

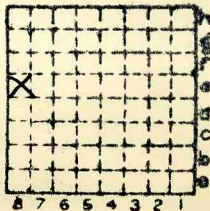


Form 180

Brewerton c.c.

Mi. #109

County #4



Sec. 32

T. 20 N. S.

R. 2 W.

Index No.



Location and Elevation Data

Location: Exact ~~Approximate~~

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

Location by W. B. Roe

Date 5-1-31 Notebook No. 602 Page 31-287

Looseleaf ref. _____

Map files No. 8-54-2a

Description of location

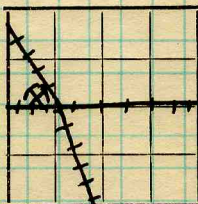
Position in sec., 1/4 sec., 40 acres

_____ feet from North line

_____ feet from East line

_____ feet from South line

_____ feet from West line



Sec. 32

T. 20 N.

R. 2 E.

W.

Farm _____

No. _____

Company _____

Brewerton Coal Co.

No. _____

County No. _____

Other description: _____

MN 1902

Elevation 590.6 ft.

By W. B. Roe

Method: Level, transit, alidade, hand level

Alidade

Elevation of Ground surface

Height of point above ground 0

Date 5-1-31 Notebook 602 Page 31-287

Looseleaf ref. _____

Map files No. 8-54-2a

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

SHIPPING MINE

County Logan

Quadrangle Lincoln

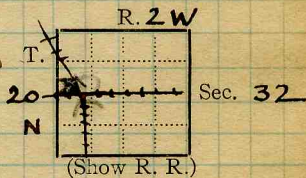
Index No. 0732





Town, **Lincoln** Surface alt., **590** ft.
 Local Authority, Depth to coal, **266** ft.
 Alt. top coal, **324** ft.
 Level: Auth., **Cady** *Top* Thickness: Av. **60** in.
 Max **62?** in., Min. **36** in.
 Method, **Top.map**

R. R., **Illinois Central: 2 branches** T.
C. & A.
 Location: authority, **Cady: See top.map** N



Aver # **7** 1883-1924 Operator Mine Name or No.

1918 Citizens Coal Mining Co Citizens

Successor to *1884 New*
 Date
 Succeeded by *Brewerton Coal Co*
 Date *620-230 8 Clark St. Chicago*
 Succeeded by *No. B3*
 Date *93*

PRODUCTION. *Permanently idle Q*

							U. S. No.
19	Usually about 600 tons daily						
1925-26	<i>Idle (Dept. Mines)</i>						
1927	<i>0</i>						

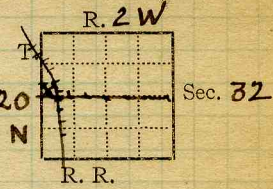
Locate on S side of E-W branch of RR. on top of hill. See top map p. 26

Geol. Notes? **Yes** Coop. No. **No** Coal secs? **Yes**
 Analyses No. **1889**
 Examined by **DeWolf 1908** **Cady 1918** Ref. *Loose 10 of*

Coal bed name: Local **No. 5** Survey No. **5**
 County **Logan** **SHIPPING MINE** Index No. **0732.15**
K.—ACTIVE SHIPPING OR ~~COAL~~ COAL MINE. Abd



Mine Name or No., **Citizens**
 1 mile **SE** from **courthouse**
 Operator, 191 **Citizens Coal Mining Co** 20
 Lincoln, Ill
 Operator, 191



Entrance, **Shaft** Elev., **590** ft. { above,
 { below,
 Depth to ~~bottom~~ coal, **266** ft. Alt. **324**
top SURFACE DATA.

A. Topography, **Rolling** See
 B. Surficial materials. (1) Character, **Till and sand and gravel**

(2) Thickness, **89-90'** (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc. **A "lake" of water in gravel 45 to 61 feet down. Gives considerable trouble; makes shaft very wet. See record of shaft in files.**

C. Outcrops, (1) Character, **None** 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, **No. 5**
 Collector, **Cady Dec. 11, 1918**
 Mine, **Citizens** Co. **Logan**
 L.—SURFACE SHEET (Geol.)

