

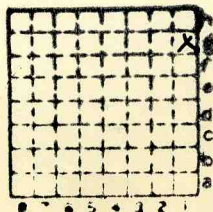


SEE ADDITIONAL INFORMATION filed
IN CTY #170 SEC 3-8N-5W MONTGOMERY
CTY

See correspondence file # 361-14
for further information on this
mine. A Copy is in the MOA files for
Montgomery Co.

Litchfield C. of M. Co

Co # 163



Sec. 32

T. 9 N. S.

R. 5 E. W.

Index No.

✓



FORM 180 W

Litchfield Mining Co. Mine about 3/4 mile north of city square. Former book keeper R. G. Mathias now replaced by Mr. Cary. Cordial but not well informed. Verified some data re coals.

The lowest seam worked @ about 750' has been taken from all sides of the shaft. Much coal removed from entries and rooms. First pillars robbed. The second coal - 535' is now operated. Main workings to the northeast, east and south 100 yards. But shows a boney ("blue band") layer near the bottom or at the bottom, with a sandstone parting near the middle. Including the sandstone the coal bed varies from less than 24" near rolls, to 96" where highest. The shaft from memory by a miner follows:

County No. 170

Surface n.d.

Coal 6" at 300'

Coal 42" with light shale band 5"—12" @475'

Coal 42"-96" with sandstone near middle @535'

Coal 48"-60" with rock top (limestone) @750'

Published on letterhead of Company gives:

	As rec'd	Dry
Moisture	1094	---
Vol.Mat.	3951	4436
Fixed C.	4324	48.55
Ash	6.31	7.09
Sulphur	1.97	2.22
B.t.u.	11810	13263

Top coal was worked northwest of shaft only. Workings in middle coal (535) show 1'-4' dip away from shaft. Coming up again at north.

By H.E. Culver Date 1923

Quadrangle Mt. Olive

County Montgomery

Sec. ³² ? T 9N? R 5W



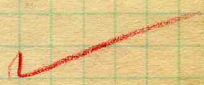
Mine ~~originally~~ operated by: (1) **LITCHFIELD M. & P. Co.**
 Date **1895 COAL REPORT** **LITCHFIELD**

Original name or number:
 Illinois Coal Report p.

LATER OPERATORS

Date	Operator	Name or No.
1904	GIRARD COAL Co. - Quade -	
2 1905	ILLINOIS COLLIERY Co	7
3 1909	LITCHFIELD COAL Co	1
4 1915	ABANDONED	
5 1920	LITCHFIELD C & M Co.	

6
7
8
9
10
11
12
13
14

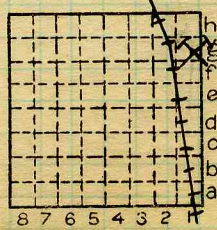


* Also owners # See ownership sheet

Railroad, Wagon, Idle, Abandoned 1920

SHIPPING MINE IDENTIFICATION

County No. **163.** Coal No.
 Quad. **201.** Part **2**
 County **MONTGOMERY**



Sec. **32**
 T. **9** N.
 R. **5** W.
 Index No.

1032.18

COAL MINE OPERATOR



Litchfield Mine

685' to Litchfield Coal
4'8" c -

GEN'L COAL REPT. #163

9N 5W 32 F1

ILLINOIS COAL MINE NOTES

1

TOWN *Fitchfield* T. 9N R. 5W S. 32 R. 2E 1/4 *Montgomery* CO.
 COAL BED *2?* DATE *Sept 12 1908* COLLECTOR *Jou Udden*
 OPERATOR *Fitchfield Coal Co (all colliers)* MINE *# 7* ~~1002~~
 HEAD OFFICE *Fitchfield, Ill.*
 CAPACITY *400* MARKETS, FRT. *Chicago & local*
 ENTRANCE *Shaft 680' to bottom of coal.*
 CAGE *Fitchfield hand dump* ENGINES *Fitchfield 20X36* ^{1st Mt}
 DRUM *Wooden cast iron 8'*
 SCREENS *1/4 diamond bar Rescreen, shaker 2" 3/4" 1/4"* STORAGE

VENTILATION *Crawford MacCrummon 12' blades 4'*
 GAS, SOURCE *In main east entry in pockets in coal*
 COAL THICKNESS, AV. 56 MAX. 84 MIN. 26 ELE. 6904 FT.

