



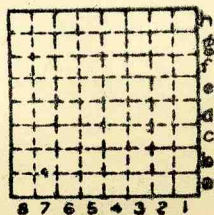
Form 180

OLD Ben # 11

mi. # 666, BM 64

253

5-9



Sec.	14
T.	6
R.	1

Index No.

0514



TOWN _____ TOWNSHIP _____ Map No. _____
 COMPANY _____ No. _____ R. _____

FA
 AT *Coal Report 1913*

PROSPECTIVE MINES

The Chicago, Wilmington and Vermillion Coal Co. is sinking a new modern mine, which will be fire-proof throughout. The main shaft is down about 500 feet and they expect to strike coal within the next few feet, while the air shaft is down a little over 400 feet. This mine is located four miles northwest of West Frankfort on a branch of the C., B. & Q. R. R.

The Ohio Valley Mining Co. is sinking a new and up-to-date mine, which will also be constructed of fire-proof material. The main shaft is down now about 100 feet, the depth of the coal at this point is about 500 feet. This mine will be known as their mine No. 9, which is located two miles east of West Frankfort.

The third shaft in the district to be completed under the new law, requiring them to be constructed of fire-proof material, was sunk by the Christopher Coal Mining Co., near Christopher, Franklin County.

The recently completed shafts were sunk by a method which is of much present day interest. Instead of employing reciprocating drills mounted on tripods or shaft bars, the company adopted hand feed hammer drills of the Sullivan Class D.B. 19 pattern. These were equipped with 1¼-inch hexagonal hollow steel, sharpened with 6-point rose bits and operated by air at 80-pounds pressure by a single stage air compressor having a capacity of 130 cubic feet of free air per minute. Air was furnished these drills through a 3-inch pipe, which was later used for automatic air signals.

The main shaft is 13x21 feet in the clear and was commenced May 27, 1912, and reached the coal vein, 12 feet in thickness, on November 27, 1912, 593 feet from the surface. The air shaft, 12 feet by 24 feet, was started a few days later and reached the coal in practically the same length of time. The formation penetrated varied from soft shale to the hardest kind of limestone.

The shafts are curbed in the usual way, using 6x12 yellow pine timbers, and a solid concrete wall was used down to the depth of 41 feet and rests on 12-inch I beam horn-set.

Steel buntoms were used in both shafts and the sides were lined between the concrete with fire-proof material.

The escapement shaft is built in the same way and is equipped with a main and material hoist, the cage being 10 feet 6 inches by 6 feet. All material will be lowered in this mine at this shaft. The steps are made of

COAL IN ILLINOIS

247

Air will be furnished to the mine by a large fan run by two 150 H.P., A. C. General Electric motors.

The mine is equipped with electric haulage and will eventually use twenty-four haulage motors, including gathering motors; a number of these locomotives are arranged for tandem operation, so that in case of breakdowns, substitution can be made. All tandem locomotives can be used either as 6-ton gathering locomotives or 12-ton main line haulage locomotives.

The tippie shaker screen and tower at escape shaft was erected by the Wisconsin Steel and Iron Company of Milwaukee, Wis. The engine-house at hoisting shaft is 100x146 feet and is built of brick; the engine-house at escape shaft, blacksmith shop, office and other out-buildings are also built of brick, which makes this a fire-proof plant throughout.

This mine is located about one and three-fourth miles northwest of the Zeigler District Colliery Company's mine, and two and one-half miles northwest of Christopher, on the C., B. & Q. R. R., and has five loading tracks, one track to be used exclusively for loading box cars, thus not interfering with the regular loading.



Mine originally operated by: (1) ~~Zeigler District Coal Co.~~
 Date 1906 1913 Christopher CC. # 1

Original name or number:
 Illinois Coal Report p. ~~1882-1936~~

LATER OPERATORS

Date	Operator	Name or No.
2 ⁵ 1916 1915	Christopher Coal Mining Co	#1 ²
3 1917	Old Ben Coal Corp	#11
4		
5		

Coal Rept 1915

CHANGE OF NAME.

Zeigler District Colliery Company, North mine, to Christopher Coal Mining Co., No. 1; Christopher Coal Mining Co., No. 1 to No. 2 mine; Southern Illinois Coal Co. to Taylor Mining Co.; William A. Wather to Williams & Lassak; William Gemper to Strong & Clark; Sam Hazel to Jess Allen; Clements & Doolin to R. L. Clements; Herman McDaniel to J. F. Raulston.

IMPROVEMENTS

9
10
11
12
13
14

350' W of NE Corn. SW SW

(1948)

1946 OK

* Also owners #See ownership sheet

Railroad, Wagon, Idle, Abandoned Shaft

C.B. & J. R.R.

