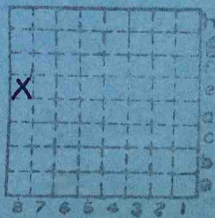




Form 180 Blue

Phoenix C.C.

28



Sec. 7

T. 25

R. 4

Index No.

✓  
810

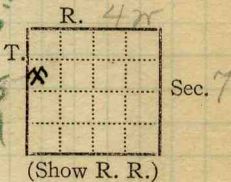
Town, Peoria Surface alt., 535 ± ft.  
 Local Authority, Mr. Sherman Engle Depth to coal, 85 ft.  
Groveland Coal Mfg Co. Alt. top coal, 450 ± ft.  
 Level: Auth., Cady mine notes Thickness: Av. 52 in.  
 Max. 56 in., Min. 36 in.

Method,

R. R., Peoria & Pekin Union C + A.

Location: authority, Mine notes Cady

abd. - 26 ntd blank  
Operator



Mine Name or No.

**Coal M'g**

19 15 Groveland Colliery Co.

No. 1

Successor to

Phoenix Coal Co.

Date

Succeeded by

Groveland Coal Mining Co. McCauley  
Bldg. Chicago 25, 1926

Date

Succeeded by

Date

**PRODUCTION.**

	<u>Illinois</u>						U. S. No.
1917	<u>217</u>	<u>491</u>					
	<u>About 800T (700-1000)</u>						
<u>1918</u>	<u>2000 tons av. daily</u>						

Geol. Notes? Yes

Coop. No. 7

Coal secs.? Yes

Analyses No. 1412

Examined by Cady July 20, 1918

Ref.

Coal bed name: Local **SHIPPING MINE**

Survey No.

County Tazewell

Index No. 0407-18

**K.—ACTIVE SHIPPING OR LOCAL COAL MINE.**

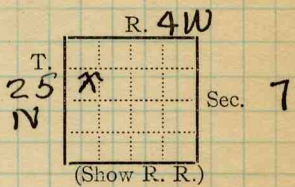
Town, **Wesley**  
Local Authority,

Surface alt., ft.  
Depth to <sup>bot</sup> coal, **100** ft.  
Alt. top coal, ft.  
Thickness: Av. in.  
Max. in., Min. in.

Level: Auth., **Mine notes**

Method,

R. R.,



Location: authority, **Mine notes**

Operator

Mine Name or No.

19 **Chas. J. Off**  
**(12 Coal rpt.)**

**Phoenix No. 1**

Successor to **Phoenix Coal Co.**

**No. 1 (Hilliards)**

Date

Succeeded by

Date

Succeeded by

Date

**PRODUCTION.**

										U. S. No.
19										

Geol. Notes? **Yes** Coop. No.

Coal secs? **Yes**

Analyses No. **1412**

Examined by

Ref.

Coal bed name: Local **SHIPPING MINE**

Survey No.

County **Tazewell**

Index No. **0407**

**K.—ACTIVE SHIPPING OR LOCAL COAL MINE.**



STATE GEOLOGICAL SURVEY.

0407

*Housekeeping*

COUNTY *Tazewell*  
TOWNSHIP *25N*

RANGE *4W*

	6	5	4	3	2	1
X	7	8	9	10	11	12
	18	17	16	15	14	13
	19	20	21	22	23	24
	30	29	28	27	26	25
	31	32	33	34	35	36

Operator *Chas. J. Off.*  
Office address *Peoria. Phoenix Coal Co.*  
Mine name or number *(A2 coal nphi)*

Surface at mine is \_\_\_\_\_ feet above sea level  
or about \_\_\_\_\_ feet (above) (below) railroad  
station at \_\_\_\_\_

