MOORE'S MODERN METHODS

Form 180

W. Virginia CC

487

NI 169

Sec. 5

T. 9 N. S.

R. 3 E. W.

Index No.

Mine originally operated by: (1) West Virginia Coal Co.

Date 1907

Original name or number: #1

Illinois Coal Report p.

LATER OPERATORS

	Date	Operator	Name or No.
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			

• Also owners #See ownership sheet

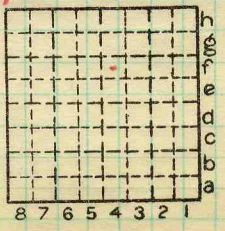
Railroad, Wagon, Idle, Abandoned Before 1930

Mo•P• SHIPPING MINE
IDENTIFICATION

County No. 487 Coal No. ☐ 6

Quad. W. Frankfort Part

County Williamson



Sec. 5

T. 9 N. S.

R. 3 E. W.

Index No. 0705 f4

COAL MINE OPERATOR

(3106–21531) 3

(Sheets) COAL PRODUCTION (Sheet)

Period						Tons					
Mo.	Day	Year	Mo.	Day	Year						

SUMMARIES

No.	to	No.						

Railroad, Wagon, Idle, Abandoned

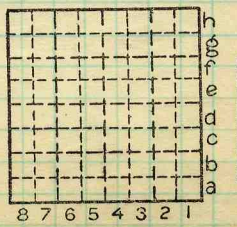
IDENTIFICATION

County No. 487 Coal No.

W. Frankfort

Quad. Part

County Williamson



Sec. 5

T. 9 N. S.

R. 3 E. W.

Index No. 0705 f4

COAL MINE—PRODUCTION

(34217—1M—3-30) 7

MOORE'S MODERN METHODS

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) 491 ft.

By G.H.C. NB79 p8 Data sheet

DEPTH

Authority To coal ft.

Authority Rail to rail ft.

Top of coal above rail. (Est. Rule) ft.

To coal 108 ft.

ALTITUDE OF TOP OF COAL

By estimated data

By instrumental data 383 ft.

Thickness

Max. in. Min. in. Aver. 78 in.

GEOLOGICAL DATA

Mine notes, date Brief

Coop No. 169 Pyr. inv. Coal Ash inv.

CHEMICAL DATA

Analyses Face	U. I. 12772-4	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:—

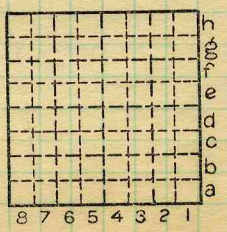
Railroad, Wagon, Idle, Abandoned

IDENTIFICATION

County No. 487 Coal No. ☐ 6

Quad. W. Frankfort Part

County Williamson



Sec. 5

T. 9 N. S.

R. 3 E. W.

Index No. 0705 f4

COAL MINE LOCATION AND DATA

(34215—1M—3-30) 7

Town, Marion
Local Authority, McHlpin, W.H. (M.Mg

Surface alt., ft.
Depth to coal, 108 ft.
Alt. top coal, ft.
Thickness: Av. 84 in.
Max. 96 in., Min. 66 in.

Level: Auth.,

Method,

R. R., Mo. Pac.

Location: authority, Mine map

R. 3E
T. 9S Sec. 5
(Show R. R.)

Operator | Mine Name or No.

19 21 West Virginia Coal Co. | West Virginia

Successor to
Date
Succeeded by
Date
Succeeded by
Date

PRODUCTION.

19											U. S. No.
	1700 - 1800 ton daily										

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

Examined by Netzeband Ref. Loose leaf

Coal bed name: Local
County Williamson
Survey No. 6
Index No. 0705.76

K.—ACTIVE SHIPPING OR ~~LOCAL~~ COAL MINE.

(9019-1M-7-18)

Town, Marion
Local Authority,

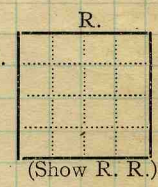
Level: Auth.,

Method,

R. R.,

Location: authority,

Surface alt., ft.
Depth to coal, 108 ft.
Alt. top coal, ft.
Thickness: Av. 6 6 in.
Max. 102 in., Min. 72 in.



