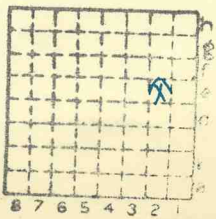
Form 180

Keystone Big Muddy CC

418



Sec. 35

T. 8 ~~N.~~ S.

R. 3 E. ~~W.~~

Index No.

ISGS
MI#152

Mine originally operated by: (1) Keystone Big Muddy Coal Co.

Date
1908

Original name or number:
Illinois Coal Report 1908 p.

LATER OPERATORS

	Date	Operator	Name or No.
2	1918	Cameron Coal Co.	
3	1925	Wall Coal Co.	
4	1928	Cameron Coal Co.	
5	1929	Illinois Higrade Coal Co.	
6			
7			
8			
9			
10			
11			
12			
13			
14			

* Also owners #See ownership sheet

Railroad, Wagon, Idle, Abandoned 1930

Marion & Eastern R.R.

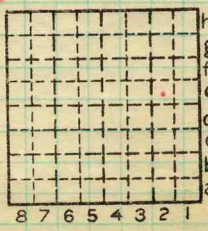
SHIPPING MINE

IDENTIFICATION

County No. 418 Coal No. ☐

Quad. W. Frankfort Part

County Williamson



Sec. 35

T. 8 N. S.

R. 3 E. W.

Index No. 0235 e2

COAL MINE OPERATOR

(3106–21531) 3

(Sheets) COAL PRODUCTION (Sheet)

Period Mo. Day Year	Mo. Day Year	Tons

Late 1931-36

SUMMARIES		
No. to No. 1908-1930	1 352 822	

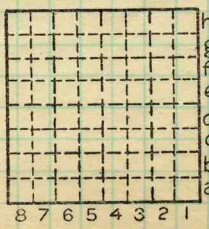
Railroad, Wagon, Idle, Abandoned

IDENTIFICATION

County No. 418 Coal No.

Quad. Part

County W. Frankfort Williamson



Sec. 35

T. 8 N. S.

R. 3 E. W.

Index No. 0235 e2

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) 507 ft.
By G.H.C. NB88 p.20 Data sheet

DEPTH

Authority	To coal	ft.
Authority	Rail to rail	ft.
Top of coal above rail.	(Est. Rule)	ft.
	To coal	242 ft.

ALTITUDE OF TOP OF COAL

By estimated data
By instrumental data 265 ft.

Thickness

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

GEOLOGICAL DATA

Mine notes, date

Coop No. 152 Pyr. inv. Coal Ash inv.

CHEMICAL DATA

Analyses Face	U. I.	B. M. 12769-71	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

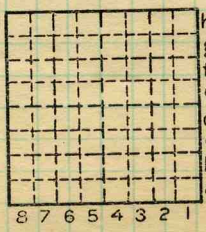
Misc. tests: Coking. Cleaning Boiler

Published descriptions:— B62 or Sup.

Railroad, Wagon, Idle, Abandoned

IDENTIFICATION

County No. 418 Coal No. 6
☐ Part
Quad. W. Frankfort
County Williamson



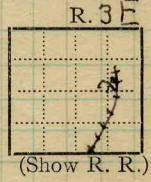
Sec. 35
T. 8 N. S.
R. 3 E. W.
Index No. 0235 e2

COAL MINE LOCATION AND DATA

(34215—1M—3-30) 7

Town, Pittsburg 507 Surface alt., 507 ft.
Local Authority, Coal Bros. 242 Depth to coal, 241½ ft.
F.W. Coal Mgrs. 265 Alt. top coal, 265½ ft.
Level: Auth., Cadys N.B. 88 p. 20 Thickness: Av. 78 in.
Max. 84 in., Min. in.

Method,
R. R., Marion & Eastern / Eldorado, Marion & S.W. R.R.



Location: authority, Cady's N.B. 88, p. 20. West Frankfort Quad.

Operator GEN'L COAL REPT. 4/18 Mine Name or No.

19 17 Cameron Coal Co. Keystone
(Coal Age Sept. 29, '17)

Successor to Keystone Big Muddy Coal & Coke Co. Keystone
Date
Succeeded by ~~Marion & Pittsburg Coal Co~~ No. 2
Date '18. (Insp.) Camer. Coal Co. survey are present owners.
Succeeded by Wall Coal Mining Co Keystone.
Date Dec. 1924
Leased Mine PRODUCTION. Coal Age Dec. 4, 1924

		U. S. No.
19	About 500T.	Q.
	Cameron Coal Co Keystone	
	Coal Cat '26	1930 #7
1929	Illinois High Grade Coal Co	

Geol. Notes? Yes Coop. No. Coal secs? Partial log
Analyses No. 12769-70-71 7

Examined by Ref.

