 - Mine outline (auger mining, surface mining, in T5S-R2W).

Company map, ISGS map library, 4102 i5.1-25 - Mine outline (near Du Quoin).

Company map, Coal Section files, 6-253C - Mine outline (1950-1959).

ISGS map library, 4103.P42 i5.1-65, compilation map by Coal Section - Mine outline.

# Mine Index 3109 Kellerman & Stanhouse, Kellerman & Stanhouse Mine

Type: Underground Total mined-out acreage shown: None; not shown on the accompanying map because of later surface mining by Fidelity No. 11 Mine (mine index 622).

# SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Туре	County	Township-Range	Section	Quarters-Footage
Main shaft	Perry	6S 2W	14	SE SE NW

#### **GEOLOGY**

		I NIC	ckness (t	τ)	iviining	
Seam(s) Mined	Depth (ft)	Min	Max	Avg	Method	
Herrin					RP	

Geologic Problems Reported:

#### **PRODUCTION HISTORY**

			Production	
Company	Mine Name	Years	(tons)	
Kellerman & Stanhouse	Kellerman & Stanhouse	before 1934 *	Unknown *	

<sup>\*</sup> The mine operated before the WPA (circa 1934), but Kellerman & Stanhouse were not listed in the Coal Reports. The mine may have operated under another name (see the unlocated mines at the back of this report).

Last reported production:

# **SOURCES OF DATA**

		Original	Digitized	
Source Map	Date	Scale	Scale	Map Type
WPA map, T6S-R2W	Undated	1:12000	1:55096	Secondary source

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

Directory of Illinois Coal Mines (Perry County) - Mine name, mine index, ownership. WPA map, T6S-R2W - Shaft location, mine type.

# R. Killingsworth, Killingsworth Mine

Type: Underground Total mined-out acreage shown: None; production indicates less than 1 acre was mined. The source map showed three main shafts and two air shafts. The production is much too small for that level of development. Other operators may have worked at this location (see the unlocated mines at the back of this report). The shafts are not shown on the accompanying map because of later surface mining by Burning Star No. 2 Mine (mine index 864).

# SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Туре	County	Township-Range	Section	Quarters-Footage
Main shaft, No. 1	Perry	5S 2W	26	SE NE SW
Air shaft, No. 1	Perry	5S 2W	26	SE NE SW
Shaft, No. 2	Perry	5S 2W	26	NE SE SW
Shaft, No. 2	Perry	5S 2W	26	NE SE SW
Air shaft, No. 2	Perry	5S 2W	26	NE SE SW

#### **GEOLOGY**

		Thickness (ft)		t)	Mining	
Seam(s) Mined	Depth (ft)	Min	Max	Avg	Method	
Herrin	35			6.0	Underground	

Geologic Problems Reported:

#### **PRODUCTION HISTORY**

			Production	
Company	Mine Name	Years	(tons)	
Shakerag Coal Company	Shakerag	1924-1925	450	
R. A. Killingsworth Coal Company	Killingsworth	1925-1926 *	150	
Shakerag Coal Company	Shakerag	1927-1927	191	
R. Killingsworth	Killingsworth	1928-1928	<u>235</u>	
			1,026	

<sup>\*</sup> Idle 1926

Last reported production: 1928

#### **SOURCES OF DATA**

		Original	Digitized	
Source Map	Date	Scale	Scale	Map Type
WPA, T5S-R2W	Undated	1:12000	1:42240	Secondary source

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

Coal Reports - Production, ownership, years of operation, mine type, seam.

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

Mine notes (Perry County) - Shaft location, depth, thickness.

WPA map, T5S-R2W - Shaft locations.

# Panther Creek Coal Company, Panther Creek Mine

Type: Underground Total mined-out acreage shown: 21 as a general area of mining; production indicates less than 1 acre was mined. Most of the mine was later removed by surface mining by Burning Star No. 2 Mine (mine index 864).

# SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Туре	County	Township-Range	Section	Quarters-Footage
Mine	Perry	5S 2W	33	NW NE SE
Air shaft	Perry	5S 2W	33	NW NE SE

#### **GEOLOGY**

		Thi	ckness (f	t)	Mining	
Seam(s) Mined	Depth (ft)	Min	Max	Avg	Method	
Herrin	45	_		5.5-6.0	_	

Geologic Problems Reported:

#### PRODUCTION HISTORY

Company	Mine Name	Years	(tons)	
Howard Pope	Pope	Unknown *	Unknown *	
Panther Creek Coal Company	Panther Creek	1924-1925	<u>530</u>	
			530	

Draduation

Last reported production: 1925

### **SOURCES OF DATA**

		Original	Digitized	
Source Map	Date	Scale	Scale	Мар Туре
ISGS map library, 4103.P42 i5.1-70	10-1934	1:63360	1:63360	Secondary source
WPA, T5S-R2W	Undated	1:12000	1:42240	Secondary source

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

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Perry County) - Mine location, seam, depth, thickness.