1954

IDENTIFICATION

County No. 253

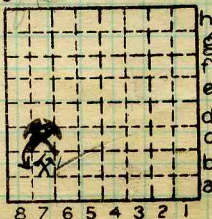
Coal No. 6

Quad. 264-Herrin

Part

County

(1948) 9'6"



Sec. 14

T. 6 N. S.
 R. 1 E. W.
 Index No.

Franklin

COAL MINE OPERATOR

0514 b7



11

(Sheets) COAL PRODUCTION (Sheet)

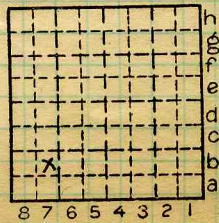
No.	Period						Tons	
	Mo.	Day	Year	Mo.	Day	Year		
	1	1	1931	12	31	1931	41	552
idle						1932		
idle						1933		
idle						1934		
idle						1935		
						1936	101	835
9	1	1	1937	12	31	1937	489	106
S-9	1	1	1938	12	31	1938	372	606
						1939	469	668
						1940	526	645
s-9	1	1	1941	12	31	1941	612	747
S-9	1-1		1942	12-31		1942	794	615
						1943	1	054 665
						1944	1	222 923
						1945	1	085 542
						1946		909 900
						1947		912 402
						1948	1	101 178
						1949		696 459
						1950		772 972
						1951		625 734
						1952		526 629
						53		90 505

SUMMARIES

No.	to	No.	1906-1930	13	457	373
				13	600	760

Railroad, Wagon, Idle, Abandoned IDENTIFICATION

S-9
 County No. 253 Coal No. 6
 Quad. 264 Part
 County Franklin



Sec. 14
 T. 6
 R. 1
 Index No.

COAL MINE—PRODUCTION

0514 B7



LOCATION AND ELEVATION

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

on top. map Location sheet **Map Files #11-73-270**

Elevation: Method, 1. Est. () _____ ft.
 2. Inst. (kind **PT**) **492.66** ft.

By **NB603 p.13 Co. Elev.** Data sheet
107 DEPTH

Authority **J. Dunn** To coal **607** ft.
 Authority Rail to rail _____ ft.
 Top of coal above rail. (Est. Rule) _____ ft.
 To coal **588** ft.

ALTITUDE OF TOP OF COAL

By estimated data _____
 By instrumental data **-95** ft.

Thickness
 Max. **147** in. Min. **102** in. Aver. **108** in. **114**

GEOLOGICAL DATA

Mine notes, date **1918**

Coop No. **BM64** Pyr. inv. Coal Ash inv.

CHEMICAL DATA

Analyses Face	U. I.	B. M. 30892-3-4-5-6	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
#BM64	U. I.	B. M.	Others

Classification **R.I. 129 U.C.I. 145**

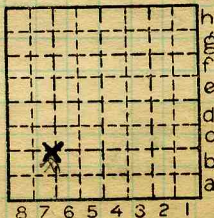
Misc. tests: Coking. Cleaning Boiler

Published descriptions:—

Railroad, Wagon, Idle, Abandoned

IDENTIFICATION

County No. **253** Coal No. **6**
 Quad. **Herrin** **264** Part
 County **Franklin**



Sec. **14**

T. **6** S.
 R. **1** E.

Index No. **0514-76**

COAL MINE LOCATION AND DATA



Location and Elevation Data

Location: Exact ~~Approximate~~

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

Location by W. B. Roe

Date 5-23-31 Notebook No. 603 Page 13-109

Looseleaf ref.

Map files No. 11-73-27c

Description of location

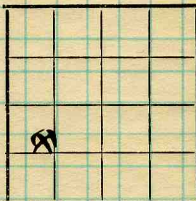
Position in sec., 1/4 sec., 40 acres

_____ feet from North line

_____ feet from East line

_____ feet from South line

_____ feet from West line



Sec. 14
T. 6 ~~N~~
S.
R. 1 ~~W~~
E.

Farm _____

Other description: _____

No. _____

Company Old Ben Coal Co

No. 11

County No. ~~63~~ 63

Elevation 498.4 ft.

By W. B. Roe

498.4
6.8
505.2

Method: Level, transit, alidade, hand level

Elevation of Alidade
~~transit~~ Casing

Height of point above ground 0

Date 5-23-31 Notebook 603 P. 13-109

Looseleaf ref.

Map files No. 11-73-27c

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

County Franklin Quadrangle Herrin Index No. 0514



Location and Elevation Data

Location: Exact ~~Approximate~~

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

Location by W. B. Roe

Date 5-23-31 Notebook No. 603 Page 13-106

Looseleaf ref. _____

Map files No. 11-73-27c

Description of location

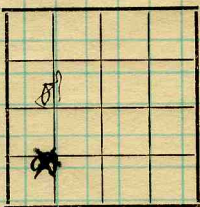
Position in sec., 1/4 sec., 40 acres

4050 feet from North line

_____ feet from East line

_____ feet from South line

1050 feet from West line



Sec. 14
T. 6 ~~N~~
R. 1 ~~W~~
S.
E.
W.

