## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

**201145**

**Surface**

## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>K-C #1 Mine</td>
<td>1981</td>
<td>1982</td>
</tr>
</tbody>
</table>

## START DATE

<table>
<thead>
<tr>
<th>MIN</th>
<th>Start</th>
<th>MAX</th>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
</tr>
</thead>
</table>

## END DATE

<table>
<thead>
<tr>
<th>MIN</th>
<th>Start</th>
<th>MAX</th>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>K-C Mining, Inc.</td>
<td>1981</td>
<td>1982</td>
</tr>
</tbody>
</table>

## OPERATIONS

<table>
<thead>
<tr>
<th>Coal Removal Method</th>
<th>UNKNOWN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Removal Equipment</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Transportation Type</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Preparation Method</td>
<td>UNKNOWN</td>
</tr>
</tbody>
</table>

## COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
</tbody>
</table>

## QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dale</td>
<td>No</td>
</tr>
<tr>
<td>Holland</td>
<td>Yes</td>
</tr>
</tbody>
</table>

## TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec.</td>
<td>18</td>
<td>NE NE</td>
</tr>
</tbody>
</table>

## COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-BU NCRDS</td>
</tr>
</tbody>
</table>

## COMMENTS

## CITATIONS

<table>
<thead>
<tr>
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<th>Internal No.</th>
<th>Digital</th>
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<tbody>
<tr>
<td>Company Mine Map Photo</td>
<td>600177</td>
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</tr>
<tr>
<td>Surface Mine Datasheet</td>
<td>700677</td>
<td>No</td>
</tr>
</tbody>
</table>

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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
**COAL MINE INFORMATION SYSTEM**

**Mine/Pit Data Sheet**

**MINENUMB**

**Surface**

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deller Mine</td>
<td>1978</td>
<td>1980</td>
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### START DATE

<table>
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### END DATE

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<td>1980</td>
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### MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shelton, Paul, Co.</td>
<td>1978</td>
<td>1980</td>
</tr>
</tbody>
</table>

### OPERATIONS

<table>
<thead>
<tr>
<th>Coal Removal Method</th>
<th>UNKNOWN</th>
</tr>
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<tbody>
<tr>
<td>Removal Equipment</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Transportation Type</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Preparation Method</td>
<td>UNKNOWN</td>
</tr>
</tbody>
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### COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holland</td>
<td>Yes</td>
</tr>
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### TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>S</td>
<td>5</td>
<td>W</td>
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<td>SW</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-BU NCRDS</td>
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### COMMENTS

### CITATIONS

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<tr>
<td>Data Card</td>
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<td>Interim Permit</td>
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<td>Interim Permit</td>
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<td>State Mine Inspector Report</td>
<td>999971</td>
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## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

<table>
<thead>
<tr>
<th>MINE NAME HISTORY</th>
<th>START DATE</th>
<th>END DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mine Name</td>
<td>MIN</td>
<td>Start</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>MINE OWNERSHIP HISTORY</th>
<th>OPERATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Name</td>
<td>Coal Removal Method</td>
</tr>
<tr>
<td>Shelton, Paul, Co.</td>
<td>UNKNOWN</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COUNTIES</th>
<th>QUADRANGLES</th>
<th>TRS LOCATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>County Name</td>
<td>Primary</td>
<td>Quadrangle Name</td>
</tr>
<tr>
<td>Spencer</td>
<td>Yes</td>
<td>Dale</td>
</tr>
<tr>
<td>Holland</td>
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<td></td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>COAL GEOLOGY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coal Seam/Member</td>
</tr>
<tr>
<td>Minshall/Buffalville Coal Mbr.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COMMENTS</th>
<th>CITATIONS</th>
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<tbody>
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<td>Company Mine Map Photo</td>
<td>600289</td>
</tr>
<tr>
<td>Surface Mine Datasheet</td>
<td>700695</td>
</tr>
</tbody>
</table>

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Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010

---

Explanation of Year Codes:  
7007 Mine is currently in operation  
1001 Minimum date is unknown  
9009 Maximum date is unknown
**COAL MINE INFORMATION SYSTEM**

**Mine/Pit Data Sheet**

**MINE NAME HISTORY**

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
<td>1959</td>
<td>1959</td>
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**START DATE**

<table>
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**END DATE**

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**MINE OWNERSHIP HISTORY**

<table>
<thead>
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</thead>
<tbody>
<tr>
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<td>1959</td>
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**OPERATIONS**

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

**COUNTIES**

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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**QUADRANGLES**

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
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<td>Yes</td>
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<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>Sec</th>
<th>Type</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>19</td>
<td></td>
<td></td>
<td>SW</td>
</tr>
</tbody>
</table>

**TRS LOCATIONS**

**COAL GEOLOGY**

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-BU NCRDS</td>
</tr>
</tbody>
</table>

**MAILING ADDRESS**

**COMMENTS**

**NOTES AND COMMENTS**

Not present on 1958 PCM, shown as mined on 1961 USGS topo quad.

**CITATIONS**

<table>
<thead>
<tr>
<th>Abbreviated Citation</th>
<th>Internal No.</th>
<th>Digital</th>
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<tbody>
<tr>
<td>Surface Mine Datasheet</td>
<td>700943</td>
<td>No</td>
</tr>
<tr>
<td>Aerial Photo, 1974</td>
<td>9999956</td>
<td>Yes</td>
</tr>
<tr>
<td>Strip Study Map</td>
<td>999988</td>
<td>No</td>
</tr>
</tbody>
</table>

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### Mine/Pit Data Sheet

#### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day Mine (2)</td>
<td>1953</td>
<td>1955</td>
</tr>
</tbody>
</table>

#### Start Date

<table>
<thead>
<tr>
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<tr>
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<td>1955</td>
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#### End Date

<table>
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<tr>
<td>1950</td>
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<td>1957</td>
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#### Mine Ownership History

<table>
<thead>
<tr>
<th>Company Name</th>
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</thead>
<tbody>
<tr>
<td>UNKNOWN</td>
<td>1953</td>
<td>1955</td>
</tr>
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#### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

#### Counties

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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</table>

#### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holland</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec. 19</td>
<td>SW</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec. 19</td>
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#### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
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#### Comments

#### Citations

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<tr>
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</tr>
<tr>
<td>PCM #8, Spencer Co.</td>
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</tbody>
</table>

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**Indiana Geological Survey**

**Indiana University**

**Friday, July 02, 2010**

**Explanation of Year Codes:**

7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ayres #4 Mine</td>
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<td>1975</td>
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### Start Date

<table>
<thead>
<tr>
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<tbody>
<tr>
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### End Date

<table>
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<th>MAX</th>
</tr>
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<tbody>
<tr>
<td></td>
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### County Name

<table>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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### Quadrangle Name

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Chrisney</td>
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<table>
<thead>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<td>W</td>
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### Coal Seam/Member

<table>
<thead>
<tr>
<th>Minshall/Buffaloville Coal Mbr.</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>-9999</td>
<td>-9999</td>
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<td>UNKNOWN</td>
<td>CO-BU NCRDS</td>
</tr>
</tbody>
</table>

### Coal Geology

### Coal Removal Method

UNKNOWN

### Transportation Type

UNKNOWN

### Company Name

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
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</thead>
<tbody>
<tr>
<td>Three States Coal Co.</td>
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<td>1975</td>
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### Surface Citation

<table>
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<tbody>
<tr>
<td>Strip Study Map</td>
<td>999988</td>
<td>Yes</td>
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## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
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<tr>
<td>Mullen #1 Mine</td>
<td>1977</td>
<td>1980</td>
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## START DATE

<table>
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<tr>
<th>MIN</th>
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<tr>
<td></td>
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## MINE OWNERSHIP HISTORY

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<tr>
<td>Mullen, Joseph E., Co.</td>
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## OPERATIONS

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<td>Removal Equipment</td>
<td>UNKNOWN</td>
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<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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## COUNTIES

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<table>
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<tr>
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<td>Yes</td>
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<table>
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<tr>
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<td>5</td>
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<td>Sec. 6</td>
<td></td>
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## TRS LOCATIONS

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Santa Claus</td>
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</tbody>
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## COAL GEOLOGY

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<th>Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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## COMMENTS

**NOTES AND COMMENTS**

- Re-affects #201296.

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Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
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<td>1978</td>
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### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### Counties

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</tbody>
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### Quadrangles

<table>
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<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Chrisney</td>
<td>Yes</td>
</tr>
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### TRS Locations

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<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<td>5</td>
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### Coal Geology

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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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### Comments

- **Abbreviated Citation**: Interim Permit
- **Internal No.**: 10484
- **Digital**: Yes

- **Abbreviated Citation**: Surface Mine Datasheet
- **Internal No.**: 700957
- **Digital**: No

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**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## MINE NAME HISTORY

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## SURFACE MINE Datasheet

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## MINE OWNERSHIP HISTORY

<table>
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<tr>
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<tbody>
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<td>Kelco of Indiana, Inc.</td>
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## Operations

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<tr>
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<th>Removal Equipment</th>
<th>Transportation Type</th>
<th>Preparation Method</th>
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<tbody>
<tr>
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## Counties

<table>
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<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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## Mine/Pit Data Sheet

### Mine Name History

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### Mine Ownership History

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### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### Counties

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<tr>
<td>Spencer</td>
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### Quadrangles

<table>
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<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Chrisney</td>
<td>Yes</td>
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### TRS Locations

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<th>DR</th>
<th>SecType</th>
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### Coal Geology

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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
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### Comments

- **NOTES AND COMMENTS**: Completed by 1958 PCM; reclamation taking place on 1955 & 1960 aerial photos.

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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes**:

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
**COAL MINE INFORMATION SYSTEM**

**Mine/Pit Data Sheet**

**Mine Name History**

<table>
<thead>
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**Mine Ownership History**

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**Counties**

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**Quadrangles**

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Chrisney</td>
<td>Yes</td>
</tr>
<tr>
<td>Santa Claus</td>
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**TRS Locations**

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<tr>
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**Coal Geology**

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<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
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**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

Indiana Geological Survey
Indiana University

Friday, July 02, 2010
**Mine Name History**

<table>
<thead>
<tr>
<th>Mine Name</th>
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**County Name**

<table>
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**Quadrangle Name**

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<td>5</td>
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**Coal Seams/Member**

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**Comments**

- Re-affects 201434.

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**Abbreviated Citation**

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**Company Mine Map Photo**

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**Surface Mine Datasheet**

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**State Mine Inspector Report**

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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010
## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
</table>

## START DATE

<table>
<thead>
<tr>
<th>MIN</th>
<th>Start</th>
<th>MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>1980</td>
<td>1980</td>
<td>1980</td>
</tr>
</tbody>
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## END DATE

<table>
<thead>
<tr>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
</tr>
</thead>
</table>

## MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mulzer Crushed Stone, Co.</td>
<td>1980</td>
<td>1981</td>
</tr>
</tbody>
</table>

## OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: Drag
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

## COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
</tbody>
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## QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
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<tbody>
<tr>
<td>Chrisney</td>
<td>Yes</td>
</tr>
<tr>
<td>Santa Claus</td>
<td>No</td>
</tr>
</tbody>
</table>

## TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec.</td>
<td>5</td>
<td>SW NW</td>
</tr>
</tbody>
</table>

## COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-BU NCRDS</td>
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</tbody>
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## COMMENTS

## CITATIONS

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<th>Abbreviated Citation</th>
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<tbody>
<tr>
<td>Company Mine Map Photo</td>
<td>600197</td>
<td>Yes</td>
</tr>
<tr>
<td>Surface Mine Datasheet</td>
<td>700687</td>
<td>No</td>
</tr>
</tbody>
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**Indiana Geological Survey**

**Indiana University**

**Friday, July 02, 2010**

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price-Beertzer #1 Mine</td>
<td>1982</td>
<td>1994</td>
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### Start Date

<table>
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<th>MIN</th>
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<td>1994</td>
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### End Date

<table>
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<th>MIN</th>
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<td>1994</td>
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### Mine Ownership History

<table>
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</thead>
<tbody>
<tr>
<td>Foertsch Construction Co.</td>
<td>1983</td>
<td>1994</td>
</tr>
<tr>
<td>Green Ridge Coal, Inc.</td>
<td>1982</td>
<td>1994</td>
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<tr>
<td>Multzer Crushed Stone Co.</td>
<td>1981</td>
<td>1981</td>
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</tbody>
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### Operations

<table>
<thead>
<tr>
<th>Coal Removal Method</th>
<th>Unknown</th>
</tr>
</thead>
<tbody>
<tr>
<td>Removal Equipment</td>
<td>Unknown</td>
</tr>
<tr>
<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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### Counties

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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</tbody>
</table>

### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chrisney</td>
<td>Yes</td>
</tr>
<tr>
<td>Santa Claus</td>
<td>No</td>
</tr>
</tbody>
</table>

### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
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<tbody>
<tr>
<td>6</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec.</td>
<td>6</td>
<td>NE</td>
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### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
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### Comments

- Re-affects 201282 and 201281.

### Citations

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<td>Company Mine Map</td>
<td>610180</td>
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<td>Surface Mine Datasheet</td>
<td>700691</td>
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<td>State Mine Inspector Report</td>
<td>999971</td>
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<td>B200 Report of Affected Area</td>
<td>999975</td>
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</table>

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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### Mine/Pit Data Sheet

**Mine Name History**

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spencer #7 Mine</td>
<td>1979</td>
<td>1981</td>
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</table>

**Start Date**

<table>
<thead>
<tr>
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<th>MAX</th>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
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**End Date**

<table>
<thead>
<tr>
<th>MIN</th>
<th>Start</th>
<th>MAX</th>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
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</tbody>
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**County Name**

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
<tr>
<td>Warrick</td>
<td>No</td>
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</table>

**Quadrangle Name**

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chrisney</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Twp** | **Rng** | **Sec** | **Sec Type** | **Quarters**
---|---|---|---|---
4 | 5 | SW | 31 |
4 | 6 | SE | 36 |

**Coal Geology**

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
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<td>-9999</td>
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<td>UNKNOWN</td>
<td>CO-BU NCRDS</td>
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**Comments**

Re-affects #203197 and #202194.

**Citations**

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<tr>
<td>Data Card</td>
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<tr>
<td>Interim Permit</td>
<td>10468</td>
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<tr>
<td>Company Mine Map Photo</td>
<td>600301</td>
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<td>700696</td>
<td>No</td>
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<tr>
<td>Surface Mine Datasheet</td>
<td>700962</td>
<td>No</td>
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<tr>
<td>Surface Mine Datasheet</td>
<td>700971</td>
<td>No</td>
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</tbody>
</table>

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
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# COAL MINE INFORMATION SYSTEM

## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ayre Mine</td>
<td>1979</td>
<td>1981</td>
</tr>
</tbody>
</table>

### Start Date

<table>
<thead>
<tr>
<th>MIN</th>
<th>Start</th>
<th>MAX</th>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
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</table>

### End Date

<table>
<thead>
<tr>
<th>MIN</th>
<th>Start</th>
<th>MAX</th>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
</tr>
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### Mine Ownership History

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multzer Crushed Stone Co.</td>
<td>1979</td>
<td>1981</td>
</tr>
</tbody>
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### Operations

<table>
<thead>
<tr>
<th>Coal Removal Method</th>
<th>UNKNOWN</th>
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<tbody>
<tr>
<td>Removal Equipment</td>
<td>Back hoe/Dozer</td>
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<tr>
<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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### Counties

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
<tr>
<td>Chrisney</td>
<td>Yes</td>
</tr>
<tr>
<td>Santa Claus</td>
<td>No</td>
</tr>
</tbody>
</table>

### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chrisney</td>
<td>Yes</td>
</tr>
<tr>
<td>Santa Claus</td>
<td>No</td>
</tr>
</tbody>
</table>

### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec.</td>
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<td>NE</td>
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<tr>
<td>6</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec.</td>
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<td>NW</td>
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### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
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<td>-9999</td>
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<td>UNKNOWN</td>
<td>CO-BU NCRDS</td>
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### Comments

### Citations

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<thead>
<tr>
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</tr>
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<tbody>
<tr>
<td>Interim Permit</td>
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<td>No</td>
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<td>Yes</td>
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<td>Company Mine Map Photo</td>
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</tr>
<tr>
<td>Surface Mine Datasheet</td>
<td>700954</td>
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</tbody>
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---

**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
# COAL MINE INFORMATION SYSTEM

## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stevenson Mine (2)</td>
<td>1979</td>
<td>1980</td>
</tr>
</tbody>
</table>

### Start Date/End Date

<table>
<thead>
<tr>
<th>MIN</th>
<th>Start</th>
<th>MAX</th>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
</tr>
</thead>
</table>

### Mine Ownership History

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delta Mining Co.</td>
<td>1979</td>
<td>1980</td>
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### Operations

<table>
<thead>
<tr>
<th>Coal Removal Method</th>
<th>UNKNOWN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Removal Equipment</td>
<td>Drag</td>
</tr>
<tr>
<td>Transportation Type</td>
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</tr>
<tr>
<td>Preparation Method</td>
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### Counties/Quadrangles/TRS Locations

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
<th>Quadrangle Name</th>
<th>Primary</th>
<th>Twp</th>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
<td>Owensboro West</td>
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<td>8</td>
<td>S</td>
<td>7</td>
<td>W</td>
<td>Sec.</td>
<td>5</td>
<td>NE</td>
</tr>
</tbody>
</table>

### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<td>25</td>
<td>2.1</td>
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<td>CO-4A WAH</td>
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### Citations

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Indiana Geological Survey  
Indiana University

Friday, July 02, 2010

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Explanation of Year Codes:
- 7007 Mine is currently in operation
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## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</tr>
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<tbody>
<tr>
<td>Pigeon Creek #2 Mine</td>
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## START DATE

<table>
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## END DATE

<table>
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<tr>
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<tr>
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## SURFACE

<table>
<thead>
<tr>
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<table>
<thead>
<tr>
<th>County Name</th>
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## MINENUMB

<table>
<thead>
<tr>
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<th>TRS Locations</th>
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</tr>
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<td>S</td>
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## MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
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</table>

## OPERATIONS

<table>
<thead>
<tr>
<th>Coal Removal Method</th>
<th>UNKNOWN</th>
</tr>
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<tbody>
<tr>
<td>Removal Equipment</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Transportation Type</td>
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</tr>
<tr>
<td>Preparation Method</td>
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## COAL GEOLOGY

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<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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## Mine/Pit Data Sheet

### Mine Name History

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- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### Counties

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### TRS Locations

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<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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**Indiana Geological Survey**  
**Indiana University**  
Friday, July 02, 2010

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## Mine Name History

<table>
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## Coal Geology

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COAL MINE INFORMATION SYSTEM
Mine/Pit Data Sheet

MINENUMB 201344
Surface

MINE NAME HISTORY

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START DATE

- Start 1976
- MAX 1976
- MIN 1982
- MAX 1982

END DATE

- Start 1982
- MAX 1982
- MIN 1982
- MAX 1982

MINE OWNERSHIP HISTORY

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OPERATIONS

- Coal Removal Method: UNKNOWN
- Removal Equipment: Dozer/Loader
- Transportation Type: Truck
- Preparation Method: UNKNOWN

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COAL GEOLOGY

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COMMENTS

NOTES AND COMMENTS

- Re-affects #203194

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Indiana Geological Survey
Indiana University
Friday, July 02, 2010

Explanation of Year Codes:
7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

---

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### Mine/Pit Data Sheet

#### Mine Name History

<table>
<thead>
<tr>
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#### Coal Removal Method

- **UNKNOWN**

#### Removal Equipment

- Scraper/Dozer/Loader

#### Transportation Type

- Truck

#### Preparation Method

- Crushed/Mine run

#### Coal Seam/Member

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
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#### Abbreviated Citation

- Internal No. 5965
- Digital No.

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#### Company Mine Map

- Yes
- Internal No. 610174

#### Surface Mine Datasheet

- No
- Internal No. 701072

#### B200 Report of Affected Area

- No
- Internal No. 999975

#### Notes and Comments

- Mine was operated from 1976-1977 and was then idle until 1992.
- DOR permit number S-00286

---

**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM
### Mine/Pit Data Sheet

#### MINE NAME HISTORY
<table>
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#### OPERATIONS
- Coal Removal Method: UNKNOWN
- Removal Equipment: UNKNOWN
- Transportation Type: UNKNOWN
- Preparation Method: UNKNOWN

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#### CITATIONS
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<thead>
<tr>
<th>Abbreviated Citation</th>
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<td>Surface Mine Datasheet</td>
<td>701073</td>
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</tr>
<tr>
<td>Aerial Photo, 1950</td>
<td>999931</td>
<td>Yes</td>
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Indiana Geological Survey
Indiana University
Friday, July 02, 2010

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
# COAL MINE INFORMATION SYSTEM

## Mine/Pit Data Sheet

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
<td>1952</td>
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### END DATE

<table>
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### OPERATIONS

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<tr>
<td>Preparation Method</td>
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### COUNTIES

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### QUADRANGLES

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<tr>
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### TRS LOCATIONS

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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
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<th>Quarters</th>
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<td>W</td>
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<td>25</td>
<td>NW</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
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<td>UNKNOWN</td>
<td>CO-MH PCM</td>
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### COMMENTS

- Not mined in 1950 aerial photo, but shown as mined in 1955 aerial photo.

### CITATIONS

<table>
<thead>
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<td>Strip Study Map</td>
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# Coal Mine Information System

## Mine/Pit Data Sheet

### Mine Name History

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<tr>
<th>Mine Name</th>
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<td>Hasenour and Sternberg Mine</td>
<td>1965</td>
<td>1972</td>
</tr>
<tr>
<td>Scales Mine (2)</td>
<td>1963</td>
<td>1965</td>
</tr>
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<table>
<thead>
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</thead>
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<td>1972</td>
</tr>
<tr>
<td>Scales Co.</td>
<td>1963</td>
<td>1965</td>
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### COAL GEOLOGY

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<th>Original Correlation</th>
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<td>Fmmr</td>
<td>CO-MH HCH</td>
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### Counts

- **Primary County Name**: Spencer
  - **Primary Quadrangle Name**: Dale

### Quadrangles

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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
<tr>
<td>4</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec. 25</td>
<td>NE SE</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec. 25</td>
<td>SE NE</td>
<td></td>
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### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: Drag/Shovel
- **Transportation Type**: Truck
- **Preparation Method**: Screened

### Citations

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<td>Data Card</td>
<td>3640</td>
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<td>Surface Mine Datasheet</td>
<td>701075</td>
<td>No</td>
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<td>Strip Study Map</td>
<td>999988</td>
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**Explanation of Year Codes:**

- **7007**: Mine is currently in operation
- **1001**: Minimum date is unknown
- **9009**: Maximum date is unknown

---

**Indiana Geological Survey**

**Indiana University**

_Friday, July 02, 2010_
## COAL MINE INFORMATION SYSTEM
### Mine/Pit Data Sheet

### MINENUMB

**MINE NAME HISTORY**

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<tr>
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</thead>
<tbody>
<tr>
<td>Landrey Mine (3)</td>
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### MINE OWNERSHIP HISTORY

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</thead>
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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

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### TRS LOCATIONS

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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
<tr>
<td>4</td>
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<td>SE</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
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<td>-9999</td>
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<td>UNKNOWN</td>
<td>CO-MH</td>
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### COMMENTS

**NOTES AND COMMENTS**

Not mined in 1950 aerial photo; shown as mined in 1955 aerial photo.

**CITATIONS**

<table>
<thead>
<tr>
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<td>No</td>
</tr>
<tr>
<td>Aerial Photo, 1955</td>
<td>999932</td>
<td>No</td>
</tr>
<tr>
<td>Strip Study Map</td>
<td>999988</td>
<td>Yes</td>
</tr>
</tbody>
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**Explanation of Year Codes**:

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

---

**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

- **MINENUMB**: 201350
- **Surface**

### MINE NAME HISTORY

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<thead>
<tr>
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<th>Start</th>
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</thead>
<tbody>
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<td>1977</td>
<td>1978</td>
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### START DATE

<table>
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### MINE OWNERSHIP HISTORY

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<th>Start</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Teegarten, Paul A., Co.</td>
<td>1977</td>
<td>1978</td>
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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### COUNTIES

<table>
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<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
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### QUADRANGLES

<table>
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<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Dale</td>
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### TRS LOCATIONS

<table>
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<tr>
<th>Twp</th>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
<tr>
<td>4</td>
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<td>NW</td>
<td>SW</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
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### COMMENTS

### CITATIONS

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## COAL MINE INFORMATION SYSTEM

**Mine/Pit Data Sheet**

### MINE NAME HISTORY

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</thead>
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### MINE OWNERSHIP HISTORY

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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### COUNTIES

<table>
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### QUADRANGLES

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### TRS LOCATIONS

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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tr>
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<td>CO-MH    PCM</td>
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### COMMENTS

**NOTES AND COMMENTS**

- Shown as mined on 1950 aerial photo.

**CITATIONS**

- **Abbreviated Citation**: Surface Mine Datasheet
- **Internal No.**: 701078
- **Digital**: No
- **Abbreviated Citation**: Aerial Photo. 1950
- **Internal No.**: 999931
- **Digital**: No
- **Abbreviated Citation**: Strip Study Map
- **Internal No.**: 999988
- **Digital**: Yes

---

**Indiana Geological Survey**

**Indiana University**

**Friday, July 02, 2010**

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### Mine/Pit Data Sheet

#### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
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<tr>
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#### Start Date

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#### Company Name History

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#### Quadrangles

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<th>Primary</th>
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<tr>
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#### Coal Geology

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<td>UNKNOWN</td>
<td>CO-MH</td>
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#### Notes and Comments

Not present on 1950 aerial photo; present on 1961 USGS topo quad.

