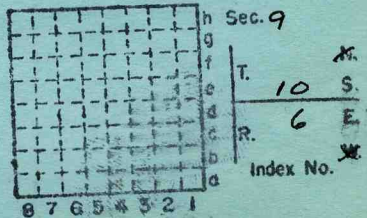


See active shipping book.

Saxton Coal Corp.
Walnut Grove #2

S-51



SALINE County

: abandoned 6/65

This Mine was abandoned in 1959⁺ and a new mine was opened at Sec. 9, T.10 S.- R.7 E., near the town of Somerset, The Coal Reports, however, continued to list the new mine under the same name and coal report no., S-51.

For the sake of distinction, this mine is called Walnut Grove # 1, and the new mine will be called Walnut Grove # 2.

L.D.W. -- 9/66

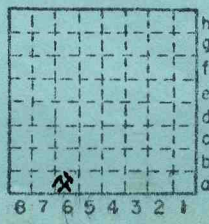
Youngs coal Corp "Walnut Grove"

~~Saxton Coal Corp. "Walnut Grove Mine" #1~~

used for
Somerset
Mine "only"

~~Mine Index No.~~
~~840~~ ~~841~~
~~Davis~~ ~~DeKoven~~

S-51



h Sec. 9
g
f T. 10 #
e S.
d
c R. 6 E.
b Index No.
a

Saline Co.

Mine originally operated by: (1)

Date

Original
Illinois

Date

Name or No.

3/4/86

Saxton mine reclamation awarded

Lieutenant Governor George H. Ryan, Chairman of the Abandoned Mined Lands Reclamation Council, Monday stopped by the old Saxton Coal Company's 'Walnut Grove' mine, about five miles south of Harrisburg, to announce that \$718,500 worth of reclamation will be done in the first phase of the project this spring. The site contains many environmental hazards resulting from the acidic spoil and mine refuse on the site. The acidity of the material, and the steep slope of the hills make it difficult to support vegetation, and acid water flows onto the land around the Saline River's South Fork. Reclamation will consist of burying the acid spoil, grading ridges to stabler slopes, and fertilizing and seeding the area. 'Green manuring,' or plowing the vegetation back into the soil in order to enhance soil quality, will be used. Work on the 100 acres will continue for another two years. A contract for the first phase of the project was awarded to Wayne Hepp, grading contractor of Ava, in a recent competitive bidding. (Register photo—Bob Bondurant)

Cutline

105 6E 9 Saline

*Also (

Railroad, Wagon, S

IDENTIFY

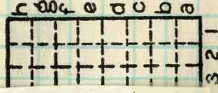
County No.

Coal Report No.

Quad.

County

ip sheet



Sec.

T.

N. S.

R.

E. W.

Index. No.

87654
COAL MINE OPERATOR



Mine originally operated by: (1)

Date

Saxton Coal Corp.

Original name or number: Walnut Grove Mine
Illinois Coal Report S-51 p. 54

LATER OPERATORS

Date

Operator

Name or No.

2 6/63

Youngs Coal Corp

Walnut Grove

3

4

5

6

7

8

9

10

11

12

13

14

*Also owners

#See ownership sheet

Railroad, Wagon, Strip, Idle, Abandoned

IDENTIFICATION

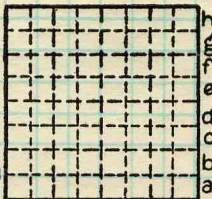
County No. _____

Coal Report No. S-51

Quad.

County Saline

Coal No.
Davis
□
DeKoven



Sec. 9

T. 10

R. 6

Index No.

COAL MINE OPERATOR



Period		Tons	
Mo.	Day Year	Mo.	Day Year
	1956	114	216
	1957	547	280
	1958	637	241
	1959	564	289
	1960	711	33
	1961	700	002
	1962	656	757
	1963	640	660
	1964	609	656
	1965	327	840

This sheet lists production for both Saxton Coal Corp. mines, Walnut Grove No. 1 (Mitchelsville mine) and Walnut Grove No. 2, (Somerset Mine). It is not known exactly when No. 1 ceased production and No. 2 began.

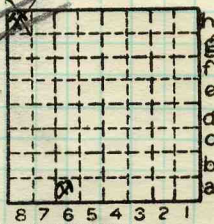
SUMMARIES

No. to No.

Railroad, Wagon, Strip, Idle, Abandoned

IDENTIFICATION

County No. _____ Coal No. Davis
 Coal Report No. S-51 De Koven
 Quad. _____
 County Saline



Sec. 9

T. 10 S.
 R. 6 E.
 Index No.

COAL MINE—PRODUCTION

Mine originally operated by: (1)

Date

SAXTON C. CORP.

April 1956
1959±

Original name or number: "WALNUT GROVE" #2
Illinois Coal Report p. 6

LATER OPERATORS

Date

Operator

Name or No.

June 1963₂ YOUNGS COAL CORP. WALNUT GROVE

3

4

5

6

7

8

9

10

11

12

13

14

*Also owners

#See ownership sheet

Railroad, Wagon, Strip, Idle, Abandoned 1964 (Rec)

IDENTIFICATION

County No. _____

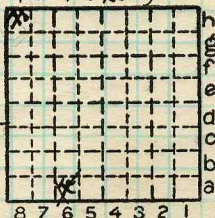
Coal No. _____

Coal Report No. S-51

Dekoven
Davis

Quad. _____

County SALINE



Sec. 19
T. 10 N.
R. 7 E.
Index No.

COAL MINE OPERATOR





(Sheets) COAL PRODUCTION (Sheet)

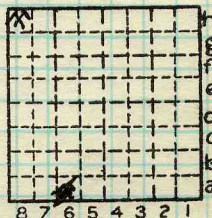
Period						Tons			
Mo.	Day	Year	Mo.	Day	Year				
See Saxton Coal Corp. "Walnut Grove No. 1" for combined Production.									

SUMMARIES									
No.	to		No.						