Coal bed name: Local #6 Survey No. 6
County Williamson Index No. 0235.76

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

(P5628–500) 2

Town, Pittsburg
Local Authority, Cool Bros
F.W. Cool. Mgr. Cool Bros.
Level: Auth., 1

Surface alt., ft.
Depth to coal, 248-250 ft.
Alt. top coal, ft.
Thickness: Av. 78" in.
Max. 84 in., Min. in.

Method,

R. R., Marion & Eastern

Location: authority, See WestFrankfort quad

R. 3E
T. 8 S
Sec. 35
(Show R. R.)

Operator	Mine Name or No.
19 Cameron Coal Co	Keystone

Successor to
Date
Succeeded by
Date
Succeeded by
Date

PRODUCTION.

	U. S. No.
1918 - about 500 tons	

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

Examined by Ref.

Coal bed name: Local
County Williamson

Survey No. 6
Index No. 0235

K.—ACTIVE SHIPPING OR LOCAL COAL MINE.

COAL MINE NOTES.

COUNTY Williamson TOWN MAP No. 0335 0235

T. 8S. R. 3E S. 35 N.E. 1/4

OPERATOR Keystone Big Muddy Coal + Coke Co.

OFFICE Pittston Pa.

MINE Keystone.

TIPPLE

ENGINES

BOILERS

DRUM

SHAFT CAGE Eagle Iron Co.

HAULAGE Mules.

CARS 2,65 tons

VENTILATION Steam Fan

DRAINAGE Steam Pump.

SPRINKLING

WORKING SYSTEM

MINING METHODS

Sullivan pick machines. undercut.

SIZE OF ENTRIES—MAIN CROSS ROOM 20 NECK 10'

SIZE OF PILLARS—MAIN 30 CROSS ROOM 15

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 Screen RESCREENED

SIZES 2", 2½", 3", 4", 6", 8", 1¼"

PER CENT

PROPORTION AND SIZE OF WASHED COAL

DAILY OUTPUT 2000 tons.

UTILIZATION

MARKETS Chicago.

FREIGHT RATES

SELLING PRICES AT MINE 0393 0235

COAL LAND OWNED LEASED HELD IN FEE

COST OF LAND OWNED LEASED HELD IN FEE

ADDITIONAL NOTES

COAL MINE NOTES.
CONTINUED

OPERATOR Keystone Big Muddy C&C. Co MINE Keystone
ENTRANCE Shaft NAME OF COAL BED #6 0235
ELEVATION 507 THICKNESS OF COAL
DEPTH TO FLOOR 247 MAX. MIN. AV. 6'-6"
ALTITUDE OF COAL 260
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
Blue Band 1/2"

ROOF Blue Clay shale 23½' with lime partings

FLOOR

DIP Very slight.
no fault.
FAULTS, ETC.

GAS

COLLECTOR Leady REFERENCE U.S.B. 88. P 18 DATE 0235
0235

Partial Log.

	Surface	12'
at 65'	Coal	0'-6"
at 100'	Dark Conq. Ls	1'
at 101'	Coal	1'-3"
at 106'-3"	Gray Ls	2'-9"
at 149	Coal	1'-0"
" 152	Gray Ls	2'-6"
" 157	Coal	2'-0"
" 168'-6"	Coal	0'-6"
" 173'	Gray Ls.	6'-0"
" 212'	Ls.	0'-6"
" 212'-6"	Coal	0'-6"
" 213	Ls.	2'-0"
" 215	Black Slate	3'-0"
" 218	Black clay shale lime partings	23'-6"
" 241'-6"	Coal	6'-0"
" 247'-6"	Fire Clay.	0'-8"
" 248'-3"	Gray Ls.	1'-6"+

0235

Mine Name or No., Keystone

8 miles from Marion 1mi from Pittsburg

Operator, 1918 Cameron Coal Co.

Operator, 191

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

Depth to ~~bottom~~ top coal, 248-250 ft. Alt.

SURFACE DATA.

A. Topography, See

B. Surficial materials. (1) Character,

(2) Thickness, (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc.

