

GREY METAL

COAL 2'-3"

DIRT 0'-11 1/2"

COAL 0'-3"

FIRECLAY 0'-6"

DIRT 0'-7 1/2"

COAL 0'-3"

DIRT 0'-11 1/2"

COAL 0'-6"

DIRT 1'-11"

COAL 0'-8"

FIRECLAY

SCALE  $\approx$  1/2 INCH = 1 FOOT

"A" COAL (2260 YDS. WEST OF HESKETH)

INFERIOR COAL ----- 3"  
 DIRT ----- 3"  
 INFERIOR COALS ----- 6"  
 DIRT ----- 10"  
 INFERIOR COAL ----- 4"  
 DIRT ----- 8"  
 DIRT ----- 4"  
 INFERIOR COAL ----- 10"

DIRT ----- 4'-0"

COAL ----- 4'-4"

DIRT ----- 3"

COAL ----- 1'-2"

DIRT ----- 1'-7"

COAL ----- 3'-8"

COAL

DIRT

COAL ----- 4'-4"

DIRT ----- 3"

COAL ----- 1'-2"

DIRT ----- 1'-7"

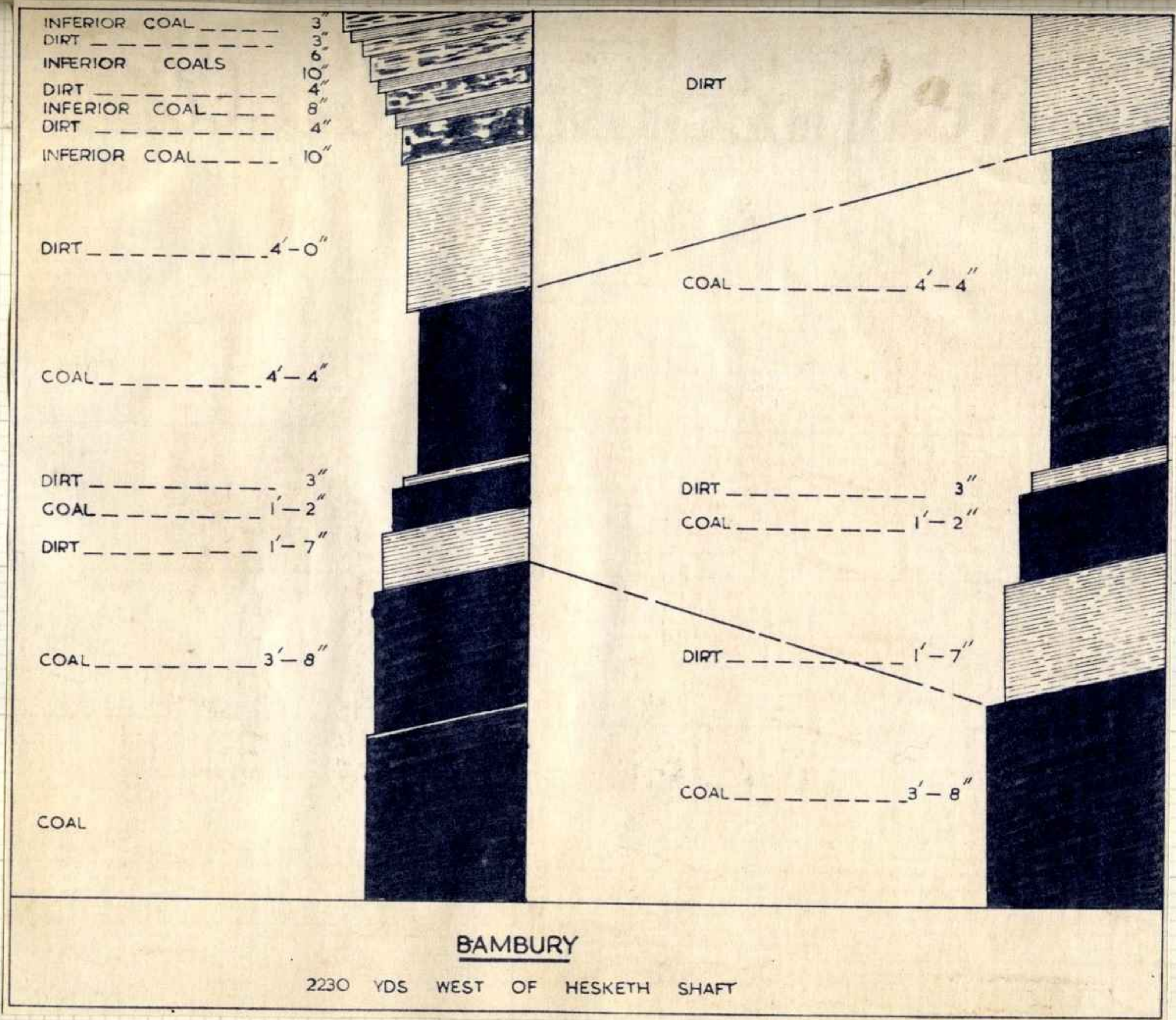
COAL ----- 3'-8"