SECTION LOCATED *Room #7 3rd East of straight North*

No.	In.	No.	In.
1		7	
2		8	
3		9	
4		10	
5		11	
6			

1 *Fire clay*
 2 *Coal* 15 1/4
 3 *Sulphur* 1/8
 4 *Coal* 28 1/2
 5 *Black jack sulphur* 1 1/2
 6 *Coal* 17 1/2
 7 *Mother coal + sulphur* 1/2
 8 *Coal* 6
 9 *Sulphur + shale* 3
 10 *Gray shale*
 11
 TAPE *68"*

NOT SHIPPED NOT INCLUDED 5 & 7 CAN 30 SAMPLE U 256
Fuel Eng. Co., Udden # 257 tag 89x # 1842

PHYSICAL PROPERTIES BY NOS. *Coal #8 has a brighter lustre and softer than any of the other parts. Coal as a general rule breaks up into cubes.*

ROOF *Lead 0-3'; gray shale 0-10'; ls. 1'-5 1/2'*

FLOOR *Fire clay ± 12' shale +'*
 DIP *NW 3%* CLEAT *SE - NW usually shoot with cleat*

FAULTS, ETC. *+ Rolls cutting coal in places within 2' floor*

MACHINES *none, hand mined, shot on solid*

HAULAGE *mule*

CARS *1 1/2 ton wooden*

DRAINAGE *+ in main N water hauled in boxes*

WORKING SYSTEM *Room & pillar*

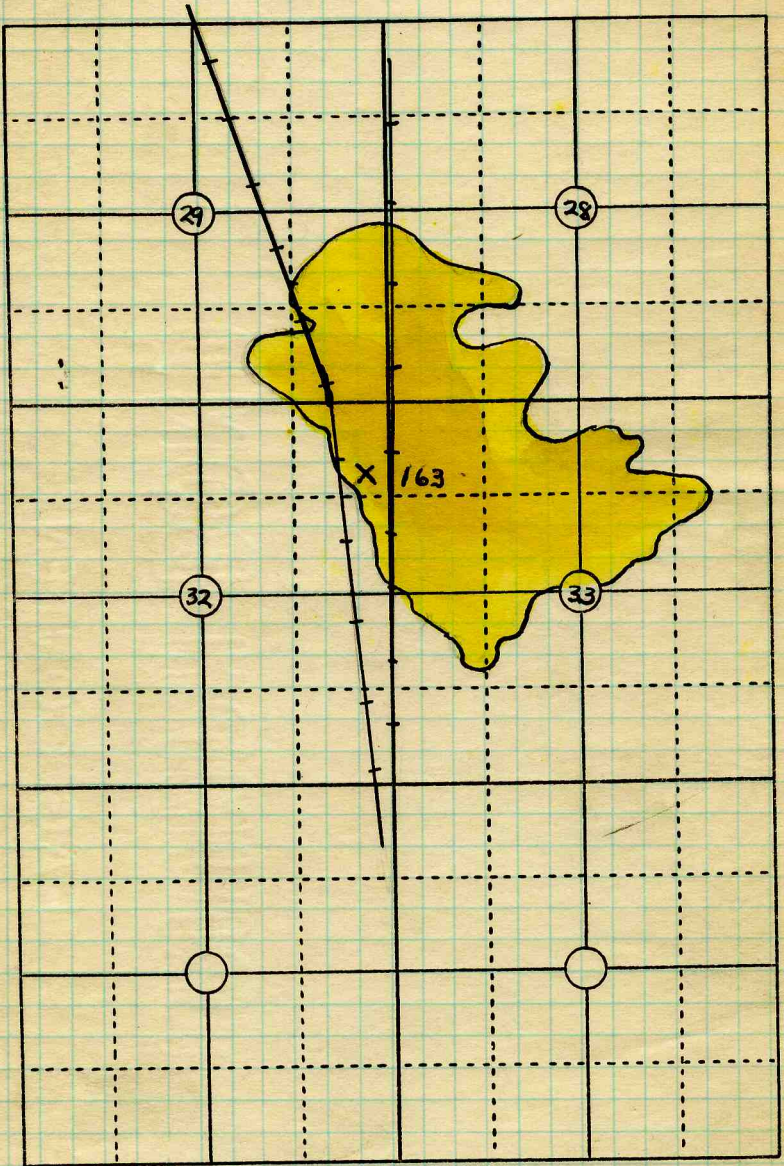
ENTRIES, MAIN *10'* CROSS *12'* ROOMS *25'-30' 200'*

PILLARS, MAIN *30* CROSS *20'* ROOM *20'*

DRAWN *no.*

TIMBERS *in entries.*

in main north pillars 40x put close together
 Note also: Variation in coal, impurities, roof, structure.
 Collect records, analyses, fossils. Note land values, etc.



