



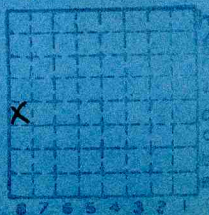
Form 180 Blue

Southern Coal, Coke & M.C. #9

7 mi. + 84,  
BM 47

S-4

214



Sec. 17

T.	1	N.
R.	5	W.

Index No.

✓



Mine originally operated by: (1)

Date 1898 Muren Coal & Ice Co.

Original name or number: #2  
 Illinois Coal Report 1898 p.

LATER OPERATORS

Date	Operator	Name or No.
2 1905	Southern Coal Mining Co.	#9
3 1910	Southern Coal, Coke, & Mining	#9
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		

\* Also owners #See ownership sheet

*Idle 1939* Railroad, Wagon, Idle, Abandoned Shaft  
 Southern, C.R.I.&P.

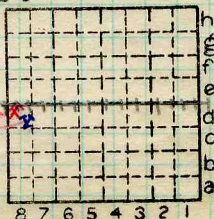
IDENTIFICATION

County No. 214

Coal No. 6

Quad. 227-Breese Part

County Clinton



Sec. 17

T. 1 N.

R. 5 W.

Index No.

1417 d8.

COAL MINE OPERATOR



( Sheets ) COAL PRODUCTION ( Sheet )

No.	Period						Tons	
	Mo.	Day	Year	Mo.	Day	Year		
4	1	1	1936	12	31	1936	109	902
			Cap. :-			1926	3	000
						1927	293	241
						1928		
						1931	32	643
						1932	42	541
4	1	1	1937	12	31	1937	81	694
S-4	1	1	1938	12	31	1938	17	273

#3

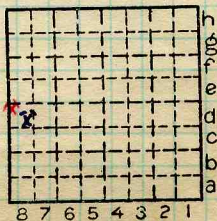
SUMMARIES

No.	to	No.		
1898		1935	9	691 113

Railroad, Wagon, Idle, Abandoned

IDENTIFICATION

Breese  
 County No. 214 Coal No. 6  
 Breese  
 Quad. 227 Part  
 County Clinton



Sec. 17

T. 1 N.  
 R. 5 W.

Index No.

1417 d8

COAL MINE—PRODUCTION



Mine originally operated by: (1)

Date  
1897

# Southern Coke Coal & Mg. Co.

Original name or number  
Illinois Coal Report 1954 Mine No. 9  
p. 74

## New Baden

### LATER OPERATORS

Date	Operator	Name or No.
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		

\*Also owners

#See ownership sheet

## SHAFT Railroad, Wagon, Strip, Idle, Abandoned

318'

IDENTIFICATION 8'

County No. \_\_\_\_\_

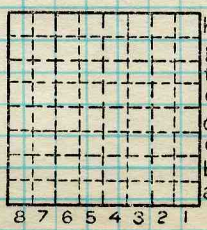
Coal No. \_\_\_\_\_

Coal Report No. \_\_\_\_\_

□ 6

Quad. \_\_\_\_\_

County **CLINTON**



Sec.

T. N.  
S.

R. E.  
W.

Index No.

COAL MINE OPERATOR



3027

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves, each Patented 1906.  
(35031-500-6-23)

Mine Name or No. New Baden Mine Address New Baden

Operator Southern Coal Coke and Mining Co

Main Office Address 319 N. 4th St  
St Louis

Location of Mine:

Township Name \_\_\_\_\_ County Clinton

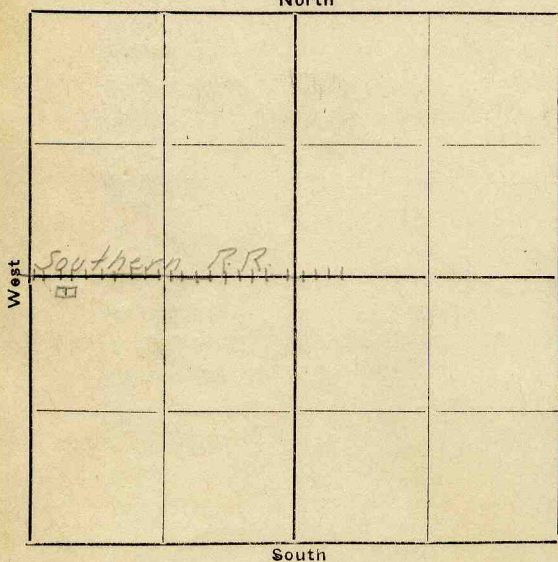
Section No. 17 Township 1 N 2 S Range 2 E W

Indicate location of mine and position of R. R. in plat of section below.  
North

**SW-10,  
1954  
(7744' 164)**

Kindly state number of feet from quarter section lines:

\_\_\_\_\_ 50 from N. line  
\_\_\_\_\_ from E. line  
\_\_\_\_\_ from S. line  
\_\_\_\_\_ 200 from W. line



Idle entire year 19 \_\_\_\_\_ Yes  
No

Abandoned (date) 19 \_\_\_\_\_

Surface landing is \_\_\_\_\_ feet above sea level or about \_\_\_\_\_ feet (above) (below) railroad station at \_\_\_\_\_ (nearest town).

Depth to top of coal is 317 feet.

Average thickness of coal is 7 feet 6 inches.

Do not fill in below this line.

Coal Bed Name Bellefonte Survey No. 6

County Clinton Index No. \_\_\_\_\_



LOCATION AND ELEVATION

Location: side Southern, C.R. 1 & P. R. R. side R. R. side Highway No.

on top. map Location sheet

Elevation: Method, 1. Est. ( ) ft. 452 2. Inst. (kind PT) 452.9 ft.

Table with columns: By, DEPTH, Data sheet. Rows: Authority To coal, Authority Rail to rail, Top of coal above rail. (Est. Rule), To coal 319 ft.

ALTITUDE OF TOP OF COAL

By estimated data 135 By instrumental data 134 ft.

Thickness Max. 108 in. Min. 84 in. Aver. 100 in. 78

GEOLOGICAL DATA

Mine notes, date 1907 1918 Coop No. 84 Pyr. inv. Coal Ash inv.

CHEMICAL DATA

Table with columns: Analyses Face, U. I., B. M., Others. Rows: 5073-4, Bur. Mine Bull 22 (3), Car, Org. Sulf, Ash fusion, Ash anal.

Classification

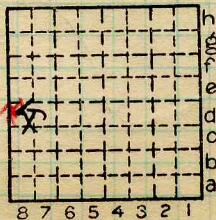
Misc. tests: Coking. Cleaning Boiler

Published descriptions:—

Railroad, Wagon, Idle, Abandoned

IDENTIFICATION

County No. 214 Coal Rept No S3 Coal No. 6 Part Clinton



Sec. 17 T. 1 N. R. 5 W. Index No. 1417.8d

COAL MINE LOCATION AND DATA



Location and Elevation Data

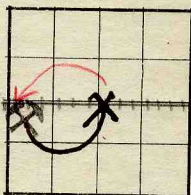
Location: Exact Approximate  
 (Approximate only if no trace of record of original exists)  
 Location by Clinton County Mine Notes  
Dept Mines Minerals  
 Date..... Notebook No..... Page.....  
 Looseleaf ref.....  
 Map files No.....