Farm _____

No. _____

Other description: _____

Company Old Ben Coal Co

No. 11

County No. 253253

492.7
485.9
6.8

Elevation 485.9 ft. Co. Elev. 492.66

By W. B. Roe (Use this)

Method: Level, transit, alidade, hand level

Alidade
Ground

Elevation of _____

Height of point above ground 0

Date 5-23-31 Notebook 603 P. 13-106

Looseleaf ref. _____

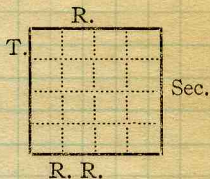
Map files No. 11-73-27c

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

County Franklin Quadrangle Henri Index No. 0514.7b
(45576-1M-10-30)



Mine Name or No., *Old Ben No. 11.*
 $\frac{1}{4}$ mile *n.* from *Christopher*
 Operator, 191



Operator, 191

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

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., 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,

See

Coal bed name: Local,

Survey No.

Collector,

Mine, *No. 11*

Co. *Franklin* Index No. *0514*



F. Thickness of rock above bed worked, *588 1/2 ft.*

(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, *gray clay shale*

(1) Thickness,

(2) Height above coal,

See

I. Immediate roof,

(1) Thickness,

(2) Contact with coal,

(3) Horizontal variation,

See

J. Draw slate. (1) Thickness,

(2) Contacts

(3) Persistence,

K. Coal bed: Max. *147*. Min. *102*. Av. *122* inches

(1) Benches,

(a) Position,

three distinct, other less important lower, below blue band; middle and upper.

(b) Persistence,

See

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

Blue band compact gray clay rock separates first and second benches occasional bedded pyrite lenses below blue band.

See

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

See

(a) Effect on mining,

See

SECTION				
Ft.	fn.	Name	Index	Sym.

Collector,
Mine, *Old Ben #11* Co. *Franklin*

Coal: Survey No.
Index No. *0514*



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

- (a) Relative hardness, *Lower part of lower bench very hard and thin bedded. constricted purp. part.*
- (b) Lustre, *bright and dull.*
- (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,

clay shale.

(2) Thickness,

(3) Variation,

contour of coal is irregular but the coal holds its thickness very well.

(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,

Coal: Survey No.

Mine,

*No. 11**Co. Franklin*

Index No.

0514

N.—UNDERGROUND SHEET (Geol.)



Operator, *Old Ben Coal Corp.* Date *9/5/18*
 Mine, *No. 11* Sec. *14* T. *68* R. *1E*
 Located, *13 1/4* miles from *Christopher*
 Location in mine, *2nd N. entry of off 12th W. 1/4 N.W. 1000' W. 1300' N*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
<i>24?</i>	<i>1</i>		<i>Roof: gray clay shale</i>	<i>24?</i>
		<i>1.</i>	<i>Top coal left in roof</i>	
		<i>2.</i>	<i>Upper bench mined mostly bright coal</i>	<i>44 1/2</i>
<i>44 1/2</i>	<i>2</i>	<i>3.</i>	<i>mother coal</i>	<i>1/2</i>
		<i>4.</i>	<i>Coal</i>	<i>22</i>
<i>1/2</i>	<i>3</i>	<i>5.</i>	<i>Upper part blue band</i>	<i>1 1/2</i>
<i>22</i>	<i>4</i>	<i>6.</i>	<i>Coal in blue band</i>	<i>2 1/2</i>
<i>2 1/2</i>	<i>5</i>	<i>7.</i>	<i>Blue band</i>	<i>3</i>
<i>2 3</i>	<i>6</i>	<i>8.</i>	<i>Lower bench f coal</i>	<i>22.</i>
<i>22</i>	<i>8</i>		<i>Floor - Clay and shale</i>	

(Note character and thickness of floor)
 Total thickness of coal.

Condition, *Standard B/M* Time, *1* hr. min.
 Wt. Gross, *48* lbs. Net, *4* lbs.
 What Nos. shipped by Co.? *2, 3, 4 & 8*
 Excluded from sample: No. *1, 5, 6 & 7.*
 Sample represents *89* in. tons.
 Impurities? How do they occur?

Sample No. _____ Can No. *280 B/M* Lab. No. *30892*
 Collector, *Schroyer* Coal: Survey No.
 Mine, *Old Ben No. 11* Co. *Franklin* Index No. *0514*
 R.—COAL SAMPLE SHEET.



Operator, **Old Ben Coal Corp.** Date **9/5/18**
 Mine, **No. 11.** Sec. **14** T. **68.** R. **1E**
 Located, **1 3/4** miles from **Christopher**
 Location in mine, **Main west entry, 4500 ft W of shaft.**

GRAPHIC SECTION

DESCRIPTION OF SECTION (AT POINT SAMPLED)

In.	No.	No.	(Note character and thickness of roof)	Inches
?	1		Roof: - Gray clay shale	
19	2		1. Top coal left for roof	
12	3		2. Coal - hard, billi-anthracite	19
23	4		3. Coal, dull and bright interbedded	12
5 1/4	5		4. Coal, bright	23
16 1/2	6		5. Mottled coal	1
13 1/2	7		6. Coal	6 1/4
7	8		7. Blue band	5 1/2
	9		8. Coal	15 1/2
			9. Coal, hard, thin beds	7
			Floor: Gray clay	
			(Note character and thickness of floor)	
			Total thickness of coal.	

