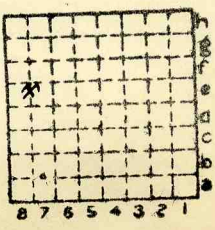
Mine index # 57, BM16, 146, 420

Big Muddy Carterville Mng. Co. #2

County # 274

S-7



Sec. 28

T. 7 ~~N.~~ S.

R. 1 E. ~~W.~~

Index No.

Mine originally operated by: (1) Big Muddy-Carterville Coal Co.

Date 1905

Original name or number:
Illinois Coal Report 1954 p. 75

Royalton

	Date	Operator	Name or No.
1914 2	1916 (INCORRECT LDA)	Franklin Coal & Coke Co.	No. 1
3	1924	Franklin County Coal Co.	No. 1
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			

LATER OPERATORS

*Also owners #See ownership sheet

SHAFT Railroad, Wagon, Strip, Idle, Abandoned

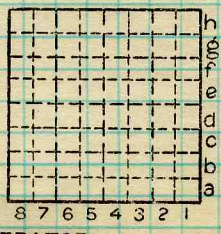
214' → 324 SRH IDENTIFICATION 9'6"

County No._____ Coal No. □ 6

Coal Report No._____

Quad.

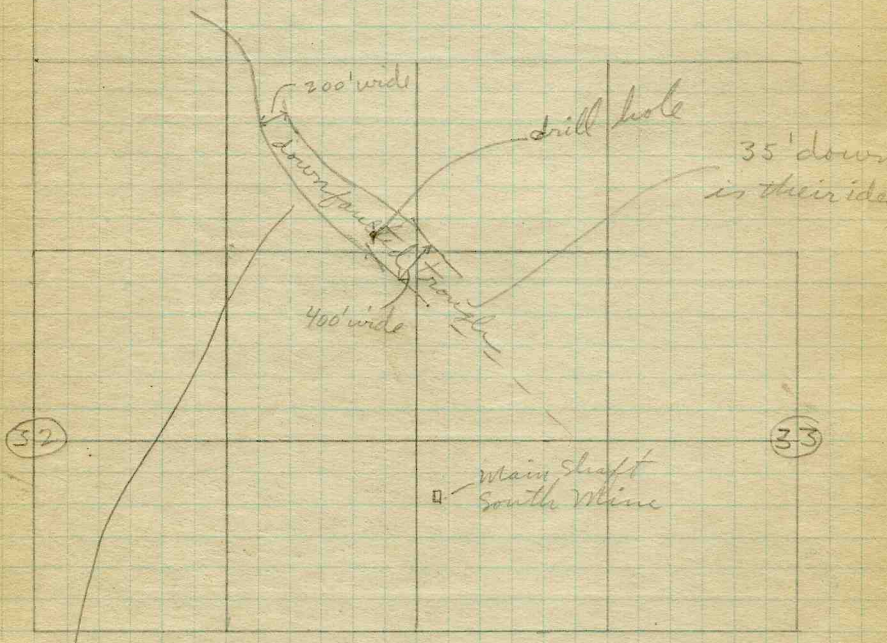
County FRANKLIN



Sec.
T. N. S.
R. E. W.
Index No.

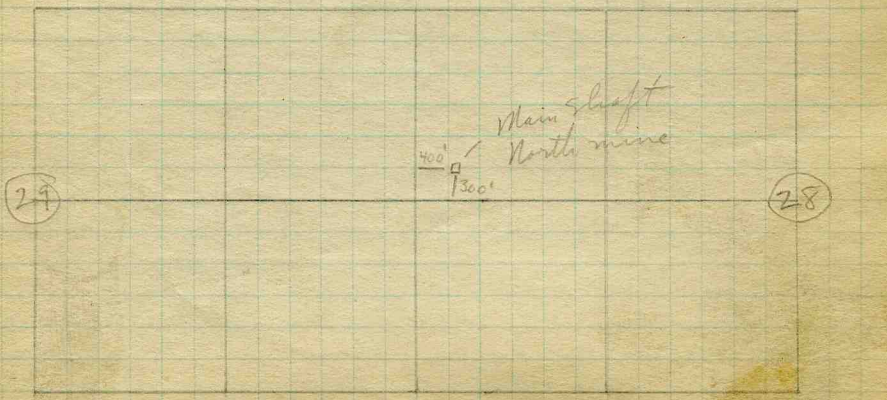
COAL MINE OPERATOR

Franklin Coal & Coke Co. - Royalton



12 33. - Frank Co.

this is as far as fault is traced on the mine map.



