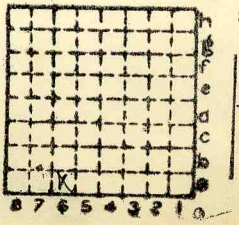
Chicago, Wil., & Franklin C.C.
ORIENT #1
County #266
S-3
M.i. #505 (BM15)



Sec. 10
T. 7 N. S.
R. 2 E. W.
Index No.

TOWN TOWNSHIP Map No.

COMPANY No. R.

FARM No. T Sec.

AUTHORITY

ELEVATION

COLLECTOR

CONFIDENT

No. Depth Feet In.

Orient mine reclamation near completion

Project costs $400,000

By Linda Sickler 8-12-91
Of The Southern Illinoisan S. Illinoisan

A $400,000 mine reclamation project at two abandoned mine sites near Orient is winding down.

Mayor Fred Dananay said workers are spreading gob, or mine refuse, to make it as even as possible at the Orient No. 1 mine site.

After that work is completed, lime will be spread to neutralize the acidic content of the land. Finally, the area will be covered with from 8 to 10 inches of sod, and grass and shrubbery will be planted.

The entire project is expected to be completed by the end of August.

The project began in April, and 66.4 acres are being reclaimed. The work is reducing both safety hazards and pollution caused by the abandoned mine.

Some of the gob piles at the north edge of Orient towered 40 to 50 feet high. There were open shafts filled with toxic gases. Fires were an ever-present danger.

One such fire at the southwestern edge of Orient seriously burned a 12-year-old West Frankfort boy in January 1990 when he fell through the surface of a burning slurry pile. Slurry consists of coal particles left from the coal washing process. Once ignited, it can burn slowly beneath the surface of the earth for years.

Burning gob and slurry are especially dangerous because they can burn undetected at extremely high temperatures deep under the ground. Often, the fire is discovered only when someone falls through the crust and is burned.

Trash fires ignite grass and shrubbery, which in turn ignite refuse already at the site. Dananay said it was not uncommon to find mounds of used tires 10 to 15 feet high dumped at either site.

In addition to the fire hazard, acidic runoff from the gob piles was polluting the Big Muddy River. That problem also will be eliminated when the project is complete.

Two different areas near Orient are being reclaimed, both part of the old Orient No. 1 mine. One is at the southwestern edge of town near the mine's railroad beds; the other is just north of Orient, near the old mine shaft and offices.

The reclamation is nearly complete at the southwestern edge of town, Dananay said. Even the sod has been placed there, virtually eliminating the danger of fires.

The dirt used to cover the area has been taken from the immediate area. The work is being done by K.D. Crain and Sons Inc. of Johnston City.

The landscape is vastly different than it was last year.

"Now it looks like a runway for a 747," Dananay said. "Once it is completed, there will be no danger of anyone getting burned there again."

The reclamation project is being funded by the Illinois Abandoned Mined Lands Reclamation Council, with money awarded by the federal Surface Mining Control and Reclamation Act of 1977. Before 1977, mines were abandoned with little effort made to eliminate safety hazards.

Dananay has campaigned to have the mine sites reclaimed. The result is the second largest project ever undertaken in Orient; the largest was the construction of the mine many years ago.

Despite the dangers at the abandoned mine, children often played there. Access to the sites was limited last year after crews dug trenches at all entry points.

The city also has kept a close watch on illegal dumping.

County Index No.

T.—DRILL RECORD

Mine originally operated by: (1)

Date 1913 — Chicago, Wilmington, & Franklin Coal Co.

Original name or number: #1 Orient

Illinois Coal Report 1913 p. Morgan

LATER OPERATORS

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

100'N 700'W of SE Corn. SE SW (1948)

1946 ok

• Also owners #See ownership sheet

Railroad, Wagon, Idle, Abandoned 1955 Shaft

C.B.&Q., C.&E.I., Mo. Pac., I.C.