#### Citations

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<tr>
<td>Surface Mine Datasheet</td>
<td>701079</td>
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<tr>
<td>Strip Study Map</td>
<td>999988</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

**201353**

### Surface

#### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
<td>1947</td>
<td>1948</td>
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#### START DATE

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<tr>
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#### END DATE

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</thead>
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<tr>
<td>1945</td>
<td>1948</td>
<td>1949</td>
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#### COMPANY NAME

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>UNKNOWN</td>
<td>1947</td>
<td>1948</td>
</tr>
</tbody>
</table>

#### COAL REMOVAL METHOD

| Unknown Surface Mine | 1947 | 1948 |

#### REMOVAL EQUIPMENT

| UNKNOWN | 1947 | 1948 |

#### TRANSPORTATION TYPE

| UNKNOWN | 1947 | 1948 |

#### PREPARATION METHOD

| UNKNOWN | 1947 | 1948 |

#### COUNTRIES

<table>
<thead>
<tr>
<th>County Name</th>
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<tbody>
<tr>
<td>Spencer</td>
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</tbody>
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#### QUADRANGLES

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<tr>
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#### TRS LOCATIONS

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<th>DR</th>
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<th>Quarters</th>
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<tbody>
<tr>
<td>4</td>
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<td>4</td>
<td>W</td>
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<td></td>
<td>SE SE</td>
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#### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
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<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-MH PCM</td>
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#### NOTES AND COMMENTS

**Shown as mined on 1950 aerial photo.**

#### CITATIONS

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<tr>
<td>Strip Study Map</td>
<td>999988</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

---

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
# COAL MINE INFORMATION SYSTEM

## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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<tbody>
<tr>
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### Start Date

<table>
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<tr>
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<tr>
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<td>1976</td>
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### End Date

<table>
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<tr>
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<th>End</th>
<th>MAX</th>
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</thead>
<tbody>
<tr>
<td>1977</td>
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<td>1977</td>
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### Start Date

<table>
<thead>
<tr>
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<th>MAX</th>
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</thead>
<tbody>
<tr>
<td>1976</td>
<td>1976</td>
<td>1976</td>
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### End Date

<table>
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<th>MAX</th>
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</thead>
<tbody>
<tr>
<td>1977</td>
<td>1977</td>
<td>1977</td>
</tr>
</tbody>
</table>

### Mine Ownership History

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imperial Mining Co.</td>
<td>1976</td>
<td>1977</td>
</tr>
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### Operations

- **Coal Removal Method:** UNKNOWN
- **Removal Equipment:** Scraper/Dozer/Loader
- **Transportation Type:** Truck
- **Preparation Method:** Crushed/Mine run

### Counties

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
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### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
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<tr>
<td>Dale</td>
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### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
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<td>5</td>
<td>W</td>
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### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
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### Comments

### Citations

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<td>10213</td>
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<td>Surface Mine Datasheet</td>
<td>701081</td>
<td>No</td>
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Indiana Geological Survey

Indiana University

Friday, July 02, 2010

Explanation of Year Codes:

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Schmitt Mine</td>
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## START DATE

<table>
<thead>
<tr>
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<td>1978</td>
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<tr>
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<td>1979</td>
<td>1979</td>
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## MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
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</thead>
<tbody>
<tr>
<td>B. and M. Coal Corp.</td>
<td>1978</td>
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## OPERATIONS

<table>
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<tr>
<td>Removal Equipment</td>
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<tr>
<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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## COUNTIES

<table>
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<tr>
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<tbody>
<tr>
<td>Spencer</td>
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## QUADRANGLES

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## TRS LOCATIONS

<table>
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<tr>
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<td>4</td>
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<td>5</td>
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<td>NE</td>
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## COAL GEOLOGY

<table>
<thead>
<tr>
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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tr>
<td>Brazil Fm.</td>
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<td>CO-BR NCRDS</td>
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## COMMENTS

## CITATIONS

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<td>Interim Permit</td>
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<td>Surface Mine Datasheet</td>
<td>701082</td>
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*Explanation of Year Codes:*
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### Mine/Pit Data Sheet

#### MINE NAME HISTORY

<table>
<thead>
<tr>
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</thead>
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<tr>
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#### START DATE

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<tbody>
<tr>
<td>1979</td>
<td>1979</td>
<td>1979</td>
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#### END DATE

<table>
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<tbody>
<tr>
<td>1980</td>
<td>1980</td>
<td>1980</td>
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#### MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Spencer Coal Corp</td>
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<td>1980</td>
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#### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

#### COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
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<tbody>
<tr>
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#### QUADRANGLES

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<tr>
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#### TRS LOCATIONS

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<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<td>Sec.</td>
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#### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
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<td>-9999</td>
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<td>UNKNOWN</td>
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### Comments

- **NOTES AND COMMENTS**: Re-affects # 203195

### Citations

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### Mine/Pit Data Sheet

#### MINENUMB 201357

**Surface**

### Mine Name History

<table>
<thead>
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### End Date

<table>
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<th>MAX</th>
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### Mine Ownership History

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
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<tbody>
<tr>
<td>Christian Mining Co.</td>
<td>1976</td>
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### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### Counties

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
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### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
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<td>Dale</td>
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### TRS Locations

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<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<td>NW SW</td>
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### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
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<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
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<td>-9999</td>
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<td>UNKNOWN</td>
<td>CO-BU NCRDS</td>
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### Comments

#### Citations

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<tr>
<td>Aerial Photo, 1978</td>
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*Indiana Geological Survey*

*Indiana University*

*Friday, July 02, 2010*

---

*Explanation of Year Codes:*

7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
**COAL MINE INFORMATION SYSTEM**

**Mine/Pit Data Sheet**

**Mine Name History**

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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<tbody>
<tr>
<td>Olinger Mine (2)</td>
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**Start Date**

<table>
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<tr>
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<th>Start</th>
<th>MAX</th>
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</thead>
<tbody>
<tr>
<td>1978</td>
<td>1978</td>
<td>1978</td>
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</table>

**End Date**

<table>
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<tr>
<th>MIN</th>
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<th>MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>1978</td>
<td>1978</td>
<td>1978</td>
</tr>
</tbody>
</table>

**Mine Ownership History**

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
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</thead>
<tbody>
<tr>
<td>Spencer Coal Co.</td>
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**Operations**

<table>
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<tr>
<th>Coal Removal Method</th>
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<tbody>
<tr>
<td>Removal Equipment</td>
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<tr>
<td>Preparation Method</td>
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**Counties**

<table>
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<tbody>
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**Quadrangles**

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**TRS Locations**

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**Coal Geology**

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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

**Mine/Pit Data Sheet**

<table>
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### Coal Geology

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### Comments

- **NOTES AND COMMENTS**
  - Present on 1959 PCM, but not shown as mined on 1953 aerial photo.

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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

---

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## Mine/Pit Data Sheet

### Mine Name History

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<th>Mine Name</th>
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### Mine Ownership History

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- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### Counties

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### COAL MINE INFORMATION SYSTEM

#### Mine/Pit Data Sheet

**MINENUMB**: 201362  
**Surface**

#### MINE NAME HISTORY

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#### MINE OWNERSHIP HISTORY

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<th>Start</th>
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<tbody>
<tr>
<td>B. and M. Coal Corp.</td>
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#### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

#### COUNTIES

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#### COAL GEOLOGY

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#### COMMENTS

**NOTES AND COMMENTS**

Known as Pits #1, #2 and #3.

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**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

---

Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010
## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
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### Mine Ownership History

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### COAL GEOLOGY

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### Comments

**NOTES AND COMMENTS**

Re-affects #201366.

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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

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- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
# COAL MINE INFORMATION SYSTEM

## Mine/Pit Data Sheet

### MINE NAME HISTORY

<table>
<thead>
<tr>
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### START DATE AND END DATE

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### COUNTIES AND QUADRANGLES

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### TRS LOCATIONS

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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
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<th>Original Correlation</th>
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<td>999947</td>
<td>No</td>
</tr>
<tr>
<td>Strip Study Map</td>
<td>999988</td>
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Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010

Explanation of Year Codes:

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

Friday, July 02, 2010
**COAL MINE INFORMATION SYSTEM**

**Mine/Pit Data Sheet**

**MINENUMB**

**Surface**

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Beardsley #2 Mine</td>
<td>1976</td>
<td>1977</td>
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### START DATE

<table>
<thead>
<tr>
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<th>MAX</th>
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### END DATE

<table>
<thead>
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<th>Start</th>
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<th>MIN</th>
<th>End</th>
<th>MAX</th>
</tr>
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### MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
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</thead>
<tbody>
<tr>
<td>Teegarten, Paul, co.</td>
<td>1977</td>
<td>1977</td>
</tr>
<tr>
<td>Shelton, Paul, Co.</td>
<td>1976</td>
<td>1977</td>
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### OPERATIONS

<table>
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<tr>
<td>Removal Equipment</td>
<td>Drag/Loader</td>
</tr>
<tr>
<td>Transportation Type</td>
<td>Truck</td>
</tr>
<tr>
<td>Preparation Method</td>
<td>Mine run</td>
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### COUNTIES

<table>
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<tr>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
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<tbody>
<tr>
<td>Dale</td>
<td>Yes</td>
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### TRS LOCATIONS

<table>
<thead>
<tr>
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<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
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<td>5</td>
<td>W</td>
<td>Sec.</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>20</td>
<td>3.3</td>
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<td>UNKNOWN</td>
<td>CO-MH NCRDS</td>
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### COMMENTS

**NOTES AND COMMENTS**

Re-affects #203191.

### CITATIONS

<table>
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<tr>
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<tr>
<td>Data Card</td>
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<tr>
<td>Interim Permit</td>
<td>10440</td>
<td>No</td>
</tr>
<tr>
<td>Interim Permit</td>
<td>10483</td>
<td>Yes</td>
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<td>Powell Negative</td>
<td>402447</td>
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<tr>
<td>Surface Mine Datasheet</td>
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<td>701094</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
**COAL MINE INFORMATION SYSTEM**

**Mine/Pit Data Sheet**

**MINENUMB**: 201368

**Surface**

### MINE NAME HISTORY

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<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Santa Claus #1 Mine</td>
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### START DATE END DATE

<table>
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<th>MIN</th>
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<th>MAX</th>
</tr>
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### MINE OWNERSHIP HISTORY

<table>
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<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Theba Corp.</td>
<td>1981</td>
<td>1981</td>
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- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

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<tr>
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<tbody>
<tr>
<td>Spencer</td>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
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### TRS LOCATIONS

<table>
<thead>
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<th>Rng</th>
<th>DR</th>
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<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
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<td>5</td>
<td>W</td>
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<td>SE</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>-9999</td>
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<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-MH NCRDS</td>
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### COMMENTS

### CITATIONS

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<td>600323</td>
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<td>700703</td>
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Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

**MINENUMB**: 201371

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hunley Creek Mine</td>
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<td>1982</td>
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</tbody>
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### START DATE

<table>
<thead>
<tr>
<th>MIN</th>
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### END DATE

<table>
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<tr>
<th>MIN</th>
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</thead>
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### MINE OWNERHIS TORY HISTORY

<table>
<thead>
<tr>
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### OPERATIONS

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Removal Equipment</td>
<td>Drill/Rip</td>
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<tr>
<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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### COUNTIES

<table>
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### QUADRANGLES

<table>
<thead>
<tr>
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<th>Primary</th>
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<tbody>
<tr>
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</tbody>
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### TRS LOCATIONS

<table>
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<tr>
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<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
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<th>Quarters</th>
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### COAL GEOLOGY

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<tr>
<th>Coal Seam/Member</th>
<th>Depth(ft)</th>
<th>Thickness(ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-MH  PCM CROP</td>
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</tbody>
</table>

### COMMENTS

- **NOTES AND COMMENTS**
  - Mine associated with #201372.
  - Re-affects #201365.

- **CITATIONS**
  - Abbreviated Citation
    - Internal No.: 5700
    - Digital: No
  - Company Mine Map Photo
    - Internal No.: 600100
    - Digital: Yes
  - Surface Mine Datasheet
    - Internal No.: 700664
    - Digital: No

---

**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
**COAL MINE INFORMATION SYSTEM**

Mine/Pit Data Sheet

<table>
<thead>
<tr>
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<th>201372</th>
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<tbody>
<tr>
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</table>

### MINE NAME HISTORY

<table>
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<tr>
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<tbody>
<tr>
<td>Hunley Creek Mine</td>
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<td>1982</td>
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### START DATE

<table>
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<tr>
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### END DATE

<table>
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</thead>
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<td>1982</td>
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### MINE OWNERSHIP HISTORY

<table>
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<th>Company Name</th>
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<th>End</th>
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</thead>
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### COUNTIES

<table>
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<tbody>
<tr>
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### QUADRANGLES

<table>
<thead>
<tr>
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<tbody>
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### TRS LOCATIONS

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### COAL GEOLOGY

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<thead>
<tr>
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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-MH PCM CROP</td>
</tr>
</tbody>
</table>

### COMMENTS

- **COAL MINE INFORMATION SYSTEM**
  - **Counties**: Spencer
  - **Quadrangle Name**: Dale
  - **TRS Locations**: 4 S 4 W Sec. 8 NW
  - **Coal Seam/Member**: Mariah Hill Coal Mbr. Depth: -9999, Thickness: -9999
  - **Original Correlation**: CO-MH PCM CROP

### CITATIONS

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<thead>
<tr>
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<td>No</td>
</tr>
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Indiana Geological Survey
Indiana University
Friday, July 02, 2010

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
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## START DATE

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## END DATE

<table>
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## MINE OWNERSHIP HISTORY

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</thead>
<tbody>
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<td>Energy Supply, Inc.</td>
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## OPERATIONS

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Removal Equipment</td>
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</tr>
<tr>
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<tr>
<td>Preparation Method</td>
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## COUNTIES

<table>
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<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
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## QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
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## TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
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<th>Rng</th>
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<th>SecType</th>
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## COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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</thead>
<tbody>
<tr>
<td>Brazil Fm.</td>
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## COMMENTS

**CITATIONS**

<table>
<thead>
<tr>
<th>Abbreviated Citation</th>
<th>Internal No.</th>
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<tbody>
<tr>
<td>Company Mine Map Photo</td>
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<td>Surface Mine Datasheet</td>
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**COAL MINE INFORMATION SYSTEM**

*Mine/Pit Data Sheet*

**MINENUMB** 201374  
*Surface*

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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### Start Date

<table>
<thead>
<tr>
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### End Date

<table>
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### Mine Ownership History

<table>
<thead>
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<th>Company Name</th>
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### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### Counties

<table>
<thead>
<tr>
<th>County Name</th>
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<tbody>
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### Quadrangles

<table>
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<tbody>
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### TRS Locations

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<th>Rng</th>
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<th>SecType</th>
<th>Sec</th>
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### Coal Geology

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<th>Thickness (ft)</th>
<th>Roof Lithology</th>
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*Indiana Geological Survey*  
*Indiana University*  
*Friday, July 02, 2010*  

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### COAL MINE INFORMATION SYSTEM

#### Mine/Pit Data Sheet

**MINE NAME HISTORY**

<table>
<thead>
<tr>
<th>Mine Name</th>
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**COUNTIES**

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**COAL GEOLOGY**

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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM
### Mine/Pit Data Sheet

### Mine Name History

<table>
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### Coal Geology

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### Comments

**NOTES AND COMMENTS**

Re-affects #201353

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Indiana Geological Survey
Indiana University
Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### COAL MINE INFORMATION SYSTEM

#### Mine/Pit Data Sheet

#### Surface

<table>
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#### Coal Geology

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Indiana Geological Survey
Indiana University
Friday, July 02, 2010

Explanation of Year Codes:
7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
## Mine/Pit Data Sheet

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### Mine Ownership History

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### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### Counties

<table>
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### TRS Locations

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### Coal Geology

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### Comments

- Production listed with Spencer #6, #7, #8, #8A and #10.
- Re-affects #203186

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*Explanation of Year Codes:*

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

*Indiana Geological Survey*

*Indiana University*

*Friday, July 02, 2010*
## MINENUMB 201381

### Mine/Pit Data Sheet

**Surface**

### MINE NAME HISTORY

<table>
<thead>
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### MINE OWNERSHIP HISTORY

<table>
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- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: Drill
- **Transportation Type**: Truck
- **Preparation Method**: UNKNOWN

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### QUADRANGLES

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### COAL GEOLOGY

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## Coal Mine Information System

### Mine/Pit Data Sheet

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#### Operations

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#### Quadrangles

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<td>Yes</td>
</tr>
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#### TRS Locations

<table>
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<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
<tr>
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<td>S</td>
<td>4</td>
<td>W</td>
<td>Sec. 7</td>
<td>SW</td>
<td>NW</td>
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#### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-MH NCRDS</td>
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</tbody>
</table>

#### Comments

Map of S-00028 not in IGS file. Permit was revoked and reclamation was likely done by the AML program. Map may be in AML's files in Jasonville.

---

**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
COAL MINE INFORMATION SYSTEM

Mine/Pit Data Sheet

MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schaaf #1 Mine</td>
<td>1980</td>
<td>1981</td>
</tr>
</tbody>
</table>

START DATE

<table>
<thead>
<tr>
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</thead>
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<td>1980</td>
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END DATE

<table>
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<th>MAX</th>
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</thead>
</table>

MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theba Corp.</td>
<td>1980</td>
<td>1981</td>
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</tbody>
</table>

OPERATIONS

<table>
<thead>
<tr>
<th>Coal Removal Method</th>
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<tbody>
<tr>
<td>Removal Equipment</td>
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<tr>
<td>Transportation Type</td>
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</tr>
<tr>
<td>Preparation Method</td>
<td>UNKNOWN</td>
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</tbody>
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COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
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</tbody>
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QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
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TRS LOCATIONS

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<th>Sec</th>
<th>Quarters</th>
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<td>4</td>
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<td>5</td>
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<td>SE</td>
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COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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</thead>
<tbody>
<tr>
<td>Brazil Fm.</td>
<td>-9999</td>
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<td>UNKNOWN</td>
<td>CO-BU NCRDS</td>
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COMMENTS

<table>
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<th>Digital</th>
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<tr>
<td>Data Card</td>
<td>5974</td>
<td>No</td>
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<tr>
<td>Company Mine Map Photo</td>
<td>600322</td>
<td>Yes</td>
</tr>
<tr>
<td>Surface Mine Datasheet</td>
<td>700702</td>
<td>No</td>
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<tr>
<td>Aerial Photo, 1978</td>
<td>999992</td>
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Explanation of Year Codes:
7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown

Indiana Geological Survey
Indiana University
Friday, July 02, 2010
## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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<tbody>
<tr>
<td>Hassfurther #1 Mine</td>
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<td>1982</td>
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### Start Date and End Date

<table>
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<th>Start</th>
<th>MAX</th>
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<th>MAX</th>
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</thead>
<tbody>
<tr>
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<td>1982</td>
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### Mine Ownership History

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
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</thead>
<tbody>
<tr>
<td>Theba Corp.</td>
<td>1981</td>
<td>1982</td>
</tr>
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### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### Counties

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tr>
<td>Spencer</td>
<td>Yes</td>
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</tbody>
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### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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</thead>
<tbody>
<tr>
<td>Dale</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### TRS Locations

- **Twp**: 4
- **DR**: S
- **Rng**: 4
- **DR**: W
- **SecType**: Sec.
- **Sec**: 19
- **Quarters**: SE

### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>-9999</td>
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<td>UNKNOWN</td>
<td>CO-MH NCRDS</td>
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### Comments

### Citations

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**Indiana Geological Survey**  
Indiana University  
Friday, July 02, 2010  

**Explanation of Year Codes:**  
- 7007 Mine is currently in operation  
- 1001 Minimum date is unknown  
- 9009 Maximum date is unknown
**COAL MINE INFORMATION SYSTEM**

**Mine/Pit Data Sheet**

**MINENUMB** 201390

**Surface**

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
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<tr>
<td>Fisher #1 Mine</td>
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### Start Date

<table>
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<tr>
<th>MIN</th>
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### End Date

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<tr>
<th>MIN</th>
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### Mine Ownership History

<table>
<thead>
<tr>
<th>Company Name</th>
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<tbody>
<tr>
<td>Fisher Holding Co., Inc.</td>
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### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### Counties

<table>
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<tr>
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### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Dale</td>
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### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
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<td>5</td>
<td>W</td>
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<td>NW NE</td>
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### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>-9999</td>
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<td>CO-BU NCRDS</td>
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### Comments

### Citations

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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
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- 9009 Maximum date is unknown
## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
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<td>1945</td>
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## START DATE

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<td>1001</td>
<td>1942</td>
<td>1946</td>
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## END DATE

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<td>1940</td>
<td>1945</td>
<td>1950</td>
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## MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
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<th>Start</th>
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</thead>
<tbody>
<tr>
<td>UNKNOWN</td>
<td>1942</td>
<td>1945</td>
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## OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

## COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
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## QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Dale</td>
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## TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
<tr>
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## COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
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## COMMENTS

**NOTES AND COMMENTS**

Shown as mined on 1950 aerial photo.

**CITATIONS**

- **Abbreviated Citation**: Surface Mine Datasheet
- **Internal No.**: 701201
- **Digital**: No
- **Aerial Photo, 1950**: 999931
  - **Yes**
## Mine/Pit Data Sheet

### Mine Name History

<table>
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### Start Date

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### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### Counties

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
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### Quadrangles

<table>
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<tr>
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<tr>
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### TRS Locations

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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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### Coal Geology

<table>
<thead>
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<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
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<td>CO-MH PCM</td>
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### Comments

**NOTES AND COMMENTS**

Not present on 1949 aerial photo; completed by 1953 aerial photo.

**Citations**

<table>
<thead>
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<td>Aerial Photo, 1953</td>
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# COAL MINE INFORMATION SYSTEM

## Mine/Pit Data Sheet

### Mine Name History

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<th>Mine Name</th>
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### Start Date

<table>
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<table>
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</thead>
<tbody>
<tr>
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<td>1978</td>
<td>1978</td>
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### Mine Ownership History

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Teegarten, Paul A., Co.</td>
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<td>1978</td>
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### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### Counties

<table>
<thead>
<tr>
<th>County Name</th>
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<tr>
<td>Spencer</td>
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### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
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<tbody>
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<td>NE NE</td>
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<td>5</td>
<td>W</td>
<td>Sec. 3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
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### Comments

- **NOTES AND COMMENTS**: Re-affects 201456 and 201451

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**Indiana Geological Survey**

**Indiana University**

**Friday, July 02, 2010**

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## MINE NAME HISTORY

<table>
<thead>
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## MINE OWNERSHIP HISTORY

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## OPERATIONS

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<tr>
<td>Preparation Method</td>
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## COUNTIES

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## QUADRANGLES

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## TRS LOCATIONS

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## COAL GEOLOGY

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<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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## COMMENTS

**NOTES AND COMMENTS**

Re-affects 201498

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Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
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<th>Mine Name</th>
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### Mine Ownership History

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>D. and S. Coal, Inc.</td>
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### Operations

- Coal Removal Method: UNKNOWN
- Removal Equipment: UNKNOWN
- Transportation Type: UNKNOWN
- Preparation Method: UNKNOWN

### Counties

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<tr>
<td>Spencer</td>
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### Quadrangles

<table>
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<th>Quadrangle Name</th>
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<tbody>
<tr>
<td>Santa Claus</td>
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### TRS Locations

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### Coal Geology

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# COAL MINE INFORMATION SYSTEM

## Mine/Pit Data Sheet

### Mine Name History

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### Mine Ownership History

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### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### Counties

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### Quadrangles

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<tr>
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### TRS Locations

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### Coal Geology

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## Mine/Pit Data Sheet

### MINE NAME HISTORY

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### MINE OWNERSHIP HISTORY

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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

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### QUADRANGLES

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### TRS LOCATIONS

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### COAL GEOLOGY

<table>
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<th>Thickness (ft)</th>
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<th>Floor Lithology</th>
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### CITATIONS

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### Mine/Pit Data Sheet

#### Coal Mine Information System

**Mine Name History**

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**Operations**

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#### Counties

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<tr>
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#### Quadrangles

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<tr>
<th>Quadrangle Name</th>
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<tr>
<td>Santa Claus</td>
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#### TRS Locations

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#### Coal Geology

<table>
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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<td>IGS Coal Database</td>
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<td>999988</td>
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*Indiana Geological Survey*

*Indiana University*

*Friday, July 02, 2010*
## COAL MINE INFORMATION SYSTEM

**Mine/Pit Data Sheet**

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
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### MINE OWNERSHIP HISTORY

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<th>County Name</th>
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<tbody>
<tr>
<td>Spencer</td>
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### QUADRANGLES

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<tbody>
<tr>
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###TRS LOCATIONS

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<th>Quarters</th>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
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<td>-9999</td>
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<tr>
<td>Strip Study Map</td>
<td>999988</td>
<td>Yes</td>
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Indiana Geological Survey
Indiana University

Friday, July 02, 2010

---

Explanation of Year Codes:
7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
**COAL MINE INFORMATION SYSTEM**

**Mine/Pit Data Sheet**

**MINENUMB 201403**

**Surface**

### MINE NAME HISTORY

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<thead>
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### MINE OWNERSHIP HISTORY

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<th>Company Name</th>
<th>Start</th>
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<tbody>
<tr>
<td>Walker and Son Coal Co.</td>
<td>1975</td>
<td>1975</td>
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<table>
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<tr>
<td>Preparation Method</td>
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<tbody>
<tr>
<td>Santa Claus</td>
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### TRS LOCATIONS

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<th>SecType</th>
<th>Sec.</th>
<th>Quarters</th>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010
### MINE NAME HISTORY

<table>
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### MINE OWNERSHIP HISTORY

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<tr>
<td>Walker and Son Coal Co.</td>
<td>1975</td>
<td>1976</td>
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### OPERATIONS

<table>
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<tr>
<td>Removal Equipment</td>
<td>UNKNOWN</td>
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<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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### QUADRANGLES

<table>
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<th>Quadrangle Name</th>
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<tbody>
<tr>
<td>Santa Claus</td>
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### TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>30</td>
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### COMMENTS

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<td>Surface Mine Datasheet</td>
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<td>Strip Study Map</td>
<td>9999988</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
**COAL MINE INFORMATION SYSTEM**

**Mine/Pit Data Sheet**

<table>
<thead>
<tr>
<th>MINENUMB</th>
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### MINE NAME HISTORY

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</thead>
<tbody>
<tr>
<td>Mulzer Mine</td>
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<td>1972</td>
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### START DATE

<table>
<thead>
<tr>
<th>MIN</th>
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### END DATE

<table>
<thead>
<tr>
<th>MIN</th>
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<td>1972</td>
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### MINE OWNERSHIP HISTORY

<table>
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<tbody>
<tr>
<td>Mulzer Bros.</td>
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### OPERATIONS

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<tr>
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<tbody>
<tr>
<td>Removal Equipment</td>
<td>Drag/Shovel</td>
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<td>Transportation Type</td>
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<td>Preparation Method</td>
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### COUNTIES

<table>
<thead>
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<th>County Name</th>
<th>Primary</th>
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<tr>
<td>Spencer</td>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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<table>
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### TRS LOCATIONS

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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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### COMMENTS

**NOTES AND COMMENTS**

This mine has pits throughout Spencer county.

