



Form 180

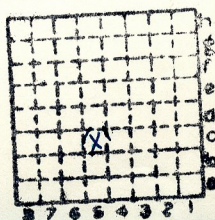
R - F

Summit CMC

L 27

270

Mine Index



Sec.	9	
T.	1	N.
R.	8	E.
		W.
Index No.		



Mine originally operated by: (1)

Date

1894 I-27

SUMMIT COAL CO

Original name or number:

Illinois Coal Report

p.

MORGAN

LATER OPERATORS

Date

Operator

Name or No.

2 1903. SUMMIT COAL + MINING CO.

3

4

5

6

7

8

9

10

11

12

13

14

A62 ~ 1940 - 41

\* Also owners

#See ownership sheet

Railroad, Wagon, Idle, Abandoned

Shaft Mine

L-N.R.R.

1934

IDENTIFICATION L-27

County No. 270

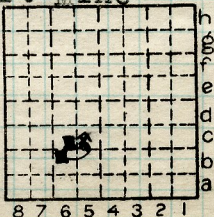
Coal No.

6

Part

Quad. 226

County ST CLAIR



Sec. 9

T. 1 N.

R. 8 W.

Index No.

COAL MINE OPERATOR

0709-5c

helle



( Sheets) COAL PRODUCTION (Sheet )

Period						Tons
Mo.	Day	Year	Mo.	Day	Year	
1	1	34	12	31	34	IDLE IDLE
1	1	35	12	31	35	

SUMMARIES

No.	to	No.	Tons
1894	-	1933	1,373.157

Railroad, Wagon, Idle, Abandoned

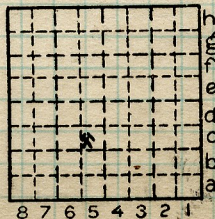
L.+N.R.R. IDENTIFICATION L-27

LOCAL MINE

County No. Coal No. 6

Quad. Part

County ST CLAIR



Sec. 9

T. 1 N. S.

R. 8 W.

Index No.

COAL MINE—PRODUCTION

late 0709-59



LOCATION AND ELEVATION

Location: **NE** side **L&N** R. R.  
 side R. R.  
 side Highway No.

on top. map **226** Location sheet **13-87-42b**

Elevation: Method, 1. Est. ( ) \_\_\_\_\_ ft.  
 2. Inst. (kind **Plane Table**) **566** ft.

By **W.B.R.** Data sheet

DEPTH

Authority To coal **114** ft.  
 Authority Rail to rail \_\_\_\_\_ ft.  
 Top of coal above rail. (Est. Rule) \_\_\_\_\_ ft.  
 To coal **180** ft.

ALTITUDE OF TOP OF COAL

By estimated data \_\_\_\_\_  
 By instrumental data **452** **386** \_\_\_\_\_ ft.

Thickness

Max. in. Min. in. Aver. **84** in.

GEOLOGICAL DATA

Mine notes, date **1930** \_\_\_\_\_

Coop No. **22** Pyr. inv. Coal Ash inv.

CHEMICAL DATA

Analyses Face	U. I.	B. M.	Others
Car	U. I.	B. M.	Others
Org. Sulf	U. I.	B. M.	Others
Ash fusion	U. I.	B. M.	Others
Ash anal.	U. I.	B. M.	Others
	U. I.	B. M.	Others

Classification

Misc. tests: Coking. Cleaning Boiler

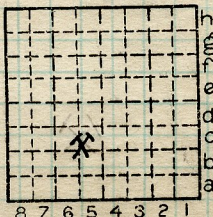
Published descriptions: **Bull. 11**

Railroad, Wagon, Idle, Abandoned

**LOCAL MINE**

IDENTIFICATION

County No. **270** Coal No. **L-27**  
**6**  
 Quad. **Belleville** Part **7**  
 County **St. Clair**



Sec. 9

T. **1** N.  
**8**  
 R. **8** W.

Index No.

