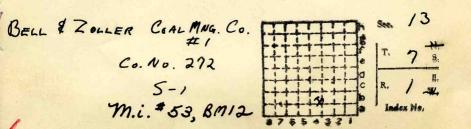


Form 180



Company		No.
	Bloomington PANTAGIAPE  FRANKLIN Cty.  Fuel plant	110.
Farm	- FRANKLIN Cty.	No.
	Fuel plant	
Elev. of		Year drilled
	will help	
For	clean mine	
Kind of records	By Linda Sickler 8-10-89 Of The Southern Illinoisan A fuel-blending facility in Zeigler	
Remarks		
TOMET ILD	will not only provide jobs, it will clean up an old mine site. International Recovery Services	
	Inc. of Culver City, Calif., plans to	
044-	Inc. of Culver City, Calif., plans to develop the facility on 25 acres of the old Bell & Zoeller Coal Mine The land is within 100 acres that	
Strata	Zeigier will develop into an industri-	ik. Remarks
	al park.  Liquid sludge and solid industrial byproducts will be blended with coal	
	slurry to make fuel for an alterna	
	tive energy source in cement man- ufacturing.	
	The byproducts will be delivered by truck and rail to the plant, where	
	they will be evaluated	
	About 100,000 tons of fuel and 50,000 tons of coal will be processed each year. The fuel will also be	
	shipped by rail and truck.	
	The Zeigler City Council has been working with International Recovery Services, which is expected to begin	
	Raymond Owens said that no danger exists to the community from blend-	
	exists to the community from blend- instruction.  "Tare will be no nuclear wastes of any sort," Owens said. "There	
	of any sort," Owens said. "There	
	will be no liquid runoff from the plant."	
	The process will remove hazard- ous wastes already at the mine site,	
	which will reduce the discharge of contaminants into the Big Muddy	
	River. The fuel will be shipped out almost	
	immediately after it is made	
SERVICE SERVICES	"There will be no large storage area," Owens said. "There will be	
Location	on the site."	
	The company anticipates the plant will operate about 25 years. About 40	
Correlations by	full-time employees will work at the plant, and about 20 part-time truck	
	drivers will be hired to haul fuel	n Sec.
	"To me, there's no real risk," Owens said. "We're in complete con- trol of this project."	+++++++ N.
Basis	trol of this project." A public hearing will be held Nov. 6 at city hall to give residents an	
	opportunity to ask questions about	E.
County	the plant. Residents can comment for 30 days after the hearing. Several Illinois Environmental	++
	Protection Agency permits and	<del></del>
	approvals are necessary before con- struction can begin.	87654321
Data sheet by		<del>-a</del> te

(2732-2M-7-41)

COAL MINE—PRODUCTION
ILLINOIS GEOLOGICAL SURVEY, URBANA

2

(34215-1M-3-30) -7

1213 A-3

COAL MINE LOCATION AND DATA

(34215—1M—3-30) 7

# Franklin (45576—1M—10-30) -7

Quadrangle Herrin

1213.3a

# COAL MINING INVESTIGATIONS COOPERATIVE AGREEMENT

Mine Name or No., 1, Leiter. mile from Zeigler Operator, 1912 Bell & Zoller Mining Co. Operator, 191 Entrance, 3 h af † Elev., 41 | ft. {above, below, Depth to bottom coal, +79 | ft. Alt SURFACE DATA. Topography Flat to Rolling. See В. Surficial materials, (1) Character (2) Thickness, (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc. See See C. Outcrops, (1) Character, (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. Notes on surrounding area, Survey & C Coal bed name: Local, State No. 1213 Collector, KD White Co. Franklin Co-op. No. #53 Mine, Leiter \*1

L.—SURFACE SHEET (Geol.)

Co. Franklin

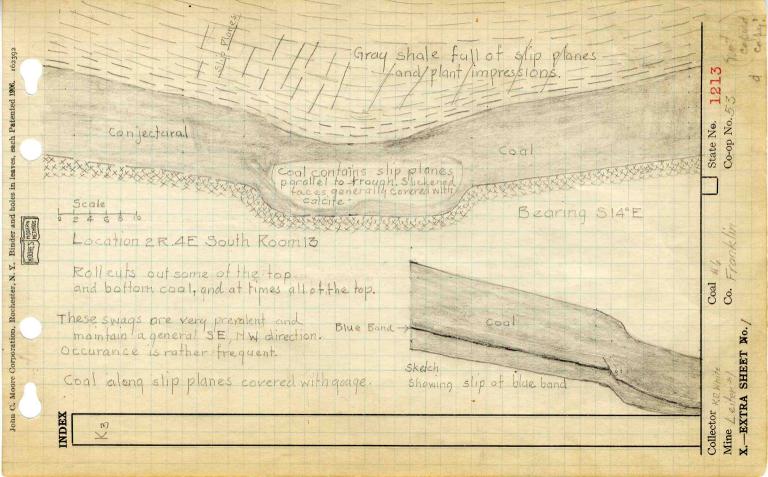
Co-op. No. 453

Mine, Leiter #1

M.-UNDERGROUND SHEET (Geol.)

