



ILLINOIS GEOLOGICAL SURVEY, URBANA

Jan 10, 1996

A little bit of 'Bunsen' Mine history:

Coal Report, 1914

'The Bunsen Coal Company is sinking a mine 2 1/2 miles West of Georgetown, Vermilion County. The hoisting shaft will be 20 feet 2 inches by 11 feet and the escapement etc etc. This mine will be a large producer'

Coal Report 1916

Mine No. 2 has been converted into a pumping station...supplies water to a tank at mine no. 3 ...pipe lines extend from this tank to other mines, viz .. Bunsenville ...making 7 miles of pipe lines.

Coal Report 1917

Change of Name:

' Bunsen Coal Co, No. 3, 4 and Vermilion, to United States Fuel Co. No.s 3, 4, and Vermilion.'

The Production Tables also lists:

United States Fuel Co. Bunsen with 29,796 tonnage. This is the first reported production for this mine.

By \_\_\_\_\_ Date \_\_\_\_\_

Quadrangle \_\_\_\_\_

County \_\_\_\_\_ Sec. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

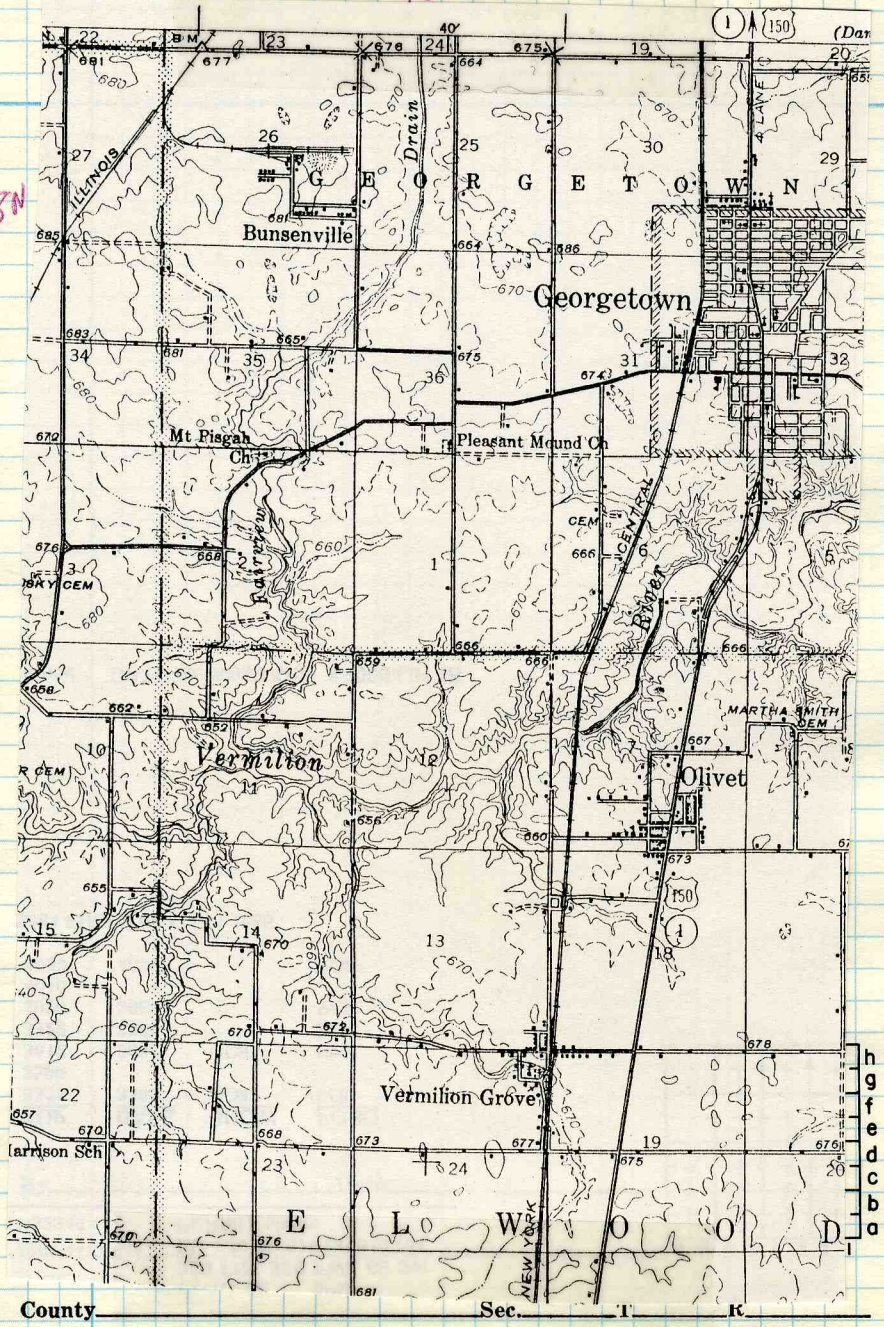
h	+	+	+	+	+	+
g	+	+	+	+	+	+
f	+	+	+	+	+	+
e	+	+	+	+	+	+
d	+	+	+	+	+	+
c	+	+	+	+	+	+
b	+	+	+	+	+	+
a	+	+	+	+	+	+
	8	7	6	5	4	3 2 1



