



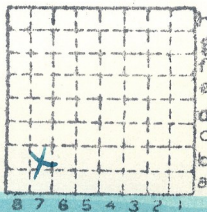
Form 180

R - F

Perry CC

Mine Index

203



Sec. 1

T.	1	N.	8
R.	9	E.	W.

Index No.

MI 78











by Cady's map LOCATION AND ELEVATION

Location: **Sw** side **Belleville Electric**  
side  
side Highway No.

R. R.  
R. R.

on top. map **224** Location sheet **13-87-44b**

Elevation: Method, 1. Est. ( ) \_\_\_\_\_ ft.

2. Inst. (kind **Plane Table**) **590.8** ft.

By **WBR 1930** Data sheet

DEPTH

Authority To coal **153** ft.

Authority Rail to rail \_\_\_\_\_ ft.

Top of coal above rail. (Est. Rule) \_\_\_\_\_ ft.

To coal \_\_\_\_\_ ft.

ALTITUDE OF TOP OF COAL

By estimated data \_\_\_\_\_

By instrumental data **437.8** ft.

Thickness

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

GEOLOGICAL DATA

Mine notes, date **1912** **1921** **1930**

Coop No. **78** Pyr. inv. Coal Ash inv.

CHEMICAL DATA

Analyses Face	U. I.		B. M.	Others
Car	U. I.	<b>1 P.</b>	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 **1931**

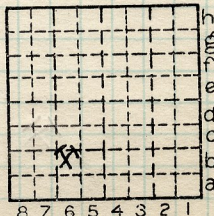
IDENTIFICATION

County No. **203**

Coal No. **6**

Part **6**

Quad. **St. Louis**  
County **St. Clair**



Sec. **1**

T. **1** N.  
R. **9** W.

Index No. **0601.6b**

COAL MINE LOCATION AND DATA

**Abd**





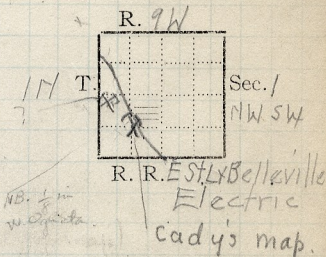
COAL MINING INVESTIGATIONS  
COÖPERATIVE AGREEMENT

Mine Name or No., *Superior,*  
*1/8 mile West from Ogile Station.*  
Operator, 1912

Operator, 191

Entrance, *Shaft.* Elev., *580* ft. { above,  
Depth to bottom coal, *160'* ft. { below, Alt. *436*

SURFACE DATA.



A. Topography *Rolling*

See

B. Surficial materials, (1) Character

(2) Thickness, *100'* (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc.

*Yellow sandy clay*

C. Outcrops, (1) Character,

See

(2) Structure, *Coal dips to north*

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,

GEN'L COAL REPT. 203

See

Coal bed name: Local, *6*

Survey *6*

Collector, *RD White*

State No. *0601*

Mine, *Superior*

Co. *St. Clair*

Co-op. No. *78* COUNTY

L.—SURFACE SHEET (Geol.)









## UNDERGROUND DATA (cont'd.)

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

(a) Relative hardness, *Top + bottom coal hardest*(b) Lustre, *Top Coal bright, Middle dull, bottom bright + dull.*(c) Fracture, *Hackly to semi-conchoidal*(d) Texture, *banded to solid.*