See

C. Outcrops, (1) Character, See

(2) Structure, See

(3) Fossil horizons, See

Collection No.,

(4) Evidences of subsidence, See

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

See drill record sheet,

E. Notes on surrounding area,

See

Coal bed name: Local, Survey No.

Collector, Cady

Mine, Keystone Co. Williamson Index No. 0235

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,

See

(1) Position,

(2) Character, Gray shale above coal

(3) Persistence, Reported general

(4) Other workable coal beds,

See

H. Cap rock, - Said to be 15' or so

(1) Thickness, ?

(2) Height above coal, 15'±

See

I. Immediate roof, gray shale

(1) Thickness, (2) Contact with coal,

Cement gun used to protect shale

(3) Horizontal variation,

Repl. very hard to hold See X-102

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

None

(3) Persistence,

K. Coal bed: Max. 84 Min. Av. 78" inches

(1) Benches,

(a) Position,

(b) Persistence,

See

(2) Bedded impurities, kind, position in benches, persistence, ease of separation. Coal Not seen

See

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

See

(a) Effect on mining,

See

SECTION				
Ft.	In.	Name	Index	Sym.

Collector, Cady

Mine, Keystone Co. Williamson

Coal: Survey No.

Index No. 0235

M.—UNDERGROUND SHEET (Geol.)

1. Failed to gain admittance to this mine but Mr. F.W. Cool, Mgr stated that amount of solid sulphur was small. Not much thrown off of cars. Inclined to believe that sulphur does not run over 1% However, the occurrence of rather common sulphur bands in Pittsburg mine and in the new Crab Orchard shaft shows some doubt on this estimate Capacity of mine about 500 tons as now run. Possibly will eventually get out 1000. Cool Bros. are Pennsylvania men and more or less acquainted with pyrite game. and probably would take ~~and o.~~ advantage of possibility of recovering pyrite if available in quantity.

The idea expressed that this a low sulphur coal. Have analysis showing less than 1.5%!

These people need to be handled with gloves!

C. 18-19. Pyrite picked up near tipple

Collector G.H. Cady June 29. 1918 Coal No.
Company Cameron Coal Co
Mine Keystone Pyrite sheet Williamson Co Index No 0235

Roof conditions in this mine are reported as very bad. It stood idle for several years and during that time the entries practically filled up by caves. The limestone is high above the coal – 15 feet or more and the shale has no strength when left uncovered long. Prob. the conditions more or less locally as in the Scranton mine are general here. Could not discover that there was any black slate roof. None showed on rock pile composed of material obtained from cleaning entries. The coal reported not to vary much in thickness and could not discover that the rock rolls are present. These general absence is to be concluded

Collecton G.H.Cady June 29, 1918 Coal No. 6
Co. Cameron Coal Co.
Mine Keystone
Extra sheet.

Index No. 0235

with the absence of the black shale.

Mr F W Coal Mgr. believes that ther coal is much lower in sulphur content than that from other mines in vicinity. He quoted an analyses made by Saline County Coal Co (Pierce) showing less than 1.50% S. Possibly would be interested in having mine sampled – but could not see that it would be of any special advantage to him. Did not seem very desirous of cooperating

Collector Cady June 29. 1918 Coal No 6
Co. Cameron Coal Co
Mine. Keystone
Extra sheet 2. Williamson Co. Index No 0235

Mine Name or No., Keystone

3/4 mile from Pittsburg

Operator, 1921 Cameron Coal Co. 8S

Operator, 1925 Leased by Wall Coaling Co Nov. 1924

R. 3E

T. Sec. 35

R. R.

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

Depth to ~~bottom~~ coal, 244 ft. Alt.

SURFACE DATA.

A. Topography, Rolling See

B. Surficial materials. (1) Character, Clayey

Reptd. 11-12' thick

(2) Thickness, (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc.

See

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.

Elev.: See Engineer.

G. N. Pfeiffer, Consult. Eng., Herrin

See drill record sheet,

E. Notes on surrounding area,

See

Coal bed name: Local, Survey No. 6

Collector, Wilson

Mine, Keystone Co. Williamson Index No. 0235.75

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,
Bad Roof of "White top" Dr. Slate See X 1
(1) Position, Just over coal
(2) Character, Contains joints – See next sheet-H2C.
(3) Persistence, Thruout mine
(4) Other workable coal beds, Two smaller seams reptd. above #6. See

H. Cap rock, L.S. Is not seen in this
(1) Thickness, mine, but in mines 1mi
(2) Height above coal, south & 1mi West.
Reptd. 18" thick See next sheet-H2C