ILLINOIS GEOLOGICAL SURVEY, URBANA

12 W

SW



h  
g  
f  
e  
d  
c  
b  
a



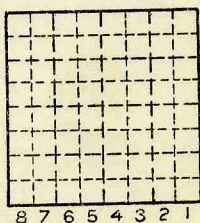
Location and Elevation Data

Location: Exact Approximate  
 (Approximate only if no trace of record of original exists)  
 Location by G.M.U.  
 Date 1945 Notebook No. 667 Page 1-2109  
 Looseleaf ref. \_\_\_\_\_  
 Map files No. 14-92-37 Also U.S. Fuel Co. map 14-92-43

Description of Location

Position in sec., 1/4 sec., 40 acres

\_\_\_\_\_ feet from North line Airshaft  
16.50 feet from East line 1750  
2575 feet from South line 2050  
 \_\_\_\_\_ feet from West line \_\_\_\_\_



Mine Notes - Nicholson McCabe 1933

S-1  
 Other description: New 1917  
1917 United States Fuel Co. - Bunsen  
1941 United States Coal & Coke Co.  
1948 ABD  
1930 Summary Coal Report  
opened 1916, Nov. Depth of shaft 200'  
Shaft sunk 1914 6'6" #6 coal  
Abd. Apr. 1947

Farm \_\_\_\_\_  
 No. \_\_\_\_\_  
 Company United States Coal & Coke Co.  
 No. Bunsen  
 County No. 525  
in tabulations

Elevation 682.8 ft.  
 By Co.

Method: Level, transit, alidade, hand level

Elevation of \_\_\_\_\_  
 Height of point above ground \_\_\_\_\_  
 Date \_\_\_\_\_ Notebook \_\_\_\_\_ P. \_\_\_\_\_  
 Looseleaf ref. \_\_\_\_\_

Map files No. \_\_\_\_\_  
 Description of item: (drill hole, mine, etc.) Shaft mine Abandoned  
Drill hole on shaft site - log in files  
 County Yermlion Quadrangle Danville Index No. 23 26 D3  
 (50167-5M-2-38) 2 149





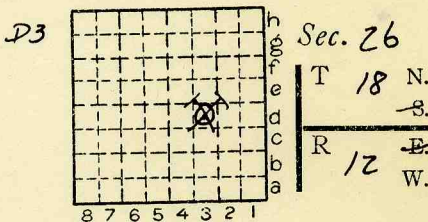
Location and Elevation Data

Location: Exact Approximate
(Approximate only if no trace of record of original exists)
Location by.....
Date..... Notebook No..... Page.....
Looseleaf ref.....
Map files No.....

Description of Location

Position in sec., 1/4 sec., 40 acres

.....feet from North line
1750 feet from East line
2050 feet from South line
.....feet from West line



Other description: AIR SHAFT

SUNK 1914 - DRILL HOLE DATA
TD-216'
COAL #7 - 3'3" - 108'3" - 579
COAL #6 - 6'11" - 200'8" - 486

Farm.....
No.....
Company "BONSEN VILLE"
U.S. FUEL
No.....
County No. 526

Elevation 686.85 ft.
By CO.

