

THIS MINE APPARENTLY OPENED
AS ELDER + BIXLER CC IN 1919.

Elder + Bixler opened in 1913. MB.

∴ Extended into Sec 23 and 24 Probably
A7 in Sec
13.

ABANDONED: JANUARY, 1972

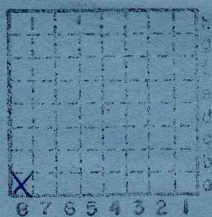
SAHARA COAL CO.

MINE No. 16

Co # 594

S-39

SALINE COUNTY



Sec. 13
9 S.
5 E.
Index No. 801

0913 AB

BGS Index 801



Mine originally operated by: (1)

Date

Blue Bira Coal Co

Original name or number:

Illinois Coal Report

P.

LATER OPERATORS

Date	Operator	Name or No.
Nov. 1941	Newslope - using old shaft as Firshaft (594)	
2 1942	Bankston Creek Collieries Co	16
3 1951	SAHARA SAHARA COAL CO.	#16
4 1965	Sahara Coal Co., Inc.	#16
5	ABANDONED - JANUARY, 1972	
6	Last production December, 1971	

7
8
9
10
11
12
13
14

100' N 600' E of SW corner SW SW (1948)

OIC 1946

*Also owners

#See ownership sheet

Railroad, Wagon, Strip, Idle, Abandoned Slope

IDENTIFICATION

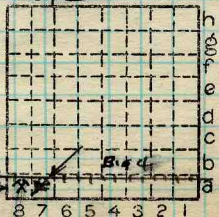
County No. (594)

Coal No.

Coal Report No. 339

Quad. Ho Galbraith 594

County Saline



Sec. 13

T. 9 N. S.

R. 5 E. #

Index No.

COAL MINE OPERATOR

0913 A7

Newslope A8



Period				Tons	
Mo.	Day	Year	Mo.	Day	Year
ELDER + BIXLER CC			1919	1913	6 279
			1920		8 851
HARRISBURG CMC "BLUEBIRD"			1921		112 210
			1922		140 770 ✓
			1923		164 070
			1924		181 442 ✓
			1925		104 999,905
			1926		48 550 ✓
			1927		137 462 ✓
			1928		ABANDONED
			1929		
			1930		

REOPENED IN 1941

SUMMARIES

No. to No.

Railroad, Wagon, Strip, Idle, Abandoned

IDENTIFICATION

County No. _____

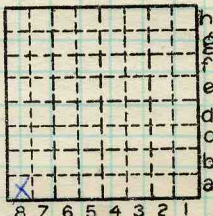
Coal No. _____

Coal Report No. _____

5

Quad. _____

County _____



Sec. 13

T. 9 S.

R. 5 W.

Index No.

A7

COAL MINE—PRODUCTION

ILLINOIS GEOLOGICAL SURVEY, URBANA



(Sheets) COAL PRODUCTION (Sheet)

Period						Tons	
Mo.	Day	Year	Mo.	Day	Year		
11	1	1941	12	31	1941	10	352
1	1	1942	12	31	1942	384	276
					1943	454	520
					1944	610	742
					1945	579	016
Bangston Creek Col 60 #16						491	154
41-50						385	182
					1947	452	817
					1948	508	732
					49	482	766
					50	338	298
					51	340	534
Sahara Coal Co #16						475	782
51-71 and						443	388
					52	478	543
					1954	443	388
					1955	478	543
					1956	443	388
					1957	480	499
					1958	461	188
					1959	521	241
					1960	545	868
					1961	569	317
					1962	611	008
					1963	662	063
					1964	680	022

SUMMARIES

No. to No.

Railroad, Wagon, Strip, Idle, Abandoned

Sec. 13

IDENTIFICATION

County No. (594)

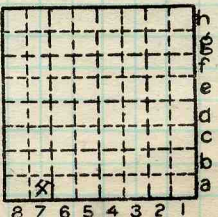
Coal No.

Coal Report No. S-39

□ 8

Quad. Galata Hamburg

County Saline



T. 9
S. 5
R. 5
E. 5
W. 5
Index No.

COAL MINE—PRODUCTION

ILLINOIS GEOLOGICAL SURVEY, URBANA

0913 A7

Period				Tons	
Mo.	Day	Year	Mo.	Day	Year
		1965			692 970
		1966			833 981
		1967			821 362
		1968			775 101
		1969			952 023
		1970			647 469
		1971			295 844

SUMMARIES

No.	1950 to 1971 (INC) No.	12	552	465
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Railroad, Wagon, Strip, Idle, Abandoned

Sec. 13

IDENTIFICATION

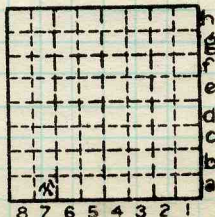
County No. _____

Coal No. 5

Coal Report No. S-39

Quad. Harrisburg

County Saline



T. 9
S.
R. S
Index No.

COAL MINE—PRODUCTION

SAHARA COAL CO. MINE NO. 16

As told by Wally Lucas of Sahara to John Nelson on 5/27/77 (after mine had been abandoned).

