



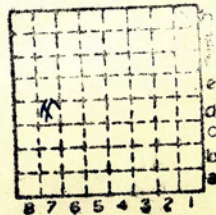
Form 180

R - F

little oak. cc

S 17

226



Sec. 18

T.	1	N.
R.	Y	W.

Index No.

Mine Index

MI 203



Mine originally operated by: (1)

Date 1904 **LITTLE OAK COAL CO.**

Original name or number:

Illinois Coal Report p. **MORGAN**

LATER OPERATORS

Date	Operator	Name or No.
2 1910	SOUTHERN COAL+M'G CO. No. 7	"LITTLE OAK"
8 1940	St. Clair Southern Coal Corp.	Little Oak
4 1940 ^{Dec}	St. Clair Co. Coal Co.	- Little Oak Mine
5 1943 Sept	Mascoutah Coal & Mining Co	Little Oak
6 1945 July	Oak Coal Co	" "
7		
8		
9		
10		
11		
12		
13		
14 (1948)		

1946 OK

* Also owners

#See ownership sheet

Railroad, Wagon, Idle, Abandoned **Shaft**

SOUTHERN R.R.

IDENTIFICATION

County No. **226**

Coal No.

□ **6**

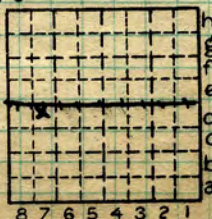
Quad. **Belleville**

(1948)

Part **9**

6'6"

County **ST CLAIR**



Sec. **18**

T. **1 N.**

S.

R. **7 W.**

Index No.

S-17

COAL MINE OPERATOR



(Sheets) COAL PRODUCTION (Sheet)

Period							Tons	
No.	Mo.	Day	Year	Mo.	Day	Year		
	1	1	B4	12	31	34	151	779
	1	1	35	02	31	35	204	551
17	1	1	1936	12	31	1936	206	941
17	1	1	1937	12	31	1937	186	603
S-17	1	1	1938	12	31	1938	125	790
						1939	6	299
						{ 1940 }	7	227
S-17	1	1	1941	12	31	1941	6	658
N-1	1	1	1942	12	28	1942	3	263
						1943	16	487
	7					1944	109	125
	7	1	1945	12	-31-	1945	75	894 122,962
						1946	161	482
						1947	156	213
						1948	106	869

SUMMARIES

No.	to	No.		
1934	-	1933	4.	703 922

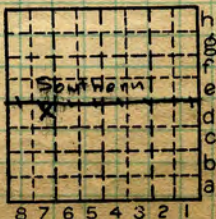
Railroad, Wagon, Idle, Abandoned

IDENTIFICATION

County No. 226 Coal No. 6

Quad. Belleville Part 9

County ST CLAIR



Sec. 18

T. 1 N.

R. 7 W.

Index No.

COAL MINE-PRODUCTION



LOCATION AND ELEVATION

Location: **S** side **Southern** R. R.
 side R. R.
 side Highway No.

on top. map **226** Location sheet **13-87-426**

Elevation: Method, 1. Est. () ft.
 2. Inst. (kind **Plane table**) **520.2** ft.

By _____ Data sheet _____
 DEPTH
 Authority **G.H.C** To coal **128** ft.
 Authority _____ Rail to rail _____ ft.
 Top of coal above rail. (Est. Rule) _____ ft.
 To coal **398.6** ft.

ALTITUDE OF TOP OF COAL
 By estimated data _____
 By instrumental data _____ ft.

Thickness
 Max. **108** in. Min. **66** in. Aver. **78** in.

GEOLOGICAL DATA

Mine notes, date **1918** **1921** _____

 Coop No. **203** Pyr. inv. Coal Ash inv. _____

CHEMICAL DATA

Analyses Face	U. I. (6) 1254-2-3-4-5-6	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:—

Railroad, Wagon, Idle, Abandoned

IDENTIFICATION

County No. **226**
 Quad. **Belleville**
 County **St Clair**

Coal No. **6**

 Part **9**



Sec. **18**
 T. **1** N.
 R. **7** W.
 Index No.

COAL MINE LOCATION AND DATA

5510-7d



Mine Name or No., **Little Oak or No 7**
4 mile **SNW** from **Belleville**
Operator, 191 **Southern Coal Coke & Mg Co**
Operator, 191



Entrance **Shaft** Elev., **522** ft. (above,
Depth to ~~###~~ coal, **124** ft. Alt. **398**
top SURFACE DATA.

- A. Topography, See
- B. Surficial materials. (1) Character,
- (2) Thickness, (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc.

- C. Outcrops, (1) Character, See
- (2) Structure, See
- (3) Fossil horizons, See
- Collection No., See
- (4) Evidences of subsidence, See
- D. Note collection of mine maps, drill records and shaft logs.

See drill record sheet,

E. Notes on surrounding area,

See

Coal bed name: Local, Survey No. **6**
Collector, **Cady** **Sept 10, 1918**
Mine, **Little Oak** **Co. St Clair** Index No. **0813a**
L.—SURFACE SHEET (Geol.) **7d**



INDEX

E-K

The roof conditions in this mine are very similar to those in other mines in the Belleville district. The cap rock and black slate and clod is present in the same way. The coal itself differs somewhat in not having the several benches so well differentiated possibly as in the other mines visited. However the coal is dirty because of the dirt or clay and sulphur streaks found principally at the blue band and between what is possibly the equivalent of the block and drift coal. The clay streak above the 4-inch is also very persistent.

