

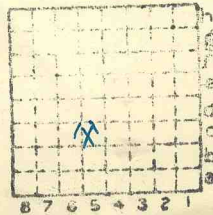


Form 180

Madison CC.

Mi. # 208

Co. # 353



Sec.	5
T.	4
R.	5

Index No.

0105 C5

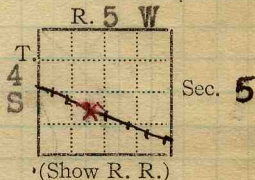


Town, **Tilden**
 Local Authority, **Mr. Thackston**
Asst. Dis. Supt.

512 Skinner
 Surface alt., **519 5/2** ft.
 Depth to coal, **205** ft.
 Alt. top coal, **314** ft.
 Thickness: Av. **72** in.
 Max. in., Min. in.

Level: Auth., **Mine notes**
 Owned by *Great Western*
 Method, *Coal Co.*
Bell. 511.

R. R., **9C** *From Ry profile*
711. Pet #18 #93
 Location: authority, **Mine notes**
G.H. Cady



Aver #2

GEN'L COAL REPT.

Operator **353** Mine Name or No.

1901

1918 Tilden C. & M. Co **Crystal**

Successor to

Date **1917**

Succeeded by **Madison Coal Corporation** **Crystal**

Date **Standard Oil Bldg. Chicago**

Succeeded by

Date

PRODUCTION.

U. S. No.

1926	<i>Daily exp.</i>	<i>2600 Tons</i>					
1925-26	<i>Idle (Lept. of mines)</i>						
1927	<i>- 0 -</i>						
1928	<i>- Idle.</i>						

Mining suspended - march 1924
Shafts filled - Nov. 1931

mine map listed under Great Western C. C.

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

Analyses No. **12562-3-4-5-6-7**

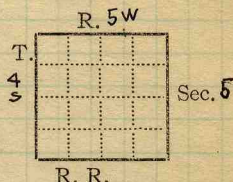
Examined by **Abd 1927** Ref.

Coal bed name: Local **SHIPPING MINE** Survey No. **6**
 County **Randolph** Index No. **0105b.33**

K.—ACTIVE SHIPPING OR LOCAL COAL MINE. *vide 5 yrs (1927)*



Mine Name or No., **Crystal**
 mile from **Tilden**
 Operator, 1915 **Madison Coal Corporation**
 Operator, 1917 **Tilden Coal & Mining Co**



Entrance, **Shaft** Elev., ft. { above,
 { below,
 Depth to ~~top~~ coal, **194** ft. Alt.
top SURFACE DATA.

A. Topography, **Gently rolling, low morainic** See
 B. Surficial materials. (1) Character,

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

Nothing noted of special significance about drift

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. **None**

See drill record sheet,

E. Notes on surrounding area,

COUNTY NO.

353

Coal bed name: Local, **7** Survey No. **6**

Collector, **G.H. Cady Sept. 3, 1918**

Mine, **Crystal** Co. **Randolph**

Index No. **01050**



K. (5) Physical character of coal in benches, **Coal shows no unusual characteristics. Dull and glance coal as usual.**

(a) Relative hardness,

(b) Lustre,

(c) Fracture,

(d) Texture,

See

(6) Impurities in coal, other than bedded, **Few hor., sulfur plates**

(a) Kind,

(b) Position and persistence, **Not persistent**

(c) Rejected, **No unless thk** Ease of separation,

See

L. Floor: (1) Material, **Rather crumbly fire clay**

(2) Thickness,

(3) Variation, **Persistent**

(4) Note character, condition, tendency to heave, relation to undercutting commercial value. **Said to be rather friable in spots**

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 3 1918**
 Mine, **Crystal** Co. **Randolph**
 N.—UNDERGROUND SHEET (Geol.)

Coal: Survey No. **6**

Index No.

0105b



INDEX

H&I

The roof conditions in the Crystal mine are said to be typical of those in all the mines along the I C RR between Coulterville and well towards Belleville.