Along the northeast workings of the mine the coal increased to as much as 18 feet in thickness, of which the lower 6 feet or so was extremely good low-sulfur coal, and the rest was laminated shale and bone coal. Only the lower 6 feet was mined. The workings were halted because it became impossible to hold the top. The channel was never reached on the northeast.

A similar situation was encountered in the southeastern part of Mine No. 20. These workings were abandoned and sealed, and collapsed, producing a subsidence pond 10 feet deep.

In the southeastern part of Mine No. 16 the coal was split with bands of hard rock. These splits thickened eastward and brought a halt to mining. Again, the actual channel was not reached.

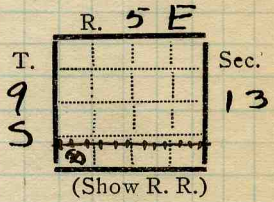
Split coal was also encountered in a meandering channel-like area in the southeast part of the mine. The coal split into two benches 10-20 feet apart. Only the upper was mined on the area inside the meander. This explains the local "high" on the No. 5 Coal as recorded on elevation sightings.

In the northernmost part of the mine the coal was extremely roly with steep dips. A series of east-west trending faults was crossed, but none of these exceeded 48" displacement. The workings were eventually stopped due to the extreme wetness of the area.



Town, **Harrisburg** 382.4 Surface alt., **387** ft.
 Local Authority, 186 Depth to coal, **189** ft.
 Level: Auth., 197.6 Alt. top coal, **198** ft.
 Method, 72 Thickness: Av. **78** in.
 Max. 84 in., Min. **60** in.

R. R.,
C.C.C. & St. L. (Saline Valley Br.)
 Location: authority,



Operator Mine Name or No.

19 **24 Harrisburg Coal Mng. Blue Bird** #1
Harrisburg

Successor to
 Date
 Succeeded by **Q Gara Coal Co**
 Date **1929**
 Succeeded by **beorbedout**
 Date **one**

✓

Q

PRODUCTION.

					U. S. No.
19	1000 48550	av. daily			
			County # 594		1930 #8

Geol. Notes? yes Coop. No. Coal secs?
 Analyses No. 20

Examined by HCC Ref.
 Coal bed name: Local **SHIPPING MINE** Survey No.
 County **Saline** Index No. 0913.00

K.—ACTIVE SHIPPING OR LOCAL COAL MINE.
X (9019-1M-7-18)



9441

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves, each Patented 1904

(5529-500)



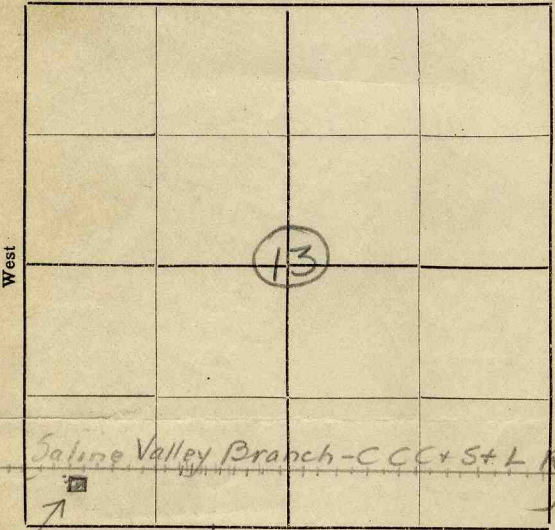
Mine Name or No. Blue Bird No. Mine Address Harrisburg, Ill.
 Operator Harrisburg Coal Mining Co.
 Main Office Address Harrisburg, Ill.

Location of Mine:

Township Name Carrier Mills County Saline
 Section No. 13 Township 9 South Range 5 East

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

North



Kindly state number of feet from quarter section lines:

870' from N. line
815' from E. line
450' from S. line
505' from W. line

Idle entire year 19... Yes No

Abandoned (date) 19.....

Saline Valley Branch - CCC + S + L Ry

South

Shaft MN
 SHIPPING MINE 87
 Surface landing is 87 feet above sea level or about _____ feet (above)
 (below) railroad station at _____ (nearest town).
 Depth to top of coal is 189 feet.
 Average thickness of coal is 6 feet 6 inches.

Do not fill in below this line.

Coal Bed Name..... Survey No.....
 County Saline..... Index No. 0913

FORM 180 W
ILLINOIS GEOLOGICAL SURVEY, URBANA

Sahara Coal Co.
#16 Mine #5 coal

Channel Sample

27S off the main E

Described by Harrison
Recorded by Berger

Roof-Dark gray shale

Medium clarain with
vitrain bands up
to 1/2"

Thickness (inches)