Condition, **Standard BqM.** Time, **4** hr. **7** min.
 Wt. Gross, **43** lbs. Net, **4** lbs.
 What Nos. shipped by Co.? **2, 3, 4, 5, 6, 8 & 9**
 Excluded from sample: No. **1 & 7**
 Sample represents **83 3/4** in. tons.
 Impurities? How do they occur?

Sample No. _____ Can No. **524B/JM** Lab. No. **30893**
 Collector, **Schroyer** Coal: Survey No.
 Mine, **Old Ben # 11** Co. **Franklin** Index No. **0514**
 R.—COAL SAMPLE SHEET.



Operator, *Old Ben Coal Corp.* Date *9/5/18*
 Mine, *No.* sec. *14 T. 68. R. 1E*
 Located, *1 3/4* miles from *Christopher*
 Location in mine, *1st N.E. 2700ft. E and 300ft. N.*

GRAPHIC SECTION DESCRIPTION OF SECTION (AT POINT SAMPLED)

In.	No.	No. (Note character and thickness of roof)	Inches
<i>54(?)</i>	<i>1</i>	<i>Roof:- gray clay shale</i> <i>1. Top coal left for roof</i> <i>3. Thin parting</i> <i>mother coal</i>	
<i>35</i>	<i>2</i>	<i>5. Mother coal</i>	
<i>Unmined</i>	<i>3</i>	<i>6. Coal</i>	<i>6 1/4</i>
<i>24</i>	<i>4</i>	<i>7. Hard gray clay</i> } <i>Blue Band</i>	
<i>1 1/4</i>	<i>5</i>	<i>8 Coal</i>	
<i>2 1/2</i>	<i>6</i>		
<i>28</i>	<i>8</i>		

(Note character and thickness of floor)
 Total thickness of coal.

Condition, *Standard B.M.* Time, hr. min.
 Wt. Gross, *55* lbs. Net, *7* lbs.
 What Nos. shipped by Co.? *2, 3, 4, 5, 6 & 8.*
 Excluded from sample: No. *1, 7.*
 Sample represents *90 3/4* in. tons.
 Impurities? How do they occur?

Sample No. Can No. *20 B. of M.* Lab. No. *30894*
 Collector, *Schuyler* Coal: Survey No.
 Mine, *Old Ben #11* Co. *Franklin* Index No. *0514*
 R.—COAL SAMPLE SHEET.



Operator, Old Ben Coal Corp. Date 9/5/18.
 Mine, No. 11 Sec. 14 T. 68. R. 1E
 Located, 1 3/4 miles from Christopher
 Location in mine 1st S. E. 4th East Panel Room 29.

GRAPHIC SECTION DESCRIPTION OF SECTION (AT POINT SAMPLED)

In.	No.	No.	(Note character and thickness of roof)	Inches
			Roof: - gray clay shale	
30	1	1.	Top coal left for roof	30
39 1/2	2	2.	Coal	39 1/2
		3.	Coal, bright & dull interbedded	32
82	3	4.	Blue band	1 1/2
1 1/2	4	5	Coal	24
24	5	6.	Coal, hard thin bedded top bed conyated	3
3	6			

(Note character and thickness of floor)
 Total thickness of coal.

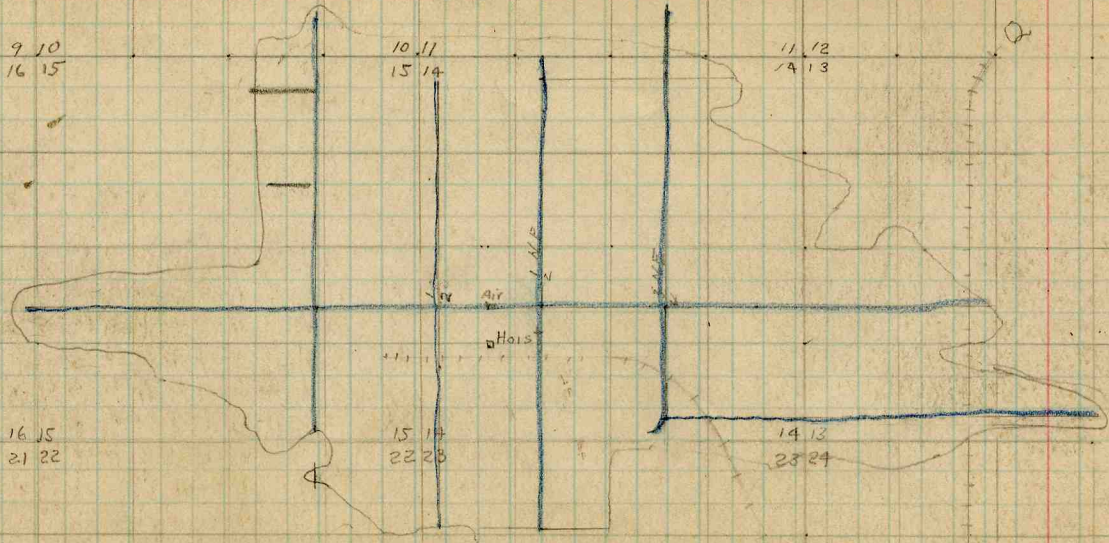
Condition, Standard Time, 55 hr 2 min.
 Wt. Gross, 55 lbs. Net, 4 lbs.
 What Nos. shipped by Co.? 2, 3, 5 & 6
 Excluded from sample: No. 4
 Sample represents 98 1/2 in. tons.
 Impurities? How do they occur?