See

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

(a) Kind, *Sulphur balls*

(b) Position and persistence,

*Irregular*

(c) Rejected,

*Yes*

Ease of separation,

*by hand.*

See

L. Floor: (1) Material *Fire clay*(2) Thickness *1' to 6'*

(3) Variation

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

*Fire clay same as generally found in district.**Heave etc.*

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

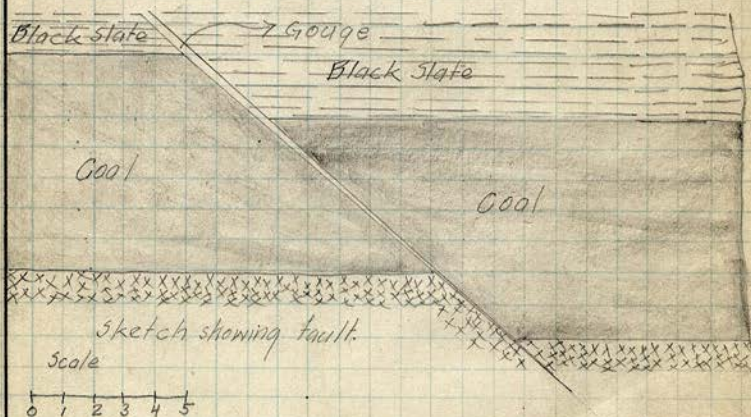
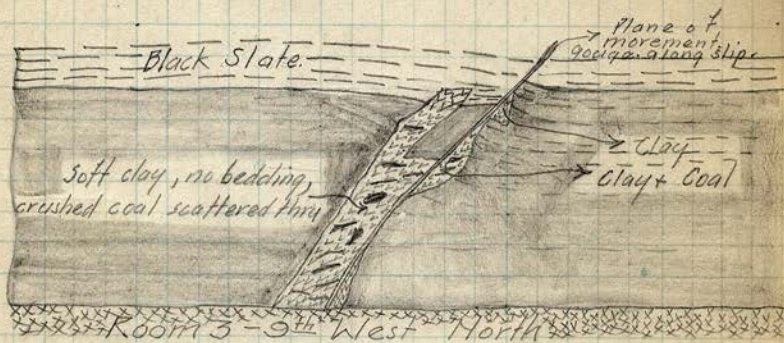
Collector, *KDW*Coal *6*Mine, *Superior*Co. *St Clair*State No. *0601*Co-op. No. *78*





## INDEX

K3



- I Modular Ls, or, "foot lift," thickness 6" to 15", is easily held with timber.
- G First 6" of black slate is hard, that above is slippery and more laminated. Slate is very black on fracture. It is filled with concretions.
- J Clay is, 1" to 12" thick but averages between 5" and 6". It is a carbonaceous clay shale, with coal streaks, and a little lime.
- K3 Slips in roof bear ME, general course about N45° E.

Collector KDW

Mine Superior

X.—EXTRA SHEET No. 1

Coal 6

Co. St Clair

State No. 0601

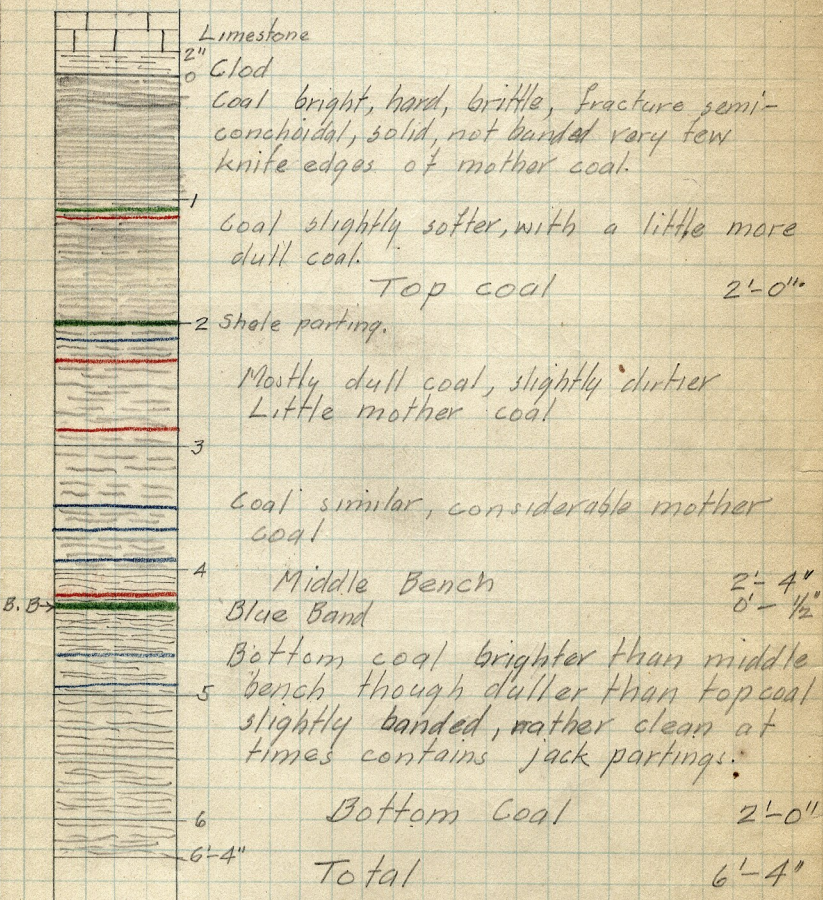
Co-op No. 78





**INDEX**

K5



Face Main North Entry  
3400 ft. from shaft.