Operator | Mine Name or No.

19 West Virginia Coal Co

Successor to
Date
Succeeded by
Date
Succeeded by
Date

PRODUCTION.

	U. S. No.
19	

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

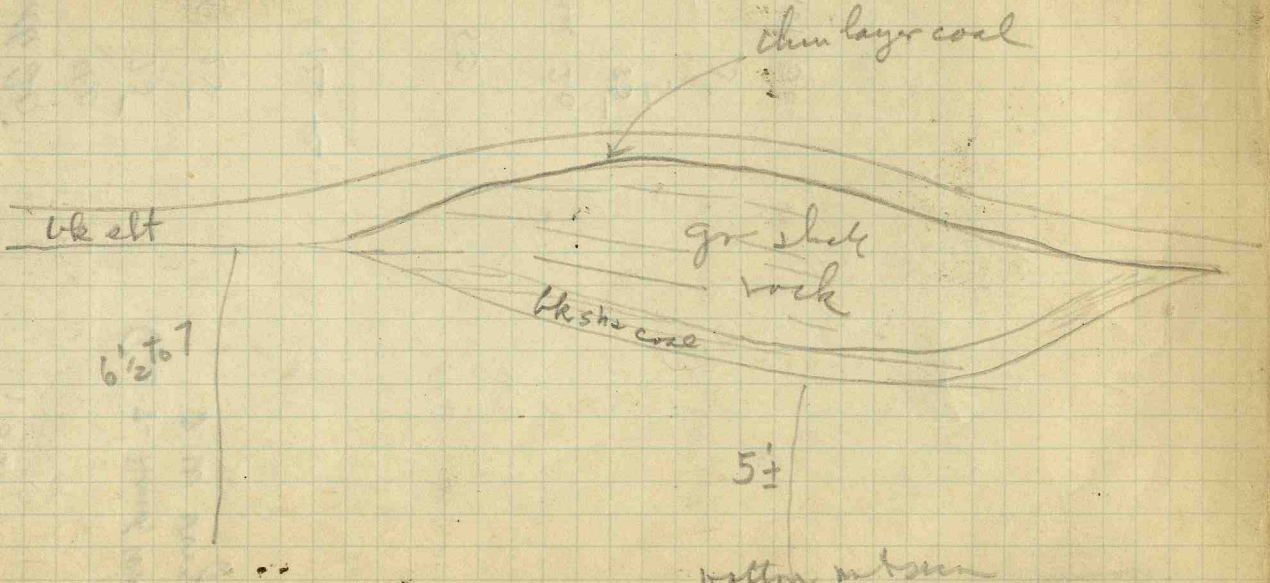
Examined by Ref.

Coal bed name: Local
County

Survey No.
Index No.

K.—ACTIVE SHIPPING OR LOCAL COAL MINE.

Heart horizon



Postage 15
Carbide 5
Lamp needle 20
Felin 40
Knife 75
Sandwich 25

Postage · 12 +2

June 27
Blsfst 50
Carbide Can 20
Carbide 25
Rug 5
Orange 5
To Scranton rd 30

84
106-8

Pic 7- Head wall
2 W vorg

COAL MINE NOTES.

COUNTY Williamson TOWN Marion. MAP No. 0705

T. 95 R. 3E S. 5

OPERATOR West Virginia Coal Co.

OFFICE Marion

MINE West Virginia.

TIPPLE

ENGINES Direct Acting.

BOILERS

DRUM Conical.

SHAFT CAGE made at Belleville.

HAULAGE

CARS

VENTILATION

DRAINAGE

SPRINKLING

WORKING SYSTEM

MINING METHODS

Machine mined. Chain machine

SIZE OF ENTRIES—MAIN	CROSS	ROOM	NECK
SIZE OF PILLARS—MAIN	CROSS	ROOM	
SHAFT	CHAIN	BARRIER	
AMOUNT OF TIMBERING		SIZE	

PROPORTION OF COAL UTILIZED

AMOUNT AND CHARACTER OF WASTE

ACREAGE OF COAL MINED

ACREAGE OF COAL REMAINING

PROPORTION OF MINE RUN AND SCREENED COAL

METHOD OF SIZING RESCREENED

SIZES

PER CENT

PROPORTION AND SIZE OF WASHED COAL

DAILY OUTPUT

UTILIZATION

MARKETS

FREIGHT RATES

SELLING PRICES AT MINE

0705

COAL LAND OWNED	LEASED	HELD IN FEE
COST OF LAND OWNED	LEASED	HELD IN FEE

ADDITIONAL NOTES

COAL MINE NOTES.
CONTINUED.

