



Form 180 Blue

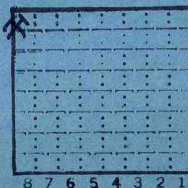
See location sheet.

Abd. Shaft Mn.

Western Coal & Mg. Co.
Mine #1, Bush

Correct
↓

COUNTY No. 445



Sec. 8 ~~8~~
T. 8
R. 1

H

■

S.

E.

W.

Index No:

↓



Mine originally operated by: (1)

Western Coal & Mg. Co.

Date
1904

Original name or number: Bush #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

a wholly owned
subsidiary of HoPoc.



* Also owners #See ownership sheet

Railroad, Wagon, Idle, Abandoned

Ref. 1930

SHIPPING MINE IDENTIFICATION

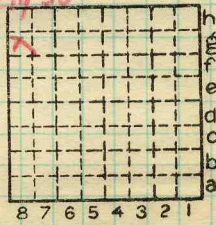
County No. 445

Coal No. 6



Part

Quad. Herrin



Sec. 8

T. 8 N. S.

R. 1 E. W.

Index No.

County Williamson

COAL MINE OPERATOR

0408 g8



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 Plane Table) 402.3 ft.

By W.B.R. (1932) Data sheet

DEPTH

Authority To coal ft.
Authority Rail to rail ft.
Top of coal above rail. (Est. Rule) ft.
To coal 109 ft.

ALTITUDE OF TOP OF COAL

By estimated data ft.
By instrumental data 293 ft.

Thickness

Max. in. Min. in. Aver. 102 in.

GEOLOGICAL DATA

Mine notes, date

Coop No. Pyr. inv. Coal Ash inv.

CHEMICAL DATA

Analyses Face U. I. B. M. 1688, 1683, Others
Car U. I. B. M. 4085, 4201, Others
Org. Sulf U. I. B. M. 3907, 1762 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. 445

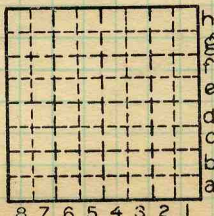
Coal No. 6



Part

Quad. Herrin

County Williamson



Sec. 8

T. 8 S.

R. 1 E.

Index No.

0408 98

COAL MINE LOCATION AND DATA

402.3 ✓

Town, Bush

Local Authority,

Fisher: Log

Surface alt., 409 ft.

Depth to coal, ~~110~~ 109 ✓ ft.

Alt. top coal, ~~200-300~~ 293 ✓

Level: Auth., TES; Bull. 16 p. 285

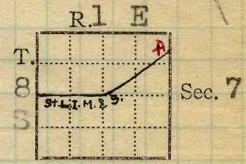
Thickness: ~~A~~ 102 (log) in.

Roe; P. table 1932

Max. in., Min. in.

Method, H.L.

R. R.,



Location: authority, TES; folio

abandoned. (Letter from Co.)

(Show R. R.)

Operator GEN'L COAL REPT.

Mine Name or No.

445 ✓

1904 Western Coal & Mining Co

Bush No. 1

Successor to

Date

Succeeded by

Date

Succeeded by

Date

PRODUCTION.

1915	Fiscal		U. S. No.
	253	452	
			926

Geol. Notes? *no*

Coop. No.

Coal secs.? *no*

Analyses No. U.S. 1688, 1683, 4085, 4201, 3207, 1762 all U.S.

Examined by

Ref.

Coal bed name: Local

Survey No. 6

County Williamson

Index No. 0407.465

K.—ACTIVE SHIPPING OR LOCAL COAL MINE.

Operator, _____ Date *June 1, 1908*
 Mine, *Bush No. 1* Sec. _____ T. _____ R. _____
 Located, _____ miles from *Bush - St. L. Iron Mt. & S. P. R. R.*
 Location in mine, *1000 ft. N.E. of shaft No. 10 - E*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			<i>Roof coal</i>	
0	1		<i>Coal</i>	<i>28</i>
	2		<i>Sulphur</i>	<i>30</i>
12	3		<i>Shale</i>	
	4		<i>Coal</i>	<i>58</i>
24	5		<i>Shale & sulphur</i>	<i>59</i>
	6		<i>Shale</i>	
36	7		<i>Coal</i>	<i>75</i>
48	8		<i>Shale and sulphur</i>	
	9		<i>Coal</i>	
60	5			
72				
			<i>7' loam, fire clay</i>	
			(Note character and thickness of floor)	
			Total thickness of coal.	<i>75</i>

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

Excluded from sample: No. *230-68*
 Sample represents *60* in. _____ tons.
 Impurities? How do they occur?

Sample No. _____ Can No. _____ Lab. No. *B7M 1683*

Collector, *J. M. Grove* Coal: Survey No. _____
 Mine, _____ Co. *Williamson* Index No. *2408*

Operator,
Mine,
Located,
Location in mine,

Bush 1

miles from

Bush, Mt. L. Iron, Mt. S. P. A.

Date

June 1, 1905

Sec.

T.

R.

GRAPHIC SECTION

DESCRIPTION OF SECTION (AT POINT SAMPLED)

In.	No.	No.	(Note character and thickness of roof)	Inches
0	1		Roof coal	
	2		Coal	20
	3		Sulphur	—
12	4		Shale	20 ³ / ₄
	5		Coal	54 ³ / ₄
24	6	3	Shale & sulphur	—
	7		Shale	55 ¹ / ₄
36	8		Coal	58 ¹ / ₄
	9		Shale & sulphur	59 ³ / ₄
48			Coal	77 ³ / ₄
60	8	6		
72				
			Floor - fire clay	
			(Note character and thickness of floor)	
			Total thickness of coal.	77 ³ / ₄

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

Excluded from sample: No. 23568
Sample represents 75 in. tons.
Impurities? How do they occur?

