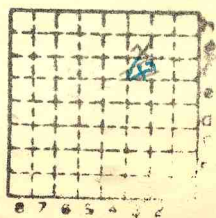


Sahawa
~~Q Gas~~ #1.

mi. # 127,425

574.



Sec. 2
 T. 9 S.
 R. 6 E.
 Index No.

J

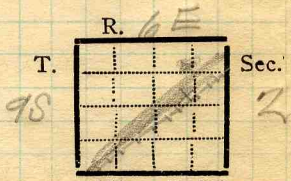


Town, *Harrisburg Co.*
 Local Authority,
J.B. Cain, Mine Mgr.
 Level: Auth., *Mr. Walters Engr*

Surface alt., *369.6* ft.
 Depth to coal, *371.0* ft.
 Alt. top coal, *58.6* ft.
 Thickness: Av. *62* in.
 Max. *78* in., Min. *54* in.

Method, *Engineers notes*

R. R., *Big Four.*



Location: authority, *Mine Map.*

(Show R. R.)

Operator

Mine Name or No.

19 *21* *O'Gara Coal Co.* # *1*

Successor to
 Date
 Succeeded by
 Date
 Succeeded by
 Date

abd 1940

PRODUCTION.

							U. S. No.
19 <i>21</i>	<i>2200 tons per day</i>						
						<i>#574</i>	

Geol. Notes? *Yes* Coop. No. Coal secs? *3*
 Analyses No.

Examined by *Wilson* Ref.

Coal bed name: Local **SHIPPING MINE** Survey No. *5 68*
 County *Saline* Index No. *0802.65*

K.—ACTIVE SHIPPING OR LOCAL COAL MINE.

Town, **Harrisburg**
Local Authority,
Level: Auth., **DeW. Field map**
Method,

Surface alt., **367** ft.
Depth to coal, **296** ft.
Alt. top coal, **71** ft.
Thickness: Av. in.
Max. in., Min. in.

R. R., **Big 4 CCC + St. S.**

1150' from Mine
1610' E
Twp. **Harrisburg**
R. **6** E
T. **9** S



Sec. **2**

Location: authority, **DeW. O'Gara map**

(Show R. R.)

Operator

Mine Name or No.

1904 Diamond Coal Co

1906 **O'Gara Coal Co**

No. **1**

322 So Michigan Ave, Chicago

Successor to

Date

Succeeded by

Date

Succeeded by

Date

PRODUCTION.

	Fiscal		U. S. No.
1915		298 154	
	361 202		
1928			
1931	542 239		
1932	356 854		
			1936 #11

Geol. Notes? **Yes** Coop. No. **127**

Coal secs.? **No.**

Analyses No. **12901-2-3**

10 + 4

COUNTY

Examined by

Ref.

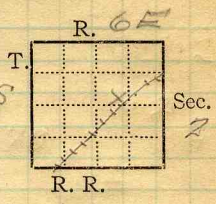
Coal bed name: Local
County **Saline**

Survey No. **5**
Index No. **0802.68**

K.—ACTIVE SHIPPING OR LOCAL COAL MINE.

X

Mine Name or No., #1
 mile from
 Operator, 1911 O'Gara Coal Co. 95
 Operator, 191



Entrance, Shaft Elev., 369.6 ft. above, sea level
 below,
 Depth to bottom coal, 311 ft. Alt. 58.6

SURFACE DATA.

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

- #574
 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 "Dutch" Walters, Chief Engineer in Main Offices of Co. in Harrisburg, for Elev. & Log.

See drill record sheet,

- E. Notes on surrounding area,

See

Coal bed name: Local, Survey No. 5

Collector, Wilson
 Mine, O'Gara #1 Co. Saline Index No. 0802.65

F. Thickness of rock above bed worked,

- (1) Important variations,

See

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

Gray shale overlying draw slate. See X 1

- (1) Position, *Over draw slate*
 (2) Character, *Massive, makes good roof.*
 (3) Persistence, *Thruout mine.*
 (4) Other workable coal beds, *#6 above this bed.*

See

H. Cap rock, *Not seen in mine.*

- (1) Thickness,
 (2) Height above coal,

See

I. Immediate roof, *Black Draw Slate*

- (1) Thickness, *1" - 18"* (2) Contact with coal, *Tight, regular.*
 (3) Horizontal variation,

See

J. Draw slate. (1) Thickness, *18"* (2) Contacts

Contact tight at coal; loose at shale above.
 (3) Persistence, *thruout mine.*

K. Coal bed: Max. *78* Min. *54* Av. *62* inches

- (1) Benches, *None, Coal in one solid seam.*
 (a) Position,

- (b) Persistence,

See

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

Small layers of charcoal.

