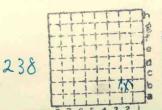


Form 180

Star CC. Star CC. HERRIN



Sec. 36

T. (S.

R. 7 E.

Index No.

Mine Index 3568

LOCATION AND ELEVATION

Location:

Authority

Authority

Max.

W side . C

side

R. R. R. R.

ft.

ft.

ft.

side Highway No.

Location sheet 13-87-14c (4(c?) on top. map 246 Elevation: Method, 1. Est. (

2. Inst. (kind Plane table

9-26-30 Data sheet

DEPTH

To coal Rail to rail

Top of coal above rail. (Est. Rule)

To coal

ALTITUDE OF TOP OF COAL

By estimated data____

By instrumental data

Thickness in. Min.

in. Aver.

in.

, 501.6 ft.

GEOLOGICAL DATA

1918 Mine notes, date

Coop No. Pyr. inv. X

U.I.

Coal Ash inv.

CHEMICAL DATA

Car U.I.

Org. Sulf U.I.

Ash fusion U.I. Ash anal.

U. I. U. I.

B. M. B. M.

B. M.

B. M.

B. M. B. M. Others Others Others

Others

Others

Others

Classification

Analyses Face

Misc. tests: Coking.

Cleaning

Boiler

Published descriptions:-

Railroad, Wagon, Idle, Abandoned

IDENTIFICATION

County No. 238

Quad. New Athens County St Clair

Coal No.6

Part 4



Sec. 30 ₽. S. W.

Index No.

1130 B2

COAL MINE LOCATION AND DATA

(34215—1M—3-30) 7



Mine Name or No., Star & mile S from Freeburg Operator, 191 Star Coal Co

Operator, 191

Entrance, Shaft Elev., 500 ft. above, below, Depth to bottom coal, 77 ft. top SURFACE DATA.

A. Topography, Nearly level.
B. Surficial materials. (1) Character,

See

Sec. 30

(2) Thickness, **@bout** 60 (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc.

Water gets into shaft rather badly from the surface after almost every hard shower . The roof seems to be intact throughout the mine however.

C. Outcrops, (1) Character,

(2) Structure.

Sec See

(3) Fossil horizons, Collection No., See

See

(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,

GEN'L COAL REPT

Survey No. 6

Collector, Cady, Sept 6, 1918

Mine, Star Co. St. Clair

Index No. 1130 a

L.—SURFACE SHEET (Geol.)

Coal bed name: Local,

John C	S. Moore Corporation, Rochester, N. Y. Binder and holes in leaves, each in 1900 to memory in the contract of t	Patented	1906. 218834	
	THEORY DECEMBER			
F. Thi	ckness of rock above bed worked,			11
(1)	Important variations,			
		See		
G. No	te presence of strata having important effect on mining,	C		
(1)	Position,	See		
	Character,			
	Persistence,			
(4)	Other workable coal beds,			
		See		
	rock, Limestone	S	ECTION	
	Thickness, Several feet	Ft. In.	Name Index	Sym.
(2)	Height above coal, 0 - more than 10 ft			
I. Im	nediate roof, Black slate, or clod and L			
(1)	Thickness, Bk st 0-4 (2) Contact with coal,	3		
Bk st	sticks tocoal			
(3)	Horizontal variation, Bk st pinches out un	ler		
TR. 1-0	crod between cr & 18 pee			
	w slate. (1) Thickness, (2) Contacts except clod under 1s			
	Persistence, Only under 1s			
	only under is			
	d bed: Max. 124 Min. 78 Av. 84 inches			
(1)	Benches, Several due to pers, impur			
	(a) Position, ities. See sections			
	(b) Persistence, · Very persistent See			
(2)	Bedded impurities, kind, position in benches, persis-			
	tence, ease of separation. Persistent			
bands	of clay, sulphur, mother coal etc			
as sno	wn in the various sections			
(3)	See Irregularities in continuity of bed (due to deposition,			
(0)	erosion, or movement, Very numerous			
slips, l	ike horsebacks in #5 See			
	(a) Effect on mining, Somewhat similar			
to hors	ebacks See			
Collecto	oady bela 0, 1910		The second secon	
Mine, M.—UI	Star Co. St Clair Index.	No.	11300	



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

(a) Relative hardness, seemed to be best. Middle

coal broken more by bands of impurities

(b) Lustre, Nothing noteworthy

(c) Fracture,

(d) Texture,

See

(6) Impurities in coal, other than bedded,

(a) Kind, Vertical pyrite streaks up to 4" thick

(b) Position and persistence, Clay bands in horsebacks

Neither persistent or in definite position

(c) Rejected, Clay rejected Ease of separation,

See

L. Floor: (1) Material, Fire clay

- (2) Thickness,
- (3) Variation,
- (4) Note character, condition, tendency to heave, relation to undercutting commercial value. Heaves a little in some places

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 Sept. 6, 1918
Mine, Star
N.—UNDERGROUND SHEET (Geol.)