The roof of over one-half the mine is rock. That is, the cap rock comes down directly on the coal. The lower inch to three inches may be rather shelly and form a sort of slow draw slate, but in many places it appears to be solid. Possibly about $\frac{1}{4}$ of the mine has a black slate roof which pinches in beneath the cap rock and in places attains a thickness of between 3 and 4 feet. This is a typical black slate with no specially marked characteristic. It is noteworthy that the coal is thicker by 3 or 4 inches under the black slate than elsewhere. That is it is about 76-78 inches thick under the slate and about 72 inches under the rock. Very locally the black slate contains white top. In the Crystal mine this was pointed out to me as a black slate certain layers of which become covered with a whitish or bluish film upon exposure to the mine air. It is reported impossible to hold this white top; but from the appearance of the entries it is also impossible to hold the black slate.

The cap-rock makes an excellent and strong roof which requires very little support even across rooms 25-30 feet wide. The lower surface is often irregular and hummocky.

At places in the mine either a lens of impure argillaceous earthy limestone wedges in between the coal and the cap-rock or the cap-rock itself becomes earthy and argillaceous. At such places it is very difficult to hold and will cave in to heights of 10-12 feet above the top of the coal. In certain places in the mine a wedging in of earthy fossiliferous shaly limestone was

Collector Cady Sept 3, 1918

Mine Crystal Co. Randolph

X.—EXTRA SHEET No. 1

Coal: Survey No. 6

Index No.

01056



INDEX

H&I

very apparent and the mine manager states that such is always the case where the massive argillaceous rock was present. I was not able to determine, however the presence of the true cap rock above this thick massive earthy limestone and am inclined to believe they grade laterally into each other even tho there is an apparent or actual wedging at the edges.

This massive earthy rock forms the chief roof problem in this mine and similar conditions are reported in adjacent mines. They were seen this same day in the Council mine just to the east. It is much more important than the white top which is of relatively little importance.

PP The condition is spotty, however, and in spite of its seriousness where it does occur there is not enough of it to overbalance the greater proportion of very favorable conditions beneath the caprock.

K

The coal of this mine lies in the several benches characteristic of the coal of the Belleville field. The coal is less dirty than I expected to find it. The sulphur occurs in fairly continuous plates rarely more than $\frac{1}{4}$ " thick and the dirt bands are not as thick as I expected from what I saw in the mines near Sparta two years ago. In general the coal gives the impression of being of fairly good quality. Probably better than the coal of Peoria county and possibly on a par with that of Fulton County.

Collector

Cady Sept 3, 1918

Coal: Survey No. 6

Mine Crystal

Co. Randolph

Index No.

0105

X.—EXTRA SHEET No. 2



Symbol	Description	Inches
	End of main north entry	
	Roof rock	
1	Coal	17
2	Sulphur plate	$\frac{1}{4}$
3	Coal	10 $\frac{1}{2}$
4	Sulphur plate	$\frac{1}{8}$
5	Coal	16 $\frac{1}{2}$
6	Mothercoal	$\frac{1}{4}$
7	Coal	11
8	Sulphur	$\frac{1}{8}$
9	Coal	5
10	Blue band	2
11	Coal	13
		<hr/>
		75 $\frac{3}{4}$
	Floor: fire clay	
	Tape 6' 1" (73)	
10	Blue band varies from 1 - 2"	
8	Persistent band sulphur locally	
	$\frac{1}{2}$ " - 1"; commonly $\frac{1}{4}$ " or less Where not sulphur clay-mothercoal present	
6	Mothercoal band persistent up to about $\frac{1}{2}$ " thick	
4	Fairly persistent line of thin plate sulphur commonly less than $\frac{1}{4}$ "	
2	Persistent sulphur plate commonly less than $\frac{1}{4}$ " below the top bench of coal	

(Scale: 1 division = 3 inches).

Sample No.	Can No.	Lab. No.
Collector, Cady	Sept 3, 1918	Coal: Survey No. 6
Mine, Crystal	Co. Randolph	Index No. 0105



Symbol	Description	Inches
--------	-------------	--------

Face of back north entry

Roof: rock

1	Coal	20
2	Sulphur plate up to $\frac{1}{4}$ "	$\frac{1}{8}$
3	Coal	14
4	Mother coal	$\frac{1}{2}$
5	Coal probably includg sulphur band	13
6	Blue band	1 $\frac{3}{4}$
7	Coal	13

In above section Probably some coal (10-20) and plate of sulphur missed in this section between 2 and 3 as the coal was about 6 ft in height

(Scale: 1 division = 3 inches).