Depth to bottom of coal is \_\_\_\_\_ feet

Average thickness of coal is \_\_\_\_\_ feet \_\_\_\_\_ inches

Kindly note changes in name and address

*\*0507*

0407

Mine Name or No. 1 Mine Address Peoria

Operator Groveland Coal Co <sup>Mining</sup>

Main Office Address McCormick Building

Chicago

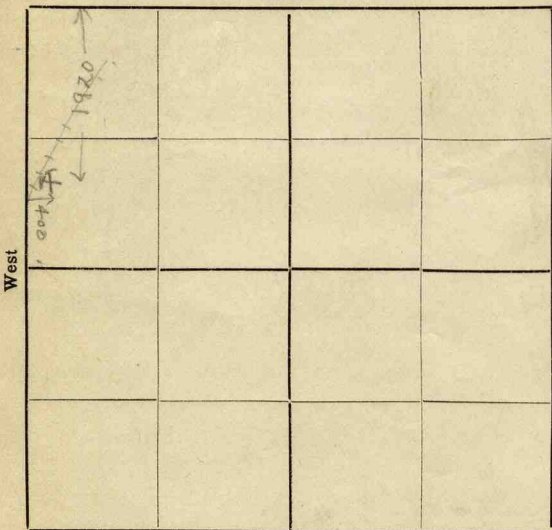
Location of Mine:

Township Name Groveland County Tazewell

Section No. 7 Township 25 N Range 4 W <sup>N</sup> <sup>W</sup> <sup>E</sup> <sup>W</sup>

Indicate location of mine and position of R. R. in plat of section below.

North



Kindly state number of feet from quarter section lines:

1920 from N. line

..... from E. line

..... from S. line

400 from W. line

Idle entire year 19 18 Yes No

Abandoned (date) 19.....



South

**SHIPPING MINE**

Surface landing is.....feet above sea level or about.....feet (above) (below) railroad station at.....(nearest town).

Depth to top of coal is 85 feet.

Data from Mr. Sherman Engineer

Average thickness of coal is 4 feet 4 inches.

Cady

Do not fill in below this line.

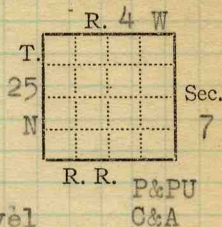
Coal Bed Name 5

Survey No. 5

County Tazewell

Index No. 0407

Mine Name or No., No 1  
 1 mile S from Wesley  
 Operator, 191 Groveland Mining Coal Co,  
 Operator, 191



Entrance, Shaft Elev., 535 ft.  $\left\{ \begin{array}{l} \text{above,} \\ \text{+ below,} \end{array} \right.$  sea level  
 Depth to bottom coal, ft. Alt.

SURFACE DATA.

- A. Topography, Relief of nearly 450 feet See  
 B. Surficial materials. (1) Character, Glacial drift  
 (2) Thickness, (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc.

- C. Outcrops, (1) Character, See Peoria Quad map 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.  
 Probably some available

See drill record sheet,

- E. Notes on surrounding area,  
 Mine reported to lie south of one of the faults for which Peoria County is famous. Not encountered in this mine.

See

Coal bed name: Local, Survey No. 5

Collector, Cady July 20, 1918

Mine, Groveland No 1 Co. Tazewell Index No. 0407

L.—SURFACE SHEET (Geol.)

- K. (5) Physical character of coal in benches, No benches present
- (a) Relative hardness, Coal softer around horsebacks elsewhere fairly hard
- (b) Lustre, Bright and dull streaks as usual
- (c) Fracture, Nothing noteworthy
- (d) Texture, " " See
- (6) Impurities in coal, other than bedded, Bright sulphur
- (a) Kind, in vert. streaks and in horsebacks
- (b) Position and persistence, Not persistent nor common
- (c) Rejected, Sometimes Ease of separation, Not very easy, stick to coal See
- L. Floor: (1) Material, Fire clay
- (2) Thickness, Not noted. Prob 2 ft or more
- (3) Variation,
- (4) Note character, condition, tendency to heave, relation to undercutting commercial value. Heaves when wet and seems to hold water so that the floor is difficult to drain

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, G. H. Cady July 20, 1918  
 Mine, Groveland #1 Co. Tazewell