INDEX

H-I

The r of in this mine is variable. The ordinary roof is black slate which piches out in places beneath the cap-rck and attains a thickness of at least 8 - 10 feet under the thickest coal. In this latter place the shale becomes lighter colored toward the ton.

The cap rock commonly rests either upon the black slate or upon the clod which lies between it and the coal. In places however, a incoherent clay called "white top" lies between the black slate and the coal. I did not see this but it was described to me as "mud", and as impossible to support if the black slate came down.

The clod is a soft clay shale with no coherence, that lies between the cappock and the coal. It is usually present under the rock roof but may be very thin down to a fraction f an inch. Black slate contains numerous large

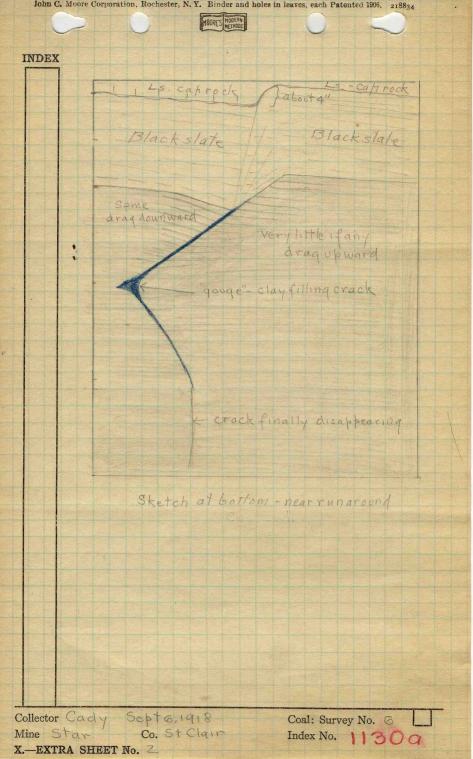
concretions, commonly 18-24" across.

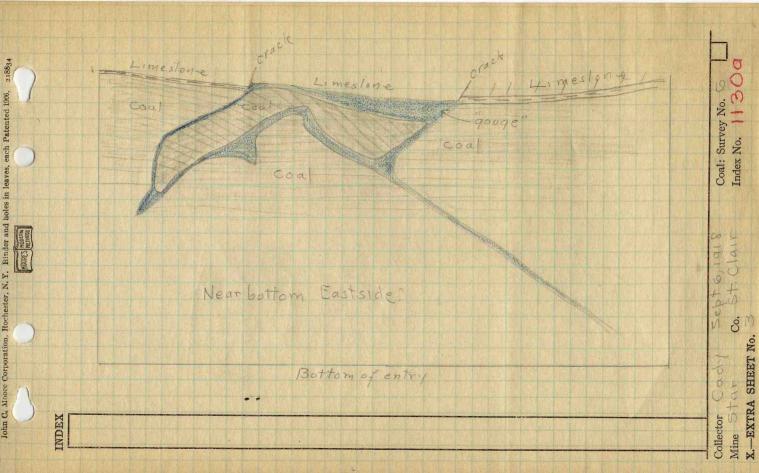
Under the rock roof, especially the coal is crossed by numerous vertical slips like the horsebacks in coal No.5. This cracks in the coal are always beneath similar cracks in the limestone. In places the limestone will be off set up to six inches or more possibly, the offsets being called t "rolls". The coal is usually off set more than the limestone and the crack will be filled with gouge up to a thickness of possibly a foot or more according to the miners but did not see any thicker than a few inches.

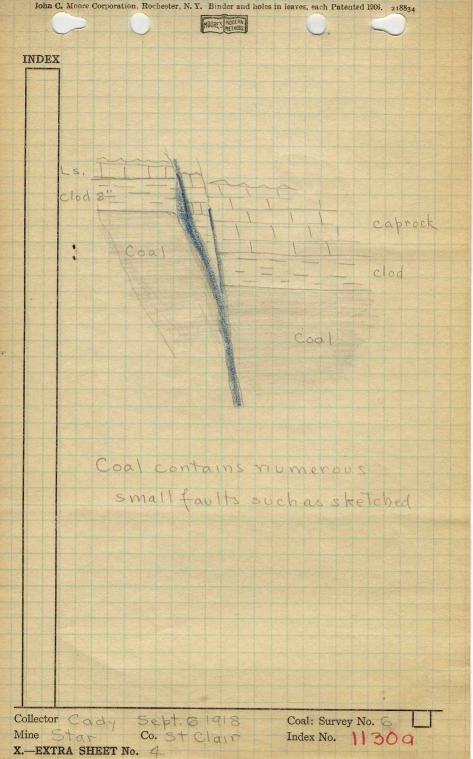
Several sketches of the "rolls" are shown on the accompanying pages:

Collector Cady Sept 6,1918
Mine Ster Co. St Clair
X.—EXTRA SHEET No. 1

Coal: Survey No. 6 Index No. 11309









Q.—COAL SECTION SHEET.