Fusain band

10 5/8 0 - 10 5/8

Medium clarain with
vitrain bands very bright,
clarain relatively dull

1/8 10 5/8 - 10 3/4

Fusain band

18 3/4
~~18 4/3~~ 10 3/4 - 29 1/2

Fine clarain

1/8 29 1/2 - 29 5/8

Fusain band

5 1/8 29 5/8 - 34 3/4

Coarse clarain, one
vitrain band up
to 3/4" thick

1/4 34 3/4 - 35

Fusain

5 35 - 40

Medium clarain

1/8 40 - 40 1/8

Fusain

18 1/4 40 1/8 - 50 3/8

Medium clarain

1/4 58 3/8 - 58 5/8

Fusain

1 3/4 58 5/8 - 60 3/8

Clarain

1/8 60 3/8 - 60 1/2

Fusain

2 1/2 60 1/2 - 63

Fine clarain

1/8 63 - 63 1/8

Fusain

2 63 1/8 - 65 1/8

Fusain

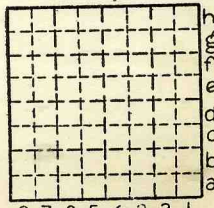
1/16 65 1/8 - 65 3/16

Harrison &
Berger

By _____ Date 8-6-58

Quad. _____ Part _____

County Saline



Sec. 13

T. 9
R. 5

(17351-5-48)
MOORE METHODS



FORM 180 W
ILLINOIS GEOLOGICAL SURVEY, URBANA

Sahara Coal Co.
#16 Mine #5 coal

(p. 2)

Channel Sample

27S off the main E

Described by Harrison
Recorded by Berger

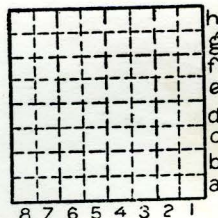
~~Roof - Dark gray shale~~

		<u>Thickness (inches)</u>	
Fine clarain	2 1/8	65 3/16	- 67 5/16
Fusain	1/8	67 5/16	- 67 7/16
Fine clarain	4	67 7/16	- 71 7/16
Fusain	1/16	71 7/16	- 71 1/2
Fine clarain	4 1/4	71 1/2	- 75 3/4
Fusain	1/8	75 3/4	- 75 7/8
Clarain	1 1/2	75 7/8	- 75 3/8 77 3/8
Bone coal, shaly	1	77 3/8	- 78 3/8
Clarain	1 3/4	78 3/8	- 80 1/8
Bone coal	3/4	80 1/8	- 80 7/8
Medium clarain	4	80 7/8	- 84 7/8
Fusain, mineralized	3/4	84 7/8	- 85 5/8
Medium clarain	3	85 5/8	- 88 5/8

Total thickness 88 5/8

Floor - Fine clay

By Harrison & Berger Date 8-6-58
 Quad. _____ Part _____
 County Saline



Sec. 13

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

Section on Slope Banston Creek Colleries
 Mine No. 16 (Sahara No. 16)
 (Old Bluebird Mine)

Soil SW 13; 9S, 5E 4 mi. W of
 Harrisburg Swimming pool on Rt. 13
 Loess $\frac{1}{2}$ mi. So. and $\frac{1}{4}$ W.

Ca20' *

lt. Sh. ? badly weathered, showing gry in loess
 wash and iron stains

Bankston Ls.

Ca20" LS "Cap rock" badly weath. & appearing
 somewhat nodular, dull reddish brn., rather
 massive numerous fusulinids (big & fat)
 Ca2" Sh. soft lt. gry.
 3/4" Sh. brn with plant matr. Coal horiz. ???
 3' clay, lt. gry. sty. weath reddish yellow.

Anvil Rock (?)

15' * SS med.-thick bed and x bed
 med.- coarse grain, misc.
 weath. brn. on top foot or two lt. gry
 below

12' * Sts. med. dk gry, fine sdy stks.

Saline

Bankston Slope JMS 10-5-42

0913

Herrin?

5-6' "bastard Ls. calcite filled, med. gry.
 sparse fos. joints rounded, eperdidal -
 angular fracture, fine grain, almost massive
 3' + med. dk gry clod - draw slate

4'10" No. 6 Coal

4' + U.C. lt. gry, slight iron stain

4' - SS, lt. green gry. avail. prob. calc. cement
 "tight" Med.-bed, med-fine grain
 mine dry below this.

grading to
 Softer sand mis

grading to
 Sts, hrd, lt. gry with sandier beds

in all abt. 36'

becoming

darker and more carb some plant foss.



Sts., dk. some plant foss.
in all, about 36'

4" Sh. lt. gry soft

20-24" Ls., argil, med. dk. gry., and Sh.: vy foss

22" 5A Coal

8" Sts., sdy, brd., med. gry., roots

4-5' Sh., irregular med. bed, Soft, irny stks.

gry Sh. with plecypods just above Ls.

10" Ls. argil., med. gry, top brnish
marine foss.

Sh. even and thin bed, mic. 1

becoming

more sty. with alt. lt. and dk. 2 bands,
quite mic.

ca79' to coal

Saline Sahara 16' slope

JMS 10-5-42

J. Schopf



Observations on lith every 3 or 4 ft. gave record of variation beds all more or less gry sty, and shy. definite lith demarcation is very difficult.

becoming more sdy with lt. gry sand stks.	3
increasing sand, harder, lt. gry. banded	4
becoming more shy. med. gry. med. bed	5
Ca79' Med. gry Sh. somewhat Sty. beds 1-2" thick	6
laminated with lt. gry sdy. stks.	7
med. lt. gry sty. Sh.	8
lighter, more sdy, streaked.	9
Sh. med. gry., med-sub massive ped.	10
Sh. Sty. med. gry. mic. med.-obscure bed somewhat slip fractured.	11
Med. lt. gry. Sh., thinner bed, at base 2-3" Sh., soft, med. gry. carb. pyr.?	12
6-8' No. 5 Coal	

Sts. floor



Section on Slope Bankston Creek Collieries mine No. 16 (Sahara No. 16) (Old Bluebird mine.)