Survey No. **5**
 Index No. **0732**



- F. Thickness of rock above bed worked, **206 feet**
 (1) Important variations, **None known**

See

- G. Note presence of strata having important effect on mining, **None**

See

- (1) Position,
 (2) Character,
 (3) Persistence,
 (4) Other workable coal beds,

See

- H. Cap rock, **Commonly present**

- (1) Thickness, **up to 12-15 inches**
 (2) Height above coal, **3 to 6 feet**

See

- I. Immediate roof, **Black slate**

- (1) Thickness, **3 - 6** (2) Contact with coal,
Gen. sulphur streak sticks to both
 (3) Horizontal variation, **Bk st., less fissile**
where thickest

See

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

None

- (3) Persistence,

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

- (1) Benches, **No benches**
 (a) Position,

- (b) Persistence,

See

- (2) Bedded impurities, kind, position in benches, persistence, ease of separation. **Few thin stks of mothercoal or blackjack commonly 1/16" or less thick**

See

- (3) Irregularities in continuity of bed (due to deposition, erosion, or movement, **Many horsebacks**

See

- (a) Effect on mining, **Expensive and wasteful**

See

SECTION				
Ft.	In.	Name	Index	Sym.

Collector, **Cady; Dec. 11, 1918**Mine, **Citizens** Co. **Logan**

M.—UNDERGROUND SHEET (Geol.)

Coal: Survey No. **5**Index No. **0732**



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

(a) Relative hardness, **Coal fairly hard, with no particular characteristics**

(b) Lustre, **About as usual**

(c) Fracture,

(d) Texture, See

(6) Impurities in coal, other than bedded,

(a) Kind, **Clay seams ar horsebacks**

(b) Position and persistence, **about every 10-15 feet**

(c) Rejected, **Yes** Ease of separation, **Rather difficult.**
Much coal wasted See

L. Floor: (1) Material,

Fire clay

(2) Thickness, **5 to 6 feet .Not penetrated**

(3) Variation,

(4) Note character, condition, tendency to heave, relation to undercutting commercial value. **Heaves some where wet**

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 Dec. 11, 1918**
 Mine, **Citizens** Co. Logan
 N.—UNDERGROUND SHEET (Geol.)

Coal: Survey No. **5**
 Index No. **0832**



INDEX

K-3

The horsebacks are a source of considerable expense in this mine. Soemthing over a thousand feet of horseback waa paid for during the last month. The horsebacks are rather numerous but did not seem to be either very thick or very hard, as compared with horsebacks in the Peoria region. The expense of operation may be high on account of the system of paying for the dead work of mining horsebacks but the difficulties are considerably less than those encountered in several mines in the Peoria region.

The character of the horsebacks is apparently the same as that of the horsebacks in the mine north of town as described by White. Commonly the cracks extend up into the roof They vary greatly in width, from mere cracks with pyrite filling (veins) to cracks 3 to 4 inches wide, though not many where this wide. In the roof shale or cap rock the cracks were ^{rarely} ~~as~~ as much as an inch wide. There seemed to be no relation between the ^{occurrence} ~~occurrence~~ of the cracks and the character of the roof. It seemed to be evident that the filling of the cracks was thrust into them from above, judging from the direction of drag.

Collector Cady Dec. 11, 1918
 Mine Citizens Co. Logan
 X.—EXTRA SHEET No.

Coal: Survey No. 5
 Index No. 0732

0



INDEX

H The cap rock is a thin gray to whitish limestone, not continuous, and varying in thickness considerably. Generally it is present, and where the black slate is hard and fissile and about 3 feet in thickness the cap rock is thought to be generally present and thicker than elsewhere and harder. The acting mine manager Mr Kennedy seemed to think it was about 12 to 15 inches thick at such places. Elsewhere the limestone is more clayey softer and thinner, in places entirely absent.

I The immediate roof is a black shale which in places is hard fissile shale of the ordinary sort, carrying concretions. Over much of the mine, however, the shale seems to be softer and thicker and more massive, breaking down in chunks rather than in sheets. Where this is the case it is very hard to hold especially as the limestone is also thin or absent at these places.

Between the coal and the better slate there is usually a lense of pyrite, commonly about $3/4$ of an inch thick. This generally sticks to the slate and stays in the roof, a condition which is much desired, as where this pyrite band is present the roof stays up much better than elsewhere. Its absence is taken as an indication of bad roof conditions.

