



Form 180 Blue

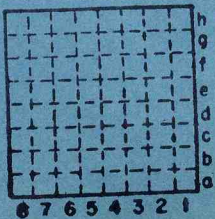
F3 - aircraft

Blue Hill C. C.,  
"Orchard"

Mi. #168

486

5-1



Sec. 2

T. 9 S.

R. 3 E.

Index No.

0702 E2

✓



Mine originally operated by: (1)

BLAINE COAL Co.

Date

MARION

1951

Original name or number: BLUE HILL  
Illinois Coal Report 1951 p. 66

LATER OPERATORS

Date

Operator

Name or No.

2 1952 Blaine ~~Coal~~ Coal Co., Marion

3  
4 : Not opening date for S-1 - See other  
5 shut. Reopen. date 49.50. MB  
6  
7  
8  
9  
10  
11  
12  
13  
14

\*Also owners

#See ownership sheet

Railroad, Wagon, Strip, Idle, Abandoned

Shaft

IDENTIFICATION

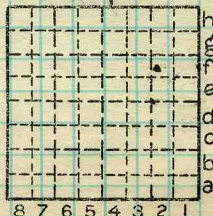
County No. 486

Coal No. 6

Coal Report No. 51

Quad.

County WILLIAMSON



Sec. 2

T. 9 S.

R. 3 E.

Index No.

COAL MINE OPERATOR







Mine originally operated by: (1) Orchard Coal Co.

Date 1918

Original name or number: Illinois Coal Report p. 1882- 1930

LATER OPERATORS

Date	Operator	Name or No.
2 1929	Ohio Valley C. Co.	HBD. 1930
1930	Charter Coal Co. ?	Charity 1932?
3 1933	OK Blue Hill Coal Co. ??	
4 1937	Marvel Coal Co.	
5 1939	M & S Coal Co.	
6 1944	Blue Hill Coal Co	
7 1948	" " " "	" Orchard "
8 1957	BLAINE CC	
9		
10		
11		
12		
13		

14 NW SE NE (1948)  
 710' N 1620' E of SW corner of NW SE NE  
 \* Also owners #See ownership sheet

1944  
 or

Railroad, Wagon, Idle, Abandoned Shaft

Marion & Eastern R.R.

IDENTIFICATION

County No. 486

Coal No.

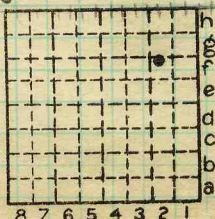
□ 6

Quad. W. Frankfort

Part

County Williamson

5'8"



Sec. 2

T. 9 S.

R. 3 E.

Index No. E2

0702-f2

COAL MINE OPERATOR

Air Shaft = E2 Only

S-1





No.	Period						Tons	
	Mo.	Day	Year	Mo.	Day	Year		
	1	1	1931	12	31	1931		
			32			32		
			33			33		
			34			34	92	970
1			35			35	98	407
1			36			36	86	398
1	1	1	1937	12	31	1937	51	382
S-1	1	1	1938	12	31	1938	22	270
						1939	26	391
						1940	21	201
						1941		Idle
						1942-43		Idle
						1944	145	023
						1945	158	830
						1946	101	501
						1947	133	915
						1948	96	584

SUMMARIES

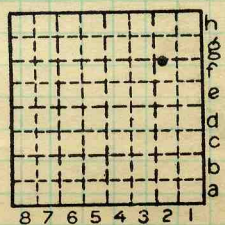
No.	to	No.		
1918		1930	556	725
			834	500

Railroad, Wagon, Idle, Abandoned

IDENTIFICATION

County No. 486 Coal No. 6

Quad. W Frank Part  
County Williamson



Sec. 2  
T. 9 N.  
R. 3 E.  
W.

Index No. E2  
0702-22

COAL MINE—PRODUCTION



LOCATION AND ELEVATION

Location: side R. R. side R. R. side Highway No.

on top. map Location sheet Map Files #14-100-24

Elevation: Method, 1. Est. ( ) ft. 2. Inst. (kind Company Level) 458.7 ft.

By Company Rnc Data sheet

DEPTH

Authority Paul Colp, Mgr To coal 161 ft. Authority Rail to rail ft. Top of coal above rail. (Est. Rule) ft. To coal 160 ft.

ALTITUDE OF TOP OF COAL

By estimated data By instrumental data 298 ft.