OPERATOR West Virginia Coal Co. MINE West Virginia.

ENTRANCE Shaft NAME OF COAL BED #6

ELEVATION 491 THICKNESS OF COAL

DEPTH TO FLOOR 116 MAX. MIN. AV. 8'

ALTITUDE OF COAL 375

LOCATION OF SECTION

No.	SECTION.	In.
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
	Tape Total	

	SECTION Feet
SAMPLE No.	
CAN No.	
CONDITION	
GROSS WEIGHT	
TIME EXPOSED	
NOT SHIPPED	
NOT INCLUDED	

PHYSICAL PROPERTIES BY NUMBERS

ROOF

FLOOR

DIP N.E.

FAULTS, ETC.

GAS

COLLECTOR Gady REFERENCE HB79 (C21+G3) DATE 0705

Mine Name or No., No 1

1 mile S NE from Marion

Operator, 1918 West Virginia Coal Co

Operator, 191

R. 3E

T. 9 S

Sec. 5

R. R. (Mo. Pa

Entrance, Shaft Elev., 485± ft. { above, Sealevel / ~~below~~,

Depth to bottom coal, 108 ft. Alt. 377

SURFACE DATA.

A. Topography, Gently rolling. No effect on Mining See

B. Surficial materials. (1) Character, Glacial till & loess 5-10'±

(2) Thickness, 5-10'± (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc. None known

See

C. Outcrops, No (1) Character, See

(2) Structure, See

(3) Fossil horizons, See

Collection No.,

(4) Evidences of subsidence, See

D. Note collection of mine maps, drill records and shaft logs.

See drill record sheet,

E. Notes on surrounding area,

See

Coal bed name: Local, 7 Survey No. 6

Collector, Cady June 27 1918.

Mine, W. Virginia Co. Williamson Index No. 0705

L.—SURFACE SHEET (Geol.)

F. Thickness of rock above bed worked,
(1) Important variations, None

See

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

See

(1) Position, Between Coal + ls caprock
(2) Character, - Gray shale or soapstone
(3) Persistence, Not persistent (⅓ mine? - my observation
(4) Other workable coal beds,

See

H. Cap rock, Gerlyna limestone
(1) Thickness, Reported 30' - doubtful
(2) Height above coal, 0 — >5

See X-1,3

I. Immediate roof, ① Blk shale or ② gray shale (rock) or ls.
(1) Thickness, ① = 3' or less ② = 5' or less (2) Contact with coal,
Coal tends to hold to blk slate
(3) Horizontal variation, Considerable -

See X-1,2

J. Draw slate. (1) Thickness, None (2) Contacts

(3) Persistence, None

K. Coal bed: Max. 108-9 Min. 60± Av. 78 inches
(1) Benches, 3.
(a) Position, Upper 12 to 18, Lower 18" to 22"
Middle - rest of bed
(b) Persistence, - Complete

See

(2) Bedded impurities, kind, position in benches, persistence, ease of separation. Some thin gray shale bkgs rarely ½" thick. Thin pyrite lenses rarely over ¼" Coal fairly clean

See

(3) Irregularities in continuity of bed (due to deposition, erosion, or movement, - a few slips in roof and coal

See

(a) Effect on mining, - Little or none

See

SECTION				
Ft.	In.	Name	Index	Sym.

Collector, Cady June 27, 1918
Mine, W. Virginia Co. Williamson
Coal: Survey No. 6
Index No. 0705

M.—UNDERGROUND SHEET (Geol.)