SW 13; 9S 5E

4 mi W of Harrisburg Swining
pool on RT. 13; 1/2 mi So + 1/4 W.

Soil
Loess

lt sh? badly weathered, showing
gry in loess wash + iron stain

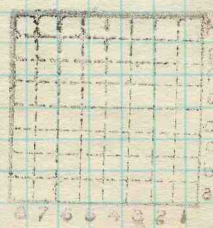
Bankston ls

Ca 20" ss "~~Caprock~~" badly weath +
appearing somewhat nodular
dull redish brn, rather massive
Numerous fusulinids (big + fat)
Ca 2" sh soft, lt grey
3/4" sh brn with plant matr. coal horiz??
3' clay, lt gry sty, weath redish yellow.

Druid Rock (?)

15' ± ss med-thick bed + X bed
med-coarse grain, mic.
weath brn on top foot or two
lt gry below

Harrisburg Quad



Sec. 13

T. 9 S.
R. 5 E.
Index No. ✓

Saline

0913

12' ± sts, med dk gry,
fine sdy st fcs

Saline

Sahara No. 16 Slope

Bankston Slope OMS 10-5-42



Bereton LG

Herrin? ← calcite filled

5-6 "Dastard" Ls, med gry, sparse fos joints rounded, spheroidal-angular fracture, fine grain, almost massive.
3" ± med dk gry clod - draw slate

4'10" No 6 Coal

4' ± UC lt gry, slight iron stain

4' ± SS, lt green gry, argil, prob Calc cemented
"Tight" med-bed, med-fine grain.
mined dry below this.

grading to
Softer Sand mic
grading to
Sts, hrd, lt gry with
sandier beds
becoming
darker + more carb
some plant fos.

in all apt 36'

Saline

Sahara 16 Slope

JMS 10-5-42





Sts, dk some plant foss.
in all, about 36'

4" sh lt gry soft

20-24" ls, argil, med dk gry, + sh: Vy foss.

22" 5A Coal

8" sts, sdy, hrd, med gry, roots.

4-5' sh, irregular med. bed, soft, irng stks.

← gry sh with plecy pods just above Ls.

10" Ls, argil., Med gry, top brnish Marine foss
soft

sh, even + thin bed, mic. 1

becoming

more sty with alt. lt + dk 2 bands, quite mic.

ca 79' to coal

Saline

Sahawal 2/2/42

JUL 10-5-42



observations on lith very 3 or 4 ft pure record of variation is very different. beds all more or less grey sty & shly - definite lith demarcation



becoming more sdy ³
with lt gry sand streaks.

increasing sand, ⁴
harder, lt gry banded

becoming more shly, med gry ⁵
med bed.

Ca 79' med gry sh, somewhat sty ⁶
beds 1-2" thick

laminated with lt gry sdy streaks ⁷

med lt gry sty sh ⁸

lighter, more sdy streaked. ⁹

sh, med gry, med-sub massive ¹⁰

sh, sty med gry, mic ¹¹
med - obscure bed
somewhat slip fractured

med lt gry sh, thinner bed, at base ¹²

2-3" sh, soft, med gry. carb. pyr?

6-8' No 5 Coal

sts floor

Saline

JMS 10-5-42

Sahara slope



See
Extra
Sheet
No.

Entrance *shaft*
 Kind of tippel *steel*
 Motive power for hoist *steam*
 Source if electrical
 Kind of hoist (cage, skip, etc.) *cage*
 Kind of haulage *motor - 1-12 ton - on main haulage*
 Mining equipment
 Note any features of the equipment that are of special interest

SURFACE DATA.

A. Topography, *Flat*
 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, *Harrisburg* Survey No.
 Collector, *HEC* *H.E. Culver, who worked at ISGS during 1920s*
 Mine, *Blue Bird* Co. *Sabine* Index No. *0913.00*
 L.—SURFACE SHEET (Geol.)



F. Thickness of rock above bed worked,

- (1) Important variations, See

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

- (1) Position, See
- (2) Character,
- (3) Persistence,
- (4) Other workable coal beds

H. Cap rock,

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

I. Immediate roof, *shale*

- (1) Thickness, *but loose* (2) Contact with coal, *even*
- (3) Horizontal variation, *none noted in* See
lithology

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

- None*
- (3) Persistence,

K. Coal bed: Max. *84* Min. *60* Av. *72* inches

- (1) Benches, *none*
 - (a) Position,
 - (b) Persistence, See
- (2) Bedded impurities, kind, position in benches, persistence, ease of separation, *none except*

the shale parting on N-W

See *X1*

- (3) Irregularities in bed (due to deposition, erosion, or movement), *Faults and rolls*

See *X1*
X2+3

- (a) Effect on mining, *added expense*

See

SECTION		
Name	Ft.	In. Sym.
	66	—
	=	=

Collector, *HCC*

Coal: Survey No.