	Jo	hn C	J. Mo	oore Co	rporat	ion, Re	chester	C	T		holes :	in leav	ves, eac	h Pate	ented 1	906. 1	62392	
						1			MOORES	IETHODS			0			~		
							UND	ERGR	OUNI	DA'	га (с	ont'o	1.)					
ζ.	(						of co											
		. 1	(a)	Rela	tive	hardı	iess,	Bot	om	ber	ich	hai	-des	+,+	hen	top	ber ber	ich
	M	101	0110	2 00	inch	1 50	otte.	st.	( )									
			(b)	Lust	re, [	Brig	ht.											
							ocky									C	CI	1
		6)					nded		. 1	1.1						Sec	She	2+2,
	(	0)				1	other		The state of the s	dea,								
							hur			med	1	000	100					
			(0)	1 051	1011	and j	persist	circe,	ve	19	111	179	101					
			(c)	Reje	cted.	Ve	2.5			Е	ase c	of sei	oarati	on.	Har	nd 1	picke	1
						*										See		
١.	1	7100	or:	(1) N	Iater	rial	Fir	e (	lau		s.	bel	WO					
	(	2)	Thi	icknes	ss /	2170	14											
	(	(3)	Vai	riation	1 C	)ve!	M	ine										
	(	4)	No					on, te	ender	icy to	o hea	ave,	relati	on to	o unc	lercut	tting	com-
		N	1.			value		21		1						111	1 0	
		De	210	WIII	rec	104	vast	ara L	LS.	L S	a a	ave	COL	oreo		0771	ed st	ans
																	clay	
		sh	lari	0. 7	Lir	ne	noda	les	are.	sca	Hore	2d t	hru	lowe	r 6'	of	clay.	1101
							not										1	
										1								
																See		
	(	5)	Cla	y san	iple	No. 1					- 1	Loc	ation	,	11	-00	11	1.11
2	CI	94	16	otto	m	46 C	oal				- INT	ra	AS	000	Tr)	SUL	'tos	nari
		Stra	tigi	raphy							Clar				10.5	41	ime.	6
	(	1)	Fos	silifer	ous !	horiz	ons ur	nderg	round	1,	,		oal.			01,	11110	2
							(San	mple	d)	Cla	4 0	onta	ining	coa	Istri	nger	-5	
			0.1		27				Cla	24/0	.Ls.	nod	ation				+	
			Col	lectio	n No	0.						Loc	ation	, ,	-5		+	
۷.	7	Vot	es c	n effe	ect o	f deet	drill	ing it	ı coal	min	e are	as						
7					,000	. acc	diti											
	11							1 11			-					See	-	
C	lle	cto	r, K	DWhi	12			oal#					-				213	
				ter		D GI	HEET	).  -  ·	ant	< lin				C	o-op.	140.	5-3	
١.		TIA	UL	NON	JUIN.	וכ ע	LEEL	(Ge	01.)									

Fir





INDEX

K5

Section 1st E. Harth, 1st R, Room\*1 Face

1. Top Coal up (reported) 2. Middle bench, a hard bright coal. Large lenses of glance coal, up to 2" thick scattered thru the matrix of dull coal. Lenses and bands generally a thick. Amount of glance coal about 30%. Coal blocky, very brittle. Bands of mother coal scattered thru bed, some lenses 1/2 thick bands mostly 1/4" to a knite edge. Some coldite scattered bench 5-7" 3. Blue Band 'a blackish shale 1" toz" thick .

4. Bottom beach generally similar to middle beach except, it has less glance, is harder, and contain masses of mother of coal and sulphur that render it troublesome to mine.

Cleat Face M 25°E cleat not regular Butt 1/85°E

Jack occures in bottom bench, position irregular varies from 2" to 2' thick, makes triving troublesome.