Method: Level, transit, alidade, hand level

Elevation of.....
Height of point above ground.....
Date..... Notebook..... P.....
Looseleaf ref.....

Map files No.....
Description of item: (drill hole, mine, etc.) AIR SHAFT & DRILL HOLE
LOG IN FILES A.B.D.

County VERMILION Quadrangle RIDGEFARM Index No. 232603



Mine originally operated by: (1)

Date 1917

UNITED STATES FUEL CO.

Original name or number: "BUNSEN"  
Illinois Coal Report P.

LATER OPERATORS

Date Operator Name or No.

2 1941 UNITED STATES COAL & COKE Co. "BUNSEN"

3  
4 # Mine hole  
401

5  
6  
7  
8  
9  
10  
11  
12  
13  
14

\*Also owners

#See ownership sheet

Railroad, Wagon, Strip, Idle, Abandoned

SHAFTMINE

IDENTIFICATION

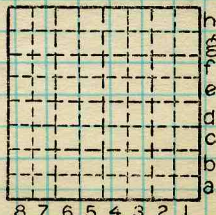
County No. 525

Coal No.

Coal Report No. 5-1

6

Quad. DANVILLE  
County VERMILION



Sec. 26

T. 18 N. 8

R. 12 W. 8

Index No.

COAL MINE OPERATOR

232603





( Sheets ) COAL PRODUCTION ( Sheet )

Period						Tons	
Mo.	Day	Year	Mo.	Day	Year		
					1917	29	796
					1918	146	077
					1919	182	413
					1920	245	231
					1921	293	376
					1922	283	973
					1923	400	732
					1924	412	959
July 1		1924	June 30		<del>426</del>	<del>934</del>	
July 1		1925	Dec. 31		534	967	
					1926	1 230	774
					1927	1 296	163
					1928	1 022	354
					1929	1 003	277
					1930		886 723
					1931		731 119
					1932		541 655
					1933		957 521
					1934	1 009	404
					1935	1 044	440
					1936	1 135	181
					1937	1 013	114
					1938		605 203
					1939		771 808
					1940		798 963

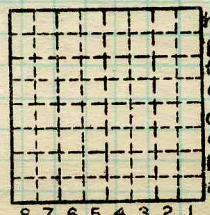
SUMMARIES

No. 1917 to No. 1947

Railroad, Wagon, Strip, Idle, ~~Abandoned~~ 1947 SHAFT MINE Sec. 26

IDENTIFICATION

County No. 525 Coal No.  6  
 Coal Report No. S-1  
 Quad. DANVILLE  
 County VERMILION



T. 18 N.  
 R. 12 W.  
 Index No.

2 326 03

COAL MINE—PRODUCTION

ILLINOIS GEOLOGICAL SURVEY, URBANA







( Sheets ) COAL PRODUCTION ( Sheet )

Period  
Mo. Day Year Mo. Day Year Tons

CONTINUED FROM PG. 1.

1941	832	056	
1942	908	483	
1943	1 218	497	
1944	1 198	718	
1945	1 023	256	
1946	814	432	
1947	290	472	Idle
1948			Abandoned

SUMMARIES

No.	to	No.	
1917		1947	23 682 673

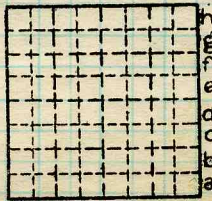
Railroad, Wagon, Strip, Idle, Abandoned 1948 SHAFT MINE Sec. 26

IDENTIFICATION

County No. 525 Coal No.

Coal Report No. 5-1  6

Quad. DANVILLE  
County VERMILION



T. 18 N.  
R. 12 W.  
Index No.

COAL MINE—PRODUCTION

ILLINOIS GEOLOGICAL SURVEY, URBANA

2326 D3







LOCATION AND ELEVATION

Location: **S** side **Spur from C+E-1** R. R.  
**E** side **C-E-I** R. R.  
 side Highway No.

on top. map Location sheet

Elevation: Method, 1. Est. ( ) \_\_\_\_\_ ft.  
 2. Inst. (kind **Company Level** ) **680** ft.