Sample No. _____ Can No. 243560/11 Lab. No. 30895
 Collector, Schroyer Coal: Survey No.
 Mine, Old Ben #11 Con. Franklin Index No. 0514
 R.—COAL SAMPLE SHEET.

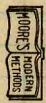
'Sketch Map of Old Ben No. 11 Mine

X 1

Franklin 0514.12



old North Workings



See
Extra
Sheet
No.

Entrance shaft - 619 feet rail to rail
 Kind of tippie
 Motive power for hoist electric
 Source if electrical C. I. P. S. Big Muddy - Gdtowered
 Kind of hoist (cage, skip, etc.) cage
 Kind of haulage motor
 Mining equipment
 Note any features of the equipment that are of special interest

SURFACE DATA.

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

- C. Outcrops, (1) Character,
 (2) Structure,
 (3) Fossil horizons,
 Collection No.,
 (4) Evidences of subsidence,
 D. Note collection of mine maps, drill records and shaft logs.

See drill record sheet,

- E. Notes on surrounding area,

Coal bed name: Local, 6

Collector, HEC

Mine, No 11

L.—SURFACE SHEET (Geol.)

Survey No.

Co. Franklin

Index No. 0517-12



259693

K. (5) Physical character of Coal,

- (a) Relative hardness, *bottoms hardest, top next, middle part soft*
- (b) Lustre, *top brightest, bottom duller*
- (c) Fracture, *top half more regular, blocky, middle*
- (d) ~~Texture~~, *more friable, bottom laminated* See X 2
- (6) Impurities in coal, other than bedded, kind, position, persistence, ease of separation, etc. *much pyrite and calcite in facings, some pyrite balls*

See

L. Floor: (1) Material, *med to light gray clay*

- (2) Thickness, *N.D. > 30"*
- (3) Variation, *N.D.*

- (4) Note character, condition, tendency to heave, relation to undercutting, commercial value. *Heaves readily, even when apparently quite dusty. An entry 8 mos. old and abandoned may have come up 18"*

See

- (5) Clay sample No. _____ Location, _____

M. Stratigraphy,

- (1) Fossiliferous horizons underground, *roof shale has abdt plants in parts of mine, especially in entries off the main West.*

Collection No. _____

Location, _____

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

See

Collector, *HFC*Cola: Survey No. Mine, *No 11*Co. *Franklin*Index No. *0514-12*



Symbol (1 division=3 in.)	Description	Inches
	top coal - est.	30-0
	coal	3-7
	→ charcoal	0-1
	coal	1-3
	→ charcoal	0-1
	→ coal	3-3
	→ char	0-1
	→ coal	6-5
24	→ char	15-6 0-1
	→ coal	29-2 8-9
	→ char	0-2
	→ coal	7-5
36	→ char in 3 bands, max. $\frac{3}{8}$	1-4
	→ coal	4-1
	→ pyrite	37-7 0-1
	→ char + py	2-2
48	→ pyrite	0-1
	→ coal	5-5
	→ char + py	0-1
	→ coal	50-0 4-0
60	→ char with some thin charcoal	0-1
	coal with some thin charcoal partings	17-2
	→ shale and shy coal "BB"	3-2
72	Coal, hard, sl. bony, not well exposed but showing dense and laminated texture Under clay	70-5 32-2 102-7
84	Tape 102-5/8	
96	Section in off	
108	Where we ate lunch Saturday	

Collector, HEC

Mine, No 11

Co. Franklin

Coal: Survey No.

Index No. 0514.12



INDEX

(36713-500-7-20)

259693

- K₃ Slip trending ca N. 15° E across the 16th North off Main. West at 2nd x cut - Down 36"± on West Coal is ca 12-14' thick here - Not precisely measured
- G- The shale roof - as usual thruout the district - is too much fractured to stand alone hence the top two or three benches of coal are left up per roof. Locally the lower 10"-12" of shale will fall leaving a fine smooth shale bed, excellent roof most parts of the roof, tho, fall readily, up to 15 or more feet, so that lagging is needed.

- K- 1 The coal seems to part in several benches -
- | | | |
|-----------------|-------|--|
| top | 12-18 | } mod hard and brightest
two or all three left for roof |
| 2 nd | 12-18 | |
| 3 rd | 12-15 | |
| 4 th | 24-30 | } these soft and friable
to blueband |
| 5 th | 60-66 | |
| 6 th | 24-30 | below blueband - hard, locally bony |

These are not uniformly developed, but all are commonly recognizable in the fresh face.

- K₃ The blue band is usually frozen, others may not be so tight Charcoal ptgs usually loose - Thick (2"-3") charcoal lenses up to 36" long are not rare

- K₃ a add. (cf above) where slips are met - in west, the levels of a pair of entries may vary 3 or more feet locally - In places the slips punch the B/B out giving a nod to the idea among the miners (at all) that no B/B is present. In reality it is usually thicker than usual, when the face is cleaned up thus:

Here a slip is met along the face the hanging wall lying over the slip line, the foot wall below as in the section at the right. These are more common where the coal has partings other than the B/B.