Top coal very hard bright, clean, brittle; contains a considerable number of calcite seams. A large amount of glance coal, rings under the hammer, and is the blest coal in the bed.

Section Face 2nd R Entry 4th East.

1. Top coal up (reported)

2. Middle bench generally similar to previous section except. It contains more mother coal with lenses generally 1" thick. Glance coal in smaller annount, and in smaller masses bands up to 1/2 thick. Lenses of hone coal also occure 5'-0"

3. Blue band a very carbonaceous shale nearly a bone doal, stringers of glance goal cont. sheet 3

Collector KOWHITE

X.—EXTRA SHEET No.

Coal #6

Co. Franklin

State No.

21-611

Co-op No. #53



## INDEX

Section Con't Sheet \* 2. 3 cont. scattered thru hand

0-211

4. Bottom bench clean and bright, mother coal bands scattered thru bench.

2'-9'

Section Room 12, C, S, 8 W, 1 L. Vicinity.

1. Top coal reported 5'-0"

2. Middle Bench generally similar to other sections only contain sulphur balls of very irregular and occurance 7'-0"

3. Blue Band almost a clay, bluish gray

0'- 12"

4. Bottom coal containing sulphur balls 3'-10"

Calcite fine grained, and a cream color occurs on the glance coal, never on the dull coal.

Coal under the gray shale always cleaner and brighter and generally thicker.

No black slate or Ls occure as roof; this may account for the greater thickness of the bed in this mine.

Top coal has the characteristic bright and chall appearance.

C.S.8W. 1st L. Room 7
Bottom coal very clean, solid, with considerable glance coal; practically some as top coal Blue band a grayish shale 12" thick, 21" from bottom.

coal pops off rib in certain parts of mine when struck with a hammer

Collector KAWhite
Mine Leiter#1
X.—EXTRA SHEET No. 3

Coal #6
Co. Franklin

State No. 1213
Co-op No. #53

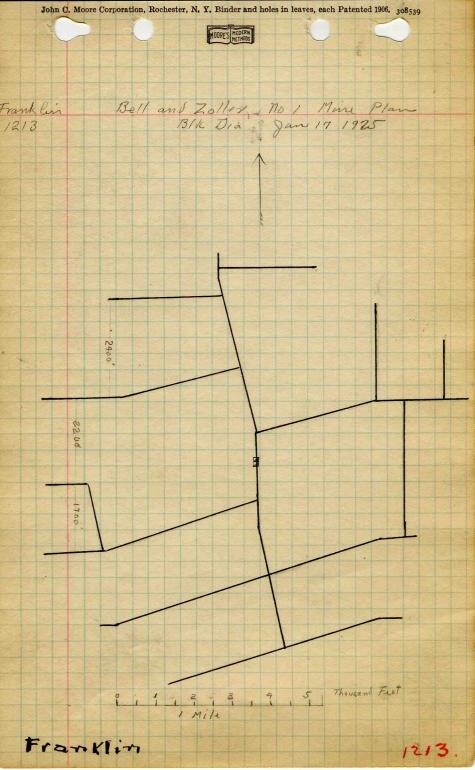
Collector KD. White Mine Leiter#| X.—EXTRA SHEET No. 4

Coal \*6
Co. Franklin

State No. 1213

Co-op No. #53





Operator, Mine, Located, Location in	V .	iles from	Beigle	Sec	Dat	e Jul T.2. C. B -680	3 P. F.	0,'0
GRAPHIC SI	ECTION	DF	ESCRIPTION	OF SECT	ION (AT P	OINT SAMPLE	D)	
In.	No.	No.	(Note chara	cter an	d thickne	ss of roof)	Inc	ches
0 ==	1-2834	Topa Cofal Bluy	Roof	sh	ali	18 56 S	4	88-1/2
24	5	not	her co	al	ane .	671/		1
36	1 7	gha				67 3/	6 4	416
48	9	Bly	ebar	4			116 3	1
60							H	
72					01			
84					1 COP	ricoldin.		
96		7	lon	A	hali			
10 8		(Not	e character			floor)		423
120			Total th	nckness	ot coal.			
137		Condition, Wt. Gross,	lbs		Time, Net,	hr. Ibs.	min.	
144		What Nos.	shipped by	Co.?				
		Sample rep	rom sample: resents 9 How do t	43.	in. our?	9 tons.		
Sample No.		Ca	in No.			b. No.Bn	.18	71
Collector, Mine,	J. 7	horso	rosis Fra	nkl	Coal: Su Index No	rvey No.	L	
R.—COAL S	AMPLE	SHEET.						