1228 - Franklin Co

Location and Elevation Data

Location: Exact ✓ Approximate

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

Location by W. B. Roe

Date July 27, 1932 Notebook No. 614 Page 17(2138)

Looseleaf ref.

Map files No. 5-28-28

Description of location

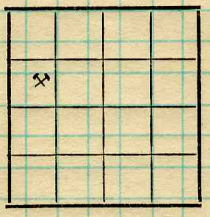
Position in sec., ¼ sec., 40 acres

1925 feet from North line

feet from East line

feet from South line

925 feet from West line



Sec. 28

T. 7 S.

R. 1 E.

Other description: MN 1912

Farm

No.

Company Franklin County Coal Co., Inc.

No. Royalton mine #7?

County No. 107

Elevation 414.4 ft.

By W. B. Roe

Method: Level, transit, alidade, hand level

Plane table and alidade

Elevation of Curb

Height of point above ground

Date July 29, 1932 Notebook 614 P. 17(2138)

Looseleaf ref.

Map files No. 5-28-28

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

County	Quadrangle	Index No.
Franklin	Herrin	1228.7f

(45576—1M—10-30)

COAL MINE NOTES. 1228

COUNTY Franklin TOWN MAP No. 1228

T. 7S R. 1E S. 28 N.W.¼

OPERATOR Big Muddy Carterville Mining Co.

OFFICE Carterville.

MINE #2

TIPPLE

ENGINES

BOILERS

DRUM

SHAFT CAGE

HAULAGE

CARS

VENTILATION

DRAINAGE

SPRINKLING

WORKING SYSTEM

MINING METHODS

SIZE OF ENTRIES—MAIN CROSS ROOM NECK

SIZE OF PILLARS—MAIN CROSS ROOM

SHAFT CHAIN BARRIER

AMOUNT OF TIMBERING SIZE

PROPORTION OF COAL UTILIZED

AMOUNT AND CHARACTER OF WASTE

ACREAGE OF COAL MINED

ACREAGE OF COAL REMAINING

PROPORTION OF MINE RUN AND SCREENED COAL

METHOD OF SIZING RESCREENED

SIZES

PER CENT

PROPORTION AND SIZE OF WASHED COAL

DAILY OUTPUT

UTILIZATION

MARKETS

FREIGHT RATES

SELLING PRICES AT MINE 1228

COAL LAND OWNED LEASED HELD IN FEE

COST OF LAND OWNED LEASED HELD IN FEE

ADDITIONAL NOTES

COAL MINE NOTES.
CONTINUED

OPERATOR Big Muddy Carterville Mining Co. MINE #2 1228

ENTRANCE NAME OF COAL BED

ELEVATION 412 THICKNESS OF COAL

DEPTH TO FLOOR 315 MAX. MIN. AV. 118"

ALTITUDE OF COAL 97

LOCATION OF SECTION

No.	SECTION.	In.
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
	Tape Total	

	SECTION Feet
SAMPLE No.	
CAN No.	
CONDITION	
GROSS WEIGHT	
TIME EXPOSED	
NOT SHIPPED	
NOT INCLUDED	

PHYSICAL PROPERTIES BY NUMBERS

ROOF

FLOOR

DIP

FAULTS, ETC.

GAS

COLLECTOR Savage. REFERENCE DATE 1228

COAL MINING INVESTIGATIONS

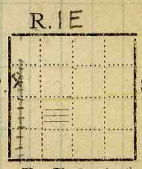
Cooperative Agreement

Mine Name or No., Mitchell Mine

mile from

Operator, 1912 Franklin Coal & Coke Co.

Operator, 191



Entrance, Shaft Elev., 418 ft. { above, below,

Depth to bottom coal, 324 ft. Alt. 94

Surface Data.

A. Topography Level to Rolling See

B. Surficial materials, (1) Character A Yellow sandy clay

(2) Thickness, 30'± (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc.

No effect on shaft sinking.

See

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, #6 Survey #6

Collector, K.D. White State No. 1228

Mine, Mitchell Co. Franklin Co-op. No. 56

L.—SURFACE SHEET (Geol.)