Sample No.	Can No.	Lab. No.
Collector, Cady	Sept 3, 1918	Coal: Survey No. 6 <input type="checkbox"/>
Mine, Crystal	Co. Randolph	Index No. 0105 <input type="checkbox"/>
Q.—COAL SECTION SHEET.		



Symbol	Description	Inches
	End of main south entry	
	Roof: black slate	
	1 Coal	15
c	2 Sulphur streak	15 1/8
	3 Coal	26 7/8
	4 Bone and mother coal	26 5/8
	5 Coal	38 5/8
c	6 Mothercoal streak	12
	9 Coal	48 1/2
	10 Mothe coal	48 3/8
	11 Coal	60 7/8
c	12 Mothercoal	60 1/2
	13 Coal	67
	14 Blueband	67 1/4
c	15 Coal	80 1/4
	Floor: fireclay	81 1/4
	Tape: - 6'4"	
	XXXXXX	

(Scale: 1 division = 3 inches).

Sample No.	Can No.	Lab. No.
Collector, Cady	Sept 3, 1918	Coal: Survey No. 6 <input type="checkbox"/>
Mine, Crystal	CoRandolph	Index No. 0105b

Q.—COAL SECTION SHEET.



Symbol Description Inches

Face of 7th west off main north entry

Roof: rock

Rock			
	1	Coal	12
C	2	Sulphur parting	
	3	Coal	23
	4	Bone	23 1/2
	5	Coal	27
C	6	Sulphur parting	
	7	Coal	36
Bn	8	Mothercoal	37
C	9	Coal	52
C	10	Bone	58 1/2
	11	Coal	58
	12	Blue band	59
	13	Coal	73

12
11 1/2
4
9 1/2
15 1/2
4 1/2
1
14

73

Floor: fire clay

Bn
C
BB.
C
xxx

(Scale: 1 division = 3 inches).

Sample No. _____ Can No. _____ Lab. No. _____
 Collector, **Cady** Sept 3, 1918 Coal: Survey No. **6**
 Mine, **Crystal** Co. **Randolph** Index No. **0105**
 Q.—COAL SECTION SHEET.



Symbol	Description	Inches
Room 14 off the 8th east on the north side		
Roof: rock		
Rock	1 Coal	13
	2 Sulphur — (1/16 - 1/4)	1/8
C	3 Coal	21 1/2
	4 Mothercoal —	34
	5 Coal	13
	6 Sulphur streak —	
	7 Coal	5
	8 Blue band (other places in room 1 1/2")	1/8
C	9 Coal	14
Tape: - 73"		
Floor: fire clay		67 1/2
C		
C		
	B.B	
C		
XXXX		

(Scale: 1 division = 3 inches).

Sample No. _____ Can No. _____ Lab. No. _____
 Collector, **Cady** Sept 3, 1918 Coal: Survey No. 6
 Mine, **Crystal** Co. **Randolph** Index No. **0105b**
 Q.—COAL SECTION SHEET.



TOWN

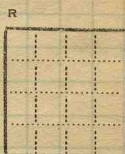
TOWNSHIP

MAP NO.

COMPANY

Tilden - Crystal Mine.

T



FARM

AUTHORITY

mine dept. from mine map.

ELEVATION

HOLE NO.

COLLECTOR

Moulton.

DATE DRILLED

No.	STRATA	THICKNESS		DEPTH	
		FEET	IN.	FEET	IN.
<p><i>Crystal Mine</i></p>					

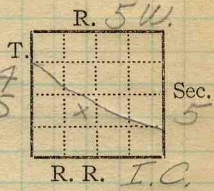
County

Tilden, Ill

Index No.



Mine Name or No., *Crystal*
1/4 mile *E* from *Tilden*
Operator, 1911 *Madison Coal Corp.*



Operator, 191

Entrance, *Shaft* Elev., *500* ft. $\left\{ \begin{array}{l} \text{above, } \textit{500} \text{ level} \\ \text{below,} \end{array} \right.$
Depth to ~~bottom~~ coal, *220* ft. Alt. *280*

SURFACE DATA.