COOPERATIVE AGREEMENT

Operator,	Beel	7
010	6 10	

Date,

from t

Location in mine,

Total (vertical) depth from surface at point of sampling,

Located

In describing the beds and character of the members, note any member that is rejected by the miner. Note all clay and sulphur partings, whatever their thickness. Exclude from sample all clay and sulphur partings \(\frac{3}{8}\) inch thick or over (and even those of less thickness if they are rejected at mine or tipple).

	SECTION OF BED AT POINT SAMPL	ED.
No.	DESCRIPTION.	FEET. INCHES.
1	1 80-11	
2	trull had	2
3		
4 4	ample.	
5		
6	V	
7		
8		
9	1006 6 6	
10	act to the training to	
11 Olak	on six leet or	
12 11	solid	
13		
14		
15		
16		
17	TOTAL,	
Is coal wet or dry?	TOTAL,	
Time exposed,	hours,	minutes.
Weight,	gross,	net.
	es, and how do they occur?	Hier.
Tribo are one impariti	es, and now do mey occur.	
What are shipped?		
What are excluded from	m the sample?	
		l hed

\*Direction (N., NE., etc.).

Coal bed, †Nearest railway station

Town,

Mine,

SAMPLE NO.

I.—COAL SAMPLE SHEET. Sampler.

#4782



COOPERATIVE AGREEMENT

Operator, Bell V Mine, Bell V Date,

from†

191

Location in mine,

#4785

Total (vertical) depth from surface at point of sampling,

// ft.

1213

In describing the beds and character of the members, note any member that is rejected by the miner. Note all clay and sulphur partings, whatever their thickness. Exclude from sample all clay and sulphur partings \( \frac{3}{6} \) inch thick or over (and even those of less thickness if they are rejected at mine or tipple).

十十二十二十十十十二十十十二十十十二十十二十二十二十二十二十二十二十二十二十	SECTION OF BED AT POINT SAMPL	ED.	
No.	DESCRIPTION.	FEET.	Inches.
1	8908	14	1/2
3 0	had along it that the	1	1/5
X 4	al Qued an foliate	2	
5			
6 00	relacis strate		
7	10 4 0- 10		
8 /	THE OF E ON D.		
9			1
10	of the last of the		
12	proof mon	1/	
13	executed.	N N	
14			V
15	00		
16	oal .		/
17		1	11/2
Is coal wet or dry?	TOTAL,		
Time exposed,	hours,		minutes.
Weight,	gross,		net.
	arities, and how do they occur?		
What are shipped?			
What are excluded			
*1		al bed, t railway static	6
Town,	Mine,	Co.	
SAMPLE NO.		No.	A Section 2
I.—COAL SAMPI		3)	Q

COOPERATIVE AGREEMENT

Operator, Mine, or alle

many

Located miles\* from †

Total (vertical) depth from surface at point of sampling,

Location in mine, lace

In describing the beds and character of the members, note any member that is rejected by the miner. Note all clay and sulphur partings, whatever their thickness. Exclude from sample all clay and sulphur partings  $\frac{3}{8}$  inch thick or over (and even those of less thickness if they are rejected at mine or tipple).

No. DESCRIPTION.	FEET.	INCHES.
X 1 Cool	2	339
X 2 Black Band		100
		1 2 大
3 000 1000		12
4 Bond Rock Bone		14
5 Coal	3	10
6		
7 ( ( )		
8		
9 0 0 0		
10		
11 Tobo of		
12 1 gag not hi		
13 (Ultre de oli		
14		
15		
16		
		Van
17	M	2/1
TOTAL,		011
coal wet or dry?		
ime exposed, hours, 5	/	minute
Veight, 69 gross,		ne
That are the impurities, and how do they occur?		
hat are the impurities, and now do they occur.		
That are shipped? // 3 5		
That are excluded from the sample? 2, 4.		
	pal bed,	61
	st railway static	on.
	1 Co. F.a	3, /1
	1 1 6 6	Main
MPLE NO, ASCAN NO.	No.	3
—COAL SAMPLE SHEET. Sampler.	10	73



COOPERATIVE AGREEMENT

Operator,	ROOD
The second second second	Bullion S.