Of special interest is the manner in which the coal apparently consistently thickens towards the "swales" or low places in the mine. As the coal thickens the black slate invariably comes in above it. At one place a total drop of about 12 feet was accompanied by a thickening of from about 6'8" to about 9 feet, the black slate also coming to a thickness of 4 to 5 feet at least. This seems to be the common relationship all over the mine.

Slips, probably shrinkage slips, are quite common. They are of the usual type and the coal may be off-set along them as much as two feet.

The black slate shows the effect of adjustment between the coal and caprock as it is very full of slips. It contains numerous concretions, and in places a lense of limestone up to 1' thick forming a false roof. At one place a lens of limestone apparently lies in the coal, or is overlain by a thin layer of coal which unites with the main coal bed in the manner of a "roll"

Collector Cady Sept 16, 1918

Mine Little Oak Co. St Clair

Coal: Survey No. 6

Index No.

0818a

X.—EXTRA SHEET No.



K. (5) Physical character of coal in benches,

(a) Relative hardness, **Top coal best coal. Other benches contain considerable dirt.**

(b) Lustre,

(c) Fracture,

(d) Texture,

See

(6) Impurities in coal, other than bedded,

(a) Kind, **Little clay and some pyrite in slips**

(b) Position and persistence,

(c) Rejected, **Yes**

Ease of separation,

See

L. Floor: (1) Material,

Fire clay

(2) Thickness,

About 1 foot

(3) Variation,

(4) Note character, condition, tendency to heave, relation to undercutting commercial value.

Heaves a little. Does not give much trouble

See

(5) Clay sample No.

Location,

M. Stratigraphy,

(1) Fossiliferous horizons underground,

Collection No.

Location,

N. Notes on effect of deep drilling in coal mine areas.

See

Collector, **Cady Sept 10, 1918**
 Mine, **Little Oak Co. St Clair**
 N.—UNDERGROUND SHEET (Geol.)

Coal: Survey No. **6**
 Index No. **0818a**



Symbol	Description	Inches
	Room 15 10th east off north	
	Coal	29 $\frac{1}{2}$
	Clay band	29 $\frac{1}{2}$
	Coal with sulphur and clay bands	29 $\frac{1}{2}$
	Blue band	1 $\frac{1}{2}$
	Coal	21

(Scale: 1 division = 3 inches).

Sample No.

Can No.

Lab. No.

Collector, Cady Sept 10. 1918

Coal: Survey No. 6

Mine, Little Oak Co. St Clair

Index No.

0818a

Q.—COAL SECTION SHEET.



Symbol Description Inches

Room 17, 4th east off south, east side

Rock roof.

1	Coal	12	
2	Clay		4
3	Coal	15	
4	Clay and sulphur		1 1/2
5	Coal with streak of mother coal	12	
6	Bone		1 1/2
7	Coal	11	1 1/2
8	Clay and sulphur		1 1/2
9	Coal	3	1 1/2
10	Blue band	1	
11	Coal	15	1 1/2

Floor: Fire clay

71 3/4

(Scale: 1 division = 3 inches).

Sample No.

Can No.

Lab. No.

Collector, Cady Sept 16 1918

Coal: Survey No. 6

Mine, Little Oak Co. St Clair

Index No. 0818a

Q.—COAL SECTION SHEET.



Symbol	Description	Inches
	Room 50 Main west entry	
	Roof: Black slate 2' Rock above	
	1 Coal	13
	2 Sulphur	1
	3 Coal	15 $\frac{1}{2}$
	4 Clay	2 $\frac{1}{2}$
	5 Coal	2
	6 Sulphur plate	1 $\frac{1}{8}$
	7 Coal	10
	8 Sulphur plate	1
	9 Coal	12 $\frac{1}{2}$
	10 Clay and bone	2
	11 Coal	4
	12 Blue band	1 $\frac{1}{2}$
	13 Coal	16 $\frac{1}{2}$
	Floors: Fire clay	
		77 3/8

(Scale: 1 division = 3 inches).

Sample No.

Can No.

Lab. No.

Collector, Cady Bept 10 1918

Coal; Survey No. 6

Mine, Little Oak Co. St Clair

Index No. 0818a

Q.—COAL SECTION SHEET.



Symbol Description Inches

Room 38 off 1st east off main north

Roof: rock

- | | |
|-------------------|---------|
| 1 Coal | |
| 2 Pyrite | |
| 3 Coal | 15 1/16 |
| 4 Clay and pyrite | 1 1/2 |
| 5 Coal | 19 1/2 |
| 6 Clay | 1/2 |
| 7 Coal | 4 |
| 8 Blue band | 1 |
| 9 Coal | 22 |
| | 17 3/4 |

Tape 6' 8"

(Scale: 1 division = 3 inches).

Sample No.	Can No.	Lab. No.
Collector, Cady Sept 10, 1918		Coal: Survey No. 6 <input type="checkbox"/>
Mine, Little Oak	Co. St Clair	Index No. 0818a



Symbol	Description	Inches
	Room 6 off the 4th north off east	
	Roof. Black slate 2 below caprock	
	1 Coal	14
	2 Clay parting	
	3 Coal	17
	4 Clay parting	$\frac{1}{2}$
	5 Coal	25 $\frac{1}{2}$
	6 Clay parting	$\frac{1}{2}$
	7 Coal	3
	8 Blue band	1
	9 Coal	2 $\frac{1}{2}$
		<hr/>
	Tape 7.3 feet	86

(Scale: 1 division = 3 inches).

