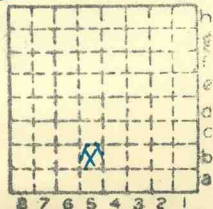


Sevantou + Big Muddy CMC

416

ISGS mine index # 816



Sec. 33

T. 8 S. ~~X~~

R. 3 E. ~~X~~

Index No. 816





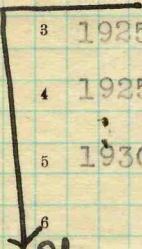
Mine originally operated by: (1) **Scranton & Big Muddy Coal Mining Co.**

Date
1908

Original name or number: #1
Illinois Coal Report 1908 p.

LATER OPERATORS

Date	Operator	Name or No.
2 1920	Scranton Coal Mg.Co.	Scranton
3 1925	Standard Coal & Coke Co.	
4 1925	W. E. Craine, Reciever	
5 1930	Charter Coal Co.	



*These aren't recorded in Coal Report.
7 1925 is last year of production
8 given.*



* Also owners

#See ownership sheet

Railroad, Wagon, Idle, Abandoned

SHIPPING MINE

IDENTIFICATION

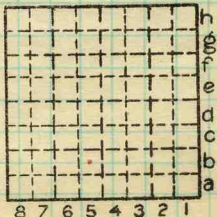
County No. **416**

Coal No.

Quad. **W. Frankfort**

Part

County **Williamson**



Sec. **33**

T. **8** N.
R. **3** E.
E.V.

Index No.

0233 b5

COAL MINE OPERATOR



LOCATION AND ELEVATION

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

on top. map Location sheet

Elevation: Method, 1. Est. () ft.
2. Inst. (kind Hand Level) 481 ft.

By G.H.C. NB79 p.9-10 Data sheet

DEPTH

Authority To coal ft.
Authority Rail to rail ft.
Top of coal above rail. (Est. Rule) 154 ft.
To coal ft.

ALTITUDE OF TOP OF COAL

By estimated data
By instrumental data 327 ft.

Thickness

Max. in. Min. in. Aver. 84 in.

GEOLOGICAL DATA

Mine notes, date
Coop No. Pyr. inv. Coal Ash inv.

CHEMICAL DATA

Analyses Face U. I. 1567-68 B. M. Others
Car U. I. B. M. Others
Org. Sulf U. I. B. M. Others
Ash fusion U. I. B. M. Others
Ash anal. U. I. B. M. Others
U. I. B. M. Others

Classification

Misc. tests: Coking. Cleaning Boiler

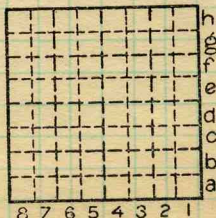
Published descriptions:—

Railroad, Wagon, Idle, Abandoned

IDENTIFICATION

County No. 416 Coal No. 6

Quad. W. Frankfort Part
County Williamson



Sec. 33

T. 8 S.

R. 3 E.

Index No.

0233 b5

COAL MINE LOCATION AND DATA

Town, Marion ~~Pittsburg~~ Surface alt., 481 ft.
 Local Authority, John Wardle Mine Mgr. Depth to coal, 154 ft.
R. C. Hill, Mgr. Alt. top coal, ~~310~~ 327 ft.
 Level: Auth., Cady. NB-79-p9, 10 Thickness: Av. 84 in.
DeWolf NB-65-pl6 Max. 108 in., Min. 72 in.
 Method, H.L.

R. R., Mo. Pac. Marion & Eastern T. R. 3 E
 Location: authority, Cady; top. map S. Sec. 33
DeWolf S. (Show R. R.)
Letter S & Big Muddy
 Operator C.M.Co. 2/27/18 Mine Name or No.

GEN'L COAL REPT. #416 Coal Mining

19 08 Scranton & Big Muddy C.M.Co. Scranton No. 1

Successor to
 Date
 Succeeded by Standard Coal & Coke Corp No. 1
 Date 1090 Old Colony Bldg
 Succeeded by Chicago
 Date Wilber E. Crane, Receiver Q°

PRODUCTION.