425  
142

Bam. 3'-3"  
 H.L. 8'-2"  
 T.F. 6'-7"

BAMBURY

2230 YDS WEST OF HESKETH SHAFT



COAL 1-2"

DIRT 2"  
COAL 2"  
DIRT 2"

COAL 7"

DIRT 2"  
COAL 3"  
DIRT 3"

COAL 6"  
DIRT 1 1/2"

COAL 1-10"

DIRT 4"

COAL 8"

DIRT 4"

COAL 1-0"

DIRT 4-0"

COAL 4-4"

DIRT 3"

COAL 1-2"

SLAG 1-7"  
(Water in bottom)

COAL 3-8"

DIRT BAND 0 1/2"

22' 9 1/2"

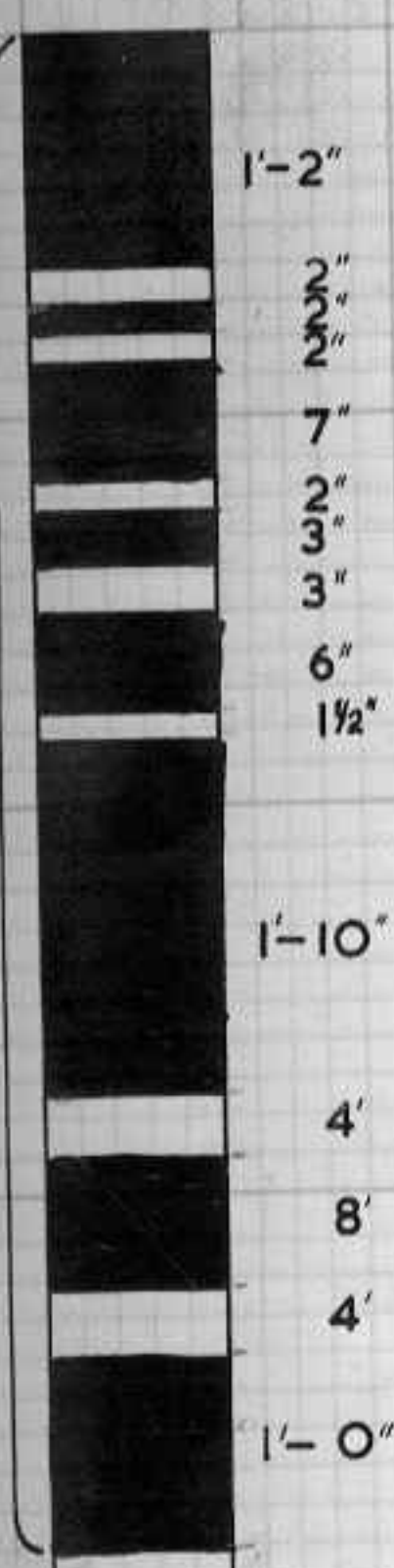
Inferior Coals

Bambury Coal.

Section of Bambury  
318 yds W of No 11  
Hesketh Junction

130'-0" above floor  
of Cockshead Coal

ALTERNATING BANDS  
OF INFERIOR COAL  
AND DIRT



SECTION OF BAMBURY COAL  
318 YDS. WEST OF No. II HESKETH  
JUNCTION.