K. (5) Physical character of coal in benches,
(a) Relative hardness, Harder than at Henderson Wallace by relatively soft
(b) Lustre, Not unusual
(c) Fracture, " "
(d) Texture, " " See
(6) Impurities in coal, other than bedded, Few vertical seams
(a) Kind, Specks of sulphur + white lime or gypsum
(b) Position and persistence, Irregular
(c) Rejected, Only when large - not common Ease of separation,

See

L. Floor: (1) Material, fire clay
(2) Thickness, not known - though several feet Mine
(3) Variation, squeezes when clay thick

(4) Note character, condition, tendency to heave, relation to undercutting commercial value.
In parts of mine where the coal clay squeezes take place prob. due to soft floor + thicker formed by heavy limestone which is difficult to track

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, Cady June 27, 1918
Mine, W Virginia Co. Williamson
Coal: Survey No. 6
Index No. 0705

N.—UNDERGROUND SHEET (Geol.)

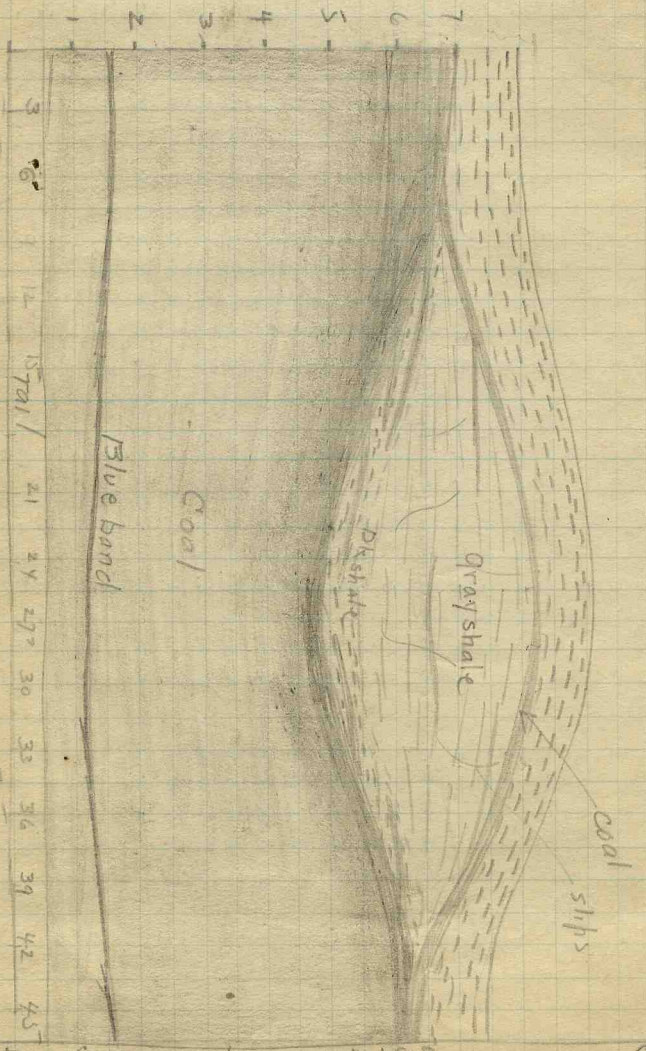
H+I Of much interest in this mine are the irregularities in the roof, which produce conditions rather difficult to handle

The normal roof of the coal is called the slate and normally runs 2 to 3 ft or less and lies between the coal & the limestone. In places the limestone rests directly on the coal - the shale being cut at such places the coal is rather thinner than elsewhere. This is maybe a good top and the coal is pulled to the top. Elsewhere the coal is left on the top. In places gray shale forms the roof wedging under black shale which is commonly present above the gray shale. Where the gray shale is clean & without coal partings it holds up pretty well - but just as well as the slate Commonly the coal is thicker under the gray shale than elsewhere. One measurement of about 9 feet was made at such place.

Then there are rolls: These resemble the rolls in the Danville region. In these a layer of gray shale commonly with 6-8" of fat at the base lies in the upper part of the coal, separated from the true bed roof but a stringer of coal at such places the coal tongues into the lens at the sides and the entire mass seems to be cut by stringers of coal The coal at the thickest part of the lens may thin down to 5 feet or less for a very short distance (1-5 feet) The edges of the lens may be marked by slips and slips in roof are hard to hold.