Re-affects 201408

---

**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

---

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
COAL MINE INFORMATION SYSTEM
Mine/Pit Data Sheet

<table>
<thead>
<tr>
<th>MINE NAME HISTORY</th>
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<tbody>
<tr>
<td>Mine Name</td>
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<tr>
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<td>Strip Study Map</td>
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Indiana Geological Survey
Indiana University
Friday, July 02, 2010

Explanation of Year Codes:
7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
<table>
<thead>
<tr>
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## Coal Geology

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## COAL MINE INFORMATION SYSTEM
### Mine/Pit Data Sheet

### MINE NAME HISTORY

<table>
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### MINE OWNERSHIP HISTORY

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### OPERATIONS

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<td>Preparation Method</td>
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<table>
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<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
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<th>DR</th>
<th>SecType</th>
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<td>W</td>
<td>Sec.</td>
<td>16</td>
<td>NE</td>
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</table>

### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville</td>
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<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-BU PCM</td>
</tr>
</tbody>
</table>

### NOTES AND COMMENTS

Not mined in 1940 aerial photo; shown as mined on 1950 aerial photo.

### CITATIONS

<table>
<thead>
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<th>Internal No.</th>
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<td>701018</td>
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<td>Aerial Photo, 1950</td>
<td>999931</td>
<td>No</td>
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<tr>
<td>Aerial Photo, 1940</td>
<td>999967</td>
<td>No</td>
</tr>
<tr>
<td>Strip Study Map</td>
<td>999988</td>
<td>Yes</td>
</tr>
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Indiana Geological Survey
Indiana University
Friday, July 02, 2010

Explanation of Year Codes:

7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
## Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
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</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
<td>1944</td>
<td>1946</td>
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## Start Date

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<table>
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<tr>
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## Operations

<table>
<thead>
<tr>
<th>Coal Removal Method</th>
<th>Removal Equipment</th>
<th>Transportation Type</th>
<th>Preparation Method</th>
</tr>
</thead>
<tbody>
<tr>
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## Counties

<table>
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<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
</tbody>
</table>

## Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
</table>

## TRS Locations

<table>
<thead>
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<th>DR</th>
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<th>DR</th>
<th>SecType</th>
<th>Sec.</th>
<th>Quarters</th>
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<tbody>
<tr>
<td>5</td>
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<td>5</td>
<td>W</td>
<td>Sec. 9</td>
<td></td>
<td></td>
</tr>
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## Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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</thead>
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<td>UNKNOWN</td>
<td>CO-BU PCM</td>
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## Comments

**Notes and Comments**

Not mined on 1940 aerial photo; shown as mined on 1950 aerial photo.

## Citations

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<thead>
<tr>
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<th>Internal No.</th>
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<td>Aerial Photo, 1940</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- **7007** Mine is currently in operation
- **1001** Minimum date is unknown
- **9009** Maximum date is unknown
## Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
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## Start Date and End Date

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## Operating History

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## Counties and Quadrangles

<table>
<thead>
<tr>
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<th>Primary</th>
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<th>Primary</th>
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</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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<td>Yes</td>
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## TRS Locations

<table>
<thead>
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<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
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<thead>
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<tbody>
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<td>UNKNOWN</td>
<td>CO-BU PCM</td>
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## Comments

Not mined on 1950 aerial photo; shown as mined on 1955 aerial photo.

## Citations

<table>
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<th>Internal No.</th>
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<td>Aerial Photo, 1955</td>
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<tr>
<td>Strip Study Map</td>
<td>999988</td>
<td>Yes</td>
</tr>
</tbody>
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**Explanation of Year Codes:**

- **7007** Mine is currently in operation
- **1001** Minimum date is unknown
- **9009** Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

**Mine/Pit Data Sheet**

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
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### Start Date

<table>
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<td>1941</td>
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### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### Counties

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<tr>
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<td>Yes</td>
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<tr>
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<td>Yes</td>
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### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
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<th>Quarters</th>
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<tbody>
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### Coal Geology

<table>
<thead>
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<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
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### Comments

- Mining active on 1940 aerial photo; Mining completed on 1950 aerial photo.

### Citations

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<td>Aerial Photo, 1950</td>
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<tr>
<td>Aerial Photo, 1940</td>
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<td>No</td>
</tr>
<tr>
<td>Strip Study Map</td>
<td>999988</td>
<td>Yes</td>
</tr>
</tbody>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
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</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
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## START DATE

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## END DATE

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## MINE OWNERSHIP HISTORY

<table>
<thead>
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<tbody>
<tr>
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## OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

## COUNTRIES COUNTIES QUADRANGLES TRS LOCATIONS

<table>
<thead>
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<th>Primary</th>
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<th>SecType</th>
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<tbody>
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<td>Yes</td>
<td>Santa Claus</td>
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<td>Sec.</td>
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## COAL GEOLOGY

<table>
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<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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## COMMENTS

**NOTES AND COMMENTS**

Not mined in 1950 aerial photo; mining completed on 1955 aerial photo.

## CITATIONS

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<tr>
<td>Aerial Photo, 1955</td>
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<tr>
<td>Strip Study Map</td>
<td>999988</td>
<td>Yes</td>
</tr>
</tbody>
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**Indiana Geological Survey**  
Indiana University  
Friday, July 02, 2010

---

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
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## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
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</tr>
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## MINE OWNERSHIP HISTORY

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</thead>
<tbody>
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## START DATE

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## END DATE

<table>
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## OPERATIONS

<table>
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<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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## COUNTIES

<table>
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<tr>
<th>County Name</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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## QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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## TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
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## COAL GEOLOGY

<table>
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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
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<th>Floor Lithology</th>
<th>Original Correlation</th>
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## COMMENTS

**NOTES AND COMMENTS**

Not mined on 1950 aerial photo; mining completed on 1955 aerial photo.

**CITATIONS**

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<td>Aerial Photo, 1955</td>
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<td>999988</td>
<td>Yes</td>
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</table>

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**Explanation of Year Codes:**

- **7007** Mine is currently in operation
- **1001** Minimum date is unknown
- **9009** Maximum date is unknown
**COAL MINE INFORMATION SYSTEM**

**Mine/Pit Data Sheet**

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
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### START DATE

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### END DATE

<table>
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<td>1954</td>
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### MINE OWNERSHIP HISTORY

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### OPERATIONS

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
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### TRS LOCATIONS

<table>
<thead>
<tr>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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</thead>
<tbody>
<tr>
<td>5</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec.</td>
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<td>SW</td>
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</table>

### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
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### COMMENTS

**NOTES AND COMMENTS**

Not mined on 1950 aerial photo; shown as mined on 1955 aerial photo.

### CITATIONS

<table>
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<td>999931</td>
<td>No</td>
</tr>
<tr>
<td>Aerial Photo, 1955</td>
<td>999932</td>
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<td>Strip Study Map</td>
<td>999988</td>
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Indiana Geological Survey
Indiana University
Friday, July 02, 2010
## Mine/Pit Data Sheet

### 201417 Surface

**COAL MINE INFORMATION SYSTEM**

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
<td>1967</td>
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<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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<table>
<thead>
<tr>
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<th>Rng</th>
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<th>Quarters</th>
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### Mine Name History

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<th>MAX</th>
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<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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### Counties

<table>
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<tbody>
<tr>
<td>Spencer</td>
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</tr>
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</table>

### Quadrangles

<table>
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<th>Quarantine Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
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### TRS Locations

<table>
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<tr>
<th>Twp</th>
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<th>Rng</th>
<th>DR</th>
<th>Sec Type</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
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<td>5</td>
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<td>5</td>
<td>W</td>
<td>Sec.</td>
<td>4</td>
<td>NW SE</td>
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### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
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<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
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### Comments

Not mined on 1955 aerial photo; shown as mined on 1974 aerial photo.

## Citations

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<td>Aerial Photo, 1955</td>
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<td>Aerial Photo, 1974</td>
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<td>No</td>
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<tr>
<td>Strip Study Map</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

#### MINE NAME HISTORY

<table>
<thead>
<tr>
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<tr>
<td>Quadstar #2 Mine</td>
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<td>1979</td>
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#### START DATE

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#### MINE OWNERSHIP HISTORY

<table>
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<tbody>
<tr>
<td>Quadstar Mining Corp.</td>
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#### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

#### COUNTIES

<table>
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<tr>
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<td>Spencer</td>
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#### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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#### TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
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<th>Sec</th>
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#### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
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#### COMMENTS

#### CITATIONS

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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- **7007 Mine is currently in operation**
- **1001 Minimum date is unknown**
- **9009 Maximum date is unknown**
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

**Minenum:** 201419  
**Surface**

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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<tbody>
<tr>
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<td>1946</td>
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### Start Date

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<tr>
<td>1945</td>
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<td>1949</td>
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### Mine Ownership History

<table>
<thead>
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<td>Mulzer Mines Co.</td>
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### Operations

- **Coal Removal Method:** UNKNOWN
- **Removal Equipment:** Drag/Loader
- **Transportation Type:** UNKNOWN
- **Preparation Method:** UNKNOWN

### Counties

<table>
<thead>
<tr>
<th>County Name</th>
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<tr>
<td>Spencer</td>
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### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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### TRS Locations

<table>
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<tr>
<th>Twp</th>
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<th>Rng</th>
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<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
<tr>
<td>5</td>
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### Coals Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
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<td>CO-M</td>
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### Comments

- Not mined on 1940 aerial photo, shown as mined on 1950 aerial photo.
- This mine has pits throughout Spencer Co.

### Citations

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<td>Strip Study Map</td>
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**Explanation of Year Codes:**

- **7007 Mine is currently in operation**
- **1001 Minimum date is unknown**
- **9009 Maximum date is unknown**

---

**Indiana Geological Survey**  
**Indiana University**  
Friday, July 02, 2010
## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
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</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
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## MINE OWNERSHIP HISTORY

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## OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

## COUNTIES

<table>
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<tr>
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## QUADRANGLES

<table>
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<tr>
<th>Quadrangle Name</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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</tbody>
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## TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
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<th>Rng</th>
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<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tr>
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## COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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## COMMENTS

Not mined on 1950 aerial photo. Shown as mined on 1955 aerial photo.

## CITATIONS

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<tbody>
<tr>
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<td>Aerial Photo, 1950</td>
<td>999931</td>
<td>No</td>
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<tr>
<td>Aerial Photo, 1955</td>
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<td>No</td>
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<td>Strip Study Map</td>
<td>999988</td>
<td>Yes</td>
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## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

#### MINE NAME HISTORY

<table>
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<tr>
<th>Mine Name</th>
<th>Start</th>
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#### MINE OWNERSHIP HISTORY

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#### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

#### COUNTIES

<table>
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<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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#### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
<tr>
<td>6</td>
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<td>W</td>
<td>Sec. 8</td>
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<td>5</td>
<td>W</td>
<td>Sec. 8</td>
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#### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
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<td>Minshall/Buffalovie Coal Mbr.</td>
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#### COMMENTS

- **Abbreviated Citation**: Surface Mine Datasheet
- **Internal No.**: 701030
- **Digital**: No

#### CITATIONS

- **Surface Mine Datasheet**: 701030, No
- **Aerial Photo, 1974**: 999956, Yes
- **Strip Study Map**: 999988, No

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**Indiana Geological Survey**  
**Indiana University**  
Friday, July 02, 2010

---

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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<tr>
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<td>1958</td>
<td>1965</td>
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### Mine Ownership History

<table>
<thead>
<tr>
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<tr>
<td>Mulzer Bros.</td>
<td>1958</td>
<td>1965</td>
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### Operations

<p>| | |</p>
<table>
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<tbody>
<tr>
<td>Coal Removal Method</td>
<td>UNKNOWN</td>
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<tr>
<td>Removal Equipment</td>
<td>UNKNOWN</td>
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<tr>
<td>Transportation Type</td>
<td>UNKNOWN</td>
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<tr>
<td>Preparation Method</td>
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### Counties

<table>
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<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
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<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
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<tbody>
<tr>
<td>5</td>
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<td>5</td>
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### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>32</td>
<td>3.7</td>
<td>Fs</td>
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<td>CO-BU    HCH</td>
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### Comments

### Citations

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<td>701031</td>
<td>No</td>
</tr>
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<td>Surface Mine Datasheet</td>
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<td>No</td>
</tr>
<tr>
<td>Strip Study Map</td>
<td>999988</td>
<td>Yes</td>
</tr>
</tbody>
</table>

---

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

---

**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010
## COAL MINE INFORMATION SYSTEM

**Mine/Pit Data Sheet**

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mulzer Mine</td>
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### Start Date

<table>
<thead>
<tr>
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<th>MIN</th>
<th>End</th>
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<tr>
<td>1952</td>
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### End Date

<table>
<thead>
<tr>
<th>MIN</th>
<th>Start</th>
<th>MAX</th>
<th>MIN</th>
<th>End</th>
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<td>1952</td>
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### Mine Ownership History

<table>
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</thead>
<tbody>
<tr>
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<td>1953</td>
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### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### Counties

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tr>
<td>Spencer</td>
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### Quadrangles

<table>
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<tr>
<th>Quadrangle Name</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
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### TRS Locations

<table>
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<tr>
<th>Twp</th>
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<td>W</td>
<td>Sec.</td>
<td>29</td>
<td>NE</td>
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</table>

### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffalovie Coal Mbr.</td>
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<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
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### Comments

- **Notes and Comments**
  - This mine has multiple pits throughout Spencer county.

### Citations

<table>
<thead>
<tr>
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<th>Digital</th>
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<td>No</td>
</tr>
<tr>
<td>Surface Mine Datasheet</td>
<td>701032</td>
<td>No</td>
</tr>
<tr>
<td>Surface Mine Datasheet</td>
<td>703130</td>
<td>No</td>
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<td>Strip Study Map</td>
<td>999988</td>
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### COAL MINE INFORMATION SYSTEM

#### Mine/Pit Data Sheet

#### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mulzer Mine</td>
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<td>1974</td>
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#### MINE OWNERSHIP HISTORY

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</thead>
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<td>1974</td>
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</thead>
<tbody>
<tr>
<td>Removal Equipment</td>
<td>Drag/Shovel</td>
</tr>
<tr>
<td>Transportation Type</td>
<td>Railroad/Truck</td>
</tr>
<tr>
<td>Preparation Method</td>
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#### COUNTIES

<table>
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<tr>
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<tr>
<td>Spencer</td>
<td>Yes</td>
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#### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
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<tbody>
<tr>
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<td>W</td>
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<td>NE</td>
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<td>5</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec. 29</td>
<td>SE</td>
<td></td>
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</tbody>
</table>

#### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>32</td>
<td>3.7</td>
<td>Fs</td>
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<td>CO-BU HCH</td>
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#### COMMENTS

#### CITATIONS

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<td>Powell Negative</td>
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<td>No</td>
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<tr>
<td>Surface Mine Datasheet</td>
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<td>No</td>
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<td>Strip Study Map</td>
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## COAL MINE INFORMATION SYSTEM

**Mine/Pit Data Sheet**

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
<td>1948</td>
<td>1959</td>
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### START DATE

- **MIN**
  - Start: 1948
  - MAX: 1948

### END DATE

- **MIN**
  - End: 1959
  - MAX: 1959

### MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>UNKNOWN</td>
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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### COUNTIES

<table>
<thead>
<tr>
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### QUADRANGLES

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<tr>
<th>Twp</th>
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<td>NE</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
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### COMMENTS

- **NOTES AND COMMENTS**
  
  Operated from 1948-50, then from 1958-59.

### CITATIONS

<table>
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<tr>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## Mine/Pit Data Sheet

### COAL MINE INFORMATION SYSTEM

**Mine Name History**

<table>
<thead>
<tr>
<th>Mine Name</th>
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<tr>
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**Start Date**

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**End Date**

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### MINE OWNERSHIP HISTORY

<table>
<thead>
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### OPERATIONS

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Removal Equipment</td>
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<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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### Counties

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<tbody>
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<tr>
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<table>
<thead>
<tr>
<th>Twp</th>
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<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<td>-9999</td>
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<td>UNKNOWN</td>
<td>CO-BU NCRDS</td>
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### Comments

- **NOTES AND COMMENTS**
  - Not present on 1955 aerial photo; shown as mined on 1960 USGS topo quad.

### Citations

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<tr>
<th>Abbreviated Citation</th>
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**Indiana Geological Survey**

**Indiana University**

**Friday, July 02, 2010**

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
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<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
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## START DATE

<table>
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<th>MAX</th>
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## MINE OWNERSHIP HISTORY

<table>
<thead>
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<tbody>
<tr>
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<td>1947</td>
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## OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

## COUNTIES

<table>
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<tbody>
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## COAL GEOLOGY

<table>
<thead>
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<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-BU PCM</td>
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</table>

## COMMENTS

**NOTES AND COMMENTS**

Not mined on 1940 aerial photo, mined completely in 1950 aerial photo.

**CITATIONS**

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<th>Abbreviated Citation</th>
<th>Internal No.</th>
<th>Digital</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Mine Datasheet</td>
<td>701036</td>
<td>No</td>
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<tr>
<td>Aerial Photo, 1950</td>
<td>999931</td>
<td>No</td>
</tr>
<tr>
<td>Aerial Photo, 1940</td>
<td>999967</td>
<td>No</td>
</tr>
<tr>
<td>Strip Study Map</td>
<td>999988</td>
<td>Yes</td>
</tr>
</tbody>
</table>

---

_Indiana Geological Survey_  
_Indiana University_  
_Friday, July 02, 2010_

_**Explanation of Year Codes:**_

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
<td>1949</td>
<td>1957</td>
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### START DATE

<table>
<thead>
<tr>
<th>MIN</th>
<th>Start</th>
<th>MAX</th>
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<th>End</th>
<th>MAX</th>
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<tbody>
<tr>
<td></td>
<td>1949</td>
<td></td>
<td>1957</td>
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<td></td>
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### END DATE

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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1949</td>
<td></td>
<td>1957</td>
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<td></td>
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</table>

### MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
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</tr>
</thead>
<tbody>
<tr>
<td>UNKNOWN</td>
<td>1949</td>
<td>1957</td>
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</tbody>
</table>

### OPERATIONS

<table>
<thead>
<tr>
<th>Coal Removal Method</th>
<th>UNKNOWN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Removal Equipment</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Transportation Type</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Preparation Method</td>
<td>UNKNOWN</td>
</tr>
</tbody>
</table>

### COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Sec.</td>
<td>21</td>
<td>SW</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-BU PCM</td>
</tr>
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</table>

### COMMENTS

Operated from 1949-50, then from 1956-57, according to data sheet #701038.

### CITATIONS

<table>
<thead>
<tr>
<th>Abbreviated Citation</th>
<th>Internal No.</th>
<th>Digital</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powell Negative</td>
<td>402466</td>
<td>No</td>
</tr>
<tr>
<td>Surface Mine Datasheet</td>
<td>701038</td>
<td>No</td>
</tr>
<tr>
<td>Strip Study Map</td>
<td>999988</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010

Explanation of Year Codes:  
7007 Mine is currently in operation  
1001 Minimum date is unknown  
9009 Maximum date is unknown
## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mulzer Mine</td>
<td>1962</td>
<td>1966</td>
</tr>
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</table>

### Start Date

<table>
<thead>
<tr>
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<tbody>
<tr>
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<td>1962</td>
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<table>
<thead>
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</thead>
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<tr>
<td>1966</td>
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<td>1966</td>
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### Mine Ownership History

<table>
<thead>
<tr>
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<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mulzer Bros.</td>
<td>1962</td>
<td>1966</td>
</tr>
</tbody>
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### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: Drag/Shovel
- **Transportation Type**: Railroad/Truck
- **Preparation Method**: Screened

### Counties

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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</tbody>
</table>

### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec.</td>
<td>29</td>
<td>NE</td>
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</table>

### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>32</td>
<td>3.7</td>
<td>Fs</td>
<td>Fmmr</td>
<td>CO-BU   HCH</td>
</tr>
</tbody>
</table>

### Comments

This mine has pits throughout Spencer county.

### Citations

<table>
<thead>
<tr>
<th>Abbreviated Citation</th>
<th>Internal No.</th>
<th>Digital</th>
</tr>
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<tr>
<td>Data Card</td>
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<tr>
<td>Powell Negative</td>
<td>402465</td>
<td>No</td>
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<tr>
<td>Surface Mine Datasheet</td>
<td>701040</td>
<td>No</td>
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<td>Strip Study Map</td>
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## MINE NAME HISTORY

<table>
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## START DATE

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<table>
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<tbody>
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## MINE OWNERSHIP HISTORY

<table>
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<th>Company Name</th>
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<tbody>
<tr>
<td>Removal Equipment</td>
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<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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## COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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## QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
</table>

## TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
<tr>
<td>6</td>
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<td>5</td>
<td>W</td>
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## COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>-9999</td>
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<td>CO-BU NCRDS</td>
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## COMMENTS

## CITATIONS

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Surface Mine Datasheet</td>
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<td>Strip Study Map</td>
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**Coal Mine Information System**

**Mine/Pit Data Sheet**

**Mine Name History**

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
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<tr>
<td>Mulzer Mine</td>
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**Start Date**

<table>
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<tr>
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<tr>
<td>1960</td>
<td>1960</td>
<td>1960</td>
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**End Date**

<table>
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<tr>
<th>MIN</th>
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<tbody>
<tr>
<td>1962</td>
<td>1962</td>
<td>1962</td>
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**Mine Ownership History**

<table>
<thead>
<tr>
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<tr>
<td>Mulzer Bros.</td>
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<td>1962</td>
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**Operations**

- Coal Removal Method: UNKNOWN
- Removal Equipment: UNKNOWN
- Transportation Type: UNKNOWN
- Preparation Method: UNKNOWN

**Counties**

<table>
<thead>
<tr>
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<tr>
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**Quadrangles**

<table>
<thead>
<tr>
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<tr>
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**TRS Locations**

<table>
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<tr>
<th>Twp</th>
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**Coal Geology**

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
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<th>Floor Lithology</th>
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</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>32</td>
<td>3.7</td>
<td>Fs</td>
<td>Fmmr</td>
<td>CO-BU HCH</td>
</tr>
</tbody>
</table>

**Comments**

- There are multiple pits for Mulzer Mine.

**Citations**

<table>
<thead>
<tr>
<th>Abbreviated Citation</th>
<th>Internal No.</th>
<th>Digital</th>
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<tr>
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<td>Surface Mine Datasheet</td>
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<td>Strip Study Map</td>
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</table>

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
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</thead>
<tbody>
<tr>
<td>Patmore Mine</td>
<td>1977</td>
<td>1978</td>
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## START DATE

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## MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Foertsch Construction Co, Inc.</td>
<td>1977</td>
<td>1978</td>
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</table>

## OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

## COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
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<tbody>
<tr>
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<th>Primary</th>
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<td>Yes</td>
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</table>

## TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<td>Sec.</td>
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## COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
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<td>4</td>
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</table>

## COMMENTS

- **NOTES AND COMMENTS**: Re-affects 201434

## CITATIONS

- **Abbreviated Citation**
- **Internal No.**
- **Digital**

- **Data Card**: 5999 No
- **Interim Permit**: 10178 Yes
- **Surface Mine Datasheet**: 701043 No

---

**Explanation of Year Codes**:

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
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<td>1970</td>
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## END DATE

<table>
<thead>
<tr>
<th>MIN</th>
<th>Start</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1960</td>
<td>1965</td>
<td>1974</td>
</tr>
</tbody>
</table>

## OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

## COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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<th>Rng</th>
<th>DR</th>
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## COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
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<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
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<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-BU NCRDS</td>
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</tbody>
</table>

## COMMENTS

Not present on 1960 USGS topo quad; shown as mined on 1978 aerial photo.