Mine, *Bluebird* Co. *Saline*

Index No. *0913-00*



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

(a) Relative hardness, *top coal hardest, middle softest*(b) Lustre, *top brightest, middle duller*

(c) Fracture,

(d) Texture,

See

(6) Impurities in coal, other than bedded,

(a) Kind, *Pyrite lenses - rare - only 2 in mine*(b) Position and persistence, *no disposition notes*

(c) Rejected,

Ease of separation,

See

L. Floor: (1) Material, *dk gray shale*(2) Thickness, *8' +*(3) Variation, *not noted*

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

*heaves slightly when machine has cut
in it - rarely elsewhere - Is this acct
harder top layer of underclay?
No use known -*

See

(5) Clay sample No.

Location,

M. Stratigraphy,

(1) Fossiliferous horizons underground,

*Roof shales show plants - abdt locally - as in
N-W - ca Room 7 off 1st W off 2nd main N -*

Collection No.

Location,

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

See

Collector, *HCC*Mine, *Bluebird*Co. *Saline*Coal: Survey No. Index No. *0913.00*



Symbol	Description	Inches
	shale w- plant impressions	and Eight
	coal more bright than dull - in narrow bands - slightly harder than lower coal	
	1-7 - 1/2	
	2-1 2/3	
	Charcoal pt 9/2 lens-shape	4/8
	Coal 3-10 ' more dull than	
	Charcoal lens bright	3/8
	coal more dull than bright	
	Charcoal lens	4/8
	Coal more dull than bright	
	Charcoal band - lens shape	1-9/8
	Coal about half dull and half bright in bands mostly less than 1/8" max ca 1/4"	
	base concealed -	
	Tape 78"	
	Southeast Room 1 off 1W off main North feet N } of shaft " W }	

(Scale: 1 division = 3 inches).

Sample No.

Can No.

Lab. No.

Collector, HEC

Coal: Survey No.

Mine, Bluebird

Co. Saline

Index No. 0913-00

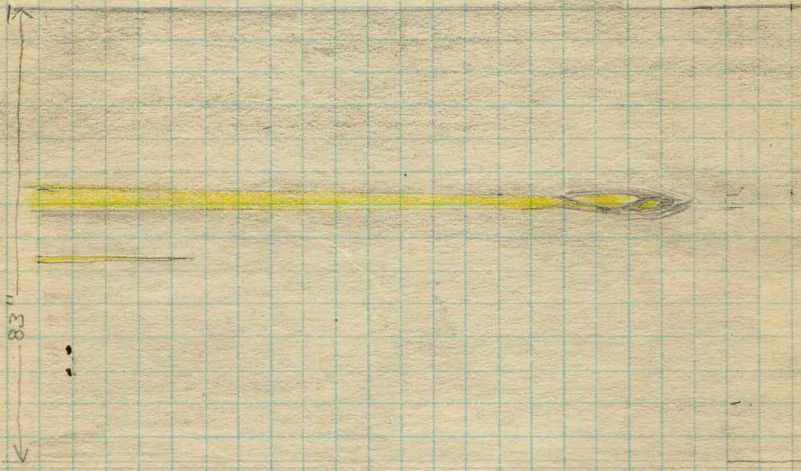
Q.-COAL SECTION SHEET.



INDEX

(36713-500-7-20)

K2



1 div = 6" both Hor. and Vert.
at face.

West wall of Room 7 off 1 West off Main N.

Sketch to scale shows end of two parts of the shale split in Harnsburg seam - coal is sb bent about the end of one shale ptg, but not about the feather edge of the other.

K3

Sketch of shale parting where faulted at face of 6th Room off 1st W off Main North



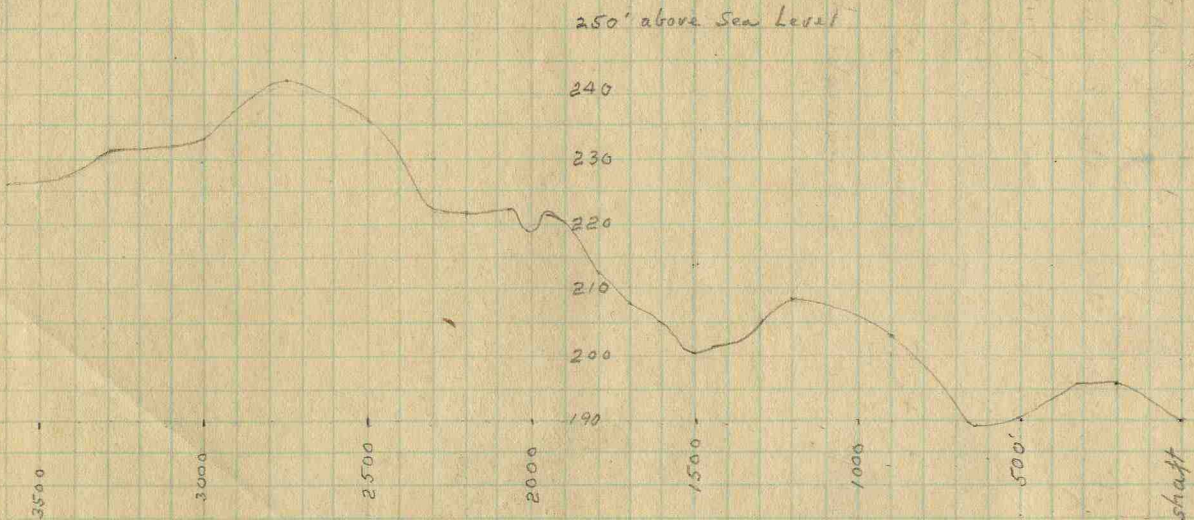
Scale 1 div = 1" Hor and Vert.