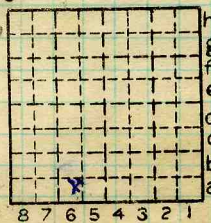
IDENTIFICATION

County No. 266 Coal No. 6

Coal Rpt S3 W. Frankfort Quad. 263

(1948) Part 9'6"

County Franklin



Sec. 10

T. 7 S.

R. 2 E.

Index No. 1110 a6

COAL MINE OPERATOR

MOORE'S MODERN METHODS

(2 Sheets) COAL PRODUCTION (Sheet 1)

Period Mo.	Day	Year	Mo.	Day	Year	Tons	
		1915				280	386
		31				516	956
		32				538	578
		33				491	390
		34				579	235
		35				679	844
		36				771	346
		37				854	797
		38				669	039
		39				715	694
		40				487	716
		41				834	005
		42				198	484
		43				456	342
		44				699	261
		45				651	582
		46				287	454
		47				275	156
		48				147	808
		49				773	642
		50				052	185
		51				026	226
		52				674	719
		53				490	938

SUMMARIES

No. to No.

Railroad, Wagon, Strip, Idle, Abandoned 1955

IDENTIFICATION

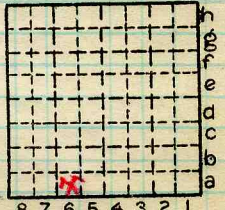
County No. 266

Coal No.

Coal Report No. S-3

Quad. 263

County Franklin



Sec. 10

T. 7 N. S.

R. 2 W. E.

Index No. 1110 a6

COAL MINE—PRODUCTION

ILLINOIS GEOLOGICAL SURVEY, URBANA

(2732—2M—7-41)

MOORE'S MODERN METHODS

(2 Sheets) COAL PRODUCTION (Sheet 2)

Period Mo.	Day	Year	Mo.	Day	Year	Tons	
					1954	720	283
					1955	208	582

Closed March 31, 1955

SUMMARIES

No. to No.

Railroad, Wagon, Strip, Idle, Abandoned 1955

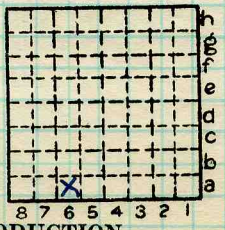
IDENTIFICATION

County No. 266 Coal No.

Coal Report No. S-3 ☐

Quad. 263

County FRANKLIN



Sec. 10

T. 7 S.

R. 2 E.

Index No. 1110 a4

COAL MINE—PRODUCTION

ILLINOIS GEOLOGICAL SURVEY, URBANA

(2732—2M—7-41)

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 Level) 423.6 ft.

By Co. Elev. G.M.M. Data sheet

DEPTH

Authority	To coal	512 ft.
Authority	Rail to rail	520 ft.
Top of coal above rail. (Est. Rule)		ft.
	To coal	509 ft.

ALTITUDE OF TOP OF COAL

By estimated data

By instrumental data −85 ft.

Thickness

Max. in. Min. in. Aver. 113 in.

GEOLOGICAL DATA

Mine notes, date 1912

Coop No. BM 15 Pyr. inv. Coal Ash inv.

CHEMICAL DATA

U.S. Bur. Mines, Spring '18 - 30246-7 30844

Analyses Face	U. I.	B. M. BM A23442-3-4 B.M. A66491-23-4-5-6	Others 10618
Car	U. I.	B. M.	Others 30541
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