Sample No.

Can No.

Lab. No.

Collector, Cady Sept 10, 1918

Coal: Survey No. 6

Mine Little Oak

Co. St Clair

Index No. 0818a

Q.—COAL SECTION SHEET.



Symbol	Description	Inches
Room 9 off the 3rd north off east		
Roof: black slate 2-3' below caprock		
1	Coal	14
2	Clay parting	
3	Coal	9½
4	Clay streak	
5	Coal	25
6	Clay streak, sulphur in places	½"
7	Coal	13 3/4
8	Clay	1
9	Coal	3
10	Blue band	1½
11	Coal	3½
Floor: fire clay		
<p>In places there is a streak of pyrite about ½" below the blue band which will run from ¼ to 1 inch thick More commonly nearer ¼ than 1"</p>		

(Scale: 1 division = 3 inches).

Sample No. _____ Can No. _____ Lab. No. _____
 Collector, Gady Sept 10, 1918 Coal: Survey No. 6
 Mine, Little Oak Co. St Clair Index No. 0818a
 Q.—COAL SECTION SHEET.



PYRITE

GEOLOGICAL OCCURRENCE

See
Extra
Sheet
No.

1. Manner

Pyrite occurs as plates between the various benches. Just below Bl bnd, 3" above blue band and between block and drift especially. There are a few sulphur balls in top coal.

2. Size of Masses

Commonly about $\frac{1}{2}$ " - $\frac{1}{2}$ " thick, many an inch thick and a few 2". Rarely more except balls

These 2-3" thick. Plates 8-20" across

3. Measurements to determine amount

No.	Location in mine	1		2		3		4		5		Total		Px3	P %
		C	P	C	P	C	P	C	P	C	P	Coal	Pyrite		
1	Rm 9 3rd northeast											100	$\frac{1}{2}$	3/4	.75
2	Rm 11 4th NE	108	$\frac{1}{2}$	$\frac{1}{2}$		0		$\frac{1}{2}$				504	$1\frac{1}{8}$	3.4	.60
3	Face 4th N-E	08	1	1		$\frac{1}{2}$		$1\frac{1}{2}$				2504	5.7	17.	1.0
4	Rm 6 4th N-E	84	$3/4$	0		0		0		0		420	.7	2.	.5
5	Rm 38 1st E off N	80	1	$\frac{1}{2}$		1		2		$\frac{1}{2}$	0	560	4.7	14.	2.5
6	Rm 35 Main east	73	$3/4$	$\frac{1}{2}$		$\frac{1}{2}$		0		0	$\frac{1}{2}$	2511	3.6	10.	2.
7	Rm 51 Main west	77	$\frac{1}{2}$	2		$3/4$		$\frac{1}{2}$		1		385	4.2	12.	64.
8	Rm 17 4th E-S - E	74	0	$1/16$		$\frac{1}{2}$		$\frac{1}{2}$		0	0	518	.7	2.1	.15
9	Face 6th S	72	$1\frac{1}{2}$	$\frac{1}{2}$		0		0		$3/4$	0	504	3.2	9.	61.8

4. Notes

See X #1

Total Average 13.26

General average of pyrite about $\frac{1}{4}$ " over the mine. Less under black slate than rock.

5. Samples.

Coal thinner under rock

Label No.	Location in mine	Analyses, etc.
-----------	------------------	----------------

C - 18 - 98 Typical pyr.

6. Notes

Collector Cady Date Sept 10. 19 Coal No. 6
 Operator So, C C & Mg Co No. 52
 Mine Little Oak No. 7 Index No. 0818a
 Y-PYRITE SHEET (1)



INDEX

3 Additional measurements of pyrite

	Coal Pyrite										%
Face 10 E Mn S	78	$\frac{1}{4}$	$\frac{1}{4}$	0	0	$\frac{1}{4}$	0	468	.75	2.2	.4
Rm15 10 E off N	78	Aver				$\frac{1}{8}$	78	.12	1.3	1.4	
Rm14 10 E off S	78	$\frac{1}{4}$	0	0	1	0	390	1.25	3.7	1.	
Face main south	80	0	0	$\frac{1}{8}$	1	$\frac{1}{2}$	400	1.62	4.8	.9	
2nd southwest	80	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$	1	1	400	4	12	3	
Rm53 Main west	74	$\frac{1}{4}$	$\frac{1}{4}$	0	1	$\frac{1}{2}$	444	2.5	7.5	1.6	
Rm4 off 7 N-W	80	0	1	0	1	$\frac{1}{2}$	480	4.25	12.7	2.5	
Rm 9 7 N - W	78	$\frac{1}{4}$	$\frac{1}{4}$	0	0	$\frac{1}{4}$	546	2	6	1.	
Rm25 3rd North	80	0	$\frac{1}{4}$	$\frac{1}{4}$	0	$\frac{1}{2}$	560	2	6	1	
Rm28 3rd North	80	$\frac{1}{4}$	0	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{2}$	560	1.75	5.2	.9	
										12.7	
										Aver	1.3

Average of the first ten on main sheet 1.4

Collector Cady Sept 10, 1918
 Mine Little Oak Co. St Clair
 X.—EXTRA SHEET No. Pyrite

Coal: Survey No. 6
 Index No. 0818a



PYRITE RECOVERY

See
Extr
Shee
No.