Very little sulphur in lenses, beds, shales, except upper band at roof

Collector **Cady** Dec. 11, 1918
 Mine **Citizens** Co. **Logan**

Coal: Survey No. **5**
 Index No. **0732**

ILLINOIS COAL MINE NOTES

TOWN *Lincoln* T. 20 R. 11 S. 32, SW of NW, W of SE. CO. *Jan.*
 COAL BED *5* DATE *10/23/09* COLLECTOR *De Wolf*
 OPERATOR *Citizens Coal Mining Co* MINE # *1* **NO. 2*
 HEAD OFFICE *There* 0732
 CAPACITY *800 T* MARKETS, FRT. *In coal Chgo. & Portine Hankoku*
 ENTRANCE *Shft 276 to floor; double, 7x14.* *Level - 14' x 26"*
 CAGE *Home made* ENGINES *2nd motion*
 DRUM *10' wood on steel*

SCREENS *shaker, round 1 1/4", 4", 6"; Revolv. square 1 1/8"* STORAGE *for RR Coal*
 VENTILATION *18' fan - chime Eng. Co. Reversed by doore.*
 GAS, SOURCE *same from old workings*
 COAL THICKNESS, AV *62* MAX. *72* MIN. - ELE. *shft = RR level;* FT.

SECTIONS LOCATED *Main West 400 yds from S*

No.	In.	No.	In.
1	<i>Coal</i>	7	
2		8	
3		9	
4		10	
5		11	
6			

TAPE

NOT SHIPPED NOT INCLUDED CAN SAMPLE

PHYSICAL PROPERTIES BY NOS. *coal very regular, no reg bands.*
Typical clay veins to 2' thick in thin roof & floor, all directions. Sulfur lenses uncommon; one 2" x 10" seen in middle.
 ROOF *Cap ls 16"±, slate 3' blocky, fat, bands & pellets of lt gr otherwise dk or bk.* FLOOR *fc 10'+. Some squeeze*
 DIP *"Like surface" ± flat.* CLEAT *not strong.*
 FAULTS, ETC. *Forebacks with 1'± local faults.*
 MACHINES *shot off solid*
 HAULAGE *mules - good grades, 16 lb iron throughout.* CARS *wood 2200. Br. 17-29.*

DRAINAGE *shft leakage only - 3 hrs daily.*
 WORKING SYSTEM *RoW*
 ENTRIES, MAIN *16* CROSS *16* ROOMS *30'*
 PILLARS, MAIN CROSS ROOM
 DRAWN *no* TIMBERS *Very expensive - Res. no. T vary with top.*
entries π continuous.

Note also: Variation in coal, impurities, roof, structure.
 Collect records, analyses, fossils. Note land values, etc.
Additional Notes. N.B. 9-P42 Grout Write for logs **NO. 2* 0732

See
Extra
Sheet
No.

Entrance *shaft*
 Kind of tippie *Wooden*
 Motive power for hoist *Steam.*
 Source if electrical
 Kind of hoist (cage, skip, etc.) *cage using 1 ton car.*
 Kind of haulage *Mule.*
 Mining equipment
 Note any features of the equipment that are of special interest

SURFACE DATA.

A. Topography, *Flat.*
 B. Surficial materials, (1) Character, *Till*
 (2) Thickness, *93'* (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc. *No information.*

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.

bag of shaft

See drill record sheet,

E. Notes on surrounding area,

Coal bed name: Local,
 Collector, *Netzeband*
 Mine, *Citizens*
 L.—SURFACE SHEET (Geol.)