- A. Topography, *Rolling* See
- B. Surficial materials. (1) Character, *Clayey*
fill
- (2) Thickness, *30'?* (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,

~~ABANDONED~~
~~ABANDONED~~

See

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

Collector, *Wilson*

Mine, *Crystal* Co. *Randolph* Index No. *0105133*

L.—SURFACE SHEET (Geol.)



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

(a) Relative hardness,

Bottom Coal Much Harder than top.

(b) Lustre,

From dull at bottom to bright at top.

(c) Fracture,

Conchoidal to hackley

(d) Texture,

See

(6) Impurities in coal, other than bedded,

(a) Kind,

Irregular calcite veins.

(b) Position and persistence,

(c) Rejected,

No.

Ease of separation,

See

L. Floor: (1) Material,

Fireclay

(2) Thickness,

Ave 18"

(3) Variation,

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

Heaves badly when wet or when coal mined out too wide in drift.

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, *WILSON*Coal: Survey No. *6* Mine, *Crystal*Co. *Randolph*Index No. *0105.33*



Operator, *Madison Coal Corp* Date *May 9 1921*
 Mine, *Crystal* Sec. *5* T. *45* R. *5W*
 Located, *1/4* miles from *Tilden*
 Location in mine, *12-1/2 W. off the Main S - Mt face.*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			<i>Loose Shale Roof</i>	
	<i>1/2</i>	<i>1</i>	<i>Coal - Glance</i>	<i>3 1/2</i>
		<i>2</i>	<i>Pyrite</i>	<i>3 9/8</i>
	<i>3</i>	<i>3</i>	<i>Coal</i>	<i>15 5/8</i>
<i>12</i>		<i>4</i>	<i>Pyrite</i>	<i>15 7/8</i>
	<i>4</i>	<i>5</i>	<i>Coal</i>	<i>21 3/8</i>
	<i>5</i>	<i>6</i>	<i>Shale -</i>	<i>21 9/8</i>
	<i>6</i>	<i>7</i>	<i>Coal</i>	<i>26 9/8</i>
<i>24</i>		<i>8</i>	<i>Shale -</i>	<i>27</i>
	<i>7</i>	<i>9</i>	<i>Coal</i>	<i>42</i>
	<i>8</i>	<i>10</i>	<i>Shale -</i>	<i>42 3/4</i>
	<i>9</i>	<i>11</i>	<i>Coal</i>	<i>60 3/4</i>
<i>36</i>		<i>12</i>	<i>Shale - Blue Band</i>	<i>61</i>
		<i>13</i>	<i>Coal</i>	<i>73</i>
	<i>10</i>			
<i>48</i>			<i>Sack #2</i>	
	<i>11</i>			
			(Note character and thickness of floor)	
<i>60</i>			Total thickness of coal. <i>71"</i>	
	<i>12</i>			
	<i>13</i>			
<i>72</i>				

Condition, *As mined* Time, hr. *60* min.
 Wt. Gross, *25* lbs. Net, lbs.
 What Nos. shipped by Co.?
 Excluded from sample: No. *8, 10, 12*
 Sample represents *69 1/4* in. tons.
 Impurities? How do they occur?

Sample No. Can No. *N-21-12* Lab. No. *12563*
 Collector, *Netzeband* Coal: Survey No. *6*
 Mine, *Crystal* Co. *Randolph* Index No. *0105.33*
 R.—COAL SAMPLE SHEET.



Operator, *Madison Coal Corp.* Date *May 9, 1921*
 Mine, *Crystal* Sec. *53* T. *4S* R. *5W*
 Located, *1/4* miles from *Tilden.*
 Location in mine, *Face of Main South Entry*

GRAPHIC SECTION

DESCRIPTION OF SECTION (AT POINT SAMPLED)

