



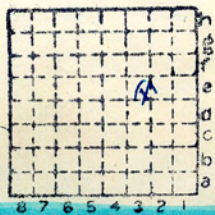
Form 180

R F

So Coal, Coke & PC

225

MI #19 Mine Index



Sec. 17

T.	1	N
R.	7	W.

Index No.



**Belleville**

Town, **Shiloh - Sh. Pt.**

Local Authority,

Surface alt., **470.8** ft.

Depth to coal, **121** ft.

Alt. top coal, **349.8** ft.

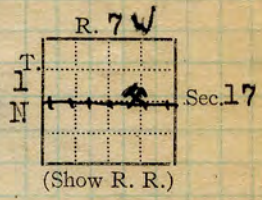
Level: Auth., **W.B.R. (1930)**

Thickness: Av. **84** in.

Max. **90** in., Min. **72** in.

Method, **Plane Table**

R. R., **S.**



Location: authority, **WBR (1930)**  
**So. C. C. & Mg. Co.**  
**Breese Quad.**

Mine Name or No.

*open 1902  
idle since 1930*

Operator

*with coal take using*  
**So. C., C. & M. Co.**

**(Shiloh) No. 8 A**

**710 Security Bldg. St. Louis**

✓ 19

Successor to

Date

Succeeded by

Date

Succeeded by

Date

**PRODUCTION.**

U. S. No.

19									
	<b>726,280</b>	<b>2800</b>	<b>T cap</b>						
	<b>1927</b>	<b>146</b>	<b>928</b>						
	<b>1928</b>								

**1930 #22**

**38**

**GEN'L COAL REPT. 225**

Geol. Notes? **Yes** Coop. No. **79** Coal secs.? **6**

Analyses No. **5056-57-58-59 U.S. 3910**

**1650 U.S. 3912, U.S. 4364, 993, 14856-7-8-2+60-1**

Examined by **14862-3-4-5-6** Ref.

Coal bed name: Local **SHIPPING MINE**

Survey No. **6**  
Index No. **0817. E3**

County **St. Clair**  
K.—ACTIVE SHIPPING **COAL MINE.**

**idle 1929-30 IDLE**



COAL MINE NOTES.

0817

COUNTY *St Clair*

TOWN *Belleville*

MAP No. *0917*

T. *14*

R. *7W*

S. *17 E of centre*

OPERATOR *Southern Coal & Mining Co.*

OFFICE *Security Bldg. St Louis*

MINE *#8.*

TIPPLE *Steel.*

ENGINES

BOILERS

DRUM

SHAFT

CAGE

HAULAGE *Mule*

CARS *Wood 4000 to 4500 lbs capacity.*

VENTILATION *Fan, forcing.*

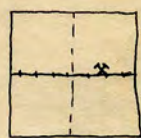
DRAINAGE *Very little water*

SPRINKLING

WORKING SYSTEM *Room & Pillar.*

MINING METHODS

*Chain machines.*



COUNTY

SIZE OF ENTRIES—MAIN

CROSS

ROOM

NECK

SIZE OF PILLARS—MAIN

CROSS

ROOM

SHAFT

CHAIN

BARRIER

AMOUNT OF TIMBERING

*very little timber.*

PROPORTION OF COAL UTILIZED

AMOUNT AND CHARACTER OF WASTE

ACREAGE OF COAL MINED

ACREAGE OF COAL REMAINING

PROPORTION OF MINE RUN AND SCREENED COAL

METHOD OF SIZING

RESCREENED

SIZES

PER CENT

PROPORTION AND SIZE OF WASHED COAL

DAILY OUTPUT

UTILIZATION *Railroads.*

MARKETS *Kansas & Neb.*

FREIGHT RATES

GEN'L COAL REPT.

SELLING PRICES AT MINE

COAL LAND OWNED

LEASED

HELD IN FEE

COST OF LAND OWNED *\$40 to \$100 per acre.*

LEASED

HELD IN FEE

ADDITIONAL NOTES

*25 27 28 29*

225

0817

E3



COAL MINE NOTES.  
CONTINUED.

