

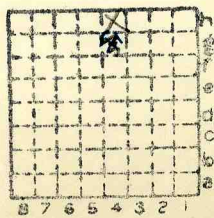


Form 180

Consolidated ec #15

5-2
mi. #68

257



Sec.	9
T.	7 ^{N.} _{S.}
R.	6 ^{E.} _{W.}
Index No.	



Area mine restoration projects in state plans

By DENNIS McMURRAY
Of The Telegraph

and The Associated Press
SPRINGFIELD, Ill. (AP) — Illinois will be able to restore almost 1,700 acres of land around abandoned coal mines with \$13.6 million in federal reclamation funds, officials say.

The funds will be used to restore land or eliminate safety hazards around 36 abandoned mines, said Lt. Gov. George Ryan, chairman of the Abandoned Mined Lands Recla-

ALTON 3-3
mation Council.

Telegraph area projects planned under the funding include covering of gob piles — piles of coal mine waste — near White City and Staunton, and engineering for additional work on a controversial reclamation project at Staunton.

A largely level 42-acre gob area of Consolidated Coal Co. No. 15 Mine at White City will be reclaimed at an estimated cost of \$400,000, said Tim Hickmann, executive director of the Reclamation

Council. The work will involve putting a foot to a foot and a half of soil and planting of vegetation over the gob area, which is across the road from a larger reclamation project done last year.

An 8-acre gob disposal area with scattered refuse from the Mt. Olive & Staunton No. 1 Mine in Madison County, about 1.3 miles south of Staunton, will also be reclaimed this year, at an estimated cost of about \$60,000, Hickmann said.

The Council also expects to spend about \$60,000 this year for an engineering study for additional reclamation work on the Consolidated Coal Co. No. 14 mine at Staunton. That project was the first major reclamation work undertaken in the state in 1976, however, continuing acid seepage from the area has been criticized by area residents. Actual construction work at the site would not be done until 1988.

"Through our work, problems such as open shafts, dilapidated mine buildings, toxic refuse and spoil, sedimentation and acid drainage will be abated," Ryan said.

Since 1977 the state has salvaged almost 4,000 acres of environmentally damaged land, turning it into public parks, wildlife habitat and pasture, said Rep. Robert Michel, R-Ill., in a joint press release with Ryan.

Michel said there are about 7,000 more acres in Illinois in need of reclamation.

Reclamation can include filling in mine openings, neutralizing and burying acid waste, razing old buildings and seeding reclaimed ground, said council spokeswoman Kim St. Aubin.

The largest project will be a \$1.8 million effort to reclaim Banner Mine in Fulton and Peoria counties, said Ms. St. Aubin. Contractors will clean up 100 acres of acid refuse, acid ponds and old buildings, she said.

An additional \$1 million will be used to clean up the 70-acre Allendale mine site in Stark County, Ms. St. Aubin said.

Most of the other mines targeted for reclamation are in Southern Illinois.

Although there have been no recent accidents at abandoned mines, open shafts and acid wastes from coal refuse present threats to the public and the environment, said Ms. St. Aubin.

7
8
9
10
11
12
13
14

*Also owners

#See ow

Railroad, Wagon, Strip, Idle, Abandoned

IDENTIFICATION

County No. _____

Coal No. _____

Coal Report No. _____



Quad. _____

County _____



8 7 6

COAL MINE OPERATOR





Mine originally operated by: (1)

Date **Consolidated Coal Co.**

1904

Original name or number: **#15**

Illinois Coal Report **1904** p.

LATER OPERATORS

Date Operator Name or No.

2 **Sank shaft in 1904**

3

4

5

6

7

8

9

10

11

12

13

14

620'S 100'E of NW Corn. NW NE (1948) 1946 OK

* Also owners

#See ownership sheet

Railroad, Wagon, Idle, Abandoned **Shaft**

Sa. Side spur

Wabash

IDENTIFICATION

County No. **257**

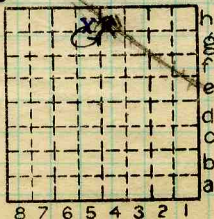
Coal No. **6**

S-2 Gillespie

Quad. **200 (1948)**

Part **7**
7'6"

County **Macoupin**



Sec. **9**

T. **7**

R. **6**

Index No.

