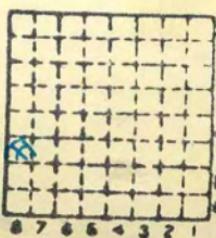




Form 180

Brewerton, CC #81  
mi. # 122



Sec.	1	N.
T.	15	S.
R.	5	W.
Index No.		

Mine originally operated by: (1) O'Gara Coal Co.

Date 1901

Original name or number:

Illinois Coal Report

p. 50

1882-1930

## LATER OPERATORS

Date	Operator	Name or No.
2 1913	Middle States Coal Co.	#26
3 1918	Sangamon Co. Coal Co.	
4 1919	Brewerton Coal Co.	#81
5 1933	Jefferson Coal Mining Co.	#81
6 1935	Mid State Coal Co.	#81
7 1936	Brewerton Coal Co.	#81
8		
9		
10		
11		
12		
13		
14		

Plot Sheet #3

\* Also owners

#See ownership sheet

bd. 1939 Railroad, Wagon, Idle, Abandoned 1939

**SHIPPING MINE**

## IDENTIFICATION

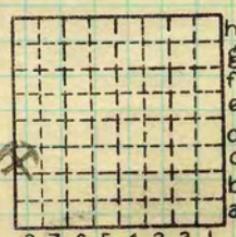
250' x  
5' 9"

County No.

Coal No. 5



Quad. Springfield Part 8



County Sangamon

Sec. 1

15 N.

T. 8 S.

R. 5 W.

Index No.

1501 c8

COAL MINE OPERATOR

(3106-21531) 3

( Sheets )

## COAL PRODUCTION

(Sheet )

No.	Period			Tons		
	Mo.	Day	Year	Mo.	Day	Year
				1935		
9	1	1	1937	12	31	1937
S-9	1	1	1938	12	31	1938
	1939			20829	111	789
						0

#3

✓

## SUMMARIES

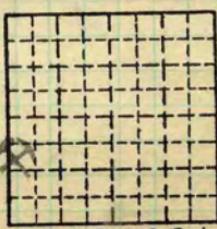
No.	to	No.			
1901		1930		3	713
					573

Railroad, Wagon, Idle, Abandoned  
IDENTIFICATION

County No. ~~X~~ Coal No.

Quad. Part

County Sangamon



Sec. 1	15
T.	S.
R.	E. 5 W.
Index No. 1501 c8	

## COAL MINE—PRODUCTION

(34217-1M-3-30) 7

## LOCATION AND ELEVATION

Location:

side

R. R.

side

R. R.

side Highway No.

on top. map

Location sheet

Elevation: Method, 1. Est. ( ) ft.

2. Inst. (kind) ft.

By	DEPTH	Data sheet
Authority	To coal	ft.
Authority	Rail to rail	ft.
	Top of coal above rail. (Est. Rule)	ft.
	To coal	ft.
ALTITUDE OF TOP OF COAL		
By estimated data		
By instrumental data		ft.
Thickness		
Max.	in. Min.	Aver. in.

## GEOLOGICAL DATA

Mine notes, date 1921

Coop No. Pyr. inv. Coal Ash inv.

## CHEMICAL DATA

Analyses Face	U. I.	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. I.	B. M.	Others

Classification

Misc. tests: Coking. Cleaning Boiler

Published descriptions:—

M. I. #122 B.62

Railroad, Wagon, Idle, Abandoned

## IDENTIFICATION

County No.

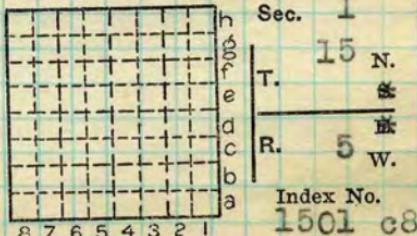
Coal No. 5



Quad. Springfield

Part 8

County Sangamon



## COAL MINE LOCATION AND DATA

Town, Springfield  
Local Authority,

Level: Auth.,  
Mical Frank, Bratticeman

Method, Topog. map.