## CITATIONS

- **Abbreviated Citation**: Surface Mine Datasheet 701044  No
- **Abbreviated Citation**: Aerial Photo, 1978 999992  Yes

---

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## Mine/Pit Data Sheet

<table>
<thead>
<tr>
<th>MINE NAME HISTORY</th>
<th>START DATE</th>
<th>END DATE</th>
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</thead>
<tbody>
<tr>
<td>Mine Name</td>
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<th>MINE OWNERSHIP HISTORY</th>
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<tr>
<td>Company Name</td>
<td>Coal Removal Method</td>
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<td>Shelton, Paul, Co.</td>
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<tr>
<td></td>
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</tr>
<tr>
<td></td>
<td>Drag/Loader</td>
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<td></td>
<td>Transportation Type</td>
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</tr>
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## Counties

<table>
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## Quadrangles

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## TRS Locations

<table>
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<tr>
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<th>SecType</th>
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<tr>
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## Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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**COAL MINE INFORMATION SYSTEM**

Mine/Pit Data Sheet

**MINENUMB**

Surface

### MINE NAME HISTORY

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<td>Sibrel #1 Mine</td>
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### MINE OWNERSHIP HISTORY

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<td>B. and M. Coal Co.</td>
<td>1974</td>
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<tr>
<td>Preparation Method</td>
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### QUADRANGLES

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<tr>
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### TRS LOCATIONS

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<tr>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<td>W</td>
<td>Sec.</td>
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<td>NE NW</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tr>
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<td>Fs</td>
<td>Fmmr</td>
<td>CO-BU HCH</td>
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### CITATIONS

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</tr>
<tr>
<td>Strip Study Map</td>
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Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010

Explanation of Year Codes:
7007 Mine is currently in operation  
1001 Minimum date is unknown  
9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

#### MINENUMB: 201439

### MINE NAME HISTORY

<table>
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<tr>
<th>Mine Name</th>
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<tr>
<td>Corum #1 Mine</td>
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### MINE OWNERSHIP HISTORY

<table>
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<tbody>
<tr>
<td>Walker and Sons Coal Co.</td>
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### OPERATIONS

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Removal Equipment</td>
<td>UNKNOWN</td>
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<tr>
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<tr>
<td>Preparation Method</td>
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### COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
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<tbody>
<tr>
<td>Spencer</td>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
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### TRS LOCATIONS

<table>
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<tr>
<th>Twp</th>
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<tr>
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<td>W</td>
<td>Sec.</td>
<td>3</td>
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<td>6</td>
<td>S</td>
<td>5</td>
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<td>Sec.</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
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<th>Original Correlation</th>
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<tr>
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### COMMENTS

### CITATIONS

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<td>Strip Study Map</td>
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**Indiana Geological Survey**

**Indiana University**

**Friday, July 02, 2010**

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
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## COAL MINE INFORMATION SYSTEM

**Mine/Pit Data Sheet**

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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<tbody>
<tr>
<td>Kelco #1 Mine</td>
<td>1977</td>
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### COUNTIES

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<tbody>
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<td>5</td>
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<td>Sec.</td>
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### OPERATIONS

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<tr>
<th>Coal Removal Method</th>
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<tr>
<td>Removal Equipment</td>
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<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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### MINE OWNERSHIP HISTORY

<table>
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<td>Kelco, Inc.</td>
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### MINE GEOLOGY

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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

---

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

#### Mine Name History

<table>
<thead>
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<td>1956</td>
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<table>
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<tr>
<td>Spencer</td>
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#### Quadrangle Name

<table>
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<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
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#### Twp | DR | Rng | DR | SecType | Sec | Quarters
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#### Coal Seam/Member

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<tr>
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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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#### Notes and Comments

Active on 1955 aerial photo; shown as mined on 1960 USGS topo quad.

#### Citations

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Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010

Explanation of Year Codes:

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## COAL MINE INFORMATION SYSTEM
### Mine/Pit Data Sheet

<table>
<thead>
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<th>Mine Name</th>
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<th>Start</th>
<th>MAX</th>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
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<table>
<thead>
<tr>
<th>Company Name</th>
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<tbody>
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<td>UNKNOWN</td>
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<td>1975</td>
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### County Name Primary | Quadrangle Name Primary | Twp | DR | Rng | DR | SecType | Sec | Quarters |
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### Coal Seam/Member Depth (ft) Thickness (ft) Roof Lithology Floor Lithology Original Correlation
| Minshall/Buffaloville Coal Mbr. | -9999 | -9999 | UNKNOWN | UNKNOWN | CO-BU NCRDS |

### Notes and Comments
Re-affects 201453

### Citations
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**Indiana Geological Survey**
**Indiana University**
Friday, July 02, 2010

**Explanation of Year Codes:**
7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
# COAL MINE INFORMATION SYSTEM

## Mine/Pit Data Sheet

### MINE NAME HISTORY

<table>
<thead>
<tr>
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<th>Start</th>
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### START DATE

<table>
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### END DATE

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<tr>
<td>1943</td>
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### MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
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<tr>
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### OPERATIONS

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<tr>
<td>Preparation Method</td>
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### COUNTIES

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<tr>
<td>Spencer</td>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
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<tbody>
<tr>
<td>Santa Claus</td>
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### TRS LOCATIONS

<table>
<thead>
<tr>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
<tr>
<td>6</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
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<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<td>Minshall/Buffaloville Coal Mbr.</td>
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### COMMENTS

NOTES AND COMMENTS

Not mined on 1940 aerial photo. Shown as mined on 1950 aerial photo.

### CITATIONS

<table>
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<tr>
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<td>701051</td>
<td>No</td>
</tr>
<tr>
<td>Aerial Photo, 1950</td>
<td>999931</td>
<td>No</td>
</tr>
<tr>
<td>Aerial Photo, 1940</td>
<td>999967</td>
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<td>Strip Study Map</td>
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Indiana Geological Survey
Indiana University
Friday, July 02, 2010

**Explanation of Year Codes:**

7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM
### Mine/Pit Data Sheet

#### MINE NAME HISTORY
<table>
<thead>
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<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
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#### END DATE
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#### MINE OWNERSHIP HISTORY
<table>
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</thead>
<tbody>
<tr>
<td>Mulzer Bros.</td>
<td>1953</td>
<td>1954</td>
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#### OPERATIONS
- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

#### COUNTIES
<table>
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#### QUADRANGLES
<table>
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<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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<table>
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<tr>
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<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
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<th>Quarters</th>
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#### COAL GEOLOGY
<table>
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<tr>
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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<td>Minshall/Buffaloville Coal Mbr.</td>
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<td>-9999</td>
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<td>CO-BU PCM</td>
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#### COMMENTS

#### CITATIONS

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<td>No</td>
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<tr>
<td>Surface Mine Datasheet</td>
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<td>No</td>
</tr>
<tr>
<td>IGS Coal Database</td>
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<td>No</td>
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<tr>
<td>Strip Study Map</td>
<td>9999988</td>
<td>Yes</td>
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**Indiana Geological Survey**  
**Indiana University**  
Friday, July 02, 2010

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### MINE NAME HISTORY

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<tr>
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</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
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<td>1954</td>
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<td>1953</td>
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<tbody>
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### MINE OWNERSHIP HISTORY

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</thead>
<tbody>
<tr>
<td>Mulzer Bros.</td>
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### OPERATIONS

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<td>Preparation Method</td>
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<table>
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<td>Spencer</td>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
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<tbody>
<tr>
<td>Santa Claus</td>
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### TRS LOCATIONS

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<tbody>
<tr>
<td>5</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
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<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<td>Minshall/Buffaloville Coal Mbr.</td>
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### COMMENTS

### CITATIONS

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<td>Powell Negative</td>
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<tr>
<td>Surface Mine Datasheet</td>
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<tr>
<td>IGS Coal Database</td>
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<td>Strip Study Map</td>
<td>999988</td>
<td>Yes</td>
</tr>
</tbody>
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**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
# COAL MINE INFORMATION SYSTEM

## Mine/Pit Data Sheet

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Three States #1 Mine</td>
<td>1972</td>
<td>1973</td>
</tr>
<tr>
<td>Nixon Lease Mine</td>
<td>1001</td>
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### MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Three States Coal Corp.</td>
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<tbody>
<tr>
<td>1973</td>
<td>1973</td>
<td>1973</td>
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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: Hi lift/Dozer
- **Transportation Type**: Truck
- **Preparation Method**: Crushed/Mine run

### COUNTIES

<table>
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<tbody>
<tr>
<td>Spencer</td>
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<tr>
<th>Quadrangle Name</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
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### TRS LOCATIONS

<table>
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<tr>
<th>Twp</th>
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<th>SecType</th>
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<td>5</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<td>Minshall/Buffaloville Coal Mbr.</td>
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### COMMENTS

### CITATIONS

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<td>Powell Negative</td>
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<td>Surface Mine Datasheet</td>
<td>701056</td>
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<td>State Mine Inspector Report</td>
<td>999971</td>
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<td>Strip Study Map</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

Explanation of Year Codes:

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

#### MINE NAME HISTORY

<table>
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<th>Mine Name</th>
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<td>Unknown Surface Mine</td>
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#### MINE OWNERSHIP HISTORY

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<tr>
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#### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

#### COUNTIES

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<tr>
<th>Twp</th>
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</thead>
<tbody>
<tr>
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#### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
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<th>Original Correlation</th>
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<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
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<td>-9999</td>
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<td>UNKNOWN</td>
<td>CO-BU NCRDS</td>
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#### NOTES AND COMMENTS

- Re-affects 201448.

---

**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

---

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

**201450**

**Surface**

### MINE NAME HISTORY

<table>
<thead>
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### MINE OWNERSHIP HISTORY

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<tr>
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<td>1971</td>
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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: Drag/Shovel
- **Transportation Type**: Railroad/Truck
- **Preparation Method**: Screened

### COUNTIES

<table>
<thead>
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<tr>
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<th>Original Correlation</th>
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<td>Fmmr</td>
<td>CO-BU HCH</td>
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### COMMENTS

**NOTES AND COMMENTS**

This mine has multiple pits throughout Spencer County.

Re-affects 201428 & 202204

**CITATIONS**

<table>
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<th>Abbreviated Citation</th>
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<td>Surface Mine Datasheet</td>
<td>701039</td>
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<tr>
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<td>Surface Mine Datasheet</td>
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<td>999988</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
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### MINE OWNERSHIP HISTORY

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</thead>
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<tr>
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<td>1945</td>
<td>1947</td>
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### OPERATIONS

<table>
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<tr>
<td>Removal Equipment</td>
<td>UNKNOWN</td>
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<tr>
<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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### COUNTIES

<table>
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<tr>
<td>Spencer</td>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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### TRS LOCATIONS

<table>
<thead>
<tr>
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<th>DR</th>
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<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
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<td>6</td>
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<td>5</td>
<td>W</td>
<td>Sec. 3</td>
<td>SW</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tr>
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<td>UNKNOWN</td>
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### COMMENTS

Not mined on 1940 aerial photo; shown as mined on 1950 aerial photo.

### CITATIONS

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<thead>
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<td>Aerial Photo, 1940</td>
<td>999967</td>
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<td>Strip Study Map</td>
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Indiana Geological Survey
Indiana University
Friday, July 02, 2010

Explanation of Year Codes:
7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
# COAL MINE INFORMATION SYSTEM

## Mine/Pit Data Sheet

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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<tbody>
<tr>
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### MINE OWNERSHIP HISTORY

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<tr>
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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
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<tr>
<td>Spencer</td>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
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### TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
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<th>Quarters</th>
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<tbody>
<tr>
<td>6</td>
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<td>W</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
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<td>-9999</td>
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</tbody>
</table>

### COMMENTS

- **Abbreviated Citation**: Internal No.
- **Digital**: No
- **Surface Mine Datasheet**: 701060
- **Strip Study Map**: 999988

---

**Indiana Geological Survey**

Indiana University

Friday, July 02, 2010

---

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
# COAL MINE INFORMATION SYSTEM

## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
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<table>
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### Mine Ownership History

<table>
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### Operations

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<td>Preparation Method</td>
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### Counties

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### Quadrangles

<table>
<thead>
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<tr>
<td>Santa Claus</td>
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### TRS Locations

<table>
<thead>
<tr>
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<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
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### Coal Geology

<table>
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<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-BU NCRDS</td>
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### Comments

**NOTES AND COMMENTS**

- Re-affects 201443.
- Not present on 1960 USGS topo quad; shown as mined on 1974 aerial photo. Considerable vegetation on 1974 photo.

### Citations

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**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

---

*Indiana Geological Survey*

*Indiana University*

Friday, July 02, 2010
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

**201454**

### Mine Name History

<table>
<thead>
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### Quadrangles

<table>
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<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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### Twp DR Rng Sec SecType Sec Quarters

| 6 | S | 5 | W | Sec. | 3 | SW |

### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
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### Comments

**NOTES AND COMMENTS**

Re-affects 201451.

### Citations

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<td>Strip Study Map</td>
<td>999988</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

**Mine/Pit Data Sheet**

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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### START DATE

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### MINE OWNERSHIP HISTORY

<table>
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### OPERATIONS

<table>
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<td>Removal Equipment</td>
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<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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### COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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### TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
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<tbody>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<td>UNKNOWN</td>
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</tbody>
</table>

### COMMENTS

**NOTES AND COMMENTS**
Not mined on 1940 aerial photo; shown as mined on 1950 aerial photo.

### CITATIONS

<table>
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<td>Aerial Photo, 1940</td>
<td>999967</td>
<td>No</td>
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**Indiana Geological Survey**  
**Indiana University**  
Friday, July 02, 2010
### COAL MINE INFORMATION SYSTEM

#### Mine/Pit Data Sheet

<table>
<thead>
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<th>MINENUMB</th>
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#### COAL MINE INFORMATION SYSTEM

**Mine Name History**

<table>
<thead>
<tr>
<th>Mine Name</th>
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</thead>
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<tr>
<td>Unknown Surface Mine</td>
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**Start Date**

<table>
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<tr>
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</thead>
</table>

**End Date**

<table>
<thead>
<tr>
<th>MIN</th>
<th>Start</th>
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</thead>
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<tr>
<td>1964</td>
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#### County Name

<table>
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<tr>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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</tbody>
</table>

#### Operations

**Coal Removal Method**

UNKNOWN

**Removal Equipment**

UNKNOWN

**Transportation Type**

UNKNOWN

**Preparation Method**

UNKNOWN

#### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
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</table>

#### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec.</td>
<td>5</td>
<td>SW</td>
</tr>
</tbody>
</table>

#### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-BU NCRDS</td>
</tr>
</tbody>
</table>

#### Comments

Not present on 1960 USGS topo quad, but shown as mined on 1974 aerial photo.

#### Citations

<table>
<thead>
<tr>
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<th>Digital</th>
</tr>
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<tr>
<td>Surface Mine Datasheet</td>
<td>700626</td>
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</tr>
<tr>
<td>Aerial Photo, 1974</td>
<td>999956</td>
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Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

**Mine/Pit Data Sheet**

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
<td>1976</td>
<td>1976</td>
</tr>
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### START DATE

<table>
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### END DATE

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</thead>
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<td>1976</td>
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### MINE OWNERSHIP HISTORY

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</thead>
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<tr>
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<td>1976</td>
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### OPERATIONS

<p>| | |</p>
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<th></th>
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<tbody>
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<tr>
<td>Removal Equipment</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Transportation Type</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Preparation Method</td>
<td>UNKNOWN</td>
</tr>
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### COUNTIES

<table>
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<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
</tbody>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### TRS LOCATIONS

<table>
<thead>
<tr>
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<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<td>5</td>
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<td>SE</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
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<td>CO-MH NCRDS</td>
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### COMMENTS

### CITATIONS

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<td>700980</td>
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<td>Strip Study Map</td>
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<td>Aerial Photo, 1978</td>
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Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

#### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Sibrel #3 Mine</td>
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<td>1981</td>
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#### Start Date

<table>
<thead>
<tr>
<th>MIN</th>
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<th>MAX</th>
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#### End Date

<table>
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<th>MAX</th>
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#### Mine Ownership History

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Cissna, Bruce, Co.</td>
<td>1981</td>
<td>1981</td>
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#### Operations

<table>
<thead>
<tr>
<th>Coal Removal Method</th>
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<tbody>
<tr>
<td>Removal Equipment</td>
<td>UNKNOWN</td>
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<tr>
<td>Transportation Type</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Preparation Method</td>
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#### Counties

<table>
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<th>County Name</th>
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<tr>
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#### Quadrangles

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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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#### TRS Locations

<table>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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#### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
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<tr>
<td>Surface Mine Datasheet</td>
<td>700652</td>
<td>No</td>
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</table>

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Indiana Geological Survey
Indiana University
Friday, July 02, 2010

Explanation of Year Codes:

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

#### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</tr>
</thead>
<tbody>
<tr>
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#### START DATE

<table>
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<td>1979</td>
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</tbody>
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#### END DATE

<table>
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<tr>
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</thead>
<tbody>
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<td>1980</td>
<td>1980</td>
<td>1980</td>
</tr>
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#### MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
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</thead>
<tbody>
<tr>
<td>Delta Mining Co.</td>
<td>1979</td>
<td>1980</td>
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#### OPERATIONS

<table>
<thead>
<tr>
<th>Coal Removal Method</th>
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<tbody>
<tr>
<td>Removal Equipment</td>
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<tr>
<td>Transportation Type</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Preparation Method</td>
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</tbody>
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#### COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<th>Primary</th>
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</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
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#### QUADRANGLES

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
<tr>
<td>5</td>
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<td>5</td>
<td>W</td>
<td>Sec. 8</td>
<td>SW</td>
<td>SE</td>
</tr>
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#### TRS LOCATIONS

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
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<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
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<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-BU NCRDS</td>
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#### COAL GEOLOGY

#### COMMENTS

#### CITATIONS

<table>
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<tbody>
<tr>
<td>Data Card</td>
<td>5987</td>
<td>No</td>
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<tr>
<td>Interim Permit</td>
<td>10132</td>
<td>No</td>
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<tr>
<td>Company Mine Map Photo</td>
<td>600076</td>
<td>Yes</td>
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<tr>
<td>Surface Mine Datasheet</td>
<td>700653</td>
<td>No</td>
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Indiana Geological Survey
Indiana University
Friday, July 02, 2010

Explanation of Year Codes:
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## Mine/Pit Data Sheet

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
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<tr>
<td>Criss Mine</td>
<td>1979</td>
<td>1980</td>
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| MINE OWNERSHIP HISTORY
<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foertsch Construction Co, Inc.</td>
<td>1979</td>
<td>1980</td>
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### START DATE

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<tr>
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<td>1979</td>
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### END DATE

<table>
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<th>MIN</th>
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<th>MAX</th>
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</thead>
<tbody>
<tr>
<td>1980</td>
<td>1980</td>
<td>1980</td>
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### OPERATIONS

| Coal Removal Method | UNKNOWN |
| Removal Equipment   | Drag/Drill/Rip |
| Transportation Type | UNKNOWN |
| Preparation Method  | Crushed |

### COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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### TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
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<th>SecType</th>
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### COAL GEOLOGY

<table>
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<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>-9999</td>
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<td>UNKNOWN</td>
<td>CO-MH NCRDS</td>
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### COMMENTS

### CITATIONS

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<tr>
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<tr>
<td>Data Card</td>
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<tr>
<td>Interim Permit</td>
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<td>Company Mine Map Photo</td>
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<td>Surface Mine Datasheet</td>
<td>700671</td>
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Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010

**Explanation of Year Codes:**  
7007 Mine is currently in operation  
1001 Minimum date is unknown  
9009 Maximum date is unknown
# COAL MINE INFORMATION SYSTEM

## Mine/Pit Data Sheet

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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<tbody>
<tr>
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### MINE OWNERSHIP HISTORY

<table>
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<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
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</thead>
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### START DATE

<table>
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<tr>
<th>MIN</th>
<th>Start</th>
<th>MAX</th>
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### END DATE

<table>
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<tr>
<th>MIN</th>
<th>Start</th>
<th>MAX</th>
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### QUADRANGLES

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<th>Quadrangle Name</th>
<th>Primary</th>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
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<td>Santa Claus</td>
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### TRS LOCATIONS

<table>
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<th>Primary</th>
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<th>Primary</th>
<th>Twp</th>
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</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
<td>Santa Claus</td>
<td>Yes</td>
<td>6</td>
<td>S</td>
<td>5</td>
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<td>Sec.</td>
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<td>NW</td>
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### COUNTIES

### OPERATIONS

<table>
<thead>
<tr>
<th>Coal Removal Method</th>
<th>UNKNOWN</th>
</tr>
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<tbody>
<tr>
<td>Removal Equipment</td>
<td>UNKNOWN</td>
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<tr>
<td>Transportation Type</td>
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</tr>
<tr>
<td>Preparation Method</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
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<td>-9999</td>
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<td>UNKNOWN</td>
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### COMMENTS

NOTES AND COMMENTS

- Re-affects 201642 and 203208.

CITATIONS

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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

#### MINENUMB

**201463**

**Surface**

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start (MIN)</th>
<th>End (MAX)</th>
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<tbody>
<tr>
<td>Roos-Lovell Mine</td>
<td>1979</td>
<td>1981</td>
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### START DATE

<table>
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<tr>
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<tr>
<td>1979</td>
<td>1979</td>
<td>1979</td>
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### END DATE

<table>
<thead>
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</table>

### MINE OWNERSHIP HISTORY

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>Foertsch Construction Co, Inc.</td>
<td>1979</td>
<td>1981</td>
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</tbody>
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### OPERATIONS

<table>
<thead>
<tr>
<th>Coal Removal Method</th>
<th>UNKNOWN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Removal Equipment</td>
<td>Drag/Drill/Dozer</td>
</tr>
<tr>
<td>Transportation Type</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Preparation Method</td>
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### COUNTIES

<table>
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<tr>
<th>County Name</th>
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<tr>
<td>Spencer</td>
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</tr>
</tbody>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
<tr>
<td>6</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec.</td>
<td>1</td>
<td>NE</td>
</tr>
</tbody>
</table>

### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-MH NCRDS</td>
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### COMMENTS

Re-affects 201472, 201642 and 203208.

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<td>10179</td>
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<td>600118</td>
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<tr>
<td>Surface Mine Datasheet</td>
<td>700674</td>
<td>No</td>
</tr>
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**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

Indiana Geological Survey
Indiana University
Friday, July 02, 2010
# COAL MINE INFORMATION SYSTEM

**Mine/Pit Data Sheet**

## Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patmore Mine</td>
<td>1981</td>
<td>1988</td>
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## Start Date

<table>
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<th>MAX</th>
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</thead>
</table>

## End Date

<table>
<thead>
<tr>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
</tr>
</thead>
</table>

## Mine Ownership History

<table>
<thead>
<tr>
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<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Green Ridge Coal, Inc.</td>
<td>1981</td>
<td>1988</td>
</tr>
<tr>
<td>Foertsch Construction Co, Inc.</td>
<td>1001</td>
<td>9009</td>
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## Operations

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Removal Equipment</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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## Counties

<table>
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<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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</table>

## Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
</table>

## TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>Sec</th>
<th>SecType</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec.</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>SE</td>
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</table>

## Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
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<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
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<td>-9999</td>
<td>UNKNOWN</td>
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<td>CO-BU NCRDS</td>
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</table>

## Comments

NOTES AND COMMENTS

DOR Permit Number S-00047.

Re-affects 201422, 201434, 201435.

Mining was done from 1981 to 1986. Reclamation occurred until 1988.

## Citations

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<tr>
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<td>Company Mine Map</td>
<td>610181</td>
<td>Yes</td>
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<td>Surface Mine Datasheet</td>
<td>700676</td>
<td>No</td>
</tr>
<tr>
<td>B200 Report of Affected Area</td>
<td>999975</td>
<td>No</td>
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</tbody>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

---

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### COAL MINE INFORMATION SYSTEM

#### Mine/Pit Data Sheet

**COAL MINE INFORMATION SYSTEM**

#### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Held Mine</td>
<td>1982</td>
<td>1983</td>
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</tbody>
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#### Start Date

<table>
<thead>
<tr>
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<th>Start</th>
<th>MAX</th>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
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#### End Date

<table>
<thead>
<tr>
<th>MIN</th>
<th>Start</th>
<th>MAX</th>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
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</table>

#### Mine Ownership History

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marigold Mining, Inc.</td>
<td>1982</td>
<td>1983</td>
</tr>
</tbody>
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#### Operations

- **Coal Remove Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

#### Counties

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<td>W</td>
<td>27</td>
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#### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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#### Comments

- **Notes and Comments**
  - DOR Permit Number S-00076. Re-affects 201493.

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<tr>
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<td>Surface Mine Datasheet</td>
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</tr>
<tr>
<td>B200 Report of Affected Area</td>
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<td>No</td>
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**Explanation of Year Codes**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

---

**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010
**COAL MINE INFORMATION SYSTEM**

**Mine/Pit Data Sheet**

**Surface**

**Mine Name History**

<table>
<thead>
<tr>
<th>Mine Name</th>
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<tr>
<td>Mullen #3 Mine</td>
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**Start Date**

<table>
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<tr>
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**End Date**

<table>
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<td>1982</td>
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**Mine Ownership History**

<table>
<thead>
<tr>
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<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marigold Mining, Inc.</td>
<td>1981</td>
<td>1982</td>
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**Operations**

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

**Counties**

<table>
<thead>
<tr>
<th>County Name</th>
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<tbody>
<tr>
<td>Spencer</td>
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**Quadrangles**

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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</tbody>
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**TRS Locations**

<table>
<thead>
<tr>
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<th>Rng</th>
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<th>Quarters</th>
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**Coal Geology**

<table>
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<tr>
<th>Coal Seam/Member</th>
<th>Depth(ft)</th>
<th>Thickness(ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
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**Comments**

**Citations**

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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
# COAL MINE INFORMATION SYSTEM

## Mine/Pit Data Sheet

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
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</thead>
<tbody>
<tr>
<td>Ravens #1 Mine</td>
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<td>1983</td>
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</table>

### START DATE

<table>
<thead>
<tr>
<th>MIN</th>
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<th>MAX</th>
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</table>

### END DATE

<table>
<thead>
<tr>
<th>MIN</th>
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<th>MAX</th>
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### MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Marigold Mining, Inc.</td>
<td>1981</td>
<td>1983</td>
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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### COUNTIES

<table>
<thead>
<tr>
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<tr>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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### TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
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### COAL GEOLOGY

<table>
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<tr>
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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
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<td>CO-MH NCRDS</td>
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### COMMENTS

- **NOTES AND COMMENTS**: Re-affects 201491 and 201489

### CITATIONS

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<td>Company Mine Map Photo</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

---

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
**COAL MINE INFORMATION SYSTEM**

**Mine/Pit Data Sheet**

**MINENUMB**

**201469**

**Surface**

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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<tbody>
<tr>
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### START DATE

<table>
<thead>
<tr>
<th>MIN</th>
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### END DATE

<table>
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<th>End</th>
<th>MAX</th>
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</thead>
<tbody>
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### MINE OWNERSHIP HISTORY

<table>
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<tbody>
<tr>
<td>Marigold Mining, Inc.</td>
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<td>1982</td>
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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
</tr>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
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### TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
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### COAL GEOLOGY

<table>
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<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
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<td>UNKNOWN</td>
<td>CO-MH NCRDS</td>
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### COMMENTS

### CITATIONS

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<thead>
<tr>
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<th>Internal No.</th>
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<tbody>
<tr>
<td>Company Mine Map Photo</td>
<td>600187</td>
<td>Yes</td>
</tr>
<tr>
<td>Surface Mine Datasheet</td>
<td>700683</td>
<td>No</td>
</tr>
<tr>
<td>Surface Mine Datasheet</td>
<td>701013</td>
<td>No</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### Mine/Pit Data Sheet

#### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Gelarden #1 Mine</td>
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#### START DATE

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<th>MAX</th>
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#### END DATE

<table>
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<th>Min</th>
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<th>MAX</th>
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<tbody>
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#### MINE OWNERSHIP HISTORY

<table>
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<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Green Ridge Coal, Inc.</td>
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<td>Mulzer Crushed Stone, Co.</td>
<td>1981</td>
<td>1981</td>
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#### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

#### COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
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#### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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#### TRS LOCATIONS

<table>
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<tr>
<th>Twp</th>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
<tr>
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<td>S</td>
<td>5 W</td>
<td></td>
<td>Sec.</td>
<td>36</td>
<td>NW SW</td>
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#### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
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<td>CO-MH NCRDS</td>
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#### CITATIONS

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<td>Company Mine Map Photo</td>
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**Indiana Geological Survey**  
**Indiana University**  
**Friday, July 02, 2010**

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### Mine/Pit Data Sheet

#### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
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</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
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<td>1953</td>
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#### Start Date

<table>
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<td>1953</td>
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<td>1954</td>
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#### Mine Ownership History

<table>
<thead>
<tr>
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<th>End</th>
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</thead>
<tbody>
<tr>
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#### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

#### Counties

<table>
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<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
</tbody>
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#### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>S</td>
<td>5</td>
<td>W</td>
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<td>NE</td>
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#### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
<td>Brazil Fm.</td>
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#### Comments

Not mined on 1950 aerial photo; shown as mined on 1955 aerial photo.