Collector Cady June 27, 1918 Survey No 6
Mine W. Virginia
X-Extra sheet 1 Co. Williamson Index No 0705

I a sketch of one of the rocks is shown below



Collector Cady June 27 1918 Coal No 6
W-Virginia Mine
X Extra 2 Co Williamson Index No 0705

H In one place in mine where fall occurs it was evident that the limestone caprock contained a cave 1 foot or so high. Fall seems to have been due to breaking away of lower bench of limestone

This is a very interesting mine because of its peculiarities.

Taken around by Mr Wm Wallace.

Extra 3. (Cady) June 27
W. Virginia

Index No 0705

Mine Name or No., West Virginia

mile from

Operator, 191 West Virginia Coal Co. Co. 7 5

Operator, 191

Entrance, shaft Elev., ft. { above, below,

Depth to ~~bottom~~ coal, 108 ft. Alt.

SURFACE DATA.

A. Topography, Slightly rolling See

B. Surficial materials. (1) Character, clay & till.

(2) Thickness, 30' (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc. There is 4' of quicksand between the clay & rock which gives trouble in shaft sinking

See X1

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.

Pfeiffer Herrin

See drill record sheet,

E. Notes on surrounding area,

See

Coal bed name: Local, Survey No. 6

Collector, Netzeband

Mine, W. Va. Co. Williamson Index No. 070.5.76

L.—SURFACE SHEET (Geol.)

F. Thickness of rock above bed worked, 77' at shaft.
(1) Important variations,

See

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

See

Grey shale
(1) Position, Above coal
(2) Character, Grey, sandy shale, many slips
(3) Persistence, In patches thruout mine.
(4) Other workable coal beds,

See X1

H. Cap rock, Limestone
(1) Thickness, 10-18'
(2) Height above coal, Feather edge to 6'±

See

I. Immediate roof, Black or grey shale.
(1) Thickness, (2) Contact with coal,
Feather edge to 6'±
(3) Horizontal variation, Black to grey shale - also in thickness

See X1

J. Draw slate. (1) Thickness, (2) Contacts
2 to 6"
(3) Persistence, Very little in mine

K. Coal bed: Max. 96 Min. 66 Av. 84 inches
(1) Benches, None.
(a) Position,

(b) Persistence, It is reported that it breaks in 3 benches in some places

See X1

(2) Bedded impurities, kind, position in benches, persistence, ease of separation. Blue band (¾ to 2") sticks to coal in some parts of mine. Charcoal lenses and clay partings - not persistent.

See

(3) Irregularities in continuity of bed (due to deposition, erosion, or movement, The bed is very irregular due to erosion or dop

See X1

(a) Effect on mining, Make mining difficult

See

SECTION

Ft.	In.	Name	Sym.
26		Soil	
4		Sand	
45		Sandrock	
13		Shale	
18		Limestone	
2		Bl. Slate	
7		Coal	
5		Fireclay	
		1 Dir = 10'	

Collector, Netzeband
Mine, West Virginia Co. Williamson
M.—UNDERGROUND SHEET (Geol.)

Coal: Survey No. 6
Index No. 0705:76

259693

K. (5) Physical character of Coal,

(a) Relative hardness, Coal hard for immediate vicinity Bottom coal hardest.

(b) Lustre, Top - glance & dull, middle & bottom bright.

(c) Fracture, Blocky - Good cleat but very variable

(d) Texture, Laminated. See

(6) Impurities in coal, other than bedded, kind, position, persistence, ease of separation, etc. Pyrite stringers & lenses all thru coal and in all parts of mine. Calcite or gypsum fracture fillings. Pyrite rejected wherever possible. Sticks tightly to coal.

See

L. Floor: (1) Material, Fire clay

(2) Thickness, 5' + 5' to lime boulders. Ls thought to be within another foot.

(3) Variation,

(4) Note character, condition, tendency to heave, relation to undercutting, commercial value. Grey shale, plastic when wet, heaves badly - several places lost thru heaves, used to undercut upon, value unknown.

See

(5) Clay sample No. Location,

M. Stratigraphy,

(1) Fossiliferous horizons underground, Shale + limestone - only in the west by observation.

Collection No. Location,

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

See

Collector, Metz & band

Mine, West Virginia Co. Williamson

Cola: Survey No. 6

Index No. 0705.76

N.—UNDERGROUND SHEET (Geol.)