SECTION		Ft.	in.	Name	Sym.
?				Graysh.	
1	6			Black sh.	
5	2			Coal	
?				Floorday	

See

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

Faults

- (a) Effect on mining,

See X 2

1 Div = 4'

See

Collector, *Wilson*
 Mine, *O'Gara #1 Co. Saline*
 M.—UNDERGROUND SHEET (Geol.)

Coal: Survey No. *5*
 Index No. *0802.65*

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

(a) Relative hardness, *Extreme top & bottom harder than rest of seam.*(b) Lustre, *Bright*(c) Fracture, *Cleat*(d) Texture, *Laminated* See *X 1*

(6) Impurities in coal, other than bedded,

(a) Kind, *FeS₂, CaCO₃ stringers & lenses*

(b) Position and persistence,

In middle of seam.

(c) Rejected, Ease of separation,

See

L. Floor: (1) Material, *Hard clay or shale containing hard*(2) Thickness, *? nodules of lime.*

(3) Variation,

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

This floor clay heaves when wet and has caused bad squeezes in the mine. It seems to grade into a lime rock.

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, *Wilson*Mine, *O'Gara #1* Co. *Saline*Coal: Survey No. Index No. *0802'65*

Mine Mgr. reports that this coal is used for "seed" in order to sell other coal of the district. It is of high quality and is never sold in this locality but is shipped out and used to advertise the other coal of the district.

Y50
 Cretn. : Ht face of 9th S off 7th W.N.
 Face is N55°E; Butt is N20°W (unimproved)
 Ht face of 10th E off 5th N. off 7th W.N.
 Face is N31°E; Butt E (poorly developed)
 Ht face of 1st S off Main E. S.
 Face N31°E; Butt very poorly developed.

G. The shale which overlies #5 here, unlike the "white top" overlying #6 to the west, makes a good roof. It is massive and hard; some of it has a very almost like lime. Very little timbering is necessary in this mine.



K₃

Fault in 4th W. off Main N.
Trends N 30 W and Dips 67° to the E.
Another plane of this fault 50' to the E.
trends about the same but dips 62° to the
W.

The W. side is the upthrown side;
the fault makes 28' of displacement.
On the W. side the bottom of the coal
is seen as the roof. Below it is the
"floor clay", a very hard shale which
grades into a massive soft lime, about
10' of which is exposed. On the E.
side about 10' of the "roof shale", a
massive gray shale, is exposed.

In old workings 150 (approx) S. of
this location a very good view of fault
is obtained. Here it dips 50° to the
E. and trends N 30° W. The shale
on the E. the downthrown side, is
well fractured within about 3' of
the coal. Many slickensides are found
here. The coal, however is very little
fractured except for a zone about
6" wide at the fault, which is largely
coal gauge. The coal displays no drag
on the downthrown side the coal cannot
be seen at the fault because of
talus.

The downthrown side of the coal is
seen in old workings near by. The
coal displays very little drag but the
shale over it shows some.

This fault is the west fault on the
blue print.

K₃ In Main E of the Main S feet
from bottom is a fault similar to the
one described in X₂. It trends
roughly N-S, and dips to the W.
this is the East fault.

Collector *Wilson*

X- 3

EXTRA NO. 3

Index No.