#BM15

Classification R.I. 132 U.C.I. 146

Misc. tests: Coking. Cleaning Boiler

Published descriptions:—

Railroad, Wagon, Idle, Abandoned

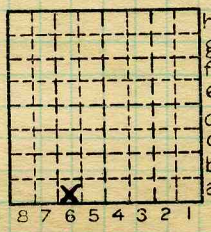
IDENTIFICATION

County No. 266 Coal No. 6

S-3 263

Quad. W. Frankfort Part

County Franklin



Sec. 10

T. 7 N. S.

R. 2 E. W.

Index No. 1110.6

COAL MINE LOCATION AND DATA

(34215—1M—3-30) 7

Mine Name or No. #1 Mine Address West Frankfort

Operator Chicago Wilmington & Franklin Coal

Main Office Address _____

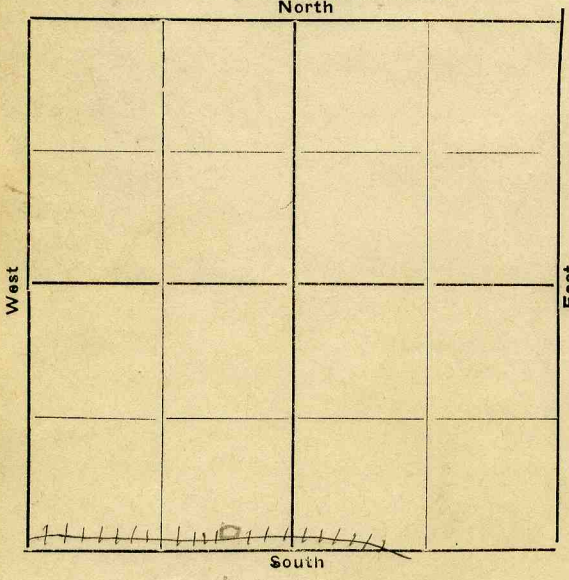
Chicago Illinois

Location of Mine:

Township Name Denning County Franklin

Section No. 10 Township 7 ~~N~~ S Range 2 E ~~W~~

Indicate location of mine and position of R. R. in plat of section below.



Kindly state number of feet from quarter section lines:

1225 from N. line

730 from E. line

125 from S. line

580 +1320 from W. line

Idle entire year 19____ Yes / No

Abandoned (date) 19____

Surface landing is 409 feet above sea level or about _____ feet (above) (below) railroad station at _____ (nearest town).

Depth to top of coal is 510 feet.

Average thickness of coal is 9 feet 6 inches.

Do not fill in below this line.

Coal Bed Name Belleville Survey No. 6

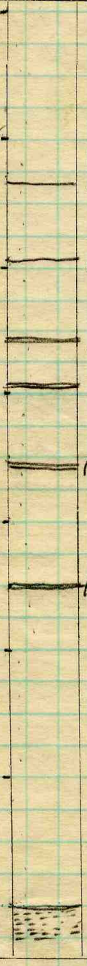
County Franklin Index No. _____

V—MINE LOCATION SHEET.

MOORE'S MODERN METHODS

Operator, Chicago, Wilmington & Franklin Coal Co. Date Aug 28. 1931
Mine, Orient No 1 Sec. 10 T. 7 S R. 2 E
Location in mine,
Room 1 off 4th North off 7th West North Cover

GRAPHIC SECTION



(1 division = 3 in.)

DESCRIPTION OF SECTION (AT POINT SAMPLED)

No.	(Note character and thickness of roof)	Inches
	The entire seam is probably about 10' thick at this point.	
	Roof of Room 94" above fire clay	
	At 86" above clay pyrite parting 1/8" thick - (thin lamina - clay faced)	
(6)	Charcoal parting 1/4"	
(5)	Charcoal parting 1/4"	
(4)	Charcoal 1/4 to 1/2"	
(3)	Dull boney Coal 1" to 1 1/2"	
(2)	Blue Band (Boney Coal 1/2 to 1")	
(1)	Boney Charcoal Parting 1/2 to 3/4"	
	(Note character and thickness of floor)	
	Total thickness of coal	

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

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

Sample No. 34 Can No. 34 Lab. No.

Collector, H. P. Nicholson
Mine, Orient No 1 Co. Franklin
R.—COAL SAMPLE SHEET.