Thickness

Max. in. Min. in. Aver. 62 in. 66

GEOLOGICAL DATA

Mine notes, date 1921 Coop No. Pyr. inv. Coal Ash inv.

CHEMICAL DATA

Analyses Face U. I. 3 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 #168 U. I. B. M. Others

Classification R. I. 138 UCI 147

Misc. tests: Coking. Cleaning Boiler

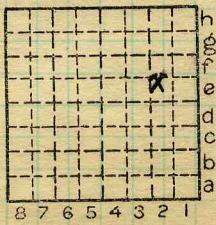
Published descriptions:—

013° N, 122° E, 686' S, 136' W, NE cor. SENE?

IDENTIFICATION

County No. 486 Coal Report No S.1 Quad. W. Frankfort County Williamson

Coal No. 6 Part



Sec. 2 T. 9 N. S. R. 3 E. W. Index No. 0702

COAL MINE LOCATION AND DATA





Location and Elevation Data

Location: Exact  Approximate  
 (Approximate only if no trace or record of original exists)

Location by Company mine map

Date \_\_\_\_\_ Notebook No. \_\_\_\_\_ Page \_\_\_\_\_

Looseleaf ref. \_\_\_\_\_

Map files No. 14-100-24

Description of location

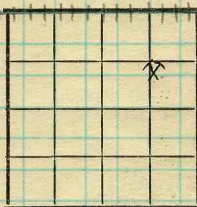
Position in sec.,  $\frac{1}{4}$  sec., 40 acres

\_\_\_\_\_ feet from North line

\_\_\_\_\_ feet from East line

\_\_\_\_\_ feet from South line

\_\_\_\_\_ feet from West line



Sec. 2

T. 9	S.
R. 3	E.

Farm \_\_\_\_\_

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

Company \_\_\_\_\_

Charter Coal Co.

Blue Hill Coal Co.

No. Orchard mine

County No. ~~271~~ 271

Elevation 458.72 ft.

By Company

Method: Level, transit, alidade, hand level

level

Elevation of \_\_\_\_\_

Height of point above ground \_\_\_\_\_

Date \_\_\_\_\_ Notebook \_\_\_\_\_ P. \_\_\_\_\_

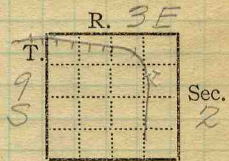
Looseleaf ref. Mine notes - Wmson 0702.87

Map files No. \_\_\_\_\_

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



Mine Name or No., *Orchard Mine*  
 $\frac{1}{2}$  mile SE from *Pittsburg*  
 Operator, 1911 *Orchard Coal Co*



Operator, 1933, Nov. 19 *Blue Hill Coal Co.*

(*Vernon Wells Coal Co., Ry Exch. Bldg., St. Louis, Mo.*) R.

Entrance, *shaft* Elev., *458.72* ft. <sup>above,</sup> *sea level*  
 (below,

Depth to bottom coal, *161* ft. Alt. *297.72*

SURFACE DATA.

A. Topography, *Rolling* See

B. Surficial materials. (1) Character,

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

*Quick sand reported in shaft but depth & thickness not known.*

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.

*For shaft log write: -*

See drill record sheet,

E. Notes on surrounding area,

See

Coal bed name: Local,

Survey No. *6*

Collector, *Netze band*

Mine, *Orchard*

Co. *Williamson*

Index No. *0702.87*





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

- (a) Relative hardness, *Bottom coal very hard compared to Winson Co. Rest ordinary.*
- (b) Lustre, *Glaucedull layers ( $\frac{1}{4}$  to  $\frac{1}{2}$ " ) top, rest bright.*
- (c) Fracture, *Decidedly blocky*
- (d) Texture, *Laminated* See XI
- (6) Impurities in coal, other than bedded,
- (a) Kind, *Pyrite lenses  $\frac{1}{8}$ " to  $\frac{1}{2}$ " , calcite fracture fillings*
- (b) Position and persistence, *Top coal-pyrite  
Calcite thruout coal.*
- (c) Rejected, *Lenses above  $\frac{3}{8}$ "* Ease of separation,

See

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

- (2) Thickness, *12" Total thickness unknown*
- (3) Variation, *No variation as to character*

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

*Light gray shale; soft, plastic when wet; no tendency to heave; used to undercut upon; value unknown.*

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*Coal: Survey No. 6 Mine, *Orchard* Co. *Williamson*Index No. *0702.87*



Cleat N43E S34E 2nd SE.  
N39E S36E 1st N 1st W 2nd SW

cleat very well defined but no use is made of it in mining the coal.