T9N, R5W.

Date

Operator

Name or No.

County *Montgomery* *Litchfield C. & M. Co.*
 Index No. *1032-18*



Mine originally operated by: (1)

Date
1895

Litchfield Coal & Mining Co

Original name or number:

"Northwest Mine"

Aver #2

Illinois Coal Report

p.

LATER OPERATORS

Date	Operator	Name or No.
2		
3	Mined 1913-1920 1895-96	3 beds 465 4' 7" 6 coal 550 3' 6" 2 lower
4	1896-1913	690 6' 0" 1 Litchfield coal
5		J.C.Q.
6		
7		
8		
9		
10		
11		
12		
13		
14		

* Also owners

#See ownership sheet

Railroad, Wagon, Idle, Abandoned 1920

SHIPPING MINE

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County No. 163

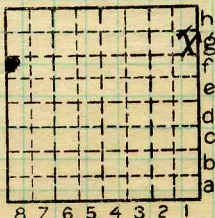
Coal No.



Part 2

Quad. 201

County Montgomery



Sec. 32

T. 9 N. E.
R. 5 W.

Index No. 1032

COAL MINE OPERATOR



(2 Sheets) COAL PRODUCTION (Sheet 1)

Period		Tons
Mo. Day Year	Mo. Day Year	
OPENED	1895	5 541
	96	26 000
Litchfield coal	97	49 115
	98	43 020
	99	52 020
	1900	65 174
	01	66 257
	02	93 264
	03	88 613
	04	105 114
ILL. COLL. Co. #7	05	71 577
	06	73 626
	07	78 595
	08	50 019
LITCHFIELD C.C. #1	09	42 163
	1910	36 070
	11	38 000
LITCHFIELD C.C. #7	12	49 050
	13	20 533
TO LOCAL MINE	1914	4 000
	15	NO PRODUCTION
	16	NO PRODUCTION
	17	NO PRODUCTION

SUMMARIES

No. to No.

Railroad, Wagon, Strip, Idle, Abandoned

IDENTIFICATION

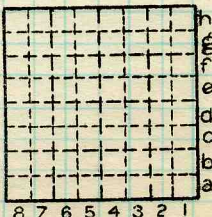
County No. 163

Coal No.

Coal Report No. _____

Quad.

County MONTGOMERY



Sec. 32

T. 9 N.

R. 5 W.

Index No.

COAL MINE—PRODUCTION

ILLINOIS GEOLOGICAL SURVEY, URBANA



(2 Sheets)

COAL PRODUCTION

(Sheet 2)

Period		Tons
Mo. Day Year	Mo. Day Year	
LOCAL	1918	NO PRODUCTION
LITCHFIELD C. & M. Co.	19	NO PRODUCTION
	1920	400
	21	13 500
	22	NOT LISTED
Lowell	23	3 400
	24	11 100
	1925 1st 1/2	3 050
	1925 2nd 1/2	NOT LISTED

SUMMARIES		TOTAL PRODUCTION
No. 1815	to No. 1925	1 079 251 TONS

(SEE ADDITIONAL INFORMATION FILED IN COX #170 MONTGOMERY CTY)

Railroad, Wagon, Strip, Idle, Abandoned

IDENTIFICATION

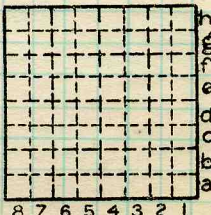
County No. 163

Coal No.

Coal Report No. _____

Quad.

County MONTGOMERY



Sec. 32

T. 9 N.

R. 5 W.

Index No.

COAL MINE—PRODUCTION

ILLINOIS GEOLOGICAL SURVEY, URBANA





LOCATION AND ELEVATION

Location: side R. R.
 side R. R.
 side Highway No.

on top. map Location sheet

Elevation: Method, 1. Est. (TM) _____ ft. 685
 2. Inst. (kind _____) _____ ft.