Railroad, Wagon, Strip, Idle, Abandoned

IDENTIFICATION

County No. _____ Coal No. _____
 Coal Report No. 5-51
 Quad. _____
 County Saline



Sec. 9

T. 10 S. _____
 R. 7 E. _____
 Index No. _____

COAL MINE—PRODUCTION

ILLINOIS GEOLOGICAL SURVEY, URBANA



W.H. SMITH & D. BERGGREN
new location of Walnut Grove

SEP. 15, 1959

~~Somerset Mine~~ - Saxton Coal Co
OUTCROP OF DAVIS COAL IN STRIP PIT
FACE - SAXTON MINING CO, PIT
W. OF ROAD, SAMPLE LOCALITY #1
RTSE. ENTRANCE TO PIT. SE 1/4 SW 1/4 SW 1/4
Sec. 5. T-10S R 7E Saline County
CHANNEL SAMPLE TAKEN FOR CHEM.
ANALYSIS.

- SECTION FROM DE KOVEN TO THE DAVIS
APPROXIMATE.

COAL
DE KOVEN - SOMEWHAT WEATHERED,
IN HIGH WALL, NOT ACCESSIBLE FOR MEASURING

CLAY: Lgt gray, approx. 3'

SHALE: MED. DRK GRAY, WELL LAMINATED,
HARD, UPPER 2' SOFTER & GRADATIONAL
INTO CLAY ABOVE, BOTTOM 2'
CONTAINS NUMEROUS NODULES &
LENTICULAR BANDS OF SIDERITE,

14 1/2"

SHALE: DRK GRAY SLATY HARD,
W/ PYRITIZED BRACHIOPODS &
PELECYPODS

3 1/2"

PYRITIC SH: SH. SOFT, V. PYRITIC
CONSISTING OF A COQUINA OF
SMALL FOSSILS & FOSSIL FRAGMENTS
W/ OCCASSIONAL VITRAIN BANDS.
VARIES FR. 1" TO 2" - INTERTONGUES
W/ COAL

PI of 5

DAVIS COAL :

- 0" - 2" : COAL NBSB ;
2" - 3 $\frac{1}{4}$ " : COAL, DULL, RATHER BONY
3 $\frac{1}{4}$ " - 17" : COAL NBSB W/ PROMINANT
CALCITE FILLED VERTICAL SPACINGS
17" - 17 $\frac{1}{2}$ " : FUSAIN, MUCH PYRITIZED

5" - 5 $\frac{1}{2}$ " - FUSAIN
MUCH PYRITIZED
VARIES CON-
SIDERABLY &
IS DISCONTIN-
UOUS ALONG
THE FACE

17 $\frac{1}{2}$ " - 29" : COAL NBSB, W/OCCASIONAL
FUSAIN PARTINGS; CALCITE ON CLEFT
FACES; & AN OCCASIONAL FLATTENED
PYRITIC CONCRETIONS, UP TO 1" x 4",
NOTED LATERALLY ALONG FACE;
PROMINANT FUSAIN PARTING AT
29" .

29" - 50" : COAL NBSB, VERY SIMILAR
TO INTERVAL FR. 17 $\frac{1}{2}$ " - 29" .

54' 2"

NOTE: SAMPLED IN LATE AFTERNOON
ON W. FACING HIGH WALL
EXPOSURE. 2" \pm FACE SURFACE
COAL REMOVED BUT MOISTURE
PROBABLY INFLUENCED BY AIR
DRYING & EXPOSURE TO SUN .

STANDARD FACE CHANNEL SAMPLE
APPROX. 4" WIDE IS 2" DEEP EQUATING
ABOUT 3/4 OF 5 GAL. CAN SEALED
IN PLASTIC LINER. LABELLED
LOCALITY 41 .

P. 2 of 5

new location of "Walnut Grove"

~~SOMERSET~~ ~~Coal Co~~ ^{Mt. Erie} Soyton Coal Co

SAMPLE LOCALITY NO. 2: ABOUT
MIDWAY ALONG 1800 FT. COAL
FACE EXPOSED IN PIT, $\frac{1}{2}$ MI. NW OF
S.L. #1. SE $\frac{1}{4}$, NW $\frac{1}{4}$, SW $\frac{1}{4}$, SEC. 5 - T103 R9E
STANDARD FACE CHANNEL SAMPLES TAKEN
& SEALED IN PLASTIC LINERS IN
TWO 5 GAL. CANS. ~~Coal Co~~

THE OVERBURDEN AT THIS LOCALITY IS VERY
SIMILAR TO THAT AT S.L. #1,
EXCEPT THAT LOCALITY #2 ONLY
THE UNITS FROM THE BASE OF
THE DEKORER UNDERCLAY DOWNWARD
ARE PRESENT IN THE (HIGHWALL),
W/ ABOUT 15' OF LOESS AND
ALLUVIUM ABOVE. THE SECTION
IN THE FIRST 15 FT. ABOVE THE
COAL IS ALMOST IDENTICAL TO
THAT IN NO. 1. THE 1200 FT IS
VERY UNIFORM ALONG THE HIGH-
WALL FACE.

SAMPLE LOCALITY #2 WAS WET, WITH
WATER STANDING IN SMALL POOLS
ALONG THE WALL. NO WATER
COMING OUT OF COAL, HOWEVER.

~~DAVIS~~ DAVIS COAL - LOCALITY #2

- 0" - 2 $\frac{1}{2}$ " : Coal NBB
2 $\frac{1}{2}$ " - 4" : Coal rather dull lony, hard
4" - 13" : Coal NBB, slightly harder than coal
below & less pyrit.c, w/ a fairly prominent
fusain parting at 13 inches.
13" - 30" : Coal NBB with $\frac{1}{8}$ " \pm fusain
parting at 2 to 3 inch intervals, fairly
prominent amt. of pyrite on dist. face
occasional pyrite lenses 1" thick $\frac{1}{3}$ "
10" long (\pm) occur w/in this interval

laterally ©

30"-31" : Coal NBB, v. Pyritic,
w/ $\frac{1}{16}$ inch pyritic sh. in middle,
discontinuous along outcrop.

31" - 49" : Coal NBB with prominent
pyrite on cleat faces

new location of "Walnut Grove"

~~SOMERSET~~ TRINE, Saxon Coal Co

SAMPLE LOCALITY #3 ABOUT 750 FT
W. OF LOCALITY #2 & APPROX.
150 FT. FROM W. END OF
STRIP PIT.

NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 5 - T10S R9E
Saline County

DAVIS COAL :

0" - 7" : COAL, MED BRIGHT, v. BLOCKY, HARD, SOMEWHAT
BONY

7" - 12" : COAL, SIMILAR TO ABOVE BUT SLIGHTLY
LESS BONY.

12" - 32" : COAL NBB w/ $\frac{1}{16}$ - $\frac{1}{8}$ inch fusina
parting at 1 to 3 inch intervals, promi-
nent amts of calcite on vertical cleat
faces.

! Pyrite nodules 1" x 6" (\pm) occur
irregularly in bed about 32" below top

32" - 46" : COAL, NBB with prominent
calcite on vert. cleat faces.

~~SECTION ABOVE DAVIS COAL ON~~
~~THIS WALL~~

P.H. of $\frac{5}{-}$

COAL FACE CHOPPED CLEAN & ~~ONE~~
STANDARD FACE CHANNEL SAMPLE
(2"x4") COLLECTED & SEALED IN PLASTIC
LINER IN ONE 5 GAL. CAN.
SEEPAGE WATER COLLECTS IN
SMALL POOLS ALONG WALL BUT
COAL FACE DOES NOT SEEP.

SECTION ABOVE DAVIS COAL (LOCALITY #3)
EXPOSED IN HIGH WALL. MOSTLY
INACCESSIBLE.

DEKOUEN COAL :

UNDERCLAY : LIGHT GRAY, essentially
unbedded, grades into 3'

SHALE : MED GRAY, 1'-4'

S.S: MED GRAY, V. IRREGULAR IN
THICKNESS FROM 4" to 4"

SHALE : MED DRK GRAY GRADES INTO
SH. DRK GRAY TOWARD BASE

MARCASITE-PYRITE COQUINA ^{15'} with
thin bands of coal interbedded.
1"

DAVIS COAL.

W. H. Smith & D. Berggren

Sep. 15, 1959

new location of "Walnut Grove"

~~SOMERSET MINE~~ - SAXTON COAL CO.

Outcrop of Davis Coal in strip pit face -
 Saxton mining Co. Pit W. of road, sample
 locality #1 At SE. entrance to pit. SE $\frac{1}{4}$
 SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 5. T-10S - R-7E Saline County.
 CHANNEL SAMPLE TAKEN FOR CHEM. ANALYSIS.

SECTION FROM DEKOVEN TO THE DAVIS APPROXIMATE.
 DeKoven Coal - Somewhat weathered, in high
 wall, not accessible for measuring

Clay - Light gray, approx. 3'

Shale - Medium dark gray, well laminated,
 hard, upper 2' softer & gradational into
 clay above, bottom 2' contains numerous
 nodules and lenticular bands of siderite.
 14'6"

Shale - Dark gray, slaty, hard, with pyritized
 brachiopods and pelecypods
 3'6"

Pyritic Shale - Shale soft, very pyritic,
 consisting of a coquina of small fossils
 and fossil fragments with occasional
 vitrain bands. Varies from 1" to 2" -
 Intertongues with coal

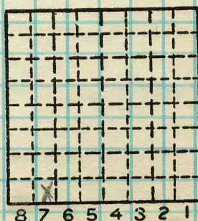
DAVIS COAL:

- 0" - 2": Coal normally bright banded
- 2" - 3 $\frac{1}{4}$ " : Coal, Dull, Rather bony
- 3 $\frac{1}{4}$ " - 17": Coal normally bright banded with
 prominent calcite filled vertical spacings
- 17" - 17 $\frac{1}{2}$ " : Fusain, much pyritized - Fusain

By _____ Date _____

Quad. _____ Part _____

County _____



h Sec. 5
 g T. 10
 f S.
 e R. 7
 d E.
 c
 b
 a Index No.

much pyritized varies considerably and is discontinuous along the face.

17½" - 29": Coal normally bright banded, with occasional fusain partings; calcite on cleat faces; and an occasional flattened pyritic concretions, up to 1" x 4", noted laterally along face; prominent fusain parting at 29".
 29" - 50": coal normally bright banded, very similar to interval from. 17½" - 29".

4'2"

Note: sampled in late afternoon on West facing high wall exposure. 2"± face surface coal removed but moisture probably influenced by air drying and exposure to sun.

Standard face channel sample approximately 4" wide by 2" deep equaling about 3/4 of 5 gallon can sealed in plastic liner. Labeled locality #1. *new location of "Walnut Grove"*

~~Somerset Mine~~ Saxton Coal Company

Sample locality No. 2: about midway along 1800 feet coal face exposed in pit, and N NW of S.L. #1. SE¼, NW¼, SW¼, Sec. 5-T10S-

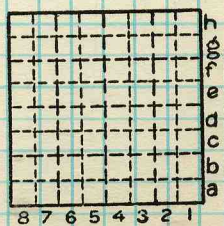
79E standard face channel sample taken and sealed in plastic liners in two 5 gallon cans.

The overburden at this locality is very similar to that at S.L. #1, except that locality #2 only the units from the base of the DeKoven underclay downward are present in the highwall, with about 15' of loess and alluvium above. The section in the first 15' above the coal is almost identical to that in No. 1. The roof is very uniform along the highwall face.

By Date

Quad. Part

County



Sec.
 T.
 R. 7
 Index No.



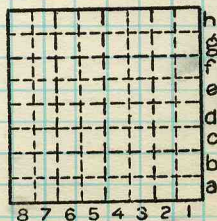


Sample locality #2 was wet; with water standing in small pools along the wall. No water coming out of coal, however.

By..... Date.....

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

County.....



Sec. 5
 T. 10 S.
 R. 7 E.
 Index No.