- H Limestone has smoother contact with coal + slate than is general in the district.
- G Black slate occur in large pockets form about 30% to 35% of mine roof

Collector KDW  
Mine Superior

Coal 6  
Co. St. Clair

State No. 0601  
Co-op No. 78

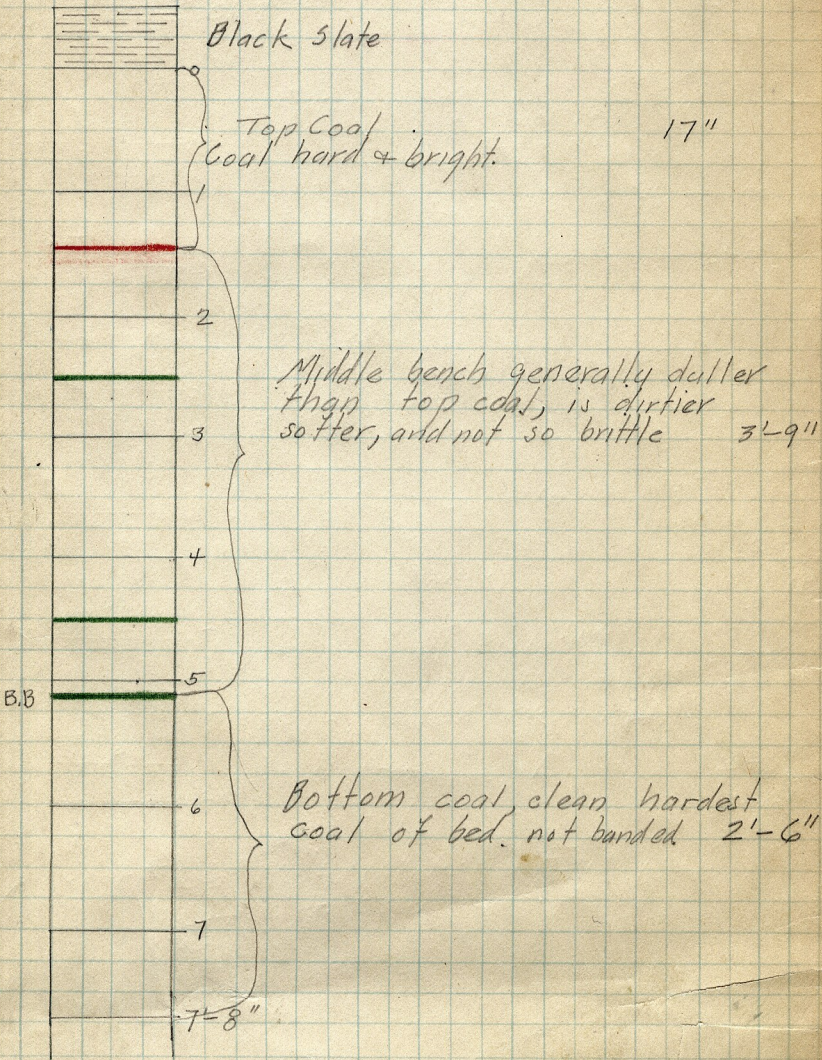




INDEX

1K5

Room 3-9<sup>th</sup> West, North



Collector KDW  
Mine Superior

Coal 6  
Co. St. Clair

State No. 0601  
Co-op No. 78





COAL MINING INVESTIGATION

COOPERATIVE AGREEMENT

Operator, Superior Co. M. Co., Date, July 5 1912  
 Mine, Superior Located - miles\* - from Ogde (Belleville)  
 Location in mine, Entry face 300 ft. W. of Main N.  
 Total (vertical) depth from surface at point of sampling, 145 ft. (3300' from S)

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 tippie).