ISGS map library, 4103.P42 i5.1-70, preliminary map for Federal Land Bank of St. Louis report - Shaft locations, mine outline, mine ownership.

WPA map, T5S-R2W - Mine ownership, mine location.

<sup>\*</sup> Both map sources are from the same approximate time period, circa 1934. Howard Pope may have operated in 1922, when mines producing less than 10,000 tons were not listed in the Coal Reports, or between 1930 and 1933, when mines producing less than 1,000 tons were not listed. Alternatively, Howard Pope may have been the owner of Panther Creek Coal Company.

# Victory Coal & Mining Company, Victory No. 2 Mine

Type: Underground Total mined-out acreage shown: 63 Production indicates approximately 24 acres were mined after the map date. The mine outline is not shown on the accompanying map because of later surface mining by Burning Star No. 2 Mine (mine index 864).

# SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Туре	County	Township-Range	Section	Quarters-Footage
Main shaft	Perry	5S 2W	36	SW SE NE
Air shaft	Perry	5S 2W	36	SE SW NE

#### **GEOLOGY**

		Thi	Thickness (ft)		Mining	
Seam(s) Mined	Depth (ft)	Min	Max	Avg	Method	
Herrin	54			5.83	RP	

<u>Geologic Problems Reported</u>: The roof was black shale varying from a few inches to several feet thick. In some places the black shale was replaced by gray shale. Above the shale was a limestone that ranged from 10 inches to 16 feet thick.

#### PRODUCTION HISTORY

			Fioduction	
Company	Mine Name	Years	(tons)	
Manufacturers Fuel Company	Jupiter No. 5	1903-1905	7,783	
Jupiter Coal & Mining Company	Jupiter No. 5	1905-1908	47,944	
Orion Coal Company	Jupiter No. 5	1908-1912 *	9,070	
Idle	·	1913-1919		
Victory Coal & Mining Company	Victory No. 2	1920-1925	160,215	
Victory Coal & Mining Company	Victory No. 2	1923-1925	123,302 **	
	·		348,314	

Droduction

Last reported production: February 1925

#### **SOURCES OF DATA**

		Original	Digitized	
Source Map	Date	Scale	Scale	Мар Туре
WPA_T5S-R2W & T5S-R1W	7-1923 **	1.12000	1.42240	Secondary source

<sup>\*\*</sup> The WPA map was not dated (circa 1934), but the mine outline had a survey date of 7-1923. The source maps labeled the mine as Victory No. 5 Mine, although production was reported as the No. 2 Mine.

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

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Perry County) - Mine type, shaft location, seam, depth, thickness, geologic problems.

WPA maps, T5S-R2W & T5S-R1W - Shaft locations, mine outline, mining method.

<sup>\*</sup> Idle 1909 & 1910

<sup>\*\*</sup> Production after map date

# Mine Index 3135 Du Quoin Coal Company, Jupiter No. 3 Mine

Type: Underground Total mined-out acreage shown: 112

# SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Perry	6S 1W	6	NE SW SW
Air shaft	Perry	6S 1W	6	SE NW SW

# **GEOLOGY**

		l hi	ickness (1	it)	Mining	
Seam(s) Mined	Depth (ft)	Min	Max	Avg	Method	
Herrin	65			6.0	RP	

# Geologic Problems Reported:

# **PRODUCTION HISTORY**

			Production	
Company	Mine Name	Years	(tons)	
John C. Porter	Lake	1898-1899	9,599	
Superior Coal Company	Lake	1899-1902	181,287	
Weaver Coal Company	Weaver No. 3	1902-1903	36,077	
Manufacturers Fuel Company	Jupiter No. 3	1903-1905	78,164	
Du Quoin Coal Company	Jupiter No. 3	1905-1907	100,753	
Miller & Horn Coal Company	Jupiter No. 3	1907-1908	76,991	
Du Quoin Coal Company	Jupiter No. 3	1908-1911	<u>55,750</u>	
			538,621	

Last reported production: 1911

# **SOURCES OF DATA**

SOURCES OF DATA		Original	Digitized	
Source Map	Date	Scale	Scale	Map Type
WPA, T6S-R1W	9-23-1913 *	1:12000	1:55096	Secondary source

<sup>\*</sup> The WPA map was compiled in 1940, but the mine outline had a survey date of 1913.