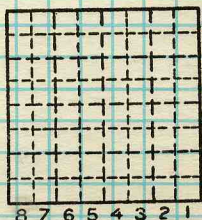
Davis Coal - Locality #2

- 0" - 2 $\frac{1}{2}$ " : Coal normally bright banded
- 2 $\frac{1}{2}$ " - 4" : Coal rather dull bony, hard
- 4" - 13" : Coal normally bright banded, slightly harder than coal below and less pyritic, with a fairly prominent fusain parting at 13 inches.
- 13" - 30" : Coal normally bright banded with 1/8"± fusain parting at 2 to 3 inch interval, fairly prominent amounts of pyrite on cleat faces and occasional pyrite lenses 1" thick lay 10" long (±) occur within this interval laterally.
- 30" - 31" : coal normally bright banded, very pyritic, with 1/16 inch pyritic shale in middle, discontinous along outcrop.
- 31" - 49" : Coal normally bright banded with prominent pyrite on cleat faces.

By _____ Date _____

Quad. _____ Part _____

County _____



Sec. 5
 T. 16 S.
 R. 7 E.
 Index No.

SOMERSET MINE, SAXTON COAL COMPANY

Sample locality #3 about 750 feet west of locality #2 and approximately 150 feet from west end of strip pit.

NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 5-T10S-R7E, Saline County

DAVIS COAL:

- 6" - 7" : Coal, medium bright, very blocky, hard, somewhat bony.
- 7" - 12" : Coal similar to above but slightly less bony.
- 12" - 32" : coal normally bright banded with 1/16 - 1/8 inch fusain parting or 1 to 3 inch interval, prominent amounts of calcite on vertical cleat faces.

: Pyrite nodules 1" x 6" (\pm) occur irregularly in bed about 32" below top.

32" - 46" : coal, normally bright banded with prominent calcite on vertical cleat faces.

Coal face chopped clean and standard face channel sample (2" x 4") collected and sealed in plastic liner in one 5 gallon can.

Seepage water collects in small pools along wall but coal face does not seep.

Section above Davis Coal (Locality #3) exposed in high wall. Mostly inaccessible.

DEKOVEN COAL:

Underclay: Light gray essentially unbedded, grades into 3'

Shale: Medium Gray, 1' - 4'

Sandstone: Medium gray, very irregular in thickness from 4' to 4"

Shale: Medium dark gray, grades into. Shale dark gray toward base.

15'

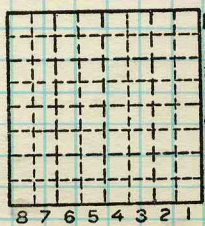
Marcasite - Pyrite coquina with thin bands of coal interbedded. 1"

DAVIS COAL:

By _____ Date _____

Quad. _____ Part _____

County _____



h Sec. 5
 g T. 10 S.
 f E.
 e R. 7
 d
 c
 b
 a Index No.





ILLINOIS GEOLOGICAL SURVEY, URBANA

Miscellaneous Notes on Mine Visit to Youngs Coal Company Mine near Somerset in Saline County, Illinois.

On March 10, 1965, J. A. Simon and M. E. Hopkins of the Coal Section of the Illinois State Geological Survey visited three pits of the Youngs Coal Company strip mine in Sections 4 and 5, T. 10 S., R. 7 E., Saline County, Illinois. Mr. Asa Ellis, Superintendent of the mine, accompanied us into the pits.

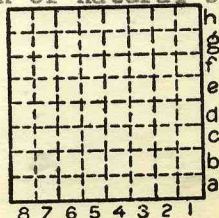
The primary objective of the visit was to check the character of the strata overlying the DeKoven and Davis Coals as a basis for comparison with the areas of the Walnut Grove and Newcastle Mines of the Saxton Coal Company and the Will Scarlet Mine of the Stonefort Coal Mining Company, all lying on the outcrop of the DeKoven and Davis Coals to the west.

Of particular interest in this brief examination was the the character of natural fracturing as the fault was approached and the slump structures in what is believed to be the No. 2 Coal and immediately associated strata.

Fracturing: Most of the highwalls that were observed had obviously been shot with explosives. Mr. Ellis explained that the leaving of a shot buffer zone prior to subsequent drilling and shooting prevented excessively large blocks of sandstone being dislodged into the pit and also gave generally better breakage of the rock. The broken material obviously is adequate to support the drag line equipment.

The fact that the strata had been broken with explosives made determination of natural breakage

By.....Date.....
Quad.....Part.....
County Saline



Sec. 4d5
T. 10 S.
R. 7 E.

more difficult, but there were places which had not been shot which permitted such examination. we did not observe any significant differences in the character of natural fractures from those observed in strip pits which have operated in the Davis and DeKoven Coals in mines to the west listed in paragraph 2 above.

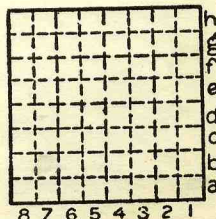
Mr. Ellis reported that at the extreme east edge of the property which is close to the mapped trend of major faulting that the coal was broken in a series of two or three steps upward to the east. The coal was reportedly little affected on the top of these steps. The faults strike generally in a northward direction (subparallel to major faulting?) with a decrease in displacement northward. We observed one such displacement near the east end of the last cut north where the displacement was about 5 feet (3 feet was reflected in a fold with displacement of an additional 2 feet.) The fault appeared to be a relatively high angle normal fault.

Folding: A relatively unusual feature was observed in the upper part of the highwall in that the normally flat-lying No. 2 Coal at several places appeared to be downfolded at several points, with the downfold being broken in part. It was not practical to examine these relationships at close hand because of their exposed position well down in the highwall. The underlying DeKoven Coal and the overlying sandstone did not appear to reflect this "folding," although the exact relationship of the overlying strata was not clearly observable.

By.....Date.....

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

County Saline.....



Sec. 4 & 5
 T. 10 S.
 R. 7 E.

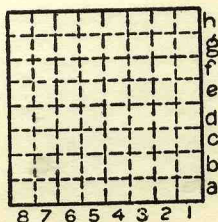
It is our feeling that this "folding" is probably due to differential compaction of the shale and sandstone sequence lying between this coal and the underlying DeKoven Coal. The effects of this differential compaction must have been manifest shortly after deposition of the coal and overlying black shale. No evidence was observed which would relate this "folding" with tectonic forces such as those which produced the minor "step faults" and the large fault to the east of the property. The same general relationships have been reported to the west, at much greater distances from known faulting.