0817

OPERATOR *Southern Coal & Mining Co. #16* MINE #8.  
 ENTRANCE *Shaft.* NAME OF COAL BED #6  
 ELEVATION *475 (topog. map)* THICKNESS OF COAL *84"*  
 DEPTH TO FLOOR *120* MAX. MIN. AV. *471, 113, 358*  
 ALTITUDE OF COAL *358* USED IN COOP. REPT. 1912. COUNTY  
 LOCATION OF SECTION *Just off main West entry in Cross Cut*  
 No. SECTION. *1600' west of shaft.*

No.	SECTION.	In.
1	<i>Top Coal</i>	<i>17</i>
2	<i>Block Coal</i>	<i>27</i>
3	<i>Sulphur</i>	<i>1/2</i>
4	<i>Coal</i>	<i>13</i>
5	<i>Sulphur</i>	<i>1/4</i>
6	<i>Coal</i>	<i>3 1/2</i>
7	<i>Blue Band</i>	<i>1/2</i>
8	<i>Coal</i>	<i>3/4</i>
9	<i>Blue Band</i>	<i>1/2</i>
10	<i>Coal</i>	<i>22</i>
11		
12		
Tape		Total

SAMPLE No. *6/19.*  
 CAN No.  
 CONDITION *Dry.*  
 GROSS WEIGHT  
 TIME EXPOSED *3 1/2" Coal 3/4"*  
 NOT SHIPPED *3,79*<sup>22</sup>  
 NOT INCLUDED *3,79.*



PHYSICAL PROPERTIES BY NUMBERS

*The clay streaks and sulphur are easily broken loose from the coal.*

ROOF *Ls. Slate between Ls. coal varies from 0 to 3'*  
 FLOOR *Fireclay 1' to 3'.*  
 DIP

FAULTS, ETC. *No Horsebacks, rolls, or clay veins.*

GAS GEN'L COAL REPT. *225*

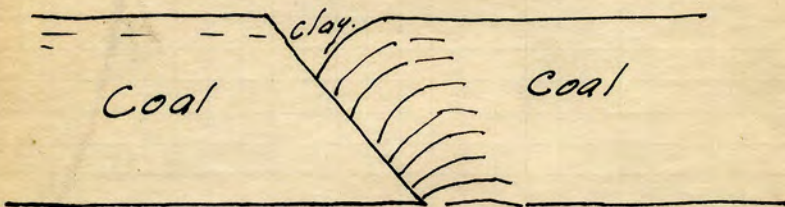
COLLECTOR *Wheeler* REFERENCE *U.B. 141. P54* DATE *1917* 0817  
 .E3



0817

The Ls immediately over the coal is 1' to 1 1/2' thick separated by slate and shale from the thick overlying Ls.

There is one fault that has caused considerable trouble with the roof and with water.



There is no actual displacement of the coal and only a little intruded clay just at the top. It must extend into the roof however as the cap rock is weakened to a considerable extent. several rooms having caved in.

All coal except run of mine and lump goes to the washer.

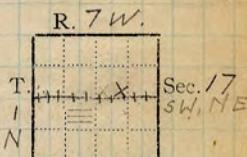
0817.E3

0817.E3



COAL MINING INVESTIGATIONS  
COOPERATIVE AGREEMENT

Mine Name or No., 8  
mile from *At Shiloh*  
Operator, 1912 *Southern Coal & Mining Co*  
Operator, 191



Entrance, *shaft* Elev., 471 <sup>U.S.G.S.</sup> ft. { above, *USED IN COOP. REPT. 1912.*  
Depth to bottom coal, 128 ft. Alt. 343 (See 0917-coal mine notes)

SURFACE DATA.

- A. Topography *Flat. to rolling.* See  
B. Surficial materials, (1) Character See  
(2) Thickness, *60' to 70'* (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc.  
*Yellow clay slightly sandy, no quick sand.*

- C. Outcrops, (1) Character, See  
(2) Structure, See  
(3) Fossil horizons, See  
Collection No.,  
(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,

GEN'L COAL REPT.

225

See

Coal bed name: Local, 6

Survey 6

Collector, *KD White*

State No. 0817.E3

Mine, #8

*Co. 5 of Clair*

Co-op. No. 79





## UNDERGROUND DATA (cont'd.)

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

(a) Relative hardness, *Top coal hardest*(b) Lustre, *Bright to dull*(c) Fracture, *Slightly conchoidal to hackly.*(d) Texture, *Solid to banded*

See Sheets 2+3

## (6) Impurities in coal, other than bedded,

(a) Kind, *sulphur*

(b) Position and persistence,

(c) Rejected, *Irregular*

Ease of separation,

*Yes.*

See

L. Floor: (1) Material *Fire Clay.*(2) Thickness *Average 2'*(3) Variation *Thickness 6" to 2'*

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

*A dark gray fire clay which on weathering becomes covered with white spots of a soluble salt, giving it a speckled appearance. Upper 18" fairly soft yields to a pick, below harder. Has boulders scattered thru it varying in size up to several feet across. Heaves very badly see sheet.*

See #3

(5) Clay sample No.

Location,

## M. Stratigraphy

(1) Fossiliferous horizons underground,

Collection No.