#### Citations

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<td>Aerial Photo, 1950</td>
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<td>Aerial Photo, 1955</td>
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<tr>
<td>Strip Study Map</td>
<td>9999988</td>
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# COAL MINE INFORMATION SYSTEM

## Mine/Pit Data Sheet

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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<tbody>
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### MINE OWNERSHIP HISTORY

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</thead>
<tbody>
<tr>
<td>Ohio Valley Co., Inc.</td>
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### COUNTIES

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### QUADRANGLES

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<tbody>
<tr>
<td>Santa Claus</td>
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### TRS LOCATIONS

<table>
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<tr>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
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<td>CO-MH</td>
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### COMMENTS

### CITATIONS

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<tr>
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<td>Interim Permit</td>
<td>10302</td>
<td>No</td>
</tr>
<tr>
<td>Surface Mine Datasheet</td>
<td>700976</td>
<td>No</td>
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**Indiana Geological Survey**
**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
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<td>1977</td>
<td>1977</td>
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<td>1978</td>
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### Mine Ownership History

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Foertsch Construction Co, Inc.</td>
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<tr>
<td>Removal Equipment</td>
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<tr>
<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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### Counties

<table>
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<tr>
<th>County Name</th>
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<tbody>
<tr>
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### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
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### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
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<td>5</td>
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<td>SE</td>
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### Coal Geology

<table>
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<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
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<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
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<td>-9999</td>
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<td>CO-MH NCRDS</td>
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### Comments

#### NOTES AND COMMENTS

Re-affects 203200.

### Citations

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Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010  

Explanation of Year Codes:  
7007 Mine is currently in operation  
1001 Minimum date is unknown  
9009 Maximum date is unknown
## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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<td>1953</td>
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## START DATE

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<td>1953</td>
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## MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>UNKNOWN</td>
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## OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

## COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
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<td>Yes</td>
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## QUADRANGLES

<table>
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<tbody>
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<td>Yes</td>
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## TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
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<th>DR</th>
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<td>W</td>
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<td>36</td>
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## COAL GEOLOGY

<table>
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<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
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<th>Original Correlation</th>
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<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
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<td>-9999</td>
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<td>UNKNOWN</td>
<td>CO-MH NCRDS</td>
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</tbody>
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## COMMENTS

**NOTES AND COMMENTS**

Not mined on 1950 aerial photo; shown as mined on 1950 aerial photo.

## CITATIONS

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<tr>
<td>Aerial Photo, 1955</td>
<td>9999932</td>
<td>No</td>
</tr>
<tr>
<td>Strip Study Map</td>
<td>9999988</td>
<td>Yes</td>
</tr>
</tbody>
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**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

**MINENUMB**: 201479

**Surface**

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
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</thead>
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<tr>
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<td>1976</td>
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### START DATE

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<tr>
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### MINE OWNERSHIP HISTORY

<table>
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<th>Start</th>
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<tr>
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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### COUNTIES

<table>
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<th>County Name</th>
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<tbody>
<tr>
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<tbody>
<tr>
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<td>Yes</td>
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</tbody>
</table>

### TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
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<td>36</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
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<td>UNKNOWN</td>
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<td>Strip Study Map</td>
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**Indiana Geological Survey**  
**Indiana University**  
Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### Mine/Pit Data Sheet

#### Mine Name History

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Ferguson Mine (2)</td>
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<th>MAX</th>
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</thead>
<tbody>
<tr>
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#### Mine Ownership History

<table>
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<td>Foertsch Construction Co, Inc.</td>
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#### Operations

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<tr>
<td>Removal Equipment</td>
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<td>Transportation Type</td>
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#### Counties

<table>
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<tr>
<td>Spencer</td>
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#### Quadrangles

<table>
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<tbody>
<tr>
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</tr>
</tbody>
</table>

#### TRS Locations

<table>
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<tr>
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<th>Rng</th>
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<th>SecType</th>
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<th>Quarters</th>
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<td>5</td>
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<td>SE</td>
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</table>

#### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tr>
<td>Interim Permit</td>
<td>10182</td>
<td>Yes</td>
</tr>
<tr>
<td>Surface Mine Datasheet</td>
<td>700981</td>
<td>No</td>
</tr>
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Indiana Geological Survey
Indiana University
Friday, July 02, 2010

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
**COAL MINE INFORMATION SYSTEM**

**Mine/Pit Data Sheet**

<table>
<thead>
<tr>
<th><strong>COAL MINE INFORMATION SYSTEM</strong></th>
<th><strong>MINE NAME HISTORY</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mine Name</strong></td>
<td></td>
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<tr>
<td>Griepenstroh Mine</td>
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**START DATE**

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**END DATE**

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**MINE OWNERSHIP HISTORY**

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<tr>
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</thead>
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**OPERATIONS**

<table>
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<tbody>
<tr>
<td><strong>Removal Equipment</strong></td>
<td>Drag/Back hoe/Loader</td>
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<tr>
<td><strong>Transportation Type</strong></td>
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<td><strong>Preparation Method</strong></td>
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**COUNTIES**

<table>
<thead>
<tr>
<th><strong>County Name</strong></th>
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<tr>
<td>Spencer</td>
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**QUADRANGLES**

<table>
<thead>
<tr>
<th><strong>Quadrangle Name</strong></th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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**TRS LOCATIONS**

<table>
<thead>
<tr>
<th><strong>Twp</strong></th>
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<th><strong>Rng</strong></th>
<th><strong>DR</strong></th>
<th><strong>SecType</strong></th>
<th><strong>Sec</strong></th>
<th><strong>Quarters</strong></th>
</tr>
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<tbody>
<tr>
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<td>5</td>
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<td>Sec.</td>
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<td>SW</td>
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**COAL GEOLOGY**

<table>
<thead>
<tr>
<th><strong>Coal Seam/Member</strong></th>
<th><strong>Depth (ft)</strong></th>
<th><strong>Thickness (ft)</strong></th>
<th><strong>Roof Lithology</strong></th>
<th><strong>Floor Lithology</strong></th>
<th><strong>Original Correlation</strong></th>
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<tbody>
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**COMMENTS**

**CITATIONS**

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<tr>
<td>Surface Mine Datasheet</td>
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</table>

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM
### Mine/Pit Data Sheet

**MINENUMB:** 201483
**Surface**

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
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### End Date

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<tbody>
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<td>1978</td>
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### Mine Ownership History

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohio Valley Co., Inc.</td>
<td>1977</td>
<td>1978</td>
</tr>
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### Operations

- **Coal Removal Method:** UNKNOWN
- **Removal Equipment:** UNKNOWN
- **Transportation Type:** UNKNOWN
- **Preparation Method:** UNKNOWN

### Counties

<table>
<thead>
<tr>
<th>County Name</th>
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<tbody>
<tr>
<td>Spencer</td>
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</tr>
</tbody>
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### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
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<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
<tr>
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<td>5</td>
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### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
# COAL MINE INFORMATION SYSTEM
## Mine/Pit Data Sheet

### Mine/Ownership History

<table>
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<table>
<thead>
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<tr>
<td>Ohio Valley Co., Inc.</td>
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### Operations

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<tbody>
<tr>
<td>Removal Equipment</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Transportation Type</td>
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<td>Preparation Method</td>
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### Counties

<table>
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<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
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### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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### TRS Locations

<table>
<thead>
<tr>
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<th>SecType</th>
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<th>Quarters</th>
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### Coal Geology

<table>
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<tr>
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<th>Thickness (ft)</th>
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<th>Original Correlation</th>
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Explanation of Year Codes:
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
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## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
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### Start Date

<table>
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<tr>
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### Mine Ownership History

<table>
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### Operations

- Coal Removal Method: UNKNOWN
- Removal Equipment: UNKNOWN
- Transportation Type: UNKNOWN
- Preparation Method: UNKNOWN

### Counties

- County Name: Spencer  
  - Primary: Yes

### Quadrangles

- Quadrangle Name: Santa Claus  
  - Primary: Yes

### TRS Locations

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<tr>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
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### Coal Geology

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<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tr>
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<td>UNKNOWN</td>
<td>CO-MH NCRDS</td>
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### Comments

**NOTES AND COMMENTS**

Not mined on 1950 aerial photo; shown as mined on 1955 aerial photo.

### Citations

<table>
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<tr>
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<tr>
<td>Aerial Photo, 1955</td>
<td>999932</td>
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**Indiana Geological Survey**

**Indiana University**

**Friday, July 02, 2010**

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
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- 9009 Maximum date is unknown
## Mine/Pit Data Sheet

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
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### MINE OWNERSHIP HISTORY

<table>
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### COUNTIES

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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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### QUADRANGLES

<table>
<thead>
<tr>
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<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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### TRS LOCATIONS

<table>
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<tr>
<th>Twp</th>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
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</tr>
<tr>
<td>Removal Equipment</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Transportation Type</td>
<td>UNKNOWN</td>
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<tr>
<td>Preparation Method</td>
<td>UNKNOWN</td>
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### MINE GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
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<td>CO-MH PCM</td>
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### COMMENTS

**NOTES AND COMMENTS**

Not mined on 1940 aerial photo, mining completed on 1950 aerial photo.

### CITATIONS

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<td>Aerial Photo, 1940</td>
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<tr>
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**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010
## Mine/Pit Data Sheet

### COAL MINE INFORMATION SYSTEM

**Mine Name History**

<table>
<thead>
<tr>
<th>Mine Name</th>
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</thead>
<tbody>
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**Start Date**

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<td>1947</td>
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**End Date**

<table>
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<td>1947</td>
<td>1949</td>
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### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### Counties

<table>
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### Quadrangles

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<tbody>
<tr>
<td>Santa Claus</td>
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</tr>
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### TRS Locations

<table>
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<tr>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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</thead>
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<td>5</td>
<td>W</td>
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### Coal Geology

<table>
<thead>
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<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
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<tbody>
<tr>
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### Comments

**Notes and Comments**

Not mined on 1940 aerial photo; mining completed on 1950 aerial photo.

### Citations

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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
**COAL MINE INFORMATION SYSTEM**

*Mine/Pit Data Sheet*

---

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kelco #2 Mine</td>
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### START DATE

<table>
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</thead>
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</thead>
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<td>1978</td>
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### MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
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</thead>
<tbody>
<tr>
<td>Kelco, Inc.</td>
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<td>1978</td>
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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

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### COUNTIES

- **County Name**: Spencer
- **Primary**: Yes

### QUADRANGLES

- **Quadrangle Name**: Santa Claus
- **Primary**: Yes

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<tr>
<th>Twp</th>
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### TRS LOCATIONS

<table>
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<th>Primary</th>
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<th>Sec</th>
<th>Quarters</th>
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### COAL GEOLOGY

<table>
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<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
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<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tr>
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### COMMENTS

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### CITATIONS

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_Indiana Geological Survey_

_Indiana University_

_Friday, July 02, 2010_

**Explanation of Year Codes:**

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<th>Description</th>
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<td>Mine is currently in operation</td>
</tr>
<tr>
<td>1001</td>
<td>Minimum date is unknown</td>
</tr>
<tr>
<td>9009</td>
<td>Maximum date is unknown</td>
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# COAL MINE INFORMATION SYSTEM

**Mine/Pit Data Sheet**

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<tr>
<th>Mine Name History</th>
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<th>End</th>
<th>Start</th>
<th>End</th>
<th>MAX</th>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
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<td></td>
<td></td>
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<table>
<thead>
<tr>
<th>MINE OWNERSHIP HISTORY</th>
<th>Start</th>
<th>End</th>
<th>Start</th>
<th>End</th>
<th>MAX</th>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
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<tbody>
<tr>
<td>Spencer Coal Corp</td>
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<td>1979</td>
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<th>COUNTIES</th>
<th>QUADRANGLES</th>
<th>TRS LOCATIONS</th>
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<td>County Name</td>
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<td>Coal Seam/Member</td>
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<td>Mariah Hill Coal Mbr.</td>
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| COMMENTS |

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<td>Interim Permit</td>
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<td>Surface Mine Datasheet</td>
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<tr>
<td>Surface Mine Datasheet</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### Mine/Pit Data Sheet

#### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
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</thead>
<tbody>
<tr>
<td>Kelco #2 Mine</td>
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<td>1979</td>
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#### Start Date

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#### End Date

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<td>1979</td>
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#### Mine Ownership History

<table>
<thead>
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<th>Company Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Kelco of Indiana, Inc.</td>
<td>1978</td>
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#### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: Dozer/Loader
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

#### Counties

<table>
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#### Quadrangles

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<tbody>
<tr>
<td>Santa Claus</td>
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#### TRS Locations

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<tr>
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<th>SecType</th>
<th>Sec</th>
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#### Coal Geology

<table>
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<th>Thickness (ft)</th>
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<th>Original Correlation</th>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010
# COAL MINE INFORMATION SYSTEM

## Mine/Pit Data Sheet

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
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### END DATE

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<td>1978</td>
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### MINE OWNERSHIP HISTORY

<table>
<thead>
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<tbody>
<tr>
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### OPERATIONS

<table>
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<tbody>
<tr>
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### COUNTIES

<table>
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<tbody>
<tr>
<td>Spencer</td>
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### QUADRANGLES

<table>
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<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
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</tr>
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### TRS LOCATIONS

<table>
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<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
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### COAL GEOLOGY

<table>
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<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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### COMMENTS

### CITATIONS

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Indiana Geological Survey
Indiana University
Friday, July 02, 2010

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
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<tr>
<td>Thomas Mine</td>
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<td>1977</td>
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## START DATE

<table>
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## END DATE

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<td>1977</td>
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<td>1977</td>
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## MINE OWNERSHIP HISTORY

<table>
<thead>
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## OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: Truck
- **Preparation Method**: Crushed/Mine run

## COUNTIES

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<td>Spencer</td>
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## QUADRANGLES

<table>
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<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
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## TRS LOCATIONS

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<th>Twp</th>
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<td>5</td>
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## COAL GEOLOGY

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<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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## COAL MINE INFORMATION SYSTEM

**Mine/Pit Data Sheet**

### MINE NAME HISTORY

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<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
<td>1970</td>
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<table>
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<td>1961</td>
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<td>1971</td>
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### END DATE

<table>
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<td>1965</td>
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### MINE OWNERSHIP HISTORY

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<tr>
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### OPERATIONS

<table>
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<tr>
<td>Removal Equipment</td>
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<tr>
<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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### QUADRANGLES

<table>
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<th>Quadrangle Name</th>
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<tr>
<td>Santa Claus</td>
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### TRS LOCATIONS

<table>
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<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
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<th>Sec</th>
<th>Quarters</th>
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### COAL GEOLOGY

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<tr>
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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
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<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
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<td>UNKNOWN</td>
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<td>CO-BU NCRDS</td>
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### COMMENTS

**NOTES AND COMMENTS**

Not present on 1960 USGS topo quad; shown as mined on 1974 aerial photo.

**CITATIONS**

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<thead>
<tr>
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<th>Digital</th>
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</thead>
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<tr>
<td>Surface Mine Datasheet</td>
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</tr>
<tr>
<td>Aerial Photo, 1974</td>
<td>999956</td>
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</tr>
<tr>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
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</thead>
<tbody>
<tr>
<td>Mulzer Brothers Mine</td>
<td>1946</td>
<td>1959</td>
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## PERIODS

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## MINE OWNERSHIP HISTORY

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<tr>
<td>Mulzer Bros. Co.</td>
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<td>1959</td>
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## OPERATIONS

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<table>
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<th>Removal Equipment</th>
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<tr>
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<table>
<thead>
<tr>
<th>Transportation Type</th>
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<tbody>
<tr>
<td>Railroad/Truck</td>
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<table>
<thead>
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<th>Preparation Method</th>
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<tr>
<td>Screened</td>
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## COUNTRIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
</tbody>
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## QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
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## TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec. 21</td>
<td>NE</td>
<td></td>
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## COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<td>CO-BU? CEW</td>
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## COMMENTS

## CITATIONS

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<td>Surface Mine Datasheet</td>
<td>700999</td>
<td>No</td>
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<tr>
<td>Surface Mine Datasheet</td>
<td>703132</td>
<td>No</td>
</tr>
<tr>
<td>Strip Study Map</td>
<td>999988</td>
<td>Yes</td>
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## Mine/Pit Data Sheet

### MINE NAME HISTORY

<table>
<thead>
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<th>Mine Name</th>
<th>Start</th>
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<td>Mullen #2 Mine</td>
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### MINE OWNERSHIP HISTORY

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<td>Mullen, Joseph E., Co.</td>
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### COUNTIES

<table>
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<tbody>
<tr>
<td>Spencer</td>
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### QUADRANGLES

<table>
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<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
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### TRS LOCATIONS

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<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
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<tr>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
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<td>Mariah Hill Coal Mbr.</td>
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<tr>
<td>Removal Equipment</td>
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<td>Preparation Method</td>
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### CITATIONS

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Indiana Geological Survey
Indiana University
Friday, July 02, 2010

Explanation of Year Codes:
7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
## Mine/Pit Data Sheet

### Start Date

<table>
<thead>
<tr>
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<td>201500</td>
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### Quadrangles

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### Coal Geology

<table>
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<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
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<th>Floor Lithology</th>
<th>Original Correlation</th>
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### Comments

Not mined on 1940 aerial photo; shown as mined on 1950 aerial photo.

### Citations

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<td>Aerial Photo, 1940</td>
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Indiana Geological Survey
Indiana University
Friday, July 02, 2010

Explanation of Year Codes:
7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

**Mine/Pit Data Sheet**

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
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<tr>
<td>Unknown Surface Mine</td>
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### MINE OWNERSHIP HISTORY

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<td></td>
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### END DATE

<table>
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<td>1953</td>
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<td>1959</td>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>County Name</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
<td>Santa Claus</td>
<td>Yes</td>
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<table>
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<tr>
<th>Twp</th>
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### COAL GEOLOGY

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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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### NOTES AND COMMENTS

*not mined on 1950 aerial photo; shown as mined on 1960 topo quad.*

### CITATIONS

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<td>Aerial Photo, 1950</td>
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<td>Strip Study Map</td>
<td>9999988</td>
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**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

---

**Indiana Geological Survey**

**Indiana University**

**Friday, July 02, 2010**
## Mine/Pit Data Sheet

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</tr>
</thead>
<tbody>
<tr>
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### START DATE

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<tr>
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</thead>
<tbody>
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<td>1953</td>
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### END DATE

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### MINE OWNERSHIP HISTORY

<table>
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<tr>
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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### COUNTIES

<table>
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<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### TRS LOCATIONS

<table>
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<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
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<td>5</td>
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<td>Sec.</td>
<td>9</td>
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### COAL GEOLOGY

- **Coal Seam/Member**: Minshall/Buffaloville Coal Mbr.
- **Depth (ft)**: -9999
- **Thickness (ft)**: -9999
- **Roof Lithology**: UNKNOWN
- **Floor Lithology**: UNKNOWN
- **Original Correlation**: CO-BU PCM

### COMMENTS

**NOTES AND COMMENTS**

- Not mined on 1950 aerial photo; shown as mined on 1954 aerial photo.

**CITATIONS**

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<tr>
<th>Abbreviated Citation</th>
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<th>Digital</th>
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<tr>
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<tr>
<td>Aerial Photo, 1950</td>
<td>999931</td>
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</tr>
<tr>
<td>Aerial Photo, 1954</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
**COAL MINE INFORMATION SYSTEM**

Mine/Pit Data Sheet

**MINENUMB**

Surface

**MINE NAME HISTORY**

<table>
<thead>
<tr>
<th>Mine Name</th>
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</tr>
</thead>
<tbody>
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**START DATE**

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**MINE OWNERSHIP HISTORY**

<table>
<thead>
<tr>
<th>Company Name</th>
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<th>End</th>
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<tbody>
<tr>
<td>Shelton, Paul, Co.</td>
<td>1979</td>
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**OPERATIONS**

<table>
<thead>
<tr>
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<tr>
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<tr>
<td>Preparation Method</td>
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**COUNTIES**

<table>
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**QUADRANGLES**

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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**TRS LOCATIONS**

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**COAL GEOLOGY**

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<thead>
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<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
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**COMMENTS**

**NOTES AND COMMENTS**

Re-affects 203211 & 201647.

**CITATIONS**

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<td>600287</td>
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**Explanation of Year Codes:**

7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown

Indiana Geological Survey

Indiana University

Friday, July 02, 2010
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

#### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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<tr>
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<td>1977</td>
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#### END DATE

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<th>MIN</th>
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<th>MAX</th>
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#### MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mulzer Crushed Stone, Co.</td>
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<td>1977</td>
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<tr>
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<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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#### COUNTIES

<table>
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#### QUADRANGLES

<table>
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<th>Primary</th>
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<tbody>
<tr>
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#### TRS LOCATIONS

<table>
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<tr>
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#### COAL GEOLOGY

<table>
<thead>
<tr>
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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
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<td>CO-BU WAH</td>
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#### COMMENTS

**NOTES AND COMMENTS**

Re-affects 201403, 201445.

**CITATIONS**

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<tr>
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<td>10279</td>
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<td>Surface Mine Datasheet</td>
<td>701052</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

#### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
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#### MINE OWNERSHIP HISTORY

<table>
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<tr>
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#### Surface

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<tr>
<td>Spencer</td>
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### Quadrangles

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<tr>
<td>Lewisport</td>
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### TRS Locations

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### TRS Locations

### COAL GEOLOGY

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<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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</thead>
<tbody>
<tr>
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<td>CO-MH WAH</td>
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### Comments

### Citations

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Friday, July 02, 2010

Indiana Geological Survey
Indiana University
**Mine/Pit Data Sheet**

**Surface**

**COAL MINE INFORMATION SYSTEM**

**Mine Name History**

<table>
<thead>
<tr>
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**End Date**

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**Mine Ownership History**

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<th>End</th>
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**Operations**

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

**Counties**

<table>
<thead>
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<th>County Name</th>
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**Quadrangles**

<table>
<thead>
<tr>
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**TRS Locations**

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**Coal Geology**

<table>
<thead>
<tr>
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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
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**Comments**

**Notes and Comments**

Re-affects 201507

**Citations**

- **Abbreviated Citation**: Company Mine Map Photo
  - Internal No.: 600106
  - Digital: Yes
- **Surface Mine Datasheet**: 700669
  - Digital: No

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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### MINE NAME HISTORY

<table>
<thead>
<tr>
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</thead>
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### START DATE

<table>
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### END DATE

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### MINE OWNERSHIP HISTORY

<table>
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<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Eagle Rock Mining, Inc.</td>
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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### COUNTIES

<table>
<thead>
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<th>County Name</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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</tbody>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Lewisport</td>
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### TRS LOCATIONS

<table>
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<th>Twp</th>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
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### COAL GEOLOGY

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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<td>CO-BU NCRDS</td>
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### COMMENTS

### CITATIONS

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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

#### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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<tbody>
<tr>
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#### START DATE

MIN | Start | MAX | MIN | End | MAX
---|-------|-----|-----|-----|-----

#### END DATE

#### MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. and S. Coal, Inc.</td>
<td>1977</td>
<td>1978</td>
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</tbody>
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#### START DATE

<table>
<thead>
<tr>
<th>Coal Removal Method</th>
<th>UNKNOWN</th>
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</thead>
<tbody>
<tr>
<td>Removal Equipment</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Transportation Type</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Preparation Method</td>
<td>UNKNOWN</td>
</tr>
</tbody>
</table>

#### OPERATIONS

#### COUNTRIES

<table>
<thead>
<tr>
<th>County Name</th>
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<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
<td>Lewisport</td>
<td>Yes</td>
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#### QUADRANGLES

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<th>DR</th>
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<th>Quarters</th>
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<td>5</td>
<td>W</td>
<td>Sec.</td>
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<td>NW NE</td>
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<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec.</td>
<td>26</td>
<td>SW</td>
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<td>6</td>
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<td>5</td>
<td>W</td>
<td>Sec.</td>
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<td>SE</td>
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</table>

#### TRS LOCATIONS

#### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>20</td>
<td>3</td>
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<td>CO-BU REC77-098A</td>
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#### CITATIONS

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</tr>
<tr>
<td>Surface Mine Datasheet</td>
<td>701137</td>
<td>No</td>
</tr>
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Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010

Explanation of Year Codes:
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## Mine/Pit Data Sheet

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
<td>1977</td>
<td>1977</td>
</tr>
</tbody>
</table>

### COUNTIES

- **County Name**: Spencer  
  - **Primary**: Yes

### QUADRANGLES

- **Quadrangle Name**: Lewisport  
  - **Primary**: Yes

### TRS LOCATIONS

- **Twp**: 6  
- **DR**: S  
- **Rng**: 5  
- **DR**: W  
- **SecType**: Sec.  
- **Sec**: 26  
- **Quarters**: SE SE

### MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNKNOWN</td>
<td>1977</td>
<td>1977</td>
</tr>
</tbody>
</table>

### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### COAL GEOLOGY

- **Coal Seam/Member**: Minshall/Buffaloville Coal Mbr.  
  - **Depth (ft)**: -9999  
  - **Thickness (ft)**: -9999  
  - **Roof Lithology**: UNKNOWN  
  - **Floor Lithology**: UNKNOWN  
  - **Original Correlation**: CO-BU NCRDS

### COMMENTS

**Abbreviated Citation**: Surface Mine Datasheet  
**Internal No.**: 701138  
**Digital**: No

**Abbreviated Citation**: Strip Study Map  
**Internal No.**: 999988  
**Digital**: Yes

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**Indiana Geological Survey**  
**Indiana University**  
**Friday, July 02, 2010**

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. and N. Mine</td>
<td>1973</td>
<td>1973</td>
</tr>
<tr>
<td>Hagedorn Mine</td>
<td>1963</td>
<td>1966</td>
</tr>
</tbody>
</table>

### Start Date

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>MIN</th>
<th>Start</th>
<th>MAX</th>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
</tr>
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### End Date

### Ownership History

<table>
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<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duval and Nally Coal Co.</td>
<td>1973</td>
<td>1973</td>
</tr>
<tr>
<td>Hagedorn Coal Co.</td>
<td>1963</td>
<td>1966</td>
</tr>
</tbody>
</table>

### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: Scraper/Dozer
- **Transportation Type**: Truck
- **Preparation Method**: Crushed/Mine run/Screened

### Counties

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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</thead>
<tbody>
<tr>
<td>Spencer</td>
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### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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</thead>
<tbody>
<tr>
<td>Lewisport</td>
<td>Yes</td>
</tr>
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### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>Sec</th>
<th>Type</th>
<th>Sec</th>
<th>Quarters</th>
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</thead>
<tbody>
<tr>
<td>6</td>
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<td>W</td>
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<td>26</td>
<td>NE SE</td>
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### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>40</td>
<td>4</td>
<td>Fs</td>
<td>Fmmr</td>
<td>CO-BU HCH</td>
</tr>
</tbody>
</table>

### Comments

- Mapped from data card #122 which locates the mine in NE of SE of Sec 26, T6 S T5W.
- Hagedorn mined this site from 1963-66, the Duval & Nally mined the same site in 1973.