INDEX

Profile along Main South Entry.

K₃



Elev. on base of coal bed, not on base of entry as now graded. Hor. scale 1 div = 100 feet
 Vert. scale 1 div = 5 feet.
 Total relief 189' to 142' = 53'

Collector H. E. C.

Mine Bideford

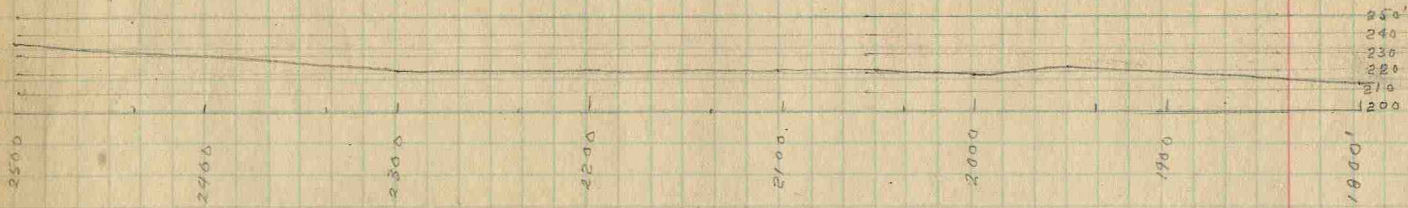
Co. Saline

Coal: Survey No.

Index No. 0913.00

X-EXTRA SHEET No. 2

Salmu
09/13.00



Because of the exaggeration of vertical scale on the profile along the main south entry, this reworking of the roughest portion, 1800' to 2500' from the shaft has been made on normal scale. It is apparent that the grades are wholly within the limit of original depressions.

Salmu
09/13.00



ILLINOIS GEOLOGICAL SURVEY, URBANA

Sample #1

Sahara Mine 16

1st SE of 0 SW Main West

1350'S, 550'E, center, Sec. 23-9S-5E

Saline County

Logged by H. J. Gluskoter, November 10, 1964
& Wm. H. Smith

No. 5 Harrisburg Coal Description

Total thickness - 59 inches

INCHES

~~Feet and tenths~~

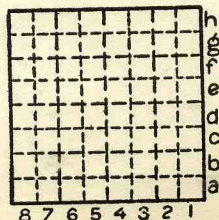
0	-	21 3/4	Coal, normally bright banded, pyrite and calcite on vertical fractures; 1/8" fusain at 17 1/2"
21 3/4	-	37 1/2	Coal, normally bright banded, 1/8" fusain lenses at 1'9 3/4". 1'10 1/2" zone of thin discontinuous pyrite lenses (3 or 4) from 2'1" to 2'4"
37 1/2"	-	37 1/2"	Fusain, 1/2"
37 1/2"	-	48"	Coal, normally bright banded, 1/8" fusain at 47"
48"	-	59"	Coal, normally bright banded, calcite on vertical fractures.

Note: Only the top unit described had calcite on the cleats.

By HJG & WHS Date 11/10/64

Quad.....Part.....

County SALINE



Sec. 23

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



ILLINOIS GEOLOGICAL SURVEY, URBANA

Sample #2

Sahara Coal Company 16
Room 27 off 17th West off Main
North Entry
500'S, NE/c, Sec. 14-9S-5E

Saline County

Logged by Gluskoter and Smith, November 10, 1964

No. 5 Coal Description

^{INCHES} Total thickness - 8'9"

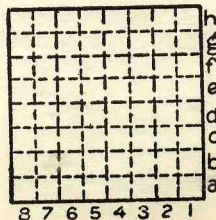
~~Feet and tenths~~

0'	-	3"	Coal, wide banded, calcite and pyrite on vertical fractures.
3"	-	22"	Coal, normally bright banded, mineralized fusain band 18" thick at 6", other thinner fusain bands scattered throughout. 3/16" mineralized fusain at 14 1/2". Entire unit and contains large amounts of fusain.
22"	-	28"	Coal, highly sheared. Fusain and shaly coal intermixed. Extremely soft, friable zone, highly mineralized.
28"	-	43 1/2"	Coal, normally bright banded, calcite on vertical fractures, 1/2" fusain at 2'9 1/2". Three thin mineralized fusain bands between 3'6 1/2" and 3'7 1/2".
43 1/2"	-	56"	Coal, normally bright banded.
56"	-	59"	Coal, very soft, sheared, much calcite on vertical cleat faces (5'3" - 5'3 1/2" - Fusain soft.) With abundant thin fusain throughout.
59"	-	86"	Coal, normally bright banded, calcite on vertical fractures. 1/8" fusain bands at 6'6" and 7'2".

By HJG & WHS Date 11-10-64

Quad.....Part.....