By **Company** Data sheet

DEPTH

Authority To coal **240** ft.  
 Authority Rail to rail \_\_\_\_\_ ft.  
 Top of coal above rail. (Est. Rule) \_\_\_\_\_ ft.  
 To coal **210** ft.

ALTITUDE OF TOP OF COAL

By estimated data \_\_\_\_\_  
 By instrumental data **440** ft.

Thickness

Max. in. Min. in. Aver. **72** in. **75**

GEOLOGICAL DATA

Mine notes, date **Yes** \_\_\_\_\_  
**1933** \_\_\_\_\_

Coop No. **Aver #12 (1916+)** Pyr. inv. \_\_\_\_\_ Coal Ash inv. \_\_\_\_\_

CHEMICAL DATA

Analyses Face	U. I.	B. M. <b>4</b>	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
<b>#401</b>	U. I.	B. M.	Others
Classification	<b>R.I. 119</b>	<b>U.C.I. 147</b>	

Misc. tests: Coking. \_\_\_\_\_ Cleaning \_\_\_\_\_ Boiler \_\_\_\_\_

Published descriptions:—

Railroad, Wagon, Idle, Abandoned

IDENTIFICATION

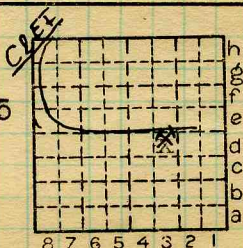
County No. **S-1**

Coal No. **5**

Quad. **150**

Part

County **Vermilion**



Sec. **26**

T. **18** N.

R. **12** W.

Index No. **2326 d3**

COAL MINE LOCATION AND DATA





Town, *Westville*  
 Local Authority, *Rivla (S.P.)*

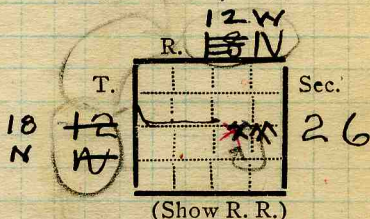
Surface alt., *680* ft.  
 Depth to coal, *240* ft.  
 Alt. top coal, *440* ft.  
 Thickness: 'Av. *72* in.  
 Max. in., Min. in.

Level: Auth., *U.S. Fuel Co.*

Method,

R. R., *C & E. I.*

Location: authority, *U.S. Fuel Co.*



*#401*  
*Over #12 (1916+)* Operator Mine Name or No.

*✓* <sup>19</sup> *26. U.S. Fuel Company* *Bunsenville*  
*208 La Salle St.; Chicago.*

Successor to

Date

Succeeded by

Date

Succeeded by

Date

**PRODUCTION.**

*Q ✓*

							U. S. No.
<i>19</i>							
<i>1927</i>	<i>1</i>	<i>296163</i>					
<i>1928</i>							
<i>1931</i>		<i>731119</i>					
<i>1932</i>		<i>541655</i>					
				<i>13</i>			
						<i>1930 #13</i>	

Geol. Notes? *No*

Coop. No.

Coal secs? *No*

Analyses No.

*22 H*

Examined by

Ref.

Coal bed name: Local *Grape Creek?*

Survey No. *6*

County *Vermilion*

Index No. *23 26.64*

*✓* **K. ACTIVE SHIPPING OR LOCAL COAL MINE.**









250693

## K. (5) Physical character of Coal,

(a) Relative hardness,

(b) Lustre,

(c) Fracture,

(d) Texture,

See

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

*Very few thin lenses of pyrite,  
a few clay partings*

See

## L. Floor: (1) Material,

(2) Thickness, ?

(3) Variation, .?

*Fire Clay dark gray shale  
Slip fractured*

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

*All machine cuttings which  
contain under clay are discarded.  
Is usually smooth but does rise  
occasionally. Does not stick to coal*

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,

Mine, *Bonsenville*Co. *Vermillion*Cola: Survey No. *6*Index No. *2326*





Symbol

Description

Inches

[1 division=3 in.]