Conclusion: Other than the small faults observed and reported at the east end of the property, we did not observe any significant change in the geologic sequence, character of fractures, or other geologic relationships which appear different than strip mines to the west as far as that of the Stonefort Coal Mining Company Will Scarlet Mine.

By.....Date.....

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

County Saline.....



Sec. 445
 T. 10 S.
 R. 7 E.

ILLINOIS GEOLOGICAL SURVEY, URBANA

Youngs Coal Corporation
Somerset Mine
(Saxon Mine)
Box 26, Harrisburg, Illinois

June 8, 1965
Sample No. 1

Dekoven Coal

Sampled by Peppers and Harrison

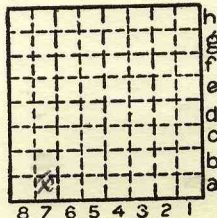
Sample 1 of 3 taken from face of coal where overburden had been removed about 75 feet from the North end of N.-S. pit - Coal exposed on top in the strip pit.

SE
^ SW SW, Sec. 4, T. 10 S., R. 7 E.

	<u>Feet</u>	<u>Inches</u>
Coal - medium banded bright, attrital.		6.5
- Vitrain band		1.0
- Finely banded, with pyrite faces on cleating		3.0
- Pyritic band - pyrite layer and nodules up to 2" thick coal taken at point where layer was 1/2" thick		2
1/2" pyrite removed from Sample.		
- Medium banded, bright		11.5
Total Thickness	3	10
pyrite	—	1/2
870 Coal	3	9 1/2

Peppers took 3 benches from the Dekoven coal at this point.

By Peppers, Harrison Date 6/8/64
Quad. Rudeman (274) Part b
County Saline



Sec. 4
T. 10 S.
R. 7 E.

#1

ILLINOIS GEOLOGICAL SURVEY, URBANA

page 2

Sample 1 of 3 from Youngs Coal Corp. Summerset Mine

Inches

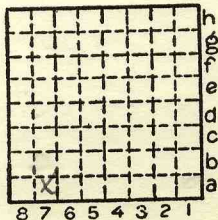
Bench 1 17

Bench 2 15

Bench 3 14

⋮

By Peppert Harrison Date 6/8/44
 Quad. Rudament (274) Part b)
 County Saline



Sec. 4

T.	<u>10</u>	N.
R.	<u>7</u>	E.



ILLINOIS GEOLOGICAL SURVEY, URBANA

Youngs Coal Corporation
Saxons Mine
(Saxon Mine)
Box 26, Harrisburg, Illinois

June 9, 1965
Sample No. 1

Davis Coal

Sampled by Peppers and Harrison
Sample taken from middle of pit from face of coal seam.
Top of coal uncovered for stripping.

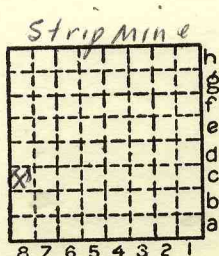
~~SW NW SW~~
~~NW SW SW~~

~~NW SE~~, Sec. 4, T. 10 S., R. 7 E.

	<u>Feet</u>	<u>Inches</u>
Coal - medium banded, bright, attrital with one 1/4" pyrite layer 5" from top.	1	0.5
1/4" (0.25) pyrite removed		
- bright banded attrital coal with vitrain bands up to 1/4"		7
- fusain soft to slightly mineralized.		0.5
- bright banded attrital coal with vitrain layers up to 1/2"	1	2
- pyritic layer, nodules up to 1 1/2"		2
1 1/2" pyrite nodule removed		
- bright banded attrital coal with vitrain bands up to 1" thick.	1	8
Total	4	8
(Underclay) Pyrite	—	1.75
	4	6.25

Peppers took 3 benches from face.
0.3 mile south of this point.

By Peppers & Harrison Date 6/9/65
Quad Rudement 274 Part B
County Saline



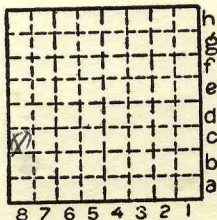
Sec. <u>4</u>	
T. <u>10</u>	N. <u></u>
R. <u>7</u>	E. <u></u>
	W. <u></u>

#2

ILLINOIS GEOLOGICAL SURVEY, URBANA

	<i>inches</i>
Band 1	18
Band 2	18
Band 3	16

By *Peppers & Harrison* Date *6/9/65*
 Quad *Rudement (274 Part b)*
 County *Saline*



Sec. *4*
 T. *10*
 R. *7*

ILLINOIS GEOLOGICAL SURVEY, URBANA

Youngs Coal Corporation
Somerset Mine (Strip Mine)
(Saxon Mine)
Box 26, Harrisburgh, Illinois

June 8, 1965
Sample No. 2

Dekoven Coal

Sampled by Peppers and Harrison
Sample 2 of 3 was taken 200 feet from N. end of pit.
Coal had been exposed on top. Sample taken from face
in middle of pit. (strip)

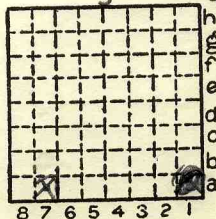
^{SE}
SW SW, Sec. 4, T. 10 S., R. 7 E.

	<u>Feet</u>	<u>Inches</u>
Coal - Finely banded, bright attrital, with pyrite on cleating		3
- Pyrite nodule		1.5 re- moved
- Fine to medium banded bright attrital with pyrite on cleating 1		9.5
- Pyritic Zone with nodules up to 3 inches		4
3 inch pyrite removed		

- Medium banded, bright attrital	1	
- Fusain - soft and relatively mineral free		1
- Medium banded, bright attrital	2	

Total thickness	3	9
	—	4.5 pyrite
	3	4.5

By Peppers & Harrison Date 6/8/64
 Quad. Rudemen #1274 Part. 6)
 County Saline



Sec. 4

T. <u>10</u>	N.
	S.
R. <u>7</u>	E.
	W.

#3

ILLINOIS GEOLOGICAL SURVEY, URBANA

Youngs Coal Corporation
Somerset Mine
(Saxon Mine)
Box 26, Harrisburg, Illinois

June 9, 1965
Sample No. 3

Dekoven Coal

Sampled by Peppers and Harrison
Sample 3 of 3. Taken from west high wall or rib,
about 400 feet from the N. end of pit.