7. Method of rejection of pyrite **Pyrite plates trown out by**
 (1) In mine miner **Not well cleaned. Only larger pieces recovered**
 (2) Per cent rejected **Much less than 1%.**
 (3) At tippie **Little by trimmers**
 (4) Per cent rejected **Very small. Could be larger**
8. Per cent of pyrite in rejected lumps **In plate sulphur nearly clean material. 90% or more. Good stuff**
9. Possible daily production of pyrite **Coal produced 1500 tons**
1% would be 15 tons, probably about half of this amount recoverable 5 to 7 tons
10. Possibility of future production **Fair if price is right**
11. Pyrite ever cleaned and shipped? **No**
 (1) Method
 (2) How loaded
 (3) Consignee
 (4) Price F. O. B. cars
12. Washing: Daily tonnage of refuse
 (1) Maximum size
 (2) Pyrite in refuse, per cent:
 (3) Samples. No.
 (4) Sulphur samples. No.
 (5) Conditions of recovery
13. General conclusion as to pyrite recovery **Fairly good. Pyrite rather badly shot up**

Collector **Cady** Date **Sept 10 1918** Coal No. **6**

Operator **So O C & Mg Co** No. **52**

Mine **Little Oak #7** Co. **St Clair**

Index No. **08180**

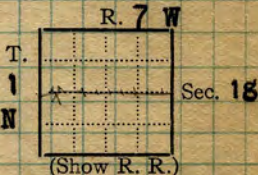
Z PYRITE SHEET (2)



Town, **Belleville (4 miles NW of)** Surface alt., **522** ft.
 Local Authority, **W.F. Davis, Gen'l** Depth to coal, **124** ft.
Supt. Southern mines Alt. top coal, **398** ft.
 Level: Auth., **Cady. Est from top.** Thickness: Av. **78** in.
 Max. **108** in., Min. **66** in.

map in field
 Method, **Estimated from top map**

R. R., **Southern**



Location: authority, **See map of Belleville N**
quadrangle

Operator

Mine Name or No.

19 Southern Coal Coke and Mining Co No. 7 (Little Oak)

Successor to

Date

Succeeded by

Date

Succeeded by

Date

PRODUCTION.

	U. S. No.
19 About 1600 tons; recently raised 1900	

GEN'L COAL REPT.

Geol. Notes? **Yes** Coop. No. Coal secs? **Yes**
 Analyses No.

Examined by **G.H. Cady Sept 10, 1918**

Ref.

Coal bed name: Local **SHIPPING MINE**
 County **St Clair**

Survey No. **6**
 Index No. **0818a**

K.—ACTIVE SHIPPING OR LOCAL COAL MINE.



2107C

Town, *Ballerville*
 Local Authority, *Merrill (Engineer)*
 Level: Auth.,

Surface alt., *520* ft.
 Depth to coal, *140* ft.
 Alt. top coal, *380* ft.
 Thickness: Av. *78* in.
 Max. *120* in., Min. *60* in.

Method, *Topog map.*

R. R., *Southern R.R.*



Location: authority,

Operator

Mine Name or No.

Southern Coal, Coke & Mining Co. Little Oak

19 *21*

Successor to

Date

Succeeded by

Date

Succeeded by

Date

PRODUCTION.

							U. S. No.
19			1800				

Geol. Notes? *Yes*

Coop. No.

Coal secs? *6*

Analyses No.

GEN'L COAL REPT. 220

Examined by *Netzband & Wilson*

Ref. *Loose leaf*

Coal bed name: Local

SHIPPING MINE

Survey No. *#6*

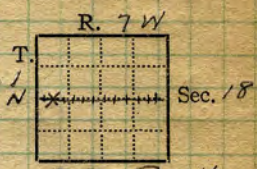
County *St. Clair*

Index No. *0818.1A*

K.—ACTIVE SHIPPING OR LOCAL COAL MINE.



Mine Name or No., *Little Oak*
mile from
Operator, 19*21* *Southern Coal, Coke & Oil Mining Co*
Operator, 191



Entrance, *shaft* Elev., *520* ft. *above,* *sea level*
140 ft. *below,* *380*
Depth to bottom coal, *140* ft. Alt. *380*

SURFACE DATA.

- A. Topography, *Rolling* See
- B. Surficial materials. (1) Character, *Glacial till.*
- (2) Thickness, *No information*
- (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc. *No information.*

- C. Outcrops, (1) Character, See
- (2) Structure, See
- (3) Fossil horizons, See
- Collection No., See
- (4) Evidences of subsidence, See
- D. Note collection of mine maps, drill records and shaft logs.