Survey No. *5* Co. *Logan*Index No. *0732.15*



F. Thickness of rock above bed worked, *164.5' at shaft.*

(1) Important variations, *No information.* See

G. Note presence of strata having important effect on mining, *Black roof shale requires timbering* See

- (1) Position, *Above coal*
- (2) Character, *Black massive shale.*
- (3) Persistence, *All over mine.*
- (4) Other workable coal beds, *Coal beds above #5 one foot or less.* See

H. Cap rock, *Limestone.*

- (1) Thickness, *0-2'*
- (2) Height above coal, *2-4'* See XI

I. Immediate roof, *Shale.*

- (1) Thickness, *2-4'* (2) Contact with coal, *Clean & regular.*
- (3) Horizontal variation, *No variation* See XI

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

- (3) Persistence, *Practically none.*

K. Coal bed: Max. *72* Min. *54* Av. *62* inches

- (1) Benches, *None*
- (a) Position, *116'*
- (b) Persistence, See
- (2) Bedded impurities, kind, position in benches, persistence, ease of separation, *Charcoal & clay mixture lenses*

- (3) Irregularities in continuity of bed (due to deposition, erosion, or movement, *Many horsebacks.* See
- (a) Effect on mining, *Expensive to drive thru.* See

SECTION				
Ft.	In.	Name	Index	Sym.
18		Soil	↓	
3		Drift		
8		Blue clay		
16		Hard pan		
16		Sand & water		
24		Sand, hard pan & water		
3		Coarse gravel		
1	6	Hard pan		
3	6	Fireclay		
20		Eastern limestone		
1	6	Black sh.		
2		Fireclay		
12		Reddish clay		
2		Fireclay		
12		Conglomerate		
30		Brown sh.		
4		Black sh.		
1	5	Coal		
10		Fireclay		
22		Blue sandrock		
1		Black sh.		
3	6	Coal		
18		Blue ss.		
3		Saprotone		
7		Blue ss.		
1	7	Limestone		
5	5	Black sh.		
5	5	Coal		
		Fireclay		

Collector, *Natzband*
 Mine, *Citizens* Co. *Logan*

Coal: Survey No. *5*
 Index No. *0732-15*



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

(a) Relative hardness, *Same as Springfield district.*(b) Lustre, *Upper dull, lower dull & bright, bright predominating*(c) Fracture, *Hackly to blocky* | towards bottom(d) Texture, *Laminated* See

(6) Impurities in coal, other than bedded,

(a) Kind, *Pyrite lenses (3/8-4") calcite f.f. (1/32-1/16")*(b) Position and persistence, *In patches thruout the coal vertically & laterally*(c) Rejected, *Lenses over 1/2"* Ease of separation, SeeL. Floor: (1) Material, *Floor clay* ls. below.(2) Thickness, *16'-18'*

(3) Variation,

(4) Note character, condition, tendency to heave, relation to undercutting commercial value. *Light to medium grey, soft, with pyritic concretions; heaves upon standing for some time (several years); shoot from the solid; value unknown.*See

(5) Clay sample No.

Location,

M. Stratigraphy,

(1) Fossiliferous horizons underground, *Limestone*

Collection No.

Location,

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

SeeCollector, *Netzeband*Coal: Survey No. *5* Mine, *CITIZENS* Co. *Logan*Index No. *0732.15*



INDEX

The roof is black shale, massive when fresh, but laminated after long exposure. The fracture of this shale is N71E and N12E. It is from 2' to 4' thick and lies on the coal with an uneven contact in some places & an even contact in others. Calcite & pyritic nodules occur quite frequently especially in the lower part of the shale. The nodules project into the coal.

Above the sh. is a limestone, medium grey in the center but grading to dark grey or black both above & below. It is 8" to 10" thick where observed but is reported to pinch out in some places. Greatest thickness reported to be 24".

Above the ls is a smooth, medium grey sh. (soapstone). At intervals of about 1' brown, dolomitic bands, 1/2" to 1" thick, are found. Brown, dolomitic spots were also observed. At the point observed, the shale had fallen showing a thickness of at least 3'.

The black sh. was left for a roof almost everywhere. It makes a fairly satisfactory roof but requires timbering to hold. Very often the sh. falls to the ls.

The ls. makes an excellent roof but the cost of removing the sh. makes it impracticable to let the sh. come down.