SE
A SW SW., Sec. 4, T. 10 S., R. 7 E.

	Feet	Inches
Sandstone - medium gray to buff	6±	
Shale - dark gray	35±	
Coal - Finely banded, bright attrital with numerous pyritic cleating faces and a few pyrite nodules up to 1/4". A number of 1/16" fusain band evenly distributed throughout	1	10

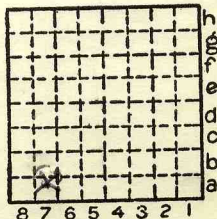
1/4" pyrite nodule removed

- pyrite band with interlamina-
tions of coal. Removed from
sample 1 removed

- Medium banded attrital coal
with pyrite nodules up to 3"
A 2" nodule at base removed 1 0

2" nodule removed

By Peppers & Harrison Date 6/9/65
Quad Rudemont (274 Part b)
County Saline



Sec. 4	N.
T. 10	S.
R. 7	E.
	W.



ILLINOIS GEOLOGICAL SURVEY, URBANA

Feet

Inches

- Finely banded, bright attrital coal. One 1/2" vitrain band 8" from bottom

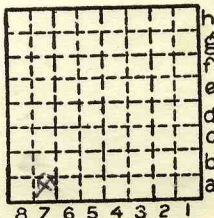
10

Underclay - gray, fine grained

Total 3 9

Pyrite — 3.25 py-ri
3 5.75 Coal

By Pepper Harrison Date 6/8/65
Quad. Rudement (274 b) Part
County Saline



Sec. 4
T. 10
R. 7

ILLINOIS GEOLOGICAL SURVEY, URBANA

Youngs Coal Corporation
Somerset Mine
(Saxon Mine)
Box 26, Harrisburg, Illinois

June 8, 1965
Sample No. 1

Tipple - NW NW NW
Sec. 9

Dekoven Coal

Sampled by Peppers and Harrison

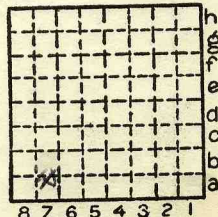
Sample 1 of 3 taken from face of coal where overburden had been removed about 75 feet from the North end of N.-S. pit - Coal exposed on top in the strip pit.

SE
SW SW, Sec. 4, T. 10 S., R. 7 E.

	<u>Feet</u>	<u>Inches</u>
Coal - medium banded bright, attrital.		6.5
- Vitrain band		1.0
- Finely banded, with pyrite faces on cleating		3.0
- Pyritic band - pyrite layer and nodules up to 2" thick coal taken at point where layer was 1/2" thick		2
1/2" pyrite removed from Sample.		
- Medium banded, bright		11.5
Total Thickness	3	10
pyrite	-	1/2
Coal	3	9 1/2

Peppers took 3 benches from the Dekoven coal at this point.

By Peppers & Harrison Date
Quad. Rudament (274-b) Part
County Saline



Sec. <u>4</u>	N.
T. <u>10</u>	S.
R. <u>7</u>	E.
	W.

ILLINOIS GEOLOGICAL SURVEY, URBANA

page 2

Sample 1 of 3 from Youngs Coal Corp. Sunnyside Mine

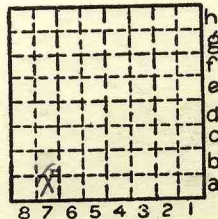
Inches

Bench 1	17
Bench 2	15
Bench 3	14

By Peppers & Harrison Date

Quad. Rudement (274 Part b) Part

County Saline



Sec. 4

T. <u>10</u>	N.
	S.
R. <u>7</u>	E.
	W.



ILLINOIS GEOLOGICAL SURVEY, URBANA

Youngs Coal Corporation
Somerset Mine
(Saxon Mine)
Box 26, Harrisburg, Illinois

June 9, 1965
Sample No. 1

Tipple - NW NW NW
Sec. 9

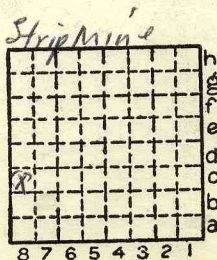
Davis Coal
Sampled by Peppers and Harrison
Sample taken from middle of pit from face of coal seam.
Top of coal uncovered for stripping.

SW NW SW
NW SE., Sec. 4, T. 10 S., R. 7 E.

	<u>Feet</u>	<u>Inches</u>
Coal - medium banded, bright, attrital with one 1/4" pyrite layer 5" from top.	1	0.5
1/4" (0.25) pyrite removed		
- bright banded attrital coal with vitrain bands up to 1/4"		7
- fusain soft to slightly mineralized.		0.5
- bright banded attrital coal with vitrain layers up to 1/2"	1	2
- pyritic layer, nodules up to 1 1/2"		2
1 1/2" pyrite nodule removed		
- bright banded attrital coal with vitrain bands up to 1" thick.	1	8
Total	4	8
(Underclay) Pyrite	-	1.75
	4	6.25

Peppers took 3 benches from face.
0.3 mile south of this point.

By Peppers & Harrison Date 6/9/65
Quad Rudment # 274 Part b)
County Saline



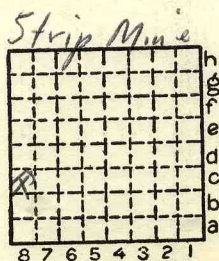
Sec. 4	
T. 10	N.
	S.
R. 7	E.
	W.

ILLINOIS GEOLOGICAL SURVEY, URBANA

inches

Band 1 18
 Band 2 18
 Band 3 16

By *Peppers & Harrison* Date *6/9/65*
 Quad. *Rudament (274 Part b)*
 County *Saline*



Sec.	<i>4</i>
T.	<i>10</i> 11
R.	<i>7</i> 8

ILLINOIS GEOLOGICAL SURVEY, URBANA

Youngs Coal Corporation
Somerset Mine *(Strip Mine)*
(Saxon Mine)
Box 26, Harrisburgh, Illinois

June 8, 1965
Sample No. 2

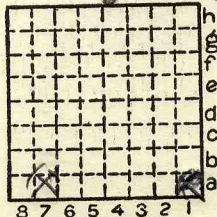
*Tipple - NW NW NW
Sec. 9*

Dekoven Coal
Sampled by Peppers and Harrison
Sample 2 of 3 was taken 200 feet from N. end of pit.
Coal had been exposed on top. Sample taken from face
in middle of pit. *(strip)*

SE
SW SW, Sec. 4, T. 10 S., R. 7 E.