		Fiscal	U. S. No.
19 15	1100-1600 T.	181 614	922
<u>1918</u>	<u>1500 T</u>		
<u>27</u>	<u>0-0</u>		
1930 = <u>Charter Coal Co</u> <u>37 W. Van Buren St</u> <u>W E Crane Pres</u> <u>sects Sept 17 1920</u>			

Geol. Notes? Yes Coop. No. Coal secs.? Yes.
 Analyses No. 1567, 68. **5**
 Examined by Cady & DeWolf Ref.

Coal bed name: Local Survey No. 6
 County Williamson Index No. 0233.51

K. - ~~ACTIVE~~ SHIPPING OR LOCAL COAL MINE.
Sale since 1920

Town,
Local Authority,
R.C. Hill, Mgr.
Level: Auth.,
Cady

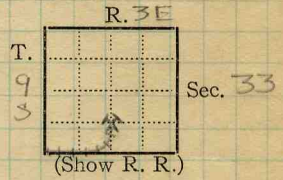
John Wardle
M. Mgr.

Surface alt., 480± ft.
Depth to coal, 160 ft.
Alt. top coal, 320 ft.
Thickness: Av. 76 90 in.
Max. 100± in., Min. 36 in.

Method, Sec field notes

R. R., Mo. Pac.

Location: authority, Map West. Frankfort quad.



Operator

Mine Name or No.

19 Scranton & Big Muddy Coal Mining Co. Scranton

Successor to
Date
Succeeded by
Date
Succeeded by
Date

PRODUCTION.

	Output	U. S. No.
19	1100 - 1600 tons	

Geol. Notes?
Analyses No.

Coop. No.

Coal secs?

Examined by

Ref.

Coal bed name: Local

Survey No.

County Williamson

Index No.

0233

K.—ACTIVE SHIPPING OR LOCAL COAL MINE.



COAL MINE NOTES.

COUNTY *Williamson*

TOWN *Spillertown*

MAP No. ~~0233~~ *0233*

T. *85*

R. *3E*

S. *33.5E. SW.*

OPERATOR *The Scranton & Big Muddy Coal & Mining Co.*

OFFICE *Marion.*

MINE *The Scranton & B. M. C + M Cos mine.*

TIPPLE

ENGINES *Etna. direct acting cylinder. 18" x 22"*

BOILERS

DRUM *Steel.*

SHAFT

CAGE *Duncan*

HAULAGE *Mules.*

CARS *Wood 2 1/2 tons.*

VENTILATION *Fans reversible. Forcing.*

DRAINAGE

SPRINKLING

WORKING SYSTEM

MINING METHODS

Pick machines under cut.

SIZE OF ENTRIES—MAIN *10* CROSS ROOM *20* NECK

SIZE OF PILLARS—MAIN CROSS ROOM *16*

SHAFT CHAIN BARRIER

AMOUNT OF TIMBERING SIZE

PROPORTION OF COAL UTILIZED *All taken out.*

AMOUNT AND CHARACTER OF WASTE

ACREAGE OF COAL MINED

ACREAGE OF COAL REMAINING

PROPORTION OF MINE RUN AND SCREENED COAL

METHOD OF SIZING *Blake, sizer shaker screen round holes.* RESCREENED

SIZES *3/4", 1 1/2", 2 1/2", 6", 8" holes.*

PER CENT

PROPORTION AND SIZE OF WASHED COAL

DAILY OUTPUT *150*

UTILIZATION

MARKETS

FREIGHT RATES

SELLING PRICES AT MINE

COAL LAND OWNED LEASED HELD IN FEE

COST OF LAND OWNED LEASED HELD IN FEE

ADDITIONAL NOTES

~~0233~~ *0233*



0233

COAL MINE NOTES.

CONTINUED.

OPERATOR *The Scranton & Big Maddy Coal & Mining Co.* MINE *S. & B. M. C. + M. Co.*
ENTRANCE *Shaft.* NAME OF COAL BED *#6.*ELEVATION *481* THICKNESS OF COALDEPTH TO FLOOR *162* MAX. *9'* MIN. *6'* AV. *7'*ALTITUDE OF COAL *319*LOCATION OF SECTION *Cross cut 200' W of shaft. between 1st & 2nd entry.*

No.	SECTION.	In.
1	<i>Slate.</i>	
2	<i>Coal clean</i>	<i>73</i>
3	<i>Hard Blue Band.</i>	<i>1</i>
4	<i>Coal</i>	<i>18</i>
5		
6		
7		
8		
9		
10		
11		
12		
Tape		Total

SAMPLE No.