Roof slate 1 Coal, with sulphur lense (1"x 6") 2 Clay streak 3 Coal 4 Clay, sulphur in places 5 Coal 6 Clay and sulphur 7 Coal 8 Blue band and pyrite 9 Coal Tape Pyrite especially strong in the blue band and in the clay porting about 4" above the blue band. Probably averages about 4" in this part of mine.	Symbol Symbol	D. BOWN N. PROMINENCE PORTO	772 M. F.	1930boxes relies since	NAME AND ADDRESS OF THE OWNER, WHEN	iption			****	1	Inches
1 Coal, with sulphur lense (1"x 6") 2 Clay streak 3 Coal 4 Clay, sulphur in places 5 Coal 6 Clay and sulphur 7 Coal 8 Blue band and pyrite 9 Coal 7 Tape Pyrite especially strong in the blue band and in the clay perting about 4" above the blue band. Probably averages about ½" in this part of mine.		6th	room	off	the	8th	south	on	west	side	
2 Clay streak 3 Coal 4 Clay, sulphur in places 5 Coal 6 Clay and sulphur 7 Coal 8 Blue band and pyrite 9 Coal 7 Tape 79 Pyrite especially strong in the blue band and in the clay perting about 4" above the blue band. Probably averages about \(\frac{1}{4}\)" in this part of mine.		Roof	slate								
2 Clay streak 3 Coal 4 Clay, sulphur in places 5 Coal 6 Clay and sulphur 7 Coal 7 Coal 7 S Blue band and pyrite 9 Coal 7 Tape 79 Pyrite especially strong in the blue band and in the clay perting about 4 above the blue band. Probably averages about 4 in this part of mine.		1	Coal,	wit	h su	21 phu	r len	se (1"x 6	(")	17.3/
4 Clay, sulphur in places 5 Coal 6 Clay and sulphur 7 Coal 8 Blue band and pyrite 9 Coal Pyrite especially strong in the blue band and in the clay perting about 4" above the blue band. Probably averages about 1 in this part of mine.				stre	ak					14	n
. 7 Coal . 8 Blue band and pyrite . 9 Coal Tape Pyrite especially strong in the blue band and in the clay perting about 4" above the blue band. Probably averages about 4" in this part of mine.				ת לונס	harm	320 -	7.000				10
. 7 Coal . 8 Blue band and pyrite . 9 Coal Tape Pyrite especially strong in the blue band and in the clay perting about 4" above the blue band. Probably averages about 4" in this part of mine.			Coal	part		*** }	races				12
Pyrite especially strong in the blue band and in the clay parting about 4" above the blue band. Probably averages about 4" in this part of mine.				and	sulp	hur					14
Pyrite especially strong in the blue band and in the clay porting about 4" above the blue band. Probably averages about 4" in this part of mine.	•			70 a m 27							4
Pyrite especially strong in the blue band and in the clay parting about 4" above the blue band. Probably averages about 1 in this part of mine.				pand	and	pyr	ite				The state of the s
4" above the blue band. Probably averages about 1 in this part of mine.									Tape		79
4" above the blue band. Probably averages about 1 in this part of mine.		Pyzy	rite e	anec	iell	77 04	rong i	in t	he		
4" above the blue band. Probably averages about 1 in this part of mine.	b	lue ba	and an	din	the	cla	y part	ting	abou	t	
		4" abo	ove th	e bl	ue t	and.	Proba	ibly	aver	ages	
(Scale: 1 division = 3 inches).		about	in in	thi	s pa	rt o	r mine	€.			
(Scale: 1 division = 3 inches).											
(Scale: 1 division = 3 inches).											
(Scale: 1 division = 3 inches).	1 1/1/2										
(Scale: 1 division = 3 inches).											
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(Scale: 1 division = 3 inches).											
	THE RESERVE THE PROPERTY OF THE PARTY OF THE		(5	Scale:	1 divis	sion = 3	inches).				
Sample No. Lab. No.	Sample No.			Can N	0		Lab	No			
	O 11	Code					THE RESIDENCE PARTY AND PERSONS INC.	NAME AND ADDRESS OF	ey No.	6	117
Mine, Star Sept. 6, 1918 Coal: Survey No. 6 L		r	sept	Co. 5	1.97	ain				The state of the s	a