In.	No.	No.	(Note character and thickness of roof)	Inches
			<i>Slate Roof</i>	
	1	1	<i>Coal</i>	<i>13</i>
<i>13</i>	2	2	<i>Pyrite & Clay</i>	<i>18</i>
	3	3	<i>Coal</i>	<i>5 1/2</i>
<i>5</i>	4	4	<i>Ch'coal & Pyrite</i>	<i>4 1/2</i>
	5	5	<i>Coal</i>	<i>12</i>
<i>18 1/8 18 3/8</i>	6	6	<i>Ch'coal</i>	<i>4</i>
	7	7	<i>Coal</i>	<i>3 1/2</i>
<i>2 3/8</i>	8	8	<i>Clay Mixture</i>	<i>12</i>
<i>27</i>	9	9	<i>Coal</i>	<i>9</i>
<i>30</i>	10	10	<i>Coal</i>	<i>44</i>
<i>36</i>	11	11	<i>Clay & Sulphur</i>	<i>142</i>
<i>39</i>	12	12	<i>Coal</i>	<i>18 1/2</i>
<i>42</i>	13	13	<i>Coal</i>	<i>3 1/2</i>
<i>45</i>	14	14	<i>Blue Band - Sh & Pyrite</i>	<i>1</i>
<i>48</i>	15	15	<i>Coal</i>	<i>12</i>
<i>51</i>			<i>Fire clay</i>	
<i>54 3/8</i>				
<i>57</i>				
<i>60</i>				
<i>63</i>				
<i>66</i>				

Note: Some slate fell in sample but was extracted as well as possible.
 (Note character and thickness of floor)

Total thickness of coal. *65 1/2* "

Condition, *As Mined* Time, hr. *60* min.
 Wt. Gross, *25* lbs. Net, lbs.
 What Nos. shipped by Co.?

Sack 1

Excluded from sample: No. *4, 8, 14*
 Sample represents *63 1/2* in. tons.
 Impurities? How do they occur?

Sample No. *12562* Can No. *11-21-11* Lab. No. *12562*

Collector, *Netzeband* Coal: Survey No. *6*

Mine, *Crystal* Co. *Randolph* Index No. *010533*



Operator, *Madison Coal Corp.* Date *May 9*
 Mine, *Crystal* Sec. *5* T. *43* R. *5W*
 Located, *1/4* miles from *Tilden*
 Location in mine, *Face of 10th E. S. Entry*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			<i>Bad Slate Roof</i>	
	1	1	<i>Coal</i> 9	9
		2	<i>Ch'coal & Pyrite</i> 9 1/4	9 1/4
	2	3	<i>Coal - Pyrite lenses</i> 19 3/4	10 1/2
		4	<i>Play Mixture</i> 20	14 1/2
	3	5	<i>Coal</i> 35	15
		6	<i>Shale</i> 36	1
	4	7	<i>Coal</i> 56 1/2	20 1/2
		8	<i>Shale</i> 57	1 1/2
	5	9	<i>Coal</i> 61	4
		10	<i>Blue Band</i> 62	1
		11	<i>Coal</i> 72 1/2	10 1/2
	6		<i>Fireclay</i>	
	7		<i>Sack 3</i>	
	8			
	9		(Note character and thickness of floor)	
	10		Total thickness of coal. <i>74"</i>	
	11		Condition, <i>As mined</i> Time, hr. <i>60</i> min.	
			Wt. Gross, <i>25</i> lbs. Net, lbs.	
			What Nos. shipped by Co.?	
			Excluded from sample: No. <i>4, 6, 8, 10</i>	
			Sample represents <i>70</i> in. tons.	
			Impurities? How do they occur?	

Sample No. _____ Can No. *N-21-13* Lab. No. *12564*
 Collector, *Netzeband* Coal: Survey No.
 Mine, *Crystal* Co. *Randolph* Index No. *0105.33*
R.—COAL SAMPLE SHEET.