County Saline



Sec. 14

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

ILLINOIS GEOLOGICAL SURVEY, URBANA

Sample #2

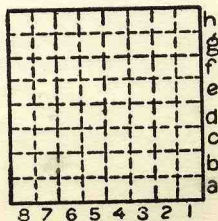
86" -105"

Coal, normally bright banded, very many, very thin, fusain lenses, calcite and some pyrite on cleat faces. Coal is soft, highly fractured.

By HJG & WHS Date 11-10-64

Quad.....Part.....

County Saline



Sec. 14

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



ILLINOIS GEOLOGICAL SURVEY, URBANA

Sample 3

Sahara Mine 16

Room 51 off 6th West, 27 South, Main East

720'W, 150'S, NE/c, Sec. 25-9S-5E *Saline County*

Logged by Gluskoter and Smith, November 10, 1964

No. 5 Coal Description

Top dark gray shale, hard, slaty, 6'8" consisting of:

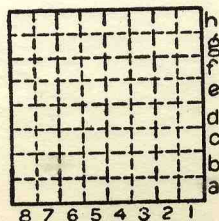
INCHES
~~Feet and tenths~~

- 0' - 13" Coal, normally bright banded, minor amounts of pyrite and calcite on cleat faces, thin (less than 1/16") pyrite stringers at 2½ - 4 - 6½ and 7 inches. Coal is much harder than at sample localities 1 and 2.
- 13" - 13½" Fusain mineralized, hard.
- 13½" - 36" Coal, normally bright banded, calcite prominent on cleat. Soft fusain band 1/8" thick at 1'4 3/4" and another at 2'1½".
- 36" - 36 3/4" Fusain soft.
- 36 3/4" - 80" Coal, normally bright banded, calcite on cleat faces, several soft fusain lenses, coal is very hard, no prominent mineral bands or pyrite lenses.

By HJG & WHS Date 11-10-64

Quad..... Part.....

County SALINE



Sec.	25
T.	9
R.	5
N.	
S.	
E.	
W.	



Notes on Sahara Coal Company, Mine No. 16 -
visited by J. A. Simon and M. E. Hopkins on
November 14, 1967

19? In general this mine is quite hilly with local relief as much as 40 feet. This "hillyness" may reflect the depositional variation related to the thick gray silty shales which overly the coal throughout the mine. However, in the area, near where Face Channel Sample #1 (November 14, 1967) was taken, there is a silty shale (or siltstone) split in the lower part of the coal. Mr. Boyd (Supt.) reports that it gets up to about 3' thick in the area. Nearby in Secs. (14) and 30, 9S, 6E, a sinuous non-mined area 200'± wide can be seen on the mine map. This would appear to be a "wash-out" but the coal is present. It was not mined because of the high rate at which it rises up over the area not mined. Main entries were driven under the coal in a few places. The cause of this abrupt rise and fall of the coal here is not known, but it could be that a non-compactable channel-fill occurs beneath the coal.

The immediate roof throughout the mine is a silty plant-bearing, gray shale carrying large flattened bark and stem impressions up to perhaps 3' across and 30' long. However, most of the plant material is measured in inches. Roof failures are of two principal types. (1) In the northeastern part of the mine, where face-channel sample 3 (November 14, 1967) was taken, there is up to 14' of intensely interbedded coal and shale, the coal making up about 25% and occurring principally as vitrain bands averaging $\frac{1}{4}$ " in thickness. The amount of coal is variable from place to place. Two rooms west of where sample 3 was taken, the coal makes up only about 5% of the overlying material. Coal thicknesses in this area are slightly lower than in adjacent area characterized

Saline Co.

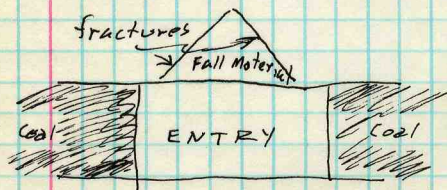
Sec. 13 - 9S - 5E

Sahara #16

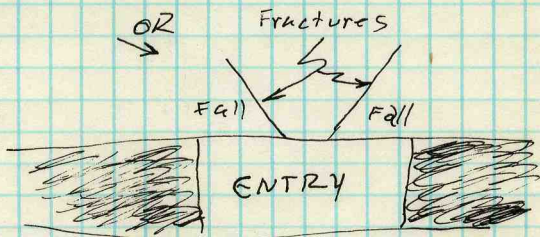


SALINE

by normal roof, about 5 to 6 feet as compared to 6 or 7 feet. When the coal is mined this interbedded coal and shale falls and is loaded out and run through the preparation plant. Rooms and entries as high as 20' were noted near center of NE $\frac{1}{2}$ Sec. 13, 9S, 5E. (2) Occasional roof falls are the result of inclined slickensided fractures. Falls result especially when two adjacent fractures have similar strikes parallel to the length of the entry but opposing dips thusly:



"coffin cover"!



Other falls occur at intersections and are probably related to fractures but this may not be so obvious. There did not appear to be a single dominant direction throughout the mine for these fractures.

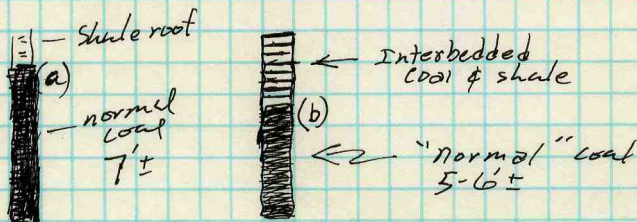
The area of intensely interbedded coal and shale roof seems to run NW-SE perhaps parallel to a sandstone channel which is known to lie to the east. The two are probably related in some way.