Con Go Dat

7 , 191 2

Mine,

Location in mine, Many South & en Total (vertical) depth from surface at point of sampling,

In describing the beds and character of the members, note any member that is rejected by the miner. Note all clay and sulphur partings, whatever their thickness. Exclude from sample all clay and sulphur partings winch thick or over (and even those of less thickness if they are rejected at mine or tipple).

of less thickr	ness if they are rejected at mine or tipple).					
	Section of Bed at Point Sample	D.				
27	DESCRIPTION					
No.	DESCRIPTION.	FEET.	Inches.			
1	Coal clean and bright	3	7			
2	Dirt Com		13			
3	aval bright	2	1			
4						
5						
6	100		Name and Associated to the Party of the Part			
7	(pal	Management Street Street Street Street				
8			11			
9			71/			
10			9/17/			
11		1/10				
12	the state					
13	100 doal not me	1 1				
14	Hop wal not mir					
15	and.					
16			1			
17		1	9/2			
	TOTAL,	1 7	110			
Is coal wet o		2				
Time expose	d, hours,	7	minutes.			
Weight,	73 gross,		net.			
What are the	e impurities, and how do they occur?		1			
What are shi						
What are ex-	cluded from the sample?	14	//			
	Coal		0/6/			
*Direction (N., NE., etc.). †Nearest railway station.						
Town,		Co. Fins	Allin			
	NO, CAN NO.	No. 5	0017			
I.—COAL S	AMPLE SHEET. Sampler.		1213			
#1178			NE CONTRACTOR OF THE PERSON OF			
17/0						



# Cooperative Agreement

Operator, Date, South Control Date, 3	127	191 2
Mine, Located miles*	rom	0
Location in mine, Figure 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	esta Marit	H. Comment
Total (vertical) depth from surface at point of sampling,	ft.	

In describing the beds and character of the members, note any member that is rejected by the miner. Note all clay and sulphur partings, whatever their thickness. Exclude from sample all clay and sulphur partings 3 inch thick or over (and even those of less thickness if they are rejected at mine or tipple).

	Section of Bed at Point Sampled		9
No.	DESCRIPTION.	FEET.	INCHES.
1	Conclude and & Bright	1	1100
2		4	147 1
3			
4		and the state of t	
5 6	6/200	- Andrews -	
7	Upy car		
8	V		
9			
10			
11	<b>美国科学教育员和包含的科学教育</b>		
12	# 1		
13	Top coal sample		
14	The state of the s		
15 16	The source of the		
17			
	TOTAL,	-/	10
Is coal wet o			
Time expose	1, hours,		minutes.
Weight,	54 gross,		net.
What are the	e impurities, and how do they occur?		
7771			
What are shi			
what are exc	cluded from the sample?	ed, And	11
		ailway station	. /
Town,		Co.	
SAMPLE	NO. CAN NO.	No.	W. C. C.
I.—COAL S	AMPLE SHEET. Sampler.	٥.	1213

Analysis # 4788



	COOPERATIVE AGREEMENT		
Operator, Bell Sille	Date,	3/27	, 191 2
Mine, Reigher	Located miles*	from	
Location in mine, 124,	Roming 3 lest,	6 Mester	the

Total (vertical) depth from surface at point of sampling,

Anal # 4783

In describing the beds and character of the members, note any member that is rejected by the miner. Note all clay and sulphur partings, whatever their thickness. Exclude from sample all clay and sulphur partings \( \frac{3}{6} \) inch thick or over (and even those of less thickness if they are rejected at mine or tipple).

ft.

SECTION OF BED AT POINT SAMPLED.

SECTION OF BED AT POINT SAMPLED.		
No.   DESCRIPTION.	FEET.	INCHES.
1 Coal Clean and Inight	12	
2		
3		6 1 114
4		
5		
6		
7 / / / / /		
. 8		
9/0000		
10		
11		
12		
13		
14		
15 Apparal Rample		
16		
17	2.	
TOTAL,		
Is coal wet or dry?		
Time exposed, hours,		minutes.
Weight, gross,		net.
What are the impurities, and how do they occur?	2	
What are chiened?		- 4
What are shipped? Lotal What are shipped?		
What are excluded from the sample? Coal b	1 10	1
	ed, ilway static	on.
Town, Sugar Mine,	Co. Fan	1200
SAMPLE NO. CAN NO.	No.	y ccur
I.—COAL SAMPLE SHEET. Sampler.	1 20	1213



	COUPERA	LIVE AGREEMEN.		
Operator, 8/209/2/2	A410	Date,	3/27	, 191 2
Mine, Quialin	Located	miles*	from†	21/2
Location in mine	Woot	10 Atou	The state of the s	