CAN No.

CONDITION

GROSS WEIGHT

TIME EXPOSED

NOT SHIPPED

NOT INCLUDED

SECTION

Feet

73"

1"

18"

6'

PHYSICAL PROPERTIES BY NUMBERS

*Blue Band 1" to 2", slate and sulphur, 18" above floor.*ROOF *Slate 18" then Ls. Ls locally on coal.*FLOOR *gray shale 6'. Sst.*DIP *N.E. 20' per mile.**Cleat N.E. - SW and N.W. - S.E.*FAULTS, ETC. *Small fault. 2' throw to W. strike N.S.*

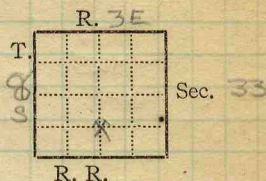
GAS

COLLECTOR *Cady & Mc Wolf* REFERENCE *N.B. 65 P 16*

DATE

0233

Mine Name or No., *No. 1 - Scranton*
 5 miles from *Marion*
 Operator, 1913 *Scranton & Big Muddy*
Coal Mining Co.
 Operator, 191



Entrance, *Shaft* Elev., *480 ±* ft. ^{above,} *sealevel*
 (below,
 Depth to bottom coal, *160* ft. Alt. *320*

SURFACE DATA.

- A. Topography, *Fairly flat: low relief* See
- B. Surficial materials. (1) Character, *Glacial drift*
 (2) Thickness, (3) Effect on mining and shaft-sinking, of former
 drainage lines, underground water strata, etc. *None known*

- 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.

E. Notes on surrounding area, See *drill record sheet,*
See Mss West Frankfort - Galatia
folio

John Wardle, Mine Manager — "Good-treatment"

Coal bed name: Local, See
 Collector, *Cady* *June 28, 1918* Survey No. *6*
 Mine, *Scranton* Co. *Williamson* Index No. *0233*
 L.—SURFACE SHEET (Geol.)

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

- (a) Relative hardness, *Upper bench hardest. In places
mine bed conspicuously friable & hard to hold*
- (b) Lustre, *Nothing unusual*
- (c) Fracture, *where friable next cleavage well developed*
- (d) Texture, See
- (6) Impurities in coal, other than bedded, 1
- (a) Kind, *Vert. streaks of sulphur, and ls nodules.*
- (b) Position and persistence, *Sulphur very local
ls nodules*
- (c) Rejected, *ls nodules* Ease of separation, *Coal about
unremovable where present* See X-1
- L. Floor: (1) Material, *Free clay - + ls -*
- (2) Thickness, *5 feet to 4" ls below*
- (3) Variation,
- (4) Note character, condition, tendency to heave, relation to undercutting commercial value. *Does not heave.*

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,

Coal: Survey No.

Mine,

Co.

Index No. 0233

Symbol

Description

Inches

3rd N. off. N.-entry
Limestone



Coal 70
Clean -

70

13 13
Coal

1
14 1/2

85 1/2

(Scale: 1 division = 3 inches).

Sample No.

Can No.

Lab. No.

Collector,

Coal: Survey No.

Mine,

Co.

Index No. 0233

- K6 Along the 7th Wolfman Sentry, there is an area 25 x 100 ft in dimensions in which the coal contains about 10% of limestone concretions or pebblications. These are found above the blue band. The material is of a brownish color and may be pyritiferous.
- H. The limestone caprock in places immediately over the coal. Elsewhere it may be as much as possibly more than 800 feet above the coal. The lower surface of the ls is irregular which, probably for part of the variation in the interval between the coal and the limestone. The ls is very firm and solid and makes an excellent roof. Difficult to handle, however, if entries need to be raised. Bottom arrangements somewhat hampered by limestone roof near to coal.
- I Immediate roof very variable. So forms the roof over part of the mine, possibly over less than $\frac{1}{5}$ of the entries & rooms seen. At least $\frac{2}{5}$ of the mine has a gray shale roof and the remainder is black shale. The black shale commonly ^{is not very hard} underlies the limestone, apparently except where it lies directly upon the coal. Even where the black shale does not overlie the main coal bed it contains at the base a thin layer of coal which connects with the main bed. Accordingly it appears that the gray shale was in part deposited before the upper layer of coal which is associated with the black shale.

