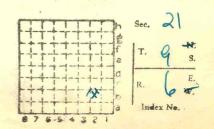
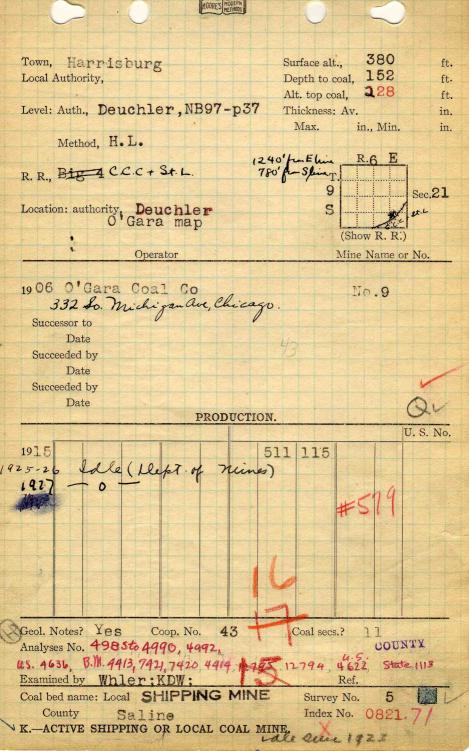
MOORES MODERN HETHOUS
253
FORM 180

Sahara ec bought up the 0 6 and 5 had bropertus in the 19385. Out the mine had been abd in 1924. There is no record of Sahara. a Sakara # 9

o gena#9

mi. # 43,7





COAL MINE NOTES.

TOWN

MAP No. 0821

s. 21 S.E. SE

COUNTY Saline T. 95

R. 6 E

OPERATOR O'Gara Coal Go

OFFICE Chicago
MINE #9

TIPPLE Automotic Dump. Three tracks

BOILERS

DRUM SHAFT

CAGE

HAULAGE

CARS

VENTILATION

DRAINAGE

SPRINKLING

WORKING SYSTEM

MINING METHODS

Electric Chain machines

SIZE OF ENTRIES-MAIN

CROSS

ROOM

NECK

SIZE OF PILLARS-MAIN

CROSS

ROOM

SHAFT

CHAIN

BARRIER

SIZE

AMOUNT OF TIMBERING

PROPORTION OF COAL UTILIZED

AMOUNT AND CHARACTER OF WASTE

ACREAGE OF COAL MINED

ACREAGE OF COAL REMAINING

PROPORTION OF MINE RUN AND SCREENED COAL

METHOD OF SIZING Shaker screen.

SIZES

RESCREENED

PER CENT

PROPORTION AND SIZE OF WASHED COAL

DAILY OUTPUT /300t Tons.

UTILIZATION

MARKETS

FREIGHT RATES

SELLING PRICES AT MINE

COAL LAND OWNED

LEASED

HELD IN FEE HELD IN FEE

COST OF LAND OWNED

LEASED

ADDITIONAL NOTES



OPERATOR O Gara Coal Co.

MINE *9

ENTRANCE Shaff

NAME OF COAL BED #5 THICKNESS OF COAL

ELEVATION

DEPTH TO FLOOR 158.5 MAX.

MIN.

AV.

ALTITUDE OF COAL 221.5

LOCATION OF SECTION 4th Room off 3rd W, off Main North. 400' NW

	No.	SECTION.		from shoft.
			In.	SE
	1 2	Praw Slate Coal Pyrite parting Coal Hord Shale	1/2	SAMPLE No. W35
The same	3 4	Pyrite parting	1/8	CAN No. 7.".
	5	Hord Shale	. 79 7/8	CONDITION Try.
	6 7			GROSS WEIGHT 35
	8			797
	9 10			TIME EXPOSED 45 min
	11			NOT SHIPPED
		Tape	Total	NOT INCLUDED 7

Thickness of coal uniform. PHYSICAL PROPERTIES BY NUMBERS

ROOF 1/2" Praw Slate then hard gray shale Good roof. FLOOR Hard gray shale.

DIP

FAULTS, ETC. No foults.

GAS Some 905.

COLLECTOR Wheeler Deuchler REFERENCE N.B 139, P. 14.