Description of location

Position in sec., 1/4 sec., 40 acres

.....feet from North line  
5175  
2400.....feet from East line  
2600.....feet from South line  
 .....feet from West line

1/4 Sec



Sec. 17	
T	N.
S.	
R	E.
5 W.	

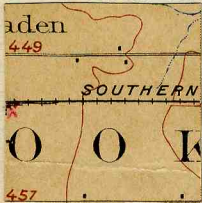
Other description: Belemite - Breese Folio

Farm.....  
No.....

Company Southern Coal,  
Coak & M. Co.

Auer. #121897-

No. 9  
County No. 214



Elevation. 452 ft.

By.....

Method: Level, transit, alidade, hand level

Elevation of.....

Height of point above ground.....

Date..... Notebook..... P.....

Looseleaf ref.....

Map files No.....

Description of item: (drill hole, mine, etc.).....

County Clinton

Quadrangle Breese

Index No. 1417 d8

Operator, *Southern Coal Coke & Mining Co* Date *July 16, 1931*  
 Mine, *New Baden* Sec. *17* T. *1N* R. *5W*  
 Location in mine, *At Entrance to Room 11, 3rd West 9th South. (over)*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)	
In.	No.	No.	(Note character and thickness of roof)
	15		<i>Limestone Roof.</i>
	14		
	13		<i>Top of seam 91"</i>
		(15)	<i>Clay and Pyrite 0" to 1/2"</i>
		(14)	<i>Pyrite 1/16</i>
		(13)	<i>Pyrite 1/16, 1/8"</i>
		(12)	<i>Charcoal 1/8"</i>
	12	(11)	<i>Pyrite 1/8"</i>
		10	<i>Parting</i>
		(9)	<i>Pyrite 1/8, 1/2" coal, 1/8" charcoal</i>
		(8)	<i>Pyrite 1/8"</i>
	11	(7)	<i>Charcoal 1/8"</i>
		(6)	<i>Clay 1/4 1/2 regular</i>
	10	(5)	<i>Sulphur 1/2</i>
	9	(4)	<i>Clay 1/16"</i>
	8	(3)	<i>Clay 1/16"</i>
		2	<i>Clay 1/8"</i>
	7	(1)	<i>Fire Clay</i>
			(Note character and thickness of floor)
			Total thickness of coal
	6		
	5		
	4	Condition,	Time, hr. min.
		Wt. Gross, lbs.	Net, lbs.
	3	What Nos. shipped by Co.?	
	2	Excluded from sample: No.	
		Sample represents	in. tons.
	1	Impurities? How do they occur?	

inches  
*J.D. +*  
*MAP.,*  
*1956*

(1 division = 3 in.)

Sample No. *No Column* Can No. *R-7* Lab. No.   
 Collector, *H.P. Nicholson* Coal: Survey No.   
 Mine, *New Baden* Co. Index No.   
 R. COAL SAMPLE SHEET.





COAL MINE NOTES.

COUNTY *Clinton* TOWN *New Baden* MAP No. ~~7077\*~~ *1417*  
T. *1N* R. *5W* S. *17 NW, SW*

OPERATOR *Southern Coal & Mining Co.*  
OFFICE *St. Louis Mo.*  
MINE *#9.*

*Loads four tracks*  
*use chain grate stakers.*

USED IN COOP. REPT. 1912

*1418*  
*SEN*  
*Letter from*  
*S C & M Co*  
*Oct. 17*

TIPPLE  
ENGINES  
BOILERS  
DRUM

SHAFT CAGE  
HAULAGE *Electric and mules*  
CARS *Wooden Wide and shallow, capacity 3 tons.*  
VENTILATION

DRAINAGE  
SPRINKLING  
WORKING SYSTEM  
MINING METHODS

*Sullivan Pick machine.*

SIZE OF ENTRIES—MAIN *20'* CROSS ROOM *30x300±* NECK  
SIZE OF PILLARS—MAIN CROSS ROOM *30'*  
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 RESCREENED

SIZES  
PER CENT

PROPORTION AND SIZE OF WASHED COAL  
DAILY OUTPUT *2000 tons. Max. to date. 12-13-07 2257 tons.*

UTILIZATION

MARKETS

FREIGHT RATES

SELLING PRICES AT MINE

COAL LAND OWNED LEASED HELD IN FEE ~~1077\*~~ *1417*  
COST OF LAND OWNED LEASED HELD IN FEE

ADDITIONAL NOTES *measurements of coal Grout N.B. 7. P. 25*  
*Wheeler N.B. 141, P. 66* *Very Full notes by Dewolf NB 66 P. 2 to 4*



COAL MINE NOTES.  
CONTINUED.

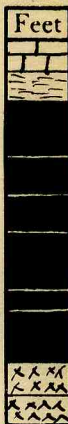
OPERATOR *Southern Coal & Mining Co* MINE #9 1417  
 ENTRANCE *Shaft.* NAME OF COAL BED #6  
 ELEVATION *454* THICKNESS OF COAL  
 DEPTH TO FLOOR *326* MAX. *9'* MIN. *7 1/2'* AV.  
 ALTITUDE OF COAL *128*  
 LOCATION OF SECTION *13<sup>th</sup> room of 6<sup>th</sup> West. of main southwest.*

USED IN COOP. REPT. 1912.

No. SECTION.

No.	SECTION.	In.
1	Top of Coal	2 1/2
2	Charcoal Parting	1/8
3	Coal	15
4	Blue slate & Sulphur	1/4
5	Coal	13
6	Blue slate and sulphur	1/4
7	Coal	19 1/2
8	Sulphur	1/2
9	Coal	5 1/2
10	Blue Band	1 3/4
11	Bottom Coal	17 1/2
12	Fire clay	
	Tape 8'-0	Total 84 7/8

SECTION



SAMPLE No.

CAN No.

CONDITION dry 21 1/2"

GROSS WEIGHT 50 lbs 13"

TIME EXPOSED 45 min. 19 1/2"

NOT SHIPPED 10 5 1/2"

NOT INCLUDED 10 17 1/2"

PHYSICAL PROPERTIES BY NUMBERS

See Wheeler.

454  
329  
334  
138

ROOF *slate*

FLOOR *Fire clay 2 to 3'*

DIP

FAULTS, ETC. *Fault. occurs. see Wheeler.*

GAS

COLLECTOR

REFERENCE

DATE

~~1017~~

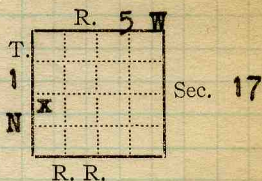
1417

*Wheeler. Groat*

*N.B. 141.66, 7:25*

12-17-07

Mine Name or No., **New Baden**  
**3/4** mile **E** from **New Baden**  
 Operator, 191 **Southern Coal Coke & Mg Co**  
 Operator, 191



Entrance, **Shaft** Elev., **452** ft.  $\left\{ \begin{array}{l} \text{above,} \\ \text{below,} \end{array} \right.$   
 Depth to ~~top of~~ coal, ft. Alt.  
**top** SURFACE DATA.