2409 h4

COAL MINE OPERATOR



(Sheets) COAL PRODUCTION (Sheet)

No.	Period						Tons	
	Mo.	Day	Year	Mo.	Day	Year		
						1935		
						Cap. 1926		4 000
						1927		598 703
						1931	1	008 199
						1932		475 442
2	1	1	1936	12	31	1936		779 752
2	1	1	1937	12	31	1937		496 108
S-2	1	1	1938	12	31	1938		258 536
						1939		390 803
						1940		297 486
2	1	1	1941	12	31	1941		691 582
2	1	1	1942					787 648
						1943	1	031 193
						1944	1	006 211
						1945		978 859
						1946		896 126
						1947		930 878
						1948		764 862
						1949		592 442
						50		474 333
						51		72 246

#2

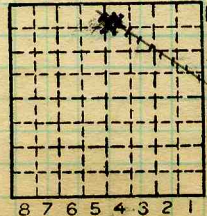
SUMMARIES

No. 1904	to	No. 1935	17 027 286
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Railroad, Wagon, Idle, Abandoned

IDENTIFICATION

S-2
 County No. 257 Coal No. 6
 Gillespie
 Quad. 200 Part 7
 County Macoupin



h g f e d c b a
 Sec. 9
 T. 7
 R. 6 W.
 Index No. 2409 h4

COAL MINE—PRODUCTION



LOCATION AND ELEVATION

Location: P.S.M. side R. R.
 Map 9-59-21 S side spur of Wabash R. R.
 side Highway No.

✓ on top. map Location sheet ✓

Elevation: Method, 1. Est. () _____ ft.
 2. Inst. (kind Alidade) 654.4 ft.

By P.S. McClure, NB 591, p. 51 Data sheet

DEPTH

Authority Illinois Coal Rept, 1905, p 295 To coal 362 ft.
 Authority _____ Rail to rail _____ ft.
 Top of coal above rail. (Est. Rule) _____ ft.
 To coal 375 ft.

ALTITUDE OF TOP OF COAL

By estimated data _____
 By instrumental data _____

292 ft.

Thickness

Max. _____ in. Min. _____ in. Aver. 92 in. 90 ✓

GEOLOGICAL DATA

Mine notes, date 1907 _____
1912 _____

Coop No. 68 Pyr. inv. _____ Coal Ash inv. _____

CHEMICAL DATA

Analyses Face	U. I.	<u>5112-13-14</u>	B. M.	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
<u>#68</u>	U. I.		B. M.	Others

Classification R.I. 123 U.C.I. 144

Misc. tests: Coking. _____ Cleaning _____ Boiler _____

Published descriptions:— Ill. Coal Report, 1905, p. 295

Railroad, ~~Wabash~~

IDENTIFICATION

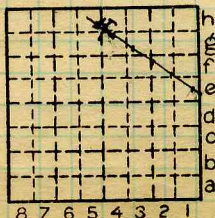
County No. 257

Coal No. 6

Part 7

Quad. Gillespie (200)

County Macoupin



Sec. 9

T. 7 N.

R. 6 W.

Index No.

2409.4k

COAL MINE LOCATION AND DATA



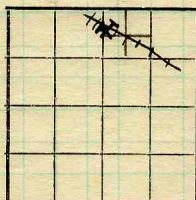
Location and Elevation Data

Location: Exact ~~Approximate~~
(Approximate only if no trace or record of original exists)

Location by PSM
Date 9-7-29 Notebook No. 57 591 Page 51-388
Looseleaf ref. _____
Map files No. 9-59-21

Description of location

750
540 feet from North line
_____ feet from East line
_____ feet from South line
2710 feet from West line



Sec. 9
T. 7 N.
S.
R. 6 E.
W.

~~From~~ Mine #15
No. _____

Company
Consolidated Coal Co

No. 15
County No. 257

Other description: _____

Aver #14 (1904-)

375' to 7'8" coal

654
375
+279

Elevation 654.4 ft.

By Cons PSM

Method: Level, transit, alidade, hand level

Alidade

Elevation of Rail

Height of point above ground 0

Date 9-7-29 Notebook 591 Page 51-388

Looseleaf ref. _____

Map files No. 9-59-21

Description of item: (drill hole, mine, etc.) Mine #15

(Act. Ship. Mines)

County Macoupin X ✓
Quadrangle Gillespie (200)

Index No. 2409.44 ✓
94



Consol. #15

6th N, off 12th W off Main N

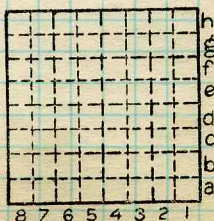
Vitrain band, thick (about 1"), beneath ls. roll. This vitrain was in the rotten bl. slate immediately over the coal. This rotten, black slate is at the minimum thickness in this general vicinity, being 2" to 4" in thickness, and was overlain by about 2" clod.