Coal: Survey No. 5   
 Index No. 0407

- F. Thickness of rock above bed worked, **Consid. Variation due to**  
 (1) Important variations, **ravines. No effect on mining**  
 except outcrop along bluff **See**
- G. Note presence of strata having important effect on mining, **Sandstone**  
 above coal. **See X-1**
- (1) Position, **0 to 20 to 25 ft. possibly more**  
 (2) Character, **Massive channel sandstone**  
 (3) Persistence, **Practically persistent**  
 (4) Other workable coal beds, **See**

- H. Cap rock, **Limestone 2 to 8 inches**  
 (1) Thickness, **about 2 feet** **See X-1**  
 (2) Height above coal, **about 2 feet**  
 (3) "Clod" - **dk gray shale**
- I. Immediate roof, **Black slate**  
 (1) Thickness, **14-16"** (2) Contact with coal, **Tight. Poor prtgs above and below**  
 (3) Horizontal variation, **Persitent except**  
 where cut out by ss. **See**

- J. Draw slate. (1) Thickness, (2) Contacts **X-2**  
 Call lower 2" st. & attached coal d.s.  
 (3) Persistence, **Persistent X-2**

- K. Coal bed: Max. 56 Min. 36 Av. 52 inches  
 (1) Benches, **None coal no partings**  
 (a) Position,  
 (b) Persistence, **See X-2-4**

- (2) Bedded impurities, kind, position in benches, persistence, ease of separation.  
**Thin 1/4" or less bands of clay and mother coal at various places in bed none persistent and not very imp.**  
**See**
- (3) Irregularities in continuity of bed (due to deposition, erosion, or movement, **Horsebacks**  
**See X-3-4**
- (a) Effect on mining, **Expensive** **See**

SECTION				
Ft.	In.	Name	Index	Sym.
6-		SS	G	
20±		Sh		
4± to 12±		Sh		
6-8		Ls (caprk)		
14"		clod		
8-				
14"		Blst		
4	4	Coal		
?		Frc		



## Extra notes

## Groveland No. 1

- G. The massive channel sandstone has the same appearance and the same relation to the coal as the sandstone in the Walben mine (Brewster & Evans) on the west side of the Illinois. The sandstone has a very irregular base and accordingly lies at various positions above the coal, in some places being entirely absent and in others resting practically on the coal. Conditions in this mine are considerably worse than in other mines from the fact that the sandstone apparently carries considerable water which tends to work down into the underlying shale especially where it is loosened by mining and cause the material to drop. It is reported practically impossible to hold the roof when what is called the drawslate comes down. This condition is in contrast with the condition in the mine of the Warsaw Coal Company at Edwards where a parting a few inches above the coal and in the black slate leaves a fine even roof that is reported to stay in good shape. In the Groeland mine when the "draw slate" comes down it is soon followed by all the rest of the material up to the sandstone. In some places this may mean as much as 20 feet of material. As a result ~~garbage~~ <sup>garbage</sup> is excessive in this mine, and it is difficult to see how the mine can be profitably carried on.

- H. The so-called cap-rock is a layer of fossiliferous gray limestone 2-8 inches thick which in places is hard; more commonly shaly with no supporting strength. Miscalled cap-rock

The clod is rather massive dark gray shale which does not possess any supporting strength, Falls readily.

Cady July 20, 1918

Coal No. 5

Groveland Coal Co. Mine No. 1

Index No. 0407

Extra Sheet No. 1

Tazewell Co.

I. The immediate roof is the same black slate found all over Peoria Co. Contains the usual white limy markings, and some concretions. Biggest concretions I have seen in the region were in this mine. Some 1 ft, to 14 inches thick by 24" by 12" They are not especially numerous, I doubt whether any more numerous than the concretions in the roof of No. 6 coal in the Centralia region. Do not appeal to me as being especially characteristic.

! The contact of the slate and coal is tight. The break occurs commonly an inch or two below the slate. If it breaks in the slate then they lose the roof, and it falls as is noted above. The contact of coal and slate is commonly accompanied by a thin line and in a few places in the mine by balls of sulphur. Usually bright cryst, sulphur. This sulphur streak is not commonly over 1/4 inch thick, in fact it is usually nothing but a streak,

J. The draw slate has been described above as being the lower part of the slate and upper part of the coal. Effort is to keep it up if possible.