Collector HEC

Index No. 0514-12

X-2

EXTRA NO. 2

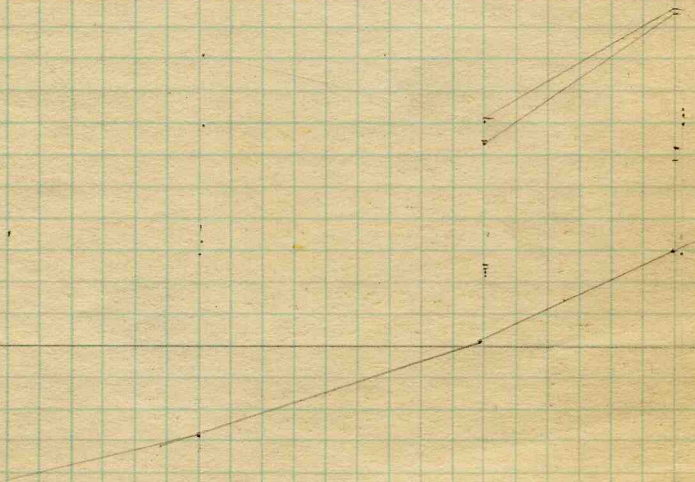
County Franklin



It is apparent that only the most careful measurements of distance between floor, roof, and shale partings at precisely measured intervals along entries will give results of sufficient accuracy for study of the amt of compression of the coal between the roof and floor.

This could be done well thru a period of months, while the face was being advanced when the coal is fresh, the floor not heaved and the datum points easily recognized.

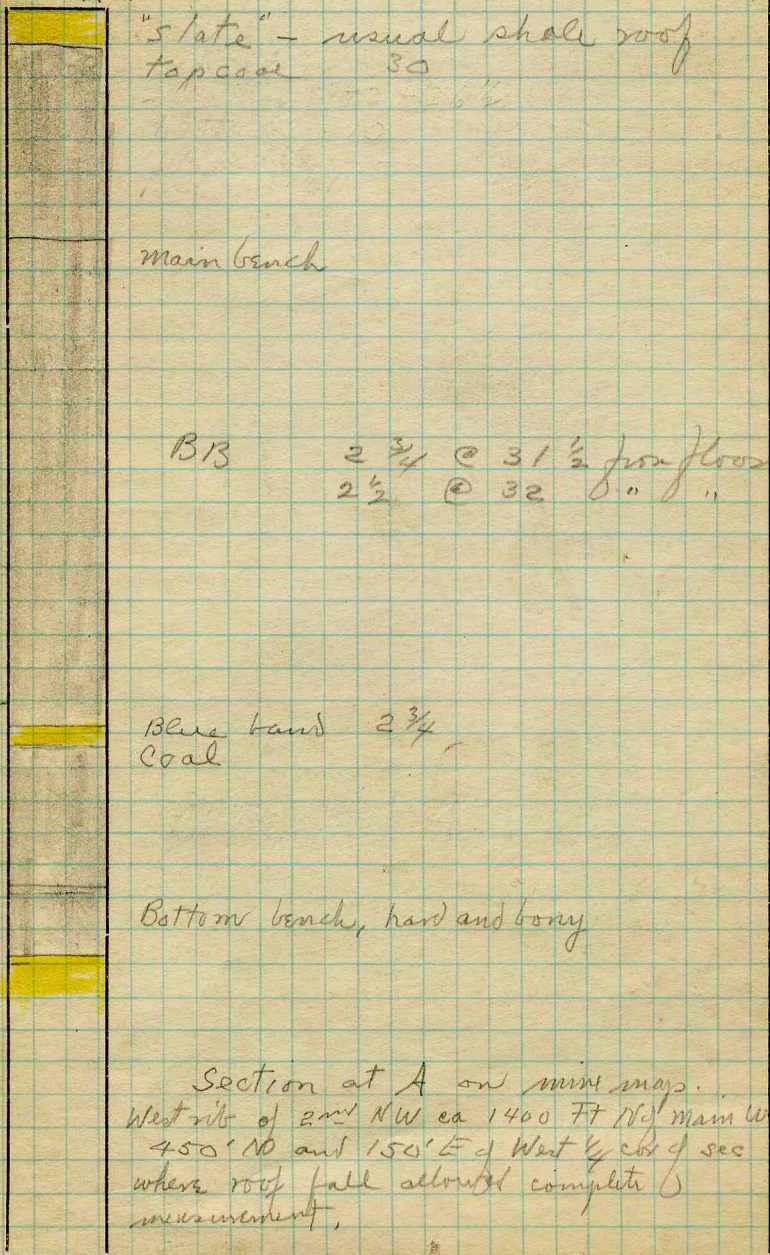
The points at which measurements were made were determined by Mr. Jones with considerable accuracy so that the following revision of that section of split coal is as follows.