Along Main N., lenticular strata of hard black slate were observed, with a max. thickness of 4' to 4½'. Where black sl. was absent, or at minimum thickness, the ls. was

By Spotti & Payne Date 8/17/40

Quad. Gillespie Part

County Macoupin



Sec.

T. N.
S. S.
E. E.
R. W.
a. W.

Index No.

COUNTY NO. 257

2409H4



Consol. #15

rolly and irregular, at these places the "clod" and also some rotten bl. sl. are present. ~~Incidentally, at this mine the minerals refer to this rotten bl. slate as "clod". However, it is not like the "clod" at Superior #4.~~

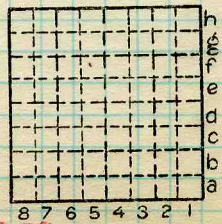
This clod, in general, resembles that noticed in the Superior Mine. When fresh it is dark gray and hard. Upon exposure and oxidation it becomes lighter in color and crumbles easily in the hand.

16th W off Main N — full observed. 17" of bl. slate, 1'-2" of clod and about

By Spotti & Payne... Date 8/27/42

Quad. Gillespie Part

County Macoupin



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

COUNTY NO. 257

2409 H 4



Consol. #15

7 1/2' of coal. Thin shell of caprock also has come down with the clod. It's thickness - about 2".

Thin pyrite band, immediately between coal and ls. slate also persistent in this mine. This phenomena apparently is consistent throughout this area.

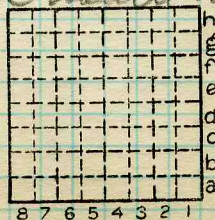
Mr. Dave Neil, Mine Mgr., reports a thin seam of coal, about 2' 4", between 2 layers of the cap rock. In Room 3, 8th S, off 15th W, off Main S. ~~Thin~~ Lower bench of ls about 8" and same for upper.

Roof conditions in this mine now very good. In south workings,

By Spatti & Payne... Date 8/17/40

Quad. Gillespie Part

County Macoupin



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

COUNTY NO 257

2409 H4

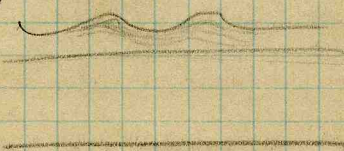


Consol. #15

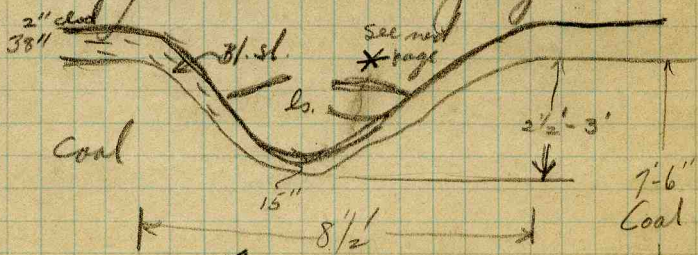
INDEX

near #7 workings there was some soapstone.

at 15 W off Main N. by 3rd S. Very rough and rocky cap rock. ls. very pitted, with "holes" about 3' in diameter exposed in cap rock. Bl. slate filled the holes but bottom of the bl. sl., or top of coal was horizontal.



ls. boulders observed in 15th W off Main N, near 3rd S. with bl. sl. bending & thinning beneath the projection



Redrawn on next page.

Collector Spotti & Payne

Mine Consol. #15 Co. Macoupin

X.—EXTRA SHEET No.

Coal: Survey No.

Index No.