R. R.,

B&O, I.T.S.

Location: authority,

Mine Map

Operator

Surface alt.,	580	ft.
Depth to coal,	235	ft.
Alt. top coal,	345	ft.
Thickness: Av.	66	in.
Max. 72 in., Min. 60		in.

= R. 5 W

T.			
15			
N			

Sec.

(Show R. R.)

Mine Name or No.

1921 Sangamon County Mining Co

Sangamon County  
(Jefferson)

Successor to

Date

Succeeded by Brewerton Coal Co

No. 8.1

Date 1925 620 - 230 S Clark St.  
Chicago, Ill.

Succeeded by

Date

✓

PRODUCTION.

U. S. No.

1921 1200 Tons

1927 126 563

1928

Miller Bros.

Engrs.

111e  
1136

1930 #21

Geol. Notes? Yes Coop. No.

Coal secs? 3

Analyses No.

81440-1-2-3 21

Examined by Netzeband & Thurston

Ref.

Coal bed name: Local SHIPPING MINE

Survey No.

County Sangamon

Index No. 1501.02

K.—ACTIVE SHIPPING OR LOCAL COAL MINE. Duplicate

(9019-1M-7-18)

## Location and Elevation Data

Location:

Exact

Approximate

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

Location by W. O. RoeDate 4-22-31 Notebook No. 602 Page 5-22

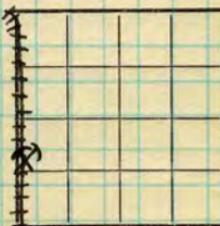
Looseleaf ref.

Map files No. 12-83-13c

## Description of location

Position in sec.,  $\frac{1}{4}$  sec., 40 acres

feet from North line



Sec. 1

T. 15 N.  
S.  
R. 5 W.

1650 feet from South line

feet from West line

Farm

No.

Company

Brewerton Coal Co.

No.

County No. ~~X~~

81

✓

Elevation 591.4 ft.By W. O. Roe

Method: Level, transit, alidade, hand level

Alidade  
Rail at shaft.

Elevation of

Height of point above ground

Date 4-22-31 Notebook 602 P. 5-22

Looseleaf ref.

Map files No. 12-83-13c

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

Mine shaft.242 to R-R. DeWolf reports 246' SHIPPING MINE

County

Quadrangle

Index No.

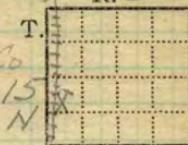
SaugertiesSpringfield1501C8

Mine Name or No., Sangamon County (Jefferson) R. 5W

$2\frac{1}{2}$  mile S.E. from Springfield

Operator, 191 Sangamon County Mining Co.

Operator, 191



Sec. 1

Entrance, shaft Elev., 580 ft. above, sea level I.T.S.

Depth to bottom coal, 235 ft. Alt. 345

SURFACE DATA.

- A. Topography, Flat See  
B. Surficial materials. (1) Character, Tilt

(2) Thickness, No information (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc. No information.

- 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. 5

Collector, Netzeband

Mine, Sangamon County Co. Sangamon Index No. 1501-02

L.—SURFACE SHEET (Geol.)

F. Thickness of rock above bed worked, *1/2o information*

(1) Important variations,

See

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

*Black shale requires timbering.* See

(1) Position, *Between lls & coal*

(2) Character, *Massive dark grey to black shale*

(3) Persistence, *Thruout mine.*

(4) Other workable coal beds, *None reported.*

See

H. Cap rock, *Limestone*

(1) Thickness, *6"-36"*

(2) Height above coal, *8"-36"*

See *X1*

I. Immediate roof, *Black shale*

(1) Thickness, *8"-3½'* (2) Contact with coal,

(3) Horizontal variation,

See *X1*

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

*None.*

(3) Persistence,

K. Coal bed: Max. *72* Min. *60* Av. *66* inches

(1) Benches,

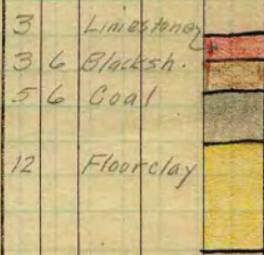
*None.*

(a) Position,

(b) Persistence,

See

(2) Bedded impurities, kind, position in benches, persistence, ease of separation. *Charcoal lenses*