I. Immediate roof, Draw slate
(1) Thickness, 1-20" (2) Contact with coal,
Regular; loose,
(3) Horizontal variation,
See next sheet H2C

J. Draw slate. (1) Thickness, 1-20" (2) Contacts

(3) Persistence,

K. Coal bed: Max. 84 Min. 74 Av. 76 inches
(1) Benches, None defined
(a) Position,

(b) Persistence, All next sheet-H2C
See

(2) Bedded impurities, kind, position in benches, persistence, ease of separation.
B.B., a shale ¼-¾" thick; occurs 12-14" from bottom. Also a few thin layers of ch. coal
See

(3) Irregularities in continuity of bed (due to deposition, erosion, or movement,
Small slips in roof sh. See next sheet H2C
(a) Effect on mining, Timbering necessary See

SECTION				
Ft.	In.	Name	Index	Sym.
	1	Dir = 2'		
2	6	White Sh		
	15	Dr. Slate		
6	6	Coal		
2	6	F.C		
		L.S		

Collector, Wilson
Mine, Keystone Co. Williamson
M.—UNDERGROUND SHEET (Geol.)

Coal: Survey No. 6
Index No. 0235·75

K. (5) Physical character of Coal,

(a) Relative hardness, About same throut seam; hard enough so a well defined channel may be cut.

(b) Lustre,

(c) Fracture, Conc. at top; blocky in center

(d) Texture, Laminated. See X 2

(6) Impurities in coal, other than bedded, kind, position, persistence, ease of separation, etc.

Pyrite reptd. in W. part of mine, which is abandoned, but none encountered in present working places. In W. it is in form of lenses 7-8" long. See

L. Floor: (1) Material, Floor clay

(2) Thickness, 2'6" in sump; then L.S.

(3) Variation, F.C. contains many slips and much black carbonaceous matter.

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

Floor clay heaves slightly; mine is comparatively wet,

See next sheet H & C

(5) Clay sample No. Location,

M. Stratigraphy,

(1) Fossiliferous horizons underground,

Few brachiopods? and plant fragments in shale overlying coal,

Collection No. Location,

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

See

Collector, Wilson Cola: Survey No. 6

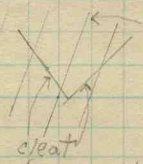
Mine, Keystone Co. Williamson Index No. 0235·75

N.—UNDERGROUND SHEET (Geol.)

Additional notes on Cameron or Kepton mine HEC. Mar. 1925

G-2 The joints noted here show marked regularity in trend, ca N. 20° E, and are fairly evenly spaced at ca. 6"-8". While appearing vertical in the flat roof, one exposure of the side shows them to be highly inclined (80°) in many places although essentially vertical elsewhere.

The jointing extends into the top bench (ca 6") but does not appear below that level. Locally the lower benches, espec. the middle shows a well developed cleat trending in this relation to the roof joints



Where the joints of the roof extend into the coal they are filled with calcite facings. Much calcite appears also in the fractures of the coal, of whatever origin.

H. Although not seen at any point, the limestone cap probably overlies the blk shale which forms the roof in part of the mine both in the S W and in the North.

I J. No true draw slate although where the gray shale overlies the coal the basal 6"-18" is softer and falls soon after the coal is removed.

K. Max. thickness probably less than 84, mean 80, and the mine is at most 66- but the bed is surprisingly uniform in thickness.

The bed appears to show three well defined benches - a top "six inch", locally marked by a shale parting ½" thick but rather uniformly developed everywhere in Winsor 235-75

Add. to Wilson Notes – 1 DEC – 1925

K the mine.

Bone bands, mostly shale but in the BB zone in places but are not as continuous as the regular BB. This contains stringers pyrite lenses locally.

The roof slips are remarkable for their abundance altho having little displacement at any point. The max. displacement involving the coal is probably 12"-15".

Add. notes on Cameron Mine
March 1925 HEC

K6

Western part of mine not seen, but the absence of pyrite may be as noted. Failure to properly manage the workings is given by the present Supt. as the reason for abandonment. He has laid out plans for recovering this coal both from North and West.

L. The top of the floor clay is locally bony and fissile. This is really the base of the coal bed but it is not always taken up. A thin lt gray clay lies beneath, but this is uneven and makes a poor working bottom.

The material in the roof of this mine gives considerable trouble. It is composed of from 1 to 20" of draw slate above which is 20-26' (reptd.) of the heavy white shale called "white top". Of the latter 4-5' is all that is ever exposed by falls, and it is reported, that this much will always fall out if heavy timbering is not used.

