







Mine originally operated by: (1)

Date 1906

Pana Coal Co.

Original name or number: Mine No. 2  
Illinois Coal Report 1954 p. 74

Pana

LATER OPERATORS

Date Operator Name or No.

2 ABD 1929

3

4

5

6

7

8

9

10

11

12

13

14

\*Also owners

#See ownership sheet

SHAFT Railroad, Wagon, Strip, Idle, Abandoned

732'

IDENTIFICATION

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

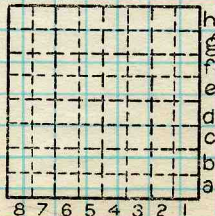
7'6" Coal No.

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

6

Quad.

County CHRISTIAN



Sec.

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

COAL MINE OPERATOR





Town, **Pana** 677-1  
 Surface alt., **681** <sup>Ray</sup> ft.  
 Local Authority, **J. Simpson, M. Mgr** 722-714 Depth to coal, **743 1/2** ft.  
 Level: Auth., **Mine Notes** - 33 Alt. top coal, **-32 1/2** ft.  
**J.S. Young** Thickness: Av. **30** in.  
 Method, **Planetable 1929** Max. **96** in., Min. **78** in.

R. R., **C & E. G.; J.C.** 125' from W. T. 1000' " N. lin.  
 Location: authority, **Pana Coal Co. 2/20/18** 11' N  
 R. 1E Sec. 15  
 (Show R. R.)

**Aver #5 1906-** Operator **Gen'l Coal Rept #65** Mine Name or No.

✓ 19 **Pana Coal Co #2**  
**Pana, Illinois**  
 Successor to  
 Date  
 Succeeded by **Glenn A Shafer** **Pana #2**  
 Date **1929** **Pana sel**  
 Succeeded by  
 Date

**PRODUCTION.**

							U. S. No.
1926	1600 T						
1927	108 587						
1928							
1929	Idle & abd.						

Geol. Notes? **Yes** Coop. No. Coal secs.? **Yes**  
 Analyses No. **407**  
**81142-3-4-5 #10**  
 Examined by **GEN'L COAL REPT. 65** Ref.

Coal bed name: Local **SHIPPING MINE** Survey No. **6**  
 County **Christian** Index No. **1715.08**

→ **K. - ACTIVE SHIPPING OR LOCAL COAL MINE.** **sale - 17-a**  
 County # 65



COAL MINE NOTES.

1715

COUNTY **Christian**

TOWN **Pana**

MAP No. **2515**

T. **11N**

R. **1E**

S. **15 SWcor. NWNW**

OPERATOR **Pana Coal Co.**

OFFICE

**Pana**

MINE **#2**

USED IN OOO.P. REPT. 1912.

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

COAL LAND OWNED

LEASED

HELD IN FEE

COST OF LAND OWNED

LEASED

HELD IN FEE

ADDITIONAL NOTES

**2515**

1715



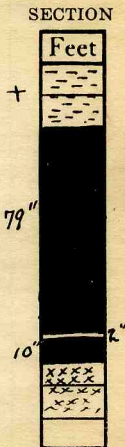


COAL MINE NOTES.  
CONTINUED.

OPERATOR **Pana Coal Co** MINE # **2** **1715**  
 ENTRANCE **Shaft** # **5**  
 ELEVATION **Pana 696 shaft 681 Key** NAME OF COAL BED  
 DEPTH TO FLOOR ~~727.6~~ **721.6** MAX. THICKNESS OF COAL  
 ALTITUDE OF COAL ~~15~~ **- 32 Top.** MIN. AV. **96**  
 LOCATION OF SECTION **4th N. E. Side.** USED IN COOP. REPT. 1912.

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

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



PHYSICAL PROPERTIES BY NUMBERS

ROOF **Blackslate**

FLOOR **Hd. fire clay**

DIP

FAULTS, ETC.