Total (vertical) depth from surface at point of sampling,

#4789

In describing the beds and character of the members, note any member that is rejected by the miner. Note all clay and sulphur partings, whatever their thickness. Exclude from sample all clay and sulphur partings & inch thick or over (and even those

ft.

	sample all clay and sulphur partings \( \frac{2}{3} \) inch the ess if they are rejected at mine or tipple).	ick or over (ai	nd even those
or less thicking	Section of Bed at Point Sample	D	
No.	DESCRIPTION.	FEET.	INCHES.
1	Coal stopmand bright	6	
2	Dut hony		21
3	Coal Clean and bright	N X	102
4 *			
5			
6			
7 8	(()	1 10 10 10	1/4/14
0	la comi		
10			
11	19		
12			
13			
14			
15			
16			
17	A #, 1	9	1/2
	Total,		18
Is coal wet or			
Time exposed		<b>介</b>	minutes.
Weight,	gross,		net.
what are the	impurities, and how do they occur?		
What are ship	anada / 7		
			1
Wildt are exc	luded from the sample? 2	bed 10	1
		railway statio	a.
Town,	Mine, School	Co. Fin	ntlin
SAMPLE	NO. Y GAN NO. 4K	No. 1-3	
	AMPLE SHEET. Sampler.	215	13
1111	CA TOTAL		

COOPERATIVE AGREEMENT

Location in mine, Face 4	East a Hour
Total (vertical) depth from s	urface at point of sampling,

Operator, Mine.

Located

from

In describing the beds and character of the members, note any member that is rejected by the miner. Note all clay and sulphur partings, whatever their thickness. Exclude from sample all clay and sulphur partings & inch thick or over (and even those of less thickness if they are rejected at mine or tipple).

SECTION OF BED AT POINT SAMPLED.

SECTION OF	DED AT POINT SAMPLED.		
No. DESCRI	PTION.	FEET.	Inches.
1	270		
2	mule		
3	0		
4 Anny	per,		
5			
6			
7			
8			
9 D 00 Kot	a part of on		
10 token five	fact in		
12 Dolld			
13			
15 / tag in	care.		
16			
17			
	TOTAL,		
Is coal wet or dry?			
Time exposed,	hours,		minutes.
Weight,	gross,		net.
What are the impurities, and how do	they occur?		
What are shipped?			
What are excluded from the sample?			
	Coal be	d,	

\*Direction (N., NE., etc.).

†Nearest railway station.

Town.

Mine,

Co.

No.

1213

Analysis # 4790



Symbol Description Inches (1 division=3 in.) USBU Bull .22, p 494-5

### ZEIGLER. ZEIGLER MINE.

Sample.—Bituminous coal; Illinois field; analyses Nos. 1871, 1872, and 3408 (Illinois No. 19), and analyses Nos. 5214, 5237 (p. 84).

Mine.—Zeigler; a shaft mine at Zeigler, on the Illinois Central Railroad.

Coal bed.—Herrin coal (No. 6) of the United States Geological Survey, locally called the Big Muddy. Carboniferous age, Carbondale formation. Thickness, fairly uniform, being in this mine from 10 to 12 feet, averaging 11 feet; roof, dark massive shale, which falls as rooms are worked out; floor, medium-hard light-gray shale, with fire clay in places. Shaft 420 feet deep.

The bed was measured and sampled at two points (sections A and B) by J. W. Groves and W. J. von Borries on July 20, 1905, and at another point (section C) by J. W. Groves and J. H. Robison on July 6, 1906. The sections were as follows:

# Made of the drong to Sections of coal bed in Zeigler mine at Zeigler. Lynna, A noticed

section B come together 6 feet from the point at is b rottees	hi should	Die two glue
Laboratory No. Roof, shale.	1871 Ft. in.	1872 3408
Top coal a hast abit at wante and tell odi onio sidt	Ft. in.	Ft. in. Ft. in.
Blue band by the trick some of antique, tour again and of	0 8	0 8 3 2
Mother coal and shale	on0 evil	mior of the roin
Coal Mother coal offer the sheet offered to deliberate son has the	0 11	0 11 2 0
Shale Shale State	97008 16	9 216 1 1818
Coal Blue band b	2 0 1 12	3 8 2 0
Coal of the coal of the April of the coal	2 6	2 6 3 10
Floor, shale. Thickness of bed.	11 10-3	11 10-3 11 2
Thickness of coal sampled	7 1018	7 1018 11 2
Tital 200 by my on the contract	farmor	1300 0 3200400

a Not included in sample.

b The blue band was included in sampling, as it was loaded with the coal. It burns readily to ash. It is from \( \frac{1}{2} \) inches thick.