0802.65

County

Saline

Operator, *O'Gara Coal Co* Date *July 8, 1921*
 Mine, *No. 1* Sec. *2* T. *95* R. *6E*
 Located, *3 E* miles from *Harrisburg*
 Location in mine, *Face 9th S off 7th W. N.*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
0			<i>Black shale</i>	
<i>22 3/4</i>	<i>1</i>	<i>1</i>	<i>Coal with pyrite stringers</i>	<i>22 3/4</i>
		<i>2</i>	<i>Charcoal</i>	<i>1/4</i>
		<i>3</i>	<i>Coal</i>	<i>11 1/2</i>
<i>1/4</i>	<i>2</i>	<i>4</i>	<i>Charcoal</i>	<i>1/4</i>
		<i>5</i>	<i>Coal</i>	<i>3</i>
<i>11 1/2</i>	<i>3</i>	<i>6</i>	<i>Charcoal</i>	<i>1/4</i>
<i>1/4</i>	<i>4</i>	<i>7</i>	<i>Coal</i>	<i>10 1/4</i>
<i>3</i>	<i>5</i>	<i>8</i>	<i>Clay mixture</i>	<i>3/4</i>
<i>1/4 1/2</i>	<i>6</i>	<i>9</i>	<i>Coal</i>	<i>13</i>
<i>10 1/4</i>	<i>7</i>			<i>62-62 1/2</i>
<i>3/4</i>	<i>8</i>		<i>Tape 6 1/2</i>	
<i>13</i>	<i>9</i>			
			<i>Floor clay</i>	
			(Note character and thickness of floor)	
			Total thickness of coal.	

Condition, *As mined* Time, hr. min.
 Wt. Gross, *20* lbs. Net, lbs.
 What Nos. shipped by Co.?

Excluded from sample: No. *3*
 Sample represents *60 3/4* in. tons.
 Impurities? How do they occur?

Sample No. _____ Can No. *N-21-77* Lab. No. *12901*

Collector, *Netzeband* Coal: Survey No. *5*
 Mine, *O'Gara #1* Co. *Saline* Index No. *0802-65*

Operator, *O'Gara Coal Co* Date *July 8, 1921*
 Mine, *No. 1* Sec. *2* T. *95* R. *6E*
 Located, *3E* miles from *Harrisburg*
 Location in mine, *Face 10th E 5th N off 8th W. N.*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			<i>Grey shale roof</i>	
<i>30</i>	<i>1</i>	<i>1</i>	<i>Coal</i>	<i>30</i>
		<i>2</i>	<i>Charcoal</i>	<i>1/8</i>
		<i>3</i>	<i>Coal</i>	<i>31</i>
		<i>4</i>		<i>6 1/8</i>
<i>1/2 3/8</i>	<i>2</i>	<i>5</i>	<i>Tape 6 1/4</i>	
		<i>6</i>		
		<i>7</i>		
		<i>8</i>		
<i>31</i>	<i>3</i>	<i>9</i>		
		<i>10</i>		
			<i>Floor clay</i>	
(Note character and thickness of floor)				
Total thickness of coal.				
Condition, <i>As mined</i> Time, hr. min.				
Wt. Gross, <i>25</i> lbs. Net, lbs.				
What Nos. shipped by Co.?				
Excluded from sample: No. <i>None</i>				
Sample represents <i>6 1/4</i> in. tons.				
Impurities? How do they occur?				

Sample No. *4* Can No. *N-21-78* Lab. No. *12902*
 Collector, *Netzeband* Coal: Survey No. *5*
 Mine, *O'Gara #1* Co. *Saline* Index No. *0802.65*

Operator, *O'Gara Coal Co* Date *July 8, 1921*
 Mine, *No. 1* Sec. *2* T. *95* R. *6E*
 Located, *3 E* miles from *Harrisburg*
 Location in mine, *1st 5 off Main F off Main 5*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			<i>Gray shale</i>	
<i>27</i>	<i>1</i>	<i>1. Coal</i>		<i>27</i>
		<i>2. Charcoal</i>		<i>1/2</i>
		<i>3. Coal with pyrite stringers</i>		<i>39 1/4</i>
<i>1/2</i>	<i>2</i>		<i>Tape 66 3/4</i>	<i>66 3/4</i>
<i>39 1/4</i>	<i>3</i>			
(Note character and thickness of floor)				
Total thickness of coal.				

Condition, *As mined* Time, hr. min.
 Wt. Gross, *20* lbs. Net, lbs.
 What Nos. shipped by Co.?
 Excluded from sample: No.
 Sample represents *66 3/4* in. tons.
 Impurities? How do they occur?

Sample No. *2* Can No. *N-21-79* Lab. No. *12903*
 Collector, *Netzaband* Coal: Survey No. *5*
 Mine, *O'Gara #1* Co. *Saline* Index No. *0802.65*
 R.—COAL SAMPLE SHEET.