SECTION OF BED AT POINT SAMPLED

No.	DESCRIPTION	FEET	INCHES
1	Coal, Bright	1	10
X 2	Blue Band		1 ✓
3	Coal Bright		8
4	Mother Coal		$\frac{3}{4}$
5	Coal		$\frac{1}{2}$
X 6	Blue Band		1 ✓
7	Coal		$1\frac{1}{2}$
8	Mother Coal		$\frac{1}{2}$
9	Coal, Bright	3	4
10			
11			
12			
13			
14			
15			
16	Roof - Lime Stone		
17	Floor - Fire Clay		
	Output 800T TOTAL,	6	$3\frac{1}{4}$ ✓

Is coal wet or dry? Dry ✓  
 Time exposed, 40 minutes.  
 Weight, 37 gross, net.

What are the impurities, and how do they occur? Blue Bands. Sulphur streaks

What are shipped? 1-3-4-5-7-8-9

What are excluded from the sample? 2-6 Coal bed, #6 ✓

\*Direction (N., NE., etc.). †Nearest railway station.

Town, Belleville (Ogde) Mine, Superior Co. Superior Co. M. Co.  
 Sample No. 78A Can No. Std 36 No. 78 0601

I.—COAL SAMPLE SHEET. Sampler. McDonald - Stifford

#5055





COAL MINING INVESTIGATION

COOPERATIVE AGREEMENT

Operator, *Superior Coal & Mfg. Co.* Date, *7-5* 191*2*  
 Mine, *Superior* Located *—* miles\* *—* from † *Ogle, Ill.*  
 Location in mine, *Main North Face (3200' from shaft)*  
 Total (vertical) depth from surface at point of sampling, *200 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	Coal Bright	1.	8
X 2	Blue Band		$\frac{1}{4}$ ✓
3	Coal Bright		11.
X 4	Blue Band		$\frac{1}{2}$ ✓
5	Coal Bright	1.	#
X 6	Sulphur Streak		$\frac{1}{2}$
7	Coal Bright		4.
X 8	Blue Band		1 $\frac{1}{2}$ ✓
9	Coal Bright		3#
X 10	Sulphur Streak	#	$\frac{3}{4}$ ✓
11	Coal Bright	1.	10.
12			
13			
14			
15			
16	output 800		
17	Roof - Limestone		
	Floor - Fireclay		
	TOTAL,	6	3 $\frac{1}{2}$ ✓

ES

Is coal wet or dry? *Dry* ✓  
 Time exposed, *—* hours, *40* minutes.  
 Weight, *38* gross, *—* net.

What are the impurities, and how do they occur? *Sulphur Streaks*

What are shipped? *Blue Band*

What are excluded from the sample? *1-3-579-11*  
*2-4-6-8-10* Coal bed, #6 ✓

#5060

\*Direction (N., NE., etc.). †Nearest railway station.

Town, *Belleville (Ogle)* Mine, *Superior* Co. *Superior Coal & Mfg. Co.*

Sample No. *78A* ✓ Can No. *ST. D. 31* ✓ No. *78* *0601*

I.—COAL SAMPLE SHEET. Sampler. *mentioned - stuffed*

St. Clair





COAL MINING INVESTIGATION

COOPERATIVE AGREEMENT

Operator, ~~Superior Coal & Mfg Co~~ Date, 7-5 1912  
 Mine, ~~Superior~~ Located \_\_\_\_\_ miles\* from ~~Ogle (Bellerive)~~  
 Location in mine, ~~7 1/2 W. of main stony face~~ 3500 ft. shaft  
 Total (vertical) depth from surface at point of sampling, 120 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 3/8 inch thick or over (and even those of less thickness if they are rejected at mine or tippie).

SECTION OF BED AT POINT SAMPLED

No.	DESCRIPTION	FEET	INCHES
1	Coal, Bright	1	6
X 2	Blue Band		1 ✓
3	Coal, Bright		9 ✓
X 4	Sulphur streak		1/4 ✓
5	Coal, Bright	1	1
X 6	Blue Band		3/4 ✓
7	Coal, Bright		3 ✓
X 8	Blue Band		1 1/2 ✓
9	Coal, Bright		10 ✓
X 10	Blue Band		1 1/2 ✓
11	Coal, Bright		5 ✓
12			
13			
14		67	
15	Roof - Limestone		
16	Floor - Fire clay		
17	800T output		
	TOTAL,	5	2 ✓

Is coal wet or dry? Dry ✓  
 Time exposed, \_\_\_\_\_ hours, 45 minutes.  
 Weight, 46 gross, \_\_\_\_\_ net.