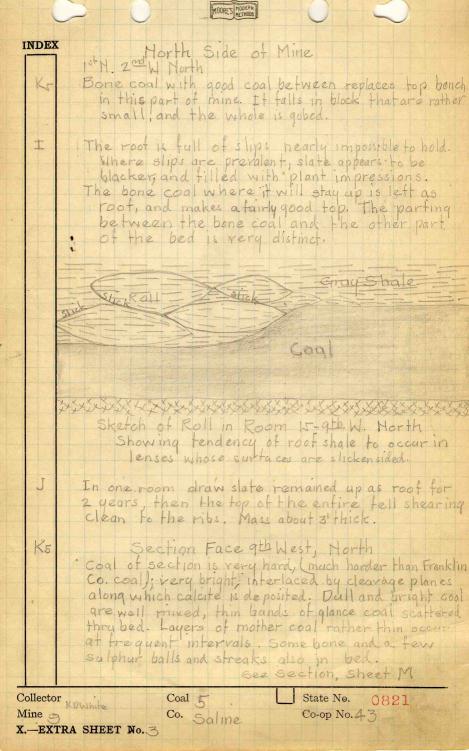
COOPERATIVE AGREEMENT Mine Name or No., #3 O'Gora Coal Co. 14 mile SW from Harrisburg Operator, 1912 O'Gara Coal Co. Sec. Operator, 191 R. R. Entrance, Shaff Elev., 380 ft. above, below. Depth to bottom coal, |58 SURFACE DATA. Topography Rolling A. See B. Surficial materials, (1) Character (2) Thickness, (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc. See C. Outcrops, (1) Character, See (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. E. Notes on surrounding area, See Survey # 5 Coal bed name: Local, 45 State No. 0821 Collector, KU, White Co. Saline Co-op. No. 43 Mine, #9

L.—SURFACE SHEET (Geol.)



	Underground D.	ATA (cont'd.)	
K.	(5) Physical character of coal in benches,		
	(a) Relative hardness, Very hard		
	(b) Lustre, Very Bright (c) Fracture, Semi-conchoidal to (d) Texture, (6) Impurities in coal, other than bedded (a) Kind, A few Sulphur balls (b) Position and persistence, Irregular	1,	See Shaafs
	(c) Rejected,	Ease of separation,	0 (1-1)
L.	Floor: (1) Material Garbonaceous Shall (2) Thickness	e Sandy, Cloy, calcareous	See Sheefs H
	(3) Variation		
	(4) Note character, condition, tendency mercial value.	to heave, relation to unde	ercutting com
	Below, shale, a sand, calcereous. It contains numerous roots or schap or muck.	clayor (ompure sandy tems; and slacks rea	lime?becure
	(5) Clay gample No.	Location,	See sheef#z
	(5) Clay sample No.	Location,	
М.	Stratigraphy (1) Fossiliferous horizons underground,		
	Collection No.	Location,	
N.	Notes on effect of deep drilling in coal mi	ine areas.	
			\$ C
	illector, KDWhite Coal 5	I State N	See o. 0821
	ine, * 9 Co. Saline	Co-op. I	CONTRACTOR OF THE PARTY OF THE
DT	HNDERCROUND CHEET (Cool)		13

INDEX Supplementary. Notes made while sampling. Coal averages a little over 6 ft in thickness, is very hard + contains suppour bands especially near top + bottom. On west side of mine, a large ant of bone (up to 11 inches) of bone makes machine mining difficult. At the places sampled the lower half of the bed contained more clean coat. than the top half. · Roof of gray shale darker than that of #6, Holds up well in some parts of the mine Toward west side, boney coal and carbonaceous strate with partings & some horizontal Ship planes, forms bad roof 4-5 inches of draw state occurs in some places under the bone. Troof is so slabby that altho It looks good, test shows it ready to fall. Very hard carbonaceous shale. Drades down into sandst? Coal # 5 State No. 0821 Collector Co-op No. 1 Mine / X.—EXTRA SHEET No.