Underground Data

F. Thickness of rock above bed worked, 294
(1) Important variations, Unknown.

See

G. Note presence of strata having important effect on mining.
None especial. See
(1) Position,
(2) Character,
(3) Persistence,
(4) Other workable coal beds,

See

H. Cap rock, LS.
(1) Thickness, 5'
(2) Height above coal, 22'

See

I. Immediate roof To coal.
(1) Thickness, 2' to 2'-6" (2) Contact with coal,

(3) Horizontal variation,
None

See

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

K. Coal bed: Max. 10'-6" Min. 9'-6" Av. 9'-6" inches
(1) Benches, 3
(a) Position, Top bench 2', Middle Bench 5'-6"
Bottom Bench 2'
(b) Persistence,
Over entire mine See
(2) Bedded impurities, kind, position in benches, persistence, ease of separation.

Blue Band, a grayish brown shale 2'
some dirt, clay, jack and sulphur bands.
in very small amount and irregular in
occurance and position

See

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

See
A very small number of slips.
(a) Effect on mining,

See
None.

SECTION				
Ft.	In.	Name	Index	Sym.

Collector, KDWhite Coal, #6 State No. 1228
Mine, Mitchell Co. Franklin Co-op. No. 56

M.—UNDERGROUND SHEET (Geol.)

UNDERGROUND DATA (cont'd.)

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

(a) Relative hardness, Bottom coal hardest, then top, then middle bench

(b) Lustre, Bright.

(c) Fracture, Blocky

(d) Texture, Banded. See

(6) Impurities in coal, other than bedded,

(a) Kind, A few sulphur balls and streaks.

(b) Position and persistence, irregular

(c) Rejected, Yes Ease of separation, By hand See

L. Floor: (1) Material Fire Clay.

(2) Thickness 1 0'+

(3) Variation None

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

Similar to general condition of district. Upper part contains plant impressions and slick surfaces. Does not heave. Sump sunk 4½' did not reach bottom

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, Rowhite Coal #6 State No. 1228

Mine, Mitchell Co. Franklin Co-op. No. 59

N.—UNDERGROUND SHEET (Geol.)

INDEX

Section Main Air Entry Room 4

Ks 1 Top Coal up (reported) 2'-6"

2 Middle Bench bright hard coal. Glance coal in bands up to 1/2" thick, amount 25%. Impurities, a little black clay and a few sulphur streaks. Considerable number of mother coal bands. Calcite along glance coal in small amount 5'-4"

3 Blue Band, a grayish brown shale 0'-2"

4 Bottom Coal very hard contains a number of jack and some sulphur bands. 1'-11"

Face air shaft entry, coal similar to previous section
Cleat Face N30°W
Butt N30°E

Face Main South coal about same as previous section, contains however more sulphur balls of irregular size in lower bench. Face produce considerable gas, which escapes with a hissing sound.

A very clean parting of mother coal occurs between top and middle bench.

I Top coal very hard brittle and bright, where measured contained considerable sulphur in balls and vertical streaks. Amount much less (according to report in other parts of mine. Measured 2'-8"

Very few slips in roof.

Top coal never falls.

When top coal is pulled roof falls continually.

Ks Coal as a bed is very hard, bright, and brittle shoots into good block coal. Practically no impurities go over screen into cars.

Collector K.D.White
Mine Mitchell
X.—EXTRA SHEET No.

Coal #6
Co. Franklin

State No. 1228
Co-op No. 59

INDEX

K5 General dip of coal is to the north Bed lies practically in a plane with no flextures.

Top is a gray shale, harder than the general roof shale of the district. It is rather dense, sandy and contains plant impressions. A few slip occurs in it but give no trouble. It falls in irregular masses, breaks into small spalls on weathering.

K5 When slick faces occur in the coal the are generally covered with calcite.

Gray shale in shaft 22' thick

Collector R.D.White Coal #6 State No. 1228
Mine Mitchell Co. Franklin Co-op No. 59
X.—EXTRA SHEET No. 2

Log about one mile from Royalton

Clay	15'
Sandstone	16'-6"
Blue Shale	1'-6"
Sandstone	10'-0
Shale	29'-0
	17'-0
Black Slate	3'-7
Coal	1'-2
Blue shale	2'-0
Conglomerate	5'-3
Blue Shale	26'-0
" "	63'-0
Sandstone Shaly partings	20'-0
Black Shale + Coal	1'-0
" "	1'-1"
Coal	0'-7"
Clay shale	11'-3"
Blue "	6'-0"
Sand	2'-0"
Sandstone Shaly partings	4'-0
	22'-6"
Black" Slate"	1'-8"
Coal	1'-10"
Sandstone	2'-0"
Sand Shale	8'-0"
Blue "	2'-0"
Lime ~~Stroke~~ Ls	2'-0"
Blue Slate	
	9'-6"
Limestone	8'-0"
Sandstone	10'-0"
Sandshale	6'-0"
"	18'-0"
Sandstone	21'-6"
Blue Shale	2'-6"
Blue Slate	22'-0"