A very persistant jointing, running N 20° E, occurs in the draw slate and "white top". Falls always occur along these joints. As a result of these joints almost all the mine must be kept timbered up.

K5 Top coal, first 8", has good conc. fracture. It is dull in appearance, almost like cannel coal, and is very compact. It seems to grade into a carbonaceous shale at the top.

The coal as a whole has very poor cleat.

Collector Wilson Index No. 023575

X- 2 EXTRA NO. 2 County Williamson

Operator, Cameron Coal Co Date June 18, 1921
Mine, Keystone Sec. 35 T. 85 R. 3E
Located, 3/4 miles from Pittsburg NE.
Location in mine, Face 1st N. entry

GRAPHIC SECTION In.		No.	No.	DESCRIPTION OF SECTION (AT POINT SAMPLED) (Note character and thickness of roof)	Inches
				Shale roof	
14½		1	1	Coal	14½
3/8		2	2	Charcoal	3/8
			3	Coal	19½
			4	Charcoal	¼
19½		3	5	Coal	14½
			6	Clay parting	¼-½
¼		4	7	Coal	15
			8	BP	¾
14½		5	9	Coal	15
¼-½		6		77" tape	
15		7			
¾		8			
15		9			
				(Note character and thickness of floor)	
				Total thickness of coal.	77

Condition, As mined. Time, hr. min.
Wt. Gross, 25 lbs. Net, lbs.
What Nos. shipped by Co.? 1, 2, 3, 4, 5, 6, 7, 9

Excluded from sample: No. 8
Sample represents 76¼ in. tons.
Impurities? How do they occur?
Bedded

Sample No. 1 Can No. N-21-54 Lab. No. 12769

Collector, Netzeband Coal: Survey No. 6
Mine, Keystone Co. Williamson Index No. 0235.75
R.—COAL SAMPLE SHEET.

Operator, Cameron Coal Co Date June 18, 1921
Mine, Keystone Sec. 35 T. 85 R. 3E
Located, 3/4 miles from Pittsburg N.E.
Location in mine, Face of 1st E

GRAPHIC SECTION In.	No.	DESCRIPTION OF SECTION (AT POINT SAMPLED) No. (Note character and thickness of roof)	Inches
		Shale roof	
18½	1	1 Coal	18½
		2 Charcoal	3/8
3/8	2	3 Coal	2½
1 2½	3 4	4 Charcoal	1
		5 Coal	37
		6 BB clay	1
		7 Coal	13
37	5	73" tape	
1	6		
13	7		
		(Note character and thickness of floor)	
		Total thickness of coal.	73

Condition, (coal sweating) As mined Time, hr. min.
Wt. Gross, 20 lbs. Net, lbs.
What Nos. shipped by Co.?

Excluded from sample: No. 6
Sample represents 72 in. tons.
Impurities? How do they occur?

Sample No. Can No. N-21-55 Lab. No. 12720
Collector, Natzeband Coal: Survey No. 6 ☐
Mine, Keystone Co. Williamson Index No. 023575
R.—COAL SAMPLE SHEET.

Operator, Cameron Coal Co Date June 18, 1921.
Mine, Keystone Sec. 35 T. 83 R. 3E
Located, 3/4 miles from Pittsburg N.E
Location in mine, 5th S off 8th E off 1st S off Main E

GRAPHIC SECTION In.		No.	No.	DESCRIPTION OF SECTION (AT POINT SAMPLED) (Note character and thickness of roof)	Inches
7				Black shale roof	
				Coal roof	7
9		1	1	Coal	9
1/8		2	2	Charcoal	1/8
			3	Coal	25 1/2
			4	Charcoal	1/2
			5	Coal	6 1/2
25 1/2		3	6	Clay	1/2
			7	Coal	15
			8	BB	1/2
1/8		4	9	Coal	12
6 1/2		5			
1/2		6		70' tape	
15		7			
				Location should be 5th S off 8E off Main S	
1/2		8		off E.	
12		9			
				(Note character and thickness of floor)	
				Total thickness of coal.	77

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

Excluded from sample: No. 6, 8
Sample represents 69 in. tons.
Impurities? How do they occur?

Sample No. 3 Can No. N-21-56 Lab. No. 12771
Collector, Netzaband Coal: Survey No. 6
Mine, Keystone Co. Williamson Index No. 0235:75
R.—COAL SAMPLE SHEET.