

2088

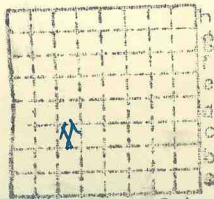


Form 180

R. F.

HERRIN

Pulberry Hill ec.
54 235



Sec. 18

T.	1	X	S.
----	---	--------------	----

R.	4	E	W.
----	---	--------------	----

Index No.

Mine Index 307

10 9 8 7 6 5 4 3 2 1



Mine originally operated by: (1)

Date

1906

MULBERRY HILL COAL CO
Freeburg,

Original name or number:

Illinois Coal Report

p.

MORGAN

LATER OPERATORS

Date

Operator

Name or No.

2

3

4

5

6

7

8

9

10

11

12

13

14

NE SW (1948)

* Also owners

#See ownership sheet

1946
OK

Railroad, Wagon, Idle, Abandoned shaft

I.C.R.R.

IDENTIFICATION

County No. 235

Coal No.

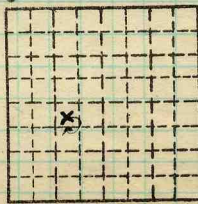
6

Quad. NEW ATHENS

Part 3

(1948) 7' 6"

County ST CLAIR



Sec. 18

T. 1 S.

R. 7 W.

Index No.

COAL MINE OPERATOR



(Sheets) COAL PRODUCTION (Sheet)

No.	Period						Tons	
	Mo.	Day	Year	Mo.	Day	Year		
	1	1	34	12	31	34	66	922
	1	1	35	12	31	35	47	925
7	1	1	1936	12	31	1936	46	025
7	1	1	1937	12	31	1937	43	401
S-7	1	1	1938	12	31	1938	32	184
						1939	77	679
						1940	42	870
S-7	1	1	1941	12	31	1941	42	384
S-7	1	1	1942	12	31	1942	122	767
						1943	137	232
						1944	128	584
						1945	144	353
						1946	110	260
						1947	138	870
						1948	118	090
						49	59	775
						50	49	750
						51	31	075
						52	9	020

#9

SUMMARIES

No.	to	No.		
1906	-	1933	2,394	515

Railroad, Wagon, Idle, Abandoned

IDENTIFICATION

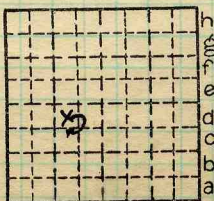
I.C.

S-7

County No. 235 Coal No. 6

Quad. New Athens Part 3

County ST CLAIR



Sec. 18

T. 1 S.

R. 7 W.

Index No.

COAL MINE—PRODUCTION

1118-6C



LOCATION AND ELEVATION

Location: **E** side **I. C.** R. R.
 side R. R.
 side Highway No.

on top. map **246** Location sheet **13-87-41c**

Elevation: Method, 1. Est. () _____ ft.
 2. Inst. (kind **Plane table**) **538.1** ft.

By _____ Data sheet _____

DEPTH

Authority **Post** To coal **150** ft.
143.5 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 **394.6** ft.

Thickness

Max. _____ in. Min. _____ in. Aver. **78** in. **90**

GEOLOGICAL DATA

Mine notes, date **1908** **1921** _____

Coop No. _____ 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

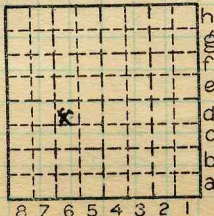
Misc. tests: Coking. _____ Cleaning _____ Boiler _____

Published descriptions:—

Railroad, Wagon, Idle, Abandoned

IDENTIFICATION

County No. **235** Coal No. **6**
 Part **3**
 Quad. **New Athens**
 County **St Clair**



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

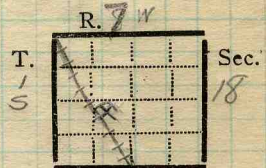
1118-6C

COAL MINE LOCATION AND DATA



Town, *Frasburg* Surface alt., ft.
 Local Authority, *August Kniese, supt.* Depth to coal, *143 1/2* ft.
 Level: Auth., *Topog. Map.* Alt. top coal, ft.
 Method, *est.* Thickness: Av. in.
 Max. in., Min. in.