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

The **e** is a heavy sandstone about 90 feet down which has given considerable trouble because of water which it contains. The shaft burst during the last winter near the position of this stratum and let considerable water in the mine.

- 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,

See

Coal bed name: Local,

Survey No. **6**

Collector, **Cady**

**Sept 11, 1918**

Mine, **New Baden**

Co. **Clinton**

Index No. **1417**

L.—SURFACE SHEET (Geol.)



- F. Thickness of rock above bed worked,
  - (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, See

H. Cap rock, **Limestone**

- (1) Thickness, **15 - 20' (in shaft)**
- (2) Height above coal, **1" to 6 ft**

See X-1

I. Immediate roof, **Clod or black slate**

- (1) Thickness, **Clod to 6-8"**
- (2) Contact with coal, **Bk slate to 6' av, 18-36"**

(3) Horizontal variation, **Bk slate pinches out under clod and limestone** See X-1

J. Draw slate. (1) Thickness, **None** (2) Contacts **None**

- (3) Persistence,

K. Coal bed: Max. **108** Min. **84** Av. **100** inches

- (1) Benches, **Three**
  - (a) Position, **Top, 18" middle 5' bottom 18"**
  - (b) Persistence, **Persistent**

See

(2) Bedded impurities, kind, position in benches, persistence, ease of separation. **Blue band av, about 18" up 1 - 1 1/2" thick. Occasional bands of clay between what in other mines would be drift and block coal and below top coal.** See /

(3) Irregularities in continuity of bed (due to deposition, erosion, or movement,

**Several faults WNW- ESE** See X-1

- (a) Effect on mining, See

SECTION				
Ft.	In.	Name	Index	Sym.



## INDEX

H

The greater part of the mine has a limestone cap-rock similar to that in other mines in the Belleville district. The cap rock seems to be somewhat different from that in other parts of the district, however, in being interbedded with thin weak layers, so that in parts of the mine the limestone lies in beds a foot or so thick. The lower bed where this is the case is difficult to hold especially along the entries where it has been exposed for some time.

I

Immediately underlying the caprock, whether above black slate or coal is a layer of clod or rather soft limy shale, in places almost a lm st. This is in places only an inch or so thick or just a parting between the coal and rock. Elsewhere it may be 6-8 inches thick. This comes down with the coal, or where the black slate is present forms an insecure layer between the cap rock and slate that makes it impossible to hold the latter.

The slate is commonly 18 -30 inches thck. In places it is as much as 5 - 6 feet, and generally this is where the coal is thickest , tho according to Mr Vlosak thick coal is found also under the limestone. The slate is invariably full of slips showing internal adjustments since deposition, possibly due to shrinkage.

K-3

The mine is crossed by a number (6?) faults in which the off set is about the thickness of the bed, and the up throw on the south side. The fault plane dips to the north in a number of them at an angle of about 45 degrees. The faults all run about 15 north of west but on the east side of the mine trend more directly east. They run about at rt angles to the generl dip

Collector Cady

Sept 11, 1918

Coal: Survey No. 6 

Mine New Baden

Co. Clinton

Index No.

1417

X.—EXTRA SHEET No.



INDEX

K-1

The coal in the New Baden mine does not show clearly the several divisions into benches noted near Belleville and at Mascoutah. They recognize in this mine only top middle and bottom benches. However examination of the face shows that the other subdivisions are certainly present. That is there is a thin bench just below the top coal which corresponds to the "9-inch", and at the bottom of this bench is very commonly a dirt or clay or sulphur parting. Below this is a layer of rather dirty coal possibly about 24" thick which corresponds to the drift coal at Mascoutah. This is commonly separated from the underlying bench by sulphur or clay. The underlying bench is about 2 ft thick and may be regarded as the "block coal". This has below it generally a sulphur parting, which overlies a thin coal bed 3-4" thick. The blue band is found below this, and at the bottom is the bottom coal. At the bottom of the bottom bench is commonly a layer of "black jack" or hard mother coal apparently impregnated with sulphur. This in places is reported to reach a thickness of 9-12-18 inches rising nearly to the blue band. It is generally only 1-1 1/2" thick. In machine mining the machines generally cut above this "black jack"

This layer of black jack is rather common in the Belleville district. I believe it has been present more or less in all the mines visited.

Collector  
 Mine **Cady** Sept. 11, 1918  
**New Baden** Co. **Clinton**  
 X.—EXTRA SHEET No.

Coal: Survey No. 6   
 Index No. 1417

Symbol

Description

Inches

1st south off 8th east off west rock  
entry

Roof: Limestone caprock  
Clod  $2\frac{1}{2}$ -3"

1 Coal	12
2 Coal	53
3 Sulphur parting	$\frac{1}{4}$
4 Coal	$5\frac{3}{4}$
6 Blue band	1
7 Coal	18
Tape	
	90

(Scale: 1 division = 3 inches).

Sample No.

Can No.

Lab. No.

Collector, **Cady** **Sept 11 1918**

Coal: Survey No. **6**

Mine, **New Baden** Co. **Clinton**

Index No. **1417**

Q.—COAL SECTION SHEET.

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

(a) Relative hardness, **Top coal considered the best especially good blacksmith coal.**

(b) Lustre, **Upper part of middle bench dullest**

(c) Fracture,

(d) Texture,

See

(6) Impurities in coal, other than bedded, **Few clay slips**

(a) Kind,

(b) Position and persistence,

(c) Rejected,

Ease of separation,

See

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

(2) Thickness, **Several feet**

(3) Variation,

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

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 11, 1918**Mine, **New Baden Co. Clinton**

N.—UNDERGROUND SHEET (Geol.)

Coal: Survey No. **6** Index No. **1417**





**PYRITE  
RECOVERY**

See  
Extra  
Sheet  
No.

7. Method of rejection of pyrite
- (1) In mine Commonly rejected by the miner  
where pieces are the size of a hand or larger
- (2) Per cent rejected In one case abt 30 lbs in 16 tons
- (3) At tipple Picked out by car trimmer. Large amount  
scattered around grounds. Possibly 25% of refuse
- (4) Per cent rejected Possible 100-150 lbs a day
8. Per cent of pyrite in rejected lumps Much of pyrite 90% or  
over.
9. Possible daily production of pyrite Possibly 5-7 tons. The  
material is thinner than around Belleville, so that  
percentage of recovery probably less
10. Possibility of future production Fair if price is right
- Company interested**
11. Pyrite ever cleaned and shipped?
- (1) Method No
- (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 See 10

Collector C Cady Date Sept 11 1918 Coal No. 6

Operator So C C & MG Co No. 53

Mine New Baden Co. Clinton

Index No. 1417

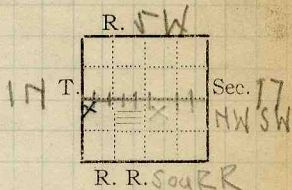
Z PYRITE SHEET (2)



COAL MINING INVESTIGATIONS  
COOPERATIVE AGREEMENT

Mine Name or No., 9

1/2 mile E from New Baden  
Operator, 1912 Southern Coal Mining Co.