Collector Thurston

Mine Citizens Co. Logan

X.—EXTRA SHEET No. 1

Coal: Survey No. 5

Index No. 0732.15



Operator, *Citizens Coal Co.* Date *Sept 13, 1921*
 Mine, *Citizens* Sec. *32* T. *20N* R. *2W*
 Location in mine, *11th S off Main E*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)	
In.	No.	No. (Note character and thickness of roof)	Inches
		<i>Shale roof</i>	
		<i>1 Coal</i>	<i>4 9 1/2</i>
		<i>2 Charcoal & clay lens</i>	<i>1 1/4</i>
		<i>3 Coal</i>	<i>1 1/2</i>
		<i>4 Charcoal & clay lens</i>	<i>1 1/2</i>
		<i>5 Coal</i>	<i>1 2 1/2</i>
(Note character and thickness of floor)			
Total thickness of coal.			<i>6 3 1/4</i>
			<i>9.06</i>
Condition, <i>Dry, fresh</i>		Time, <i>4</i> hr.	<i>—</i> min.
Wt. Gross, <i>23</i> lbs.		Net, lbs.	
What Nos. shipped by Co.?			
Excluded from sample: No. <i>4</i>			
Sample represents		<i>62 3/4</i> in.	tons.
Impurities? How do they occur?		<i>Calc. to ft. (1/16)</i>	
(1 division = 3 in.)		<i>Charcoal & clay lenses</i>	

Sample No. *N-21-151* Can No. *06251* Lab. No. *81591*
 Collector, *Netzaband* Coal: Survey No.
 Mine, *Citizens* Co. *Logan* Index No. *0732.15*



Operator, *Citizens Coal Co* Date *Sept. 13, 1921*
 Mine, *Citizens* Sec. *32* T. *20N* R. *2W*
 Location in mine, *Face of Back North*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)	
In.	No.	No. (Note character and thickness of roof)	Inches
		<i>Black shale roof.</i>	
		<i>1 Coal</i>	<i>5 1/2</i>
		<i>2 clay and charcoal lens</i>	<i>1/2</i>
		<i>3 Coal</i>	<i>56 1/4</i>
		<i>4</i>	
		<i>5</i>	
		(Note character and thickness of floor)	
		Total thickness of coal.	<i>62 1/4</i>
		Condition, <i>Damp, fresh</i> Time, <i>3 hr. 15 min.</i>	<i>10110</i>
		Wt. Gross, <i>22 lbs.</i> Net, <i>lbs.</i>	
		What Nos. shipped by Co.?	
		Excluded from sample: No. <i>2</i>	
		Sample represents <i>61 3/4</i> in.	tons.
		Impurities? How do they occur?	

(1 division=3 in.)

Sample No. *H-21-152* Can No. *06133* Lab. No. *81592*
 Collector, *Natzeland* Coal: Survey No.
 Mine, *Citizens* Co. *Logan* Index No. *0732-15*
R.—COAL SAMPLE SHEET.



Operator, *Citizens Coal Co* Date *Sept 13, 1921*
 Mine, *Citizens* Sec. *32* T. *20N* R. *2W*
 Location in mine, *9th 5 stub off Main W.*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)	
In.	No.	No.	(Note character and thickness of roof) Inches
			<i>Black shale roof.</i>
		<i>1</i>	<i>Coal 13 1/2</i>
		<i>2</i>	<i>Charcoal lens 4</i>
		<i>3</i>	<i>Coal 2</i>
		<i>4</i>	<i>Charcoal lens 1 1/2</i>
		<i>5</i>	<i>Coal 9</i>
		<i>6</i>	<i>Charcoal & clay lens 5 3/8</i>
		<i>7</i>	<i>Coal 5 1/2</i>
		<i>8</i>	<i>pyrite lens 3 1/2</i>
		<i>9</i>	<i>Coal 13 1/4</i>
		<i>10</i>	<i>pyrite lens 2 1/4</i>
		<i>11</i>	<i>Coal 9 1/2</i>
			<i>Top 58 1/2</i>
			(Note character and thickness of floor)
			Total thickness of coal. <i>58 5/8</i>
		Condition, <i>Dry, fresh</i>	Time, <i>1 hr. 50 min.</i> <small>1240 11150</small>
		Wt. Gross, <i>18</i> lbs.	Net, lbs.
		What Nos. shipped by Co.?	
		Excluded from sample: No. <i>6, 8, 10</i>	
		Sample represents <i>52 1/4</i> in.	tons.
		Impurities? How do they occur?	

(1 division=3 in.)

Sample No. *N-21-153* Can No. *06253* Lab. No. *81593*
 Collector, *Netzeband* Coal: Survey No. *5*
 Mine, *Citizens* Co. *Logan* Index No. *0732.15*