Coal: Survey No.
Index No.

4700' North and 400' West of Shaft.

See Extra Sheet No.

Entrance shaft.
Kind of tipple steel
Motive power for hoist steam
Source if electrical
Kind of hoist (cage, skip, etc.) cage, self dump.
Kind of haulage motor - 15 T - drag -
Mining equipment no loading machines
Note any features of the equipment that are of special interest

SURFACE DATA.

A. Topography, Pronounced ridge, valley N & E-W.
B. Surficial materials, (1) Character,

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

C. Outcrops, (1) Character,
(2) Structure,
(3) Fossil horizons,
Collection No.,
(4) Evidences of subsidence,
D. Note collection of mine maps, drill records and shaft logs.

See drill record sheet,

E. Notes on surrounding area,

Coal bed name: Local, 6 Survey No.
Collector, I & E
Mine, Orient Co. Franklin Index No. 1110.030

L.—SURFACE SHEET (Geol.)

MOORE'S MODERN METHODS

F. Thickness of rock above bed worked,

(1) Important variations,

See

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

roof shale

See

(1) Position, over coal

(2) Character, sl. sy sh - massive

(3) Persistence, everywhere

(4) Other workable coal beds

See

H. Cap rock, none

(1) Thickness,

(2) Height above coal,

See

I. Immediate roof, see above

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

uneven

(3) Horizontal variation,

See

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

none

(3) Persistence,

K. Coal bed: Max. 114" measured 192" in pit Min. 108 probably accurate Av. 114 inches

(1) Benches, usual 4 or 5

(a) Position,

(b) Persistence, uniform

See X3

(2) Bedded impurities, kind, position in benches, persistence, ease of separation,

Shale blue band and bone bands

See X 3

(3) Irregularities in bed (due to deposition, erosion, or movement), some faults - see mine maps.

See

(a) Effect on mining, caused bony regrades -

See X 1-2

SECTION			
Name	Ft.	In.	Sym.

Collector, [illegible]

Coal: Survey No.

Mine, Orient Co. Franklin Index No. 1110.030

M.—UNDERGROUND SHEET (Geol.)

K. (5) Physical character of Coal,

(a) Relative hardness, middle bench hardest

(b) Lustre, middle brightest,

(c) Fracture, top most irregular

(d) Texture, See

(6) Impurities in coal, other than bedded, kind, position, persistence, ease of separation, etc. facings of calcite, some gypsum - stringers of pyrite - fair persist.

See

L. Floor: (1) Material, red & gray clay, stigmaria -

(2) Thickness, 1" to 42"+

(3) Variation, Locally gritty "black jack"

(4) Note character, condition, tendency to heave, relation to undercutting, commercial value. heaves readily - not used for undercutting

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, WEC

Mine, Orient Co. Franklin

Cola: Survey No.

Index No. 1110.B 30

N.—UNDERGROUND SHEET (Geol.)

Symbol (1 division=3 in.)	Description	Inches
	roof shale with 2" coal bands in base of foot	
	coal	13 - 0
	charcoal pty	0 - 1
	coal with ⅛" char pty 1" from bottom	6 - 0
	charcoal pty	0 - 1
	coal	6 - 0
	charcoal	0 - 2
	coal bed breaks at base here	9 - 4
	coal	39 - 4
	bone and charcoal band	3 - 0
	coal, with sl. bony streaks	5 - 4
	shale band - BB	1 - 0
	coal	29 - 0
		113-0

Section at 1st xcut bet. 7th and 8th Rooms off 7th N. panel off 5th W.N.

Tape 115± - but not really measured accurately

Floor Clay

Collector, H E C

Mine. Orient Co. Franklin

Coal: Survey No.

Index No. 1110.630

Q.—COAL SECTION SHEET.