By _____ Data sheet

DEPTH

Authority To coal _____ ft.
 Authority Rail to rail _____ ft.
 Top of coal above rail. (Est. Rule) _____ ft.
 To coal 469 ft.

ALTITUDE OF TOP OF COAL

By estimated data _____ ft. 221
 By instrumental data _____ ft.

Thickness

Max. in. Min. in. Aver. 55 in.

GEOLOGICAL DATA

Mine notes, date _____

Coop No. Pyr. inv. Coal Ash inv.

CHEMICAL DATA

Analyses Face	U. I.	B. M.	Others <u>83,84, 1842, 1866</u>
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. I.	B. M.	Others

Classification

Misc. tests: Coking. Cleaning Boiler

Published descriptions:—

Railroad, Wagon, Idle, Abandoned 1920

IDENTIFICATION

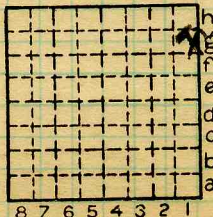
County No. 163

Coal No.

Quad. 201

Part 2

County Montgomery



Sec. 32

T. 9 N. S.

R. 5 W.

Index No.

1032.18

COAL MINE LOCATION AND DATA



Location and Elevation Data

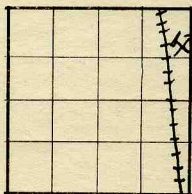
Location: Exact Approximate
(Approximate only if no trace of record of original exists)

Location by... *Mine Notes*
Date..... Notebook No..... Page.....
Looseleaf ref.....
Map files No.....

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 9 N.
R ~~E~~
5 W.

Other description:.....
Farm.....
No.....

Auer #2
MNL

Company *Litchfield C & M Co.*
No.....
County No. *163*.....

Elevation... *685* *683.89* ft.
By... *V.P.W.*

Method: Level, transit, alidade, hand level
Tape

Elevation of.....
Height of point above ground.....
Date..... Notebook..... P.....
Looseleaf ref.....
Map files No.....

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

SHIPPING MINE

County *Montgomery* Quadrangle *201* Index No. *1032.15*

Letter of 3/3/43
by John T. Rutledge of
Maryland Dept. of Biology...
to
J. Norman Payne of
ISGS Coal section
about mines in the
Littlefield area

COPY

State of Maryland
Board of Natural Resources
Department of Geology, Mines and Water Resources

John J. Rutledge
Chief Mine Engineer

State office Building
Annapolis, Maryland

Bureau of Mines
March 3, 1943

Mr. J. Norman Payne
Assistant Geologist Coal Division
State Geological Survey Division
Urbana, Illinois

My dear Mr. Payne:

We have your letter of February 23 asking for information to where you can find a description of the mines and the coals which were mined at Litchfield. You further advise that you are writing a report on the coal resources of the area embracing Litchfield.

One of the earlier Illinois Mining Institute reports contains an article of the Peabody Coal Company of Chicago, and before that, at the time the article was written, he was mine manager of the Girard Coal Company of Girard, Illinois. The University Library will probably have this volume; if not, Mr. F. E. Weissenborn of St. Louis, who is well-known to Dr. Leighton, may have a copy.

Much of the information I had regarding the mines at Litchfield has been lost in various removals that I have made during the last thirty-five years.

Coal mining began in Litchfield on the south side of the Big Four railroad tracks about thirty years before the Civil War. The seam of coal worked was about $3\frac{1}{2}$ ' to 5' thick and lay at a depth of about 500-ft. Three different shafts were sunk during a long period of time. When I first went to Litchfield in 1897 the third shaft was operating, producing coal mostly for local use.

The method of mining was longwall advancing. Mr. David T. Davis was president of the company. Mr. Joseph Richardson was the mine manager. I am not sure that Mr. Davis is still alive. He lived in Litchfield the last I heard of him, and John G. Millhouse, formerly head of the Department of Mines of Illinois, also lives in Litchfield at this present time, and he would be able to put you in touch with Mr. Davis, if he is still alive. It may be that Joseph Richardson is still alive and if so, he could give you valuable information regarding the coal at that point.

An interesting detail of the mining at this so-called South Shaft was that the workings holed into producing oil wells. The wells had been drilled some years previously and it was said that the oil collected on the water in the sump at the shaft bottom and was skimmed off and barrelled and sold in the open market. It was reported that they made more money out of the oil thus disposed of than they made out of the coal.