COUNTY NO. 257

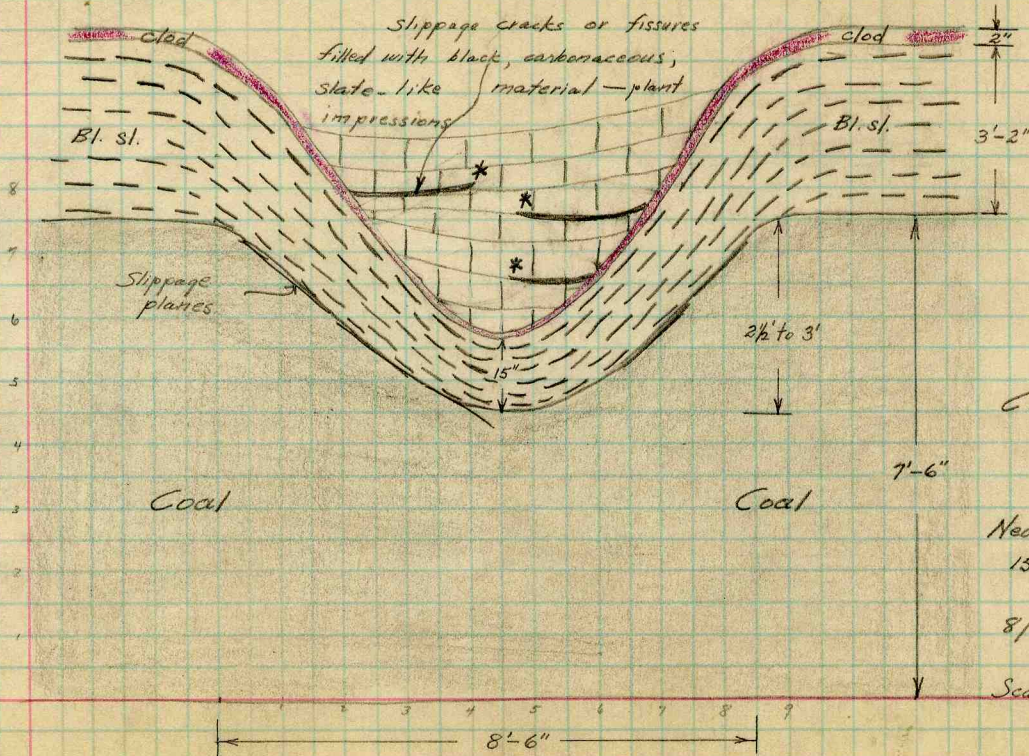
6

2409H7

8/17/40



John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves, each Patented 1906. 315186



Consolidated
Coal Co.
#15

Near 3rd S, off
15th W, off Main N.

8/17/40 By: A. E. Spotti

Scale: Feet

COUNTY NO. 257

Spotti & Payne
Consol. #15

2409 H4



INDEX

Consol. #15

* Slippage fissures or cracks
~~observed~~ observed in the ls. boulder,
 these ~~fracture~~ fissures or cracks
 being filled with a ~~dark~~, black,
 carbonaceous slate-like material
 with plant impressions present.

Mr. Dave Neil reported draw
 slate in 4th S off 10th W off
 Main S. Coal and normal bl. sl.
 both parted cleanly from the draw
 slate - resulting in falls of face.

Collector Spotti & Payne
 Mine Consol. #15 Co. Macoupin
 X.—EXTRA SHEET No.

COUNTY NO.

Coal: Survey No.

Index No.

240944
 8/17/40

6

257



Consol. #15

INDEX



cap rock.
 clay slon
 1-6" ls.
 2" clod - containing ls. nod., about 1/4"
 17" sl. sl.
 Pyrite band

Room 24, 16th W
off Main N

7 1/2' coal.

This section exposed in recent fall. Some "slip" present in sl. sl. but not nearly as abundant as in #7



In 6N off 12W off Main N the clod is 4" thick and contains streaks of coal with some pure vitrain. A sample of vitrain was collected here for J.M. Schoft. The rolls in the limestone in this area are small being only 6" to 12" deep.

In the 15W near 3rd N limestone rolls considerably but the top of the coal is level.



In the 15W and the Main N the black slate is from 0' to 4" thick showing some rotten black shale at top.

Section measured in Rm 24, 16W, off Main N was:

- Ls 1'-6"
- clod, lonsds 0'-2"
- BK sl 1'-5" (some slips in black slate)
- Coal 7'-6"

In room 1, 5th N, 16W, Main N two ls bosses well displayed with abundant slips surrounding them, some of the slips penetrating the limestone.

According to Dave Neal the Superintendent there was exposed in Room 2, 3S, 15W, Main S the following section:

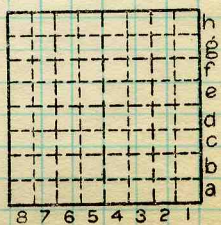
- Ls caprock ?
- Coal 0'-3"
- Ls 0'-4"
- clod 0'-2"
- coal 7' +

Date 8/17/40 T. R.

Quad. Consolidated No. 15 Part

County Macombia Index No.

Visited With Dave Neal, # spotti;

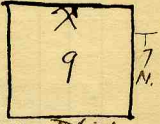




COAL MINE NOTES.
CONTINUED.