R. R., *I. C.*



Location: authority,
shaft 1000 W 450'S of center
sec. 18 T15 R8W

(Show R. R.)

Operator _____ Mine Name or No. _____

19
 Successor to
 Date
 Succeeded by
 Date
 Succeeded by
 Date

PRODUCTION.

							U. S. No.
19							

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

Examined by *Post*

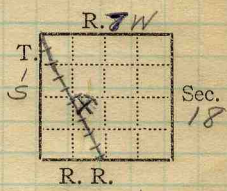
GEN'L COAL REPT. 235
 Ref.

Coal bed name: Local *No. 6* Survey No. *6?*
 County *St. Clair* Index No. *1118.C6*

K.—ACTIVE SHIPPING OR LOCAL COAL MINE.



Mine Name or No., *Mulberry Hill*
1 mile N from *FREEBURG*
Operator, 1913
Mulberry Hill Coal Co.
Operator, 191



Entrance, *Shaft* Elev., *4'* ft. above, *RR Crossing est.*
(below,
Depth to ~~bottom~~ coal, *143 1/2* ft. Alt.

SURFACE DATA.

- A. Topography, *Flat* See
- B. Surficial materials. (1) Character, *Yellow Clay*
- (2) Thickness,
- (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc. *None noted*

- C. Outcrops, *None* (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.
No Record of Shaft Available

See drill record sheet,

- E. Notes on surrounding area,

GEN'L COAL REPT. - 230

See

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

Collector, *Post*

Mine, *Mulberry Hill* Co. *St. Clair* Index No. *1118.34*



F. Thickness of rock above bed worked, *Probably more than 100*

(1) Important variations, See

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

- (1) Position, .
- (2) Character,
- (3) Persistence,
- (4) Other workable coal beds

H. Cap rock, *Lis.*
 (1) Thickness, *Reported 4' - 20'*
 (2) Height above coal, *0 - 3 1/2'*

See

I. Immediate roof, *Black Slate or Clod*
 (1) Thickness, *Max. 42"*
 (2) Contact with coal, *Even, breaks clean.*
 (3) Horizontal variation, *Marked.*

See

J. Draw slate, (1) Thickness, *2 ft.*
 (2) Contacts *Clean*
 (3) Persistence, *Local - 1 or 2 Rooms*

K. Coal bed: Max. *126* Min. *72* Av. *80* inches

- (1) Benches, *3*
 - (a) Position, *Top 24*
Middle 38
Bottom 18 (below BB)
 - (b) Persistence, *Not well marked, nor uniform in thickness.*
- (2) Bedded impurities, kind, position in benches, persistence, ease of separation, *Shale ptgs, charcoal partings & sulphur shale ptgs, specially in middle bench, persistent, but discontinuous - Difficult separation.*
- (3) Irregularities in bed (due to deposition, erosion, or movement), *Clay slips, with or without minor dislocation.*
- (a) Effect on mining, *Unimportant*

See X 1.

See

SECTION		
Name	Ft. In.	Sym.
<i>As roof</i>		
<i>Cap rock</i>	<i>0 8</i>	
<i>Lis.</i>	<i>6</i>	
<i>middle 24' coal solid</i>		
<i>Sec. X I 3</i>		
<i>clod</i>	<i>0 5</i>	
<i>slate</i>	<i>0 5</i>	
<i>coal</i>	<i>7 ±</i>	

Collector, *Post*

Coal: Survey No. *67*

Mine, *Mulberry Hill*, Co. *Mulberry Hill Coal Co.*

Index No. *St. Clair 1118.34*



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

(a) Relative hardness, *Top hardest, Middle softest.*

(b) Lustre, *Mostly dull, Top & Bottom shows more bright, Max. 1"*

(c) Fracture, *Uneven, sub conchoidal top & bottom.*

(d) Texture, See

(6) Impurities in coal, other than bedded,

(a) Kind, *S. balls, facings of S & Calcite, stringers of S.*

(b) Position and persistence, *Throughout.*

(c) Rejected, *None except large balls.* Ease of separation, See

L. Floor: (1) Material, *Light gray plastic clay.*

(2) Thickness, *?*

(3) Variation, *Not known.*

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

Heaves much where wet.