Face sample A- 17  
Section of coal

Roof: Light gray shale with many  
plant impressions and coal stringers

8  
7  
6  
5  
4  
3  
2  
1  
0

Coal

Thin platy pyrite layer

Coal

Parting of mother coal

Coal

Parting of bone and mother coal

Coal

Coal Clay selvage

Bone coal 1 - 1 1/2"

Coal

Parting of mother coal

Coal

" " " "

Coal

" " " "

Coal

Clay 1/2 to 3/4"

Coal

Bone coal

Coal

Parting of mother coal

Coal

1/8" mother coal

Coal

Underclay, soft light gray shale  
slip fractured

Collector. *Nicholson*

Coal: Survey No.

Mine. *Bunsenville*

*Co. Vermilion*

Index No. 2326





Symbol	Description	Inches
[1 division=3 in.]		
8	Roof- Light colored shale many plant impressions and Coal stringers Sample	A-22
7	Thin platy pyrite layer  Parting of Mother coal	
6	1/4" of Bone and Mother Coal	
5	← clay selvage 1"-1 1/2" Bone Coal Sample	A-21
4	Parting of Mother Coal	
3	" " " "	
2	" " " "	
1	1/2"-3/4" Clay Band. Sample	A-20
0	1" Bone Coal Sample	A-19
-	Parting of Mother Coal	
-	1/8" Mother Coal	
	Face Sample A-17	
	Under clay - soft light gray shale, slip fractured sample	A-18

Collector. Nicholson

Mine. Bensenville

Co. Vermilion

Q.-COAL SECTION SHEET.

Coal: Survey No. 6

Index No. 2326





Symbol Description Inches

[1 division=3 in.]

	Roof in light gray shale with many plant impressions. Stringers of coal lead from seam up into roof at a very high angle ← Top of coal	Sample A-15
6	← Horizon of thin (1/8") pyrite Lenses	
5	← 1/8" Mother coal	
4	1"-2" Bone Coal (Characteristic of Mine)	Sample A-13
3	Clean laminated coal	
2	1/8" Mother coal	
1	1/8" Mother coal	
0	1/2"-3/4" Clay band. Light gray shale	Sample A-12
-	1" Bone Coal	Sample A-11
-	Bright laminated coal Breaks with clean fracture	
-	Laminated coal with pyrite streaks Under-clay - Light colored and slip fractured.	Sample 14
-	Face Sample A-16	

Collector. Coal: Survey No. 6  
 Mine. Bunsenville Co. Vermillion Index No. 2326  
 Q.—COAL SECTION SHEET.



## Impurities in Coal Bed

### (a) Bedded Impurities

1 Clay band 33'-36" above floor and persistent throughout the Mine. Said to be easily separated out of the coal but is to be questioned. Is easily freed from adjacent coal. Clay is medium hard

2 There is a continuous horizon near top of bed between bedding planes in coal in which there are many thin lenses of pyrite, up to  $\frac{1}{8}$ ' thick. This pyrite falls free from coal and goes into small sizes

### (b) Concretions

A few pyrite concretions or nodules were noticed in bed but are not prominent.

(c) No lenticular clay masses in coal other than horsebacks or rolls in Roof which are numerous. Much of this material falls with the coal and is by far the chief impurity in the coal





### (d) Joint fillings

In upper part of bed there are some joint fillings of white material. They do not add a large quantity of mineral matter to the ash. It is easily separated from coal by jar.

### (f) Interbedded Carbonaceous Material

- There are two layers of bone coal in this seam.
- 1 The lower seam of bone lying 25" to 28" above floor and is the easier to separate from the coal of the two.
  - 2 An upper layer of bone coal lies 60" to 66" inches above floor. This bone sticks to the coal quite badly and adds greatly to the ash content.