Operator, *Madison Coal Corp.* Date *May 9, 1921*
 Mine, *Crystal* Sec. *5* T. *45* R. *5 W.*
 Located, *1/4* miles from *Tilden*
 Location in mine, *Face at Brick Norn N Entry*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			<i>Shale Top</i>	
	1	1	<i>Coal 7</i>	<i>7</i>
	2	2	<i>Sh. & Pyrite 7 1/2</i>	<i>4 - 1/2</i>
	3	3	<i>Coal 20 1/2</i>	<i>13</i>
	4	4	<i>Shale 20 3/4</i>	<i>14</i>
	5	5	<i>Coal 27 3/4</i>	<i>17</i>
	6	6	<i>Shale 28</i>	<i>18 - 1/4</i>
	7	7	<i>Coal 40</i>	<i>12</i>
	8	8	<i>Shale & Pyrite 40 1/4</i>	<i>14</i>
	9	9	<i>Coal 44</i>	<i>4</i>
	10	10	<i>Ch' coal 44 1/2</i>	<i>1/2</i>
	11	11	<i>Coal 63 1/2</i>	<i>19</i>
	12	12	<i>B. B. - Sh. & Pyrite 64</i>	<i>1/2 - 1/4</i>
	13	13	<i>Coal 75</i>	<i>11</i>
			<i>Sack 5</i>	
			(Note character and thickness of floor)	
			Total thickness of coal. <i>75</i>	
		Condition, <i>As Mined</i>	Time, <i>hr. 60 min.</i>	
		Wt. Gross, <i>20 lbs.</i>	Net, <i>lbs.</i>	
What Nos. shipped by Co.?				
Excluded from sample: No. <i>2, 12</i>				
Sample represents <i>73 1/4</i> in. tons.				
Impurities? How do they occur?				

Sample No. _____ Can No. *N-21-15-* Lab. No. *12566*
 Collector, *Netzeband* Coal: Survey No. *6*
 Mine, *Crystal* Co. *Randolph* Index No. *0105.33*
R.—COAL SAMPLE SHEET.



Operator, *Madison Coal Corp.* Date *May 9, '21*
 Mine, *Crystal* Sec. *5* T. *4 S.* R. *5 W*
 Located, *1/4* miles from *Tilden*
 Location in mine, *5th W off Main S*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			<i>Shale Roof</i>	
		1	<i>Coal - FeS₂ & CaCO₃ stringers</i>	<i>1.15'</i>
		2	<i>Pyrite</i>	<i>1.15 1/4"</i>
		3	<i>Coal</i>	<i>2.00 1/4"</i>
		4	<i>Shaloy Clay</i>	<i>2.00 3/8"</i>
	<i>2</i>	5	<i>Coal</i>	<i>3.15 3/8"</i>
		6	<i>Ch'coal</i>	<i>3.15 7/8"</i>
		7	<i>Coal</i>	<i>3.35"</i>
	<i>4</i>	8	<i>Clay</i>	<i>3.36"</i>
		9	<i>Coal</i>	<i>3.40"</i>
		10	<i>Clay & Pyrite</i>	<i>3.40 1/8"</i>
		11	<i>Coal</i>	<i>4.65"</i>
		12	<i>Clay & Pyrite - B.B.</i>	<i>4.75"</i>
		13	<i>Coal</i>	<i>5.65"</i>
			<i>Engineers Tape Used.</i>	
			<i>Sack 4.</i>	
			(Note character and thickness of floor)	
			Total thickness of coal. <i>5.9'</i>	

Condition, *As Mined* Time, *60* min.
 Wt. Gross, *24* lbs. Net, *lbs.*
 What Nos. shipped by Co.?

Excluded from sample: No. *12*
 Sample represents *69* in. tons.
 Impurities? How do they occur?

Pyrite & CaCO₃ stringers

Sample No. _____ Can No. *N-21-14* Lab. No. *12565*
 Collector, *Notzband* Coal: Survey No. *6*
 Mine, *Crystal* Co. *Randolph* Index No. *0105.33*
R.—COAL SAMPLE SHEET.



Operator, *Madison Coal Corp.* Date *May 9, '21*
 Mine, *Crystal* Sec. *5* T. *45* R. *5W*
 Located, *2 1/2* miles from *Tilden*
 Location in mine, *6th Fract. Main N6*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			<i>Slate Roof - Clod</i>	
		<i>1</i>	<i>Coal - FeS₂ impurities</i>	<i>25 1/2</i>
		<i>2</i>	<i>Shale 26</i>	<i>1/2</i>
		<i>3</i>	<i>Coal - Glance 29 1/2</i>	<i>3 1/2</i>
		<i>4</i>	<i>Ch. coal 30</i>	<i>1/2</i>
		<i>5</i>	<i>Coal 44</i>	<i>1A</i>
		<i>6</i>	<i>Pyrite & Sh. 44 1/2</i>	<i>1/4</i>
		<i>7</i>	<i>Coal 52 1/4</i>	<i>8</i>
		<i>8</i>	<i>B.B., FeS₂ & Sh 52 3/4</i>	<i>12-1</i>
		<i>9</i>	<i>Coal 63</i>	<i>11</i>
			<i>Fireclay</i>	
			<i>Sack 6</i>	
			<i>10" short?</i>	
			(Note character and thickness of floor)	
			Total thickness of coal. <i>73</i>	

Condition, *As Mined* Time, hr. *60* min.
 Wt. Gross, *25* lbs. Net, lbs.