Entrance *Shaft*
 Kind of tittle *Wood*
 Motive power for hoist *Steam*
 Source if electrical
 Kind of hoist (cage, skip, etc.) *Cage*
 Kind of haulage *Electric - Mules for gathering*
 Mining equipment *2 Short Wall, all rest Breast Machines*
 Note any features of the equipment that are of special interest

SURFACE DATA.

- A. Topography, *Level*
 B. Surficial materials, (1) Character,
 (2) Thickness, (3) Effect on mining and shaft-sinking, of
 former drainage lines, underground water strata, etc.

- 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.

See drill record sheet,

- E. Notes on surrounding area,

Coal bed name: Local,

Survey No. 5Collector, *O'Garra Coal Co*Mine, *No 1* Co. *Saline*Index No. *0802*

F. Thickness of rock above bed worked,

300' of strata

(1) Important variations,

See

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

Draw slate

See

(1) Position,

On top of coal.

(2) Character,

light gray bedded shale

(3) Persistence,

yes

(4) Other workable coal beds,

#6 coal bed

See

lies approx 150' above.

H. Cap rock,

(1) Thickness,

(2) Height above coal,

See

I. Immediate roof,

Draw slate

(1) Thickness,

2" to 8"

(2) Contact with coal,

Coal parting Smooth

(3) Horizontal variation,

See

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

Ned from gray shale

(3) Persistence,

all over mine

K. Coal bed: Max.

92" Min.

Av. 70" inches

(1) Benches.

None

(a) Position,

(b) Persistence,

See

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

No distinctly bedded impurities

See

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

Much faulting usually NW-SE but some at right angles.

(a) Effect on mining,

Makes more difficult See

SECTION				
Ft.	In.	Name	Index	Sym.
7		SS		
4 to 8		Limestone		
4 to 6		shale		
5 to 6		COAL		
5	10"	Shale		



Collector, O Gara Coal Co

Coal: Survey No. 5

Mine, No 1

Co. Saline

Index No. 0802

K. (5) Physical character of Coal,

- (a) Relative hardness, *Quite hard. Harder than #6*
- (b) Lustre, *Relatively bright. Few well lamina*
- (c) Fracture, *Regular*
- (d) Texture, See

(6) Impurities in coal, other than bedded, kind, position, persistence, ease of separation, etc. *Stony pyrite lenses very numerous, some crack fillings and facings of pyrite, a few facings of calcite. Pyrite lenses adhere to coal to considerable extent.* See

L. Floor: (1) Material, *Fire Clay. Very hard and*

(2) Thickness, *?*

(3) Variation, *apparently sandy*

(4) Note character, condition, tendency to heave, relation to undercutting, commercial value. *Does not heave - Never, no undercutting in coal. No commercial value at present.*

See

(5) Clay sample No. *A-320 and A-325* Location,

M. Stratigraphy, *—*

(1) Fossiliferous horizons underground,

Collection No. *—*

Location,

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

See

Collector, *O'Connell Coal Co*

Mine, *No. 1* Co. *Saline*

Cola: Survey No. *5*

Index No. *0802*



Concrete headframe and smokestack of abandoned Sahara Mine No. 12, at Muddy, Saline County. Photo July 1976 by John Nelson.

M 32-001-5P

Symbol Description Inches

1 division = 3 in.

1st West 1/2th South, 7th West
 Main North

one line 2/3 way up between
 NW 1/4 and NE 1/4 of N 1/2 of
 Sec 3

Under gray shale

gray mud harden slate with
 small nodules, druse like down
 edge of coal

A-321

large pyritic nodules, no parting

harder of low pyrit nodules

most of these part of bag
 pyrit nodules

bedding of M coal

fine clay - hard and mangy
 impure, not productive

A-320

Collector. *Ogden Coal Co*
 Mine. *No 1* Co. *S. Mine*

Coal: Survey No.
 Index No. *0802*

STANDARD NOTEBOOK COMPANY

MADE IN U.S.A.

11

588

Entry
1st unit 12th South, 8th West North





Symbol

Description

Inches

1 division = 3 in.