GAS

**#407**

COLLECTOR **Rutledge**

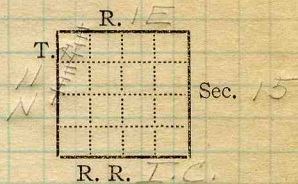
REFERENCE **NO. 6 p 23**

DATE

**2515**  
**1715**



Mine Name or No., *No. 2*  
*1* mile *N* from *Pana.*  
Operator, 191 *Pana Coal Co.*  
Operator, 191



Entrance, *shaft* Elev., ft.  $\left\{ \begin{array}{l} \text{above,} \\ \text{below,} \end{array} \right.$   
Depth to ~~bottom~~ coal, *722* ft. Alt.  
SURFACE DATA.

- A. Topography, *Flat* See
- B. Surficial materials. (1) Character, *Till*
- (2) Thickness, *No information* (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,

See

Coal bed name: Local, Survey No. *6*   
Collector, *Netzbund*  
Mine, *Pana #2* Co. *Christian* Index No. *1715.08*  
L.—SURFACE SHEET (Geol.)





F. Thickness of rock above bed worked, *No information*  
 (1) Important variations, *See*

G. Note presence of strata having important effect on mining, *See*  
*Shale roof requires heavy timbering X 2*  
 (1) Position, *Above coal*  
 (2) Character, *Varies from well-bedded black to dark grey*  
 (3) Persistence, *All over mine with few exceptions, massive*  
 (4) Other workable coal beds, *No information*  
*See*

H. Cap rock, *Limestone*  
 (1) Thickness, *No information*  
 (2) Height above coal, *Featheredge - 6'*  
*See*

I. Immediate roof, *Shale*  
 (1) Thickness, *Featheredge - 6'* (2) Contact with coal, *Clean & regular*  
 (3) Horizontal variation, *Varies from black fissil to dark grey massive*  
*See X 2*

J. Draw slate. (1) Thickness, *± 3"* (2) Contacts *Clean & regular*  
 (3) Persistence, *In a very few places in the east workings*

K. Coal bed: Max. *96* Min. *78* Av. *90* inches  
 (1) Benches, *3*  
 (a) Position, *Top coal, middle & bottom*  
 (b) Persistence, *Thruout mine.*  
*See*

(2) Bedded impurities, kind, position in benches, persistence, ease of separation. *Charcoal bands & lenses; Blueband composed of bands of pyrite & shale above & below a band of coal. Some places only 1 lb. band (1" to 8"). Shale bands 1/4 to 3/4" See*  
 (3) Irregularities in continuity of bed (due to deposition, erosion, or movement), *A few slips observed in the east*  
 (a) Effect on mining, *None.*  
*See X 1*

SECTION				
Ft.	In.	Name	<del>Color</del>	Sym.
7		Limestone		
6		Shale		
7 6		Coal		
?		Floorday		
<u>4' = 1 Dir</u>				





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

(a) Relative hardness, *About same hardness as Belleville district softer than most of Montgomery County*

(b) Lustre, *Bright with some glaucous grading thru dull to brassy*

(c) Fracture, *Blocky N35W Not well developed*

(d) Texture, *Laminated.*

See XI

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

(a) Kind, *Brita lenses, calcite or gypsum fit.*

(b) Position and persistence, *Thruout coal vertically & laterally.*

(c) Rejected, *Lenses above 1/2"* Ease of separation, *Break free*

See

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

(2) Thickness, *No information. At least 2 1/2'*

(3) Variation, *Hard in E., soft in W.*

(4) Note character, condition, tendency to heave, relation to undercutting commercial value. *Varies from a light grey to dark grey, very soft in west where it heaves, hard, limy clay in the east, softens when wet; only one machine used in mine, rast pick work, cutting out blueband & then shooting down, later taking up bottom coal; value unknown.*

See XI

(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, *Netzeband*Coal: Survey No. Mine, *Fano #2*Co. *Christian*

Index No.