See

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

See

(a) Effect on mining,

*Explosive to cut thru especially if hard.*

See

10 ft = 4'

Collector, *Netzab band*

Coal: Survey No. *5*

Mine, *Sangamon County*

Index No. *1501-02*

M.—UNDERGROUND SHEET (Geol.)

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

(a) Relative hardness, Coal is fairly soft

(b) Lustre,

(c) Fracture,

(d) Texture, Laminated

See

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

(a) Kind, Pyrite lenses &amp; bands.

(b) Position and persistence, Upper part of coal throughout  
mine. Pyrite in patches, some coal entirely free.

(c) Rejected, Large bands &amp; lenses Ease of separation, Break free

See

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

5' below

(2) Thickness, 12' Min or max unk known.

(3) Variation,

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

Heaves 4-5" but no serious squeezes.

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, Netzeband

Coal: Survey No. 5 

Mine, Sangamon County Co. Sangamon Index No. 1501-02

N.—UNDERGROUND SHEET (Geol.)



INDEX

I<sub>3</sub>

The roof is usually black shale (the miners call it "slate").

This shale is massive, black to dark gray and similar in character to the shale over vein #6. It contains nodules, limy and very hard. This rests upon the coal with a fairly regular contact. This "slate" makes heavy timbering necessary, and in the case of slips the "slate" will fall even when libered. This "slate" is from 8" to 3½" in thickness, wherever it is less than 18" it is taken down.

H

Above this shale is very hard limestone, with an extremely uneven lower contact, projections of which protrude below ~~the~~ or through the "slate" into the coal.

According to a timberman this ls. is from 6" to 4' in thickness. This makes an excellent roof. The ls. sometimes extends into the coal in long rolls and sometimes in inverted conical projections. These were probably deposited in depressions on an eroded surface.

Collector

Thurstan

Index No. 1501.02

X-

EXTRA NO. /

County Sangamon

Operator, Sangamon County Mining Co Date Sept. 7, 1921  
 Mine, Sec. 1 T. 15 N R. 5 W  
 Location in mine, Room 14L, 19<sup>th</sup> W off Main St.

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)	
In.	No.	No.	(Note character and thickness of roof) Inches
		Black shale	
	1 Coal		1 3
	2 Charcoal		4
	3 Coal		10
	4 Pyrite lens		4
	5 Coal		17
	6 pyrite lens		3
	7 Coal		28 3/4
Tape 71			
(Note character and thickness of floor)			
Total thickness of coal.			
70 3/4			
Condition, Dry, fresh Time, 3 hr. 26 min. 12 3/8			
Wt. Gross, 26 lbs. Net, lbs. 9 1/2			
What Nos. shipped by Co.?			
Excluded from sample: No. None.			
Sample represents 70 3/4 in. tons.			
Impurities? How do they occur?			
(1 division = 3 in.)			

Sample No. A-21-145 Can No. 02538 Lab. No. 81440  
 Collector, *A. D. Johnson* Coal: Survey No. *J*   
 Mine, *Sangamon County* Co. *Sangamon* Index No. *1501.02*

R.—COAL SAMPLE SHEET.

Operator, Sangamon County Mining Co. Date Sept. 7 1921  
 Mine, Sangamon County Sec. 1 T. 10 N R. 5 W  
 Location in mine, Face of Main S.