Q 2
135

SE part of NE 1/4 of NE 1/4
of sec 1.
Norm 182 1/2 m E

fine sh. arg.

fine matrix of dense silt
top of seam

massive pyritous

band of pyrit nodules

band of pyrit nodules

change of pyrit nodules

1/2 m E

Fine clay 1/2 m thick, hard
some impurities, no shales

325

Collector. Ogara Coal Co
Mine. Mine No 2 Co. Spring
Q.—COAL SECTION SHEET.

Coal: Survey No.
Index No. 0802

Spots of thick brassy.

pyrite fringes A-324

in pyrite fringes. colate
a fine

This sample was taken in entry
 1st West, 12th South, 7th West
 Main North. Situated about
 2/3 way up line between NW 1/4 and
 NE 1/4 of NW 1/4 of Sect 3.
 Car Number 588

From Gray shale that
 stands well



Coarse, Med hard and firm gray shale that
 breaks very small when falling, usually
 falls with coal or soon after

A-321

← Horizon of most persistent pyrite
 lenses. Only a thin line observed here

Horizon of large pyrite lenses

Mother coal streak. Also horizon of
 pyrite nodules

Parting of mother coal

Hard clean coal
 Some banding of
 bright and dull
 lamina.

Face Sample A-323
 Pyrite lenses A-322
 Coal Specimen A-324

Fine clay - Hard and possibly siliceous, A-320
 some root impressions but no
 slip fractures

Collector. O Gara Coal Co
 Mine. No 1 Co. Saline

Coal: Survey No. 5
 Index No. 0802

This sample was taken in Room No 2, 16th N off Main E. Situated in S E part of NE 1/4 of NE 1/4 of Section 1 Car Number 135

Good shale top.



} 5" of drab slate, Med gray and firm A-326

----- Persistent horizon of pyrite lenses

----- horizon of pyrite nodules

----- " " " "

----- " " " "

Clean hard coal.
slightly banded

----- 1/2" of Mother coal.

Clean hard coal
slightly banded

Face Sample A-329
Pyrite lenses. A-328
Bony pyrite fragments A-327

Fire Clay - Extra hard and dry probably siliceous. Contains root impressions, no fracturing

A-325

Collector. O Gara Coal Co
Mine. No 1 Co. Saline

Coal: Survey No. 5
Index No. 0802

INDEX

A Bedded Impurities

There are no distinct bedded impurities in this seam although the pyrite lenses follow more or less distinct bedding planes or horizons.

B Concretion and Segregation

The many pyrite lenses may be included in this class, but inwells less they are found along persistent bedding planes. The most persistent of these horizons is about 10" below the top, in what the miners style it as impossible to drill a hole without hitting one even if there is none exposed on face. The quantity of this is large. On the least side the seam may average 2" pyrite with some less or more. This is not the most serious impurity as they are easily thrown out during hand breaking into cars.

C Lenticular clay masses

^{stone}
Joint fillings and spurs (in adjacent unit)
Some nodules of prassy pyrite (A-327)
and a very little of calcite

- " e none
- f none
- g none
- h none

i Many found although coal balls are found in seam in adjacent mine

INDEX

Roof. The roof is by far the most serious impurity in the coal. It falls to a more or less extent until the coal and bushes small and is impossible to pick out entirely. Most of the effort at the table or picking is to remove the slate, although some pyrite lenses and ironed forgings are removed.

Shon. This is not an impurity as ~~the~~ a coal shon is left to stand or remove once in a while the cutting scrapes the fine clay, where some clay enters the bag dust and is graded out.

Collector O Gara Coal Co
Mine No 1 Co. Saline

Coal: Survey No. 5
Index No. 0802

(Sample 2)

Operator, O'Gara Coal Co

Date July 6, 1933

Mine, No 1

NW-NE Sec. 2 T. 9 S., R. 6 E.

Location in mine, Room 39, 14 E., 5 N., 8 W of Main N.

Obt cen. NW-NE Sec 35 T. 8 S., R. 6 E.