Section A (sample 1871) was measured in room 5, off west entry 1, on the north side of the mine, 680 feet northwest of the shaft.

Section B (sample 1872) was measured in room 5, off west entry 3, on the south side of the mine, 1,050 feet southwest of the shaft.

Section C (sample 3408) was measured in room 6, on west entry 3, 1,500 feet southwest of the shaft.

The bed was also measured and sampled at two points by G. S. Pope in 1908.

Sample 5214 was taken 1,600 feet south and 475 feet east of opening, east entry 6,

off right entry 1, south side, and represented 7 feet 7½ inches of coal.

Sample 5237 was taken 1,000 feet north and 550 feet west of opening, west entry 2, off right entry 1, north face, and represented a cut of 7 feet 5 inches.

Notes.—The coal from this mine, like that from many others in this field, is bright and brittle. In this mine the bed contains little shale or pyrite. In 1905 the tipple was equipped with 3-inch, 1½-inch, and ¾-inch screens with round perforations. The larger part of the product was shipped to Chicago.

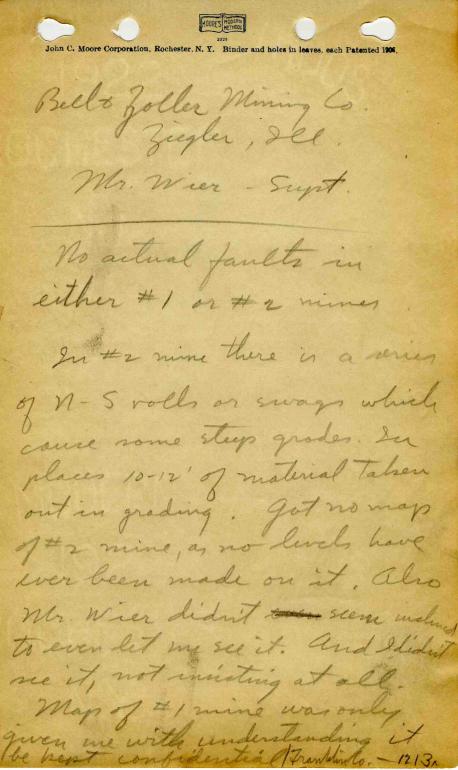
- For results of tests of this coal, see mention of specific tests as follows—steaming tests: U.S. Geol. Survey Bull. 290, p. 92; Bull. 332, p. 85; Bureau of Mines Bull. 23, pp. 60, 154; producer-gas tests: U.S. Geol. Survey Bull. 290, p. 93; Bull. 332, p. 86; Bureau of Mines Bull. 13, pp. 115, 273; coking tests: U.S. Geol. Survey Bull. 290, p. 94; Bull. 336, pp. 22, 37.



Ball & Zoller Mining Co - Ziegler, Flinois - July 15, 1932 Majormolon furnished by Erwin Gammeter, M.E. Mine Data Mine No.1 · no date on Elev. or Depet of driet shaft or air shaft malerials Shatt
Elev. TR - 407.166 Detail TR to TR 401.07
(Elev. run on top of the west rail on south side) mine No. 2 no data on present elevations of top of airshaft and main statt air shaft is divided into two compartments, one of which is used for our and the other for materials Elev. of top of Gall of votton of mat, sumportured = 79.04 Depth TR TETR = 310.3' " = 389.37
Two drive roles put down at sites of airshaft and main = 389.37 shaft whose shapes were our Surface of ground at arried hose at site of Haid shart = 387.67
Surface of ground at arried hose at site of our shart = 384.7

Used in G C. Roft & Norman act. Duel hole No.7 Zeegle Coal Co. (log in file but was not undinGCR
Jose - center sec 26- surface elevation 385.0 (Co.) MISKIE Beuch marks near mine No. 1 which can be used to run levels of shafts, etc NUC of Power source is U.S.G.S. BM 414.20
At NED of road corner at Suc see 18, 798, R2 E is U.S.GS.
BM Debout 15 feel offward and near a culcivet. doles ahedred by data in Rell of Boller office # 159 Nwc + SEC B, TTS, TRZE · no see, given ALC 8, 775, 782 E ra slut, ofven \* 161 NEC SWANET sec 8, 775, R 2 E DREW 377.0 HLTES This well also inted do # 191 on data Shorts - Vive loca-75, R2E tien in me sec 8. T found for this hale - elevation de #172 no location # 174 DECSWANWA rec 20, +73, RZE elw. 881.7 (co)