**0709.50**

COAL MINE LOCATION AND DATA

*1d1e*



# Illinois Department of Natural Resources

One Natural Resources Way · Springfield, Illinois 62702-1271  
[www.dnr.illinois.gov](http://www.dnr.illinois.gov)

Bruce Rauner, Governor  
Wayne Rosenthal, Director

**FOR IMMEDIATE RELEASE**  
February 21, 2018

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## **Federal and State Agencies Partner to Save Sinking Illinois School**

**SWANSEA, IL** - The U.S. Office of Surface Mining Reclamation and Enforcement (OSMRE) has approved a nearly \$1.9 million Abandoned Mine Land (AML) project to protect more than 450 middle school children in Swansea.

The award comes five months after the ground beneath Wolf Branch Middle School dropped nearly 25 inches when the old underground mine workings collapsed, resulting in extensive structural damage to the school building. The building is temporarily shut down and the 450 children have been moved to a nearby school until the situation can be mitigated.

Federal and state mining officials and the Wolf Branch School District have combined their resources and are working together to stabilize the hollow ground beneath the school and to restore it so the site can once again provide a safe environment for the community's children to learn and grow. Work will be managed by the Illinois Department of Natural Resources (IDNR) AML Emergency Program.

### **Project Background**

Built in 2002 at a cost of \$16 million, the Wolf Branch Middle School has a current enrollment of 450 students.

While the Wolf Branch Middle School building has been closed for safety reasons, the IDNR AML Emergency Program, with assistance from OSMRE's Alton Field Division, has been conducting a drilling program to determine subsurface mine conditions in order to develop stabilization plans. The AML Phase I Emergency drilling project was completed earlier this year at a cost of \$288,374. Structural engineers were also called upon to inspect the structure and identify additional safety concerns to the contorted building.

### **AML Backfill Project and School Rebuilding**

Historical data and research on the area shows that the Wolf Branch Middle School property overlies the abandoned Summit Coal Mine, which operated from 1894 to 1940. The depth to the coal seam is 185 feet, and the mined-out thickness is 6 feet. The AML Phase II Emergency backfilling project to be conducted on the school site will protect the undamaged portion of the building by preventing the mine

beneath it from collapsing. In addition, it will stop the active ground movements that are continuing to cause damage to the east half of the school.

It is anticipated that the pumping of grouting material into the abandoned mine will start in mid-April and be completed early this summer at a cost of \$1.9 million. Once the IDNR AML Emergency Program can stop the subsidence through grouting, the site can be used safely. The Wolf Branch School District plans to rebuild the damaged portions of the building using school district funds. The heavily damaged portion of the building will be removed in a cost sharing venture between the IDNR AML Program and school district and addressed as a mine land reclamation project.

“The Illinois Department of Natural Resources is proud to be working with our federal partners at the OSMRE and the Wolf Branch School District on this important public safety project,” said Tom Benner, director of the IDNR Office of Mines and Minerals. “The effective coordination among state, federal and the local authorities is paramount to the success of this project. The efficient leveraging of available funds will allow the school building to reopen and, most importantly, to ensure a safe place for the children to learn.”

“The school district is extremely appreciative of the resources provided by the IDNR and the OSMRE,” said Wolf Branch School District superintendent Scott Harres. “The onsite expertise and funding assistance made possible through the AML Program have been vital in allowing the district to take the necessary steps to safely house our grades 5 through 8 students at the Wolf Branch Middle School as soon as possible.”

### **The Impacts Caused by AML Subsidence in Illinois**

The AML Program was created by the U.S. Congress in 1977 as part of the Surface Mining Control and Reclamation Act (SMCRA) in order to both protect the public and to restore environmentally damaged lands associated with legacy coal mining activities. Of particular importance in Illinois are the abandoned underground coal mines that cause subsidence. In the 53 coal-producing counties of Illinois, there are 252 public schools that are undermined and at risk of subsidence. To date, at least 16 Illinois schools have been damaged by unplanned coal mine subsidence events over abandoned room and pillar mines.