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

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Perry County) - Shaft location, seam, depth, thickness.

WPA map, T6S-R1W - Shaft locations, mine outline.

# Mine Index 3137 West Park Coal Company, West Park Mine

Type: Underground Total mined-out acreage shown: 2 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	Perry	6S 1W	7	NE SE SW
Air shaft	Perry	6S 1W	7	NW SE SW

#### **GEOLOGY**

0202001		Thickness (ft)	Mining	
Seam(s) Mined	Depth (ft)	Min Max Avg	Method	
Herrin	68	7.0	MRP	

Geologic Problems Reported: The roof was 4 feet of black shale with 7 feet of limestone above.

#### **PRODUCTION HISTORY**

			Production	
Company	Mine Name	Years	(tons)	
West Park Coal Company	West Park	1931-1931	1,253	
Carl J. Schlueter	Schlueter	1932-1932	2,517	
West Park Coal Company	West Park	1933-1935	5,549	
Hot Shot Coal Company	Hot Shot	1936-1938	3,392	
Jacobs Coal Company	Jacobs	1939-1939	180	
West Park Coal Company	West Park	1939-1940	2,143 *	
			15,034	

<sup>\*</sup> Production after map date

Last reported production: 1940

# **SOURCES OF DATA**

		Original	Digitized		
Source Map	Date	Scale	Scale	Map Type	
ISGS man library 4103 P42 i5 1-3	1-21-1939	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 (Perry County) - Mine names, mine index, ownership, years of operation. Mine notes (Perry County) - Mine type, shaft location, seam, depth, thickness, geologic problems. Company map, ISGS map library, 4103.P42 i5.1-3 - Shaft locations, mine outline, mining method.

# Mine Index 3158 Jewel Coal & Mining Company, Jewel No. 1 Mine

Type: Underground Total mined-out acreage shown: 62 Production indicates 62 acres were mined after the map date.

# SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Perry	6S 1W	18	NW NE SE
Air shaft	Perry	6S 1W	18	SE SW NE

#### **GEOLOGY**

0202001		Thi	ckness (ft	t)	Mining	
Seam(s) Mined	Depth (ft)	Min	Max	Avg	Method	
Herrin	75			6.5	RPP	

Geologic Problems Reported:

#### **PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)	
Harvey & Company	Harvey	1916-1917	959	_
Jewel Coal & Mining Company	Jewel No. 1	1917-1921	383,947	
Jewel Coal & Mining Company	Jewel No. 1	1921-1923	<u>378,346</u> *	
			763,252	

<sup>\*</sup> Production after map date

Last reported production: October 1923

# **SOURCES OF DATA**

		Original	Digitized	
Source Map	Date	Scale	Scale	Мар Туре
Microfilm, document 352078	2-1921	1:2400	1:4469	Not final

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

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Perry County) - Shaft location, seam, depth, thickness.

Microfilm map, document 352078, reel 03138, frame 57 - Shaft locations, mine outline, mining method.

# Mine Index 3159 Old Egyptian Coal Company, Egyptian Mine

Type: Underground Total mined-out acreage shown: 20 Production indicates approximately 80 acres were mined. The approximate size of the mine is shown on the accompanying map by a general area of mining.

# SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Туре	County	Township-Range	Section	Quarters-Footage
Main shaft	Perry	6S 1W	18	NE SW NW
Air shaft	Perry	6S 1W	18	NE SW NW

#### **GEOLOGY**

		Thic	ckness (f	t)	Mining	
Seam(s) Mined	Depth (ft)	Min	Max	Avg	Method	
Herrin	75-95			5.0-6.5	RP	

# Geologic Problems Reported:

#### **PRODUCTION HISTORY**

			Production	
Company	Mine Name	Years	(tons)	
Egyptian Mining Company *	Egyptian	1891-1894	69,233	
Du Quoin Union Coal Company	Egyptian	1894-1899	384,000	
Vulcan Coal Company	Egyptian	1900-1905	Unknown **	
Old Egyptian Coal Company	Egyptian	1906-1907	<u>700</u>	
			453 933	

Draduation

Last reported production: 1907

# **SOURCES OF DATA**

		Original	Digitized	
Source Map	Date	Scale	Scale	Мар Туре
WPA, T6S-R1W	1940	1:12000	1:55096	Secondary source
Microfilm, document 352078	2-1921	1:2400	1:4469	Secondary source

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

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

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

Mine notes (Perry County) - Mine type, seam, depth, thickness.

ISGS field notes (Perry County) - Shaft location.