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves, each Patented 1906. 374419 HOORES MODERN METHODS Beel a Zoller Coal & mining Co - (cont.) # 194 Center NET see 13, T75, RIE Elw. 423.8 (Co.) sec 14, T75, RIE Gew. 391.06 (co) # 195 NWC SWANNA but le in me 14, Tro, RIE is correct. also littled as # 173 depth to top of eval 319'2" instead of 8'30' 6'6" coal is lower buch of split view # 96 SEC Elw. givere by Co. is DECIA, TTS, EIE 731.1 whereas dev, lury has is 413.74 pelo location better glew, 394,1 (Co) # non NW FNWASE LEC 22, T73, RIE # 203 Cutor 5 15 7 # 204 NWC NET de 2lw. 402.2 (co) 100 24, T76, RIE Elv. 365,5 (Co) ALC 25, T75, RIE to Survey doe to center NWANEZ NEC 25, TYS, RIE ofe Elw. 385 76 (co) 00C 27, T73, R7 E sic 26, 1775, 1€ \$1w. 387.67 £ 773 with of H.S # 143 rule BP 4,5 sec 26, T75, RIE EW 384,7 Collected logs of two churn drue hales NETNUT DEC 19, T73, RZE top coal 356 Thisburgs 6' used as hole for power lines to mine workings (Have Roe run divation a los ) NEXNWX uc 18, T 78, RIE top coal 12% No thisbuess quen (had as smelphole disharge) (Huse Roe run loc, 9 elevy) Three after notes and by my ther of morrow for which prom there no sogs, see if logg can in ablested from the loss of sour in ablested See me Johnston (C.E.) in about two on three weeks about getting copy of mine major with devotions on them. (Put in Bell of Zoller Mine Notes - No! mines)



John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves, each Patented 1896.

Mr. Wier - Supt of Bello Zoller Min. Co. at Zeigler rays Mr. Mitchell, (71 grs. old) partowner of Franklin Coal Co. at Royalton has drilled holes Noz " towards Mulheytown, 8? holes bad coal. Wants to get vid g it - 8 so may not tell about holes.

Franklin Co.

1213



COAL MINE NOTES.

CAGE

COUNTY Fronk lin TOWN

T. 75

R. IE

SW4SE/4. 13

OPERATOR Bell and Zoller Mining Co.

OFFICE Fisher Bldg. Chicago

MINE

TIPPLE

**ENGINES** 

BOILERS

DRUM

SHAFT HAULAGE

CARS

VENTILATION

DRAINAGE

SPRINKLING

WORKING SYSTEM

MINING METHODS

SIZE OF ENTRIES-MAIN

CROSS

ROOM ROOM NECK

SIZE OF PILLARS-MAIN

CROSS CHAIN

BARRIER

AMOUNT OF TIMBERING

SIZE

PROPORTION OF COAL UTILIZED

AMOUNT AND CHARACTER OF WASTE

SHAFT

ACREAGE OF COAL MINED

ACREAGE OF COAL REMAINING

PROPORTION OF MINE RUN AND SCREENED COAL

METHOD OF SIZING

RESCREENED

SIZES

PER CENT

PROPORTION AND SIZE OF WASHED COAL

DAILY OUTPUT

UTILIZATION

MARKETS

FREIGHT RATES

SELLING PRICES AT MINE

COAL LAND OWNED

LEASED

学的 1213

COST OF LAND OWNED

LEASED

HELD IN FEE

HELD IN FEE

ADDITIONAL NOTES







OPERATOR Belland Zoller Mining Co.

MINE

1213

ENTRANCE ELEVATION NAME OF COAL BED THICKNESS OF COAL

DEPTH TO FLOOR

MAX.

MIN.

AV.

ALTITUDE OF COAL

LOCATION OF SECTION

No.	SECTION.			SECTION
		In.		
1			SAMPLE No.	Feet
2				
3			CAN No.	
4				
5			CONDITION	
6				
7			GROSS WEIGHT	
8				
9			TIME EXPOSED	
10				
11			NOT SHIPPED	10.10
12				
Tape	Tota	al	NOT INCLUDED	

PHYSICAL PROPERTIES BY NUMBERS

ROOF

FLOOR

DIP

FAULTS, ETC.

GAS

\***443**