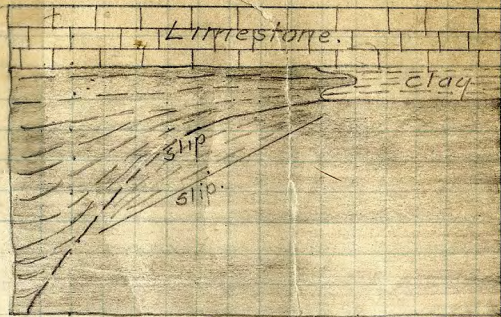
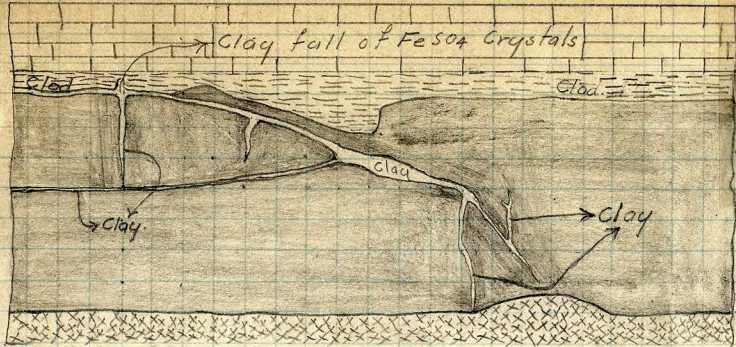
Location,

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

See

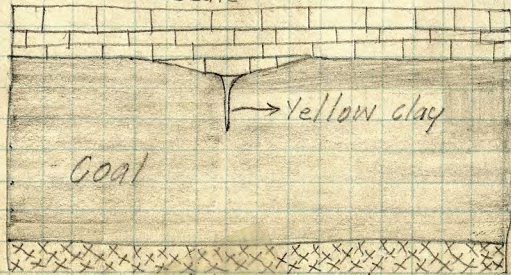
Collector, *KD White*Coal *6*Mine, *#8*Co. *St Clair*State No. *0817E3*Co-op. No. *79*





Bearing N 35° E  
 1. Parting on Main West.  
 Sketch showing Clay Vein

0 1 2 3 4 5  
 Scale



2 Sketch showing slip in coal bed.  
 On Main East 800' from shaft.  
 Note.  
 A cavity one foot high occurred  
 in Limestone. cavity produced  
 both gas and water.  
 Cavity persistent thru mine extend NE + SW  
 thru mine  
 sketch #3 shows roll of Limestone  
 cutting out coal, with small clay vein  
 at centre.

3. On Main East.

INDEX

K3

State No. 0817 F3

Co-op No. 79

Coal 6

Co. St. Clair

Collector KDW

Mine 8

X.—EXTRA SHEET No. 1



## INDEX

## Section Main West.

- K5
1. Top coal hard bright and brittle. A few bands of glance. Sulphur in thin plates knife-edges and balls. Calcite is deposited along cleavage planes. 20"
  2. Clay parting  $\frac{1}{4}$ " to  $\frac{1}{2}$ "
  3. Middle bed: Considerable amount of calcite mother coal, sulphur, and dirt streaks. Bands of glance coal scattered thru, bench. 3'-0"
  4. Band of sulphur  $\frac{1}{4}$ " above Blue Band 3'-0"
  4. Blue Band, gray shale 0'-1"
  5. Bottom Coal fairly clean contains some bone and the usual amount of sulphur and clay
- Total 6'-3" <sup>18"</sup>
- Cleat Face N 35° W  
Butt N 15° E

Room 1, 8<sup>th</sup> N. West.  
Section.

## Black slate

1. Coal, bright, compact, hard and brittle. Harder than rest of bed. A few bands of mother coal, sulphur, and clay. Texture compact not banded. Coal inclined to be blocky 18"
2. Mother coal parting
3. Middle bench, cuts into smaller squares. has banded appearance, caused by layers of glance coal. A few balls of sulphur, coal is softest just above blue band. A layer of sulphurous clay occurs just above blue band. 3'-2"
4. Blue Band  $\frac{1}{2}$ " to 2" <sup>1/2"</sup>
5. Bottom Coal dirtier than rest of bed, has bone and clay bands 2'-0"

When blue band is thin a parallel streak of sulphur occurs about 1'-0" above.

Collector KOW

Coal 6

State No. 0817. E3

Mine 8

Co. 3<sup>d</sup> Clair

Co-op No. 79

X.—EXTRA SHEET No. 2



## INDEX

K5

Cleat Face - N37°W  
 " Butt N58°E  
 Face cleat fairly well developed, butt cleat very poorly.

Considerable calcite is scattered thru bed.  
 slickened faces that occur are also covered with it.

Relation of purity of coal to character of roof same.

Coal shoots in fair size lumps.

L

Clay heaves very badly when water strikes it.