INDEX

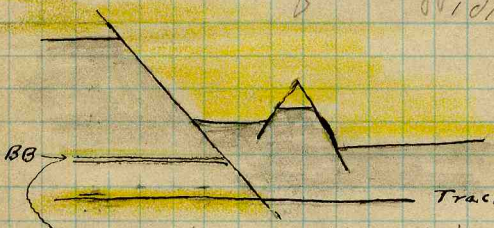
(1) Above

4" fault down on West
trends ca S. 40° E across 4th E entry
100' West of 7th Panel North of 3 E S

Fault bet. 9-10 and 11-12 on 4th E S
230 E of 10 N off 3 E S

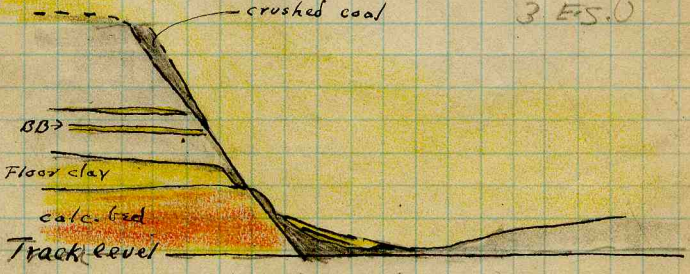
1 div = 24" H & V

1 div = 2 feet.



BB at 26' – ½" – sl. by sh – acid test

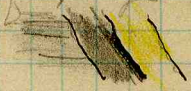
Bet 11-12 and 13-14 – 220' West of 13N off 3 E S.



BB – sh @ 22¼ – 1½ to 3¾

2nd band bone @ 31¼ – ¼ to 1¼ to 0

An air course (South) The fault trends N–S and shows more wavy plane with 12"–18" zone of gouge – half coal & half rock & clay



Collector H E C
Mine Orient Co. Franklin
Coal: Survey No. G
Index No. 1110.230

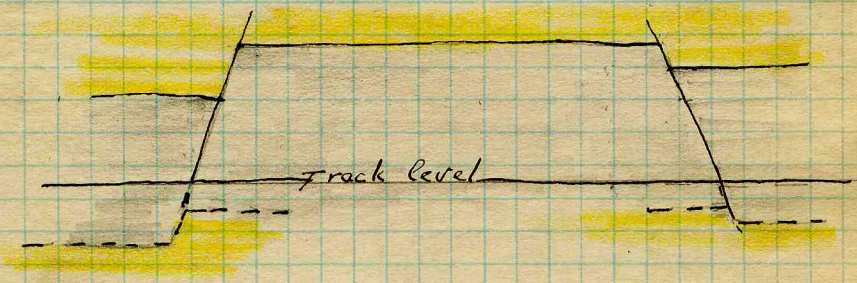
X.—EXTRA SHEET No. 2

Section at B along ℄ th E. S.

East

39"

16" West



E. may rise 10" or 12" track grade prevents accident est.

Collector

X-1

EXTRA NO.

Index No. 1110-830

County Franklin

INDEX

at cut off on 12th WN -
BB @ 0 42 3/4 - 1 1/2 - bony

at xcut off 7 to 8 on 11th N Panel 5 WN

BB 1 3/4" @ 29 Total coal 113"

No tie between U.S.GS datum and mine datum has been completed.
Write D. J. Carroll for late data.

K1 The usual benches appear - 3 in top coal of which one or two are usually left up, the lowest one is usually taken down. The middle bench of ca 48" to the BB zone - and the lower bench below the BB.

K2 As elsewhere in this district the blue band itself is sometimes hard to find but a zone of bony coal ca 3 1/2 - 8" thick is usually present about 30 to 48 inches above the fire clay.
No shale can be found in place, though the 2" band will show a half inch of true shale in its middle portion.

K

Collector H E C
Mine Orient Co. Franklin
X.—EXTRA SHEET No.

Coal: Survey No.
Index No. K 110.30

US BM Bull 123, p 173-4

Orient. Orient Mine.