### Citations

<table>
<thead>
<tr>
<th>Abbreviated Citation</th>
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<th>Digital</th>
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<tr>
<td>Data Card</td>
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<tr>
<td>Data Card</td>
<td>122</td>
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<tr>
<td>Data Card</td>
<td>3625</td>
<td>No</td>
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<tr>
<td>Data Card</td>
<td>3649</td>
<td>No</td>
</tr>
<tr>
<td>Surface Mine Datasheet</td>
<td>701139</td>
<td>No</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

**MINENUMB**

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Grandview Mine</td>
<td>1978</td>
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</table>

### Start Date

<table>
<thead>
<tr>
<th>MIN</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
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<td>1978</td>
<td>1978</td>
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### End Date

<table>
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<tbody>
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<td>1978</td>
<td>1978</td>
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</table>

### Mine Ownership History

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
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</thead>
<tbody>
<tr>
<td>Teegarden, Paul A., Co.</td>
<td>1978</td>
<td>1978</td>
</tr>
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</table>

### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### Counties

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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</tbody>
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### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lewisport</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
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<tbody>
<tr>
<td>6</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec.</td>
<td>26</td>
<td>SE</td>
</tr>
</tbody>
</table>

### Coal GeoLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>30</td>
<td>3</td>
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<td>UNKNOWN</td>
<td>CO-BU</td>
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### Comments

### Citations

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<td>Interim Permit</td>
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<tr>
<td>Surface Mine Datasheet</td>
<td>701140</td>
<td>No</td>
</tr>
</tbody>
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**Indiana Geological Survey**  
**Indiana University**  
Friday, July 02, 2010

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

**MINENUMB**

**Surface**

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kelco #4 Mine</td>
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### END DATE

<table>
<thead>
<tr>
<th>MIN</th>
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<tr>
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<td>1977</td>
<td>1977</td>
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### START DATE

<table>
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<th>End</th>
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</thead>
<tbody>
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<td>1978</td>
<td>1978</td>
<td>1978</td>
</tr>
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### MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
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<th>Start</th>
<th>End</th>
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</thead>
<tbody>
<tr>
<td>Kelco, Inc.</td>
<td>1977</td>
<td>1978</td>
</tr>
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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
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<tbody>
<tr>
<td>Spencer</td>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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</thead>
<tbody>
<tr>
<td>Lewisport</td>
<td>Yes</td>
</tr>
</tbody>
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### TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
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<tbody>
<tr>
<td>6</td>
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<td>5</td>
<td>W</td>
<td>Sec.</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

7007 Mine is currently in operation

1001 Minimum date is unknown

9009 Maximum date is unknown
<table>
<thead>
<tr>
<th>MINE NAME HISTORY</th>
<th>START DATE</th>
<th>END DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mine Name</td>
<td>Start</td>
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</tr>
<tr>
<td>Dauby Mine</td>
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<td>1977</td>
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<thead>
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<th>OPERATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Name</td>
<td>Coal Removal Method</td>
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<tr>
<td>Mulzer Crushed Stone, Co.</td>
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<td></td>
<td>Removal Equipment</td>
</tr>
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<td></td>
<td>Shovel/Dozer/Loader</td>
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<td></td>
<td>Transportation Type</td>
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<td></td>
<td>Preparation Method</td>
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<table>
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<tr>
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<th>QUADRANGLES</th>
<th>TRS LOCATIONS</th>
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<tbody>
<tr>
<td>County Name</td>
<td>Primary</td>
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</tr>
<tr>
<td>Spencer</td>
<td>Yes</td>
<td>Lewisport</td>
</tr>
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<table>
<thead>
<tr>
<th>COAL GEOLOGY</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Coal Seam/Member</td>
<td>Depth (ft)</td>
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<tr>
<td>Blue Creek Coal Mbr.</td>
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<th>CITATIONS</th>
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<tr>
<td></td>
<td>Surface Mine Datasheet</td>
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Indiana Geological Survey
Indiana University
Friday, July 02, 2010

Explanation of Year Codes:
7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
## Coal Mine Information System

### Mine/Pit Data Sheet

#### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smith Mine (2)</td>
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</table>

#### Start Date

<table>
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<tr>
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<th>Start</th>
<th>MAX</th>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
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#### End Date

Coal Removal Method: UNKNOWN
Removal Equipment: UNKNOWN
Transportation Type: UNKNOWN
Preparation Method: UNKNOWN

### Counties

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lewisport</td>
<td>Yes</td>
</tr>
</tbody>
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### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
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<tbody>
<tr>
<td>6</td>
<td>S</td>
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<td>W</td>
<td></td>
<td></td>
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<td>SW</td>
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</table>

### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unnamed Mansfield</td>
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<td>-9999</td>
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<td>CO-MU NCRDS</td>
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### Comments

### Citations

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Indiana Geological Survey
Indiana University
Friday, July 02, 2010

Explanation of Year Codes:
7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
**COAL MINE INFORMATION SYSTEM**

Mine/Pit Data Sheet

**MINE NAME HISTORY**

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
<td>1951</td>
<td>1953</td>
</tr>
</tbody>
</table>

**START DATE**

<table>
<thead>
<tr>
<th>MIN</th>
<th>Start</th>
<th>MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950</td>
<td>1951</td>
<td>1953</td>
</tr>
</tbody>
</table>

**END DATE**

<table>
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<tr>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
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</thead>
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<tr>
<td>1952</td>
<td>1953</td>
<td>1954</td>
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**COUNTIES**

<table>
<thead>
<tr>
<th>County Name</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
</tbody>
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**QUADRANGLES**

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Fulda</td>
<td>Yes</td>
</tr>
</tbody>
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**TRS LOCATIONS**

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
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<td>4</td>
<td>W</td>
<td>Sec. 4</td>
<td>SW NW</td>
<td></td>
</tr>
</tbody>
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**COAL GEOLOGY**

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-MH PCM</td>
</tr>
</tbody>
</table>

**COMMENTS**

**NOTES AND COMMENTS**

Not shown on 1950 aerial photo; shown as mined on 1955.

**CITATIONS**

<table>
<thead>
<tr>
<th>Abbreviated Citation</th>
<th>Internal No.</th>
<th>Digital</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Mine Datasheet</td>
<td>701202</td>
<td>No</td>
</tr>
<tr>
<td>Aerial Photo, 1955</td>
<td>999932</td>
<td>Yes</td>
</tr>
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</table>

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
**COAL MINE INFORMATION SYSTEM**

**Mine/Pit Data Sheet**

<table>
<thead>
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### MINE NAME HISTORY

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### MINE OWNERSHIP HISTORY

<table>
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<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Imperial Mining Co.</td>
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<td>1977</td>
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<table>
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<tr>
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<tbody>
<tr>
<td>Removal Equipment</td>
<td>Scraper/Dozer/Loader</td>
</tr>
<tr>
<td>Transportation Type</td>
<td>Truck</td>
</tr>
<tr>
<td>Preparation Method</td>
<td>UNKNOWN</td>
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<table>
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<tr>
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</tbody>
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### QUADRANGLES

<table>
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<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Fulda</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### TRS LOCATIONS

<table>
<thead>
<tr>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>S</td>
<td>4</td>
<td>W</td>
<td>Sec.</td>
<td>4</td>
<td>NW</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-MH NCRDS</td>
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### CITATIONS

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<tr>
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<td>Data Card</td>
<td>5980</td>
<td>No</td>
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<td>Interim Permit</td>
<td>10214</td>
<td>Yes</td>
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<td>Surface Mine Datasheet</td>
<td>701203</td>
<td>No</td>
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<tr>
<td>Surface Mine Datasheet</td>
<td>701204</td>
<td>No</td>
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</table>

**Indiana Geological Survey**

**Indiana University**

**Friday, July 02, 2010**

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
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## START DATE

<table>
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## END DATE

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## MINE OWNERSHIP HISTORY

<table>
<thead>
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<tbody>
<tr>
<td>UNKNOWN</td>
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<td>1954</td>
</tr>
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## OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

## COUNTRIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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</tbody>
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## QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
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<tbody>
<tr>
<td>Fulda</td>
<td>Yes</td>
</tr>
</tbody>
</table>

## TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>S</td>
<td>4</td>
<td>W</td>
<td>Sec. 4</td>
<td>NE SE</td>
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</tr>
</tbody>
</table>

## COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
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<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>-9999</td>
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<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-MH PCM</td>
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</tbody>
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## COMMENTS

**NOTES AND COMMENTS**

Not mined on 1950 aerial photo; shown as mined on 1955 aerial photo.

## CITATIONS

<table>
<thead>
<tr>
<th>Abbreviated Citation</th>
<th>Internal No.</th>
<th>Digital</th>
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</thead>
<tbody>
<tr>
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<td>701205</td>
<td>No</td>
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<tr>
<td>Surface Mine Datasheet</td>
<td>701206</td>
<td>No</td>
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<tr>
<td>Surface Mine Datasheet</td>
<td>701207</td>
<td>No</td>
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<td>Aerial Photo, 1955</td>
<td>999932</td>
<td>No</td>
</tr>
<tr>
<td>Strip Study Map</td>
<td>999988</td>
<td>Yes</td>
</tr>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

---
COAL MINE INFORMATION SYSTEM
Mine/Pit Data Sheet

<table>
<thead>
<tr>
<th>Mine Name History</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hagerdorn Mine</td>
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</tr>
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<thead>
<tr>
<th>Mine Ownership History</th>
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<th>End</th>
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<tbody>
<tr>
<td>Hagedorn Coal Co.</td>
<td>1950</td>
<td>1952</td>
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<table>
<thead>
<tr>
<th>Operations</th>
<th>Description</th>
</tr>
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<tr>
<td>Coal Removal Method</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Removal Equipment</td>
<td>Drag/Loader</td>
</tr>
<tr>
<td>Transportation Type</td>
<td>Truck</td>
</tr>
<tr>
<td>Preparation Method</td>
<td>Screened</td>
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<table>
<thead>
<tr>
<th>Counties</th>
<th>Quadrangles</th>
<th>TRS Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>County Name</td>
<td>Primary</td>
<td>Quadrangle Name</td>
</tr>
<tr>
<td>Spencer</td>
<td>Yes</td>
<td>Fulda</td>
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<td></td>
<td></td>
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<table>
<thead>
<tr>
<th>Coal Geology</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-MH PCM</td>
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<table>
<thead>
<tr>
<th>Comments</th>
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</thead>
<tbody>
<tr>
<td>NOTES AND COMMENTS</td>
</tr>
<tr>
<td>Shown as mined on 1960 USGS topo quad.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Citations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abbreviated Citation</td>
</tr>
<tr>
<td>Data Card</td>
</tr>
<tr>
<td>Surface Mine Datasheet</td>
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<tr>
<td>Strip Study Map</td>
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</table>

Explanation of Year Codes:
7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
# COAL MINE INFORMATION SYSTEM
## Mine/Pit Data Sheet

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
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<td>1975</td>
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### START DATE

<table>
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### MINE OWNERSHIP HISTORY

<table>
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### OPERATIONS

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<tbody>
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<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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### COUNTRIES

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<th>County Name</th>
<th>Primary</th>
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### QUADRANGLES

<table>
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<tr>
<th>Quadrangle Name</th>
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<tr>
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### TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
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<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
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</table>

### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
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<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>-9999</td>
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<td>UNKNOWN</td>
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<td>CO-MH NCRDS</td>
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### COMMENTS

### CITATIONS

<table>
<thead>
<tr>
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<th>Internal No.</th>
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<tbody>
<tr>
<td>Surface Mine Datasheet</td>
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<tr>
<td>Strip Study Map</td>
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Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010

Explanation of Year Codes:  
7007 Mine is currently in operation  
1001 Minimum date is unknown  
9009 Maximum date is unknown
# COAL MINE INFORMATION SYSTEM
## Mine/Pit Data Sheet

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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### START DATE

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<td>1970</td>
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### MINE OWNERSHIP HISTORY

<table>
<thead>
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### OPERATIONS

<table>
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<tr>
<td>Removal Equipment</td>
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<tr>
<td>Preparation Method</td>
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### COUNTIES

<table>
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<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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### QUADRANGLES

<table>
<thead>
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<tbody>
<tr>
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### TRS LOCATIONS

<table>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<td>4</td>
<td>S</td>
<td>4</td>
<td>W</td>
<td>Sec.</td>
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<td>SE</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
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<tr>
<td>Mariah Hill Coal Mbr.</td>
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<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-MH NCRDS</td>
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### CITATIONS

<table>
<thead>
<tr>
<th>Abbreviated Citation</th>
<th>Internal No.</th>
<th>Digital</th>
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<tbody>
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<tr>
<td>Aerial Photo, 1974</td>
<td>999956</td>
<td>Yes</td>
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</table>

---

**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

---

**Explanation of Year Codes:**

7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

#### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ficker Mine</td>
<td>1977</td>
<td>1977</td>
</tr>
</tbody>
</table>

#### MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imperial Mining Co.</td>
<td>1977</td>
<td>1977</td>
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</table>

#### START DATE

<table>
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<td>1977</td>
<td>1977</td>
<td>1977</td>
</tr>
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#### END DATE

<table>
<thead>
<tr>
<th>MIN</th>
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</thead>
<tbody>
<tr>
<td>1977</td>
<td>1977</td>
<td>1977</td>
</tr>
</tbody>
</table>

#### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: Dozer/Loader
- **Transportation Type**: Truck
- **Preparation Method**: UNKNOWN

#### COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saint Meinrad</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
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<tbody>
<tr>
<td>4</td>
<td>S</td>
<td>4</td>
<td>W</td>
<td>Sec.</td>
<td>29</td>
<td>SE</td>
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#### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>50</td>
<td>-9999</td>
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#### COMMENTS

#### CITATIONS

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<td>Data Card</td>
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<td>Interim Permit</td>
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<td>700913</td>
<td>No</td>
</tr>
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**Indiana Geological Survey**

**Indiana University**

*Friday, July 02, 2010*

*Explanation of Year Codes:*

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
# Coal Mine Information System

**Mine/Pit Data Sheet**

## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
<td>1945</td>
<td>1946</td>
</tr>
</tbody>
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## START DATE

<table>
<thead>
<tr>
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<th>Start</th>
<th>MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1941</td>
<td>1948</td>
</tr>
</tbody>
</table>

## END DATE

<table>
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<th>Start</th>
<th>MAX</th>
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</thead>
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<tr>
<td></td>
<td>1942</td>
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## MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNKNOWN</td>
<td>1945</td>
<td>1946</td>
</tr>
</tbody>
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## OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

## COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
</tbody>
</table>

## QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saint Meinrad</td>
<td>Yes</td>
</tr>
</tbody>
</table>

## TRS LOCATIONS

<table>
<thead>
<tr>
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<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
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<td>4</td>
<td>W</td>
<td>Sec.</td>
<td>23</td>
<td>NE SE</td>
</tr>
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</table>

## Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>St. Meinrad Coal Bed</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-SM PCM</td>
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## Comments

**Notes and Comments**

Mapped from strip study map.

## Citations

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<thead>
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<th>Digital</th>
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<td>700914</td>
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</tr>
<tr>
<td>Strip Study Map</td>
<td>999988</td>
<td>Yes</td>
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</tbody>
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**Explanation of Year Codes**:
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

---

**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010
## Mine/Pit Data Sheet

### Mine Information
- **Mine Name**: Boehmann Mine
- **Start Date**: 1958
- **End Date**: 1960

### Mine Ownership History
- **Company Name**: Boehmann Co.
- **Start Date**: 1958
- **End Date**: 1960

### Coal Removal Method
- **Method**: Unknown

### Transportation Type
- **Method**: Stoker/Screened

### Coal Seam/Member
- **St. Meinrad Coal Bed**: 15 ft, 3.58 ft, Ss, Fmmr, CO-SM, HCH

### Counties
- **Spencer**: Primary Yes

### Quadrangles
- **Saint Meinrad**: Primary Yes

### TRS Locations
- **Twp**: 4, **DR**: S, **Rng**: 4, **W**: Sec. 23

### Citations
- **Abbreviated Citation**: Internal No.
- **Data Card**: 115
- **Surface Mine Datasheet**: 700915
- **Strip Study Map**: 999988

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**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
**COAL MINE INFORMATION SYSTEM**

Mine/Pit Data Sheet

<table>
<thead>
<tr>
<th>MINE NAME HISTORY</th>
<th>START DATE</th>
<th>END DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mine Name</td>
<td>Start</td>
<td>End</td>
</tr>
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<td>Vaals Mine</td>
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<table>
<thead>
<tr>
<th>MINE OWNERSHIP HISTORY</th>
<th>OPERATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Name</td>
<td>Coal Removal Method</td>
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<td>Vaal, Linus A., Co.</td>
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<table>
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<tr>
<th>COUNTIES</th>
<th>QUADRANGLES</th>
<th>TRS LOCATIONS</th>
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</tr>
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<td>Saint Meinrad</td>
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<tr>
<th>COAL GEOLOGY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coal Seam/Member</td>
</tr>
<tr>
<td>St. Meinrad Coal Bed</td>
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<table>
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<tr>
<td></td>
<td>Interim Permit</td>
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<tr>
<td></td>
<td>Surface Mine Datasheet</td>
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**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

**Indiana Geological Survey**
**Indiana University**

Friday, July 02, 2010
**COAL MINE INFORMATION SYSTEM**

**Mine/Pit Data Sheet**

**MINE NAME HISTORY**

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Abbey Run Mine</td>
<td>1979</td>
<td>1981</td>
</tr>
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**START DATE**

<table>
<thead>
<tr>
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<th>Start</th>
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<tr>
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<tr>
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**END DATE**

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</thead>
<tbody>
<tr>
<td></td>
<td>1981</td>
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**COUNTIES**

<table>
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</tr>
</thead>
<tbody>
<tr>
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<td>Yes</td>
</tr>
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**QUADRANGLES**

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
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**TRS LOCATIONS**

<table>
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<tr>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
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<td>NW</td>
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**MINE OWNERSHIP HISTORY**

<table>
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<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
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<td>Energy Supply Co.</td>
<td>1979</td>
<td>1981</td>
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**OPERATIONS**

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<tr>
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<tbody>
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<table>
<thead>
<tr>
<th>Removal Equipment</th>
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<table>
<thead>
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<th>Transportation Type</th>
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<table>
<thead>
<tr>
<th>Preparation Method</th>
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</thead>
<tbody>
<tr>
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</tbody>
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**COAL GEOLOGY**

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
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<td>CO-SM WAH</td>
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**COMMENTS**

**CITATIONS**

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<tr>
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<tbody>
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<td>Interim Permit</td>
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<td>600097</td>
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<td>Company Mine Map Photo</td>
<td>600098</td>
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<tr>
<td>Surface Mine Datasheet</td>
<td>700662</td>
<td>No</td>
</tr>
</tbody>
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Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010

**Explanation of Year Codes:**

7007 Mine is currently in operation  
1001 Minimum date is unknown  
9009 Maximum date is unknown
**COAL MINE INFORMATION SYSTEM**

**Mine/Pit Data Sheet**

**MINENUMB: 201544**

## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
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## START DATE

<table>
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## END DATE

<table>
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## MINE OWNERSHIP HISTORY

<table>
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## OPERATIONS

<p>| | |</p>
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<tr>
<td>Removal Equipment</td>
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<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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## COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
</tbody>
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## QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Saint Meinrad</td>
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## TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
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<th>Rng</th>
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## COAL GEOLOGY

<table>
<thead>
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<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>St. Meinrad Coal Bed</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-SM NCRDS</td>
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## COMMENTS

## CITATIONS

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</tr>
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<td>No</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohio Mine</td>
<td>1950</td>
<td>1953</td>
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### Start Date

<table>
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<tr>
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<th>MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950</td>
<td>1950</td>
<td>1950</td>
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</tbody>
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### End Date

<table>
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<td>1952</td>
<td>1953</td>
<td>1954</td>
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### Mine Ownership History

<table>
<thead>
<tr>
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<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ohio Valley Co.</td>
<td>1950</td>
<td>1953</td>
</tr>
</tbody>
</table>

### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### Counties

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tr>
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<td>S</td>
<td>5</td>
<td>W</td>
<td>1</td>
<td>C-</td>
</tr>
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### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
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### Comments

Not mined on 1950 aerial photo; shown as mined on 1955 aerial photo.

### Citations

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## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

** проведенный на**

### MINENUMB

**201647**

### Surface

### Mine Name History

<table>
<thead>
<tr>
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<tr>
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<table>
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### MINE OWNERSHIP HISTORY

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<tr>
<td>Landrey</td>
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<td>1947</td>
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### OPERATIONS

| Coal Removal Method | UNKNOWN |
| Removal Equipment   | UNKNOWN |
| Transportation Type | UNKNOWN |
| Preparation Method  | UNKNOWN |

### COUNTIES

<table>
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<tr>
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### QUADRANGLES

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<tr>
<th>Quadrangle Name</th>
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<tbody>
<tr>
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### TRS LOCATIONS

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### COAL GEOLOGY

<table>
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<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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### COMMENTS

**NOTES AND COMMENTS**

Not mined on 1940 aerial photo; mining completed on 1950 aerial photo.

### CITATIONS

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**Indiana Geological Survey**

**Indiana University**

**Friday, July 02, 2010**

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
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<tr>
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<td>1984</td>
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<tr>
<td>Energy Supply, Inc.</td>
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<td>1984</td>
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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### COUNTIES

<table>
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### QUADRANGLES

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<th>Primary</th>
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<tbody>
<tr>
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</tr>
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<tr>
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<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
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<td>Sec.</td>
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<td>5</td>
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<td>Sec.</td>
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<td>NW NE</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>-9999</td>
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<td>UNKNOWN</td>
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<td>CO-BU NCRDS</td>
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### NOTES AND COMMENTS

DOR Permit Number S-00081.

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<td>610182</td>
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<td>B200 Report of Affected Area</td>
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**Explanation of Year Codes**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### Mine/Pit Data Sheet

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<tr>
<th>MINENUMB</th>
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<td>Type</td>
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#### Quadrangles

<table>
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<tr>
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#### TRS Locations

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#### Operations

<table>
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<th>Details</th>
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<tr>
<td>Removal Equipment</td>
<td>UNKNOWN</td>
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<td>Transportation Type</td>
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<td>Preparation Method</td>
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#### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
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<td>State Mine Inspector Report</td>
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Indiana Geological Survey

Indiana University

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### Mine/Pit Data Sheet

**Mine Name History**

<table>
<thead>
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**Operations**

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**Counties**

<table>
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<tbody>
<tr>
<td>Spencer</td>
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**Quadrangles**

<table>
<thead>
<tr>
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<tr>
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**TRS Locations**

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**Coal Geology**

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<tr>
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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
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<th>Original Correlation</th>
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<tr>
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**Notes and Comments**

Re-affects #201354.