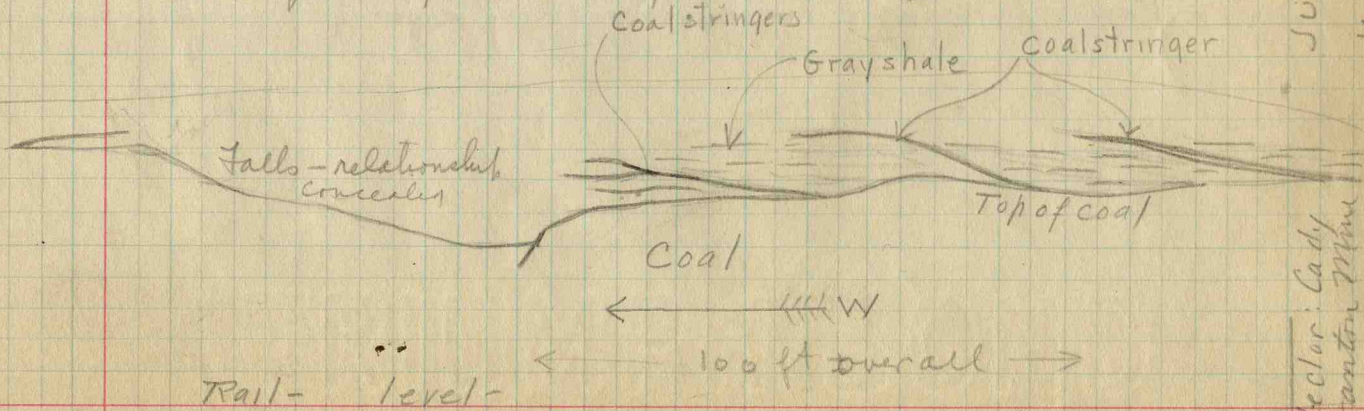
Collector. Cady June 28, 1918 Coal No 6
 Mine - Scranton
 Extra Sheet 1 Williamson Co. Index No 0233

I could Places were seen where the upper layers of the coal fingered off into the mass of the shale. Such masses of gray shale between the shale + coal are commonly full of slips and slick surfaces and the shale and coal in places are faulted.

Collector: Cady June 28, 1918 Coal No. 6
Mine: Scranton
Extra No 2 Williamson Co Index No 0233

Showing relationship of gray shale and coal stringers - along N side of main west entry near bottom

appears that the gray shale was deposited in a depression in the peat surface while the peat was still being deposited in the vicinity and that thin bodies of peat encroached upon the shale. In this locality the gray shale is probably overlain by black shale.