Sanborn Fire Insurance Maps - Mine ownership, years of operation, depth, thickness.

WPA map, T6S-R1W - Shaft locations

Microfilm map, document 352078, reel 03138, frame 57, map of Jewel Mine (mine index 3158) - Mine outline.

<sup>\*</sup> The owner of Egyptian Mining Company was L. S. Smith, according to the Sanborn Fire Insurance Map.

<sup>\*\*</sup> The shaft was shown on the 1900 Sanborn Fire Insurance Map, leased by Vulcan Coal Company. Production, if any, is unknown. The text on the map, describing the mine, stated the mine worked out 120 acres. The mine may be larger than shown on the accompanying map.

# Mine Index 3160 Du Quoin Union Coal Company, Excelsior Mine

Type: Underground Total mined-out acreage shown: 37, as a general area of mining

# SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Perry	6S 1W	7	SW SW SE

# **GEOLOGY**

OLOLOG!		Thi	ckness (f	t)	Mining	
Seam(s) Mined	Depth (ft)	Min	Max	Avg	Method	
Herrin	65			6.5	RP	

Geologic Problems Reported:

# **PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)
Excelsior Coal Mining Company	Excelsior	1889-1894	219,920
Du Quoin Union Coal Company	Excelsior	1894-1897	22,340
			242,260

Last reported production: 1897

# **SOURCES OF DATA**

		Original	Digitized	
Source Map	Date	Scale	Scale	Map Type
WPA, T6S-R1W	1940	1:12000	1:55096	Secondary source

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

Coal Reports - Production, ownership, years of operation, mine type, mining method. Directory of Illinois Coal Mines (Perry County) - Mine names, mine index, ownership, years of operation. Mine notes (Perry County) - Shaft location, seam, depth, thickness. WPA, T6S-R1W - Shaft location.

# Mine Index 3166 Great Central Coal Company, Mifflin Mine

Type: Underground Total mined-out acreage shown: 122

### SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Туре	County	Township-Range	Section	Quarters-Footage
Shaft *	Perry	6S 2W	2	SE NW NW
Shaft *	Perry	6S 2W	2	SE NW NW

<sup>\*</sup> The WPA map indicated the western shaft is the hoist shaft, while the Sanborn Fire Insurance map indicated the western shaft is the air shaft. No company map has been found to resolve the issue, and the shafts are coded as "uncertain type of opening" on the accompanying map.

#### **GEOLOGY**

		Thickness (ft)	Mining	
Seam(s) Mined	Depth (ft)	Min Max Avg	Method	
Herrin	44-70	6.0	RP	<u>.</u>

<u>Geologic Problems Reported</u>: Slips and rolls were seen in the roof. The roof varied from black shale to light gray shale. The light gray shale came down readily. The top coal had some partings and pyrite nodules.

### **PRODUCTION HISTORY**

Company	Mine Name	Years	Production (tons)	
Pope Mining Company	Mifflin	1894-1901	144,568	
Superior Coal Company	Mifflin	1901-1902	28,705	
Lake Superior Coal Company	Pope	1902-1905	192,100	
Du Quoin Fuel Company	Mifflin	1905-1906	49,162	
Great Central Coal Company	Mifflin	1906-1907	16,186	
			430.721	

Last reported production: 1907

# **SOURCES OF DATA**

Source Map	Date	Original Scale	Digitized Scale	Map Type
WPA map, T6S-R2W	Undated	1:12000	1:55096	Secondary source
ISGS map library, 4103,P42 i5,1-70	10-1934	1:62500	1:62500	Secondary source

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

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

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

Mine notes (Perry County) - Shaft location, seam, depth, thickness, geologic problems.

WPA map, T6S-R2W - Shaft locations.

Sanborn Fire Insurance Maps - Shaft locations.

ISGS map library, 4103.P42 i5.1-70, work map for Federal Land Bank Report - Mine outline.

# Mine Index 3167 Justice Coal Company, Justice Mine

Type: Underground Total mined-out acreage shown: 14 (a general area of mining); production indicates approximately 1 acre was mined. Later surface mining by Pyramid Mine (mine index 623) removed a portion of the general area of mining.

# SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Drift	Perry	6S 2W	6	NW NE SW

#### **GEOLOGY**

		Thi	ckness (f	t)	Mining	
Seam(s) Mined	Depth (ft)	Min	Max	Avg	Method	
Herrin	20			6.5	Underground	

Geologic Problems Reported:

#### PRODUCTION HISTORY

Company	Mine Name	Years	Production (tons)
Milligan Coal Company	Milligan	1919-1920	100
Andrew Dolgus	Epplin	1920-1922 *	800
Justice Coal Company	Justice	1922-1927	<u>3,225</u>
			4,125

<sup>\*</sup> Production was not reported in 1922 for mines producing less than 10,000 tons.