Analyses 23442, 23443, and 23444 (p. 33). Bituminous coal, Illinois field, from Orient mine, a shaft mine at Orient, on a spur connecting with the Chicago, Burlington & Quincy and the Chicago & Eastern Illinois Railroads. Coal bed, No. 6 of the Illinois geological survey; Carboniferous age, Carbondale formation. Bed is of fairly uniform thickness, ranging from 7½ to 10 feet. Roof, massive shale, which falls readily when exposed; floor, medium hard, smooth clay. Shaft, 555 feet deep. The bed was sampled by J. R. Fleming November 24, 1915, as described below:

Sections of coal bed in Orient mine.

Section	A	B
Laboratory No.	23442	23443
Roof, shale.	*Ft. in.*	*Ft. in.*
Top coal (not sampled)	[a] 2 2	[a] 2 ½
Coal, brittle, alternating bright and dull lines	4 0	4 7
"Mother coal" and bone	[a] ½	[a] ½
Coal, brittle, lustrous	8	6½
"Blue band"	[a] 1	[a] 1
Coal, bright, brittle	2 1½	1 4
Parting streak	.. ..	Trace.
Coal, hard, bright	.. ..	1 2
Floor, clay.		
Thickness of bed	9 1	9 9½
Thickness of coal sampled	6 9½	7 7½

[a] Not included in sample.

Section A (sample 23442) was measured at the face of 4 east entry, main south entry, 1,500 feet south from the shaft. Section B (sample 23443) was measured at the face of the main west entry, 2,850 feet west from the shaft.

The ultimate analysis of a composite sample made by combining equal portions of samples 23442 and 23443, is given under laboratory No. 23444.

The mine is worked on the room-and-pillar panel system. In 1915 the coal was undercut with electric chain breast machines and broken down with permissible explosives. One to 2 feet of coal is usually left for roof because of the poor strength of the overlying shale. Practically none of the coal was shipped as run-of-mine. The tipple had shaker screens with seven different sizes of openings, ranging from three-fourths inch to 6 inches, which made it possible, by combining the coal through the different screens, to make a large variety of sizes for the market, the four principal sizes being 6-inch lump, 3 to 6 inch egg, 2 to 3 inch nut, and 2-inch slack. Approximately 45 per cent of the screened coal passed a 2-inch screen. The coal under 2 inches was rescreened. Loading booms were used to lower the coal into the cars to insure as little breakage as possible. Pickers were employed on the boom conveyors. None of the coal was washed or coked. There were four loading tracks. The daily average production was about 3,600 tons, and was to be increased to 4,500 tons. The probable lifetime of the mine was 20 years.

Coal No. - 6

Mine-Orient Franklin Co. Index No. - 1110.30

USBM Bull 193, p 148

ORIENT. ORIENT MINE.

Analyses 30266, 30267, 30844, and 31050 (p. 31). Car samples of bituminous coal, Illinois field, from Orient mine, a shaft mine, 520 feet deep, at Orient, on a spur connecting with the Chicago, Burlington & Quincy, the Chicago & Eastern Illinois, and Illinois Central Railroads. Coal bed, Herrin, or No. 6, of the Illinois Geological Survey; Carboniferous age, Carbondale formation. Two samples of coal, one (30266) representing 15 cars and one (30267) 17 cars, were collected by W. B. Plank on April 3 and 4, 1918. One sample (30844) of coal, representing 32 cars, was collected by T. Fraser on July 22 to 24, 1918; one sample (31050) of coal, representing 159 cars, was collected by T. Fraser on September 13 to 23, 1918. At the time of sampling the average daily capacity was 5,000 tons and the maximum day's run 6,777 tons. Loaded track capacity, 250 cars.

For description and analyses of other samples of coal from this mine see Bureau of Mines Bull. 123, pp. 33, 173.

Coal No. 6

Orient Mine Franklin Co. Study No. 11 10.30