	<u>Feet</u>	<u>Inches</u>
Coal - Finely banded, bright attrital, with pyrite on cleating		3
- Pyrite nodule		1.5 re- moved
- Fine to medium banded bright attrital with pyrite on cleating 1		9.5
- Pyritic Zone with nodules up to 3 inches		4
3 inch pyrite removed		
- Medium banded, bright attrital	1	
- Fusain - soft and relatively mineral free		1
- Medium banded, bright attrital		2
Total thickness		
	3	9
	3	4.5 pyrite 4.5

By *Peppers & Harrison* Date *6/8/64*
Quad *Rudement (274)* Part *6)*
County *Saline*



Sec. *4*

T. <i>10</i>	N.
	S.
R. <i>7</i>	E.
	W.

ILLINOIS GEOLOGICAL SURVEY, URBANA

Youngs Coal Corporation
Somerset Mine
(Saxon Mine)
Box 26, Harrisburg, Illinois

June 9, 1965
Sample No. 3

Tipple - NW NW NW
Sec. 9

Dekoven Coal
Sampled by Peppers and Harrison
Sample 3 of 3. Taken from west high wall or rib,
about 400 feet from the N. end of pit.

SE
A SW SW, Sec. 4, T. 10 S., R. 7 E.

Sandstone - medium gray to buff Feet Inches
6±

Shale - dark gray 35±

Coal - Finely banded, bright attrital with numerous pyrite cleating faces and a few pyrite nodules up to 1/4". A number of 1/16" fusain band evenly distributed throughout 1 10

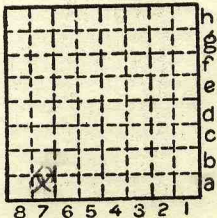
1/4" pyrite nodule removed

- pyrite band with interlamina-tions of coal. Removed from sample 1 removed

- Medium banded attrital coal with pyrite nodules up to 3" A 2" nodule at base removed 1 0

2" nodule removed

By Peppers & Harrison Date 6/9/65
Quad Rudomen (274 Part b)
County Saline



Sec. 7

T. 10	N.
R. 7	S.
	E.

ILLINOIS GEOLOGICAL SURVEY, URBANA

Feet Inches

- Finely banded, bright attrital coal. One 1/2" vitrain band 8" from bottom

10

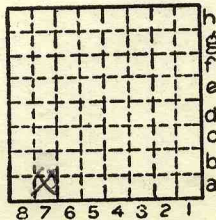
Underclay - gray, fine grained

Total 3 9

Pyrite 3.25 pyrite

3 5.75 Coal

By Lappin & Harrison Date 6/9/65
Quad. Rudement (274) Part b
County Saline



Sec. 4
T. 10 N.
R. 7 S.
E.
W.

Abandoned Pit - Youngs Coal Co.

11/19/71

NE-NE-NW 4-10S-7E

Saline

Structure in High Wall - folding.

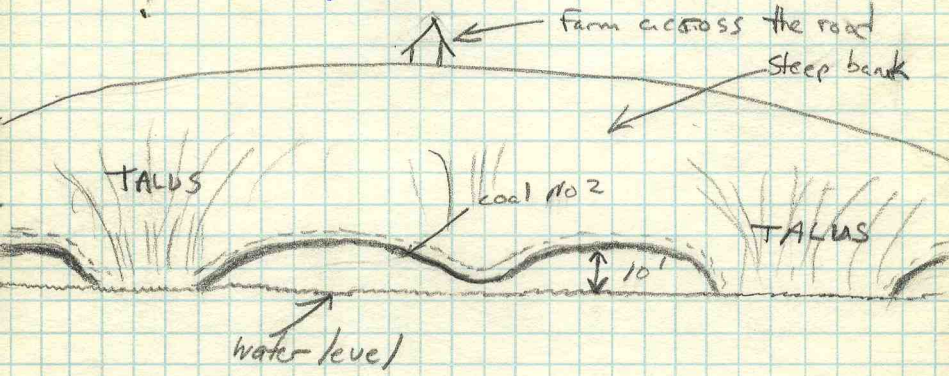
No. 2 coal at water level.

Several photos taken from south side of lake.

Exposures on north shore.

Not accessible from N. Bank of Lake.

Photos shot looking due north. Farmhouse in background.



TALUS - 25'

Sandstone - med grained, micaceous, very light gy and red stain. Weathered, flaggy poorly exposed. ~ 1'

COAL - weathered, blocky. approx. 9-12"

Clay - Hgy. Weathered. Flows down slope

TALUS - 8-10'



YOUNGS COAL CORP. SOMERSET MINE SALINE COUNTY

Abandoned Strip Mine

Located in Sections 3-6, 8, and 9, 10 S-7 E.

Notes by John Nelson 10/26/77

This is an abandoned strip mine that extracted the Davis and DeKoven Coals in the late 50's and early 60's. As shown on the mined-out-area map, there were two mining areas. The western one occupied about 160 acres, mostly in the SW $\frac{1}{4}$ of Section 5. The easterly, larger pit covered perhaps 400 acres in Sections 4 and 5 and small parts of adjacent sections.

I visited this mine because M.E. Hopkins told me numerous faults were visible in the highwall when the mine was active. I found a disappointing shortage of highwalls because the company mined through low hills from crop line to crop line. No highwalls at all were found in the west mining area, and only a small area of the east pit had exposed rock highwalls.

As shown in the attached sketch map, the highwalls are located on both sides of a road that runs through the mining area. (The road is not shown on the topo map for this area).

East of the road is a pit trending to the NE, curving eastward. There is a highwall on the NW side which becomes lower to the NE. Evidently the company mined to the crop line in the NE but found the overburden too deep near the road. This is near the high point of a hill, as shown on the topo map.