Mr. J. Norman Payne

At that time there was a railroad car manufacturing concern operating in Litchfield and this railroad car concern used this crude oil in the boxings on the cars which they constructed. I personally used a good many barrels of this while manager of the North Shaft. The oil was heavy black oil, much like the Black Strap oil produced in West Virginia. When we came to the last few remaining gallons of oil in the barrel we would find about a gallon or so of salt water remaining in the bottom of the barrel. This oil horizon, as I recall it, was about 200-ft. below the coal seam.

All of the above information was gained by hearsay as I had no opportunity to enter the workings of this mine. I did see the collars of the wells and the pumps on the surface.

About 1895 a company, composed of Messrs. Weigraff, John Laing, Dr. G. A. Sihler, William Wilton and A. G. Kleinback, formed what was known as the Litchfield Mining and Power Company, and had the Sullivan Diamond Drill Company drill the land north of the City and sunk a shaft, and mined the coal, presumably the same coal that was mined to the south of the Big Four tracks, at a depth of about 540-ft. This coal seam had a hard sand rock roof and was worked longwall for some years. The shaft was then extended to a further depth of 160-ft., making a total depth from the surface about practically 700-ft. This shaft encountered coal about 6-ft. in thickness and was said by men, who should have known, that it was #1 and #2 seams of the old Worthen Survey. I have never had any reason to doubt this correlation. In what follows I am telling you what I know to be the absolute truth regardless of what geologists and others have said regarding the coal seams of Illinois.

The main entries are opened out from East and West. From the bottom of this shaft the Main West Entry encountered erosion faults and no coal was ever mined from that side of the shaft as the fault was never penetrated. This fault extends in the direction of the old Stratton farm, which belonged to the family of S. W. Stratton, a former professor at the University of Illinois, and later Director of the United States Bureau of Standards, and afterwards President of the M. I. T.

The Main East Entry encountered adverse grades but produced coal of good quality, although it became thinner as the Entry proceeded. The First North Entry was driven and advanced probably half a mile when the coal became thin, probably 3-ft. in thickness, under a hard rock roof, and yet the coal was of good quality. The South Entries off the Main East encountered bone coal, besides adverse grades and the coal from that section was never merchantable. The Third and Fourth North off the Main East produced coal of good quality but the seam thinned to the northward. In all my experience I have never encountered a mine which had as many adverse mining conditions as this mine manifested.

In 1898 an escape shaft was sunk about 300-ft. south of the Main Shaft. This escape shaft was 6 x 10-ft. in cross section and was completed in about six months time. I supervised the sinking of this shaft and in this work sixteen (16) separate and distinct coal horizons were encountered, not all of

Mr. J. Norman Payne

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Near Honey Bend on the Wabash Railroad, three or four miles north of this North Shaft, a shaft was sunk and coal was mined there for some years. The late Oscar Cartlidge was in charge of this mine for some time and he must have left some description of the workings in the Mine Inspection Reports or in other Illinois mining literature. His brother Frank is still living, so far as I know, and is in the employ of the Goodman Manufacturing Company in Chicago.

Mr. Frank Grout, now in the University of Minnesota, Dr. H. Foster Bain, and myself sampled the coal in the L. M. & P. Company's mine during the summer of 1906. If I had the maps available, which I have not, I could give you more information and I will be glad to answer any questions that arise.

One thing, I will say and that is, that there is no area in the State of Illinois that would repay geological investigation any better than the Litchfield Quadrangle. Having in mind Dr. Leighton's training in glacialology I would suggest that you carefully examine the knoll on which the Stratton farmhouse is located, and also trace the Girard fault on the ground.

By the way, at the New York meeting of the A.I.M.E. there was a young man in the uniform of a Colonel of the United States Army whose face was familiar but whose name I could not recall. I failed to get an opportunity of speaking to him. I am sure he was one of two men who exhibited the Illinois Geological Survey exhibit at the American Congress. If you can give me his name I will appreciate it.

With best wishes.

Very truly yours,

s/
J. J. Rutledge
Chief Mine Engineer

JJR:JJ

COPY

State of Maryland
Board of Natural Resources
Department of Geology, Mines and Water Resources

John J. Rutledge
Chief Mine Engineer

State office Building
Annapolis, Maryland

Bureau of Mines
March 3, 1943

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