Operator, 191

Entrance, shaft. Elev., <sup>Estimated</sup> 453 ft. { above,  
Depth to bottom coal, 326 ft. Alt. 127 below,

SURFACE DATA.

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

33' from surface bed quick sand 8' thick.  
make a lot of water. give trouble in replacing timbers.

same as in oil well.

- 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.

Record of well in office files.

See drill record sheet.

- E. Notes on surrounding area,  
Record of shaft similar to record of well in files.

See

Coal bed name: Local, 6

Collector, K D White

Mine, #9

Survey 6

State No. 1417

Co. Chatham

Co-op. No. 84

UNDERGROUND DATA

F. Thickness of rock above bed worked,  
 (1) Important variations, *see log.*

See

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

*Black slate*

See *Sheet 6*

- (1) Position, *Between Ls. + Coal.*
- (2) Character, *Black sheety slate*
- (3) Persistence, *On part of West side.*
- (4) Other workable coal beds,

See

H. Cap rock, *Limestone*

- (1) Thickness, *see log.*
- (2) Height above coal,

See *Sheet 6*

I. Immediate roof *Ls. + Black slate.*

- (1) Thickness, *see log.* (2) Contact with coal,
- (3) Horizontal variation,  
*Constant.*

See

J. Draw slate. (1) Thickness, *2"-6"* (2) Contacts  
*Clod.*

- (3) Persistence *Over mine*

K. Coal bed: Max. Min. Av. inches

- (1) Benches, *see sections.*
- (a) Position, *sheets 4+5*
- (b) Persistence,

See

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

*see sections sheets 4+5.*

See

- (3) Irregularities in continuity of bed (due to deposition, erosion, or movement).

See *sheets.*

*Faults + a few rolls.*

- (a) Effect on mining,

*1, 2, 3, 4, 5.*

*Faults affect grades.*

See

SECTION				
Ft.	In.	Name	Index	Sym.

Collector, *KOW*

Coal, *6*

State No. **1417**

Mine, *9*

Co. *Christina*

Co-op. No. *84*



# PYRITE

## GEOLOGICAL OCCURRENCE

See  
Extra  
Sheet  
No.

1. Manner Pyrite occurs as plates chiefly in the parting above the 4-inch bench, but also to some extent in the blue band, between block and drift coals and at the top of drift. A few balls in top cl
2. Size of Masses Plates rarely over 1 1/2" thick, commonly 1/2 - 3/4" thick, probable av, about 1/2" for the mine
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 28 8th E. W. Rk	102	1/4	1/4		1/4						102	1/4	2.75	.75
2	1 S 8th E W. rock	90	1/4	3/4		1/4		0	0	0	0	450	1.25	3.75	.80
3	2 S 8th E W. rock	84	2	0		1/8		0	0	0	0	420	2.60	7.80	1.80
4	4 S 5th W E. rock	86	1/2	0		1/4		1/8	1/4	1/4	1/4	430	1.12	3.36	.76
6	Rm 19 4 S 5 W Erk	96										96	.12	.36	.40
7	Rm 22 ditto	1		1/2		1/2		0	1/4	1/4	1/4	480	2.25	6.75	1.4
8	Rm 32 Main E rkc	102	1/2	1		0		0	0	0	0	510	1.50	4.50	.88
9	Rm 23 1 S, 8 E Erk	1/4		1/8		1/8		1/8				408	.62	1.86	.40
10	Rm 33 Back E rock	102	1/4	0		1		0	1/4	1/4	1/4	510	1.50	4.50	.88

4. Notes Total Average 8.07  
.81%

5. Samples.

Label No.	Location in mine	Analyses, etc.

6. Notes

Collector <b>Cady</b>	Date <b>Sept 11, 1918</b>	Coal No. <b>6</b>	
Operator <b>Southern C C &amp; M No.</b>	Co <b>Clinton</b>	Index No.	
Mine <b>New Baden</b>			

Y-PYRITE SHEET (1)



UNDERGROUND DATA (cont'd.)

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

(a) Relative hardness,

(b) Lustre, *Bright to dull.*

(c) Fracture, *Irrregularly hackly to slightly conchoidal.* See

(d) Texture, *Satiny to Banded.*

(6) Impurities in coal, other than bedded,

(a) Kind, *Vertical sulphur streaks and sulphur balls.*

(b) Position and persistence, *Irregular*

(c) Rejected,

Ease of separation,

See

L. Floor: (1) Material *Fire Clay*

(2) Thickness *6'+*

(3) Variation *Constant*

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

*Floor a light gray fire clay, that slacks on contact with the air in small pieces; surface speckled with deposition of soluble salt. Little or no carbon, no carbonized plant remains. Heaves very badly if wet or pillars are robbed.*