(Sample #2)

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			Soapstone 25'-30" (drawslate 5")	
		1	Coal, bright, banded; Vitrain thin.	2 1/2
		2	Coal, bony or durain	10 3/8
		3	Coal bright banded; Vitrain thin	1/16
		4	Fusain	7 3/8
		5	Coal, bright, banded " "	1/16
		6	Fusain	6
		7	Coal bright banded " "	3/8
		8	Vitrain with pyrite facings	1 1/4
		9	Coal, bright banded vitrain thin	—
		10	Fusain parting	6
		11	Coal bright banded vitrain thin	5 3/8
		12	Fusain parting	1/16
		13	Coal bright banded " "	2 1/8
		14	Fusain	12 7/8
		15	Coal bright banded " "	1/16
		16	Fusain parting	8 3/4
		17	Coal bright banded " "	—
		18	Fusain	—
		19	Coal bright, banded " "	—
			Clay; underclay, hard carbonaceous (Note character and thickness of floor)	—
			Total thickness of coal.	63 1/8
		Condition, Dry	Time, 1 hr.	min.
		Wt. Gross, 60 lbs.	Net, lbs.	
		What Nos. shipped by Co.? All		
		Excluded from sample: No. Nothing		
		Sample represents 63 1/8 in. tons.		
		Impurities? How do they occur? lenses pyrite,		
(1 division=3 in.)		and limestone, facings pyrite, calcite, + kaolinite		

Sample No. 163-407 Face T663 Canadian Survey Can No. H.W. T657 T662 Lab. No.

Collector, McCabe, Benson, Cady Coal: Survey No. 5

Mine, O'Gara #1 Co. Saline Index No. 0802

R.—COAL SAMPLE SHEET.



1 division=3 in.]

O'Gara Coal Co Mine No 1
Sampled July 6, 1933

End. 11th East, 13 N., 8 W. off. Main N.
Near cen. SE. NW. Sec. 34, T 8 S., R 6 E

Roof: Gray soapstone. 30-40'
bright

1. Coal, Mainly clarain, thin vitrambands	9
2 Fusain	3/8
3. Coal ^B ; Mainly clarain (3 3/4)	3 3/4
4 Fusain	1/8
5 Coal bright	6 3/8
6 Fusain parting	
7 Coal ^{bright} mainly clarain	2 1/16
8 Fusain	1/16
9 Coal bright .. clarain	13 3/16
10 Fusain parting	
11 Coal bright mainly clarain	8 5/8
12 Fusain	1/16
13 Coal bright	1 1/2
14 Fusain	1/16
15 Coal bright	7
16 Fusain parting	
17 Coal bright	1 5/8
18 Fusain	1/16
19 Coal bright	7/8
20 Fusain	1/8
21 Coal bright	9 1/2

Tape = 64 1/8

64 1/16

Time 1 1/2 hr. WT Groco 60" Net 3[#]
Nothing excluded
Sample represents 64 1/8" Tape
Impurities: lenses of pyrite + ls. None in section

See over

Collector. McCabe Benson Cady
Mine. O'Gara #1 Co. Saline

Coal: Survey No. 5
Index No. 0802

Face Sample B.M. D. 760

Accel. Weath. Sample K 951

H. 287

Thiessen I.G.S. 248-249.

Fusain Sample I.G.S. 406.

By L. C. M^cCabe

E. T. Benson

G. H. Cady.

with Nelson Morris

Eng'r. O'Gara Coal Co
assisting.



Symbol Description Sample 3. Inches

1 division=3 in.]

July 7, 1933

O'Gara Coal Co Mine Nol
 Room 13, 49, 2d E, 2nd S, Main E.
 near Cen sec. 1. T9S, R6E
 NE-SE.

Roof: Gray soapstone - 30'-40' ±
 Drawslate, gray, 7"

1. Coal	bright, banded	4 ³ / ₄
2. Fusain parting		
3 Coal	" "	10 ³ / ₄
4 Fusain parting		
5 Coal	" "	1 ¹ / ₈
6 Fusain parting		
7 Coal	" "	5 ³ / ₁₆
8 Fusain parting		
9 Coal	" "	1 ¹ / ₄
10 Fusain		³ / ₁₆
11 Coal	" "	5 ¹ / ₁₆
12 Fusain		⁶ / ₁₆
13 Coal	" "	6
14 Fusain parting		
15 Coal	" "	⁵ / ₁₆
16 Fusain prts		
17 Coal	" "	4 ¹ / ₂
18 Fusain prt		
19 Coal	" "	2 ⁵ / ₁₆
20 Fusain prts		
21 Coal	" "	1 ¹⁵ / ₁₆
22 Fusain parting		
23 Coal	" "	1
24 Fusain parting		
25 Coal	" "	1 ⁵ / ₁₆
26 Fusain parting		
27 Coal	" "	2 ¹ / ₁₆
28 Fusain		¹ / ₈
29 Coal br	" "	14 ³ / ₈
clay, hard smooth		
(over) (Tape 61") Total		62"