The pit is filled with deep water and the highwall is very steep so it can only be viewed from across the pit. A section of strata above the DeKoven Coal is exposed; sandstone and shale. There are possible faults close to the road, in the highest part of the highwall. These appear to be high-angle breaks of several feet displacement with peculiar folding of adjacent strata. It is impossible to determine strike or even if these really are faults and not an illusion caused by slumping of rock down the face of the highwall.

West of the road is a larger L-shaped pit with

Sketch Map Somerset Mine Area



NE corner Sect 5?

ROAD

SOMERSET
MINE - WEST
PIT

Highwell
Water-Filled PIT

SOMERSET MINE
EAST PITS

SHAWNEE HILLS

ROAD

SE Cor. Sect 5

SLURRY
RECOVERY
OPERATION

ROAD

Big Selme church

See U.S. G.S. Topo.
Rudement 7 1/2 Min.

ROAD

SW cor
sect 5

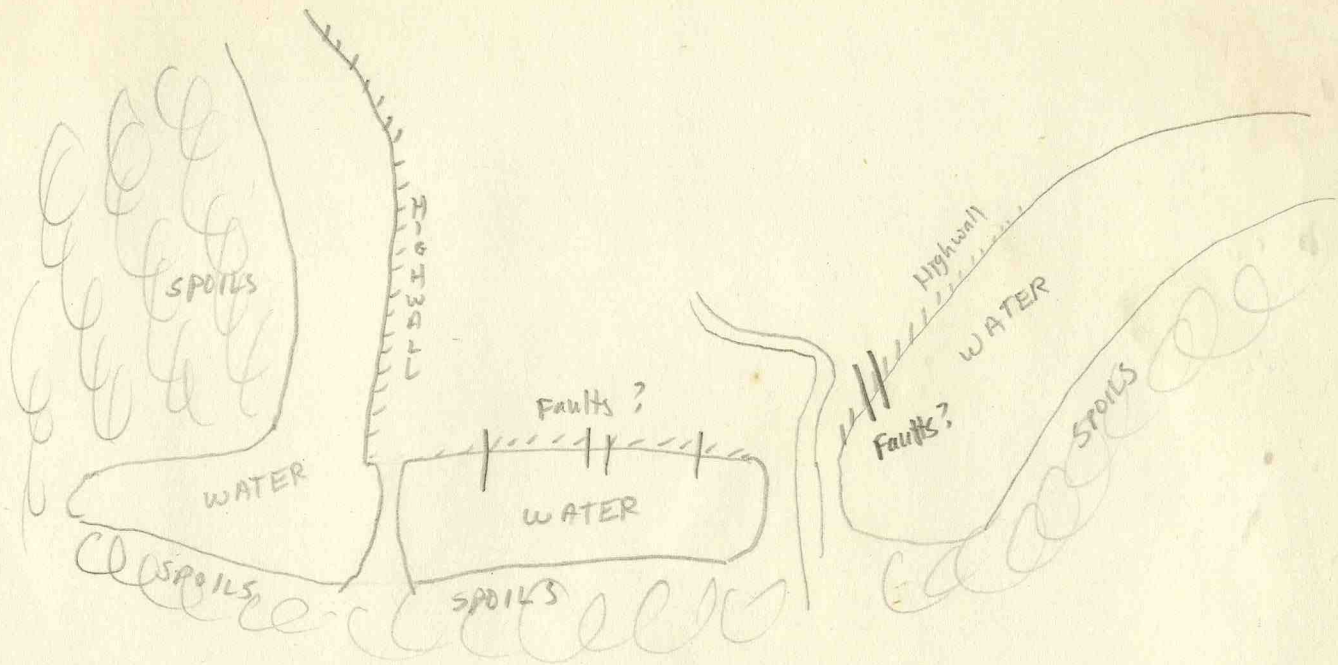
+

V. Anderson
Conway Min

FORM 180 W

MOORE'S
MODERN
METHODS





large south-and west-facing highwalls. Again the adjacent pit is full of water and the highwalls cannot be studied directly except at the east end and at the corner of the "L", where a bridge of spoils crosses the pit.

Estimated Section

- 20' Sandstone, brownish, weathers yellowish to dark reddish, fine to medium grained, thin to medium bedded, bedding appears discontinuous and lenticular, locally cross-bedded. Highly fractured appearance.
- 1' Shale, black, fissile.
- 0.5' Coal (DeKoven Rider ?) N.B.B.
- 3' Claystone, light gray, soft.
- 20' Sandstone, light gray, weathers orange-brown, thin to thick bedded, discontinuous lenticular bedding, finely laminated, locally cross-bedded. Sharp contact:
- 15-20' Shale, medium-dark gray, silty to sandy, thinly laminated.
- 3-4' Coal (DeKoven) Above water line only near corner of "L".
- Lower strata under water.

There is abundant indication of faulting, as shown by areas of broken and deformed rock on the highwall, but none of the fractured areas were accessible for close study. Accordingly it is impossible to make a positive distinction between faults and the effects of highwall slump. It is not possible to determine the orientation of any of the apparent faults.

The faulting is seen only along the south-facing section of the highwall. The west-facing wall has no indication of faulting. I walked the rock bench on top of the west-facing wall and found nothing that could be attributed to tectonic action, but the mater-

ials had been much disrupted by mining, so again it was hard to see much definite.

On the south-facing wall is one fairly definite normal fault with 3-4 feet displacement at the contact between the lower sandstone and underlying shale. The other apparent faults are narrow, steeply dipping to vertical zones of fractured or deformed rock. These may be narrow grabens, and reverse faulting is also possibly present. But it is possible that much of this appearance is due to slump. Without being able to get closer I cannot say. None of the broken zones show consistent displacement the full height of the wall.

The Burns Oil Company of Evansville, Indiana is currently conducting a slurry-recovery operation from the slurry pond. of the Somerset Mine. The pond had been drained and the fine slurry is being excavated and loaded out. According to a worker on the site, it is sent out "as is" without further treatment, and is blended with fresh coal by the customers. The pit covers about 40 acres and the slurry is 25-40' deep, as shown by test drilling. No analyses were available but to my eye the fine slurry appears to be mostly coal.

This slurry deposit represents a larger amount of coal than many present strip mines have in virgin coal.