Bulletin 22 p. 510

Sample No. Can No. Lab. No. B.M. 1688
Collector, J.W. Groves Coal: Survey No.
Mine, Co. Williamson Index No. 0408



Symbol Description Inches
 (division=3 in.) *USBM Bull 22, p 510-1*

BUSH. BUSH No. 1 MINE.

Sample.—Bituminous coal: Illinois field; (Illinois No. 12) analyses Nos. 1683, 1688 (p. 91).

Mine.—Bush No. 1; at Bush, on the St. Louis, Iron Mountain & Southern Railway.

Coal bed.—Herrin coal (No. 6). Carboniferous age, Carbondale formation. Nearly horizontal, and very even, the only disturbance being a few roof rolls. There are no clay veins. The roof is poor, a shale that does not stand exposure well, and from 1½ to 2 feet of coal is left for a roof in working. The floor is a soft gray fire clay, some of which may be shoveled up in loading mine cars.

Two sections were measured and sampled by J. W. Groves on June 1, 1905, as shown below:

Sections of coal bed in Bush No. 1 mine at Bush.

Section.....	A 1683	B 1688
Laboratory No.....	<i>Ft. in.</i>	<i>Ft. in.</i>
Roof, coal.....	2 4	1 8
Coal.....	0 2	0 2
Sulphur ^a	2 4	2 10
Shale ^a	0 1	0 1
Coal.....	1 4	0 3
Shale and sulphur ^a	1 4	0 1½
Shale ^a	1 4	1 6
Coal.....	1 4	1 6
Floor, fire clay.....	6 3	6 5½
Thickness of section.....	5 0	6 3
Thickness of coal sampled.....	5 0	6 3

^a Not included in sample.

Section A (sample 1683) was measured 1,000 feet northeast of the shaft in room 10, off east entry 1.

Section B (sample 1688) was measured 1,000 feet northwest of the shaft in north entry 1.

Notes.—The coal from this mine, like that from some others in this field, is tough, hard, and brittle, and withstands storage. The bed carries streaks of "sulphur" and gray shale. In this mine the partings are thin, of paper-like shale, and irregular. Lenticular sulphur balls occur in the coal. In 1905 the sizes of coal produced were 1, 2, 3, 4, and 5 with revolving screens of 3-inch, 1¾-inch, ¾-inch, and ¼-inch mesh. Coal passing through a 3-inch screen was washed.

For results of tests of this coal, see mention of specific tests as follows—steaming tests: U. S. Geol. Survey Bull. 290, p. 75; Bull. 332, p. 83; Bureau of Mines Bull. 23, pp. 60, 150; briquetting tests: U. S. Geol. Survey Bull. 332, p. 84; washing tests: U. S. Geol. Survey Bull. 290, p. 76; Bull. 336, p. 12.

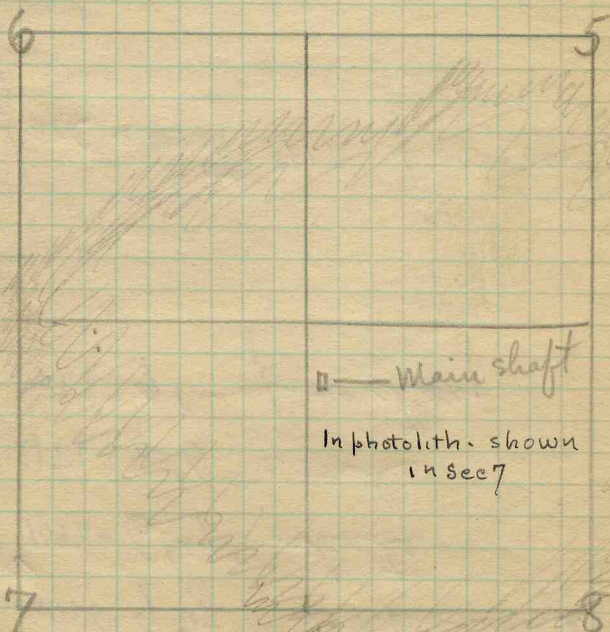
For chemical analyses see Part I of this bulletin, p. 91; also U. S. Geol. Survey Bull. 290, p. 74; Bull. 332, p. 83.

Collector, Coal: Survey No. 6
 Mine, *Bush #1* Index No. *0407.46*
 Co. *Williamson*
Q.—COAL SECTION SHEET.

Western Coals Mining Co.
Mine # 1
Closed in 1917

James J.
Mr. Dowd
min. eng.

Williamson
Co.



□ — Main shaft
In photolith. shown
in sec 7

Log of shaft
See (over)

shaded area
shows outlines
of workings

Williamson

0408

Fog of shaft

11 11' drift
 47 31' soft yel ss
 64 22' brown sand
 85 21' gray sand
 93 8' blue shale

Elev base
 #6 coal = 292
 102'8" 9'8" soapstone
 109'0" 6'4" slate
 117'6" 8'6" coal
 126'6" 9' fire clay

Surface about 410 from cont. map