*1715:08*

N.—UNDERGROUND SHEET (Geol.)





## INDEX

(36713-500-7-20)

L3

The floor is very soft in the West and heaves very badly. It has necessitated re-timbering the main haulage way twice and since then has heaved about 2'. Timbers have stood about 10 months.

Thickness of floor clay in this part of the mine is not known.

The clay in the East is very hard and gives no trouble. It softens when wet.

Lateral pressure is very great in this mine and posts set with a pitch of several degrees are soon pushed straight and eventually pitch in the opposite direction. The vertical pressure causes the coal to rash (chip off the ribs) and requires lagging and filling behind the lagging.

K5b

The top coal is bright with layers of glance  $\frac{1}{8}$  to  $\frac{1}{4}$ " thick running thru it. Going towards the bottom the coal grades into layers of dull & bright coal, dull predominating.

Below the blue band the layers are about  $\frac{1}{8}$  to  $\frac{1}{4}$ " thick with the bright predominating.

K3

There are a few small slips that were observed in the east workings. None of the observed slips showed any noticeable displacement. The gouge was a soft, grey clay and in places ran up to 4" thick. None of the slips extended for more than 2' into the coal. The slips do not run into the lime stone but are wholly within the black shale and the upper part of the coal.

Collector Netzeband

X-1

EXTRA NO.

Index No. 1715.08

County Christian





## INDEX

(36713-500-7-20)

The roof is mostly black shale varying in thickness from a feather edge to 8'. Above this on the East side is a brown limestone which is from 12" to 24" thick. This is absent from the west side.

Above this is the limestone. The lower contact is uneven sometimes with only an inch of shale between it and the coal. It appears to have been deposited on an erosional surface.

The black shale when thin is shot down leaving a lime roof. When left up, the shale requires heavy timbering.

In the east, there is from 3" to 6' of black shale, above which there is a band or lens of brown limestone grading to black shale both above and below. Above this lens there is from 6" to 21' of black shale. All of the black shale is of a massive character.

In some places, particularly at the parting, slips in the black shale occur.

In room 13, 3rd E <sup>straight</sup> Northeast the limestone tapers till there is only about 4" to 6" of black shale the projections of limestone extending downward in some cases rest directly upon the coal.

Collector Natzeband

X-2

EXTRA NO.

Index No. 1715.08

County Christian





Operator, *Pana Coal Co.*  
 Mine, *#2*  
 Location in mine, *5th N. W West side of mine.*  
 Date *Aug. 24, 1921*  
 Sec. *15* T. *11N* R. *1E*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)	
In.	No.	No. (Note character and thickness of roof)	Inches
		1 coal (left as roof approx)	15-18
		2 coal	2 1/4
		3 shale	1 1/4
		4 coal	4 1/2
		5 charcoal	1/2
		6 coal	6 1/2
		7 pyrite lens	1/2
		8 coal	12 1/4
		9 pyrite & charcoal	3/4
		10 coal	10 1/4
		11 soft, brown shale	1
		12 coal	4
		13 grey shale BB	2 1/2
		14 coal	14 1/4
<i>Top of 80 1/2</i>			
(Note character and thickness of floor)			
Total thickness of coal.			<i>79 1/2</i>
		Condition, <i>Damp, fresh</i>	Time, <i>5 hr. 18 min.</i>
		Wt. Gross, <i>25</i> lbs.	Net, lbs.
What Nos. shipped by Co.?			
Excluded from sample: No. <i>3, 7, 11, 13</i>			
Sample represents <i>74 1/4</i> in. tons.			
Impurities? How do they occur?			

(1 division=3 in.)