File with Mitchell Mine #1

1228

Sand Shale	18'-0"
Blue Shale partings	21'-6"
~~Sand~~ Coal	11-6
Fire Clay	3'-0"

#2

3 2½ 3½
2 9 4

MOORE'S MODERN METHODS

COAL MINING INVESTIGATION

Cooperative Agreement

Operator, Franklin Coal & Coke Co Date, 8-28 1912
Mine, Mitchell Located at ~~miles*~~ ~~from~~† Royalton
Location in mine, Room #9 off back air shaft
Total (vertical) depth from surface at point of sampling, 300 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-Top Coal-Soap Stone	above	
2	Coal-fairly clean		6
X 3	Bone		½
4	Coal-fairly clean	1	4½
5	Mother of Coal		¼
6	Coal-clean-bright	1	10
7	Coal-bony-dull hard		8
X 8	Bone & shale		1
9	Coal-clean-soft		4½
X 10	Bone & shale-blue band		2
11	Coal-clean-bright	1	10 ¼
X 12	Floor-fire clay		
13			
14			
15	310		
16			
17			
	TOTAL,	6	11

Is coal ~~wet~~ or dry? Dry
Time exposed, 0 hours, 35 minutes.
Weight, 50# gross, net.
What are the impurities, and how do they occur? bone, shale, mother of coal-dirt-pyrite in horizontal streaks
What are shipped? 2, 4, 5, 6, 7, 9, 11
What are excluded from the sample? 1, 3, 8, 10, 12
Coal bed, ± 6

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

Town, Royalton Mine, Mitchell Co. Franklin Coal and Coke Co
Sample No. 57C(Sub) Can No. 1565 53 No. ±57(Sub)
I.—COAL SAMPLE SHEET. Sampler. Smith + Nebel- 1228
#5507

MOORE'S MODERN METHODS

COAL MINING INVESTIGATION

Cooperative Agreement

Operator, Franklin Coal & Coke Co. Date, August 28 1912

Mine, Mitchell Located — miles* — from† at Royalton

Location in mine, Face Room #4, 2nd S. off Main E.

Total (vertical) depth from surface at point of sampling, 300 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-Top Coal-Soapstone above		
2	Coal-clean-bright		4 1/4 1/4
3	Bone		
4	Coal-clean bright		3 3/4 1/4
5	Bone		
6	Coal-fairly clean-	3	3 1/2
7	Mother of coal -		1/4
8	Coal-fairly clean-banded dull		10 3/4
X 9	Blue band-Grayshale	309	1 1/2 3/4
10	Coal-dull-		
X 11	Mother of coal		3/4
12	Coal-very clean-bright	1	8 1/2
X 13	Floor-fire clay		
14			
15			
16			
17			
	Total,	6	10 1/2

Is coal wet or dry? Dry

Time exposed, 0 hours, 35 minutes.

Weight, 45# gross, Shale net.

What are the impurities, and how do they occur? Bone, dirt, pyrite, mother of coal in horizontally bedded streaks, $CaCO_3$ on cleat

What are shipped? 2, 3, 4, 5, 6, 7, 8, 10, 12

What are excluded from the sample? 1, 9, 11, 13

Coal bed, No. 6

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

Town, Royalton Mine, Mitchell Co. Franklin Coal & Coke Co.

Sample No. 57B (Sub) Can No. ISGS #205 No. 57 (Sub).

I.—COAL SAMPLE SHEET. Sampler. Nebel & Smith

#5508

1228

COAL MINING INVESTIGATION

Cooperative Agreement

Operator, Franklin Coal & Coke Co. Date, August 28 1912

Mine, Mitchell Located ~~miles*~~ from† at Royalton

Location in mine, Face Room 8 - 1st S of 2nd W S.