Last reported production: 1927

#### **SOURCES OF DATA**

		Original	Digitized	
Source Map	Date	Scale	Scale	Map Type
ISGS map library, 4103.P42 i5.1-70	10-1934	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 (Perry County) - Mine names, mine index, ownership, years of operation.

Mine notes (Perry County) - Drift location, seam, depth, thickness.

ISGS field notes (Perry County) - Mine type.

ISGS map library, 4103.P42 i5.1-70, work map for Federal Land Bank Report - Shaft locations, mine outline.

# Mine Index 3168 Burnett Coal Company, Burnett Mine

Type: Underground Total mined-out acreage shown: 1 Production indicates less than 1 acre was mined after the map date. The western portion of the mine was later surface-mined by Fidelity No. 11 Mine (mine index 622).

# SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main slope	Perry	6S 2W	9	NW SE SE
Air shaft	Perry	6S 2W	9	NW SE SE

# **GEOLOGY**

		I hid	ckness (f	t)	Mining	
Seam(s) Mined	Depth (ft)	Min	Max	Avg	Method	
Herrin	19			6.0	RPB	

**Geologic Problems Reported:** 

#### PRODUCTION HISTORY

			Production
Company	Mine Name	Years	(tons)
James Roy & Miral Burnett	Roy & Burnett	1932-1932	1,000
Burnett Coal Company	Burnett	1933-1934	2,115
Burnett Coal Company	Burnett	1934-1936	<u>2,399</u> * 5,514

<sup>\*</sup> Production after map date

Last reported production: 1936

# **SOURCES OF DATA**

		Original	Digitized		
Source Map	Date	Scale	Scale	Map Type	
Microfilm, document 352084	1934	1:1200	1:1241	Not final	

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

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Perry County) - Slope location, seam, depth, thickness.

Microfilm map, document 352084, reel 03138, frame 64 - Slope & shaft locations, mine outline, mining method.

# Mine Index 3169 Cedar Hill Coal Company, Cedar Hill Mine

Type: Underground Total mined-out acreage shown: None; production indicates less than 1 acre was mined. The mine is not shown on the accompanying map because of later surface mining by Fidelity No. 11 Mine (mine index 622).

# SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Туре	County	Township-Range	Section	Quarters-Footage
Main shaft	Perry	6S 2W	11	SW NW SW

### **GEOLOGY**

		Thi	ckness (f	ft)	Mining	
Seam(s) Mined	Depth (ft)	Min	Max	Avg	Method	
Herrin	44			7.0	Underground	-

Geologic Problems Reported:

#### PRODUCTION HISTORY

			Production
Company	Mine Name	Years	(tons)
Cedar Hill Coal Company	Cedar Hill	1934-1936	<u>882</u>
			882

Last reported production: 1936

#### **SOURCES OF DATA**

		Original	Digitized	
Source Map	Date	Scale	Scale	Map Type
WPA, T6S-R2W	Undated	1:12000	1:55096	Secondary source

Annotated Bibliography (data source, brief description of information)

Coal Reports - Production, ownership, years of operation.

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

Mine notes (Perry County) - Shaft location, seam, depth, thickness.

WPA map, T6S-R2W - Shaft location.

# Mine Index 3171 Jewel Coal Company, Jewel No. 2 Mine

Type: Underground Total mined-out acreage shown: 42 Production indicates approximately 10 acres were mined after the map date.

# SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Main shaft	Perry	6S 2W	13	SW NW NE
Air shaft	Perry	6S 2W	13	SW NW NE

#### **GEOLOGY**

0202001		Thi	ckness (ft)	Mining	
Seam(s) Mined	Depth (ft)	Min	Max Avg	Method	
Herrin	58		7.0	MRP	

# Geologic Problems Reported:

#### **PRODUCTION HISTORY**

			Production	
Company	Mine Name	Years	(tons)	
Jewel Coal Company	Jewel No. 2	1920-1923	255,475	
Jewel Coal Company	Jewel No. 2	1923-1924	<u>64,004</u> *	
			319,479	

<sup>\*</sup> Production after map date

Last reported production: December 1924

### **SOURCES OF DATA**

		Originai	Digitizea	
Source Map	Date	Scale	Scale	Map Type
WPA, T6S-R2W	1923 **	1:12000	1:55096	Secondary source

0-1-1-1

District and

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

Coal Reports - Production, ownership, years of operation, mine type, mining method. Directory of Illinois Coal Mines (Perry County) - Mine names, mine index, ownership, years of operation. Mine notes (Perry County) - Shaft location, seam, depth, thickness. WPA map, T6S-R2W - Shaft locations, mine outline, mining method.