In an abandoned entry where water struck floor, and pillars were robbed slightly, a squeeze rode over entry, causing floor to heave 3' and the pillars were pressed down to the limestone beneath the fire clay.

H+I

The general roof is Limestone, but areas of black slate also occur.

The black slate is sheety full of seams and makes a bad roof. It is full of seams that extend at times into the Limestone. The faces of the slips are slicken sided. Gas is also generally found in these slips. The slate is very blocky and falls in masses that break into squares. Concretions of Limestone and siderite, are scattered thru shale.

Black slate varies from 0' to 3' thick

J

Between slate and limestone or limestone and coal, a clod or draw slate occurs it varies in composition.

Collector K.W.  
 Mine 8

Coal 6  
 Co. St Clair

State No. 0817 E3  
 Co-op No. 79



## INDEX

- J At one place it is a laminated black slate average 4" thick. It is very limey and irregularly bedded.
- Generally it is clod, or a carbonaceous shale with coal streaks thru it.
- H Cap rock is a compact dark gray Limestone. What is called, "a foot lift," occurs between massive ledge and coal or slate. The "foot lift," may be in more than one layer. The first lift, is a nodular limestone 3" to 18" thick which has a very irregular contact with the coal, the irregularities being filled with clod. The other lifts, (second, or third) are similar. At times shale parting occur between the "lifts."
- Appearance of Limestone similar to specimen from Sparta.
- K<sub>3</sub> Slips occur in the Limestone as well as the shale. The displacement is only 5" or 6" but roof is generally bad, and makes considerable water.
- These slips, approximately parallel the face cleat.

Collector K.D.W.

Coal 6

State No. 0817.E3

Mine 8

Co. St Clair

Co-op No. 79



## COAL MINING INVESTIGATION

## COOPERATIVE AGREEMENT

Operator, Southern Coal Mining Co. Date, July 5 1912  
 Mine, # 8 Located \_\_\_\_\_ miles\* from at Shiloh  
 Location in mine, 9th South off Main  
 Total (vertical) depth from surface at point of sampling, 128 ft

In describing the beds and character of the members, note any member that is rejected by the miner. Note all clay and sulphur partings, whatever their thickness. Exclude from sample all clay and sulphur partings  $\frac{3}{8}$  inch thick or over (and even those of less thickness if they are rejected at mine or tipple).

## SECTION OF BED AT POINT SAMPLED

No.	DESCRIPTION	FEET	INCHES
X 1	Roof- <del>LIME</del> Sandstone-coarse		
2	Coal-clean bright	3	5
X 3	Sulphur-pyrite		$\frac{1}{2}$
4	Coal-clean		11 $\frac{1}{2}$
X 5	Bone & pyrite		$\frac{1}{2}$
6	Coal-streaked with dirt		4 $\frac{1}{2}$
X 7	<del>Bone</del> - blue band slate		1
8	Coal-clean	1	6 $\frac{1}{2}$
9			
10	Floor-Fire clay		
11			
12			
13			
14			
15			
16			
17			
	TOTAL,	6	5

Is coal wet or dry? -dry  
 Time exposed, 0 hours, 30 minutes.  
 Weight, 40# gross, \_\_\_\_\_ net.

What are the impurities, and how do they occur? sulphur as pyrite and bone bedded horizontally

What are shipped? 2, 4, 6, 8

What are excluded from the sample? 1, 3, 5, 7.

#5056 Coal bed, # 6  
 \*Direction (N., NE., etc.) †Nearest railway station.

Town, Shiloh Mine, # 8 Co. Southern Coal Mining Co.  
 Sample No. 79A Can No. I.S.G.S. 30 No. 79 0817A

I.—COAL SAMPLE SHEET. Sampler. Nebel & Smith



## COAL MINING INVESTIGATION

## COOPERATIVE AGREEMENT

Operator, Southern Coal + Min. Co. Date, 7-5-1912  
 Mine, No. 8 Located        miles        from at Shiloh  
 Location in mine, Face 3rd North East  
 Total (vertical) depth from surface at point of sampling, 128 ft.

In describing the beds and character of the members, note any member that is rejected by the miner. Note all clay and sulphur partings, whatever their thickness. Exclude from sample all clay and sulphur partings  $\frac{3}{8}$  inch thick or over (and even those of less thickness if they are rejected at mine or tipple).