Macopin, Mt. Olive.
 OPERATOR *Consolidated Coal Co. of St. Louis.*
 ENTRANCE _____ NAME OF COAL BED _____
 ELEVATION *645 Kay U.S.* THICKNESS OF COAL _____
 DEPTH TO FLOOR *369?* MAX. MIN. AV. *7'*
 ALTITUDE OF COAL *276*
 LOCATION OF SECTION *Room #6, 1st E. off. North.*

MINE #15



No.	SECTION.	In.
1	<i>Coal</i>	<i>73</i>
2	<i>Blue Band</i>	<i>1</i>
3	<i>Coal</i>	<i>16</i>
4		
5		
6		
7		
8		
9		
10		
11		
12		
Tape		Total <i>90</i>

SAMPLE No. *R6M*
 CAN No. _____
 CONDITION _____
 GROSS WEIGHT _____
 TIME EXPOSED _____
 NOT SHIPPED _____
 NOT INCLUDED *2*



PHYSICAL PROPERTIES BY NUMBERS

Coal mined with punchers.
Coal much like coal in Mine #14

ROOF *Black slate. few inches to 2' above Ls. 32' thick.*
Most of mine shows coal directly under rock.

FLOOR

DIP

FAULTS, ETC.

GAS

COLLECTOR *Rutledge*

REFERENCE *N.B.G. P.39.*

240914
 DATE

County No. 257

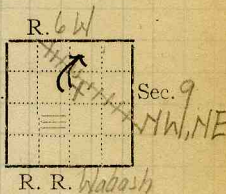


COAL MINING INVESTIGATIONS
COOPERATIVE AGREEMENT

Mine Name or No., 15

2 mile W from Mt. Olive

Operator, 1912 Consolidated Coal Co of St Louis. 7 N T.



Operator, 191

Entrance, shaft. Elev., 660 ft. } above,
Depth to bottom coal, 387± ft. } below, Alt.

SURFACE DATA.

A. Topography Flat to Rolling. See

B. Surficial materials, (1) Character

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

No trouble with quick sand

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,

Write to St Louis for log of shaft.

See

Coal bed name: Local, 6

Collector, K D White

Mine, # 15

L.—SURFACE SHEET (Geol.)

Survey 6

State No. 2409 H4

Co-op. No. 68

Co. Macoupin County #257



UNDERGROUND DATA

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

See

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

Black slate

See

- (1) Position, *Between Ls. and Coal*
- (2) Character, *sheety, carbonaceous*
- (3) Persistence, *Local, irregular.*
- (4) Other workable coal beds,

See

H. Cap rock, *Limestone*

- (1) Thickness, *33'*
- (2) Height above coal,

See

I. Immediate roof *Black slate + Ls.*

- (1) Thickness, *0'-4' ; 33'*
- (2) Contact with coal, *Yes.*
- (3) Horizontal variation,

Ls. varies in quality

See #3.

J. Draw slate. (1) Thickness, *Clod + Black slate.* (2) Contacts

- (3) Persistence *Irregular See sheet 3*

K. Coal bed: Max. 8'-9" Min. 7'-0" Av. 7'-6" inches

- (1) Benches,
 - (a) Position, *See sheets #1 & #2*

- (b) Persistence,

See

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

Blue Band Steel Band etc.

See #7 & #12

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

Few or no irregularities See sheets

- (a) Effect on mining,

See

SECTION			
Ft.	In.	Name	Index Sym.

Collector, *KDW*
 Mine, *15*

Coal, *6*
 Co. *Macopin*
 (Geol.)

State No. *2409* #4
 Co-op. No. *68*

M. - UNDERGROUND SHEET County No. *257*



UNDERGROUND DATA (cont'd.)

- K. (5) Physical character of coal in benches,
- (a) Relative hardness, *Top Coal hardest, then bottom*
 - (b) Lustre, *Bright to Dull.*
 - (c) Fracture, *slightly conchoidal to irregular*
 - (d) Texture, *Solid to Banded.* See
 - (6) Impurities in coal, other than bedded,
 - (a) Kind, *Sulphur balls + masses.*
 - (b) Position and persistence, *Irregular*
 - (c) Rejected, *Yes.* Ease of separation, *by hand.* See

- L. Floor: (1) Material *Fire Clay.*
 (2) Thickness *2" to 14"*
 (3) Variation *Fairly constant.*

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

Clay does not heave, and is filled with pebbles towards bottom.

Below Clay is a bastard ls. Cleavage planes are well developed Bear N 70° E. Limestone is a dove colored compact non crystalline, stone of irregular fracture. Ls. vis 3' in but at bottom.