Symbol *5* Description Inches

(1 division = $\frac{1}{8}$ in.)



30-0

74-4

2-4
22-0

10-0

138-9

Section at A on mine maps.
West rib of 2nd NW ca 1400 Ft NW main West.
450' NW and 150' E of West $\frac{1}{4}$ cbr of sec 14
where roof fall almost complete
measurement.

Collector, *17 EC*
Mine, No 11

Co. Franklin

Coal: Survey No.
Index No. 0514.12



Symbol	Description	Inches
(1 division=3 in.)	coal - measured back from face to slip. → this is the usual roof, thinner here account low angle dip in top.	22-0
	Coal	9-6
	charcoal parting	0-2
	Coal middle bench	49
	To top of sand bands #9	
	To B13 belt 43 1/2 - 0-4 1/4	
	Floor	
	Main West, Loc. "D"	
	"D" on mine map	
	Section measured at face of	
	Main West, Loc. "D" on mine map	
	1050' S. and 250' W. of West 1/2 cor. sec 15	
	Minor partings disregarded	
	Floor clay	

Collector, *W.C.*

Mine. No. 11

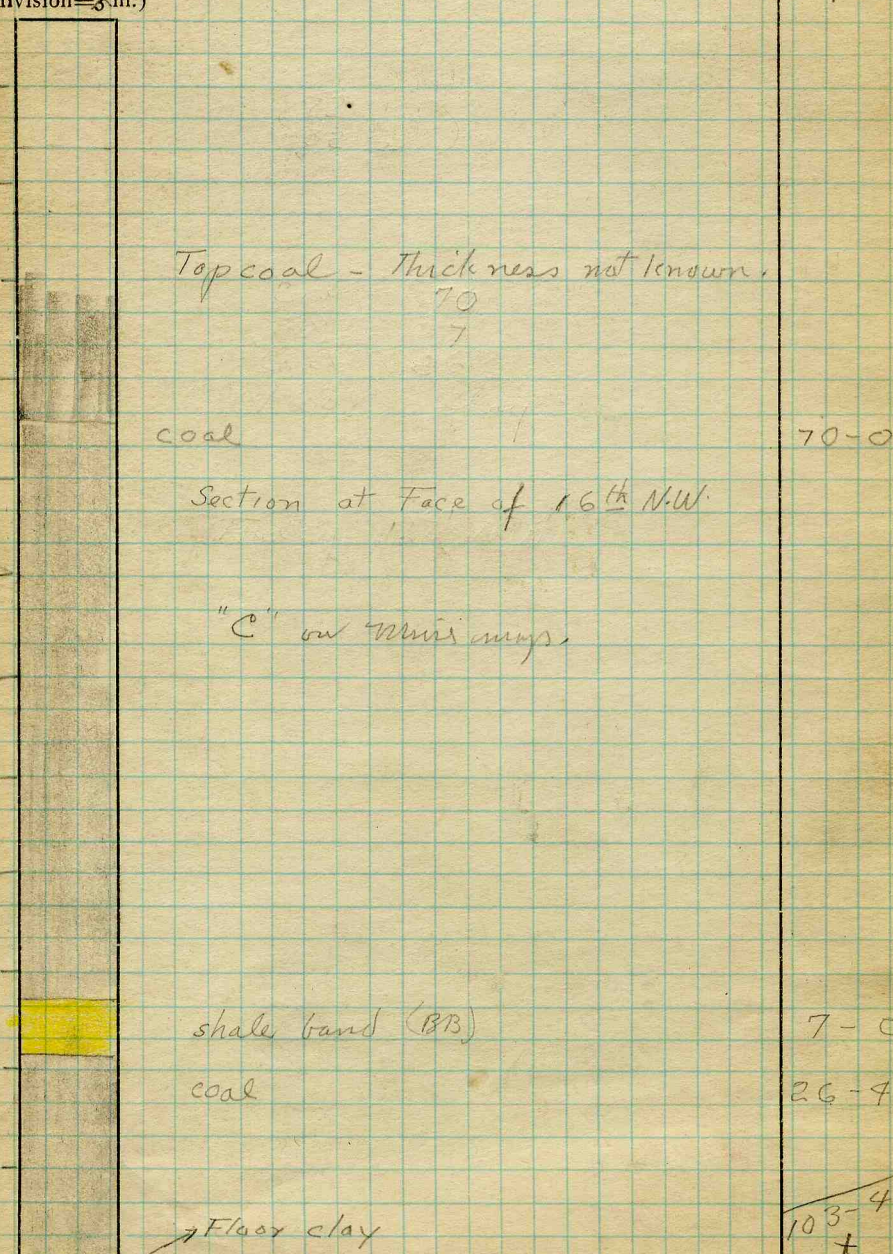
Co. Franklin

Coal: Survey No.

Index No. 0514-12



Symbol 4 Description Inches
 (1 division = $\frac{1}{8}$ in.)