## SECTION OF BED AT POINT SAMPLED

No.	DESCRIPTION	FEET	INCHES
x1	Roof-Top Coal (about 5 in) <del>Sulphur</del> <sup>lime</sup> above.		
2	Coal - clean	1	11 $\frac{1}{2}$
x3	Sulphur & bone		
4	Coal - clean	1	2 $\frac{1}{8}$
5	Sulphur		
6	Coal - clean	1	6 $\frac{5}{8}$
x7	Sulphur & bone (blue band)		
8	Coal - clean	1	9
9			
10	<u>Floor-fire-clay</u>		
11			
12			
13			
14			
15			
16			
17			
	TOTAL,	6	5 $\frac{1}{4}$

Is coal wet or dry? Dry - ✓  
 Time exposed, 0 hours, 30 minutes.  
 Weight, 45# gross,        net.

What are the impurities, and how do they occur? Pyrite & bone bedded horizontally - scales of  $\text{CaCO}_3$  &  $\text{CaSO}_4$ .  
 What are shipped? 2, 4, 5, 6, 8  
 What are excluded from the sample? 1, 3, 7

#5058 \*Direction (N., NE., etc.).        †Nearest railway station.         
 Town, Shiloh Mine, No. 8 Co. Southern Coal + Mining Co.  
 Sample No. 79C Can No. St. D. 21 No. 79.0817  
 I.—COAL SAMPLE SHEET. Sampler. Nebel + Smith



## COAL MINING INVESTIGATION

## COOPERATIVE AGREEMENT

Operator, Southern Coal Mining Co. Date, July 5 1912  
 Mine, No. 8 Located \_\_\_\_\_ miles\* from at Shiloh  
 Location in mine, Room 8-6<sup>th</sup> S. W.  
 Total (vertical) depth from surface at point of sampling, 128 ft

In describing the beds and character of the members, note any member that is rejected by the miner. Note all clay and sulphur partings, whatever their thickness. Exclude from sample all clay and sulphur partings  $\frac{3}{8}$  inch thick or over (and even those of less thickness if they are rejected at mine or tippel).

## SECTION OF BED AT POINT SAMPLED

No.	DESCRIPTION	FEET	INCHES
X 1	Shale (black) - <del>lime</del> <u>lime</u> above		
2	Coal - clean	3	9 $\frac{1}{2}$
X 3	Bone		4 $\frac{1}{2}$
4	Coal	1	4
X 5	Bone - blue band		1
6	Coal	1	9
7			
8	Floor - fire clay		
9			
10			
11			
12			
13			
14			
15			
16			
17			
	TOTAL,	7	0

Is coal wet or dry? -dry ✓  
 Time exposed, 0 hours, 45 minutes.  
 Weight, 50# ✓ gross, net.

What are the impurities, and how do they occur? Bone and a little pyrite horizontally bedded

What are shipped? 2, 4, 6  
 What are excluded from the sample? 1, 3, 5

#5059 \*Direction (N., NE., etc.). †Nearest railway station. Coal bed, #6 ✓

Town, Shiloh Mine, No. 8 Co. Southern Coal Mining Co.  
 Sample No. 79B ✓ Can No. St D #1 ✓ No. 79 08170 ✓

I.—COAL SAMPLE SHEET. Sampler, Nebel & Smith  
ST Clair



## COAL MINING INVESTIGATION

## COOPERATIVE AGREEMENT

Operator, Southern Coal & Mig Co Date, July 5 1912  
 Mine, # 8 Located        miles\* from at Shiloh  
 Location in mine, Face of Back entry to Main East  
 Total (vertical) depth from surface at point of sampling, 128 ft.

In describing the beds and character of the members, note any member that is rejected by the miner. Note all clay and sulphur partings, whatever their thickness. Exclude from sample all clay and sulphur partings  $\frac{3}{8}$  inch thick or over (and even those of less thickness if they are rejected at mine or tipple).

## SECTION OF BED AT POINT SAMPLED

No.	DESCRIPTION	FEET	INCHES
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
	TOTAL,		

Is coal wet or dry? dry ✓  
 Time exposed,        hours,        minutes.  
 Weight, 4# ✓ gross,        net.  
 What are the impurities, and how do they occur?       

What are shipped?       

What are excluded from the sample?       

\*Direction (N., NE., etc.).

Coal bed, # 6 ✓  
 †Nearest railway station.

Town, Shiloh ✓ Mine, No 8 Co. Southern Coal & Mining Co.  
 Sample No. 79DH ✓ Can No. STD 3 ✓ No. 79 0817 ✓ 23

I.—COAL SAMPLE SHEET. Sampler.