See drill record sheet,

E. Notes on surrounding area,

See

Coal bed name: Local, Survey No. *26*

Collector, *Netzeband & Wilson*

Mine, *Little Oak* Co. *St. Clair* Index No. *0818-14*



K. (5) Physical character of coal in benches,

(a) Relative hardness,

(b) Lustre, *Most coal bright, some streaks of glaucous*(c) Fracture, *Hackly*(d) Texture, *Laminated*

See

(6) Impurities in coal, other than bedded,

(a) Kind, *Pyrite lenses, plates of calcite*(b) Position and persistence, *Pyrite lenses in very top of or just above top coal.*(c) Rejected, *Yes*Ease of separation, *Does not separate easily.*

See

L. Floor: (1) Material, *Fire clay*(2) Thickness, *2'-6"*

(3) Variation,

(4) Note character, condition, tendency to heave, relation to undercutting commercial value. *Has tendency to heave when wet.*

See

(5) Clay sample No.

Location,

M. Stratigraphy,

(1) Fossiliferous horizons underground,

Collection No.

Location,

N. Notes on effect of deep drilling in coal mine areas.

See

Collector, *Netzeband & Wilson*Coal: Survey No. #6 Mine, *Little Oak* Co. *St. Clair*Index No. *0818.1A*



Operator, *Southern C, C, & Mining Co* Date *May 4, 1921*
 Mine, *Little Oak* Sec. *18 T. 1N R. 7W.*
 Located, *3000'* miles from *bottom*
 Location in mine, *4th N.E. entry Room 23*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			Coal Roof	
		1	Coal	10
		2	Sulfur	$\frac{1}{4}$
		3	Coal	8
		4	Sulfur	$\frac{1}{8}$
		5	Coal	$2\frac{1}{2}$
		6	Charcoal	$\frac{1}{4}$
		7	Coal	3
		8	Charcoal	$\frac{1}{4}$
		9	Coal	$\frac{1}{4}$
		10	Clay mixture	$3\frac{3}{4}$
		11	Coal	1
		12	Sulfur	10
		13	Coal	$\frac{1}{8}$
		14	Clay	8
		15	Coal	2
		16	Blue band	7
		17	Coal	$\frac{1}{8}$
		18	Sulfur	8
		19	(Note character and thickness of floor) Coal	$28\frac{1}{2}$
			Total thickness of coal.	91 $\frac{1}{2}$
Condition, <i>As mined</i>		Time,	hr. <i>45 min.</i>	
Wt. Gross, <i>25 lbs.</i>		Net,	lbs.	
What Nos. shipped by Co.?		<i>1, 3, 5, 7, 9, 11, 13, 15, 17, 19</i>		
Excluded from sample: No. <i>10, 12, 16</i>				
Sample represents		<i>82 $\frac{1}{4}$ in.</i>	tons.	
Impurities? How do they occur?		<i>Some bedded, pyrite a.s. + lenses.</i>		

Sample No. _____ Can No. *N-21-4* Lab. No. *12541*
 Collector, *Netzeband & Wilson* Coal: Survey No. *#6*
 Mine, *Little Oak* Co. *St. Clair* Index No. *0818.14*
 R.—COAL SAMPLE SHEET.



Operator, *Southern C. C. + Mining Co* Date *May 4, 1921*
 Mine, *Little Oak* Sec. *18* T. *1 N* R. *7 W*
 Located, *2800'* miles from shaft
 Location in mine, *Main East Entry (face)*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)	
In.	No.	No.	(Note character and thickness of roof) Inches
			<i>Limestone</i>
			<i>Slate Roof 3" clod.</i>
		<i>1</i>	<i>Coal</i>
		<i>2</i>	<i>Clay mixture</i>
		<i>3</i>	<i>Coal</i>
		<i>4</i>	<i>Shale + sulfur</i>
		<i>5</i>	<i>Coal</i>
		<i>6</i>	<i>Charcoal</i>
		<i>7</i>	<i>Coal</i>
		<i>8</i>	<i>Sulfur</i>
		<i>9</i>	<i>Coal</i>
		<i>10</i>	<i>Clay + sulfur</i>
		<i>11</i>	<i>Coal</i>
		<i>12</i>	<i>Blue band</i>
		<i>13</i>	<i>Coal</i>
		<i>14</i>	<i>Sulfur</i>
		<i>15</i>	<i>Coal</i>
			<i>Tap 77"</i>
			<i>Fire clay</i> (Note character and thickness of floor)
			Total thickness of coal.
			<i>79 1/2</i>
Condition, <i>As mined</i>		Time,	hr. <i>40 min.</i>
Wt. Gross, <i>20 lbs.</i>		Net,	lbs.
What Nos. shipped by Co.?		<i>1, 3, 5, 7, 9, 11, 13, 15</i>	
Excluded from sample: No.		<i>4, 8, 10, 12 (4")</i>	
Sample represents		<i>73</i>	in. tons.
Impurities? How do they occur?		<i>Some bedded - pyrite as lenses.</i>	

Sample No. _____ Can No. *N-21-5* Lab. No. *12542*
 Collector, *Netzeband & Wilson* Coal: Survey No. *#6*
 Mine, *Little Oak* Co. *St. Clair* Index No. *0818.14*
 R.—COAL SAMPLE SHEET.