June 28, 1918

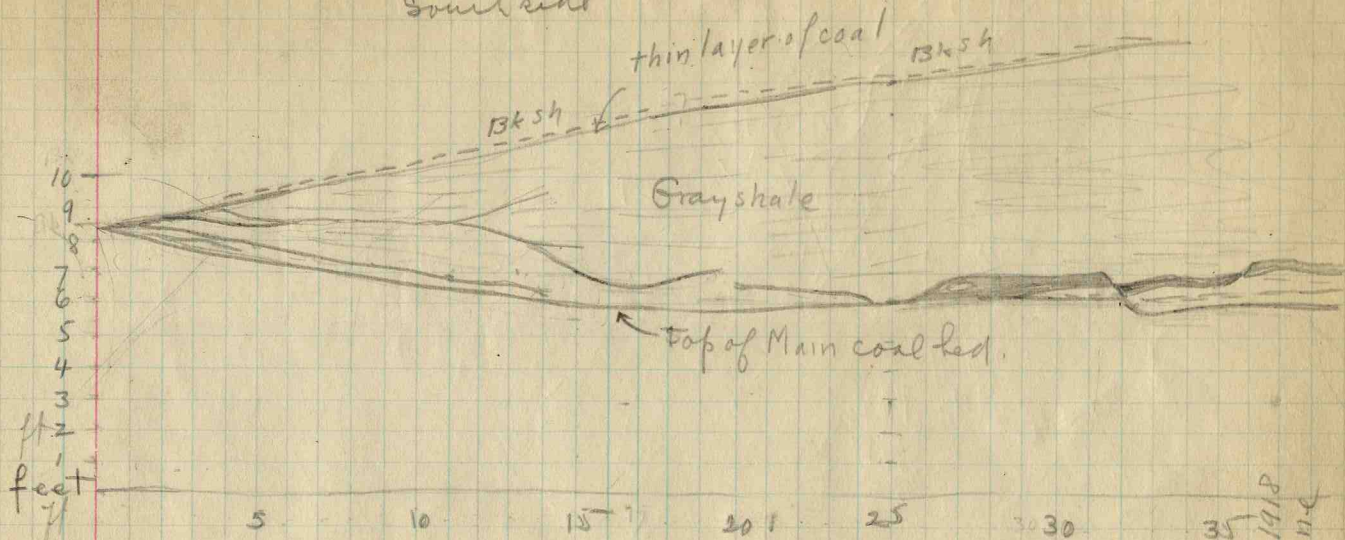
Williamson Index No 0233

Collector: Cady
Scranton Mine
Ex Tra #3

FOODS
STANDARD METHODS

Main W - near bottom

south side



Cady June 28, 1918
Sebanston Mine

Extra #4



Condition along south beginning at turn from bottom

Extra #1
Scranton Mine

0233

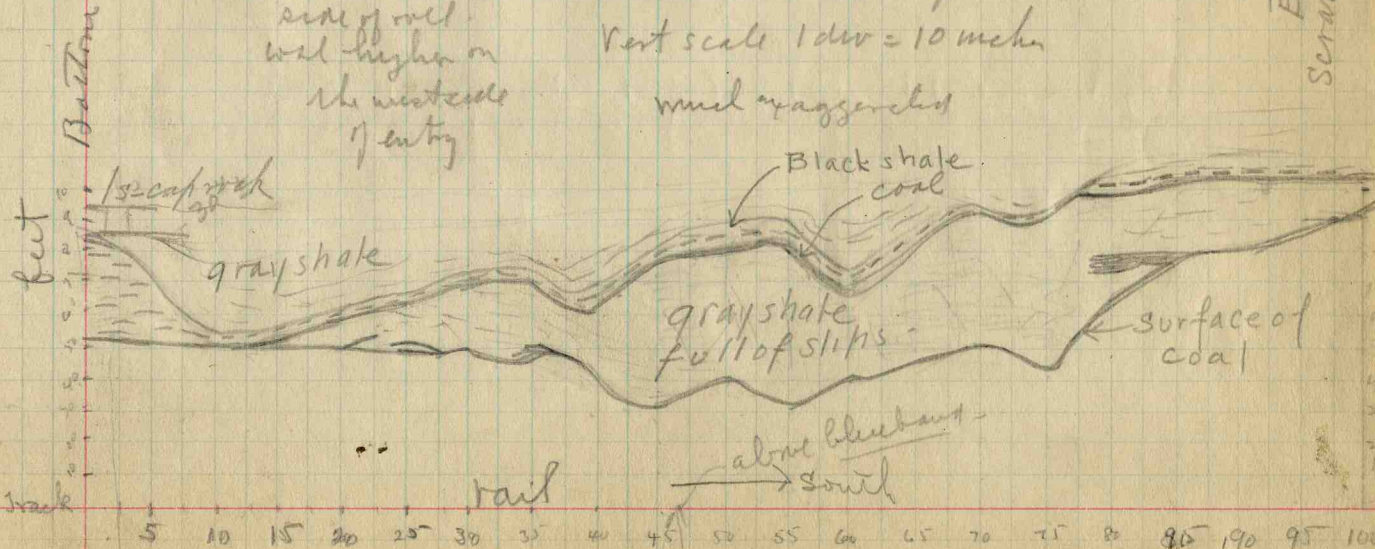
View of east side of entry

Hor scale 2 div = 5 paces

Vert scale 1 div = 10 inches

Section shows
side of wall
wall higher on
the west side
of entry

mineral ragged chert

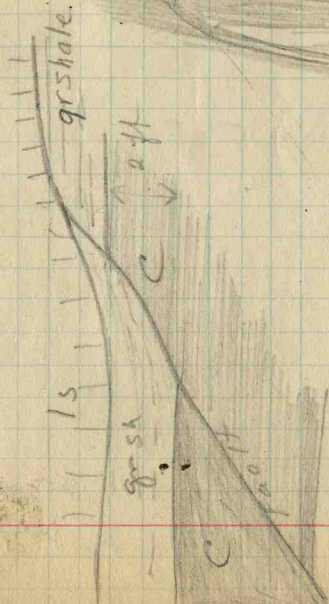


along blue band
→ South

Parallel 10" ... paces



Seranton
Main Northentry



Fault, showing how
does not pass through
the limestone

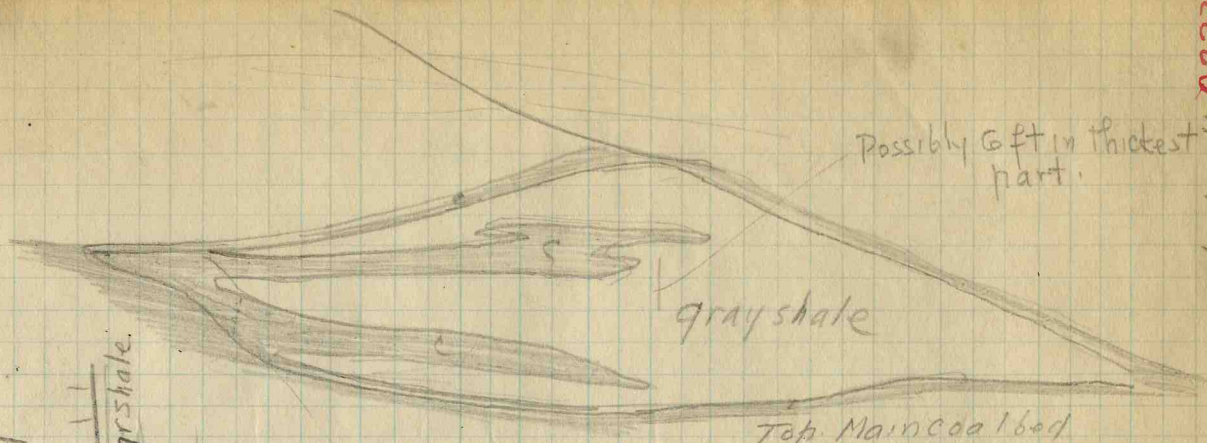
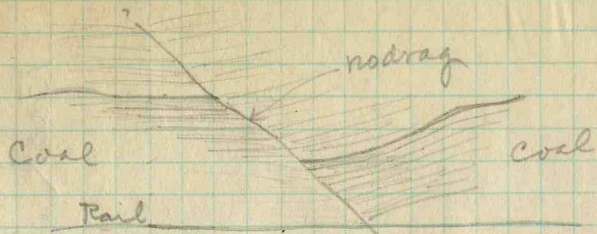


Fig. showing
relationships in
a roll.

Cady - June 28 1918
Extra 6.
Seranton

Scranton



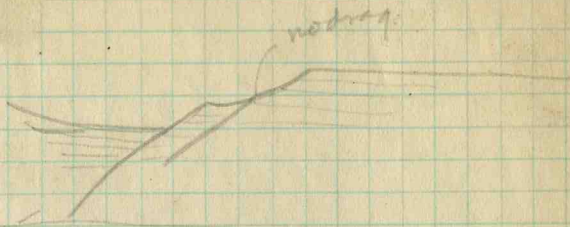