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)	
In.	No.	No.	(Note character and thickness of roof)
		1	Black shale.
		1 Coal	14
		2 Charcoal lens	1/8
		3 Coal	6
		4 Pyrite + clay	1/2
		5 Coal	40
		6 Coal	
		7 Coal	
		8 Coal	
		9 Coal	
		10 Coal	
		11 Coal	
		12 Coal	
		13 Coal	
		14 Coal	
		15 Coal	
		16 Coal	
		17 Coal	
		18 Coal	
		19 Coal	
		20 Coal	
		21 Coal	
		22 Coal	
		23 Coal	
		24 Coal	
		25 Coal	
		26 Coal	
		27 Coal	
		28 Coal	
		29 Coal	
		30 Coal	
		31 Coal	
		32 Coal	
		33 Coal	
		34 Coal	
		35 Coal	
		36 Coal	
		37 Coal	
		38 Coal	
		39 Coal	
		40 Coal	
		41 Coal	
		42 Coal	
		43 Coal	
		44 Coal	
		45 Coal	
		46 Coal	
		47 Coal	
		48 Coal	
		49 Coal	
		50 Coal	
		51 Coal	
		52 Coal	
		53 Coal	
		54 Coal	
		55 Coal	
		56 Coal	
		57 Coal	
		58 Coal	
		59 Coal	
		60 Coal	
		61 Coal	
		62 Coal	
		63 Coal	
		64 Coal	
		65 Coal	
		66 Coal	
		67 Coal	
		68 Coal	
		69 Coal	
		70 Coal	
		71 Coal	
		72 Coal	
		73 Coal	
		74 Coal	
		75 Coal	
		76 Coal	
		77 Coal	
		78 Coal	
		79 Coal	
		80 Coal	
		81 Coal	
		82 Coal	
		83 Coal	
		84 Coal	
		85 Coal	
		86 Coal	
		87 Coal	
		88 Coal	
		89 Coal	
		90 Coal	
		91 Coal	
		92 Coal	
		93 Coal	
		94 Coal	
		95 Coal	
		96 Coal	
		97 Coal	
		98 Coal	
		99 Coal	
		100 Coal	
		101 Coal	
		102 Coal	
		103 Coal	
		104 Coal	
		105 Coal	
		106 Coal	
		107 Coal	
		108 Coal	
		109 Coal	
		110 Coal	
		111 Coal	
		112 Coal	
		113 Coal	
		114 Coal	
		115 Coal	
		116 Coal	
		117 Coal	
		118 Coal	
		119 Coal	
		120 Coal	
		121 Coal	
		122 Coal	
		123 Coal	
		124 Coal	
		125 Coal	
		126 Coal	
		127 Coal	
		128 Coal	
		129 Coal	
		130 Coal	
		131 Coal	
		132 Coal	
		133 Coal	
		134 Coal	
		135 Coal	
		136 Coal	
		137 Coal	
		138 Coal	
		139 Coal	
		140 Coal	
		141 Coal	
		142 Coal	
		143 Coal	
		144 Coal	
		145 Coal	
		146 Coal	
		147 Coal	
		148 Coal	
		149 Coal	
		150 Coal	
		151 Coal	
		152 Coal	
		153 Coal	
		154 Coal	
		155 Coal	
		156 Coal	
		157 Coal	
		158 Coal	
		159 Coal	
		160 Coal	
		161 Coal	
		162 Coal	
		163 Coal	
		164 Coal	
		165 Coal	
		166 Coal	
		167 Coal	
		168 Coal	
		169 Coal	
		170 Coal	
		171 Coal	
		172 Coal	
		173 Coal	
		174 Coal	
		175 Coal	
		176 Coal	
		177 Coal	
		178 Coal	
		179 Coal	
		180 Coal	
		181 Coal	
		182 Coal	
		183 Coal	
		184 Coal	
		185 Coal	
		186 Coal	
		187 Coal	
		188 Coal	
		189 Coal	
		190 Coal	
		191 Coal	
		192 Coal	
		193 Coal	
		194 Coal	
		195 Coal	
		196 Coal	
		197 Coal	
		198 Coal	
		199 Coal	
		200 Coal	
		201 Coal	
		202 Coal	
		203 Coal	
		204 Coal	
		205 Coal	
		206 Coal	
		207 Coal	
		208 Coal	
		209 Coal	
		210 Coal	
		211 Coal	
		212 Coal	
		213 Coal	
		214 Coal	
		215 Coal	
		216 Coal	
		217 Coal	
		218 Coal	
		219 Coal	
		220 Coal	
		221 Coal	
		222 Coal	
		223 Coal	
		224 Coal	
		225 Coal	
		226 Coal	
		227 Coal	
		228 Coal	
		229 Coal	
		230 Coal	
		231 Coal	
		232 Coal	
		233 Coal	
		234 Coal	
		235 Coal	
		236 Coal	
		237 Coal	