Operator, *Southern C. & Mining Co.*, Date *May 4, 1921*
 Mine, *Little Oak* Sec. 18 T. 1 N R. 7 W
 Located, *3900'* miles from *shaft*
 Location in mine, *5th S.E. (face)*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			<i>Limestone</i>	
			<i>Shale 3" (roof) clod</i>	
		<i>1</i>	<i>Coal</i>	<i>16</i>
		<i>2</i>	<i>Charcoal</i>	<i>1/2</i>
		<i>3</i>	<i>Coal</i>	<i>11</i>
		<i>4</i>	<i>Clay mixture</i>	<i>1/4 - 1/2</i>
		<i>5</i>	<i>Coal</i>	<i>3</i>
		<i>6</i>	<i>Charcoal</i>	<i>1/8</i>
		<i>7</i>	<i>Coal</i>	<i>11</i>
		<i>8</i>	<i>Clay mixture</i>	<i>1/4</i>
		<i>9</i>	<i>Coal</i>	<i>13 1/2</i>
		<i>10</i>	<i>Sulfur</i>	<i>1/4</i>
		<i>11</i>	<i>Coal</i>	<i>7 1/2</i>
		<i>12</i>	<i>Blueband</i>	<i>2</i>
		<i>13</i>	<i>Coal</i>	<i>21</i>
			<i>Tap 81"</i>	
			(Note character and thickness of floor)	
			Total thickness of coal.	
		Condition, <i>As mined</i>	Time, hr. <i>40 min.</i>	
		Wt. Gross, <i>20 lbs.</i>	Net, lbs.	
		What Nos. shipped by Co.?	<i>1, 3, 5, 7, 9, 11, 13</i>	
		Excluded from sample: No. <i>12</i>		
		Sample represents <i>79</i> in.	tons.	
		Impurities? How do they occur? <i>Some bedded-pyrite as lenses.</i>		

Sample No. _____ Can No. *N-21-6* Lab. No. *12543*
 Collector, *Netzband & Wilson* Coal: Survey No. *#6*
 Mine, *Little Oak* Co. *St. Clair* Index No. *0818-14*
 R.—COAL SAMPLE SHEET.



Operator, *Southern C, C & Mining Co* Date *May 4, 1921*
 Mine, *Little Oak* Sec. *18* T. *1N* R. *7W*
 Located, *4500* miles from shaft
 Location in mine, *Main West Room 63*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)	
In.	No.	No.	Inches
		Shale Roof	
	1	Coal	10 $\frac{1}{2}$
	2	Sulfur	$\frac{1}{4}$
	3	Coal	17
	4	Clay	$\frac{1}{2}$
	5	Coal	7 $\frac{1}{2}$
	6	Sulfur + bone	$\frac{1}{2}$
	7	Coal	7
	8	Sulfur	$\frac{1}{4}$
	9	Coal	8 $\frac{3}{4}$
	10	Charcoal	$\frac{1}{4}$
	11	Coal	7 $\frac{3}{4}$
	12	Clay	$\frac{1}{4}$
	13	Coal	3 $\frac{1}{2}$
	14	Blue band	1 $\frac{1}{2}$
	15	Coal	4
	16	Charcoal	$\frac{1}{2}$
	17	Coal (Wat)	17
		Tape 79" (Note character and thickness of floor)	
		Total thickness of coal.	
Condition, <i>As mined</i>		Time, hr. <i>40</i> min.	
Wt. Gross, <i>20</i> lbs.		Net, lbs.	
What Nos. shipped by Co.?		<i>1, 3, 5, 7, 9, 11, 13, 15, 17</i>	
Excluded from sample: No. <i>4, 6, 14</i>			
Sample represents <i>76 $\frac{1}{2}$</i> in.		tons.	
Impurities? How do they occur? <i>Some bedded - Pyrite as lenses.</i>			
Sample No.	Can No. <i>N-21-7</i>		Lab. No. <i>12544</i>
Collector, <i>Netzeband & Wilson</i>	Coal: Survey No. <i>#6</i>		<input type="checkbox"/>
Mine, <i>Little Oak</i>	Co. <i>St. Clair</i>		Index No. <i>0818.14</i>



Operator, *Southern C, C & Mining Co* Date *May 4, 1921*
 Mine, *Little Oak* Sec. *18* T. *1N* R. *7W*
 Located, *4200* miles from *shaft*
 Location in mine, *359 N.W. Entry*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			<i>Limestone</i>	
			<i>Shale roof 1"</i>	
	<i>1</i>		<i>Coal</i>	<i>25</i>
	<i>2</i>		<i>Charcoal</i>	<i>1/2</i>
	<i>3</i>		<i>Coal</i>	<i>5 1/2</i>
	<i>4</i>		<i>Sulfur</i>	<i>1/8</i>
	<i>5</i>		<i>Coal</i>	<i>4 1/2</i>
	<i>6</i>		<i>Sulfur</i>	<i>1/8</i>
	<i>7</i>		<i>Coal</i>	<i>3 1/2</i>
	<i>8</i>		<i>Sulfur + clay</i>	<i>1/2</i>
	<i>9</i>		<i>Coal</i>	<i>5</i>
	<i>10</i>		<i>Sulfur</i>	<i>1/8</i>
	<i>11</i>		<i>Coal</i>	<i>12</i>
	<i>12</i>		<i>Blue band</i>	<i>2</i>
	<i>13</i>		<i>Coal</i>	<i>2 1/2</i>
			<i>Tap 77"</i>	
			(Note character and thickness of floor)	
			Total thickness of coal.	
Condition, <i>As mined</i>		Time, hr. <i>40</i>	min.	
Wt. Gross, <i>26</i> lbs.		Net, lbs.		
What Nos. shipped by Co.?		<i>1, 3, 5, 7, 9, 11, 13</i>		
Excluded from sample: No. <i>8, 12</i>				
Sample represents <i>7 1/2</i> in.		tons.		
Impurities? How do they occur?		<i>Charcoal + clay bedded, pyrite as lenses.</i>		

Sample No. _____ Can No. *N-21-8* Lab. No. *12545*
 Collector, *Netzeband & Wilson* Coal: Survey No. *#6*
 Mine, *Little Oak* Co. *St. Clair* Index No. *0818.14*
 R.—COAL SAMPLE SHEET.