**Citations**

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**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

**Indiana Geological Survey**

**Indiana University**

**Friday, July 02, 2010**
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

#### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
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#### MINE OWNERSHIP HISTORY

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#### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

#### Counties

<table>
<thead>
<tr>
<th>County Name</th>
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<tr>
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#### Quadrangles

<table>
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<th>Primary</th>
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<tbody>
<tr>
<td>Dale</td>
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#### TRS Locations

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<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<td>SE</td>
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#### Coal Geology

<table>
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<tr>
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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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#### Comments

- **Abbreviated Citation**: Surface Mine Datasheet
- **Digital**: Yes
- **Internal No.**: 701227

#### Citations

- **Abbreviated Citation**: Surface Mine Datasheet
- **Digital**: Yes
- **Internal No.**: 9999992

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**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

---

**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010
# COAL MINE INFORMATION SYSTEM

## Mine/Pit Data Sheet

### MINENUMB 202185

**Surface**

## MINE NAME HISTORY

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<td>1953</td>
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## MINE OWNERSHIP HISTORY

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## OPERATIONS

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## QUADRANGLES

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<tr>
<th>County Name</th>
<th>Primary</th>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
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<td>Dale</td>
<td>Yes</td>
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## TRS LOCATIONS

<table>
<thead>
<tr>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
<tr>
<td>4</td>
<td>S</td>
<td>4</td>
<td>W</td>
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<td>NW</td>
<td>NW NW NW</td>
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<td>W</td>
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<td>Sec. 19</td>
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## COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>-9999</td>
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<td>UNKNOWN</td>
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<td>UNKNOWN</td>
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## COMMENTS

<table>
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<th>Digital</th>
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<tbody>
<tr>
<td>Surface Mine Datasheet</td>
<td>701233</td>
<td>No</td>
</tr>
<tr>
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<td>701234</td>
<td>No</td>
</tr>
<tr>
<td>Aerial Photo, 1955</td>
<td>999932</td>
<td>Yes</td>
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**Indiana Geological Survey**

Indiana University

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
**MINE NAME HISTORY**

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamar Mine</td>
<td>1981</td>
<td>1984</td>
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**START DATE**

<table>
<thead>
<tr>
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<th>Start</th>
<th>MAX</th>
</tr>
</thead>
</table>

**END DATE**

<table>
<thead>
<tr>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>1984</td>
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<td>1984</td>
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**COUNTIES**

- **County Name**: Spencer
- **Primary**: Yes

**QUADRANGLES**

- **Quadrangle Name**: Santa Claus
- **Primary**: Yes

**TRS LOCATIONS**

<table>
<thead>
<tr>
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**COAL GEOLOGY**

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
<td>Unnamed Mansfield</td>
<td>38</td>
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<td>UNKNOWN</td>
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**COMMENTS**

- **NOTES AND COMMENTS**: Re-affects 203205

---

**SURFACE**

**OPERATIONS**

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

**MINE OWNERSHIP HISTORY**

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Spencer Coal Corp</td>
<td>1983</td>
<td>1984</td>
</tr>
<tr>
<td>Energy Supply Co.</td>
<td>1981</td>
<td>1982</td>
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**COAL REMOVAL METHOD**

- **UNKNOWN**

**REMOVAL EQUIPMENT**

- **UNKNOWN**

**TRANSPORTATION TYPE**

- **UNKNOWN**

**PREPARATION METHOD**

- **UNKNOWN**

**CITATIONS**

<table>
<thead>
<tr>
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<td>Data Card</td>
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<tr>
<td>Company Mine Map Photo</td>
<td>600454</td>
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<td>Surface Mine Datasheet</td>
<td>701238</td>
<td>No</td>
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*Indiana Geological Survey*

*Indiana University*

*Friday, July 02, 2010*

*Explanation of Year Codes:*
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

**Mine/Pit Data Sheet**

**MINE NAME HISTORY**

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
<td>1946</td>
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**START DATE**

<table>
<thead>
<tr>
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**END DATE**

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## START DATE

**END DATE**

<table>
<thead>
<tr>
<th>MIN</th>
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<th>MAX</th>
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</thead>
<tbody>
<tr>
<td>1001</td>
<td>1946</td>
<td>1948</td>
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</tbody>
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**Operations**

### Coal Removal Method
- **UNKNOWN**

### Removal Equipment
- **UNKNOWN**

### Transportation Type
- **UNKNOWN**

### Preparation Method
- **UNKNOWN**

## COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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## QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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</thead>
<tbody>
<tr>
<td>Chrisney</td>
<td>Yes</td>
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## TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
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## COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
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<td>-9999</td>
<td>UNKNOWN</td>
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<td>BUF NCRDS</td>
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## COMMENTS

**NOTES AND COMMENTS**

No vegetation on 1950 aerial photo.

## CITATIONS

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<tr>
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<td>Aerial Photo, 1950</td>
<td>999931</td>
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<td>Strip Study Map</td>
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**Indiana Geological Survey**

**Indiana University**

**Friday, July 02, 2010**

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
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- 9009 Maximum date is unknown
### COAL MINE INFORMATION SYSTEM

**Mine/Pit Data Sheet**

**MINENUMB** 202197  
**Surface**

<table>
<thead>
<tr>
<th><strong>MINE NAME HISTORY</strong></th>
<th><strong>START DATE</strong></th>
<th><strong>END DATE</strong></th>
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</thead>
<tbody>
<tr>
<td>Mine Name</td>
<td>Start</td>
<td>End</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th><strong>MINE OWNERSHIP HISTORY</strong></th>
<th><strong>OPERATIONS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Name</td>
<td>Coal Removal Method</td>
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<tr>
<td>Rone, Otto</td>
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</tbody>
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<table>
<thead>
<tr>
<th><strong>COUNTIES</strong></th>
<th><strong>QUADRANGLES</strong></th>
<th><strong>TRS LOCATIONS</strong></th>
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<tbody>
<tr>
<td>County Name</td>
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<td>Dubois</td>
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<tr>
<th><strong>COAL GEOLOGY</strong></th>
<th><strong>CITATIONS</strong></th>
</tr>
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<tr>
<td>Coal Seam/Member</td>
<td>Depth (ft)</td>
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<td>Mariah Hill Coal Mbr.</td>
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<table>
<thead>
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<th><strong>COMMENTS</strong></th>
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<td>Company Mine Map</td>
<td>610175</td>
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<td>Surface Mine Datasheet</td>
<td>701245</td>
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**Indiana Geological Survey**  
**Indiana University**  
**Friday, July 02, 2010**

**Explanation of Year Codes:**
- 7007 Mine is currently in operation  
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## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

#### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
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#### START DATE

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#### END DATE

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<td>1983</td>
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<td>1983</td>
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#### MINE OWNERSHIP HISTORY

<table>
<thead>
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<tr>
<td>Theba Corp.</td>
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#### OPERATIONS

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<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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#### COUNTIES

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#### TRS LOCATIONS

<table>
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<tr>
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<th>Quarters</th>
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#### COAL GEOLOGY

<table>
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<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
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<td>UNKNOWN</td>
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#### COMMENTS

**NOTES AND COMMENTS**

Re-affects #201525

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**CITATIONS**

<table>
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<td>701249</td>
<td>No</td>
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<td>State Mine Inspector Report</td>
<td>999971</td>
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**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

---

**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

**MINENUMB**: 202204  
**Surface**

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
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<td>1955</td>
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### START DATE

<table>
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<td>1001</td>
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<td>1955</td>
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### END DATE

<table>
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<th>MAX</th>
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<td>1950</td>
<td>1955</td>
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### MINE OWNERSHIP HISTORY

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>UNKNOWN</td>
<td>1952</td>
<td>1955</td>
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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
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</tbody>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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### TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
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### COAL GEOLOGY

<table>
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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
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<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>CO-BU NCRDS</td>
</tr>
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### COMMENTS

- **NOTES AND COMMENTS**: mine shown on Spencer PCM, compiled in 1958.

### CITATIONS

<table>
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<th>Digital</th>
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<td>PCM #8, Spencer Co.</td>
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<td>Strip Study Map</td>
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</tbody>
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**Indiana Geological Survey**  
**Indiana University**  
Friday, July 02, 2010

**Explanation of Year Codes:**
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## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
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</thead>
<tbody>
<tr>
<td>Wahl Mine</td>
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<td>1982</td>
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### Mine Ownership History

<table>
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<th>Company Name</th>
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</thead>
<tbody>
<tr>
<td>Green Bay Fuels, Inc.</td>
<td>1981</td>
<td>1982</td>
</tr>
</tbody>
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### Counties

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
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### Quadrangles

<table>
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<tr>
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### TRS Locations

<table>
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<th>Rng</th>
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<th>SecType</th>
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<th>Quarters</th>
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<td>Sec. 16</td>
<td>SW NW</td>
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<td>4</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec. 17</td>
<td>SE NE</td>
<td></td>
</tr>
</tbody>
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### Operations

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Coal Removal Method</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Removal Equipment</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Transportation Type</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Preparation Method</td>
<td>UNKNOWN</td>
</tr>
</tbody>
</table>

### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
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<tbody>
<tr>
<td>Brazil Fm.</td>
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### Comments

### Citations

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<td>600144</td>
<td>Yes</td>
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<tr>
<td>Surface Mine Datasheet</td>
<td>701255</td>
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<td>Surface Mine Datasheet</td>
<td>701256</td>
<td>No</td>
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<td>State Mine Inspector Report</td>
<td>999971</td>
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<td>Aerial Photo, 1978</td>
<td>999992</td>
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**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

---

Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

<table>
<thead>
<tr>
<th>MINE NAME HISTORY</th>
<th>START DATE</th>
<th>END DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mine Name</td>
<td>Start</td>
<td>End</td>
</tr>
<tr>
<td>Halo Run Mine</td>
<td>1993</td>
<td>1994</td>
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<table>
<thead>
<tr>
<th>MINE OWNERSHIP HISTORY</th>
<th>OPERATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Name</td>
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</tr>
<tr>
<td>United Minerals Inc.</td>
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<td>Removal Equipment</td>
</tr>
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<td></td>
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<td></td>
<td>Preparation Method</td>
</tr>
<tr>
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<thead>
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<th>COUNTRIES</th>
<th>QUADRANGLES</th>
<th>TRS LOCATIONS</th>
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<tbody>
<tr>
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<td>Quadrangle Name</td>
<td>Twp</td>
</tr>
<tr>
<td>Spencer</td>
<td>Saint Meinrad</td>
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<table>
<thead>
<tr>
<th>COAL GEOLOGY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coal Seam/Member</td>
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<tr>
<td>Mariah Hill Coal Mbr.</td>
</tr>
</tbody>
</table>

### COMMENTS

**NOTES AND COMMENTS**

Permit #S-259

### CITATIONS

**Abbreviated Citation**

- Company Mine Map: 610167, Yes
- B200 Report of Affected Area: 999975, No

---

Indiana Geological Survey
Indiana University
Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

**Mine/Pit Data Sheet**

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Mariah Hill Mine</td>
<td>1984</td>
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### START DATE

<table>
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### END DATE

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### MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
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<tbody>
<tr>
<td>Energy Supply Co.</td>
<td>1984</td>
<td>1987</td>
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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Dale</td>
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### TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
<tr>
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<td>Sec.</td>
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<td>4</td>
<td>W</td>
<td>Sec.</td>
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<td>Sec.</td>
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<td>S</td>
<td>4</td>
<td>W</td>
<td>Sec.</td>
<td>18</td>
<td>NE</td>
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</table>

### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>NCRDS Crop</td>
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### COMMENTS

**NOTES AND COMMENTS**

Permit #S-00084

### CITATIONS

**Abbreviated Citation**

- Company Mine Map: 610168 | Yes
- B200 Report of Affected Area: 999975 | No

---

**Indiana Geological Survey**

**Indiana University**

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

Friday, July 02, 2010
## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tretter Mine</td>
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## START DATE

<table>
<thead>
<tr>
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## END DATE

<table>
<thead>
<tr>
<th>MIN</th>
<th>Start</th>
<th>MAX</th>
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</table>

## MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Foertsch Construction Co, Inc.</td>
<td>1991</td>
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## OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

## COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
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<tbody>
<tr>
<td>Spencer</td>
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## QUADRANGLES

<table>
<thead>
<tr>
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<th>Primary</th>
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<tbody>
<tr>
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<td>Yes</td>
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## TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
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<tbody>
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<td>W</td>
<td>Sec. 18</td>
<td>NE</td>
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<tr>
<td>4</td>
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## COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
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## NOTES AND COMMENTS

**Permit S-00240**

## CITATIONS

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<tbody>
<tr>
<td>Company Mine Map</td>
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<tr>
<td>B200 Report of Affected Area</td>
<td>999975</td>
<td>No</td>
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**Indiana Geological Survey**  
**Indiana University**  
Friday, July 02, 2010

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

#### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Crooked Creek Mine</td>
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#### START DATE

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#### END DATE

<table>
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#### MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
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</thead>
<tbody>
<tr>
<td>Energy Supply, Inc.</td>
<td>1984</td>
<td>1988</td>
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#### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

#### COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
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<tbody>
<tr>
<td>Spencer</td>
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#### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Dale</td>
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#### TRS LOCATIONS

<table>
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<tr>
<th>Twp</th>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
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<td>W</td>
<td>Sec.</td>
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<td>S</td>
<td>4</td>
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<td>NE</td>
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#### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
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#### COMMENTS

- **NOTES AND COMMENTS**: Permit #S-00079
- Re-affects #201391, 201386, & 202185

#### CITATIONS

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<td>Company Mine Map</td>
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<tr>
<td>B200 Report of Affected Area</td>
<td>999975</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
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</thead>
<tbody>
<tr>
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<td>1984</td>
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<table>
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### Mine Ownership History

<table>
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<tr>
<th>Company Name</th>
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</thead>
<tbody>
<tr>
<td>Theba Corp.</td>
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<td>1984</td>
</tr>
</tbody>
</table>

### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### Counties

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
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### Quadrangles

<table>
<thead>
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### TRS Locations

<table>
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<tr>
<th>Twp</th>
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<th>DR</th>
<th>SecType</th>
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<th>Quarters</th>
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### Coal Geology

<table>
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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
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<tr>
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### Comments

- **NOTES AND COMMENTS**
  - Permit #S-00030
  - Reaffects #201351

### Citations

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<tbody>
<tr>
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<td>610171</td>
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<td>State Mine Inspector Report</td>
<td>999971</td>
<td>No</td>
</tr>
<tr>
<td>B200 Report of Affected Area</td>
<td>999975</td>
<td>No</td>
</tr>
</tbody>
</table>

---

*Indiana Geological Survey*

*Indiana University*

*Friday, July 02, 2010*

*Explanation of Year Codes:*
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### Mine/Pit Data Sheet

#### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
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<tbody>
<tr>
<td>Boehmann Mine (2)</td>
<td>1969</td>
<td>1971</td>
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#### START DATE

<table>
<thead>
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<th>MIN</th>
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<tr>
<td></td>
<td>1969</td>
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<td></td>
<td>1971</td>
<td></td>
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<table>
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<th>MIN</th>
<th>End</th>
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<td></td>
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#### MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
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</thead>
<tbody>
<tr>
<td>Boehmann Coal Co.</td>
<td>1969</td>
<td>1971</td>
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#### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: Drag/Hi lift/Dozer
- **Transportation Type**: Truck
- **Preparation Method**: Screened

#### COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
</tbody>
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#### QUADRANGLES

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<thead>
<tr>
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<tbody>
<tr>
<td>Dale</td>
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</tbody>
</table>

#### TRS LOCATIONS

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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<td>4</td>
<td>W</td>
<td>Sec.</td>
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<td>SW NW</td>
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#### COAL GEOLOGY

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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
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<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>30</td>
<td>2</td>
<td>Fs</td>
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<td>CO-MH HCH</td>
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#### COMMENTS

- **NOTES AND COMMENTS**: Mapped from Strip Study Map

#### CITATIONS

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**Explanation of Year Codes**:
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

**Indiana University**

Friday, July 02, 2010
## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
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</thead>
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<td>Gessner Mine</td>
<td>1986</td>
<td>1987</td>
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### Operations

<table>
<thead>
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<th>Coal Removal Method</th>
<th>Removal Equipment</th>
<th>Transportation Type</th>
<th>Preparation Method</th>
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<tbody>
<tr>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
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### COUNTIES

<table>
<thead>
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<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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### Quadrangles

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<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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### Notes and Comments

- Permit #S-00197

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<td>Company Mine Map</td>
<td>610173</td>
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</tr>
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<td>B200 Report of Affected Area</td>
<td>999975</td>
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Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010

---

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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## Mine Ownership History

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<td>Boehmann Bros. Coal Co.</td>
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## Counties

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## Quadrangles

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## TRS Locations

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<th>Sec</th>
<th>Quarters</th>
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<td>5</td>
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<td>Sec.</td>
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## Coal Geology

<table>
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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>30</td>
<td>2</td>
<td>Fs</td>
<td>Fmmr</td>
<td>CO-MH HCH</td>
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## Comments

**NOTES AND COMMENTS**

Mapped from Hutchison's Field Map.

## Citations

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<td>Hutchinson, 1952-1975</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### Mine/Pit Data Sheet

**Mine Name History**

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Unknown Surface Mine</td>
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<td>1973</td>
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**Start Date**

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**Operations**

- Coal Removal Method: UNKNOWN
- Removal Equipment: UNKNOWN
- Transportation Type: UNKNOWN
- Preparation Method: UNKNOWN

**Counties**

<table>
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<th>County Name</th>
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**Quadrangles**

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**TRS Locations**

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**Coal Geology**

<table>
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<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tr>
<td>Mariah Hill Coal Mbr.</td>
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**Comments**

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*Indiana Geological Survey*

*Indiana University*

*Friday, July 02, 2010*

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
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### START DATE

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### MINE OWNERSHIP HISTORY

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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### COUNTIES

- **County Name**: Spencer
- **Primary**: Yes

### QUADRANGLES

- **Quadrangle Name**: Dale
- **Primary**: Yes

### TRS LOCATIONS

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<tr>
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### COAL GEOLOGY

<table>
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<tr>
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<th>Depth (ft)</th>
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<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tr>
<td>Mariah Hill Coal Mbr.</td>
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### COMMENTS


### CITATIONS

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<td>Yes</td>
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**Indiana Geological Survey**  
**Indiana University**  
*Friday, July 02, 2010*

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
COAL MINE INFORMATION SYSTEM
Mine/Pit Data Sheet

COAL MINE INFORMATION SYSTEM

MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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<tbody>
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MINENUMB: 203191

START DATE

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END DATE

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MINE OWNERSHIP HISTORY

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OPERATIONS

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<td>Transportation Type</td>
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<td>Preparation Method</td>
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COUNTIES

<table>
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<tr>
<th>County Name</th>
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<tr>
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QUADRANGLES

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<tr>
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TRS LOCATIONS

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COAL GEOLOGY

<table>
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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
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COMMENTS

NOTES AND COMMENTS

No polygon for this mine isresent on quad, so a circle was plotted in the approximate location according to Data Card #128.

CITATIONS

<table>
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Friday, July 02, 2010

Indiana Geological Survey
Indiana University

Explanation of Year Codes:
7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
### Mine/Pit Data Sheet

<table>
<thead>
<tr>
<th>Mine Name History</th>
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<td>1987</td>
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<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<td>Re-affects #201374</td>
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**Indiana Geological Survey**
**Indiana University**
Friday, July 02, 2010

**Explanation of Year Codes:**
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- 9009 Maximum date is unknown
COAL MINE INFORMATION SYSTEM
Mine/Pit Data Sheet

**MINE NAME HISTORY**

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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**START DATE**

<table>
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**END DATE**

<table>
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**MINE OWNERSHIP HISTORY**

<table>
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**OPERATIONS**

<table>
<thead>
<tr>
<th>Coal Removal Method</th>
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<tbody>
<tr>
<td>Removal Equipment</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Transportation Type</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Preparation Method</td>
<td>UNKNOWN</td>
</tr>
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**COUNTIES**

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**QUADRANGLES**

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
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<tbody>
<tr>
<td>Dale</td>
<td>Yes</td>
</tr>
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</table>

**TRS LOCATIONS**

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec.</td>
<td>34</td>
<td>NE NE</td>
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<td>4</td>
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<td>5</td>
<td>W</td>
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<td>5</td>
<td>W</td>
<td>Sec.</td>
<td>26</td>
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</table>

**COAL GEOLOGY**

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brazil Fm.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>NCRDS Crop</td>
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**COMMENTS**

<table>
<thead>
<tr>
<th>NOTES AND COMMENTS</th>
</tr>
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<tbody>
<tr>
<td>Permit #S-00237</td>
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**CITATIONS**

<table>
<thead>
<tr>
<th>Abbreviated Citation</th>
<th>Internal No.</th>
<th>Digital</th>
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<tbody>
<tr>
<td>Company Mine Map</td>
<td>610177</td>
<td>Yes</td>
</tr>
<tr>
<td>B200 Report of Affected Area</td>
<td>999975</td>
<td>No</td>
</tr>
</tbody>
</table>

---

**Explanation of Year Codes:**

- **7007** Mine is currently in operation
- **1001** Minimum date is unknown
- **9009** Maximum date is unknown

---

Indiana Geological Survey
Indiana University
Friday, July 02, 2010
### COAL MINE INFORMATION SYSTEM

#### Mine/Pit Data Sheet

**MINENUMB**
203194

**Surface**

<table>
<thead>
<tr>
<th>Mine Name History</th>
<th>Start</th>
<th>End</th>
</tr>
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<tbody>
<tr>
<td>Estis Mine</td>
<td>1975</td>
<td>1976</td>
</tr>
</tbody>
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<table>
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<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imperial Mining Co.</td>
<td>1975</td>
<td>1976</td>
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</table>

<table>
<thead>
<tr>
<th>Coal Removal Method</th>
<th>Removal Equipment</th>
<th>Transportation Type</th>
<th>Preparation Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>Truck</td>
<td>UNKNOWN</td>
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<table>
<thead>
<tr>
<th>Counties</th>
<th>Quadrangles</th>
<th>TRS Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Dale</td>
<td>Twp</td>
</tr>
<tr>
<td>4</td>
<td>S</td>
<td>5</td>
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### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brazil Fm.</td>
<td>-9999</td>
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<td>UNKNOWN</td>
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<td>NCRDS Crop</td>
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### Comments

**Notes and Comments**

Mapped from Strip Study Map

**Citations**

<table>
<thead>
<tr>
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<th>Digital</th>
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</thead>
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<tr>
<td>Data Card</td>
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<td>No</td>
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<tr>
<td>Strip Study Map</td>
<td>999988</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

---

Indiana Geological Survey
Indiana University
Friday, July 02, 2010
**COAL MINE INFORMATION SYSTEM**

Mine/Pit Data Sheet

**MINENUMB**

**Surface**

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Imperial Mine)</td>
<td>1975</td>
<td>1976</td>
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### START DATE

<table>
<thead>
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<td>1975</td>
<td>1975</td>
<td>1975</td>
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<table>
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<tr>
<th>MIN</th>
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<tr>
<td>1976</td>
<td>1976</td>
<td>1976</td>
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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: Truck
- **Preparation Method**: UNKNOWN

### COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
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<tbody>
<tr>
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<td>Yes</td>
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### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
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<tbody>
<tr>
<td>Dale</td>
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### TRS LOCATIONS

<table>
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<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>S</td>
<td>5</td>
<td>W</td>
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<td>SW</td>
<td>NE</td>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brazil Fm.</td>
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<td>-9999</td>
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<td>UNKNOWN</td>
<td>NCRDS</td>
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### COMMENTS

- **NOTES AND COMMENTS**: Mapped from Strip Study Map

### CITATIONS

<table>
<thead>
<tr>
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<th>Internal No.</th>
<th>Digital</th>
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</thead>
<tbody>
<tr>
<td>Data Card</td>
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<td>No</td>
</tr>
<tr>
<td>Strip Study Map</td>
<td>999988</td>
<td>Yes</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

---

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
**COAL MINE INFORMATION SYSTEM**

**Mine/Pit Data Sheet**

**MINENUMB**

203196

Surface

**MINE NAME HISTORY**

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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**START DATE**

<table>
<thead>
<tr>
<th>MIN</th>
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<td></td>
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<td>1994</td>
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<td>1996</td>
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<td>1996</td>
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**MINE OWNERSHIP HISTORY**

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foertsch Construction Co, Inc.</td>
<td>1994</td>
<td>1996</td>
</tr>
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**OPERATIONS**

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

**COUNTIES**

<table>
<thead>
<tr>
<th>County Name</th>
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<tbody>
<tr>
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**QUADRANGLES**

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tr>
<td>Dale</td>
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**TRS LOCATIONS**

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<td>5</td>
<td>W</td>
<td>Sec.</td>
<td>10</td>
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**COAL GEOLOGY**

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brazil Fm.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>Blunck &amp; Carpenter</td>
</tr>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>Blunck &amp; Carpenter</td>
</tr>
</tbody>
</table>

**NOTES AND COMMENTS**

DOR reports that mine is active in 1998. Other records indicate that coal removal was completed in 1996 and was being reclaimed through May 1999.