See Sheet 3

(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, *KDW*
 Mine, *15*

Coal *6*
 Co. *Macoupin*

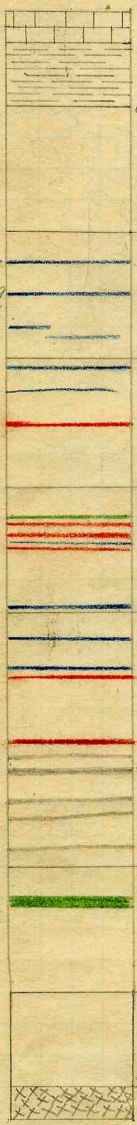
State No. *2409* *HA*
 Co-op. No. *68*



INDEX

K

Top Coal
parting
Mother
Coal.



Limestone
Black Slate. Cleat N70°E Face.

0
Top coal, hard bright brittle, mostly glance coal. A little calcite along faces, slightly banded.

1
Top Coal 15"
Coal more band, and bands of mother coal.

2
Coal duller, less banded. Considerable dull coal.

3
Coal mostly dull coal fairly blocky.

4
Coal dull, only a band or two of glance coal. Less blocky than previous numbers.

5
Coal very dull, streak a dirty brown. A few bands of mother coal. Glance coal scattered thru in bands.

6
Middle Bench 5'-0"
Band of a gray shale 8'-1/2"
Bottom Coal 1'-5"
Coal is hard, but softer than the top coal, it is dull, with knife edges of sulphur, and thin bands of mother coal. Glance coal in bands is scattered thru matrix. Coal does not contain as much dirt as usual.

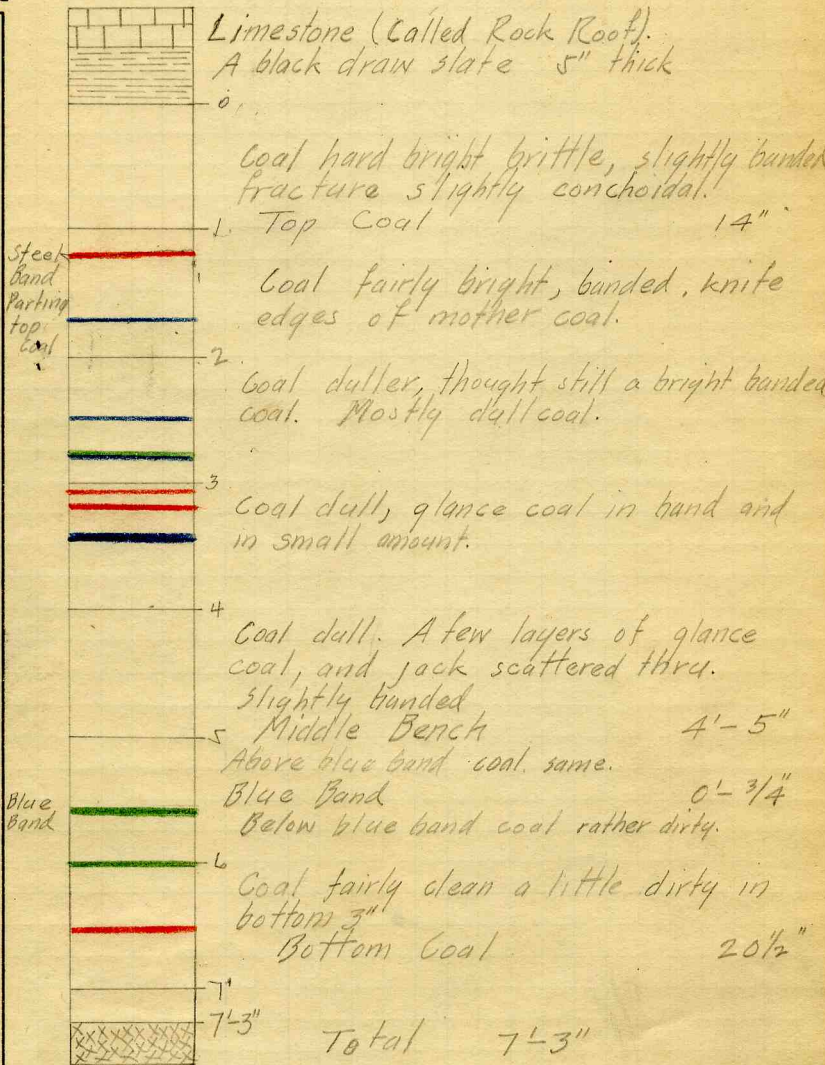
7-9'

Cleat is poorly developed.
Room 32-1st West South.