Collector, HCC Coal: Survey No.
 Mine. No 11 Co. Franklin Index No. 0514.12



1 div = 6 inches

Symbol	Description	Inches
	shale roof	
	coal, penetrates by drill in roof - quality doubtful, possibly shale parting in it.	73-0
	coal with shale lenses	8-0
	coal	25
	shale with coal ptgs	3 4
	coal	7 6
	shale	1 2
	coal	8 4
	shale	7-0
	Coal	10-0
	shale	14-0
	coal	15-2
	shale B13	6-0
	Coal	30
		209
		2
	Floor clay	

850' South } of West 1/2 cor of sec 15
650' E

(Scale: 1 division = 3 inches).

Sect. 30' South of face of 14th N off main West - Locus "B"

Sample No. _____ Can No. _____ Lab. No. _____
 Collector, HEC _____ Coal: Survey No.
 Mine, No 10 _____ Co. Franklin _____ Index No. 0514-12



at 6th N off 2nd E off 3rd NE off Main East
 the coal rises so that a 4 foot cut is
 now being made to reduce the grade
 The top of the coal is not exposed but
 the base shows rather good coal below
 the blue band zone. The clean shale
 band is not present, its place being taken(?)
 by two bony layers ca. $1\frac{1}{2}$ " thick at
 23" and 27" above the floor clay.
 Sloping floor may add $1"$ or $1\frac{1}{2}"$ to these
 figures for accuracy. It thus appears
 that the "blue band" is lower in the coal
 on this hill than in the "sister coal"
 The difference in comp. of the band here
 and where typically developed suggests
 that it may not be of same age in the
 two places -

at 100' from max cut for new grade
 the band is $24\frac{1}{2}" - 25"$ above floor, and is
 $\frac{1}{2}"$ to $2"$ thick - Tabulated:-

Locus	Height -	Thickness
1. Point of max cut	24	$1\frac{1}{2}$ bony
2 100' West of (range 2)	$24\frac{1}{2} - 25$	$\frac{1}{2} - 2$ bony
3 - 7 feet West	23	$1\frac{1}{2}$ shale
4th South	$26\frac{1}{2}$	$1\frac{1}{2}$ bony



USBR Bull 193 p 146-7

CHRISTOPHER. OLD BEN No. 11 MINE.

Analyses 30892 to 30896 (p. 31). Bituminous coal, Illinois field, from Old Ben No. 11 mine, a shaft mine $1\frac{1}{2}$ miles north of Christopher, in sec. 14, T. 6 S., R. 1 E., on the Chicago, Burlington & Quincy R. R. Coal bed, Herrin, or No. 6; Carboniferous age, Carbondale formation. The thickness of the bed averages 10 feet 2 inches. There are three distinct benches—lower one (below "blue band"), middle, and upper; lower part of lower bench is very hard and thin-bedded. Cover at points of sampling, 590 feet. The bed was sampled by C. R. Schroyer on September 5, 1918, as described below:

Sections of coal bed in Old Ben No. 11 mine.

Section.....	A. 30892	B. 30893	C. 30894	D. 30895
Laboratory No.....				
Roof, gray clay shale.				
Coal.....	<i>Ft. in.</i>	<i>Ft. in.</i>	<i>Ft. in.</i>	<i>Ft. in.</i>
Coal.....	3 8 $\frac{1}{2}$	1 7	4 6 $\frac{1}{2}$	2 $\frac{1}{2}$ 3
Coal, dull and bright.....		1 0	2 11	3 3 $\frac{1}{2}$
Coal, bright.....		1 11		2 8
"Mother coal".....		1		
Coal.....	1 10 $\frac{1}{2}$	6 $\frac{1}{2}$	2 0	
"Blue band".....		a 5 $\frac{1}{4}$		a 1 $\frac{1}{2}$
Clay, coaly.....	a 1 $\frac{1}{2}$		1 $\frac{1}{2}$	
"Mother coal".....			2 $\frac{1}{2}$	
Coal.....	2 $\frac{1}{2}$		a 2 $\frac{1}{2}$	
Gray rock.....	a 3		a 2 $\frac{1}{2}$	
Coal.....	1 10	1 3 $\frac{1}{2}$	2 4	2 0
Coal, hard thin.....		7		3
Floor, gray clay.				
Thickness of bed.....	8 0	7 5	12 3 $\frac{1}{4}$	8 4
Thickness of coal sampled.....	7 7 $\frac{1}{2}$	6 11 $\frac{1}{4}$	12 0 $\frac{3}{4}$	8 2 $\frac{1}{2}$

^a Not included in sample.

Section A (sample 30892) was cut at face of 2 north entry, 12 west entry, 1 northwest entry, 1,000 feet west, 3,500 feet north of main shaft. Section B (sample 30893) was cut at face of main west entry, 4,500 feet west of main shaft. Section C (sample 30894) was cut at face of 1 northeast entry, 2,700 feet east and 300 feet north of main shaft. Section D (sample 30895) was cut at face of 1 southeast entry, 4 east panel, 29 room, 2,000 feet east of main shaft.

The ultimate analysis of a composite sample made by combining face sample 30892 to 30895 is given under laboratory No. 30896. At time of sampling the daily output was 4,500 tons.

#11 Mine

Franklin Co.

Coal No. 6

Index No. 0514.12