What are the impurities, and how do they occur? Blue Band

What are shipped? Small Sulphur streaks

What are excluded from the sample? 1-2 3-5-7-9-11

4-6-8-10 Coal bed, #6 ✓

#5061 \*Direction (N., NE., etc.). †Nearest railway station.

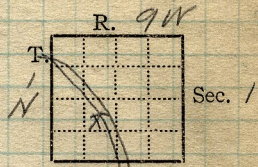
Town, Bellerive (Ogle) Mine, Superior Co. Superior Co., Mfg.

Sample No. 78C Can No. 15.G.538 No. 78 0601





Mine Name or No., *Superior*  
*5 1/2* mile N.W from *Belleville*  
Operator, 1921 *Superior Coal Co*  
Operator, 191



R. R. E. St. L. & Sub.

Entrance, *Shaft*. Elev., *600* ft. (above, *sea level*)  
(below,  
Depth to bottom coal, *160* ft. Alt. *440*

SURFACE DATA.

- A. Topography, *Rolling* See
- B. Surficial materials. (1) Character, *Glacial till*
- (2) Thickness, *100 ft.* (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc. *In the west workings old erosion channels cut away the limestone roof, leaving a roof of till. Mining was stopped wherever this till was encountered.*

- C. Outcrops, (1) Character, See *X 2*
- (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,

See

---

Coal bed name: Local, Survey No. *#6*

Collector, *Netzaband + Wilson*

Mine, *Superior* Co. *St. Clair* Index No. *0601-33*

L.—SURFACE SHEET (Geol.)





F. Thickness of rock above bed worked, 60 ft.

(1) Important variations, Comes down to nothing in west workings. See X 2

G. Note presence of strata having important effect on mining,

See

- (1) Position, Roof
- (2) Character, Slate (Presumably a draw slate.)
- (3) Persistence, North & west face.
- (4) Other workable coal beds,

See

H. Cap rock, Limestone

- (1) Thickness, 0-20'
- (2) Height above coal, 0-5'

See X 2

I. Immediate roof, Slate

- (1) Thickness, 0-5' (2) Contact with coal, 100' Au-2' Tight
- (3) Horizontal variation, Considerable variation over the mine. See X 3

J. Draw slate. (1) Thickness, (2) Contacts

None present

(3) Persistence,

K. Coal bed: Max. 82" Min. 73" Av. 78 inches

- (1) Benches, 5
  - (a) Position, Top, 9" coal, drift, block + bottom.
  - (b) Persistence, Same benches present thru out mine.

See

- (2) Bedded impurities, kind, position in benches, persistence, ease of separation. Sulfur, clay mixture

See

- (3) Irregularities in continuity of bed (due to deposition, erosion, or movement, Some balls in top coal, Fault See X 1

(a) Effect on mining, Fault caused trouble with roadbed. See X 1

SECTION				
Ft.	fn.	Name	Index	Sym.
100		drift		
4		lin		
20		sh		
22		his		
6	6	coal		
4		fc		

Collector, Netzeband + Wilson

Coal: Survey No. #6

Mine, Superior Co. St. Clair

Index No. 0601-33





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

- (a) Relative hardness, *Bottom coal hardest, drift coal softest, top, 9" & block about same.*
- (b) Lustre, *Bright, some dull, also glance bands.*
- (c) Fracture, *Hackly*
- (d) Texture, *Laminated* See
- (6) Impurities in coal, other than bedded, *Plates + facings of calcite. Some sulfur balls*
- (a) Kind,
- (b) Position and persistence,
- (c) Rejected, *Pyrite - yes* Ease of separation, *Sticks* See

L. Floor: (1) Material, *Fire clay*

- (2) Thickness, *1 to 5'*
- (3) Variation, *Only went thru floor in few places.*
- (4) Note character, condition, tendency to heave, relation to undercutting commercial value. *No tendency to heave unless mined too wide, leaving too few pillars. or unless 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, *Netzaband + Wilson*Coal: Survey No. *#16* Mine, *Superior* Co. *St. Clair*Index No. *0601-33*

N.—UNDERGROUND SHEET (Geol.)