#2



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Little or no calcite in bed

Room 20 - 5th West, South.
Cleat N33°W
N70°E

Collector KDW

Coal 6

State No. 2409 H4

Mine 15

Co. Macoupin

Co-op No. 68

X.—EXTRA SHEET No. 12

County No. 257



INDEX

- J Clod is very irregular and very local in occurrence generally 2" to 3" thick.
- K₃ A few (bits); limestone cutting slightly into the coal, occur.
- G_{7H} Black Slate is generally from 12" to 15" thick but thickens up to 4' in some places. Where the slate is 3" to 6" thick it forms a draw that comes with the coal. The slate is very hard to keep up and sooner or latter is taken down to the cap rock. Concretions occur in it but are few in number.
- L Jump was sunk 10' in limestone, in thin bed separated by layers of shale. Bed just below fire clay 5" thick.
- K₅ No top coal is left as roof.
- H. Limestone as a roof is excellent when parting is clean. At other times parting is irregular and limestone nodular. It falls in shells generally 2" to 3" thick.

Collector KDW

Coal 6

State No. 2409 H 4

Mine 15

Co. Macoupin

Co-op No. 68

X.—EXTRA SHEET No. 3

County No. 257



COAL MINING INVESTIGATION

COOPERATIVE AGREEMENT

Operator, *Consolidated Coal Co.* Date, *7-17* 191*2*
 Mine, *#15* Located *2* miles* W. from *Mt. Olive*
 Location in mine, *Room #20 off 5th West off ~~North~~ South*
 Total (vertical) depth from surface at point of sampling, *380* 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 tippel).

SECTION OF BED AT POINT SAMPLED

No.	DESCRIPTION	FEET	INCHES
<i>x1</i>	<i>Roof Limestone</i>		
<i>x2</i>	<i>Draw Slate - black</i>		<i>5</i>
<i>3</i>	<i>Coal - hard bright clean</i>	<i>Top bench</i>	<i>14</i>
<i>4</i>	<i>Coal - Rather Dirty</i>		<i>19 3/4</i>
<i>5</i>	<i>Mother of Coal - Soft.</i>		<i>3 1/4</i>
<i>6</i>	<i>Coal - dirty</i>		<i>3 1/2</i>
<i>7</i>	<i>Sulphur</i>		<i>2 1/2</i>
<i>8</i>	<i>Coal - fairly clean</i>		<i>5 1/2</i>
<i>9</i>	<i>Mother of Coal - soft</i>		<i>2 1/2</i>
<i>10</i>	<i>Coal - fairly clean - dull</i>	<i>2</i>	<i>5 1/2</i>
<i>x11</i>	<i>Sulphur</i>		<i>14 1/2</i>
<i>12</i>	<i>Coal - dull - fairly clean</i>		
<i>x13</i>	<i>Blue band - Gray Shale</i>	<i>95</i>	
<i>14</i>	<i>Coal - clean hard - bright</i>		
<i>15</i>			
<i>16</i>	<i>Floor - fire clay -</i>		
<i>17</i>			
	TOTAL,	<i>7</i>	<i>8 1/2</i>

Is coal wet or dry? *Dry - ✓*
 Time exposed, *0* hours, *35* minutes.
 Weight, *55#* gross, net.

What are the impurities, and how do they occur? *Sulphur - shale -*

mother of coal in horizontal bands

What are shipped? *3, 4, 5, 6, 7, 8, 9, 10, 12, 14*

What are excluded from the sample? *1, 2, 11, 13*

Coal bed, *No. 6.*

*Direction (N., NE., etc.).

†Nearest railway station.

Town, *Mt. Olive -* Mine, *#15* Co. *Consolidated Coal Co -*
 Sample No. *68 B* Can No. *St. D 13 -* No. *68 2409 H4*

I. - COAL SAMPLE SHEET. Sampler. *Smith + Nebel -*

#5112

County No. 257



COAL MINING INVESTIGATION

COOPERATIVE AGREEMENT

Operator, Consolidated Coal Co. Date, July 17 1912
 Mine, No 15 Located 2 miles from Mt. Olive
 Location in mine, Room 32 - 1st West 50th
 Total (vertical) depth from surface at point of sampling, 380 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 tippie).

SECTION OF BED AT POINT SAMPLED

No.	DESCRIPTION	FEET	INCHES
X1	Roof-Black Slate (0 to 3ft)		
2	Coal-Top Bench-Clean-Hard		15
3	Sulphur Parting		
4	Coal-fairly clean-hard		14
5	Sulphur		$\frac{1}{8}$
6	Coal-fairly clean		9
7	Sulphur		
8	Coal-very dirty		15
X9	Bone + Sulphur		$\frac{1}{2}$
10	Coal-Dirty		6
11	Sulphur		$\frac{3}{4}$
12	Coal		$\frac{1}{8}$
X13	Blue band Gray Shale	1	3
14	Coal-Hard-fairly Clean	1	1
15			$\frac{1}{2}$
16	Floor fire clay		4
17			
	TOTAL,	7	9 $\frac{3}{8}$

96

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? Pyrite-bone, Shale
& Mother of Coal in horizontal streaks.
 What are shipped? 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 14.
 What are excluded from the sample? 1, 9, 13

Coal bed, No 6.