Collector, LCM McCabe ET Benson Gitt Candy Coal: Survey No. 5
 Mine, O'Gara Nol Co. Saline Index No. 0802

Coal bright with numerous thin vitrain
bands and considerable fusain
streaks of brown ls. (coal balls) and lenses of
pyrite at various positions in bed - None in
section sampled

Time about 1 hr. WT. gross 60[#]
Dry. Coal brittle Net 3[#]

B.M. samples

Face - can. P. 341

Accel. Weathering can X 604
can T 643

Nothing discarded

Thickness of bed - 5'2"

Thickness sampled 5'2"

BM. V355, IGS. 403, 409 = Vitrain
401 Clarain
407 Fusain

Sampled by L.C. McCabe, E.T. Benson
G.H. Cady

With Nelson Morris, Engr

O'Gara Coal Co. Assisting.

Coal bright, with numerous thin vitrain bands

Operator, *Sahara Coal Co.* Date *Mar. 26, 1934*
 Mine, *Sahara No. 1* Sec. T. R.
 Location in mine, *Room 8, off 6th n. w. off 18th w.*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
	1	1.	<i>slate roof</i>	
	2	2.	<i>coal</i>	2
	3	3.	<i>fusain</i>	$\frac{1}{10}$
	4	4.	<i>coal</i>	$17\frac{3}{4}$
	5	5.	<i>fusain</i>	$18\frac{3}{4}$
	6	6.	<i>coal</i>	$7\frac{3}{4}$
	7	7.	<i>fusain</i>	$\frac{1}{2}$
	8	8.	<i>coal</i>	28
	9	9.	<i>hard fusain</i>	$4\frac{1}{2}$
	10	10.	<i>coal</i>	$\frac{1}{2}$
	11	11.	<i>blue underclay</i>	$3\frac{1}{2}$
	8		(Note character and thickness of floor)	
	9		Total thickness of coal	
	10			
	11			
(1 division—3 in.)		Condition, <i>dry</i>	Time, hr. min.	
		Wt. Gross, <i>800</i> lbs.	Net, lbs.	
		What Nos. shipped by Co.?		
		Excluded from sample: No.		
		Sample represents	in.	tons.
		Impurities? How do they occur?		

Sample No. *1071* Can No. *59 and 58* Lab. No. *C-749*
 Collector, *L.C. McCabe, P.L. Richards, R.J. McCleary* Coal: Survey No. 5
 Mine, *Sahara No. 1* Co. *Saline* Index No. *0802*
 R. COAL SAMPLE SHEET.

Operator, *Sahara Coal Co*

Date *March 26, 1934*

Mine, *Sahara # 1*

Sec.

T.

R.

Location in mine, *Room 5 off 9th n. off 1st E. south*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
	1	1.	<i>soapstone roof</i>	
	2	2.	<i>Coal</i>	<i>9 1/2</i>
	3	3.	<i>stony pyrite</i>	<i>1</i>
	4	4.	<i>coal</i>	<i>13</i>
	5	5.	<i>fusain parting</i>	<i>1/8</i>
	6	6.	<i>coal</i>	<i>13 1/2</i>
	7	7.	<i>fusain</i>	<i>13 1/8</i>
	8	8.	<i>coal</i>	<i>35 3/4</i>
			(Note character and thickness of floor)	
			Total thickness of coal	
		Condition, <i>dry</i>	Time, hr. min.	
		Wt. Gross, <i>80</i> lbs.	Net, lbs.	
		What Nos. shipped by Co.?		
		Excluded from sample: No.		
		Sample represents	in.	tons.
		Impurities? How do they occur?		

(1 division—3 in.)

Sample No. *1073*

Can No. *60462*

Lab. No. *C-75*

Collector, *R.C. McCabe, P.L. Richards, R.J. McClevey*

Coal: Survey No. 5

Mine, *Sahara*

Co. *Saline*

Index No. *0802*