Bearing NNW

along Main West 200 ft W of Nentry

Small faults due to
subsidence

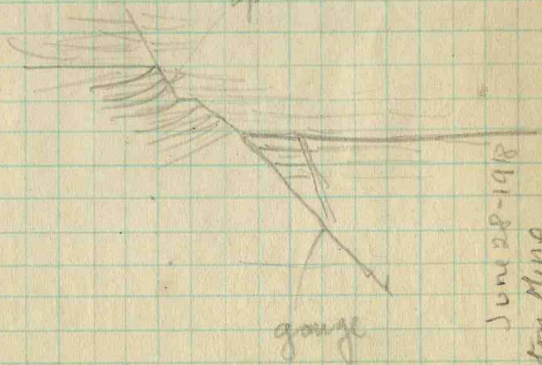
::

Other (N) side city



N side W city 200 ft W of above

upturned - coal



Cady June 28-1918
Scranton Mine
Extra 7

0233

Index No



I In places in this mine there appears to be gray shale between the black slate and limestone. The relationship is not perfectly clear but it seems probable that this upper gray shale is simply the upper continuation of the black with less organic material there being evident no stratigraphic break between the two as between the black shale and the underlying gray shale. It may be the case that in parts of the mine where the roof is gray shale - that appears even bedded without slips that this represents a less carbonaceous area of black slate. In the opinion of the mine manager, however, that black slate lies between gr. sh. & l.