INDEX (36713—500—7-20)

H_2 2nd & 7th East limestone comes to coal.

I_3 Coal reported to be thicker under black slate. Black slate in all parts of mine in patches. Slate featheredge to 18". Some places directly above coal, others between grey shale & limestone.

K/b Mr. McAlpin reports that the coal breaks in three benches in some parts of mine but this is rare.

B_3 In 10th West there a cave-in where a yellow clay runs in. The clay is wet and very plastic. Mr. McAlpin is of the opinion that the cave will reach the surface in time.

I_3 The grey shale is very irregular and appears to occur in lenses between the coal and black shale in some parts of the mine. Its characteristic appearance in lenses is apparently due to deposition as in many places thin fingers of coal are found in the shale and in some places between the grey shale and the black shale which overlies it.

The black shale is hard, brittle and fissil

Collector Natzaband Index No. 0705:76

X- / EXTRA NO. / County Williamson

NDEX

Collector Netzaband
X- 2

EXTRA NO. 2

Index No. 0705.76
County Williamson

INDEX (36713—500—7-20)

K3 The surface of the coal, both top & bottom is very irregular, having many small hills and hollows in it. The irregularities are apparently due to deposition for there are very few slips in the shale and these are small, due to settling. The irregularities are very local, but occur in all parts of the mine.

(a) Wherever slips occur in the roof timbering is required as the grey shale is very treacherous and comes down without warning.

Collector Natzeband Index No. 0705.76
X- 3 EXTRA NO. 3 County Williamson

Operator, West Virginia Coal Co. Date June 20, 1921
Mine, W. Va. Mine Sec. 5 T. 9S R. 3E
Located, 4 N.E. miles from Marion
Location in mine, 2nd E. off 6th N. #7 Room

GRAPHIC SECTION In.		No.	DESCRIPTION OF SECTION (AT POINT SAMPLED) No.	(Note character and thickness of roof)	Inches
				Shale	
10		1	1	Coal Roof	6-10"
			2	Coal, pyrite stringers	38
			3	Pyrite	1/4
			4	Coal	7
			5	Shale	1/4
38		2	6	Coal, pyrite stringers	15
			7	BB shale	1
			8	Coal	15
				Tape 74"	
1/4		3			
7		4			
1/4		5			
15		6			
1/4		7			
15		8			
				(Note character and thickness of floor)	
				Total thickness of coal.	84

Condition, As Mined Time, hr. min.
Wt. Gross, 25 lbs. Net, lbs.
What Nos. shipped by Co.?

Excluded from sample: No. 1, 7
Sample represents 73 in. tons.
Impurities? How do they occur?

Sample No. 1 Can No. V-21-57 Lab. No. 12772
Collector, Wilson Coal: Survey No. 6
Mine, West Virginia Co. Williamson Index No. 0705.76

R.—COAL SAMPLE SHEET.

Operator, West Virginia Coal Co. Date June 20, 1921
Mine, W. Va. Sec. 5 T. 9 S R. 3 E
Located, 4 miles from Marion
Location in mine, 2nd S. off 2nd E. Room #19

GRAPHIC SECTION In.	No.	DESCRIPTION OF SECTION (AT POINT SAMPLED) No. (Note character and thickness of roof)	Inches
		L. S. Rep'td. 10-18'	
	1	1 Coal pyrite lenses + stringers	52
1		2 Pyrite	1/4
		3 Coal	18
		4 BB shale + charcoal	2
		5 Coal	17
		Tape 85'	
52	1		
1/4	2		
		(Note character and thickness of floor)	
18	3	Total thickness of coal.	85
2	4	Condition, As Mined Time, hr. min.	
		Wt. Gross, 25 lbs. Net, lbs.	
	5	What Nos. shipped by Co.? 1, 2, 3, 5.	
		Excluded from sample: No. 4	
		Sample represents 83 in. tons.	
		Impurities? How do they occur?	

Sample No. 2 Can No. N-21-58 Lab. No. 12773
Collector, Wilson Coal: Survey No. 6
Mine, West Virginia Co. Williamson Index No. 0705:76
R.—COAL SAMPLE SHEET.