Sample No. *A-21-131* Can No. *840* Lab. No. *81142*  
 Collector, *Netzeband* Coal: Survey No.   
 Mine, *Pana #2* Co. *Christian* Index No. *1715.08*





Operator, *Pana Coal Co.* Date *Aug 24, 1921*  
 Mine, *No. 2* Sec. *15* T. *11N* R. *1E*  
 Location in mine, *Room 1, 12th W. East side of mine*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)	
In.	No.	No.	(Note character and thickness of roof) Inches
			<i>Black shale</i>
		<i>1</i>	<i>Coal</i> 36 $\frac{1}{4}$
		<i>2</i>	<i>Brown shale band</i> $\frac{3}{4}$
		<i>3</i>	<i>Coal</i> 4 $\frac{1}{2}$
		<i>4</i>	<i>Charcoal lens</i> $\frac{1}{4}$
		<i>5</i>	<i>Coal</i> 5 $\frac{1}{4}$
		<i>6</i>	<i>Charcoal lens</i> $\frac{1}{4}$
		<i>7</i>	<i>Coal</i> 4
		<i>8</i>	<i>Charcoal lens</i> $\frac{1}{4}$
		<i>9</i>	<i>Coal</i> 19
		<i>10</i>	<i>gray shale &amp; pyrite</i> } <i>BB</i> 1 $\frac{1}{2}$
		<i>11</i>	<i>Coal</i> 3 $\frac{1}{4}$
		<i>12</i>	<i>gray shale</i> 2
		<i>13</i>	<i>Coal</i> 10 $\frac{1}{2}$
			<i>Tape</i> 87 $\frac{1}{2}$
			(Note character and thickness of floor)
			Total thickness of coal. 1445 87 $\frac{3}{4}$ 1112
		Condition, <i>Dry, fresh.</i>	Time, 3 hr. 35 min.
		Wt. Gross, 30 lbs.	Net, lbs.
		What Nos. shipped by Co.?	
		Excluded from sample: No. 2, 10, 11, 12	
		Sample represents 80 $\frac{1}{4}$ in.	tons.
		Impurities? How do they occur?	

(1 division=3 in.)

Sample No. *A-21-132* Can No. *00087* Lab. No. *81143*Collector, *Netzeband* Coal: Survey No. Mine, *Pana #2* Co. *Christian* Index No. *171508*

R.—COAL SAMPLE SHEET.





Operator, *Pana Coal Co* Date *Aug. 24, 1921*  
 Mine, *No. 2* Sec. *15* T. *11 N.* R. *1 E.*  
 Location in mine, *Room 10, 3rd E. off Straight N. E.*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)	
In.	No.	No. (Note character and thickness of roof)	Inches
		1 Black shale	
		2 Coal	19 <sup>3</sup> / <sub>4</sub>
		3 Charcoal lens	<sup>1</sup> / <sub>4</sub>
		4 Coal	17 <sup>1</sup> / <sub>2</sub>
		5 Shale & band	<sup>1</sup> / <sub>4</sub>
		6 Coal	6 <sup>1</sup> / <sub>4</sub>
		7 Pyrite lens	<sup>3</sup> / <sub>4</sub>
		8 Coal	31 <sup>1</sup> / <sub>2</sub>
		9 gray shale, BS	1 <sup>3</sup> / <sub>4</sub>
		10 Coal	9 <sup>3</sup> / <sub>4</sub>
		11 Coal	
		Tape 88	
		(Note character and thickness of floor)	
		Total thickness of coal.	87 <sup>2</sup> / <sub>4</sub>
		Condition, <i>Damp, fresh</i> Time, <i>2</i> hr. <i>55</i> min.	
		Wt. Gross, <i>27</i> lbs. Net, <i>4</i> lbs.	
		What Nos. shipped by Co.?	
		Excluded from sample: No. <i>68</i>	
		Sample represents <i>85</i> <sup>1</sup> / <sub>4</sub> in.	tons.
		Impurities? How do they occur?	

(1 division=3 in.)

Sample No. *A-21-133* Can No. *836* Lab. No. *81144*  
 Collector, *Netzband* Coal: Survey No.   
 Mine, *Pana #2* Co. *Christian* Index No. *1715.08*  
**R.—COAL SAMPLE SHEET.**