Total (vertical) depth from surface at point of sampling, 300 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 Top Coal (3½ ft) Soapstone above,		½
2	Coal - clean - bright		3 ¼
3	Mother of Coal		¼
4	Coal - clean - bright		3 ¼
5	Bone		¼
6	Coal - dirty		½
7	Bone.		¼
8	Coal - fairly clean		11 ½
9	Pyrite		⅛
10	Coal - dirt streaked		10 ¼
11	Mother of coal		¼
12	Coal - clean - bright		10 ½
13	Mother of coal		¼
14	Coal - fairly clean - bright		11 ½
X 15	Bone & Grayshale		1 ¼
16	Coal - clean - bright		3 ½
X 17	Blue band - grayshale		2
18	Coal - hard Bony		10 ½
	TOTAL,	6	9 ⅝

19. - Floor - fire-clay

308

Is coal wet or dry? - Dry

Time exposed, 0 hours, 30 minutes.

Weight, 40# gross, net.

What are the impurities, and how do they occur? - Bone - shale - pyrite - dirt - mother of coal in hor. bedded streaks.

What are shipped? 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18

What are excluded from the sample? 1, 15, 17, 19.

Coal bed, No. 6

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

Town, Royalton Mine, Mitchell Co. Franklin Coal & Coke Co.

Sample No. 57A (sub) Can No. SD 30 No. 57 sub

I.—COAL SAMPLE SHEET. Sampler. Nebel & Smith. 1228

#5509

Royalton. North or No. 1 Mine.

Analyses 30205 and 30207 (p. 32). Bituminous coal, Illinois field, from North or No. 1 mine, opened by two shafts 317 feet deep at Royalton, on the Missouri Pacific R. R. Coal bed, Herrin, or No. 6, of the Illinois Geological Survey; Carboniferous age, Carbondale formation. Thickness of the bed averages from 7 to 11 feet; from 1½ to 2 feet of roof coal is left in mining. Roof, gray shale; floor, fire clay; a "blue band" consisting of bony coal or shale and averaging from ½ inch to several inches thick lies about 18 inches above the floor and is rejected by miners. Two car samples, one (30205) representing 13 cars and one (30207) representing 22 cars of coal, were collected by W. B. Plank on March 26 and 27, 1918.

System of mining, double-entry room and pillar. Prior to October 1, 1918, FF black powder was used for blasting down the coal in the rooms, but permissible explosives with No. 6 detonators were used in the entries only; since that time permissible explosives have been installed and used entirely. Machines were used for undercutting the coal. About 500 men were employed underground. Haulage was by electric locomotives and by mules. The daily average output of mine was 3,800 tons and the maximum day's run 4,154 tons. In 1917, 555,565 tons of coal were mined; the output for 1918 was 644,323 tons.

For description and analyses of other samples from this mine see Bureau of Mines Bull. 123, pp. 33, 174.

Royalton. North Mine.

Analyses 20080 to 20083, and 20723 to 20726 (p. 33). Bituminous coal, Illinois field, from North mine, a shaft mine, at Royalton. Coal bed, No. 6 of the Illinois geological survey; Carboniferous age, Carbondale formation. The coal is firm and is of uniform thickness, averaging 9 feet 5 inches. Roof, gray impure shale; usually 18 to 30 inches of coal is left for protection. Floor, hard, brittle clay. Shaft, 315 feet deep. The bed was sampled at three points in the mine by J. W. Paul, H. I. Smith, and G. T. Powell on November 1, 1914, and at three other points by H. I. Smith on November 30, 1914, as described below:

Sections of coal bed in North mine.