MOORE'S MODERN METHODS

Operator, West Virginia Coal Co. Date June 20 1921
Mine, W. Va. Sec. 5 T. 9S R. 3E.
Located, 4 miles from Marion
Location in mine, Face of 10th W.

GRAPHIC SECTION In.		No.	DESCRIPTION OF SECTION (AT POINT SAMPLED) No. (Note character and thickness of roof)	Inches
			Shale 3-4' to fill	
14		1	1. Coal Roof 14"	
			2 Coal,	11 1/4
			3 Charcoal	
			4 Coal	18 1/2
11		2	5 Charcoal	
			6 Coal	15 1/4
1/4		3	7 Pyrite	
			8 Coal	18
18		4	9 BP shale	1
			10 Coal	1
1/2		5	11 Pyrite	1/4
			12 Coal	12
15		6	13 Pyrite	1/4
			14 Coal	2
1/4		7	78" tape	
18		8		
1/4		9	(Note character and thickness of floor)	
1/4		10	Total thickness of coal.	92
1/4		11		
12		12	Condition, F/S Mined Time, hr. min.	
			Wt. Gross, 25 lbs. Net, lbs.	
1/2		13	What Nos. shipped by Co.?	
		14		
			Excluded from sample: No. 1, 9	
			Sample represents 77 in. tons.	
			Impurities? How do they occur?	

Sample No. 3 Can No. N-21-59 Lab. No. 12774
Collector, Wilson Coal: Survey No. 6
Mine, West Virginia Co. Williamson Index No. 0705.76
R.—COAL SAMPLE SHEET.

Pyrite
Geological occurrence

1) Manner: ① Pyrite is found mostly in thin lenses 1/4" and thinner and in vertical streaks. and as intimate mixture of coal & pyrite

② Very locally in mine sulphur lenses up to 3" thick are found in top coal and roof - Only seen along one entry for not over 50 feet.

③ Also as streaks or vein fill in septarian boulders in a few places.

2. Size of masses. Streaks (1) rarely over 6" to 1/4" usually 1/2" x 2" - 3". Impregnated coal + bright sulphur - effort 1" ± pyrite commonly Could not be recovered.

(2) Sulphur balls weighing 50 - 100 lbs - 70% sulphur. Only about 6-10 seen Unimportant because small quantity

(4) Streaks in septarian boulder. Sulphur not over 10" thick. Mud calcite. Possibly impregnated with pyrite

3 Measurements

Location	1 C	1 P	2 C	2 P	3 C	3 P	4 C	4 P	5 C	5 P	6 C	6 P	P x3	P %
1 5N off 2nd E	7	4	0		7	6	0		7	9 1/8	7	7 1/8	6	8 0		<1
2 End 5 North	7	7	0		7	0	0		8	0	0		8	2 0	6	0 1/8	7	9 0		<1
3 Extreme E (2nd E)	7	5 1/8			7	9	0		8	1	0		8	7 0	7	7 1				<1
4 Main S (end)	7	2	0	6 2 1/2	6	9	0		6	9	0		6	3 1/8	6	0 1/2				<1
5 Extreme W	7	2 1/4	1	5	0	8	0	0	7	6	0		7	5	0	7	7	0		<1

Notes. 1. Few bright faces sulphur
2 " thin lenses + bright fracs.
3 One S mass with mud fine S.

Collector Cady June 27 Coal No 6
Co: W. Virginia Coal Co
Mine No 1 Pyrite #1 Co: Williamson Index No 0705

Sample No	Location	Description
C18-8	Bottom	S-from cars
C18-9	2nd E 200 yd from Main S.	Sulphur boulder.
C18-10	5N off 2nd E	S-spangle Bright S
C18-11	End 4 2nd E	" " "
C18-12	End of Main S	Sulphur lens ½ inch
C18-13	Extreme West	Trace of concretions.
C18-		

7 Pyrite rarely rejected except few concretions from roof

8 Percent of pyritous concretions = 70-80%

9. Pyrite recoverable probably negligible doubt if a mine car load a month

This mine is little if any better than Henderson-Wallace mine

Cady
W. Virginia Coal Co
Pyrite #2

Coal No 6
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