Operator, *Superior Mining Co.* Date *May 2, 1921*  
 Mine, *Superior* Sec. T. R.  
 Located, \_\_\_\_\_ miles from  
 Location in mine, *27 Room, 6th step 1st east.*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			<i>Slate roof</i>	
		1	<i>Top coal</i>	<i>15</i>
		2	<i>Clay mixture</i>	<i>1/4 - 1/2</i>
		3	<i>9" Coal</i>	<i>12</i>
		4	<i>Clay</i>	<i>1/2 - 3/4</i>
		5	<i>Drift</i>	<i>12 1/2</i>
		6	<i>Clay</i>	<i>1/2 - 3/4</i>
		7	<i>Block</i>	<i>15</i>
		8	<i>{ Sulfur streak</i>	<i>1/4 - 1/2</i>
		9	<i>3" } Coal</i>	<i>2 - 2 1/2</i>
		10	<i>{ Blue band</i>	<i>1/4 - 1/2</i>
		11	<i>Bottom</i>	<i>22</i>
			<i>Sacks 1+2</i>	
			(Note character and thickness of floor)	
			Total thickness of coal.	

Condition, *As mined* Time, *1 hr. 0 min.*  
 Wt. Gross, *30 lbs.* Net, *lbs.*  
 What Nos. shipped by Co.? *1, 3, 5, 7, 9, 11*  
 Excluded from sample: No. *2, 4, 6, 8, 10*  
 Sample represents *82 1/2* in. tons.  
 Impurities? How do they occur? *As partings*

Sample No. \_\_\_\_\_ Can No. *N-21-1* Lab. No. *12536*  
 Collector, *Netzaband + Wilson* Coal: Survey No. *#6*   
 Mine, *Superior* Co. *St. Clair* Index No. *0601.33*  
**R.—COAL SAMPLE SHEET.**





Operator, *Superior Mining Co.* Date *May 2, 1921*  
 Mine, *Superior* Sec. T. R.  
 Located,  $\frac{1}{4}$  miles from *shaft at extreme north of mine*  
 Location in mine, *21 East*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)	
In.	No.	No.	(Note character and thickness of roof) Inches
			<i>Slate roof</i>
		1	<i>Top coal</i> 13
		2	<i>Sulfur streak</i> $\frac{1}{8}$
		3	<i>9" coal</i> $8\frac{1}{2}$
		4	<i>Sulfur + clay</i> $\frac{1}{4} - \frac{1}{2}$
		5	<i>Drift</i> 9
		6	<i>Clay mixture</i> $\frac{1}{4}$
		7	<i>Block</i> 10
		8	<i>Sulfur streak</i> $\frac{1}{4}$
		9	<i>Coal</i> $2\frac{3}{4}$
		10	<i>Blue band</i> $2\frac{1}{2}$
		11	<i>Coal</i> $2\frac{1}{2}$
		12	<i>Sulfur streak</i> $\frac{1}{8}$
		13	<i>Bottom coal</i> 18
			<i>Sacks 374</i>
			<i>Tape 65"</i>
			(Note character and thickness of floor)
			Total thickness of coal.
		Condition, <i>As mined</i>	Time, hr. <i>55 min.</i>
		Wt. Gross, <i>25 lbs.</i>	Net, lbs.
		What Nos. shipped by Co.?	<i>1, 3, 5, 7, 9, 11, 13</i>
		Excluded from sample: No.	<i>2, 4, 6, 8, 10</i>
		Sample represents	$63\frac{1}{8}$ in. tons.
		Impurities? How do they occur?	<i>As partings</i>

Sample No. Can No. *N-21-2* Lab. No. *12537*

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

Mine, *Superior* Co. *St. Clair* Index No. *0601.33*





Operator, *Superior Coal Co* Date *May 2, 1921*  
 Mine, *Superior* Sec. T. R.  
 Located,  $\frac{1}{2}$  miles from *shaft.*  
 Location in mine, *8 East entry*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			<i>Slate roof</i>	
		1	<i>Top coal</i>	<i>14</i>
		2	<i>Sulfur streak</i>	$\frac{1}{4}$
		3	<i>9" coal</i>	<i>11</i>
		4	<i>Shale with sulfur</i>	$\frac{1}{4}$ - $\frac{1}{2}$
		5	<i>Drift</i>	<i>12</i>
		6	<i>Sulfur streak</i>	<i>1</i>
		7	<i>Block</i>	<i>15</i>
		8	<i>Blue band</i>	$\frac{1}{4}$
		9	<i>Coal</i>	$3\frac{1}{2}$
		10	<i>Shale parting</i>	$\frac{1}{2}$
		11	<i>Bottom.</i>	<i>19</i>
			<i>Tape 77"</i>	
			(Note character and thickness of floor)	
			Total thickness of coal.	
		Condition, <i>As mined</i>	Time, hr. <i>45</i> min.	
		Wt. Gross, <i>20</i> lbs.	Net, lbs.	
		What Nos. shipped by Co.?	<i>1, 3, 5, 7, 9, 11</i>	
		Excluded from sample: No.	<i>2, 4, 6, 8, 10 (2 1/2")</i>	
		Sample represents	<i>7 1/2</i> in. tons.	
		Impurities? How do they occur?	<i>As partings</i>	