Section	A	B	C	D	E	F
Laboratory No.	20080	20081	20082	20723	20724	20725
Roof, shale.						
Coal, 2 to 3 feet, left up in mining.	Ft. in.	Ft. in.	Ft. in.	Ft. in.	Ft. in.	Ft. in.
Coal	4	3½	8½	7⅜	7	4½
Bone and "mother coal"	½	½	½	⅛	Streak.	1½
Coal	2	2½	3½	2 10½	3 8	8
Bone and shale	¾	¼	½	.. ..	a 4½	.. ..
Coal and "sulphur"	.. ..	.. ..	.. ..	a 2½	.. ..	.. ..
Coal	3 7¾	3½	1 1	8	.. ..	.. ..
Bone, shale, "mother coal"	¼	¼	½	.. ..	.. ..	¼
Coal	3¾	.. ..	1	.. ..	.. ..	3 5½
Shale, carbonaceous	a 3	.. ..	.. ..	.. ..	.. ..	.. ..
"Mother coal"	.. ..	.. ..	¼	.. ..	.. ..	.. ..
Coal	1 10½	4	3	.. ..	.. ..	.. ..
"Mother coal" and shale	.. ..	¼	⅛	.. ..	.. ..	.. ..
"Blue band"	.. ..	.. ..	.. ..	a 3	a 2½	.. ..
Coal	.. ..	11	2 3½	1 7¼	1 ½	.. ..
Bone	.. ..	.. ..	.. ..	.. ..	.. ..	a 1
Shale	.. ..	¼	.. ..	.. ..	.. ..	.. ..
Bone, coal, and "sulphur"	.. ..	.. ..	.. ..	.. ..	a 9	.. ..
Coal	.. ..	9½	.. ..	.. ..	.. ..	a 4
"Blue band"	.. ..	.. ..	.. ..	.. ..	.. ..	2
Shale	.. ..	Streak.	.. ..	.. ..	.. ..	.. ..
Coal	.. ..	1 6½	.. ..	.. ..	.. ..	1 9
Bone	½	.. ..	.. ..	.. ..	.. ..	.. ..
Coal	.. ..	3¼	.. ..	.. ..	.. ..	.. ..
Shale, carbonaceous	.. ..	2	1	.. ..	.. ..	.. ..
Coal	.. ..	2 0	1 9	.. ..	.. ..	.. ..
Floor, clay.						
Thickness of coal mined	6 8¾	6 11½	6 8⅛	6 2⅜	6 7½	6 11¾
Thickness of coal sampled	6 5¾	6 9½	6 7⅛	5 9½	5 3½	6 4¾

a Not included in sample.

Section A (sample 20080) was measured at face of 4 north entry, 2 main west entry. Section B (sample 20081) was measured at face of 27 room, 1 north entry, 1 main east entry. Section C (sample 20082) was measured at face of 1 main east entry, main north entry. Section D (sample 20723) was measured at face of 2 west south entry, about 2,000 feet west of the shaft. Section E (sample 20724) was measured at face of 26 room, 3 southwest entry, near entry. Section F (sample 20725) was measured at face of 1 east south entry.

The ultimate analysis of a composite sample made by combining face samples 20080, 20081, and 20082 is shown under laboratory No. 20083. The ultimate analysis of another composite sample made by combining face samples 20723, 20724, and 20725 is shown under laboratory No. 20726.

A modified panel, room-and-pillar system of mining, with cross entries, is used. From the shaft bottom double main entries extend at right angles north, south, east, and west for average distances of 3,000 feet, thus dividing the mine into four quadrants. In 1914 the coal was undercut by machines, and shot down with black blasting

See Extra Sheet No.

Entrance Shaft
Kind of tipple Steel Head frame with wood tipple
Motive power for hoist Steam
Source if electrical
Kind of hoist (cage, skip, etc.) Cage
Kind of haulage Elec Motors for everything
Mining equipment
Note any features of the equipment that are of special interest

SURFACE DATA.

A. Topography, Relatively level
B. Surficial materials, (1) Character, clay and sand
(2) Thickness, 20' (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,
Survey No. 6
Collector,
Mine, Franklin County Coal Co. Co. Franklin
Index No. 1228

L.—SURFACE SHEET (Geol.)

F. Thickness of rock above bed worked, see opposite side

(1) Important variations, See

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

Very poor shale roof.

(1) Position, Immediately above coal

(2) Character, soft light colored shale, many plant impressions

(3) Persistence, yes

(4) Other workable coal beds 4 coal seam lies 35 to 50 feet below. See

H. Cap rock, None

(1) Thickness, —

(2) Height above coal, —

See

I. Immediate roof, blue gray shale

(1) Thickness, 35' (2) Contact with coal, relatively even

(3) Horizontal variation, None

See

J. Draw slate, (1) Thickness, (2) Contacts

(3) Persistence,

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

(1) Benches, Upper and lower

(a) Position, above and below blue band.

(b) Persistence, yes.

See

(2) Bedded impurities, kind, position in benches, persistence, ease of separation, Blue band with fair parting above and below, many dull coal bands, with bone coal band near top which has a fair parting on top side.

See

(3) Irregularities in bed (due to deposition, erosion, or movement), Bed has gentle undulations, no steep grades See

(a) Effect on mining, None See

SECTION			
Name	Ft.	In.	Sym.
See table of Sections			

Collector,

Coal: Survey No. 6

Mine, Franklin County Coal Co. Franklin

Index No. 1228

M.—UNDERGROUND SHEET (Geol.)