See

(5) Clay sample No. Location,

M. Stratigraphy,

(1) Fossiliferous horizons underground, *Cap line exceptionally fossiliferous. Collection should be made.*

Roof Shale shows abundant fragmentary plants. Can not be

Collection No. Location,

collected. Frost examined mine carefully.

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

See

Collector, *Post*

Mine, *Mulberry Hill*

Co. *Mulberry Hill Coal Co.*

Coal: Survey No. *67*

Index No. *St. Clair*

1118.34

.D6



Symbol	Description	Inches
3" 1	Roof - Black Slate	
	1 Coal Hard, Sulphur stringers	11 $\frac{1}{4}$
	Calcite facings, mostly dull,	1
	2 Charcoal ptg.	$\frac{1}{4}$
	3 Coal, mostly dull, with bony & sulphur lenses	10 $\frac{1}{2}$
	4 Sulphur Ptg.	$\frac{1}{2}$
	5 Coal as above	5 $\frac{1}{4}$
	6 Shale ptg	4
	7 Coal	15 $\frac{3}{4}$
	8 Black shale ptg.	4
	9 Coal	12 $\frac{3}{8}$
	10 S. Lens	4
	11 Coal	8
	12 S. Lens	1
	13 Coal	4
	14 Shale ptg	$\frac{1}{2}$
	15 Coal	23 $\frac{1}{2}$
	Fire Clay below.	
		89 $\frac{3}{8}$

Tape - 89"

Ben Pauc
Otto Rix

(Scale: 1 division = 3 inches).

Sample No. _____ Can No. _____ Lab. No. _____

Collector, Post Coal: Survey No. 67

Mine, Mulberry Hill Co. Mulberry Hill, C. Co. Index No. St. Clair

Q.—COAL SECTION SHEET. 1118.34
D6



INDEX

13

In Room 23 off Main E. a roof fall shows following section:

Argillaceous ls.	1'	Expos
Carbonaceous zone with a little coal (not over 2")	8"	
Argillaceous ls. - very fossiliferous	6'	
Clod (shale, calc. & carb)	5"	

Examination along main east & main West entries shows considerable variation in thickness of the several beds noted above, but some of them are represented all over the mine. In places the black slate is nearly 4' thick, elsewhere it is absent, and the clod lies just over the coal. The upper carbonaceous zone is only locally developed, & appears from $\frac{1}{4}$ " to 6' over the coal, just east of the shaft the relations are as sketched below:

Collector

Mine

Co.

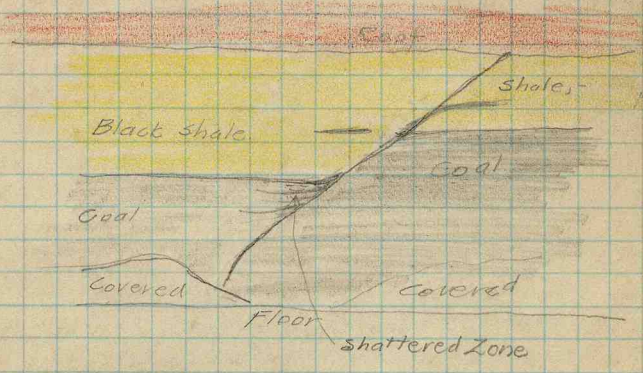
Coal: Survey No. Index No. *St. Clair**1118.34*

X.—EXTRA SHEET No. /



INDEX

600' W of M. W. from Bottom. Scale 1 div = 12''