Nebel & Smith





Operator, Mine, *No 8*  
 Located, miles from *Shiloh*  
 Location in mine, Sec. T. R. Date *Oct. 8, 1906*  
*Southern R.R.*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			<i>Roof shale</i>	
0	1		<i>Coal</i>	21
	2		<i>Sulphur</i>	21 $\frac{1}{16}$
12	3		<i>Coal</i>	28 $\frac{1}{16}$
	4		<i>Shale</i>	28 $\frac{13}{16}$
24	2 5		<i>Coal</i>	34 $\frac{13}{16}$
	4 6		<i>Sulphur</i>	
36	7 7		<i>Mitcher Coal</i>	35 $\frac{1}{16}$
	8 8		<i>Coal</i>	42 $\frac{1}{16}$
48	9 9		<i>Sulphur</i>	42 $\frac{5}{16}$
	10 10		<i>Coal</i>	54 $\frac{13}{16}$
60	11 11		<i>Sulphur</i>	55 $\frac{1}{16}$
	12 12		<i>Coal</i>	58 $\frac{9}{16}$
72	13 13		<i>Blue band (shale)</i>	60 $\frac{1}{16}$
84	14 14		<i>Coal</i>	80 $\frac{1}{16}$
(Note character and thickness of floor)				
Total thickness of coal.				<i>80 <math>\frac{1}{16}</math></i>
Condition,		Time,	hr.	min.
Wt. Gross, lbs.		Net,	lbs.	
What Nos. shipped by Co.?				
Excluded from sample: No. <i>4 9 11 13</i>				
Sample represents <i>65 <math>\frac{57}{16}</math></i> in. tons.				
Impurities? How do they occur?				
<i>Bulletin 22, p 506</i>				

Sample No. \_\_\_\_\_ Can No. \_\_\_\_\_ Lab. No. *BM. 3912*  
 Collector, *L. M. Groves* Coal: Survey No. \_\_\_\_\_  
 Mine, *L. M. Gray* Co. *Stclair* Index No. \_\_\_\_\_  
**R.—COAL SAMPLE SHEET.** *0817ES*



Operator, \_\_\_\_\_ Date Oct 8, 1906  
 Mine, No 8 Sec. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_  
 Located, \_\_\_\_\_ miles from Shiloh Southern R. R.  
 Location in mine, crosscut No 1 S side 900 ft S of gal

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			<u>Roof shale</u>	
0	1		<u>Coal</u>	<u>33</u>
	2		<u>Sulphur</u>	<u>33 1/2</u>
12	3		<u>Coal</u>	<u>41 1/2</u>
	4		<u>Shale</u>	<u>41 5/8</u>
24	5		<u>Coal</u>	<u>57 5/8</u>
	6		<u>Sulphur</u>	<u>58 3/8</u>
36	2	7	<u>Mother coal</u>	
	4	8	<u>Coal</u>	<u>74 3/8</u>
48		9	<u>Sulphur</u>	<u>74 7/8</u>
		10	<u>Coal</u>	<u>80 7/8</u>
60	6	11	<u>Sulphur</u>	
		12	<u>Coal</u>	
72		13	<u>Blue band (shale)</u>	
	9	14	<u>Coal</u>	
84			<u>Floor, fire clay</u>	
			(Note character and thickness of floor)	
			Total thickness of coal.	<u>807 8</u>

Condition, \_\_\_\_\_ Time, hr. \_\_\_\_\_ min. \_\_\_\_\_  
 Wt. Gross, \_\_\_\_\_ lbs. Net, lbs. \_\_\_\_\_  
 What Nos. shipped by Co.?

Excluded from sample: No. \_\_\_\_\_  
 Sample represents 09 1/2 in. 269 tons.  
 Impurities? How do they occur?  
Bulletin 22 p. 306

Sample No. \_\_\_\_\_ Can No. \_\_\_\_\_ Lab. No. B.M. 3910  
 Collector, J. M. Groves Coal: Survey No. \_\_\_\_\_  
 Mine, H. M. Gray Co. St Clair Index No. \_\_\_\_\_  
**R.—COAL SAMPLE SHEET.**

0817  
 .EJ



Symbol Description Inches

USB M Bull 2 p 505-6

SHILOH. No. 8 MINE.

*Sample.*—Bituminous coal; Illinois field; (Illinois No. 30) analyses Nos. 3910, 3912 (p. 89).

*Mine.*—No. 8; Belleville district; a shaft mine near Shiloh, on the Southern Railway.

*Coal bed.*—Herrin coal (Belleville, No. 6) of the United States Geological Survey. Carboniferous age, Carbondale formation. Average thickness at this mine, 6 feet 8 inches. The mine shaft is 126 feet deep. The roof is gray shale and the floor is fire clay. Streaks and bands of shale and sulphur occur irregularly in the bed.

Two sections were measured by J. W. Groves and K. M. Way on October 8, 1906, as follows:

Sections of coal bed in No. 8 mine, near Shiloh.