		MOORE'S MODERN METHODS		
INDEX		outh side of 1	Mine	
K5	9th W. Morth Cleat MG2°E M27°W			
		swag on 3E, S		
	thick, at to	t mine, boney co of bed, Enti however som	rebed about	same hardnes
	1. Coal (top coal	-5 off 4 E, So		13"
	2. Coal, laminate filled with 10° with thru bed	ed, breaks up k slips, planes floor, consider	make an angle able caloite	all preces e about scattered 6'-1
1	Face 10 1. Top bence 2. Lower ben	th E. off Main h	South	13" 4"=0"
	edige bands. scattered fl streaks sca in different universally	bright, very helance coal ward bed. Sull offered thru be parts of the present, especial	ell desiminate mother coal, phur in ba d in rarying mine, Calc	d in knite 4" thick Is and amount
I.	Where top is in The shale has sulphur bal	normal, it falls application included in	in thin tabula pegrance due	pieces.
	an irregula Some of the	frequently in stringer of stringer of stringer of stringer of the stringer of	n it, and gene f coal in the ng, have a d	rally have ir centre effinite
		oal 5	State No.	0821
Mine #	9	o. Saline	Co-op No. 4	5

12620

COAL MINING INVESTIGATION

COOPERATIVE ACREEMENT

	COOLLIGITI	A TO THOMASSISSISSISSISSISSISSISSISSISSISSISSISSI	A STATE OF THE PARTY OF THE PAR		
Operator, O Gara	coal!	O Date,	June	19,	191
Mine, # 9	Located /	miles* S	from + 4	a while	bura
Location in mine, 4th M	orth off	319 Ent	South	(2500'+	t from
Total (vertical) depth from	surface at po	int of sampling,	200	ft.	18haft

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,

			and sulphur partin			
			jected at mine or		ck of over (ar	ed even those
			TION OF BED AT PO	* *	о.	
	No.		DESCRIPTION.		FEET.	Inches.
	1.	Moal	BEET.		2	0
	2 *	Blue	Band			1/2
	coal 3	Coal	Band			3
	4×	Dive,	Band		279	1/2.
1/2	7 5	Coal			3	71
12	6					
	7					
	8 9					
	Coal 10					
	11		20			
	12		AJ V			
	13					
	14					
	15					
	16					
	6.34 17					
	37.72			TOTAL,	5	3
		rdry? Dah				
	Time exposed	1,	hours,			minutes.
	Weight,		gross,			net.
		e impurities, and	how do they occu	B/46	2 Bah.	de
	48.20	2 Lead				
		pped? /- 3				
		ruded Loin the s	ample: 2.7	Coal 1	ned #1-	
施課	1 7.74	*Direction (I	N., NE., etc.).		ailway station	1.
	Town, Ha	rrisburg	Mine, OG afa	49	Co.O.Gav	ON THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.
	SAMPLE	NO, E CAN	NO. 38	0	No. 431	adon.
	I.—COAL SA	AMPLE SHEET	. Sampler.	modern	8	0821
	Itile 3	#4985		Hilly		44 April Pomping April Tolerand
	CONTRACTOR OF THE PARTY OF THE		The same of the sa	21011111111	THE RESERVE THE PARTY OF THE PA	



COOPERATIVE AGREEMENT

Operator, O Gava Coal Co. Date, June 195, 1912

Mine, O Gava #9, Located 14 miles & from Havvisburg

Location in mine, 3 4 South 4 Mest south (2006 from 194)

Total (vertical) depth from surface at point of sampling, 200 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 \(\frac{3}{3} \) inch thick or over (and even those of less thickness if they are rejected at mine or tipple).

of less thickness		ected at mine or on of Bed at Po			
No.	Di	ESCRIPTION.		FEET.	Inches.
1.	Coal			6	7%
2 •					
3					
4					
5 6					
7					
Coal 8		94			
9		21			
10					
11					
12					
13					
14					
16					
17					
6.X0			TOTAL,	6	7/2
Is coal wet or di	y? Wet				
Time exposed,		2 hours,		30	minutes.
6Weight,		gross,			net.
	purities, and h	low do they occu	r? None		
What are chiane	32 HII				
What are shippe What are exclud		mole? Note			
What are excited	ed from the sa	mple? Non	Coal bed	1 # 1	
6.40 . 13.0	*Direction (N	., NE., etc.).	†Nearest rail	lway station	
Town, Havv	sburg	Mine, 49 0'G	ava cont	Co. 0 'Gai	a Coal Co
SAMPLE N	O, Ma) CAN	NO. 28		No. Coop	#43
I.—COAL SAM	PLE SHEET.	Sampler.	· Donald		OSZI
	11 100	127	afford		
12678		VI VI	ru payer		