What Nos. shipped by Co.?

Excluded from sample: No. *2, 4, 8*

Sample represents *71* in. tons.

Impurities? How do they occur?

Sample No. Can No. *N-21-16* Lab. No. *12567*

Collector, *Netzeband* Coal: Survey No. *6*

Mine, *Crystal* Co. *Randolph* Index No. *0105.33*



259693

INDEX

(36713-500-7-20)

43



Scale 1 Div = 1'

Slip on Main S. 3000' from shaft

This type of slip is quite common in the roof, but the coal is seldom affected any more than shown in sketch.

In many places the coal is overlain by about 2" of shale and then from 2 to 8" of hard black lime, the "bastard" rock, which will not hold up well, and which makes an especially bad roof where one of the slips as shown in sketch occurs.

Collector Wilson

Index No.

010533

X

EXTRA NO. 1

County

Randolph

ILLINOIS COAL MINE NOTES

TOWN *Selden* T.4S R.5W S.2W/4 6 *Randolph CO.*
 COAL BED # 6 DATE *June 17 08* COLLECTOR *DeWolf - Udden.*
 OPERATOR *Bessemer Washed coal CO* MINE *Crystal*
 HEAD OFFICE
 CAPACITY MARKETS, FRT. ~~01056~~

ENTRANCE *shaft 211'* 01055
 CAGE ENGINES

SCREENS DRUM *USED IN COOP. REPT. 1912*

STORAGE
 VENTILATION
 GAS, SOURCE *Elev. 519 Shaw.*

COAL THICKNESS, AV. *72* MAX. MIN. ELE. *above sea* 301 FT.

SECTION LOCATED

No.	In.	No.	In.
1		7	
2		8	
3		9	
4		10	
5		11	
6			

TAPES

NOT SHIPPED NOT INCLUDED CAN SAMPLE

PHYSICAL PROPERTIES BY NOS.

ROOF FLOOR
 DIP CLEAT
 FAULTS, ETC.
 MACHINES
 HAULAGE CARS
 DRAINAGE
 WORKING SYSTEM
 ENTRIES, MAIN CROSS ROOMS
 PILLARS, MAIN CROSS ROOM
 DRAWN TIMBERS

Note also: Variation in coal, impurities, roof, structure.
 Collect records, analyses, fossils. Note land values, etc.

NB 140 p 18 NB 138 p 17

01056
~~01056~~



DRILL RECORD.

b

0106

COUNTY *Randolph*

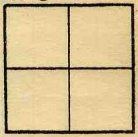
TOWN
T. 4S

R. 5W

MAP No. *02408*
SEC. 6 *NW 1/4*

FARM
OPERATOR
AUTHORITY
ELEVATION
COLLECTOR

HOLE No.
Crystal



DATE DRILLED

No.	STRATA	THICKNESS		DEPTH	
		FEET	IN.	FEET	IN.
1	<i>Bessemer washed coal Co.</i>				
2	<i>Crystal mine Tilden</i>				
3	<i>Trace 16" of west entry</i>				
4	<i>(Room 16 6' west of main South)</i>				
5					
6					
7					
8					
9					
10					
11					
12	<i>"white top soapstone"</i>				
13	<i>slate 3"</i>				
14	<i>coal 17"</i>				
15	<i>sulfur 16"</i>				
16	<i>coal 2 6 1/2"</i>				
17	<i>dirt 3/8" excl.</i>				
18	<i>coal 1"</i>				
19	<i>Sulfur 16"</i>				
20	<i>coal 28" 16"</i>				
21	<i>Blue band 7/8"</i>				
22	<i>coal 13"</i>				
23	<i>Clay</i>				
24					
25	<i>Total 6' 2 1/2" ✓</i>				
26					
27					
28					
29					
30					
31					
32	<i>Randolph.</i>				
33					
34					

Randolph
0105b
~~02408~~