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*



State No. *1417*

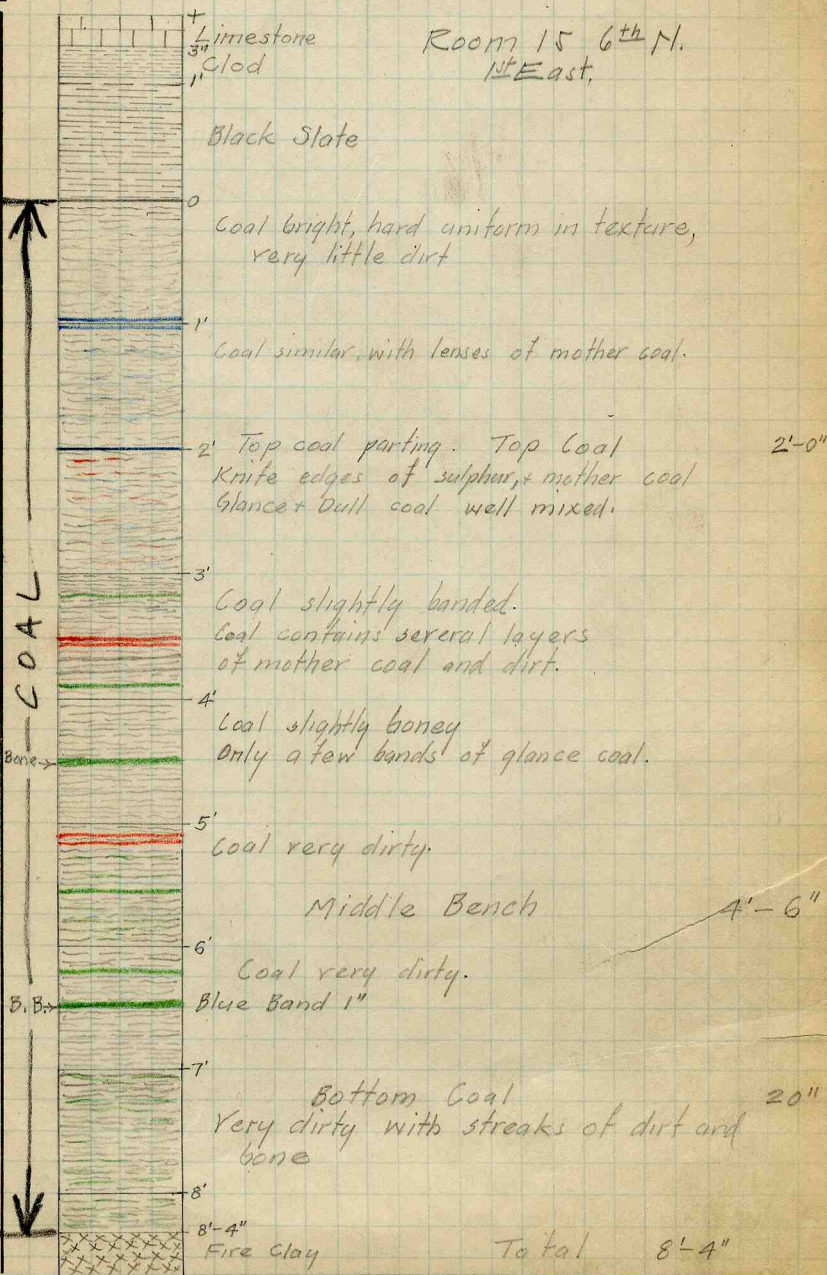
Mine, *9*

Co. *Clinton*

Co-op. No. *84.*



INDEX



Room 15 6th N.  
NEast.

2'-0"

4'-6"

20"

Total 8'-4"

Collector KDWhite  
Mine #9

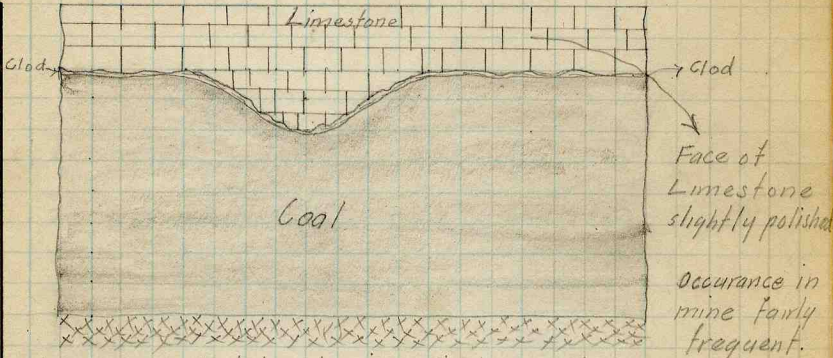
Coal 6  
Co. Clinton

State No. 1417  
Co-op No. 84



INDEX

K<sub>3</sub>



Sketch showing Giralar Roll of Limestone in coal Room 15-6<sup>th</sup> North East.

H Roof is a bluish gray limestone with an irregular contact with the coal hollows are filled with clay. Requires no timbering.

I Over a limited section on the West side of the mine black slate occurs as a roof. It is a very poor roof has to be heavily timbered. The slate is black, sheety, and becomes covered with a white powder on weathering. At times the slate is frozen to the coal. In such cases 9" of top coal is left, as a good clean parting occurs at that point.

Limestone rolls ride down into the black slate similar to sketch for the coal.

H Coal dirtier under Limestone Roof.

No slips occur in Limestone, though they are numerous in the black slate but do not extend down into the coal. No foot lift occurs.

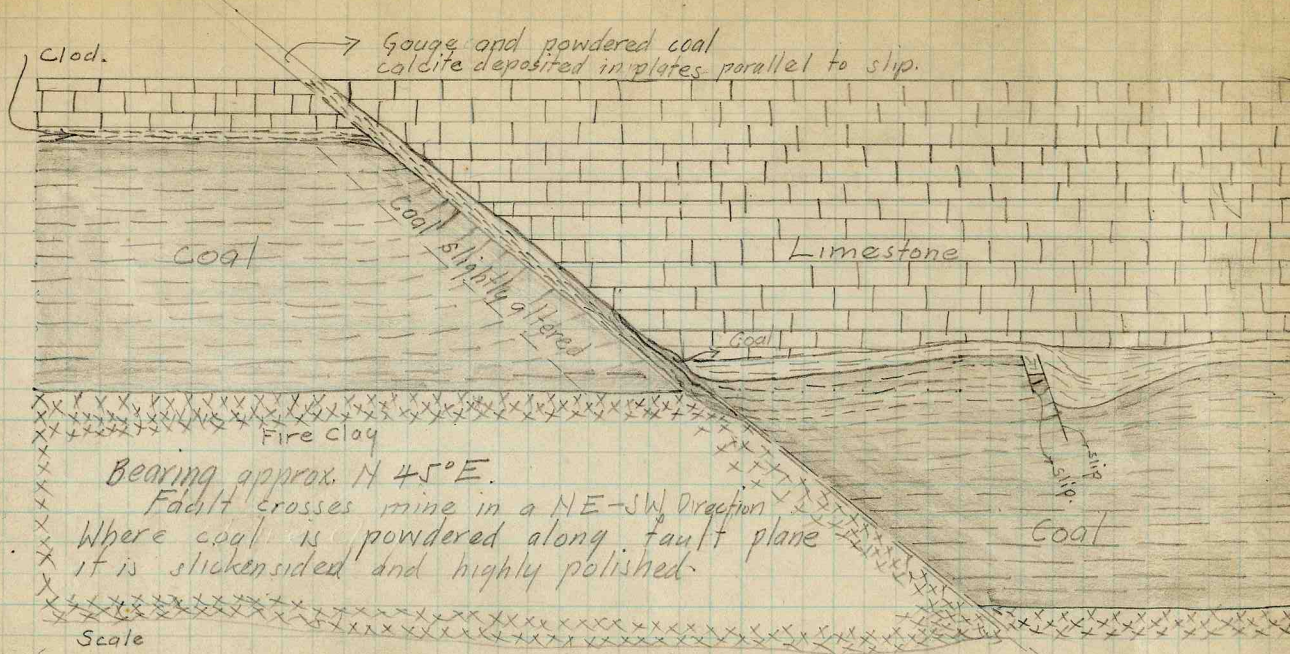
K<sub>5</sub> Coal has cleat very poorly developed.

Collector KDW White  
Mine #9

Coal 6  
Co. Clifton

State No. 1417  
Co-op No. 84

John C. Moore Corporation, Rochester, N. Y. Binder and notes in leaves, each numbered 1000. 102302

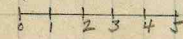


Bearing approx. N 45° E.

Fault crosses mine in a NE-SW direction

Where coal is powdered along fault plane it is slickensided and highly polished.

Scale



Near Face of 6th North<sup>of</sup> East. Main

Gauge along fault plane. Coal only slightly powdered. Little dragging of Coal. Coal is practically level to fault, and slightly harder near it.

INDEX

K3

sketched on west.