Section	A 3910	B 3912
Laboratory No.		
Roof, shale	Fl. in.	Fl. in.
Coal	2 9	1 9
Sulphur	0 3	0 3
Coal	0 8	0 8
Shale	0 1	0 1
Coal	1 4	0 6
Sulphur	0 0	0 0
Mother coal	0 3	0 1
Coal	1 4	0 7
Sulphur	0 0	0 1
Coal	0 6	1 1
Sulphur	0 0	0 1
Coal	0 0	0 8
Blue band (shale)	0 0	0 1
Coal	0 0	1 8
Floor, fire clay		
Thickness of section	6 8	6 8
Thickness of coal sampled	6 7	5 5

\* Not included in sample.

Section A (sample 3910) was measured in the crosscut off west entry 1, south side, 900 feet southwest of the shaft.

Section B (sample 3912) was measured in east entry 3, 800 feet northeast of the shaft.

For results of tests of this coal, see mention of specific tests as follows—steaming tests: U. S. Geol. Survey Bull. 332, p. 116; Bureau of Mines Bull. 23, pp. 61, 159; producer-gas tests: U. S. Geol. Survey Bull. 332, p. 116; Bureau of Mines Bull. 13, pp. 123, 273; briquetting tests: U. S. Geol. Survey Bull. 332, p. 117; washing tests: U. S. Geol. Survey Bull. 332, p. 117; Bull. 336, pp. 14, 16.

For chemical analyses see part I of this bulletin, p. 89; also U. S. Geol. Survey Bull. 332, p. 115.

GEN'L COAL REPT.

225

(Scale: 1 division = 3 inches).

Sample No. Can No. Lab. No.  
 Collector, Coal: Survey No. 6  
 Mine, # 8 Co. St. Clair Index No. 0817, 65  
 Q.—COAL SECTION SHEET.

30144-2M)



259693

TOWN *Ballerille* TOWNSHIP

MAP No.

FARM

R.

COMPANY *Southern Coal, Coke + Mining Co.* T.

Sec.

AUTHORITY *Face of 7<sup>th</sup> S. off the Main E.*

ELEVATION

HOLE No.

COLLECTOR *Netzaband +* DATE DRILLED*Wilson*

No.	STRATA	THICKNESS		DEPTH	
		FEET	IN.	FEET	IN.
	<i>Shale + Clod Roof</i>				
<i>1</i>	<i>Clod &amp; Bony Coal, Sulfur lenses.</i>		<i>3 1/2</i>		
<i>2</i>	<i>Top bench.</i>	<i>1</i>	<i>3 1/2</i>		
<i>3</i>	<i>Parting</i>		<i>1/2</i>		
<i>4</i>	<i>9" Bench.</i>	<i>1</i>	<i>1/2</i>		
<i>5</i>	<i>Clay &amp; Sulfur</i>		<i>3/4</i>		
<i>6</i>	<i>Drift</i>	<i>1</i>	<i>1/2</i>		
<i>7</i>	<i>Sulfur &amp; Clay</i>		<i>1/2 - 1</i>		
<i>8</i>	<i>Block</i>	<i>1</i>	<i>1</i>		
<i>9</i>	<i>Sulfur &amp; Shale</i>		<i>1/2 - 1</i>		
<i>10</i>	<i>Coal</i>		<i>2 1/2</i>		
<i>11</i>	<i>Shale</i>		<i>3</i>		
<i>12</i>	<i>Bottom coal</i>	<i>1</i>	<i>5</i>		
	<i>Tape 6'4"</i>				

County *St. Clair*Index No. *0818.14*

T.—DRILL RECORD.

30144-2M)



259693

TOWN *Belleville*

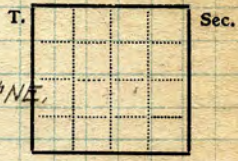
TOWNSHIP

MAP No.

FARM

R.

COMPANY *Southern Coal, Coke + Mining Co.*



AUTHORITY

ELEVATION

HOLE No. *Face 6<sup>th</sup> NE.*

COLLECTOR *Netzeband + Wilson* DATE DRILLED

No.	STRATA	THICKNESS		DEPTH	
		FEET	IN.	FEET	IN.
	<i>Slate Roof</i>		<i>7 1/2</i>		
	<i>Coal</i>		<i>4 1/2</i>		
	<i>Coal</i>		<i>4 1/2</i>		
	<i>Charcoal Parting</i>		<i>1/8</i>		
	<i>Coal</i>		<i>7</i>		
	<i>Sulfur Parting</i>		<i>1 1/2</i>		
	<i>Coal</i>		<i>8</i>		
	<i>Sh + S. (intermittent)</i>		<i>1/8 - 1/4</i>		
	<i>Coal</i>		<i>7 1/2</i>		
	<i>Sulfur</i>		<i>8</i>		
	<i>Coal with 2 or 3 Ch'coal Partings</i>		<i>4</i>		
	<i>Coal</i>		<i>9</i>		
	<i>Dirt Parting</i>		<i>1/2 - 5/16</i>		
	<i>Coal</i>		<i>8</i>		
	<i>Charcoal Parting</i>		<i>1/2 - 1/4</i>		
	<i>Coal</i>	<i>3</i>	<i>7</i>		
	<i>Fire clay floor</i>				
	<i>Tap 7' 3"</i>				

County *St. Clair*

Index No. *0818.14*

T.-DRILL RECORD.