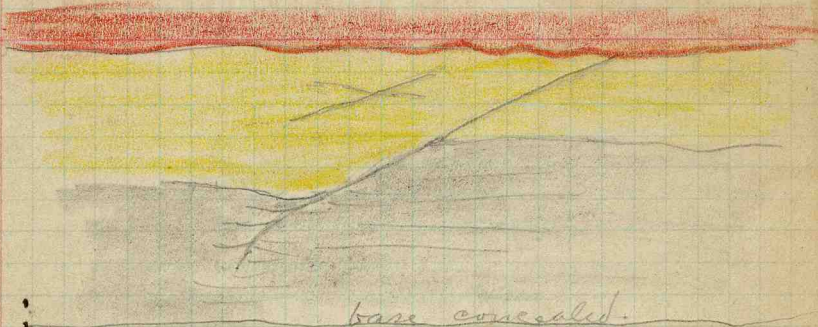
Collector
Mine *Mulberry Hill* Co.

Coal: Survey No.
Index No. *St. Clair*
1118.3.4

X.—EXTRA SHEET No.



St. Clair



Sketch of fault 600' on Main West
from bottom Scale 1 div = 12"

Mulberry Hill Mine.

St. Clair 1118.34

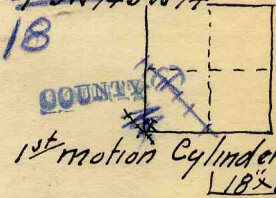


COAL MINE NOTES.

1107

COUNTY *St. Clair* TOWN
T. *15* R. *B.W.*
OPERATOR *Mulberry Hill Coal Co.*
OFFICE *Freeburg*
MINE *Mulberry Hill.*
TIPPLE *Wooden*
ENGINES *Etna Foundry & Machine Co. 1st motion Cylinders*

MAP No. ~~1111~~
S. ~~7 SW 1/4 SW 1/4~~



BOILERS
DRUM *5' Cast Iron*
SHAFT *8 1/2' x 14'* CAGE *Handy Dump*
HAULAGE *Mule.*
CARS *Wooden 2 tons. capacity*
VENTILATION *Fan 9' Blades 4', reversible, by changing doors.*

DRAINAGE *Pump 5 to 6 hrs. out of 24*
SPRINKLING

WORKING SYSTEM *Room & Pillar*
MINING METHODS *Room & Pillar, with hand mining.*
Shot off. solid.
Powder Dupont single F

SIZE OF ENTRIES—MAIN *16 & 21'* CROSS ROOM *21' x 30'* NECK

SIZE OF PILLARS—MAIN CROSS ROOM
SHAFT CHAIN BARRIER

AMOUNT OF TIMBERING SIZE

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 *Shaker Screen. Three tracks.* RESCREENED

SIZES *2", 1 1/2", 3/4", 1/2". Shaker Screenings 1/2"*

PER CENT *30% screenings*

PROPORTION AND SIZE OF WASHED COAL

DAILY OUTPUT *525 tons*

UTILIZATION

MARKETS

FREIGHT RATES

SELLING PRICES AT MINE

COAL LAND OWNED LEASED HELD IN FEE *1107*
COST OF LAND OWNED LEASED HELD IN FEE *1118*

ADDITIONAL NOTES

GEN'L COAL REPT. 235



COAL MINE NOTES.
CONTINUED.

OPERATOR *Mulberry Hill Coal Co* MINE *Mulberry Hill.*
 ENTRANCE *Shaft* NAME OF COAL BED
 ELEVATION *520 (top map)* THICKNESS OF COAL *1107*
 DEPTH TO FLOOR *150* MAX. MIN. AV. *7 1/2'*
 ALTITUDE OF COAL *377 (top)*
 LOCATION OF SECTION *1st South entry off East. 700' S.E. of shaft.*