15'	6"	clay	Diamond drill hole in SW Corner of NW 1/4 of NE 1/4 of Sec 22 Twp 75, R 1E
6	6	Soft sandstone	
105		Blue shale	
5		sandy shale	
13		" "	
2		shaly sandstone	
1		black slate	
	4"	Bony coal	
	8"	fire clay	
4	6	clay shale	
24'	6	sandstone	
5	0'	blue shale	
3	6	limestone P1	Elev. G.L. 391 ± Topo.
4	9	blue shale	
1	11	coal 7	
	8	fire clay	
10	2	gray shale	
2		clay shale	
1		limestone BF	
8		lime shale	
6	6	limestone Brer	
2	6	lime shale	
66		sandy shale	
35	4	blue shale	
1	4	Bony coal	
7	11	coal	
2		blue bone	
2'		coal	
2	3	fire clay	

#5 coal about 35 to 50 feet below; about 4½' thick

R 2 E

ILLINOIS GEOLOGICAL SURVEY, URBANA

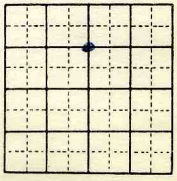
DIAMOND DRILL HOLE

	Thickness	Top	Bottom
Clay	15-6	0	15-6
Soft sandstone	6-6	15-6	22-0
Blue shale	105-0	22-0	127-0
Sandy shale	18-0	127-0	145-0
Shaly sandstone	2-0	145-0	147-0
Black slate	1-0	147-0	148-0
Bony coal (Pond Creek?)	0-4	148-0	148-4
Fire clay	0-8	148-4	149-0
Clay shale	4-6	149-0	153-6
Sandstone	29-6	153-6	183-0
Blue shale	5-0	183-0	188-0
Limestone (Piasa)	3-6	188-0	191-6
Blue shale	4-9	191-6	196-3
Coal (#7-Danville)	1-11	196-3	198-2
Fire clay	0-8	198-2	198-10
Gray shale	10-2	198-10	209-0
Clay shale	2-0	209-0	211-0
Limestone (Bankston Fork)	1-0	211-0	212-0
Lime shale	8-0	212-0	220-0
Limestone (Brereton)	6-6	220-0	226-6
Lime shale	2-6	226-6	229-0
Sandy shale	66-0	229-0	295-0
Blue shale	35-4	295-0	330-4
Bony coal	0-4	330-4	330-8
Coal (#6-Herrin)	7-11	330-8	338-7
Blue Band	0-2	338-7	338-9
Coal (#6-Herrin)	2-0	338-9	340-9
Fire clay	2-3	340-9	343-0
T.D.		343-0	

#6 Coal Thickness 10-5 feet
Elevation Top #6 Coal 61 ft.

COMPANY Franklin County Coal Co.
FARM North Mine NO.
DATE DRILLED 1914 ? COUNTY NO.
AUTHORITY Correlations by C. J. Nelson
ELEVATION 391' ±
LOCATION SW corner NW-NE
COUNTY Franklin

Sec. 22



7S-1E

250693

K. (5) Physical character of Coal,

(a) Relative hardness, Lower bench very hard, Upper bench is firmer and much less friable than at base

(b) Lustre, Bright but with an enormous number of dull bands

(c) Fracture, irregular

(d) Texture, See

(6) Impurities in coal, other than bedded, kind, position, persistence, ease of separation, etc. Practically no other impurities other than bedded. A very few facings of calcite were found and hardly a trace of those of pyrite were noted See

L. Floor: (1) Material, Fire clay

(2) Thickness, ?

(3) Variation, Apparently none.

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

See

(5) Clay sample No. A 258 & A 266 Location,

M. Stratigraphy,

(1) Fossiliferous horizons underground,

Collection No. Location,

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

See

~~Collector~~, Franklin County Coal Co Cola: Survey No. 6

Mine, No 7 Co. Franklin Index No. 1228

N.—UNDERGROUND SHEET (Geol.)

MOORE'S MODERN METHODS

Symbol	Description	Inches

[1 division=3 in.]

Franklin County Coal Co.
Franklin County, Sect 28, Twp 7S, R 1E

this sample located in lower central westedge of NE¼ of NE¼ of Sect. 33
Roof 3½ of top coal which is recovered later on the retreat.