**CITATIONS**

<table>
<thead>
<tr>
<th>Abbreviated Citation</th>
<th>Internal No.</th>
<th>Digital</th>
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</thead>
<tbody>
<tr>
<td>Company Mine Map</td>
<td>610178</td>
<td>Yes</td>
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<tr>
<td>B200 Report of Affected Area</td>
<td>999975</td>
<td>No</td>
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<tr>
<td>1997 Coal Directory</td>
<td>999983</td>
<td>No</td>
</tr>
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</table>

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

---

Indiana Geological Survey
Indiana University
Friday, July 02, 2010
**COAL MINE INFORMATION SYSTEM**

**Mine/Pit Data Sheet**

| MINENUMB | 203197 | Surface |

**MINE NAME HISTORY**

<table>
<thead>
<tr>
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<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Lincoln City Mine</td>
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**_START DATE**

<table>
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<td>1978</td>
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**END DATE**

<table>
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<th>MIN</th>
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<th>MAX</th>
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</thead>
<tbody>
<tr>
<td>1979</td>
<td>1979</td>
<td>1979</td>
</tr>
</tbody>
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**MINE OWNERSHIP HISTORY**

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>D. and S. Coal, Inc.</td>
<td>1978</td>
<td>1979</td>
</tr>
</tbody>
</table>

**OPERATIONS**

<table>
<thead>
<tr>
<th>Coal Removal Method</th>
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<tbody>
<tr>
<td>Removal Equipment</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Transportation Type</td>
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</tr>
<tr>
<td>Preparation Method</td>
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**COUNTIES**

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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</tbody>
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**QUADRANGLES**

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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</thead>
<tbody>
<tr>
<td>Chrisney</td>
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**TRS LOCATIONS**

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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</thead>
<tbody>
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<td>5</td>
<td>W</td>
<td>Sec.</td>
<td>31</td>
<td>SW</td>
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</table>

**COAL GEOLOGY**

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>21</td>
<td>2.5</td>
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<td>CO-BU WAH</td>
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**COMMENTS**

**CITATIONS**

<table>
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<th>Digital</th>
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<tr>
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<td>Interim Permit</td>
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</tr>
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<td>Strip Study Map</td>
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<td>No</td>
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</tbody>
</table>

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Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Nussmeier #2 Mine</td>
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</tbody>
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## START DATE

<table>
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<tr>
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<td>1978</td>
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## END DATE

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>1979</td>
<td>1979</td>
<td>1979</td>
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## MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mulzer Crushed Stone, Co.</td>
<td>1978</td>
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## OPERATIONS

<table>
<thead>
<tr>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coal Removal Method</td>
</tr>
<tr>
<td>Removal Equipment</td>
</tr>
<tr>
<td>Transportation Type</td>
</tr>
<tr>
<td>Preparation Method</td>
</tr>
</tbody>
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## COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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## QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
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## TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
<tr>
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<td>W</td>
<td>Sec. 28</td>
<td>SE</td>
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<tr>
<td>5</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec. 27</td>
<td>SW</td>
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## COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>30</td>
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<td>UNKNOWN</td>
<td>CO-BU WAH</td>
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<table>
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<tr>
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<tr>
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<td>Interim Permit</td>
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<td>Company Mine Map Photo</td>
<td>600200</td>
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<td>Surface Mine Datasheet</td>
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</tr>
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Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010

Explanation of Year Codes:

7007 Mine is currently in operation  
1001 Minimum date is unknown  
9009 Maximum date is unknown
COAL MINE INFORMATION SYSTEM
Mine/Pit Data Sheet

MINENUMB 203199
Surface

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
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<td>Mulzer and Nussmeier #1 Mine</td>
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<td>1980</td>
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### MINE OWNERSHIP HISTORY

<table>
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<tbody>
<tr>
<td>Mulzer Crushed Stone, Co.</td>
<td>1979</td>
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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### COUNTIES

- **County Name**: Spencer
- **Primary**: Yes

### QUADRANGLES

- **Quadrangle Name**: Santa Claus
- **Primary**: Yes

<table>
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<tr>
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<td>5</td>
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<td>5</td>
<td>W</td>
<td>Sec.</td>
<td>28</td>
<td>NE SE</td>
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</table>

### TRS LOCATIONS

- **Minshall/Buffaloville Coal Mbr.**
  - **Depth (ft)**: 30
  - **Thickness (ft)**: 2.5
  - **Roof Lithology**: Si
  - **Floor Lithology**: UNKNOWN
  - **Original Correlation**: CO-BU REC79-133A

### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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### COMMENTS

### CITATIONS

- **Abbreviated Citation**
  - **Internal No.**: Digital
  - **Interim Permit**: 10278
  - **Company Mine Map Photo**: 600199
  - **Surface Mine Datasheet**: 700996

---

Indiana Geological Survey
Indiana University
Friday, July 02, 2010

Explanation of Year Codes:
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### Mine/Pit Data Sheet

#### Mine Name History

<table>
<thead>
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#### Mine Ownership History

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#### End Date

<table>
<thead>
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</thead>
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#### Operations

- Coal Removal Method: UNKNOWN
- Removal Equipment: UNKNOWN
- Transportation Type: Truck
- Preparation Method: Crushed/Mine run

#### Counties

<table>
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#### Quadrangles

<table>
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<tbody>
<tr>
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<td>Yes</td>
</tr>
</tbody>
</table>

#### TRS Locations

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<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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#### Coal Geology

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<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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- Abbreviated Citation: Data Card
- Internal No.: 118
- Digital: No
- Abbreviated Citation: Data Card
- Internal No.: 3638
- Digital: No
- Abbreviated Citation: Strip Study Map
- Internal No.: 999988
- Digital: Yes

---

Indiana Geological Survey
Indiana University
Friday, July 02, 2010

---

Explanation of Year Codes:
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
# COAL MINE INFORMATION SYSTEM
## Mine/Pit Data Sheet

### MINE NAME HISTORY
<table>
<thead>
<tr>
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### MINE OWNERSHIP HISTORY
<table>
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<th>Company Name</th>
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<tbody>
<tr>
<td>Foertsch Construction Co, Inc.</td>
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<td>1993</td>
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</table>

### OPERATIONS
- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### COUNTIES
- **County Name**: Spencer
  - Primary: Yes

### QUADRANGLES
<table>
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<tr>
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### TRS LOCATIONS
<table>
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### COAL GEOLOGY
<table>
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<tr>
<th>Coal Seam/Member</th>
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<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<td>Upper Block Coal</td>
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### COMMENTS
- **NOTES AND COMMENTS**
  - Permit #S-00209
  - Reaffects #201459 & #201437

### CITATIONS
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<td>1997 Coal Directory</td>
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**Indiana Geological Survey**
**Indiana University**

Friday, July 02, 2010

---

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
# Coal Mine Information System

## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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<tr>
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### Start Date

<table>
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<table>
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<tr>
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### County Name

<table>
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<tbody>
<tr>
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### Quadrangle Name

<table>
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<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
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<td>Yes</td>
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### Twp | DR | Rng | DR | SecType | Sec | Quarters |
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### Coal Seam/Member

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<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
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### Notes and Comments

- Permit #S-00188

### Citations

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<tr>
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<td>B200 Report of Affected Area</td>
<td>999975</td>
<td>No</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### Mine Name History

<table>
<thead>
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### End Date

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### Mine Ownership History

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Spencer Coal Corp.</td>
<td>1984</td>
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### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### Counties

<table>
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<tr>
<th>County Name</th>
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<td>Spencer</td>
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### Quadrangles

<table>
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<th>Quadrangle Name</th>
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<tbody>
<tr>
<td>Santa Claus</td>
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### TRS Locations

<table>
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<th>Twp</th>
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### Coal Geology

<table>
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<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
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- **Notes and Comments**: Permit #S-00119

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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### Mine/Pit Data Sheet

#### Surface

**COAL MINE INFORMATION SYSTEM**

**Mine Name History**

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Foertsch-Dilger Mine</td>
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<td>1995</td>
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**Start Date**

<table>
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<td>1990</td>
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**End Date**

<table>
<thead>
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<th>MAX</th>
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**Mine Ownership History**

<table>
<thead>
<tr>
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</thead>
<tbody>
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<td>1995</td>
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**Operations**

- Coal Removal Method: UNKNOWN
- Removal Equipment: UNKNOWN
- Transportation Type: UNKNOWN
- Preparation Method: UNKNOWN

**Counties**

- County Name: Spencer
  - Primary: Yes

**Quadrangles**

- Quadrangle Name: Santa Claus
  - Primary: Yes

**TRS Locations**

<table>
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<tr>
<th>Twp</th>
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<th>DR</th>
<th>SecType</th>
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<td>W</td>
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**Coal Geology**

- Coal Seam/Member: Minshall/Buffaloville Coal Mbr.
  - Depth (ft): -9999
  - Thickness (ft): -9999
  - Roof Lithology: UNKNOWN
  - Floor Lithology: UNKNOWN
  - Original Correlation: NCRDS Crop

**Notes and Comments**

- Permit #S-00164

**Citations**

- Abbreviated Citation: Company Mine Map
  - Internal No.: 610186
  - Digital: Yes
- Abbreviated Citation: B200 Report of Affected Area
  - Internal No.: 999975
  - Digital: No

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**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

**Mine/Pit Data Sheet**

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### MINE NAME HISTORY

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### MINE OWNERSHIP HISTORY

<table>
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### COUNTIES

<table>
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<tbody>
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<td>Yes</td>
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### QUADRANGLES

<table>
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<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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### TRS LOCATIONS

<table>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
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### COAL GEOLOGY

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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
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<td>-9999</td>
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<td>UNKNOWN</td>
<td>PCM #8</td>
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### COMMENTS

**NOTES AND COMMENTS**

Shown as mined on 1960 USGS Topo map

### CITATIONS

<table>
<thead>
<tr>
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<th>Internal No.</th>
<th>Digital</th>
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<tbody>
<tr>
<td>Strip Study Map</td>
<td>9999988</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- **7007 Mine is currently in operation**
- **1001 Minimum date is unknown**
- **9009 Maximum date is unknown**
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

<table>
<thead>
<tr>
<th>Mine Name History</th>
<th>Start</th>
<th>End</th>
<th>MIN</th>
<th>Start</th>
<th>MAX</th>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
</tr>
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<tr>
<td>Unknown Surface Mine</td>
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<td>1973</td>
<td></td>
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<td></td>
</tr>
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<table>
<thead>
<tr>
<th>Mine Ownership History</th>
<th>Start</th>
<th>End</th>
<th>MIN</th>
<th>Start</th>
<th>MAX</th>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNKNOWN</td>
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<td>1973</td>
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### Counties

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
<tr>
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<td>S</td>
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<td>W</td>
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<td>21</td>
<td>SE NW</td>
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### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffaloville Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
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<td>NCRDS Crop</td>
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### Comments

### Citations

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<td>Aerial Photo, 1978</td>
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**Indiana Geological Survey**  
**Indiana University**  
**Friday, July 02, 2010**

---

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northfield Mine</td>
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<td>1996</td>
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## START DATE

<table>
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## END DATE

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## MINE OWNERSHIP HISTORY

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>Foertsch Construction Co, Inc.</td>
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<td>1996</td>
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## OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

## COUNTIES

<table>
<thead>
<tr>
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<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
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## QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
</table>

## TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp.</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
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<td>5</td>
<td>W</td>
<td>Sec. 29</td>
<td></td>
<td>SE</td>
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<tr>
<td>5</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec. 29</td>
<td></td>
<td>NE SE</td>
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## COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minshall/Buffalville Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>NCRDS Crop</td>
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</table>

## COMMENTS

- **NOTES AND COMMENTS**: Permit #S-00193
- **Reaffects #201424**

## CITATIONS

- **Abbreviated Citation**: Company Mine Map
- **Internal No.**: 610189
- **Digital**: Yes

- **B200 Report of Affected Area**: 999975
- **Digital**: No

---

**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

---

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
# COAL MINE INFORMATION SYSTEM

## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Russell #1 Mine</td>
<td>1975</td>
<td>1976</td>
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### Start Date

<table>
<thead>
<tr>
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<td>1975</td>
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### End Date

<table>
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<td>1976</td>
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### Mine Ownership History

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Three States Trucking, Inc.</td>
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<td>1976</td>
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<td>B. and M. Coal Co.</td>
<td>1001</td>
<td>9009</td>
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### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: Truck
- **Preparation Method**: Crushed/Mine run

### Counties

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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</tbody>
</table>

### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
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<th>Quarters</th>
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### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
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<tr>
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<td>Fs</td>
<td>Fmmr</td>
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### Comments

- **Notes and Comments**: Re-affects 201642

### Citations

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<td>Strip Study Map</td>
<td>999988</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
## COAL MINE INFORMATION SYSTEM

### Mine/Pit Data Sheet

#### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
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</thead>
<tbody>
<tr>
<td>Sonnys Bluff #1 Mine</td>
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#### START DATE

<table>
<thead>
<tr>
<th>MIN</th>
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<th>Start</th>
<th>MAX</th>
<th>Start</th>
<th>MAX</th>
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</table>

#### END DATE

<table>
<thead>
<tr>
<th>MIN</th>
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<tr>
<td>1985</td>
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<td>1985</td>
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#### START DATE

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Removal Equipment</td>
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<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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#### COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
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<tr>
<td>Spencer</td>
<td>Yes</td>
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#### QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
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</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<tbody>
<tr>
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#### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
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<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
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<td>-9999</td>
<td>UNKNOWN</td>
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<td>NCRDS Crop</td>
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#### COMMENTS

**NOTES AND COMMENTS**

Permit S-00127

**CITATIONS**

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<td>B200 Report of Affected Area</td>
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Indiana Geological Survey
Indiana University
Friday, July 02, 2010

Explanation of Year Codes:
7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
COAL MINE INFORMATION SYSTEM

Mine/Pit Data Sheet

MINENUMB
203210
Surface

MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
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</thead>
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<tr>
<td>Liberal Mine</td>
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START DATE

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<td>1983</td>
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END DATE

<table>
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<td>1985</td>
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MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Marigold Mining, Inc.</td>
<td>1983</td>
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OPERATIONS

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Removal Equipment</td>
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<tr>
<td>Transportation Type</td>
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<tr>
<td>Preparation Method</td>
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COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
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</tbody>
</table>

QUADRANGLES

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Claus</td>
<td>Yes</td>
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TRS LOCATIONS

<table>
<thead>
<tr>
<th>Twp</th>
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COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>NCRDS Crop</td>
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<td>Minshall/Buffaloville Coal Mbr.</td>
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<td>-9999</td>
<td>UNKNOWN</td>
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<td>NCRDS Crop</td>
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</table>

NOTES AND COMMENTS

Permit #S-00110

Mine re-affects #201470 & #201448.

CITATIONS

<table>
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<tr>
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<tr>
<td>Company Mine Map</td>
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<td>IBMMS (1947-Present)</td>
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<td>No</td>
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</table>

Explanation of Year Codes:

7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown

Indiana Geological Survey
Indiana University
Friday, July 02, 2010
## Mine/Pit Data Sheet

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Schnuck Mine</td>
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<table>
<thead>
<tr>
<th>County Name</th>
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<th>Quadrangle Name</th>
<th>Primary</th>
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<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
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<td>Spencer</td>
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<td>Santa Claus</td>
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<td>5</td>
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<td>SE</td>
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</table>

## Coal Mine Information System

### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
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### Citations

<table>
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</thead>
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<tr>
<td>Data Card</td>
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<td>Interim Permit</td>
<td>10447</td>
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**Indiana Geological Survey**

**Indiana University**

**Friday, July 02, 2010**

**Explanation of Year Codes:**

7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
### Mine/Pit Data Sheet

#### MINENUMB 203212

**Surface**

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
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<tbody>
<tr>
<td>Walker, Chrisney #3 Mine</td>
<td>1972</td>
<td>1975</td>
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### Mine Ownership History

<table>
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<tr>
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</thead>
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<tr>
<td>Walker and Son Coal Co.</td>
<td>1972</td>
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### Counties

<table>
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<td>Yes</td>
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### Quadrangles

<table>
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<td>Yes</td>
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### TRS Locations

<table>
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### Coal Geology

<table>
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<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
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<tbody>
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<td>Minshall/Buffaloville Coal Mbr.</td>
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<td>CO-BU</td>
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### Comments

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<td>Yes</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

---

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
# COAL MINE INFORMATION SYSTEM

## Mine/Pit Data Sheet

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
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<tbody>
<tr>
<td>Foertsch #1 Mine</td>
<td>1982</td>
<td>1994</td>
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### MINE OWNERSHIP HISTORY

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</tr>
</thead>
<tbody>
<tr>
<td>Foertsch Construction Co, Inc.</td>
<td>1982</td>
<td>1994</td>
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### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### COUNTIES

<table>
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<td>Spencer</td>
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### QUADRANGLES

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<tr>
<th>Quadrangle Name</th>
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<tr>
<td>Santa Claus</td>
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### TRS LOCATIONS

<table>
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<tr>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
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<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
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<td>UNKNOWN</td>
<td>NCRDS Crop</td>
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### NOTES AND COMMENTS

- Permit #S-00058
- Re-affects #201458, #201479

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Indiana Geological Survey  
Indiana University  
Friday, July 02, 2010

**Explanation of Year Codes:**
- 7007 Mine is currently in operation  
- 1001 Minimum date is unknown  
- 9009 Maximum date is unknown
**COAL MINE INFORMATION SYSTEM**

### Mine/Pit Data Sheet

**203214**

**Surface**

### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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<tbody>
<tr>
<td>Unknown Surface Mine</td>
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<table>
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### MINE OWNERSHIP HISTORY

<table>
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### OPERATIONS

<table>
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<tr>
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<tr>
<td>Preparation Method</td>
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### COUNTRIES

<table>
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<tr>
<th>County Name</th>
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<tbody>
<tr>
<td>Spencer</td>
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### QUADRANGLES

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### TRS LOCATIONS

<table>
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### COAL GEOLOGY

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tbody>
<tr>
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<td>UNKNOWN</td>
<td>NCRDS Crop</td>
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### COMMENTS

**NOTES AND COMMENTS**

Shown as mined on 1960 USGS Topo quad.

**CITATIONS**

<table>
<thead>
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**Indiana Geological Survey**  
**Indiana University**

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown

**Friday, July 02, 2010**
### Mine/Pit Data Sheet

#### Mine Name History
<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</thead>
<tbody>
<tr>
<td>Catfish Valley Mine</td>
<td>1993</td>
<td>1994</td>
</tr>
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#### Operations
- **Coal Removal Method:** UNKNOWN
- **Removal Equipment:** UNKNOWN
- **Transportation Type:** UNKNOWN
- **Preparation Method:** UNKNOWN

#### Counties
- **County Name:** Primary
  - Spencer

#### Quadrangles
- **Quadrangle Name:** Primary
  - Lewisport

#### TRS Locations
<table>
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<tr>
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<tbody>
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#### Coal Geology
<table>
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<tr>
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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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<tr>
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<td>UNKNOWN</td>
<td>NCRDS Crop</td>
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#### Notes and Comments
- Permit #S-00281

### Citations
- **Abbreviated Citation**
- **Internal No.**
- **Digital**

#### Abbreviated Citation
- **Company Mine Map:** 610194
- **B200 Report of Affected Area:** 999975

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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
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- 9009 Maximum date is unknown
## Mine Name History

<table>
<thead>
<tr>
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</thead>
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## Start Date

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## Mine Ownership History

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## Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

## Counties

<table>
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<td>Spencer</td>
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## Quadrangles

<table>
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<tbody>
<tr>
<td>Lewisport</td>
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## TRS Locations

<table>
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<th>SecType</th>
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## Coal Geology

<table>
<thead>
<tr>
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<th>Floor Lithology</th>
<th>Original Correlation</th>
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## Comments

### Citations

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**Indiana Geological Survey**
**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**
- 7007 Mine is currently in operation
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- 9009 Maximum date is unknown
### COAL MINE INFORMATION SYSTEM

#### Mine/Pit Data Sheet

#### MINE NAME HISTORY

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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<tbody>
<tr>
<td>Sandy Creek Mine</td>
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#### START DATE

<table>
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#### MINE OWNERSHIP HISTORY

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
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<tbody>
<tr>
<td>Energy Supply, Inc.</td>
<td>1983</td>
<td>1987</td>
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#### OPERATIONS

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

#### COUNTIES

<table>
<thead>
<tr>
<th>County Name</th>
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#### QUADRANGLES

<table>
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<tr>
<th>Quadrangle Name</th>
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<tr>
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<td>Yes</td>
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#### TRS LOCATIONS

<table>
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<tr>
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<th>DR</th>
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#### COAL GEOLOGY

<table>
<thead>
<tr>
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<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
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#### COMMENTS

- Permit #S-00082
- Reaffects #201515

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<td>No</td>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
- 9009 Maximum date is unknown
### Coal Mine Information System

#### Mine/Pit Data Sheet

**Mine Name History**

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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**Start Date**

<table>
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<tr>
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<tbody>
<tr>
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<td>1990</td>
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</table>

**End Date**

<table>
<thead>
<tr>
<th>MIN</th>
<th>End</th>
<th>MAX</th>
</tr>
</thead>
</table>

#### Mine Ownership History

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alley-Cassety Coal Co.</td>
<td>1990</td>
<td>1995</td>
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#### Operations

<table>
<thead>
<tr>
<th>Coal Removal Method</th>
<th>UNKNOWN</th>
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<tbody>
<tr>
<td>Removal Equipment</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Transportation Type</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>Preparation Method</td>
<td>UNKNOWN</td>
</tr>
</tbody>
</table>

#### Counties

<table>
<thead>
<tr>
<th>County Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spencer</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dale</td>
<td>No</td>
</tr>
<tr>
<td>Saint Meinrad</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>S</td>
<td>4</td>
<td>W</td>
<td>Sec.</td>
<td>16</td>
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</tr>
<tr>
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<td>4</td>
<td>W</td>
<td>Sec.</td>
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</tr>
<tr>
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<td>4</td>
<td>W</td>
<td>Sec.</td>
<td>9</td>
<td>SW SW</td>
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<td>4</td>
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<td>4</td>
<td>W</td>
<td>Sec.</td>
<td>21</td>
<td>NW</td>
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#### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>-9999</td>
<td>-9999</td>
<td>UNKNOWN</td>
<td>UNKNOWN</td>
<td>NCRDS Crop</td>
</tr>
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</table>

#### Comments

**Notes and Comments**

Mapped from the Bond Release maps submitted by Alley-Cassety Coal Co., Inc. for IGS GIS pilot study for the DOR in 1997.

Re-affects #201381

**Citations**

<table>
<thead>
<tr>
<th>Abbreviated Citation</th>
<th>Internal No.</th>
<th>Digital</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Mine Map</td>
<td>610207</td>
<td>Yes</td>
</tr>
<tr>
<td>B200 Report of Affected Area</td>
<td>999975</td>
<td>No</td>
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</tbody>
</table>

**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

7007 Mine is currently in operation
1001 Minimum date is unknown
9009 Maximum date is unknown
### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hunley Creek Mine</td>
<td>1997</td>
<td>1999</td>
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</table>

### Start Date

<table>
<thead>
<tr>
<th>MIN</th>
<th>Start</th>
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<tbody>
<tr>
<td>1997</td>
<td>1997</td>
<td>1997</td>
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### End Date

<table>
<thead>
<tr>
<th>MIN</th>
<th>Start</th>
<th>MAX</th>
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</thead>
<tbody>
<tr>
<td>1999</td>
<td>1999</td>
<td>1999</td>
</tr>
</tbody>
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### Mine Ownership History

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Start</th>
<th>End</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foertsch Construction Co, Inc.</td>
<td>1997</td>
<td>1999</td>
</tr>
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### Operations

- **Coal Removal Method**: UNKNOWN
- **Removal Equipment**: UNKNOWN
- **Transportation Type**: UNKNOWN
- **Preparation Method**: UNKNOWN

### Counties

<table>
<thead>
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<th>County Name</th>
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</thead>
<tbody>
<tr>
<td>Spencer</td>
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</tr>
</tbody>
</table>

### Quadrangles

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Primary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dale</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### TRS Locations

<table>
<thead>
<tr>
<th>Twp</th>
<th>DR</th>
<th>Rng</th>
<th>DR</th>
<th>SecType</th>
<th>Sec</th>
<th>Quarters</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec. 12</td>
<td></td>
<td>SW SE</td>
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<tr>
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<td>S</td>
<td>5</td>
<td>W</td>
<td>Sec. 13</td>
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### Coal Geology

<table>
<thead>
<tr>
<th>Coal Seam/Member</th>
<th>Depth (ft)</th>
<th>Thickness (ft)</th>
<th>Roof Lithology</th>
<th>Floor Lithology</th>
<th>Original Correlation</th>
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</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>82</td>
<td>2.1</td>
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<td>DRN Permit</td>
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<td>Lower Block Coal Mbr.</td>
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<tr>
<td>Upper Block Coal</td>
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<td>DNR Permit</td>
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<td>Minshall/Buffaloville Coal Mbr.</td>
<td>25</td>
<td>1</td>
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</tbody>
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### Comments

- Final Affected Area map has been digitized.

### Citations

<table>
<thead>
<tr>
<th>Abbreviated Citation</th>
<th>Internal No.</th>
<th>Digital</th>
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</thead>
<tbody>
<tr>
<td>Company Mine Map</td>
<td>610309</td>
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</tbody>
</table>
## Mine/Pit Data Sheet

### Mine Name History

<table>
<thead>
<tr>
<th>Mine Name</th>
<th>Start</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Flint Hill Mine</td>
<td>2000</td>
<td>7007</td>
</tr>
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### Ownership History

<table>
<thead>
<tr>
<th>Company Name</th>
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</thead>
<tbody>
<tr>
<td>Triad Mining of Indiana</td>
<td>2000</td>
<td>7007</td>
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### Quadrangles

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<thead>
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<td>5</td>
<td>W</td>
<td>Sec.</td>
<td>15</td>
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<td>5</td>
<td>W</td>
<td>Sec.</td>
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</thead>
<tbody>
<tr>
<td>Mariah Hill Coal Mbr.</td>
<td>-9999</td>
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<td>UNKNOWN</td>
<td>2000 Coal Dir.</td>
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<td>Brazil Fm.</td>
<td>-9999</td>
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<td>2000 Coal Dir.</td>
</tr>
</tbody>
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### Operations

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
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<tbody>
<tr>
<td>Coal Removal Method</td>
<td>UNKNOWN</td>
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<td>Removal Equipment</td>
<td>UNKNOWN</td>
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<tr>
<td>Preparation Method</td>
<td>UNKNOWN</td>
</tr>
</tbody>
</table>

### Comments

- Mine information was collected for the 2000 Coal Directory. Mine was under construction at the time the directory was published, therefore, no coal removal area was available at that time. A placeholder polygon was created within the permit boundary such that some corresponding spatial data could be associated with this tabular record.

- Digital map collected from DOR (Forrest Brown) for update of CMIS and Coal Directory. Mine now active - placeholder polygon was deleted.

### Citations

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<thead>
<tr>
<th>Abbreviated Citation</th>
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<tbody>
<tr>
<td>Company Mine Map</td>
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<td>Yes</td>
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<tr>
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</tr>
</tbody>
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**Indiana Geological Survey**

**Indiana University**

Friday, July 02, 2010

**Explanation of Year Codes:**

- 7007 Mine is currently in operation
- 1001 Minimum date is unknown
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