No.	SECTION.	In.
1	<i>Ls.</i>	<i>2'</i>
1	<i>Shales + Coal</i>	<i>2</i>
2	<i>Coal</i>	<i>13</i>
3	<i>Clay parting</i>	<i>1/4"</i>
4	<i>Coal</i>	<i>13</i>
5	<i>Clay + Sulphur parting</i>	<i>1/4"</i>
6	<i>Coal</i>	<i>9 1/2"</i>
7	<i>Sulphur</i>	<i>1/2"</i>
8	<i>Coal</i>	<i>6</i>
9	<i>Clay parting & Sulphur</i>	<i>1/4"</i>
10	<i>Coal</i>	<i>13</i>
11	<i>Clay parting</i>	<i>1/4"</i>
12	<i>Coal</i>	<i>3</i>
13	<i>Tape Blue Band</i>	<i>Total 1/2</i>

COUNTY	SECTION	Feet
SAMPLE No.	<i>Shales + Coal</i>	<i>2"</i>
CAN No.		<i>13"</i>
CONDITION		<i>13"</i>
GROSS WEIGHT		<i>9 1/2"</i>
TIME EXPOSED		<i>6"</i>
NOT SHIPPED		<i>13"</i>
NOT INCLUDED	<i>7, 13, 15</i>	<i>3"</i>

14 *Coal* *20 1/2"*

PHYSICAL PROPERTIES BY NUMBERS

15 *Sulphur* *1/2"*
 16 *Coal* *6"*
 17 *Fire Clay* *2'*
 18 *Ls.* *+*

520
143
377

ROOF *Ls 5', some Shale.*
 FLOOR *Fire Clay and Ls floor 4'*
 DIP
 FAULTS, ETC. *Roof rolls.*
 GAS

COLLECTOR *Udden* REFERENCE *N.B. 138 P 72* DATE *1107*
1118



Hand all leased.

1107

Shaft Record.

Surface	20'
Ls	20', 40
Shale	70, 110
Ls	11, 121
Shale + Ls. to bottom.	

In the third off the first south a large block of clod and ls cuts the coal to within $3\frac{1}{2}'$ of the floor. Flaps of coal mixed more or less with the clod. Ls contains numerous fossils.

Elev about 13' above I.C. depot at Freiburg.

1107 1118

~~1107 1118~~

This mine is working under top that is more or less normal for the Bellville Area.

Above the coal there are 3 types of roof.

1. Regular Hemm. ls.
2. Black Slate - Hemm. ls.
3. ~~Bast~~ (^{thin} Clod) Bastard ls. - Black Slate Hem.

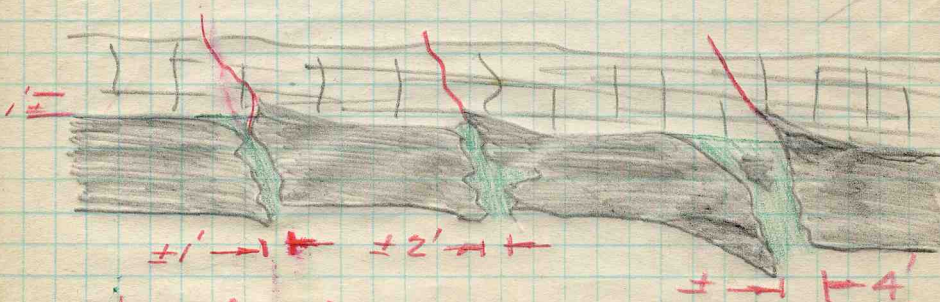
When the black slate is the immediate roof, ^{as} good a working condition results as when working under ls. - The only bad immediate roof is the slate associated with the Bastard ls.

Coal in all the types materials as seen at this mine are "regular" -

But a few features of interest were observed that are noted in the following pages.

1. A very strong jointing pattern
is developed

Strike $N55^{\circ}E$ - this is
parallel to the strong cleat development.
|| to the cleat pattern is a feature that
is similar to the horsebacks of the #5
but there is some displacement viz.



Note that these are views of features and
that into the loc above they become faults
with about 1' displacement.

the underlay could not be observed.