Sample No. Can No. *N-21-3* Lab. No. *12538*  
 Collector, *Netzband & Wilson* Coal: Survey No. *#6*   
 Mine, *Superior* Co. *St. Clair* Index No. *0601-33*  
 R.—COAL SAMPLE SHEET.



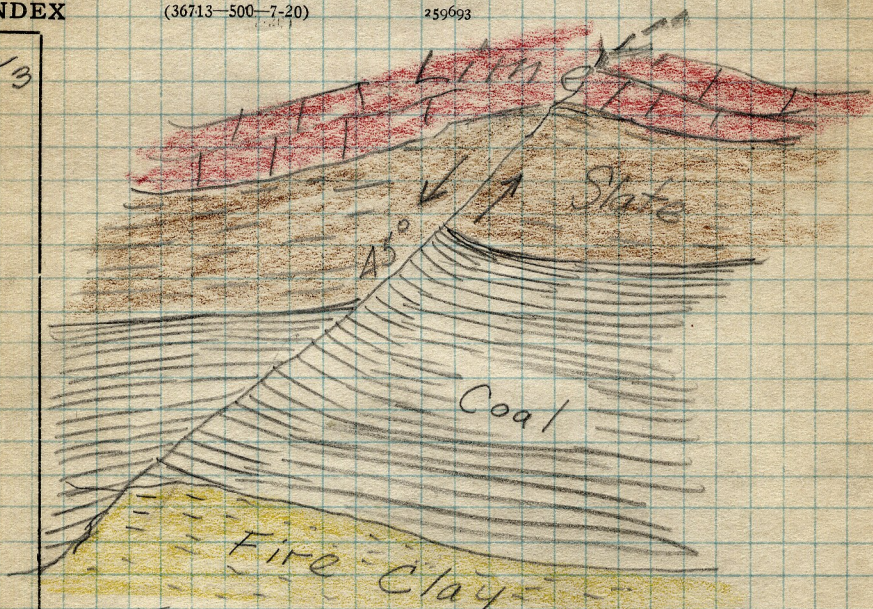


259693

INDEX

(36713-500-7-20)

K3



Fault on Entry, Going W. from  
Main Shaft. - 1600'  
Fault Runs North & South  
throw About 2'  
South Side of Drift.

K3a

The fault, which was a step fault, caused considerable trouble in mining especially in keeping up the road bed. To follow the coal it was necessary to go down some four feet and then on the far side come back up to the level of the undisturbed coal. This formed a depression in the road bed which slowed up production until the face was advanced far enough so that the depression could be filled and the road bed graded.

Collector Netzeband &amp; Wilson

Index No. 0601.33

X-1

EXTRA NO. 1

County

St. Clair





259693

INDEX

(36713-500-7-20)

B3)  
F14  
H1)

In the west workings, the cap rock and slate pinch out and are replaced by a peculiar yellow clay which flows into the workings when the coal is removed. It is difficult to hold so mining is discontinued when this clay is encountered. The clay is a peculiar yellow clay containing fragments of rock. It is very plastic and flows readily. It is overlain by a grey sandy shale. At one point a cavity approximately 5 ft. in dia. and some 10 ft. deep was uncovered, extending up into the roof. The cap rock is found again farther west.

From the information available there are three possible solutions of the problem. The clay may be glacial till filling an old erosion channel, river sediment or residual clay from the decomposition of a limestone, possibly the missing cap rock, by solution. The last hypothesis has one point in its favor, a small pebble of limestone was found in the clay.

Collector Netzeband &amp; Wilson

Index No. 0601.33

X-2

EXTRA NO. 2

County St. Clair