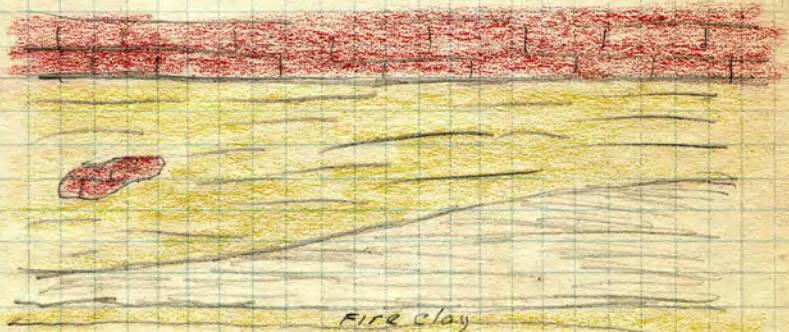
## INDEX

K3

Height of roof 7'8" — from roof to top of coal 2'11"

70' east the coal is 1'8" above floor  
6' of shale above coal

Lime concretions in shale.



Lower shale — fissil Upper shale soft, broken  
Clay parting between coal + shale.

Top 10" of coal — bony

Caprock a limestone lense at beginning  
of roll 0-1'. 18" shale above between  
lense + regular cap rock

200' between points where coal goes  
under floor to where it emerges again.

Shale thins to 6" as coal comes up.

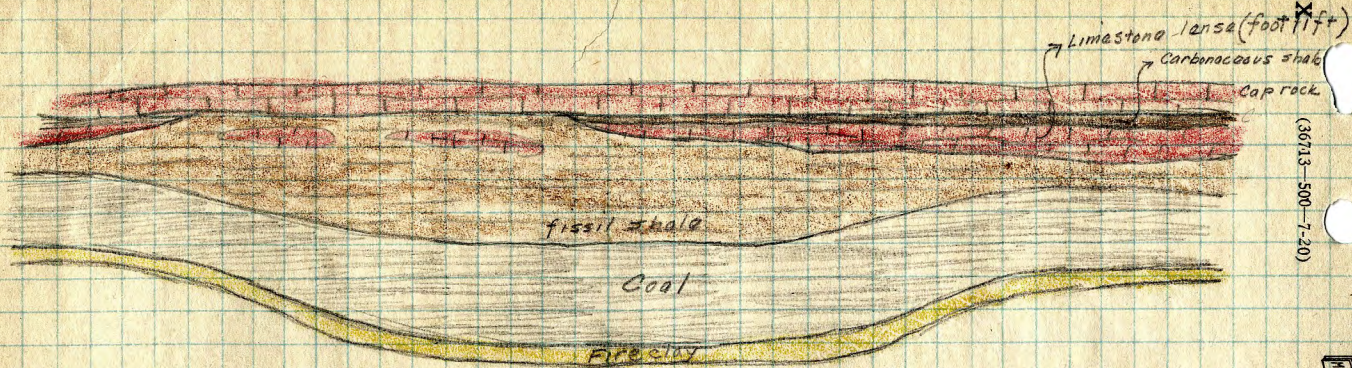
Cap rock nearly horizontal with

roll

Roll — 1400' from shaft in main east  
entry.

G

Foot-lift (local term) a limestone lense  
beneath the real caprock + separated  
from it by 6" carbonaceous shale. Lense  
varies from 4" to 12" over mine. Stays  
up as roof for several months then  
has to be taken down.



Sketch of Roll 1400' from shaft in Main East Entry.

Collector *Netzeband & W. Isen*

EXTRA NO. *2*

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*St. Clair*

X- /



INDEX

I 3

The immediate roof thruout the mine is a shale which varies in thickness from 2" to 8'. In the places where it is only 2" it is usually a soft, fossiliferous shale which comes down with the coal. It is called clod at this mine. In other parts of the mine where shale reaches its maximum thickness, it is usually a hard, fissil shale. It makes a very heavy roof to hold & in time it must be taken out. The upper part of the fissil shale seems to be somewhat softer and more shattered in appearance in some places. This was noted especially in the shale studied in the roll described in X1+2.

Collector Netzeband &amp; Wilson

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X- 

EXTRA NO. 3

County

St. Clair