K. The coal is very uniform in thickness. The only departurs from uniformity are near the horsebacks or rolls. In these rolls the coal is commonly shoved apart and one side usually slips down the effect being a small step fault. The angle of fracture is usually acute. The result is that the horseback is commonly accompanied by what is known as a roll in the roof the vertical distance from the fire clay to roof commonly being reduced to about 3 feet. The sketch on the next page will illustrate the relationships.

Cady July 20, 1918 Coal No. 5

Gröveland Coal Co, Mine No. 1

Extra sheet 2

Tazewell Co, Index No, 040

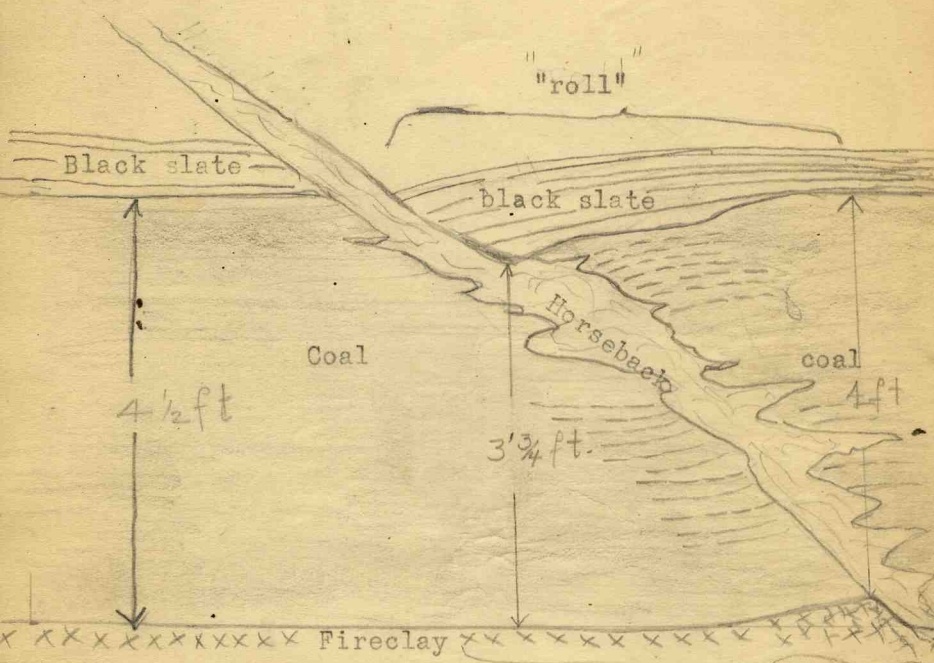


Fig. 30

K2 - About the only bedded impurities are the thin streaks of clay and mother coal noted. On the east side of the mine sulphur bands like the brown sulphur found in the Walben mine are found near the horsebacks. These commonly are about  $1\frac{1}{2}$  inches thick and may be 4 to 5 feet long or less. They are not very pure sulphur, apparently being interlaminated sulphur and mother coal, tho this may not be the case.

Cady July 20, 1918 Coal No. 5  
 Groveland Coal Co Mine No. 1

Tazewell Co Index No. 0407

Extra sheet No. 3

K  
K Measured sections:

Room 1 3rd stub off the 6th east entry

Coal 4'3" No sulphur Thin streaks of clay and mother coal.

Black slate roof and fire clay floor  
Poor parting between coal and slate.