State No. 1417

Co-op No. 84

Coal 6

Co. Clinton

Collector K. White  
Mine 9

X-EXTRA SHEET No. 1



John C. Moore Corporation, Roanester, N. I. Binder and notes in leaves, each patented 1900. 102392



A

Limestone face smooth though not slickensided.

Coal very hard brittle

Clod.

Clod

Gouge 1/4"

21°

Coal hard only shattered slightly

Fire slag

Covered

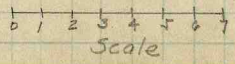
Coal next of fault plane not badly powdered.

700' West a similar fault crosses entry.

Location Main East Entry. The coal dips to the west. Bearing N 70° E. dip slight, not sharp.

East. →

see sketch sheet 3



INDEX

K3

Sketched on wash rib.

State No. 1417

Co-op No. 84

Coal 6

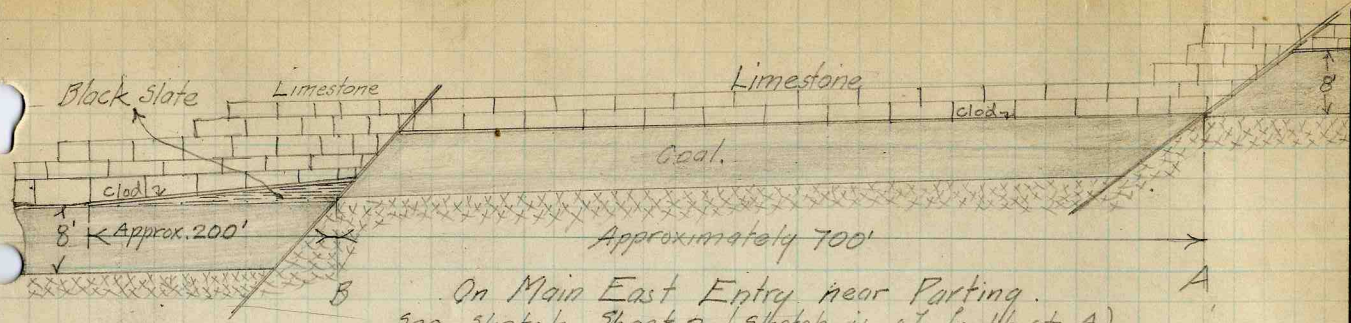
Co. Clinton

Collector K.D. White

Mine 9

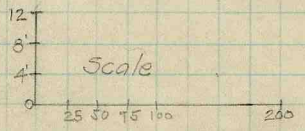
X.—EXTRA SHEET No. 2

JOHN C. MOORE CORPORATION, ROCHESTER, N. Y. BINDER AND NOTES IN LEAVES, EACH PARENTED 196. 102392



On Main East Entry near Parting.  
 See sketch Sheet 2, (sketch is of fault at A)  
 Fault plane at (B) generally similar

Dip is to West. East. →



INDEX

K3

State No. 1417

Coal 6

Co. Clinton

Collector *W. H. Clark*

Mine #9

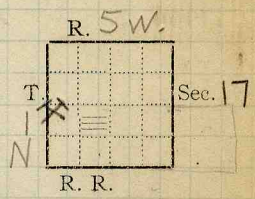
X.—EXTRA SHEET No. 3

Co-op No. 84



### COAL MINING INVESTIGATIONS COOPERATIVE AGREEMENT

Mine Name or No., 9  
1/2 mile SE from New Baden.  
Operator, 191 Southern Coal & Mining Co.



Operator, 191

Entrance, Shaft Elev., ft. { above,  
Depth to bottom coal, ft. Alt. below,

#### SURFACE DATA.

- A. Topography See
- B. Surficial materials, (1) Character See
- (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.,
- (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,

~~This~~ Recently took 20 bbls out from Junction City mine & are trying to refine. Use some for lubrication.

See

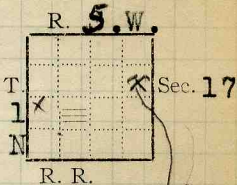
Coal bed name: Local,	Survey <input type="checkbox"/>
Collector,	State No. <b>1417</b>
Mine,	Co. <b>Clinton</b> Co-op. No. <b>84</b>

COAL MINING INVESTIGATIONS  
COOPERATIVE AGREEMENT

Mine Name or No., **9**  
**1/2** mile **S.E.** from **New Baden**

Operator, 191 **Southern Coal & Mining Co.**

Operator, 191



Entrance, **Shaft** Elev., ft. { above,  
Depth to bottom coal, ft. Alt. { below,

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.,
- (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,  
Recently took 20 bbls. oil from Junction City mine and are trying to refine. Use some for lubrication,

See

Coal bed name: Local,  
Collector, **F. H. Kay**  
Mine,

Survey □  
State No. **1417.04**  
Co-op. No. **84**



Operator, \_\_\_\_\_ Date Feb 1, 1916  
 Mine, Southern No 9 Sec. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_  
 Located, \_\_\_\_\_ miles from New Baden Southern R.R.  
 Location in mine, Room 60 ft NE of shaft R. 4 E 1, N 1

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>Top coal</u>	14
	2		<u>Coal</u>	14 1/8
	3		<u>Sulphur</u>	36 1/8
12	4		<u>Coal</u>	36 5/8
	5		<u>Blackjack</u>	54 5/8
24	6		<u>Coal</u>	54 7/8
	7		<u>mother coal</u>	71 7/8
	8		<u>Shale &amp; sulphur</u>	72 7/8
36 25	9		<u>Coal</u>	77 7/8
	10		<u>Sulphur</u>	
48	11		<u>Coal</u>	
	12		<u>mother coal</u>	
60	13		<u>Blue band &amp; sulphur</u>	79 3/8
	14		<u>Coal</u>	96 3/8
	15		<u>Sulphur</u>	
72	16		<u>Coal</u>	
	17		<u>blue band</u>	
84	18		<u>Coal</u>	
	19		<u>Sulphur</u>	
96	20		<u>Coal</u>	
	21		<u>Blackjack</u>	
	22		<u>Coal</u>	
			(Note character and thickness of floor)	
			<u>Floor</u>	
			Total thickness of coal.	963/8

Condition, \_\_\_\_\_ Time, \_\_\_\_\_ hr. \_\_\_\_\_ min.  
 Wt. Gross, \_\_\_\_\_ lbs. Net, \_\_\_\_\_ lbs.

What Nos. shipped by Co.?