COOPERATIVE AGREEMENT

Date, Mine, O'Gara# 9 Located / 4 miles* Sompt Harrisburg Location in mine, Face of and West 1 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 $\frac{3}{8}$ inch thick or over (and even those of less thickness if they are rejected at mine or tipple).

	of less thickn	Section of Bed at Point Sampled.		
	No.	DESCRIPTION.	FEET.	INCHES.
	13. Coo 1 1 X	Roof-bone coal		
	2	Coal-fairly clean	/	6 18
100	3 ×	Mother of Coal		3/4
16 11 10	- 4	Coal-dirt streaked	3	1/2
	5 ×	Bone-coal Coal-fairly clean		6
	7×	Bone coal &coal		11
	8	Floor-hard carbonaceou	5 -	
	9	Shale		
67.55	10			
100	11	77 is many		
	5 12	under est removed		
of Charg	B. Co at 14	under cutter rest shipped		
	14 15 15	Shippo		Material III
MUSE	16	19		
10.00	17			113/ -(2)
	100	Total,	0	1124 (?)
		rdry? - damp		833/4?
	Time exposed	hours,	50	minutes.
	Weight,	4.0 * gross,		net.
	What are the	impurities, and how do they occur? Mother ands scattered through	hout.	sou recrea
を持ちます	What are shi	pped? 2, 4 6, part of 7		
	What are exc	sluded from the sample? / 3, 3, 7		
	51.54 (8.87)	Coal be	ed, # 57	
	7.10	*Direction (N., NE., etc.). †Nearest ra	DECISIONED CHARLES AND CONTRACTOR	BATTON PROPERTY AND PERSONS ASSESSMENT OF THE PROPERTY OF THE
	Town, Har	Z 5 A Marine Land Land Land Land Land Land Land Land	The second of the second of the second	era Coal Co
3	AMPLE NO	AMPLE SHEET. Sampler.	No.	30821
	#49		Smi	th.
No.		93/4-12/4-7/14		The Age Assessment Open Con-
	12321			



COOPERATIVE AGREEMENT

Operator, O'Gara Coal Co. Date, June 19, 1912

Mine, O'Gara # 9 Located 14 miles* S from # Harrisburg

Location in mine, Room 40 - 2nd West Worth

Total (vertical) depth from surface at point of sampling, 150 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 \(\frac{3}{8} \) inch thick or over (and even those of less thickness if they are rejected at mine or tipple).

		SECTION OF BED AT POINT SAMPLED.		
	No.	DESCRIPTION.	FEET.	INCHES.
	<u> </u>	Roof- Gray shale		
1	2.	Draw Slate		6
	8 3	Goal - Bright		7 4
	coal 44	Bone		11
	5	Coal-Clean Bright Sulphur		72 0
	8 6+	Coal - laminated-dirt bands		21, 30
	X 8+	Sulphur		15 2
	9	Codl-Clean	4	82
	10	Floor-Hard gray shale		
	Coal 11	1.00.		
	12		2	Ç
	13		T.	
	14	STATE OF THE STATE		
1	15			
	16			1
	(a)	Total,	7	42
	Is coal wet or	dry? - dry /	9	36.142
	Time exposed			minutes.
	Weight,	70# gross,		net.
1	What are the	impurities, and how do they occur? Sulphui thands through coal - proceedings	ras p	frite -
	on)	fractures - P	ares	07 62304
M.	what are shi	pped? 3, 5, 7, 9		
	What are exc	luded from the sample? 1, 2, 4, 6, 8 Coal be	1 1 5	
	175 15	*Direction (N., NE., etc.). †Nearest ra		in.
	Town, Har		Co. 0 %	dra CoulCo
	SAMPLE	NOTH CAN NO. St. D (+3	No.	3 0821
	I.—COAL SA	AMPLE SHEET. Sampler. Nebele	Smith	5
	4408	A CONTRACTOR OF THE PARTY OF TH		

93/2-10/2=8.