Room 6 off the 10th east entry

Coal 17" -  
Brown sulphur 1 3/4"  
Coal 34 1/4"

---

53"

"K-3 On the east side of the mine where conditions are especially bad they have what are called blind slips in the coal and slates. These seem to be horsebacks without any clay filling. In the coal they are commonly filled with what the miners call "spar". This seems to be bright crystalline sulphur rarely as much as 1/4" thick. These are very hard to drill. As the fracture runs up into the slate there is apparently nothing in to mark it. It makes the roof very poor, however, and it is difficult to get the miners to work in the east entries,

Cady July 20, 1918 Coal No. 5

Groveland Coal Mg Co

Extra Sheet 4

Tazewell

Index No. 0407

In general the mining conditions in this mine are about as bad as they can be and still get coal out. Great credit attaches to the management in their apparent ability to make the operation successful. Costs are excessive because of the weak roof and the high pumping costs. As many as six pumps have been going at once in the mine. At present there are 4 I believe. A room that is dry one night may have a fall during the night and water will be pouring in in the morning.

:

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Cady  
Groveland Coal Mining Co No. 1

July 20, 1918

Coal No. 5

PYRITE  
GEOLOGICAL OCCURRENCE

See  
Extra  
Sheet  
No.

1. Manner As bands o brown pyrite in some of the rooms, especially toward the east where horsebacks are numerous. Re atively few in number
2. Size of Masses  $1\frac{1}{2}$  - 3" x 3 - 4' long Very irregular
3. Measurements to determine amount

No.	Location in mine	1		2		3		4		5		Total		Px3	P %
		C	P	C	P	C	P	C	P	C	P	Coal	Pyrite		
1	10th off 6 E  Pyrite less than 1%	5	4	1	1	3	0	0	0	1	1	3			
2															
3															
4															
5															
6															
7															
8															
9															
10															

4. Notes	Total Average
----------	------------------

5. Samples.

Label No.	Location in mine	Analyses, etc.

6. Notes

Collector G. H. Gady      Date July 20, 1918      Coal No. 5  
 Operator Groveland C Co      No. 25  
 Mine No. 1  
 Y-PYRITE SHEET (1)      Tazewell      Index No. 0407



**PYRITE  
RECOVERY**

See  
Extr  
Shee  
No.

7. Method of rejection of pyrite

- (1) In mine Picked out of coal
- (2) Per cent rejected much less than 1%
- (3) At tippel
- (4) Per cent rejected

8. Per cent of pyrite in rejected lumps 25 - 50

9. Possible daily production of pyrite

Negligible

10. Possibility of future production

None

11. Pyrite ever cleaned and shipped?

- (1) Method
- (2) How loaded
- (3) Consignee
- (4) Price F. O. B. cars

12. Washing: Daily tonnage of refuse

- (1) Maximum size
- (2) Pyrite in refuse, per cent:
- (3) Samples. No.
- (4) Sulphur samples. No.
- (5) Conditions of recovery

13. General conclusion as to pyrite recovery Too small amount and mostly low grade

Collector Cady Date July 20 1918 Coal No. 5

Operator Groveland Coal Co  
Mine No. 1 Co. Tazewell

Index No. 0407

Z PYRITE SHEET (2)







COAL MINE NOTES.

04

COUNTY *Tazewell*

TOWN *Wesley.*  
Mine *1 1/2 miles S.E. of*

MAP No.

OPERATOR *Phoenix Coal Co*

OFFICE *Peoria Ill.*

MINE *Hilliards. (Phoenix)*

TIPPLE

ENGINES

BOILERS

DRUM

SHAFT

CAGE

HAULAGE *Rope + Mule. Rope for about 1000', on account of*

CARS *1 tall 1/2 ton Wood.*

*Lorader*

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 *Condition fairly good.*

PROPORTION OF COAL UTILIZED

AMOUNT AND CHARACTER OF WASTE

ACREAGE OF COAL MINED

ACREAGE OF COAL REMAINING

PROPORTION OF MINE RUN AND SCREENED COAL *All mine Run.*

METHOD OF SIZING *Small bar screen*

RESCREENED

SIZES

PER CENT

PROPORTION AND SIZE OF WASHED COAL

DAILY OUTPUT *250 tons.*

UTILIZATION *Screenings used to make steam at mine.*

MARKETS

FREIGHT RATES

SELLING PRICES AT MINE

0407?

COAL LAND OWNED

LEASED

HELD IN FEE

COST OF LAND OWNED

LEASED

HELD IN FEE

ADDITIONAL NOTES