Operator, *Southern C. C. & Mining Co* Date *May 4, 1921*
 Mine, *Little Oak* Sec. *18 T. 1N R. 7W*
 Located, *2500* miles from shaft
 Location in mine, *Main South (face)*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			<i>Limestone</i>	
			<i>Shale roof (2')</i>	
	<i>1</i>		<i>Coal</i>	<i>13</i>
	<i>2</i>		<i>Sulfur</i>	<i>1/8</i>
	<i>3</i>		<i>Coal</i>	<i>10 1/2</i>
	<i>4</i>		<i>Charcoal</i>	<i>1/2</i>
	<i>5</i>		<i>Coal</i>	<i>7</i>
	<i>6</i>		<i>Clay + sulfur</i>	<i>1/4</i>
	<i>7</i>		<i>Coal</i>	<i>14</i>
	<i>8</i>		<i>Sulfur</i>	<i>1/4 - 1/2</i>
	<i>9</i>		<i>Coal</i>	<i>4 3/4</i>
	<i>10</i>		<i>Sulfur</i>	<i>1/4</i>
	<i>11</i>		<i>Coal</i>	<i>8 1/2</i>
	<i>12</i>		<i>Sulfur</i>	<i>1/4 - 1/2</i>
	<i>13</i>		<i>Coal</i>	<i>4</i>
	<i>14</i>		<i>{ Blueband (Clay + sulfur)</i>	<i>1</i>
	<i>15</i>	<i>4"</i>	<i>{ Coal</i>	<i>2 1/4</i>
	<i>16</i>		<i>{ Sulfur</i>	<i>1/2</i>
	<i>17</i>		<i>Coal</i>	<i>2 1</i>
			(Note character and thickness of floor)	
			Total thickness of coal.	

Condition, *As mined* Time, hr. *45* min.

Wt. Gross, *22* lbs. Net, lbs.

What Nos. shipped by Co.? *1, 3, 5, 7, 9, 11, 13, 17*

Excluded from sample: No. *14, 16*

Sample represents *83 1/2* in. tons.

Impurities? How do they occur? *Charcoal + clay bedded, pyrite as lances.*

Sample No. Can No. *N-21-9* Lab. No. *12546*

Collector, *Netzeband & Wilson* Coal: Survey No. *#6*

Mine, *Little Oak* Co. *St. Clair* Index No. *0818.14*

R.—COAL SAMPLE SHEET.

LITTLE OAK C.C.

SHILOH, ILL.

Notes by ROLF W. ROLEY
Jan. 30, 1947

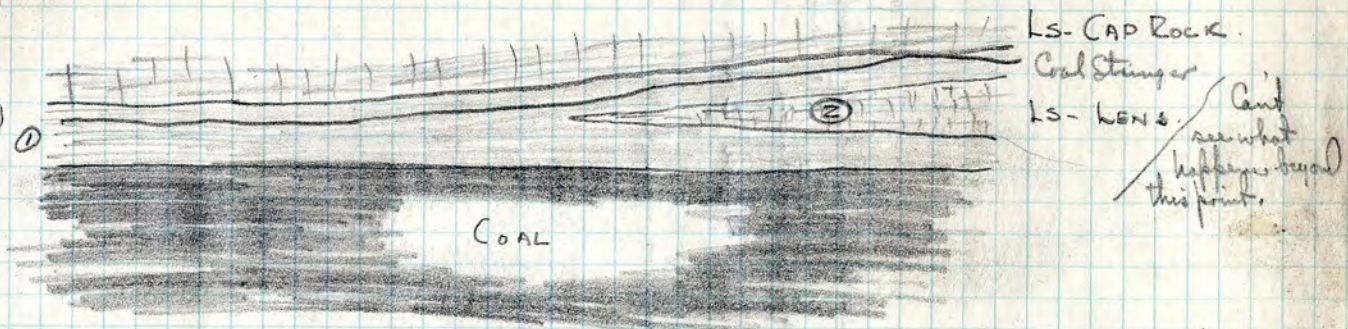
IN-7W ?
St. Clair County

Old works show.

Rooms - x cuts & cuts down 35-40' wide - no
evidence of subsidence or falls.

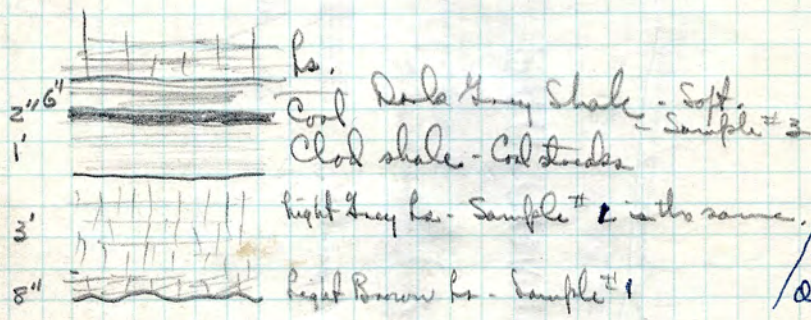
Ordinarily when black slate comes in the ls. is worse breaking
away in slabs of dog patches and shelling off - Under the
slate is usually a bed of fine coal - even when bed the ls. is
very good and all work is being done without timbering.