COOPERATIVE AGREEMENT

Date, Located /4 miles* Location in mine, Face of 4th East of 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 \(\frac{3}{3} \) inch thick or over (and even those of less thickness if they are rejected at mine or tipple).

	SECTION OF BED AT POINT SA	MPLED.	
No.	DESCRIPTION.	FEET.	INCHES.
1 × 2 × 3	Roof-grayshale drawstate Coal-bright with dirt	bands 2	10
4 5 6 ×	Coal-bright with dirty Mother of Coal-Sof Coal-dirt esulphur bands Floor-hardgraysha	ed 3	岩兰
8 9 10			
Coal; 10 11 12 13			
14 15 16			
6.02	Total	AL, 6	2
Time exposed	hours, gross, impurities, and how do they occur? - m	50	minutes.
What are shi	ounds of pyrite oeda	ledatint	ervals
	luded from the sample? 1, 2, 6	Coal bed,	on.
Town, Har SAMPLE I I.—COAL SA # 490	Mine, O'Gara# NO. SAN NO. StD 3 AMPLE SHEET. Sampler. Ne be	No. 4	3 0821



COOPERATIVE AGREEMENT

Operator, OGara Coal Co. Date, June 20, 1912

Mine, OGara# 9 Located 70 miles* 5 from Harris burg

Location in mine, Face of 1st South off 9th West Worth

Total (vertical) depth from surface at point of sampling, 80 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 $\frac{3}{6}$ inch thick or over (and even those of less thickness if they are rejected at mine or tipple).

of less thicl	ness if they are rejected at mine or tipple). Section of Bed at Point Samples		and over those
No.	DESCRIPTION.	FEET.	INCHES.
1 2 2 3 3 × 4 × 5	Bone coal lean	6	3
6 7 8 9 10 11 12			
3 13 14 15 16 17	or dry? — wet		
Time expos	ed, hours,	0	minutes.
Weight,	40 gross,		net.
What are si	nipped? 2 Coluded from the sample? 3	-+4	streaks
50-73	Coal		
1.—COAL	NO JON NO. IS. G. N. 47	No. 7	iraloalCo. 30821
井廿	992 Nebel	& Sm	Min



COOPERATIVE AGREEMENT

Operator, OGara Coal Co. Date Jones Mine, O'Gara#9 Located 12 miles* 5 from Har Location in mine, Room 40, 2nd West North Total (vertical) depth from surface at point of sampling, 150

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.

	sample all clay and sulphur partings $\frac{3}{8}$ inc		
	ss if they are rejected at mine or tipple).		
	SECTION OF BED AT POINT SAI	MPLED.	
No.	DESCRIPTION.	FEET.	INCHES.
1,			The Labor
2			
3			
4	12		
5	12		
6	TR/K		
7	**		
8	70/6		
9			
10) am	
11	19	7	0/
12			10
13			
14			
16			
17			
	Total	AL.	
Is coal wet or			
Time exposed,	hours,	0	minutes.
Weight,	4 [#] gross,		net.
What are the	impurities, and how do they occur?		
What are ship			
What are exclu	uded from the sample?	# 5	
		Coal bed,	
m //		rest railway station	ra CoalCo.
Town, Har	No. S.T.D. 4		
SAMPLE INC	0,000	No. 4	0821

I.—COAL SAMPLE SHEET. Sampler.

Nebel & Smith

Operator, Ogaca Coal Co Date august 27,11 Mine, no % miles from Located, Location in mine, Jace GRAPHIC SECTION In. No. No. (Note character and thickness of roof) Inches blue shale 73 Floor, hard clay 34,58 (Note character and thickness of floor) Total thickness of coal. Time, Condition, hr. min. Wt. Gross, 1bs. Net, 1bs. What Nos. shipped by Co.? 4 Excluded from sample: No. Sample represents 7 in. tons. Impurities? How do they occur? 13. M. bulleten 85 Lab. No. D Can No. Sample No. Coal: Survey No. 2 Collector, Index No. 0821