		238 Coal	
		239 Coal	
		240 Coal	
		241 Coal	
		242 Coal	
		243 Coal	
		244 Coal	
		245 Coal	
		246 Coal	
		247 Coal	
		248 Coal	
		249 Coal	
		250 Coal	
		251 Coal	
		252 Coal	
		253 Coal	
		254 Coal	
		255 Coal	
		256 Coal	
		257 Coal	
		258 Coal	
		259 Coal	
		260 Coal	
		261 Coal	
		262 Coal	
		263 Coal	
		264 Coal	
		265 Coal	
		266 Coal	
		267 Coal	
		268 Coal	
		269 Coal	
		270 Coal	
		271 Coal	
		272 Coal	
		273 Coal	
		274 Coal	
		275 Coal	
		276 Coal	
		277 Coal	
		278 Coal	
		279 Coal	
		280 Coal	
		281 Coal	
		282 Coal	
		283 Coal	
		284 Coal	
		285 Coal	
		286 Coal	
		287 Coal	
		288 Coal	
		289 Coal	
		290 Coal	
		291 Coal	
		292 Coal	
		293 Coal	
		294 Coal	
		295 Coal	
		296 Coal	
		297 Coal	
		298 Coal	
		299 Coal	
		300 Coal	
		301 Coal	
		302 Coal	
		303 Coal	
		304 Coal	
		305 Coal	
		306 Coal	
		307 Coal	
		308 Coal	
		309 Coal	
		310 Coal	
		311 Coal	
		312 Coal	
		313 Coal	
		314 Coal	
		315 Coal	
		316 Coal	
		317 Coal	
		318 Coal	
		319 Coal	
		320 Coal	
		321 Coal	
		322 Coal	
		323 Coal	
		324 Coal	
		325 Coal	
		326 Coal	
		327 Coal	
		328 Coal	
		329 Coal	
		330 Coal	
		331 Coal	
		332 Coal	
		333 Coal	
		334 Coal	
		335 Coal	
		336 Coal	
		337 Coal	
		338 Coal	
		339 Coal	
		340 Coal	
		341 Coal	
		342 Coal	
		343 Coal	
		344 Coal	
		345 Coal	
		346 Coal	
		347 Coal	
		348 Coal	
		349 Coal	
		350 Coal	
		351 Coal	
		352 Coal	
		353 Coal	
		354 Coal	
		355 Coal	
		356 Coal	
		357 Coal	
		358 Coal	
		359 Coal	
		360 Coal	
		361 Coal	
		362 Coal	
		363 Coal	
		364 Coal	
		365 Coal	
		366 Coal	
		367 Coal	
		368 Coal	
		369 Coal	
		370 Coal	
		371 Coal	
		372 Coal	
		373 Coal	
		374 Coal	
		375 Coal	
		376 Coal	
		377 Coal	
		378 Coal	
		379 Coal	
		380 Coal	
		381 Coal	
		382 Coal	
		383 Coal	
		384 Coal	
		385 Coal	
		386 Coal	
		387 Coal	
		388 Coal	
		389 Coal	
		390 Coal	
		391 Coal	
		392 Coal	
		393 Coal	
		394 Coal	
		395 Coal	
		396 Coal	
		397 Coal	
		398 Coal	
		399 Coal	
		400 Coal	
		401 Coal	
		402 Coal	
		403 Coal	
		404 Coal	
		405 Coal	
		406 Coal	
		407 Coal	
		408 Coal	
		409 Coal	
		410 Coal	
		411 Coal	
		412 Coal	
		413 Coal	
		414 Coal	
		415 Coal	
		416 Coal	
		417 Coal	
		418 Coal	
		419 Coal	
		420 Coal	
		421 Coal	
		422 Coal	
		423 Coal	
		424 Coal	
		425 Coal	
		426 Coal	
		427 Coal	
		428 Coal	
		429 Coal	
		430 Coal	
		431 Coal	
		432 Coal	
		433 Coal	
		434 Coal	
		435 Coal	
		436 Coal	
		437 Coal	
		438 Coal	
		439 Coal	
		440 Coal	
		441 Coal	
		442 Coal	
		443 Coal	
		444 Coal	
		445 Coal	
		446 Coal	
		447 Coal	
		448 Coal	
		449 Coal	
		450 Coal	
		451 Coal	
		452 Coal	
		453 Coal	
		454 Coal	
		455 Coal	
		456 Coal	
		457 Coal	
		458 Coal	
		459 Coal	
		460 Coal	
		461 Coal	
		462 Coal	
		463 Coal	
		464 Coal	
		465 Coal	
		466 Coal	
		467 Coal	
		468 Coal	
		469 Coal	
		470 Coal	
		471 Coal	
		472 Coal	
		473 Coal	
		474 Coal	
		475 Coal	
		476 Coal	
		477 Coal	
		478 Coal	