<sup>\*\*</sup> The WPA map is undated, but the mine outline has a survey date of 1923. The outline is not final, although from a secondary source.

# Mine Index 3172 Alfred Phillips, Phillips Mine

Type: Underground Total mined-out acreage shown: None

# SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Туре	County	Township-Range	Section	Quarters-Footage	
Main slope	Perry	6S 2W	16	SE SW NW	
Shaft	Perry	6S 2W	16	SE SW NW	
Slope	Perry	6S 2W	16	SE SW NW	

### **GEOLOGY**

010100.		Thi	ickness (f	t)	Mining	
Seam(s) Mined	Depth (ft)	Min	Max	Avg	Method	
Herrin	11			8.0		

<u>Geologic Problems Reported</u>: The roof was 1 foot of shale below limestone. The seam consisted of 13 inches of top coal, a 1/8 inch parting of shale, a 59-inch middle bench with another 1/8 inch parting, 1.5 inches of blue band, and 13 inches of bottom coal. The pyrite was most common in the middle bench.

# **PRODUCTION HISTORY**

			Production	
Company	Mine Name	Years	(tons)	
Alfred Phillips *	Phillips	Unknown	Unknown	

Droduction

Last reported production:

# **SOURCES OF DATA**

		Original	Digitized	
Source Map	Date	Scale	Scale	Map Type
WPA, T6S-R2W	Undated	1:12000	1:55096	Secondary source

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

Directory of Illinois Coal Mines (Perry County) - Mine names, mine index, ownership, years of operation. Mine notes (Perry County) - Mine type, slope location, seam, depth, thickness, geologic problems. WPA, T6S-R2W - Shaft locations, mine outline, mine names.

<sup>\*</sup> No production was listed in the Coal Reports under this name. The WPA map identifies the mines at this location as Chris Heisner, which also was not included in the Coal Reports. The mine may have operated under another name (see the unlocated mines at the back of this report).

# Mine Index 4412 Owen, Owen Mine

Type: Underground Total mined-out acreage shown: 201 The actual area mined may be much smaller than shown on the accompanying map.

# SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Type	County	Township-Range	Section	Quarters-Footage
Shaft	Perry	5S 3W	30	SW SW NW

#### **GEOLOGY**

		Thi	ckness (f	t)	Mining	
Seam(s) Mined	Depth (ft)	Min	Max	Avg	Method	
Herrin	388			3.1	Underground	

# Geologic Problems Reported:

#### **PRODUCTION HISTORY**

			Production	
Company	Mine Name	Years	(tons)	
Owen	Owen	circa 1868	Unknown *	

<sup>\*</sup> Production for mines that operated before 1882 is unknown.

Last reported production:

### **SOURCES OF DATA**

		Original	Digitized	
Source Map	Date	Scale	Scale	Map Type
ISGS map library, 4103,P42 i5,1-70	10-1934	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 (Perry County) - Mine names, mine index, ownership, years of operation.

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

Worthen, A. H., 1868, Volume III - Geology and Paleontology, page 90 - Mine name.

ISGS map library, 4103.P42 i5.1-70, work map for Federal Land Bank Report - Shaft location, mine outline.

# Ritter Coal & Quarry Company, Red Fox No. 2 Mine

Type: Surface Total mined-out acreage shown: None; not shown on accompanying map because the mined area was later enlarged by Burning Star No. 2 Mine (mine index 864). The pit created by Red Fox No. 2 Mine was used for the tailings pile for Burning Star No. 2 Mine.

# SHAFT, SLOPE, DRIFT or TIPPLE LOCATIONS

Туре	County	Township-Range	Section	Quarters-Footage
Pit	Perry	5S 2W	25	NW SW

#### **GEOLOGY**

CLOLOG!		Thickness (ft)		Mining	
Seam(s) Mined	Depth (ft)	Min	Max Avg	Method	
Herrin	26-35		5.0	Surface	

Geologic Problems Reported:

#### PRODUCTION HISTORY

			Production
Company	Mine Name	Years	(tons)
Ritter Coal Company	Red Fox No. 2	1948-1953	<u>159,413</u>
			159,413

Last reported production: 1953

#### **SOURCES OF DATA**

		Original	Digitized		
Source Map	Date	Scale	Scale	Map Type	
Microfilm, document 352134	5-20-1953	1.1200	1:48000	Final	

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 (Perry County) - Mine names, mine index, ownership, years of operation. Microfilm map, document 352134, reel 03138, frame 144 - Mine outline, mining method.