12,640

I amend	
MADDER	MODERN
MOORE'S	METHODS

Operator, O'Ga Mine, No. 9	ra Coal Co		1907 GE
Located,	miles from Harrishu	ng on Bigs for	ir
Location in mine, 2	ooopt. S. W. yshaft.	from 250 M/M	+ 4 on S. aid
GRAPHIC SECTION		ection (AT POINT SAMPLED)
In. No.	No. (Note character	and thickness of roof)	Inches
	Roof excel	lant of Randsto	
0 :::: 1	Coal &	7 7 1/4	7/4
22	Sulphur	7 1/2	14
3	Coal	51 1/2	
	nother coal	51 7/8	18
	tilletion	82 7/3	31
1 4	loal,		191
	Blue band	84 1/8	124
8	Cool.	87 1/8	
+ 10	mother coal		
	Cral		
4 8 8			
	1 9 1		
7.55	Floor- Land of	ire clay	
P (3)		The second second	
33.85	(Note character and	thickness of floor)	011.
	Total thickn		818
	Condition,	Time, hr.	min.
51.45	Wt. Gross, lbs.	Net, lbs.	
	What Nos. shipped by Co.	7,8	
7.15	Excluded from sample: No	7	
1000	Sample represents 85	y in. tons.	
	Impurities? How do they		
Sample No.	Can No.	Lab. No. 44	13 B.m
		A PARTICULAR DE CONTROL DE CONTROL DE SON A DE TRES CONTROL DE CON	5 3
Collector, J(. M. Mine, No. 9 0	'Gara CoSaline	Index No. 0821	

R.—COAL SAMPLE SHEET.

	ra Coal Co	Date		
Mine, 14. 9	7/	Sec. 21 T.	9,5 R.	9 E
	miles from Harris	yung ou	Dig ?	tour
Location in mine,	Looft. HE Js	haff, ro	on D, 6	4
GRAPHIC SECTION	DESCRIPTION OF	SECTION (AT POI	NT SAMPLED)	
In. No.	No. (Note charac	ter and thickness	of roof)	Inches
,	Coal,			5.
2	helphur			14
2 2	could		191/2	14 14
5	Luckhur 1		20	1/2
+ (mogher coan		75	55
7	Sulblus			1
8	Coal		851/2	10
7				
7.40				
31.28	(Note character of	and thickness of fl	204)	
		ckness of coal.	551)	854
			COMMERCATION AND THE COMMERCENCY	057
Table 1	Condition,	Time,	hr.	min.
54.74	Wt. Gross, lbs.	Net,	lbs.	
	What Nos. shipped by	Co.?		
			1	
6.58	Excluded from sample:	No. ZITI	the same of the same of	
444411	Sample represents 84 Impurities? How do the	in.	tons.	
12.0	Bulletin			
Sample No.	Can No.	THE RESIDENCE AND PERSONS ASSESSED.	No. B. 7	1.7421
Collector, G &	Pople	Coal: Surv	THE REAL PROPERTY OF THE PARTY	
Mine, O Gara	No.9 Co.Sali			
R.—COAL SAMPLI	E SHEET.			

Operator,)	O'Gara Coal	Co Date		
Mine, No. 9		Sec. 21 T.	95 R. 6E	
Located,	miles from	Harrishur	e ou Dig tour	-
Location in mine	e, 3000 ft sng s	elast, ST M	m t	
GRAPHIC SECTION	ON DESCRIPT	TION OF SECTION (AT POI	NT SAMPLED)	
In. N	No. No. (Note	character and thickness	of roof) Inches	
0	Coal		#2	
	2 sielphur		3/ 553	3
	4 way		38 4 3 3 74	
	of hather es	al	59 1/4	
Gaa.	6 Coal		83 1/ 2474	
	1) Sulphon		1/2	
	8 Cohel		98 374	
5				
7				
		racter and thickness of fl		
	10	otal thickness of coal.	188	
	Condition,	Time,	hr. min.	
	Wt. Gross,	lbs. Net,	lbs.	
	What Nos. shipp	ed by Co.? 2, 4, 7		
	Excluded from sa	imple: No. 2, 4, 1		
	Sample represent Impurities? How		tons.	
+ + + + +	Bullety			
Sample No.	Can No.	THE RESERVE THE PARTY OF THE PA	No. B. M. 7420)
Collector, 9	S. Poke	Coal: Surv	rey No. 5	
		Saline Index No.	0821	
R.—COAL SAM	IPLE SHEET.	* 1		