The gray shale lenses in between the coal and the black shale. The bottom of the black shale apparently remains at the same level while the coal dips down as the gray shale thickens. Observed, however, only in one place, 1st SE entry.

Fault 4th N 2nd E 1st N.W.  
Strike S44E Dips 89° SW.  
780' N & 670' E from bottom Dip all in roof shale, does not affect coal.

Mr. Hartwell has never seen the limestone caprock, but it is reported to be present. In several places falls in the roof have shown the rock for 13' but only gray shale was found.

The black shale is a hard, black, carbonaceous, fissile shale. It makes a fair roof but comes down in time.



Operator, *Orchard Coal Co* Date *July 7, 1921*  
 Mine, \_\_\_\_\_ Sec. *2* T. *9S* R. *2E*  
 Located, *1/2* miles from *Pittsburg* *37*  
 Location in mine, *Room #19 off 2nd N*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
<i>4 1/2</i>	<i>1</i>		<i>Black "Slate" Roof</i>	
	<i>2</i>	<i>1</i>	<i>Coal pyrite stringers</i>	<i>4 1/2</i>
		<i>2</i>	<i>Pyrite lens</i>	<i>1/2</i>
		<i>3</i>	<i>Coal</i>	<i>32 1/2</i>
		<i>4</i>	<i>Pyrite lens</i>	<i>1/2</i>
<i>32 1/2</i>	<i>3</i>	<i>5</i>	<i>Coal</i>	<i>20</i>
		<i>6</i>	<i>BB (chale)</i>	<i>1</i>
		<i>7</i>	<i>Coal</i>	<i>11 1/2</i>
<i>1/2</i>	<i>4</i>		<i>Tap 69</i>	
<i>20</i>	<i>5</i>			
<i>1</i>	<i>6</i>			
<i>11 1/2</i>	<i>7</i>			
			(Note character and thickness of floor)	
			Total thickness of coal.	<i>69</i>

Condition, *As Mined* Time, *3* hr. *57* min.  
 Wt. Gross, *25* lbs. Net, *3* lbs.  
 What Nos. shipped by Co.?  
 Excluded from sample: No. *6*  
 Sample represents *68* in. tons.  
 Impurities? How do they occur?

Sample No. *7* Can No. *W-21-48* Lab. No. *12881*  
 Collector, *Wilson* Coal: Survey No. *6*   
 Mine, *Orchard* Co. *Williamson* Index No. *0702-87*  
 R.—COAL SAMPLE SHEET.



Operator, *Orchard Coal Co.* Date *July 7, 1921*  
 Mine, *Orchard* Sec. *2* T. *9s* R. *2E*  
 Located, *1/2* miles from *Pittsburg* *37*  
 Location in mine, *Face of 2nd S off the Main E*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
	$\frac{1}{2}$		Black "Slate" Roof	
		1.	Coal	$1\frac{1}{2}$
	3	2.	Pyrite	$\frac{1}{8}$
		3.	Coal	$2\frac{1}{4}$
		4.	Charcoal	$\frac{1}{4}$
	4	5.	Coal	$2\frac{5}{8}$
		6.	Pyrite	$\frac{1}{4}$
		7.	Coal	$1\frac{3}{8}$
	5	8.	BB (shale)	$\frac{1}{2}$
		9.	Coal	$\frac{6}{8}$
		10.	Pyrite	$\frac{1}{8}$
	6	11.	Coal	$2\frac{3}{4}$
	7		Tape $70\frac{1}{4}$	
	8			
	9			
	10			
(Note character and thickness of floor)				
Total thickness of coal.				$70\frac{1}{4}$

Condition, *As Mined* Time, *2* hr. *30* min.  
 Wt. Gross, *30* lbs. Net, lbs.  
 What Nos. shipped by Co.?

Excluded from sample: No. *8*  
 Sample represents *69 3/4* in. tons.  
 Impurities? How do they occur?