### OTHER MINES SHOWN ON PYATTS QUADRANGLE

Mine Index 3165 NE NE SE 2-T6S-R2W, underground source: Federal Land Bank Report
Mine Index 4414 SE SE NW 33-T5S-R2W, shaft source: WPA, T5S-R2W
Mine Index 7342 SW SE NE 24-T5S-R3W source: Federal Land Bank Report
Mine Index 7343 NW NE SE 24-T5S-R3W source: Federal Land Bank Report
Mine Index 7344 SW NE SE 24-T5S-R3W source: Federal Land Bank Report
Mine Index 7348 \* SW SW NW 6-T6S-R1W, shaft source: ISGS map library, 4103.P42 i5.1-70 (work map for Federal Land Bank Report)

### MINES WHOSE LOCATIONS ARE NOT KNOWN, PYATTS 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 Pyatts 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 233,889 (199,065 underground, 13,620 surface mined, and 21,204 mined by uncertain method), which would represent approximately 35 to 55 acres, depending on the recovery factor, mining method, and numerous other factors. (Note: 1 square mile = 640 acres)

#### **DU QUOIN**

Winn (George), 1882-1883, shaft, Herrin, 41, 6.0	2,545 tons
Frizzell Coal Mining Company, 1883-1889, shaft, -, 30, 5.75-6.0, RP	33,417 tons
Johnson (Thomas), 1894-1895, shaft, Herrin, 71, 6.0, RP	200 tons
Snofford & Pyles, 1901-1902, shaft, Herrin, 24, 6.0, RP Pyles (Dan), Sunshine Mine, 1902-1903	200 tons 800 tons 1,000 tons
Greenwood (Thomas), 1904-1905, shaft, Herrin, 26, 6.0, RP	140 tons
Hummel (J. A.) & Davis (C.), 1905-1906, slope, Herrin, 15, 6.0-9.0, RP Conroy & Bailey, 1906-1907 Presswood (Charles), 1907-1908	3,600 tons 2,924 tons 500 tons 7,024 tons
Coffel (James A.), 1908-1909, shaft, Herrin, 21-48, 6.0, RP Cook (B. O.), 1909-1912	3,120 tons 9,313 tons 12,433 tons
Dynamic Coal Mining Company, No. 3 Mine, 1912-1914, shaft, Herrin, 80, 6	6,318 tons
Morgan & Williams, 1914-1915, slope, Herrin, 15, 6.0-6.57, RP Legrand & Son, 1916-1917	800 tons 340 tons 1,140 tons
Dry & Revelle, 1915-1917, shaft, Herrin, 24-30, 5.83-6.0, RP	389 tons
Schmidtgall Coal Company, 1919-1923 Possum Hollow Coal Company, 1923-1927	1,350 tons 6,264 tons