Mine, Wo. 9	7	a Coal Co	Sec.		lan 9 / 95 PR.	907 6E
Location in mi	ne,/M	roftn + 20	04671	aft	64oun	side
GRAPHIC SECT	TION	DESCRIPTI	on of section	N (AT POIN	T SAMPLED)	
In.	No.	0.	haracter and		f roof)	Inches
		Noof, e	ycellen	t, I sai	relston	13.
		Sulphur				14
	3	Coal				16 18
	4	mother o	coal			
	5	Sulphi	v			21 39
	9	Coathy			40 5/8	1/2
	8	Blike h	and			
	90	Coal			51 19	101250
	10	mother i	oor		82/3	312
		wa				JI Z
7,5)		Floor, L	ard fin	ie cla	y	
32.81			cter and thic		or) 74?	9478?
52.20		Condition, Wt. Gross, What Nos. shipper	lbs.	Time, Net,	hr. 1bs.	min.
748		Excluded from sar Sample represents Impurities? How	813	7, 8 in.	tons.	
Sample No.	/ 40	Can No.	ENGLISHED BURGETS VALUE OF THE	Lab.	No. B.M	4414

Collector, K. M. Way
Mine, O'Gara No. 90 Co. Saline R.—COAL SAMPLE SHEET.

Coal: Survey No. 5

Index No. 0821

O'Gara Coal Co. Date August 27, 1911 Mine, 70. miles from Located. GRAPHIC SECTION In. No. No. (Note character and thickness of roof) Inches I loon- Rand clay 7.12 (Note character and thickness of floor) Total thickness of coal. Condition, Time. hr. min. Wt. Gross, lbs. Net. 1bs. 50.68 What Nos. shipped by Co.? Excluded from sample: No. Sample represents tons. Impurities? How do they occur? Sample No. Can No. Lab. No. 3/1 Coal: Survey No. Collector, Mine, O'Gara No 9 Index No. 0821 R.—COAL SAMPLE SHEET.

12,481

v	8																		
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	Mine,				.9							Sec.				S	R.	6 I	S
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		Owner and		_			**********	COLORUS (AMEZIN	-	-	-				-	-	9 3	09	

Sample No. W-35 Can No. Lab. No. 1113
Collector, Wheeler NB 139 p 14 Coal: Survey No. 5
Mine, O'Gara 9 Co. Saline Index No. 0821

R.—COAL SAMPLE SHEET.



12-				
V	Underground Data			
F.	Thickness of rock above bed worked,			
	(1) Important variations,			
		See		
G.	Note presence of strata having important effect on mining	7.		
		See		
	(1) Position, Above Coa			
	(2) Character, Dark gray shale			
	(3) Persistence, Entire Mine			
	(4) Other workable coal beds,			
		See		
H.	Cap rock,		SECTION	
	(1) Thickness,	Ft. In.	Name Index	Sym
	(2) Height above coal,			
	See		Starte filled	
I	Immediate roof Darkgray shale + Bone Coal		with plantim	ression
	(1) Thickness, (2) Contact with coal,	man)		
Ba	ne Coal ota4' Yes	Dull + glanca		6
200		mixed		0
D	(3) Horizontal variation,	Little		
Do	he coal occures only on as roof on 1,2,3,4 See Sheets	Mother -		-
J.		Contract	-	
A	very dark shale 2" to 24" with Coal + Shale	Consid- orable		5
	(3) Persistence	Mother		1.7
Le	nticular thickens and thins irregularly.	Caal .	,011	1
K.	Coal bed: Max. 8'-0" Min. 5'-0" Av. 6.83' inches			
	(1) Benches, On a	Little	Street Barrie	4
	(a) Position,	Mother		
	(a) 1 0310011,	Featurds		
	(h) Posistanas	quanee	- 9/	
	(b) Persistence,	1	- Y	31
	See	pands	and the same of th	
	(2) Bedded impurities, kind, position in benches, persist-	7-5	= /= -	
	ence, ease of separation.	00		
	41-	000	5/4/=	
-	A tem sulphur and jack bands	her	* I	2'
	Hand picked.	70	4	
		De	9	-
	See	43	100	
	(3) Irregularities in continuity of bed (due to deposition,	te	2	411
		da	5 /	
	erosion, or movement).	500	7/17	Jack H
	Slips and Rolls See Sheer3	11.4	A-A-	611
	Hard to hold Roof See	文本公	Fire change	XXXX
Co	llector, Kowhite Coal, 5 Sta	te No.	0821	120
Mi	ne, 9 Co. Saline Co		0.43	1
	-UNDERGROUND SHEET (Geol.)		70	