Operator, Sangamon County Mining Co. Date Sept 7, 1921  
 Mine, Sangamon County Sec. 1 T. 15N R. 5W  
 Location in mine, Face of 25<sup>th</sup> F. off Main S.

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)	
In.	No.	No.	(Note character and thickness of roof) Inches
		1	Black shale
		2 Coal	4 $\frac{1}{4}$
		3 Charcoal lens	3 $\frac{3}{4}$
		4 Coal	1 1/2
		5 Pyrite and clay	1/4
		6 Coal	7 $\frac{3}{4}$
		7 Charcoal lens	1/4
		8 Coal	18
		9 Charcoal lens	1/4
		10 Coal	11 $\frac{3}{4}$
		11 Shale lens	1/4
		12 Coal	13 $\frac{1}{2}$
		Tape 68 $\frac{1}{2}$	
		(Note character and thickness of floor)	
		Total thickness of coal.	
		Condition, Damp	Time, 2 hr. 50 min.
		Wt. Gross, 29 lbs.	Net, 4 lbs.
		What Nos. shipped by Co.?	
		Excluded from sample: No. None	
		Sample represents 68 in. tons.	
		Impurities? How do they occur?	
(1 division=3 in.)			

Sample No. A-21-117 Can No. 05606 Lab. No. 81442  
 Collector, Netzeband Coal: Survey No. 5  
 Mine, Sangamon County Co. Sangamon Index No. 1501.02

R.—COAL SAMPLE SHEET.

## ILLINOIS COAL MINE NOTES

1401

TOWN Springfield

T. 15 N R. 5 W S. 1. NW 1/4 SW 1/4 Sangamon CO.

COAL BED 5

DATE

COLLECTOR

OPERATOR O'Kane Coal Co.,

MINE Jefferson

HEAD OFFICE

CAPACITY

MARKETS, FRT.

ENTRANCE Shaft 24 ft

CAGE

ENGINES

SCREENS

DRUM

VENTILATION

STORAGE

GAS, SOURCE

COAL THICKNESS, AV 69 MAX. MIN. ELE.

FT.

## SECTION LOCATED

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

NOT SHIPPED

NOT INCLUDED

CAN

SAMPLE

## PHYSICAL PROPERTIES BY NOS.

ROOF

FLOOR

DIP

CLEAT

FAULTS, ETC.