Need revisit of Mine No. 16

SALINE

- (1) Check on character of material under the coal where coal rises up sharply as in south-eastern part of mine. This is the part of the mine where a sinuous, non-mined area can be seen on mine map. Is this a channel in the material below the coal? If so is it really below the underclay zone and in the sandstone part of the #5 cycle? Or is it in the gray silty shale complex that splits the coal in this part of the mine?
- (2) Sample for spore analysis; the upper part of No. 5 Coal in the mine where (a) a "full" height of coal occurs and (b) where the interbedded coal and shale occurs (as much as 14') to determine if the interbedded material is subsequent to the general deposition of No. 5 Coal or if it represents the upper part of the coal.





Sahara Coal Co. - Mine No. 16 - No. 5 Coal - Saline County
 Face Channel Sample No. 1 - described by J. A. Simon and
 recorded by M. E. Hopkins 11/14/67

400'E, 300'N, SW/c NE NW - Sec. 30-9S-6E

Face thickness 4'9" (some coal left in floor)

Roof is gray shale with large plant fossils impressions

Coal - normally bright banded

0-2½"

Coal - bony

2½-3"

Coal - normally bright banded
 with Kaolinite prominent on
 vertical fractures, pyrite
 more prominent in upper part,
 occasional vitrain bands up
 to ½" thick

3-21½"

Zone with normally bright
 banded coal and three soft
 nonmineralized fusain lenses
 up to ½" thick

21½"-25"

Coal - normally bright banded
 with white Kaolinite promi-
 nant on vertical fractures,
 with a ½" soft fusain lense
 at 30", some calcite on ver-
 tical faces in lower part

25-48"

Fusain - slightly mineralized
 with pyrite, ¼" to ½" thick

48-48½"

Coal - normally bright banded,
 hard, calcite and Kaolinite
 on vertical faces

Nothing excluded from face channel sample - Underclay not
 reached

Bottom of coal sampled represents approximately the po-
 sition of a shell parting which marks floor of mine in
 this area, however, there is no parting at point of
 sample, to east parting thickens



Sahara Coal Co. - Mine No. 16 - Sample No. 2 - described
by M. E. Hopkins and recorded by J. A. Simon 11/14/67

225'W, 200'N, SE/c NW NW - Sec. 19-9S-6E - Room 14 off 1st
W. 24th S. off main E - total thickness 93"

Roof - shale, gray with numerous carbonaceous flat plants
and large fragments - one lepidodendron at least 18" in
diameter, well laminated

Coal - normally bright banded,
essentially free from any
minerals on cleat facings
except some Kaolinite in the
bottom 4"

0-21"

Fusain - soft, slightly cal-
careous

21-21½"

Coal - normally bright banded,
slight amount of Kaolinite on
vertical facings

21½-46"

Fusain band - nonmineralized

46-46¼"

Coal - normally bright banded,
occasional thin fusain bands
and partings, Kaolinite and
calcite on vertical facings,
vitrain prominent

46½-81"

Coal and Shale - thinly inter-
laminated

81-81½"

Coal - normally bright banded,
several thin fusain and bony
coal bands, hard

81½-88½"

Pyrite and coal - thinly inter-
laminated, about 2/3 pyrite

88½-89"

Coal - normally bright banded
with several thin bony bands,
hard

89-93"

Nothing excluded from sample

Claystone - seatrock, hard, carbonaceous rootlets, very
carbonaceous



Sahara Coal Co. - Mine No. 16 - Saline County - Sample No. 3 - described by J. A. Simon and recorded by M. E. Hopkins 11/14/67

700'N, 550'W, SE/c SE NE - Sec. 13-9S-5E

Roof is gray shale and coal intimately interbedded. Shale is gray, carbonaceous, slip fractured, thinly interlaminated with coal, much of coal is bright vitrain and constitutes about 25% of the section, perhaps slightly more coal in bottom part than at top. About 7' of this material here. Reported up to nearly 14' in north entries. Interbedding is parallel. This material is mined because of inability to hold as roof. Coal sampled is 5'4" thick - nothing excluded

Coal - bright banded, bony in part, relatively soft, some thin shale partings	0-2"
Coal - normally bright banded, bony in part	2-5"
Coal - normally bright banded, with occasional kaolinite facings on vertical fractures (not prominent), occasional thin fusain bands	5-44"
Coal - bright banded and finely banded with occasional thin fusain bands, some pyrite and kaolinite on vertical facings, thin bony coal lense at base	44-48½"
Coal - bright banded with pyrite prominent on vertical fractures	48½-50½"
Coal - bright but thinly banded, slightly bony in parts	50½-53"
Fusain band - soft, nonmineralized	53-53½"
Coal - bright banded, vitrain bands up to 1/8" thick, interlaminated with bony coal	53½-59½"
Coal - bright, bony coal and shale thinly interlaminated	59½-64"
Bottom could not be dug out - more material similar to that above is present	