Excluded from sample: No. 1, 10, 13  
 Sample represents 79 7/8 in. \_\_\_\_\_ tons.  
 Impurities? How do they occur?  
Bulletin 22, p. 492

Sample No. \_\_\_\_\_ Can No. \_\_\_\_\_ Lab. No. B.M. 2855

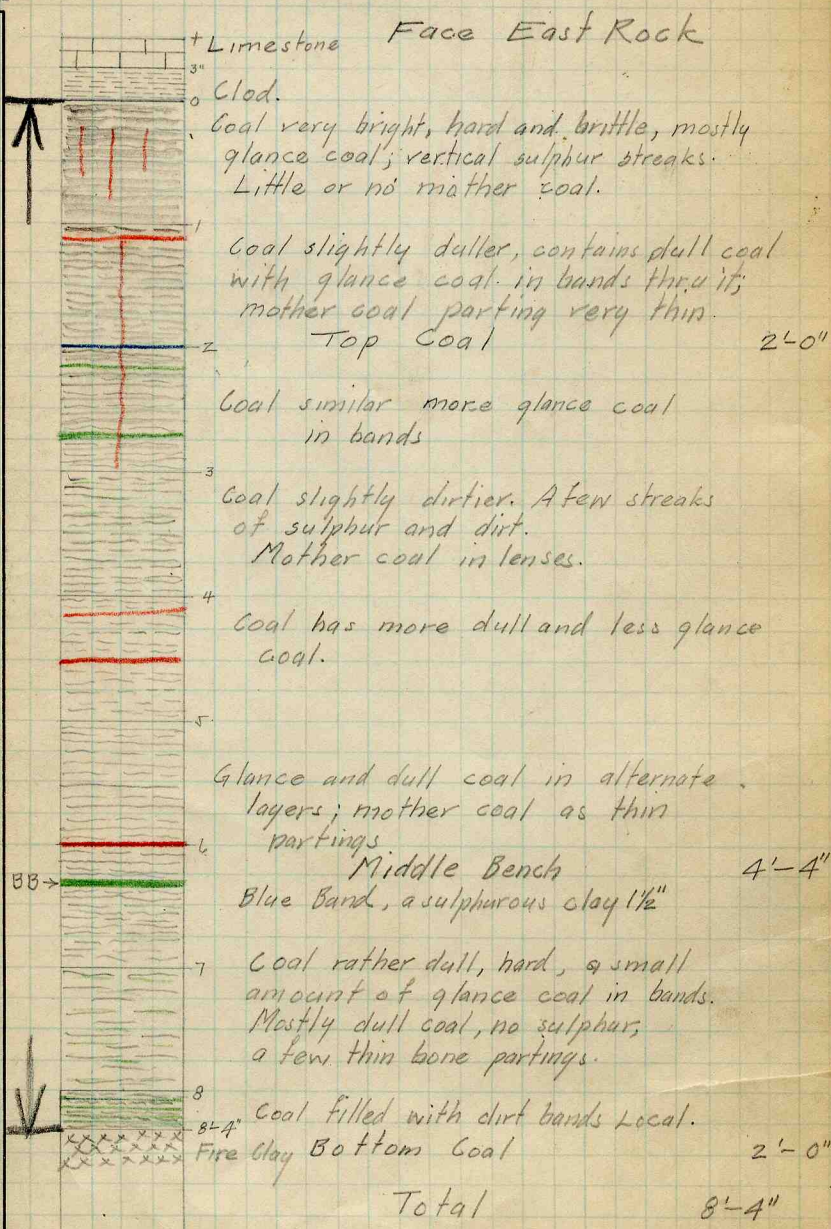
Collector, H. J. Brown Coal: Survey No. \_\_\_\_\_

Mine, H. J. Brown Co. Clinton Index No. 1417



INDEX

K5



Collector RW White  
Mine #9

Coal 6  
Co. Clinton

State No. 1417  
Co-op No. 84



# COAL MINING INVESTIGATION

## COOPERATIVE AGREEMENT

Operator, Southern Coale Mining Co., Date, July 17, 1912  
 Mine, No 9 Located 1/2 miles\* E from New Baden  
 Location in mine, Face of East R. Entry.  
 Total (vertical) depth from surface at point of sampling, 320 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-Limestone		
X 2	Clod		3 ✓
3	Coal-Hard-fairly clean	1	2 ✓
4	Pyrite		$\frac{1}{4}$
5	Coal-Hard-dirty	1	8 $\frac{1}{4}$
X 6	Bone		$\frac{1}{2}$ ✓
7	Coal-rather dirty-hard.	3	5 ✓
x 8	Blue band-		$\frac{1}{4}$ ✓
9	Coal-clean except bottom 5 in.	1	10 ✓
10	Floor-fire clay.		
11			
12	Top coal about 2 ft thick.		
13			
14			
15			
16			
17			
		TOTAL, Coal=8	4 ✓

56

Is coal wet or dry? wet  
 Time exposed, 60 hours, 40 minutes.  
 Weight, 60# gross, net.  
 What are the impurities, and how do they occur? Pyrite & Bone  
horizontally bedded- little pyrite in vent streak  
 What are shipped? 3, 4, 5, 7, 9.  
 What are excluded from the sample? 1, 2, 6, 8

Coal bed, # 6 ✓

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

Town, New Baden Mine, No 9. Co. Southern Coale Mining Co.  
 Sample No. 84 Can No. IS 34 No. 84 1417  
 I.—COAL SAMPLE SHEET. Sampler.

Nebel & Smith

#5073



COAL MINING INVESTIGATION

COOPERATIVE AGREEMENT

Operator, *Southern Coal & Min Co.* Date, *7-9-*, 191*2*  
 Mine, *#19* Located  $\frac{1}{2}$  miles\* *E* from *North Baden*  
 Location in mine, *Face of 1st North West Entry*  
 Total (vertical) depth from surface at point of sampling, *320* 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 tippie).

SECTION OF BED AT POINT SAMPLED.

No.	DESCRIPTION.	FEET.	INCHES.
X1	Blacktop Roof - black shale		
X2	Top coal - about 8 in		$\frac{1}{2}$
3	Coal - fairly clean - hard	2	$7\frac{1}{2}$
X4	Pyrite & bone		$\frac{3}{8}$
5	Coal - dirty	3	$1\frac{1}{8}$
X6	Bone - blue band		$\frac{1}{8}$
7	Coal	1	$\frac{9}{8}$
8			
9			
10	Floor fire clay		
11			
12			
13			
14			
15			
16			
17			
	Coal TOTAL,	7	7

Is coal wet or dry? *Dry* ✓  
 Time exposed, *0* hours, *30* minutes.  
 Weight, *55#* gross, net.