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

Town, Mt. Olive Mine, No 15 Co. Consolidated
 Sample No. 68A Can No. St V 12. No. 2409

I.—COAL SAMPLE SHEET. Sampler, Nebel & Smith. # 5113 County No. 257 H4



COAL MINING INVESTIGATION

COOPERATIVE AGREEMENT

Operator, *Consolidated Coal Co* Date, *July-17* 191*2*
 Mine, # *15* Located *2* miles* W from *Mt Olive*
 Location in mine, *Room #20 off 3rd East North*
 Total (vertical) depth from surface at point of sampling, *380* 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 tippel).

SECTION OF BED AT POINT SAMPLED

No.	DESCRIPTION	FEET	INCHES
X 1	Roof-Black Shale -		
2	Coal-Top Bench-hard-clean-bright		12
3	Coal-hard clean bright	2	2 $\frac{1}{4}$
4	Bone & pyrite		4 $\frac{1}{2}$
5	Coal-dull-dirty		3 $\frac{3}{8}$
X 6	Pyrite		11 $\frac{1}{4}$
7	Coal-clean bright-hard		4 $\frac{1}{8}$
8	Pyrite -		4 $\frac{1}{2}$
9	Coal-dirty-banded dull & bright	1	4 $\frac{3}{4}$
X 10	Pyrite -		2 $\frac{3}{8}$
11	Coal		2 $\frac{1}{8}$
X 12	Blue band-hard grey shale	94	2 $\frac{1}{4}$
13	Coal-dull-clean		2 $\frac{1}{8}$
14	Pyrite -		2 $\frac{1}{8}$
15	Coal-very blocky-hard-clean-bright	1	2 $\frac{1}{4}$
16	Floor-fire clay		
17			
TOTAL,		7'	10"

Is coal wet or dry? *Dry*
 Time exposed, *0* hours, *30* minutes.
 Weight, *50#* gross, net.

What are the impurities, and how do they occur? *Pyrite & CaCO₃ in cleat; Pyrite*
Bone, Shale, & little black-jack bedded horizontally
 What are shipped? *2, 3, 4, 5, 7, 8, 9, 11, 13, 14, 15*
 What are excluded from the sample? *1, 6, 10, 12*

#5714

*Direction (N., NE., etc.).

Coal bed, *No. 6*
 Nearest railway station.

Town, *Mt. Olive* Mine, # *15* Co. *Consolidated*
 Sample No. *68VC* Can No. *St. D 47* No. *Coal Co.*
 I.-COAL SAMPLE SHEET. Sampler. *Smith + Nobel* *2409*

Macoupin. County No. 257



Consol. #15

- 5-1 1) ✓ 15th W off Main N, near 3rd S
 ls. boulder, fractured & filled with
 carbon structural.
- *4
- 5-3 2) ✓ 16th W off Main N.
 Fall with exposed sections
 and lower sh. of ls.
- could not find: 3) X Thin pyrite lenticles between
 sl. sh. & coal.
- *4) ✓ 15th W off Main N, near 3rd S.
 5-2 Very rocky & lumpy ls with
 sl. sh. overlying the coal.

9/11/40



Consolidated #15

Clod is very irregular and very local in occurrence generally 2" to 3" thick.

A few teats of ls. cutting slightly into the coal occur.

Black slate is generally from 12" to 15" thick but thicken up to 4' in some places. Where the slate is 3" to 6" thick it forms a draw that comes down with the coal. The slate is very hard to keep up and sooner or later is taken down to the cap rock. Concretions occur in it, but are few in no.

Sample was sunk 10' in ls., in thin bed separated by layers of sh. Bed just below fireclay 5" thick.

No top coal is left as roof.

Limestone as a roof is excellent when parting is clean. At other times parting is irregular and ls. nodular. It falls in shells generally 2" to 3" thick.

Cap Rock; ls.

1) Thickness — 33'

Immediate roof — bl. slate & ls.

1) Thickness — 0'-4' ; 33'

2) Hor. variations — ls. varies in quality

Draw slate — clod & bl. slate.