Top of section

1' of very dull oshy bone coal — A-260

¼ coal parting

Two mother coal streaks ⅜ wide with ¼ coal between

Banded coal, light and dull bands

Mother coal streak

laminated coal, light and dull bands.

pyrite streak in bedding

¼" bonex coal, very dull

1½" Blue band. More bone coal than clay here — A-259

Hard laminated coal

Face sample A-261
Hand Specimen A-262 A-263
" Blue Band A-264
Roof rock some parts A-265

Fire clay, light gray, darker on top, some root impressions, very firm and dry — A-258

Collector. Franklin County Coal Co
Mine. No 7 Co. Franklin
Q.—COAL SECTION SHEET. #1

Coal: Survey No. 6
Index No. 1228

Symbol	Description	Inches
[1 division=3 in.]		
	Franklin County Coal Co.	
	Franklin County, Sec 28, Twp 7S, R 1E	
	Sample in lower Central dri E½ of SE¼ of Sec 28	
	Roof - About 26" of top coal, mined later	
	← Top of section	
	4½ inches of shaly material with some coal streaks. More shale than coal	A-260
	← Bone and mother coal ½" thick	
	Mother coal where but horizon of clay and bone coal band up to 1" thick	A-270
	M coal parting	
	Banded coal, light and dull coal	
	M coal parting	
	2½" blue band, partly bony and with some coal stringers	A-267
	Hard banded coal	
	M coal parting	A-266
	Hard banded coal.	
	Fire clay. Light colored. Considerable plant impressions. Firm and dry	A-266

Collector. Franklin County Coal Co Coal: Survey No. 6

Mine. No 7 Co. Franklin Index No. 1228

Q.—COAL SECTION SHEET. 2

Operator, Date

Mine, Sec. T. R.

Location in mine,

GRAPHIC SECTION			DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.		No.	No.	(Note character and thickness of roof)	Inches
				(Note character and thickness of floor)	
				Total thickness of coal.	

(1 division=3 in.)

Condition, Time, hr. min.

Wt. Gross, lbs. Net, lbs.

What Nos. shipped by Co.?

Excluded from sample: No.

Sample represents in. tons.

Impurities? How do they occur?

Sample No. Can No. Lab. No.

Collector, Coal: Survey No.

Mine, Co. Index No.

R.—COAL SAMPLE SHEET.

INDEX

Bedded Impurities

Blue band. The blue band in this mine contains much more carbonaceous material than observed before and in places is hard to free from the coal. In such localities there seems to have been a gradual change from clay to coal without any decided parting. However a fair separation can be made with a pick. but as the miners sort out the blue band in loading they discard some coal that sticks to the blue band.

The blue band changes in character rapidly in a short distance. At the room where Coal section #2 was taken the blue band showed imprints of plant remains. Several corrugated surfaces about 3/4" from crest to crest were found and these were only in the more clayey phases of the blue band. The blue band is much thicker in the north side of the mine and the refuse piled in the room was several times the amount that was discarded in the south section.

In addition to the blue band there is a horizon near the top of the seat in that changes from 1" of bony coal in the south side of the mine to 4 1/2" of shaly clay with some coal streaks on the north side. On the latter side of the mine this is by far the most serious impurity as it crumbles into small pieces

Collector Franklin County Coal Co Coal: Survey No. 6

Mine No 7 Co. Franklin Co Index No. 1228

X.—EXTRA SHEET No.

INDEX

and which makes it next to impossible to seperate much of it from the coal. This band is full of imprints of vegatable remans, all of which left corrugated imprints on horizontal partings.

There are no impurities in this coal of any importance whatsoever other than bedded. The few facings of calcite are of no importance when considered in connection with the BB and upper shaly band

Roof. By their mining method, the rooms are driven to the end, leaving from 24 to 36 inches of top coal. Then the top coal is mined on the retreat and during which operation some roof shale falls with the coal. One redeeming feature is that it falls big and is fairly easily removed when coal is loaded. It does add some to the ash in the coal that is mined on the retreat but it is of secondary importance when considered with the seam as a whole Some picking is done at the tipple The discard being cheifly blue band Much however escapes in the med. sizes and the screenings are very high in ash.

Collector Franklin County Coal Co Coal: Survey No. 6

Mine No 7 Co. Franklin Index No. 1228

X.—EXTRA SHEET No.