<sup>\*</sup> Not shown on accompanying map because of later surface mining

	7,614 tons
Diamond Coal Company, 1920-1922 Du Quoin Coal Company, Diamond Mine, 1922-1926	1,135 tons 2,785 tons 3,920 tons
Schneider (Marion) Coal Company, 1922-1927	1,382 tons
Seronce (Morris), 1922-1924	1,038 tons
Good Will Coal Company, 1924-1925	1,595 tons
Manuel & Sons, 1924-1925	2,035 tons
East Side Coal Company, 1926-1927	3,040 tons
Blue Bell Coal Company, 1926-1926	580 tons
Clayton (Dick), 1928-1928, surface	750 tons
Clayton (J. M.), 1929-1929, underground	138 tons
Talbot Coalery Company, 1934-1935, surface, Herrin, -, 6.0	4,142 tons
Blue Ribbon Coal Company, 1934-1934, underground	184 tons
Bard (Charles) Coal Company, 1936-1936, underground	800 tons
PINCKNEYVILLE	
Carter & Barwell, Lake Mine, 1881-1883, shaft, Herrin, 42-74, 5.0	9,803 tons
Carter & Barwell, Lake Mine, 1881-1883, shaft, Herrin, 42-74, 5.0  Smith (W. S. D.), Humock Mine, 1881-1883, shaft, Herrin, 45-70, 5.25-5.33	9,803 tons 8,689 tons
Smith (W. S. D.), Humock Mine, 1881-1883, shaft, Herrin, 45-70, 5.25-5.33	8,689 tons
Smith (W. S. D.), Humock Mine, 1881-1883, shaft, Herrin, 45-70, 5.25-5.33  Malone & Miller, 1883-1889, shaft, Herrin, 40, 6.0-6.5, RP  Wood Brothers, 1890-1898, shaft, Herrin, 16-80, 6.0-6.5, RP  Maasburg (Henry C.), 1898-1901  Turner & Faust Coal Company, Maasburg Mine, 1901-1902  Gruner & Jenner, 1902-1903  Sycamore Coal Company, 1903-1905  Luke & Jenkel, 1905-1906  Henson (John) Coal Company, 1906-1907  Henson & Henson, 1907-1908  Lemon Coal Company, 1908-1909	8,689 tons 8,150 tons 10,003 tons 6,308 tons 1,624 tons 400 tons 150 tons 2,000 tons 825 tons 700 tons 120 tons 580 tons
Smith (W. S. D.), Humock Mine, 1881-1883, shaft, Herrin, 45-70, 5.25-5.33  Malone & Miller, 1883-1889, shaft, Herrin, 40, 6.0-6.5, RP  Wood Brothers, 1890-1898, shaft, Herrin, 16-80, 6.0-6.5, RP  Maasburg (Henry C.), 1898-1901  Turner & Faust Coal Company, Maasburg Mine, 1901-1902  Gruner & Jenner, 1902-1903  Sycamore Coal Company, 1903-1905  Luke & Jenkel, 1905-1906  Henson (John) Coal Company, 1906-1907  Henson & Henson, 1907-1908  Lemon Coal Company, 1908-1909  Redfern (A. S.), 1909-1910  Ritchey (S. S.), 1894-1895, shaft, Herrin, 35, 6.0-7.0, RP  Jener & Davis, 1895-1897  Duckworth (H. W.), 1897-1899  Cowens (W. P.), 1899-1900  Roe Coal Company, 1900-1901  Turner & Faust, Ritchey Mine, 1901-1902	8,689 tons  8,150 tons  10,003 tons 6,308 tons 1,624 tons 400 tons 150 tons 2,000 tons 825 tons 700 tons 120 tons 580 tons 22,710 tons 2,836 tons 2,873 tons 1,235 tons 1,914 tons 1,800 tons 400 tons
Smith (W. S. D.), Humock Mine, 1881-1883, shaft, Herrin, 45-70, 5.25-5.33  Malone & Miller, 1883-1889, shaft, Herrin, 40, 6.0-6.5, RP  Wood Brothers, 1890-1898, shaft, Herrin, 16-80, 6.0-6.5, RP  Maasburg (Henry C.), 1898-1901  Turner & Faust Coal Company, Maasburg Mine, 1901-1902  Gruner & Jenner, 1902-1903  Sycamore Coal Company, 1903-1905  Luke & Jenkel, 1905-1906  Henson (John) Coal Company, 1906-1907  Henson & Henson, 1907-1908  Lemon Coal Company, 1908-1909  Redfern (A. S.), 1909-1910  Ritchey (S. S.), 1894-1895, shaft, Herrin, 35, 6.0-7.0, RP  Jener & Davis, 1895-1897  Duckworth (H. W.), 1897-1899  Cowens (W. P.), 1899-1900  Roe Coal Company, 1900-1901  Turner & Faust, Ritchey Mine, 1901-1902  Roe & Company, 1902-1903	8,689 tons  8,150 tons  10,003 tons 6,308 tons 1,624 tons 400 tons 150 tons 2,000 tons 825 tons 700 tons 120 tons 580 tons 22,710 tons 2,836 tons 2,873 tons 1,235 tons 1,914 tons 1,800 tons 400 tons 11,628 tons

Pinckneyville Mining Company, 1926-1927	7,430 tons
Taylor (Hawk), 1932-1932, underground	1,083 tons
McMath Coal Company, 1932-1932, underground	1,001 tons
PYATTS	
Halfsung (Christopher), 1902-1903, slope, Herrin, 20, 5.5, RP	120 tons
ST. JOHN	
Plumlee (William), 1890-1891, shaft, Herrin, 36, 5.5-6.0, RP Hall (Isaac), 1891-1892	60 tons 48 tons 108 tons
Lyler (John), 1899-1900, -, -, 30, 5.5, RP	3,000 tons
House (C. A.) & Company, 1909-1912, shaft, Herrin, 12-30, 5.9-6.17, RP Clark (Rolla), 1912-1915 House (Charles), 1915-1916 House Brothers Coal Company, 1916-1917	161 tons 582 tons 360 tons 200 tons 1,303 tons
New Eagle Coal Company, 1922-1923	98 tons
Archibald, Betz & Moro, 1928-1928, underground Domes (Fred J.), 1929-1929	283 tons 1,463 tons 1,746 tons

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