Sample No. *3* Can No. *W-21-49* Lab. No. *12882*

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

Mine, *Orchard* Co. *Williamson* Index No. *0702.87*

Operator, *Orchard Coal Co.* Date *July 7, 1921*  
 Mine, *Orchard* Sec. *2* T. *9s* R. *2E*  
 Located, *1/2* miles from *Pittsburg*  
 Location in mine, *Face 2<sup>nd</sup> N off 1<sup>st</sup> W off 2<sup>nd</sup> SW*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			<i>Gray Shale</i>	
<i>11</i>	<i>1</i>	<i>1</i>	<i>Top Coal Roof 11"</i>	
		<i>2</i>	<i>Coal with pyrite &amp; calcite</i>	<i>23 1/2</i>
		<i>3</i>	<i>Pyrite</i>	<i>1/2</i>
		<i>4</i>	<i>Coal</i>	<i>13 1/2</i>
<i>23 1/2</i>	<i>2</i>	<i>5</i>	<i>Pyrite</i>	<i>1/8</i>
		<i>6</i>	<i>Coal</i>	<i>16</i>
		<i>7</i>	<i>BB sh. + pyrite</i>	<i>2</i>
<i>1/2</i>	<i>3</i>	<i>8</i>	<i>Coal</i>	<i>8 1/2</i>
			<i>Tape 63 1/2</i>	<i>62 1/2</i>
<i>13 1/2</i>	<i>4</i>			<i>2 1/3</i>
				<i>64 1/8</i>
<i>1/2</i>	<i>5</i>			
<i>16</i>	<i>6</i>			
<i>2</i>	<i>7</i>			
<i>8 1/2</i>	<i>8</i>			
(Note character and thickness of floor)				
Total thickness of coal.				<i>74 1/2</i>
Condition, <i>As Mined</i>		Time, <i>1</i> hr. <i>50</i> min.		
Wt. Gross, <i>20</i> lbs.		Net, <i>15</i> lbs.		
What Nos. shipped by Co.?				
Excluded from sample: No. <i>1, 3, 7</i>				
Sample represents <i>61</i> in. tons.				
Impurities? How do they occur?				

Sample No. *A* Can No. *W-2150* Lab. No. *12883*  
 Collector, *Wilson* Coal: Survey No. *6*  
 Mine, *Orchard* Co. *Williamson* Index No. *0702.87*

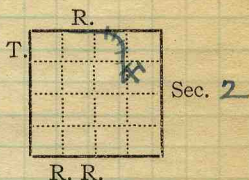


Mine Name or No.,

mile from

Operator, 191 **Crab Orchard Coal Co**

Operator, 191



Entrance, **shaft** Elev., **455** ft. (above, sea level, below,)  
 Depth to <sup>top</sup> ~~bottom~~ coal, **160** ft. Alt. **295**

SURFACE DATA.

A. Topography,

See

B. Surficial materials. (1) Character, **Sand & gravel**

(2) Thickness, **71**. (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc.

*Gravel contains much water. Shaft concreted to rock but water comes in through shaft lining. Poor poor judgement used in sinking shaft*

C. Outcrops, (1) Character,

See

(2) Structure,

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,

*Mine just being opened. In about 75 ft on the west 50 feet on east*

See

Coal bed name: Local,

Survey No.

Collector, **Cady June 29, 1918**

Mine, **Crab Orchard**

Co. **Williamson**

Index No. **0702**





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

(a) Relative hardness,

*No notable diff. from other coal in vicinity*

(b) Lustre,

(c) Fracture,

(d) Texture,

See

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

(a) Kind,

(b) Position and persistence,

(c) Rejected,

Ease of separation,

See

## L. Floor: (1) Material,

(2) Thickness, ?

(3) Variation, ?

*fine clay, gray*

(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*Coal: Survey No. Mine, *Crab Orchard Co. Williams*Index No. *0702*

Samples:

C18-20 Sulfur lense occurring  
in the band about 75 feet west  
of shaft

C18-21 Sulfur picked up around  
tipple

Collector: Cady June 29, 1918

Co. Crab Orchard Coal Co

Coal No 6

Pyrite sheet Williamson Co. Index No

0702



1. Manner: Pyrite occurs mainly as lenses in the blue band on the west side of the mine. The mine is in less than 100 feet east away from shaft, so the occurrence may be local. Mr. Harris, pit boss seemed to think about half the band ~~was~~ is pyrite. This would make an average thickness of about  $\frac{1}{2}$  inch or about 2% of coal on this side. If this percent. would possible be practical to save as it has to be cleaned from coal any way.

2) Size. Extreme  $2" \times 6" \times 8" \pm$   
 $\frac{1}{4}" - \frac{1}{2}"$  sizes  $\times 3 \times 4$  - much more common  
 This is about the only available sulphur found.

Collector: Cady June 29 1918 Coal No 6

Co. Crab Orchard Coal Co

Mine No 1

Pyrite sheet

Williamson Co.

Index No.

0702