Collector. Cady Jun 28, 1918. Coal No 6
Scranton & Big Muddy Mfg. Co. Scranton Mine
X-sheet — Co. Williamson. Index No 0233

K The thickness of the coal is quite variable. According to Supt. the coal is thicker under the gray shale than under the black shale and limestone. It appears however, from examination of the mine that this does not always hold. The coal does however, always tend to thin out beneath one of the shale rolls - which may cut down into the coal a distance of three feet - as shown in sketches. Commonly these rolls are in swales. The coal shelf tending to dip toward the ~~s~~ axis of the roll.

Collector Cady June 28, 1918 Coal No 6
Scranton Mine
Extra sheet Williamson, Co Index No 0233

- 1) Manner: (1) As thin leaves in purely amorphous state but segregated in lens or ball-like masses - Not solid.
- (2) As $\frac{1}{4}$ to $\frac{1}{8}$ " fragments of solid sulphur espec. between pinner and middle benches. No piece larger than $\frac{1}{2}$ " seen - This kind of sulphur unimportant
3. Possibly with ls in nodules called "red rock" see sample -

2) Size: First kind may affect coal 2x6 or 8x6 or 8
 Commercially smaller... Solid pyrite very thin plates
 3rd - ls beds - 2ft long 6" by 6" mineral - Part of ls

3 Measurements

Location in mine	C	P	C	P	C	P	C	P	Coal	Pyrite x3	P	% P
1 34N. 7th W, off S	71	$\frac{1}{4}$	65	$\frac{1}{4}$	71	0	73	$\frac{1}{2}$	71	$\frac{1}{10}$		<1
2 R. 6, 2nd N, 7W, off S	82	0	81	0	79	0	77	$\frac{1}{2}$	89	0		<1
3 4S, 7th W off S	88	0	90	0	85	$\frac{1}{8}$	93	0				<1
4 3rd N. off N	79	$\frac{1}{8}$	77	$\frac{1}{8}$	90	$\frac{1}{10}$	76	$\frac{1}{10}$				<1
5 End of 3rd N.	84	$\frac{1}{8}$	81	2	79	0	76	0	80	$\frac{1}{4}$		<1
6 2nd N off St South	75	0	74	0	74	$\frac{1}{10}$	74	0				<1

- Notes #1 - 1" of sulphur in leaves - NG.
 #2 (4) $\frac{1}{2}$ " solid pyrite
 #4 Thin S - $\frac{1}{8}$ - $\frac{1}{10}$ at parting below roof coal general
 5 (2) Leaf sulphur

+ Sample C-13-14 - Sample from refuse S + S leaves
 C13-15 7th W off S; ls and S? / C13-16 - Same as No 2 above. Sim
 ls conc. in roof. C13-17 2nd N, st N, off E. "Black jack"
 C13-18 - 7th W off S - ls nod in coal same as C13-15

Collector Cadby Date June 28/18 Coal No 6
 Company Scranton & Big Muddy Mining Co
 Mine Scranton (Not)
 Pyrite sheet (1) Williamson Co. Index No 0233

(7) In refuse pile the thrown from car mainly Pyrite in lumps. - of small % by weight. A streak of thin sulphur and coal 1 to 2" thick will have no appreciable effect on the weight of a mess of coal. There is a little plate pyrite. A few pieces 2" thick which will represent 5060% by weight of the entire mess. The amount of this material is negligible. The pile represents 1 mes. discard possibly 20-25 tons - 10-15% S by weight.

10- Pyrite in insufficient quantity - to justify belief in possibility of production -

Collector Cady Date June 28, 18 Coal No 6
 Company Scranton & Big Muddy Mining Co
 Mine Scranton #1
 Pyrite sheet (2) Williamson Co. Index No 0233