### (g) Igneous dikes - None

### (h) Mineral Veins, None other than facings

### I Petrifications





Operator, U S Fuel Co  
 Mine, Bunsenville

Date July 1 1933  
 Sec. 26 T. 18N. R. 12 W

Location in mine, Room 1 35th W. 1st SE section  
 1 3/4 mi. S. of shaft

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			Soapstone	
		1.	Coal	11 3/4
		2.	Pyrite	1/8
		3.	Coal	19
		4.	Fusain, soft	3/8
		5.	Coal	11 3/4
		6.	Coal bony	1/2
		7.	Coal	1 1/4
		8.	Coal bony	3/4
		9.	Coal	16 5/8
		10.	Coal & fusain	1
		11.	Coal	6 7/8
		12.	Pyrite & bone	5/8
		13.	Coal	6 3/4
		14.	Coal, bony	3/4
		15.	Coal	25 3/8
			Soft underclay	
			(Note character and thickness of floor)	
			Total thickness of coal.	93 1/2

93.7 / 1.375 / 11.5  
 955  
 4.420

Condition, **dry** Time, hr. min.  
 Wt. Gross, **100** lbs. Net, lbs.  
 What Nos. shipped by Co.?

Excluded from sample: No. **12 & 14** (1 3/8")

Sample represents **92 1/8**n. tons.

Impurities? How do they occur?

Face T664

(1 division=3 in.)

Sample No. **Accel weath.** Can No. **T653** Lab. No.  
**T658**

Collector, **LC & WS McCabe & E T Benson** Coal: Survey No. **6**

Mine, **Bunsenville** Co. **Vermilion** Index No. **2326**

R.—COAL SAMPLE SHEET.





Operator, U S Fuel Co  
 Mine, Bunsenville

Date July 1 33  
 Sec. 26 T. 18 N. R. 12 W

Location in mine, Block 2 1st North, main east section  
 1 miles east of shaft

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			Soapstone	
		1	Coal	19 <sup>3</sup> / <sub>4</sub>
		2	Fusain, soft	3/8
		3	Coal	15
		4	Coal bony	> 3/4
		5	Coal	10 1/4
		6	Fusain soft	1/8
		7	Coal	20 1/4
		8	Coal bony	> 1 1/4
		9	Coal	5 1/2
		10	Clay and bone	> 1
		11	Coal	24 3/4
		12	Coal (undercut)	6
			Underclay	
			105 / 300 29 2	
			(Note character and thickness of floor)	
			Total thickness of coal.	105
			Condition, dry	Time, hr. min.
			Wt. Gross, 100 lbs.	Net, lbs.
			What Nos. shipped by Co.?	
			Excluded from sample: No.	10&12 7"
			Sample represents	98 in. tons.
			Impurities? How do they occur?	

(1 division=3 in.)

Face B361 IGS408,410

Sample No. Ac. weath Can No. T652,649 Lab. No.

Collector, LC&WS McC & ET Benson Coal: Survey No. 6   
 Mine, Bunsenville Co. Vermilion Index No. 2326

R.—COAL SAMPLE SHEET.





Operator, U S Fuel Co  
 Mine, Bunsenville

Date July 1 1933  
 Sec. 26 T18N R. 12 W

Location in mine, Room 1, 16th East 4th NW section  
 1 mile north and 1/4 mi. west of shaft

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			Soapstone	
		1.	Coal	1 1/4
		2.	Clay	> 1/8
		3.	Coal	1 3/4
		4.	Clay	> 3/8
		5.	Coal	3 1/4
		6.	Clay	> 1/4
		7.	Coal	12 3/8
		8.	Fusain, mineralized	> 1
		9.	Coal	11 1/2
		10.	Coal bony	1/4
		11.	Coal	7/8
		12.	Coal bony	1/2
		13.	Coal	29 7/8
		14.	Fusain soft	3/8
		15.	Coal	17 1/2
			Soft blue clay	
			(Note character and thickness of floor)	
			Total thickness of coal.	81 1/4

81.25 ) 1.75 ( 2.15  
 16.250  
 1.250  
 81.250  
 4.375

Condition, Dry Time, hr. min.  
 Wt. Gross, 100 lbs. Net, 3 lbs.  
 What Nos. shipped by Co.?

Excluded from sample: No. 2, 4, 6, & 8 (1 3/4")  
 Sample represents 80 in. tons.  
 Impurities? How do they occur?

(1 division=3 in.)

T. 651 - Face

Sample No. B.M. Can No. V-522 Acc W. Lab. No. T 844 R

Collector, LC&WS McCabe & E T Benson Coal: Survey No. 6  
 Mine, Bunsenville Co. Vermilion Index No. 2326

R.—COAL SAMPLE SHEET.