MACHINES

HAULAGE

CARS

DRAINAGE

WORKING SYSTEM

ENTRIES, MAIN

CROSS

ROOMS

PILLARS, MAIN

CROSS

ROOM

DRAWN

TIMBERS

Note also: Variation in coal, impurities, roof, structure.

Collect records, analyses, fossils. Note land values, etc.

1501

Correspondence

Aug 19-08

Sangamon 4

Q Gara Coal Co. Jefferson Mine ~~220 ft~~

Located SW  $\frac{1}{4}$  S1; T15; R5.

Shaft 246' to floor. Alt top 582.

Old shaft about 7' x 10'.

Cage hand made.

Engines old; local make; second action  
on 6 $\frac{1}{2}$ ' wooden drum.

Coal 3 $\frac{1}{2}$ ' to 6 $\frac{1}{2}$ ' +; Av 6 ft. No bands.

### Section:

1	Shale - lt gr, soft,	5' +
2	ls - hd, impure,	0" - 4"
3	Shale, dk. Grb. with 1/4" lt gr bands & flat lenses -	6" - 4' +
4	ls - very fernaceous & fossilif.	0 - 8" +
5	Coal	3 1/2 - 6 1/2'
6	f. c.	2' +

2. dk gr, slightly fossil. rather  
compact, hard. No fusilina.

4. Coal plate some 12" tk x 8' x 6'.  
Balls up to size of tubs common.  
Looks like "Cloud" of W. Kentucky #9.

Mine very weak. alt clay veins  
which are every where. Majority  
N.E x S.W. or N.W x S.E. Locally all  
directions intersecting. Some 2' +  
where coming thru sap rock &  
swelling a little in coal. Cut thru  
floor also. Drag all downward.  
Usually one side is faulted down  
1 foot + & snagged at top. Frag of  
roof slate dragged down & embedded  
in clay. Roof needs props every 4' +  
cuts easily. Can't be held near  
veins. Small ribs left. Some  
squeeze.

Capacity 400-500 T. Mules.

~~220 ft~~

1501

Q Gara (cont'd).

Mined by shooting off solid. Rooms  
24' wide  $\times$  200'; wooden rails in",  
laid by men. Very break throughs.

Dip SW  $\pm$ , E cut. Miles haul, 15 miles  
 $\frac{1}{2}$  mile to shaft. Cleat approx  
 $N 35^{\circ} E$ ; & butts at rt  $45^{\circ}$ . Fairly  
well developed. Disregarded in  
mining.

Coal laminated, bright & satiny  
layers -  $\frac{1}{16}$ " tk  $\frac{1}{4}$ ". Looks like  
Thayer seam except lack of  
bands & presence of clay veins

Clay veins look like squeeze of  
shale from above. Coal rock thru  
small joints or fissures in cap  
rock. Shattered aspect of latter  
locally suggests tectonic  
origin rather than solution  
cavities. Clay squeezed by  
pressure when plastic.

Operator, Jefferson Coal Mining Co.

Date July 14, 1933

Mine, Brewerton #81

Sec. 1 T. 15 N. R. 5 W

Location in mine, Face of 9th N entry off 4th E entry  
2600' E and 1100' N of shaft

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)	
In.	No.	No. (Note character and thickness of roof)	Inches
		Roof: Black shale, hard - with large, dark, calcareous concretions	
	1. Coal		17 $\frac{1}{16}$
	2. Fusain, soft		5 $\frac{5}{16}$
	3. Coal		14 $\frac{9}{16}$
	4. Pyrite, bright, along bedding		1 $\frac{1}{16}$
	5. Coal		30 $\frac{7}{8}$
		Floor: Underclay, dark gray, soft, heaves some, surface irregular	
		(Note character and thickness of floor)	
		Total thickness of coal.	63 $\frac{1}{2}$

Condition, Dry Time, hr. 50 min.

Wt. Gross, 75 lbs. Net, lbs.