Jan 30, 1997



- ① Dark gray to black slate, slipped & jointed.
Coal streaks in the shale = 1/2" thick.
- ② ls. off. inland - looks like lens.

~~Sample 1~~ - not sampled
Sample 2



Can't
tell the
difference

The ls goes down into slaty material in many places. And slate has fossil material. Some coral streaks in the lower zone of ls & shale. See Sample

Top is exceptionally good & uniform.

Backfilling of Mine for WalMart Store Site - Belleville, Illinois (2006-2007) notes by Bob Bauer

The entire store site of a proposed WalMart located on the NE corner of North Green Mound Road and Carlyle Avenue (Rt 161) in Belleville, Illinois has had the coal mine below it backfilled before construction of the store. The Oak Coal Company, Little Oak mine is located about 100 feet underground at this site. The area backfilled is about 3 acres.

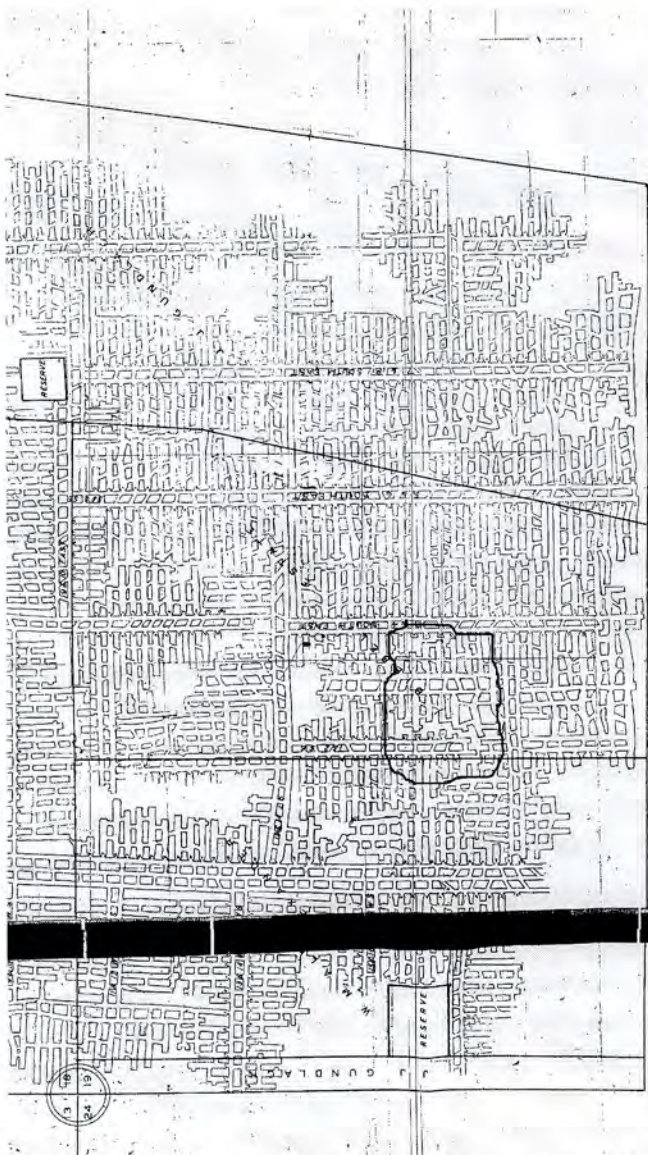
The outside barrier backfill is sand and flyash with a 5 to 7 inch slump. It has a 200 psi strength and was pumped into 88 barrier boreholes. The barrier was placed in 350 cubic yard lifts and let set between lifts. The infill is sand and flyash – flowable fill with a 150 foot run out. It was placed under 600 psi pressure into about 129 boreholes. The flyash is Class F from a settling pond at the Wood River plant. The void space was calculated as 53,000 cubic yards. Total fill placed in the void is 51,000 cubic yards.

The mine panel tilts down dip to the NW. The barrier was left open in the north part and infilling was started from the SE corner so that any water in the mine would be forced north, down dip into the mine.

The flyash and sand were mixed on site at a small batch plant and pumped through about 4 inch metal pipe then through 4 inch flexible pipe that was placed down the boreholes to add the grout using the tremie method. A tractor with a bucket was used to raise and lower the flexible pipe. The grout was brought up the entire borehole to the ground surface.

Drilling took place in several locations to test for completion of grouting. All test holes showed no tool drop.

Total cost of the backfilling project is \$3.5 million.



OAK COAL CO.

SOUTHERN COAL COKE AND MINING CO.

MARSHALL COUNTY, WEST VIRGINIA

LITTLE OAK MINE

SECTION 18 TOWNSHIP 1 NORTH RANGE 7 WEST ST. CLAIR CO.

Figure above shows two pieces of mine map and outlined area where backfilling has taken place. North to left.