In addition to schools, the IDNR AML program has documented subsidence related damages to more than 2,000 homes, as well as numerous commercial buildings and bridges, since the creation of the AML Program under SMCRA. Many of the subsidence cases have caused life-threatening damages requiring extensive structural shoring and adjustable bracing systems – projects which had to be implemented swiftly to keep portions of the structures safe for occupancy.

The AML Program is funded by fees levied on current coal mine operations that are used to keep the public and environment safe from past coal mining activities. OSMRE approves each AML Emergency Project and its funding. Funding for the AML program is scheduled to end in 2021, unless extended by the U.S. Congress.

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- Recent Wolf Branch Information**
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  - PLC - Parent FAQs
  - Job Vacancy Information
  - Business Office
  - Parent-Student Handbook
  - Common Core
  - Water Sampling
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- Lunch Menu**
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  - Cross Country
  - Soccer
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  - 5th/6th Girls Basketball
  - 7th/8th Girls Basketball
  - Girls Volleyball
  - Boys Volleyball
  - Wrestling
  - Bowling
  - Track
  - Cheerleading
  - Dance

### Vision Statement

The Wolf Branch School District, in active partnership with parents and the community, will promote excellence in a respectful and caring environment in which all students learn and grow. This partnership shall empower all students to develop strong self-esteem and to become engaged learners, informed decision-makers, and responsible, considerate, contributing citizens in an ever-changing society.

<p><b>Elementary School</b>                  125 Huntwood Road                  Swansea, IL 62226                  Phone: 618-277-2100                  Fax: 618-277-9786                  Office Hours: 7:20 a.m. - 3:40 p.m.                  School Hours: M, T, TH, F 8:05 a.m. - 3:05 p.m.</p>	<p><b>Middle School</b>                  125 Huntwood Road                  Swansea, IL 62226                  Phone: 618-277-2100                  Fax: 618-277-9786                  Office Hours: 7:20 a.m. - 3:40 p.m.                  School Hours: M, T, Th, F - 8:05 a.m. - 3:05 p.m.</p>	<p><b>District Office</b>                  410 Huntwood Road                  Swansea, IL 62226                  Phone: 618-277-2100                  Fax: 618-235-2376                  Office Hours: 7:30 a.m. - 3:30 p.m.</p>
W - 8:05 a.m. - 2:05 p.m.	W - 8:05 a.m. - 2:05 p.m.	W - 8:05 a.m. - 2:05 p.m.

## WOLF BRANCH MIDDLE SCHOOL SAG SUBSIDENCE

Updated 2/22/2018

Illinois Department of Natural Resources and US Department of Interior come through to fund the grouting of the mine voids underneath the Wolf Branch Middle School in order to prevent any further damage from occurring!

### HISTORICAL TIMELINE:

**2017-2018**  
 (Updates Highlighted and Underlined)

- Monday, August 21** – A small crack in a hallway floor is detected outside the Middle School Office.
- Monday, August 28** – A small amount of buckled floor tile is detected approximately 20 feet south of the original crack.  
 SCI Engineering & Woolpert Architecture are contacted to analyze and monitor the situation.
- Tuesday, September 4** – A small section of the band room drop ceiling becomes detached.  
 Architects and engineers continued to monitor.
- Sunday, September 10** – A meeting is convened by Woolpert Architecture to discuss the buckling of asphalt observed in the bus drop-off lane.  
 Upon inspection of the interior of the Middle School, significant damage to the walls is discovered in the gymnasium. The district is advised to call the Illinois Department of Natural Resources – Abandoned Mined Lands Reclamation Division.
- Monday, September 11** – The district contacts IDNR-AMLRD Emergency Section.  
 IDNR-AMLRD engineers arrive on-site at approximately 10:00 AM. Upon further investigation by them, it is determined that sag type mine subsidence is impacting the eastern portion of the school, primarily the gymnasium and multipurpose room. School officials cordon off those areas. Damages to the building and property are presented to the IDNR by the Wolf Branch School District Superintendent, SCI Engineering, Inc. and Woolpert Architecture.