Symbol Symbol	Description	Inches
***************************************	Measured near bottom on east side	
R	oof: Black slate about 2 ft, Ls above	
	1 Coal	25章
	2 Parting, clay, sulphur, mothercoal 3 Coal	13=
	4 Clay parting about	132 2 9 2 7 12
	5 Coal	91
	6 Clay and mothercoal, and sulphur 7 Coal	7
	8 Blue band (0 - 2")	吉
	9 Coal, lower bench	24출
	Tape	81
per	The partings #2,4,6,& 8 are very sistent throughout the mine. In many	
pla	ces one or more of them will be	
	ite. The blue band is not commonly all ite but will in places be half pyrite	
The	amount of pyrite in the bed probably	
	ounts on the average to 1/3rd	
0.1	en inch of pyrite	

(Scale. I division – 5 men

Can No.

Collector, Cady Sept. 6, 1918
Mine, Star Co. St. Clair

Coal: Survey No. 6
Index No. 11309

Lab. No.

Q.—COAL SECTION SHEET.

Sample No.



INDEX

General Notes

Main north entry off the main west near end Roof: black slate.

Coal contains a few lenses 2"x 4"
Saw one plate thrown on gob 12 x 18" There seems to be considerable of this kind of material in the mine.

Room #6 off 8th north west side

Sulphur in blue band. Only a little commonly not separated. 3/4 to 1" thick and is badly broken up in shooting

Roof: 1s 5 ft thick

Room 2 8th north.

Sulphur in blue band. 2" in part of room. Probably average less than 4"

262" from blue band to bottom of coal Coal 7'4" thi k

7th and 8th entrys on the so th on west side.

Cross cut near 3rd room. 8th south

Sulphur aver. 8" in blue band

3" coal above blue band then another band

of clay about 2" thick with pyrite, and

13" above blue band another clay band with

pyrite, Sulphur is all shot up so that

it will be difficult to recover



Symbol Symbol	Description -	Inches
***************************************	5th and 6th south entrys on east side	
	you and con south energy on eage side	
	Roof: Black slate	
	1 Coal	31
	2 Clay streak	
	3 Coal 4 Clay and pyrite	19
	5 Coal	14
	6 Clay streak 7 Coal	
		4
	8 Blue band 9 Coal	1
	9 Coal 10 Mothercoal	30
	11 Coal	2
	II Joan	21
		111
		1117
		121
	Very little sulphur here.	
	Scalathin abruptly to the west	
	against a rise in the floor. The floor	
	rising at about a 30 degree angle, the	
	roof not quite as rapidly. The coal	
	very clearly thins up between the con-	
	verging roof anf floor showing that the	
	structure is in part at least original.	
	Note: Letter in conversation with Wm	
	Hartman of Kolb Coal Co P received the	
	impression that the high irregular coal	
	was on the west rather than on the east	
	side. Still think note as taken correct,	
	(Scale: 1 division = 3 inches).	

Sample No. Can No. Lab. No.

Collector, Cady Sept 6, 1918 Coal: Survey No. 6

Mine, Star Co. St Clair
Q.—COAL SECTION SHEET.

MOORE'S MODERN METHODS PYRITE

GEOLOGICAL OCCURRENCE

See Extra Sheet No.

i. Manner Pyrite occurs as plates between the various benches, as in general in the Belleville region

Pyrite is of the good stony variety that generally comes out fairly clean. High grade stuff

2. Size of Masses Commonly 1-2" thick and 6-15" across
A few pass bly twice as large. and a few balls

One plate seen 12" x 18"
3. Measurements to determine amount

No.	Location in m	ine C P	2 3 C P C P	4 5 C P C P	Total Coal Pyrite	Px3 P
1 2 3 4 5 6 7 8 9	R-6,8th south 3 off 8th NR-2,8th nor R-3,8th sou	off B	Very li	ttle	80 3/4 88 1 8	3/4 1. 1.5 1.7 3/8 .5 3/8 .5
	Notes Percent of p around 1%. Samples.	yrite pre			Total Average	4.7
MATERIAL TO	Label No.	Lecation in 1	mine	Analyses, e	tc.	
	-18-96 Pyr	nded pyr, ,from bro n top coa	own ball	example	of balls	found
N	either of th	e above s	samples a	re repre	sentative	of the
	common pyrit	e found i	n plates	, which	is of the	ordin-
6	N					

6. Notes

Collector Cady
Operator Star Coal Co
Mine Star

Star

Coal Co
No. 49

St Clair Co

Index No. 1130 q

Y-PYRITE SHEET (1)

(8712-200-7-18)

(8713-200-7-18)

Z PYRITE SHEET (2)