What are the impurities, and how do they occur? *bone & pyrite horizontally bedded - little CaCO<sub>3</sub>*

What are shipped? *3, 5, 7*  
 What are excluded from the sample? *1, 2, 4, 6.*

Coal bed, *#6* ✓  
 \*Direction (N., NE., etc.). †Nearest railway station.  
 Town *New Baden* Mine, *#9* ✓ Co. *Southern coal and Min. Co.*  
 SAMPLE NO. *84* CAN NO. *54 D. 25* No. *#84*  
 I.—COAL SAMPLE SHEET. Sampler, *Smith + Nobel* — *1417*

# 5074





COAL MINING INVESTIGATION

COOPERATIVE AGREEMENT

Operator, Southern Coal Mining Co. Date, July 9 1912  
 Mine, # 9 Located 1/2 miles E from New Baden  
 Location in mine, Room 6th North off Main East  
 Total (vertical) depth from surface at point of sampling, 320 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	Roof - grey limestone		
X 2	Clod		5
X 3	Black draw slate		10
4	Coal - clean bright	3	6 $\frac{1}{2}$
5	Pyrite		$\frac{1}{4}$
6	Coal - dirty	2	8 $\frac{1}{2}$
X 7	Bone & a little sulphur		$\frac{1}{2}$
8	Coal - clean		4 $\frac{1}{2}$
X 9	Bone - blue band		1
10	Coal - dirty	1	7
11		77	
12	Floor - fire clay		
14	"Top coal" is even 2 ft thick and fairly hard - No top coal is left up.		
15			
16			
17			
TOTAL,		8	3 $\frac{1}{4}$

Is coal wet or dry? dry  
 Time exposed, 60 hours, 55 minutes.  
 Weight, 60 gross, net.  
 What are the impurities, and how do they occur? Bone, mother of coal and a little pyrite horizontally bedded  
 What are shipped? 4, 5, 6, 8, 10  
 What are excluded from the sample? 1, 2, 3, 7, 9  
 Coal bed, # 6

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

Town, New Baden Mine, No. 9. Co. Southern Coal Mining Co.  
 Sample No. 84A Can No. ISGS 32 No. 84 1417  
 I.—COAL SAMPLE SHEET. Sampler, Nebel & Smith.  
Clinton #5081



Symbol	Description	Inches
(1 division=3 in.)	USBM, Bull 22, p 491-2	

## NEW BADEN. SOUTHERN No. 9 MINE.

*Sample.*—Bituminous coal; Illinois field; (Illinois No. 24) analyses Nos. 2854, 2855 (p. 83).

*Mine.*—Southern No. 9, a shaft mine at New Baden, on the Southern Railway.

*Coal bed.*—Herrin coal (Belleville, No. 6) of the United States Geological Survey. Carboniferous age, Carbondale formation. It here lies nearly horizontal, with a general northeast dip. Its average thickness at this mine is 7 feet 6 inches. The roof is limestone and black shale, the shale where present underlying the limestone; the floor is a hard, fine, gray clay. Depth of shaft, 320 feet.

Two sections were measured and sampled by J. W. Groves and W. J. von Borries on February 1, 1906, as noted below:

*Sections of coal bed in Southern mine No. 9, near New Baden.*

Section.....	A	B
	2854	2855
Laboratory No.	Ft. in.	Ft. in.
Roof shale.....		
Top coal.....	0 8	1 2
Coal.....	1 8	
Sulphur.....	0 8	0
Coal.....	0 8	1 10
Blackjack.....	0 2	0 2
Coal.....	0 3	1 6
Mother coal.....	0 2	
Shale and sulphur.....		0 1
Coal.....	0 5	1 5
Sulphur.....	0 5	0 1
Coal.....	0 5	0 5
Mother coal.....	0 1	
Blue band and sulphur.....		0 1 1/2
Coal.....	0 10	1 5
Sulphur.....	0 1	
Coal.....	0 1	
Blue band.....	1 8	
Coal.....	0 1 1/2	
Sulphur.....	0 6	
Coal.....	0 1	
Blackjack.....	0 6	
Coal.....	0 1	
Floor, fire clay.....	0 4	
Thickness of section.....	8 3 1/2	8 3/8
Thickness of coal sampled.....	7 5 1/8	6 7 3/8

<sup>a</sup> Not included in sample.

Section A (sample 2854) was measured in an entry 400 feet northwest of the shaft, in north entry 1, off west entry 1.

Section B (sample 2855) was measured in a room 600 feet northeast of the shaft, in room 4, off east entry 1, off north entry 1.

For results of tests of this coal, see mention of specific tests as follows—steaming tests: U. S. Geol. Survey Bull. 332, p. 98; Bureau of Mines Bull. 23, pp. 61, 157; producer-gas tests: U. S. Geol. Survey Bull. 332, p. 99; Bureau of Mines Bull. 13, pp. 121, 273; washing tests: U. S. Geol. Survey Bull. 332, p. 99; Bull. 336, p. 14; coking tests: U. S. Geol. Survey Bull. 332, p. 99; Bull. 336, pp. 22, 28, 38.

For chemical analyses see part I of this bulletin, p. 83; also U. S. Geol. Survey Bull. 332, p. 98.

Collector,

Coal: Survey No. 6

Mine. #9

Co. Clinton

Index No. 1417.04

Q.—COAL SECTION SHEET.



Operator, \_\_\_\_\_ Date *Feb 1, 1906*  
 Mine, *Southern No 9* Sec. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_  
 Located, \_\_\_\_\_ miles from *New Baden on Southern R.R.*  
 Location in mine, *400 ft. NW 2 shaft in N 1, N 1*

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>Top coal</i>	8
	2		<i>Coal</i>	28
12	3		<i>Sulphur</i>	28 1/8
	4		<i>Coal</i>	36 1/8
24	5		<i>Blackjack</i>	36 7/8
	6		<i>Coal</i>	39 7/8
36	7		<i>mother coal</i>	40
36.5	8		<i>Shale + sulphur</i>	45
	9		<i>Coal</i>	45 1/8
48	10		<i>Sulphur</i>	50 1/8
	11		<i>Coal</i>	50 3/8
60	12		<i>mother coal</i>	60 3/8
	13		<i>Blue band + sulphur</i>	60 1/2
	14		<i>Coal</i>	80 1/2
72	15		<i>Sulphur</i>	82
	16		<i>Coal</i>	88
84	17		<i>Blue band</i>	88 1/8
	18		<i>Coal</i>	94 1/8
	19		<i>Sulphur</i>	95 1/8
96	20		<i>Coal</i>	99 1/8
	21		<i>Blackjack</i>	
	22		<i>Coal</i>	
			(Note character and thickness of floor)	
			<i>Floor, timber</i>	
			Total thickness of coal.	99 1/8

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

Excluded from sample: No. *1, 17, 21*  
 Sample represents *895 1/2* in. \_\_\_\_\_ tons.  
 Impurities? How do they occur?  
*Bulletin 22, 492*

Sample No. \_\_\_\_\_ Can No. \_\_\_\_\_ Lab. No. *B.M. 2854*  
 Collector, *J. J. Moore* Coal: Survey No. \_\_\_\_\_  
 Mine, *A. J. Von Borries* Co. *Clinton* Index No. *1417*  
**R.—COAL SAMPLE SHEET.**

17-IN-5W

## Clinton County

### New Baden:-

Southern Coal & Coke Mining Co. -

Main office, 100 W. Main St., Belleville,  
320' to top of vein at shaft

Workings:

1 Mile W. of shaft.

1 1/4 " SW " "

1 1/4 " SE " "

1 1/2 " E " "

Appears to be slight dip to E.

To the S.W. from shaft is a grade rising to the S.W., about 1/2 mile from shaft it commences, perhaps rises 20±' in 1/4 mile then flattens off again.

Several faults in mine, maximum displacement - 8± ft. or about thickness of coal. Down throw on the N.

### Trenton:

About in 1915± that last mine was worked.

### Ariston.

Elev. of old mine, 472 - 300' to top coal, as near as could be learned.