Concussion Form/Athletic Fee Form
Sports Boosters
<b>Band</b>
<b>Clubs/Orgs.</b>
Chess Club
The Daily Wolverine
Drama Club
FCA
Media Club
Scholar Bowl
<b>Wolf Branch PTC</b>
<b>Kindergarten Chick Cams</b>

Based on observations and ground movements, the IDNR engineers determine that the sag subsidence has impacted an area of about 3 acres. The school property overlies the abandoned Summit Mine which operated from 1894 to 1940. The depth to the coal seam is estimated to be 154 feet and the mined out thickness is 6 feet. After drilling is initiated, it is discovered that the coal seam is approximately 187 feet below ground surface.

**Tuesday, September 12** - After investigating the structural damages more closely and noting additional movement, IDNR-AM LRD Emergency Section engineers discuss with district administration the possibility of restricting access to additional areas of the building:

- One hallway that is analyzed is adjacent to the multipurpose room being utilized to serve lunches. On the north side of this hallway, the masonry columns supporting the multipurpose room are observed to be badly cracked.

- A break room located adjacent to the kitchen area also has some masonry damage above two windows.

- The band room, which is located north of the gymnasium and stage.

**Wednesday, September 13** – The decision is made to halt the usage of the Middle School since the cafeteria, gymnasium, locker rooms, band room, and kitchen are no longer safe for student use.

School District officials decide to cancel classes on September 14 and 15 in order to relocate the middle school classes to the Wolf Branch Elementary School.

**Thursday, September 14 & Friday, September 15** – School employees, along with numerous community volunteers, move all necessary equipment and supplies from the Middle School to the Elementary School in order to accommodate Middle School students.

Any and all available storage area at the Elementary Building is converted into classroom space.

**Thursday, September 14** – The Village of Swansea Fire Chief, John McGuire is briefed regarding building damage and the potential for damage to building utilities, such as water service and natural gas lines. After consulting with the Superintendent of Schools, it is agreed to contact Ameren to have the natural gas service shut off on this date. This shuts off the boilers, thus eliminating a heat source for the building.

**Monday, September 18** – Attendance is re-established for all Wolf Branch K-8 students at the Wolf Branch Elementary Building.

**Wednesday, September 27** – District administration meets with representatives from the Illinois State Board of Education to determine the requirements necessary to formulate a plan for obtaining state assistance.

**Wednesday, September 20** - The services of a structural engineer with Thouvenot, Wade & Moerchen, Inc. (TWM) are obtained by the IDNR to assist in the inspection and evaluation of the building.

**Thursday, September 21** – The IDNR determines that the cafeteria, gymnasium, locker rooms, band room, and kitchen are no longer safe for access. Therefore, all movable kitchen equipment is evacuated and a portable freezer is leased to store all frozen commodities already on hand.

**Tuesday, October 3** – District administration meets with Illinois State Representative Jay Hoffmann to discuss state level assistance.

**Wednesday, October 18** – District administration meets with directors from the IDNR headquarters in Springfield, as well as representatives from the federal Department of the Interior.

**Thursday, October 19** – District administration meets with the district’s insurance firm to provide insight on damages incurred.

**Friday, October 27** – Drilling to determine the accuracy of the mine voids begins. This contract is awarded and funded by the IDNR.

**Monday, November 13** – After meeting with multiple architectural firms, the district decides to enter into negotiations with Ittner Architecture.

If negotiations are successful, the architectural firm’s first tasks will be to coordinate a repair strategy with the IDNR, the ISBE, the Illinois Capital Development Board, and the school district, as well as develop a plan to re-establish heat in the Middle School.

**Monday, November 20** – Through a project funded by the IDNR, security fences are installed around the Middle School.

**Monday, November 20** – District offices are moved out of the Middle School into a small trailer located behind the Elementary School that the district is leasing.