Room 3rd SE st. Face. 10th E off Mains, \$ 45. off 4 E.S. dr. st. B.coal 3" 13" Top. coal Top 13 C. var.thk, 10" - T+q. 48" Lower . bench Lower . 68" Tr bench lam nated +filled with entire bed Slipis. filled with consid. Calcite ship faces

White

Sym ı divi

Sample.—Bituminous coal; Illinois field; (Illinois No. 34) analyses Nos. 4413, 4414, 7420, 7421 (p. 90).

Mine.—No. 9, a shaft mine at Harrisburg, on the Big Four System.

Coal bed.—No. 5 of the Illinois Geological Survey. Carboniferous age, Carbondale formation. Roof, excellent, of sandstone; floor, hard fire clay.

The bed was measured and sampled at two points by K. M. Way on January 9, 1907, as described below:

Sections of coal bed in No. 9 mine at Harrisburg.

The transfer of the second sec	- Sulphur
Section	A In B
Laboratory No	4413 4414
Roof, sandstone.	Ft. in. Ft. in.
Coal	0 71 0 13
Sulphur	3 8 1 4
Mother coal.	0 4
Sulphur	8 0 1
Coal Coal	2 7 9
Sulphur a	0 11
Blue band a	0 11 data
Coal.	0 3 0 101
Mother coal	in delia
Coal	2 71
Floor, hard fire clay.	and a second platfill
Thickness of bed.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Thickness of coal sampled	1 18 6 98
The state of the s	DBO 10 8880 3510 F.

a Not included in sample.

Section A (sample 4413) was measured 2,000 feet southwest of the shaft, in room 25. off west entry 4 on the south side, at the state of the state of a solution was 1007 of the south side.

Section B (sample 4414) was measured 1,000 feet north and 200 feet east of the shaft, in east entry 4 on the north side. A value along at nodes are 2007 strong

The bed was also measured and sampled at two points by G. S. Pope, as described

aboratory No.	7420	7421
네트스의 여행은 발표를 발표하는 것이 모임을 가는 것이 되었다. 나는 사람이네는 것이 없어 없다.	Ft. in.	Ft. in.
Coal. IM IN IN MORTHUR BLUE WAS MAN OF BARMAN	$\begin{bmatrix} 0 & 2\frac{1}{2} \\ 0 & \frac{1}{2} \\ 4 & 7\frac{3}{3} \end{bmatrix}$	0 1
Coal	4 11	0 1/2
Aother coal	. U I	4 7
Coal Julphur #	0 1	0 10
omons cost; Illinois held; (Illinois No. 27) amalyzes Nos. 2897	HINTS	7 11
Thickness of bed	7 3 2	780
penaled and reason consider A to across the do a stoictails blottonized small A-	wenter A	a pilat J

a Not included in sample.

Sample 7420 was taken 3,000 feet southwest of shaft, off south entry 4, off west entry 4.

Sample 7421 was taken 1,200 feet northeast of shaft, in room 3, off east entry 6.

For results of tests of this coal see mention of specific tests as follows-steaming tests: U. S. Geol. Survey Bull. 332, p. 123; Bureau of Mines Bull. 23, pp. 61, 159; washing tests: U. S. Geol. Survey Bull. 332, p. 123; Bull. 336, pp. 14, 16; coking tests: U. S. Geol. Survey Bull. 332, p. 124; Bull. 336, pp. 22, 28, 38.

For chemical analyses see part I of this bulletin, p. 90; also U. S. Geol. Survey Bull. 332, p. 123.

Collector.

Mine.

Coal: Survey No. 5

Index No.