What Nos. shipped ~~in~~? 1, 2, 3, 5

Excluded from sample: No. 4

Sample represents 63  $\frac{1}{16}$  in. tons.

Impurities? How do they occur? Pyrite stringers, lenses, facings, veinlets, bedding plane bands

(1 division=3 in.)

Channel IGS 414 U.S.B.M. channel - T499

Sample No. Can Survey Can No. A.W. top (top) + X80 (bottom) Lab. No.

Collector, L.C. McCabe, E.T. Benson &amp; J.W. Robinson

Coal: Survey No. 5

Mine, Brewerton #81 Co. Sangamon

Index No.

R.—COAL SAMPLE SHEET.

1501

(12759-1000-2-29) 

Operator, Jefferson Coal Mining Co. Date July 14, 1933  
 Mine, Brewerton #81 Sec. 1 T. 15 N R. 5 W  
 Location in mine, Face of New room off 8th E off 9th N entry  
 2650' E, app. 800' N of shaft

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)	
In.	No.	No. (Note character and thickness of roof)	Inches
		Roof: Black shale, hard	
	1.	1. Coal	14 $\frac{2}{3}$ $\frac{1}{32}$
	2.	2. Fusain parting, soft	$\frac{3}{32}$
	3.	3. Coal	9 $\frac{5}{32}$
	4.	4. Pyrite parting	$\frac{1}{16}$
	5.	5. Coal	36 $\frac{1}{2}$ $\frac{1}{32}$
		Floor: Underclay, dark gray, soft	
		(Note character and thickness of floor)	
		Total thickness of coal.	60
(1 division=3 in.)		Condition, Dry	Time, 1 hr. min.
		Wt. Gross, 75 lbs.	Net, lbs.
		What Nos. shipped <del>1, 2, 3, 5</del>	1, 2, 3, 5
		Excluded from sample: No. 4	
		Sample represents 59 $\frac{1}{16}$ in.	tons.
		Impurities? How do they occur? Pyrite plates, partings and facings	
Sample No. U.S.B.M. Acc.W. V 362 (top) Channel: K 349 Can No. B 193 (bottom)		Lab. No.	
Collector, H.C. McCabe, E.T. Benson, & J.W. Robinson Mine, Brewerton No. 81 Co. Sangamon		Coal: Survey No. 5 Index No. 1501	<input type="checkbox"/>
R.—COAL SAMPLE SHEET.			
(12759—1000—2-29) 			

Operator, Jefferson Coal Mining Co.  
Mine, Brewerton #81

Date July 14, 1933

Sec. 1 T. 15 N R. 5 W

Location in mine, Face of S sideroom off Room 5, 7th W off 9th N  
2400' E and 500' N of shaft.

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)	
In.	No.	No. (Note character and thickness of roof)	Inches
		Roof: Black Shale, hard	
	1.	Coal	22 $\frac{1}{32}$
	2.	Pyrite plate	$\frac{1}{32}$
	3.	Coal	$\frac{2}{32}$
	4.	Pyrite parting	$\frac{3}{32}$
	5.	Coal	36 $\frac{1}{4}$
		Floor; Underclay, blue, soft	
		(Note character and thickness of floor)	
		Total thickness of coal.	60 $\frac{1}{4}$

Condition, Dry Time, hr. 45 min.

Wt. Gross, 75 lbs. Net, lbs.

What Nos. shipped by Co.? 1, 3, 5

Excluded from sample: No. 2, 4

Sample represents  $60 \frac{1}{8}$  in. tons.

Impurities? How do they occur? Pyrite lenses, plates, partings, and facings

(1 division=3 in.)

Sample No.	U.S. B.M	A.W.	V 813 (top)	Lab. No.
Channel - 138		X 1 (bottom)		

Collector, L.C. McCabe, E.T. Benson, & J.W. Robinson Coal: Survey No. 5

Mine, Brewerton #81 Co. Sangamon Index No. 1501

R.—COAL SAMPLE SHEET.