**Tuesday, November 21** – Drilling is completed. Of the 27 drill locations, approximately 22 validated accuracy of the mine map. The IDNR will utilize this information to reevaluate and update the mine map.

**Monday, November 27** – The IDNR develops possible plans for grouting the mine voids impacting the Middle School.

**Friday, December 1** – The district formally enters into an agreement to utilize the services of Ittner Architects.

**Monday, December 4** – After consulting with engineers from Ameren, mechanical engineers conduct an intensive assessment of the Middle School in order to finalize plans to re-establish use of the building boilers for heat.

**Monday, December 4** – Structural engineers remove sections of ceilings and walls to better assess the integrity of the Middle School's supportive structure.

**Thursday, December 7, 2017** – The Swansea Fire Chief consults with onsite mechanical engineers and other HVAC experts, and subsequently, proclaims that once natural gas service has been disconnected from the heaviest impacted areas of the Middle School, it can be reconnected to the boilers so that heat can be reestablished to prevent water lines from freezing in the unaffected areas.

**Friday, December 8, 2017** – Water service is disconnected to the areas of greatest impact.

**Friday, December 8, 2017** – The boilers have been restarted.

**Friday, December 8, 2017** – Structural engineers continue to evaluate the building to determine how to best salvage certain, impacted parts of the Middle School.

**Tuesday, December 12, 2017** – The exterior sprinkler connection is rerouted to a non-impacted area of the building.

**Wednesday, February 21, 2018** – The Illinois Department of Natural Resources issues a press release announcing that it, in cooperation with the federal Department of the Interior – Office of Surface Mining, has secured a grant for \$1.9 million to completely grout the mine voids underneath the Middle School.

### **FACT SHEET**

- Mine subsidence has caused the Middle School building to shift.
- In the best interest of the students' safety, a determination was made to move all students to the Elementary Building.
- The School Board and administration are committed to returning students and staff to the Middle School as soon as possible, BUT NOT UNTIL IT HAS BEEN DEEMED SAFE.
  - No timeline has been established yet by the professionals, as they continue to describe it as a "fluid situation".
  - While housing all students in one building is certainly not the most conducive way to accommodate student learning, has caused a great deal of congestion, and has required a tremendous amount of flexibility, the staff and students are making it work.
- The movement continues at a rate of about 1/2 mm/day.
- Significant damage has occurred to the eastern half of the building.
- Some parts of the building have exhibited little, if any, damage.
- The IDNR, in cooperation with the Illinois State Board of Education and the St. Clair County Regional Superintendent of Schools, has determined that the section of the Middle School east of the front, main entrance must be demolished and replaced.
  - The district has contracted with Ittner Architecture to develop a plan to rehab or replace the damaged portions of the existing building.
  - Mechanical engineers have assessed the existing building and have determined that the boilers and chillers can be safely started up again to provide heat and air quality.
- The Illinois Department of Natural Resources continues to monitor the situation.
- The IDNR has finished Phase I – a drilling project, contracted and funded by them.
- The Phase I drilling project was to determine the accuracy of the mine map that the IDNR has on file from 1940.
- Most of the areas in which the IDNR predicted that the drilling company would drill into a void proved correct, as were most of their predictions for the areas in which they predicted they would be drilling into a coal pillar.
  - Also as part of Phase I, the IDNR contracted and funded the construction of a safety fence around the building.
- Ittner Architects continues to work with the Illinois State Board of Education, the Illinois Capital Development Board, the Wolf Branch School Board, and the IDNR to develop a Health/Life/Safety plan.
- The district has been communicating, as well, with its financial advisors.

- The IDNR has developed a plan (Phase 2), and has secured funding, to pump grout into the mine in an effort to arrest subsidence movements.
- The IDNR estimates the grouting process will start in early April.

Any statements beyond these facts are pure speculation at this time.

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