DIRT 4'-0"

SCALE  $\frac{1}{2}$  = 1 FOOT

COAL 4'-4"

**BAMBURY  
COAL**

DIRT 3"

COAL 1'-2"

DIRT 1'-7"

COAL 3'-8 1/2"

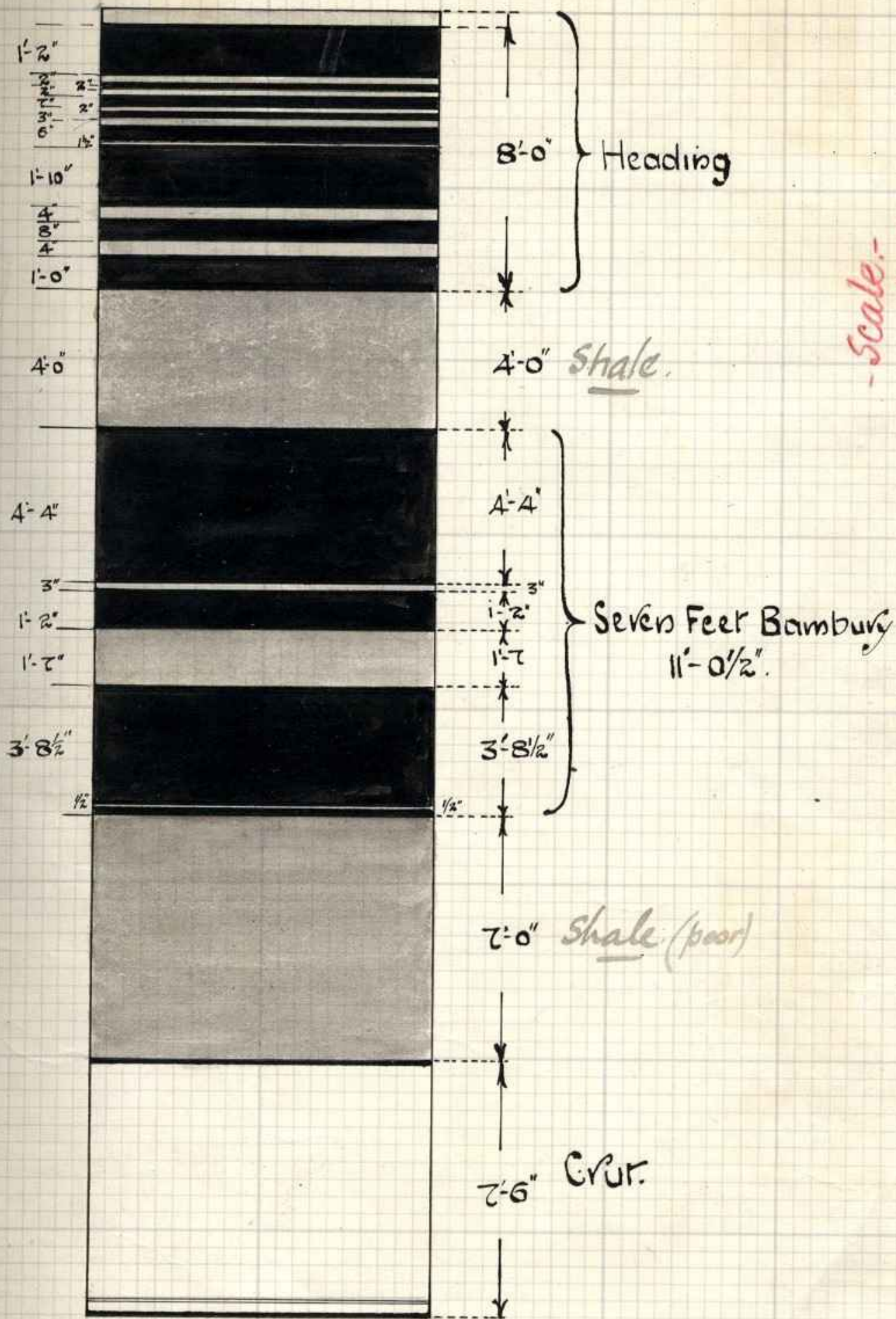
DIRT BAND 1/2"

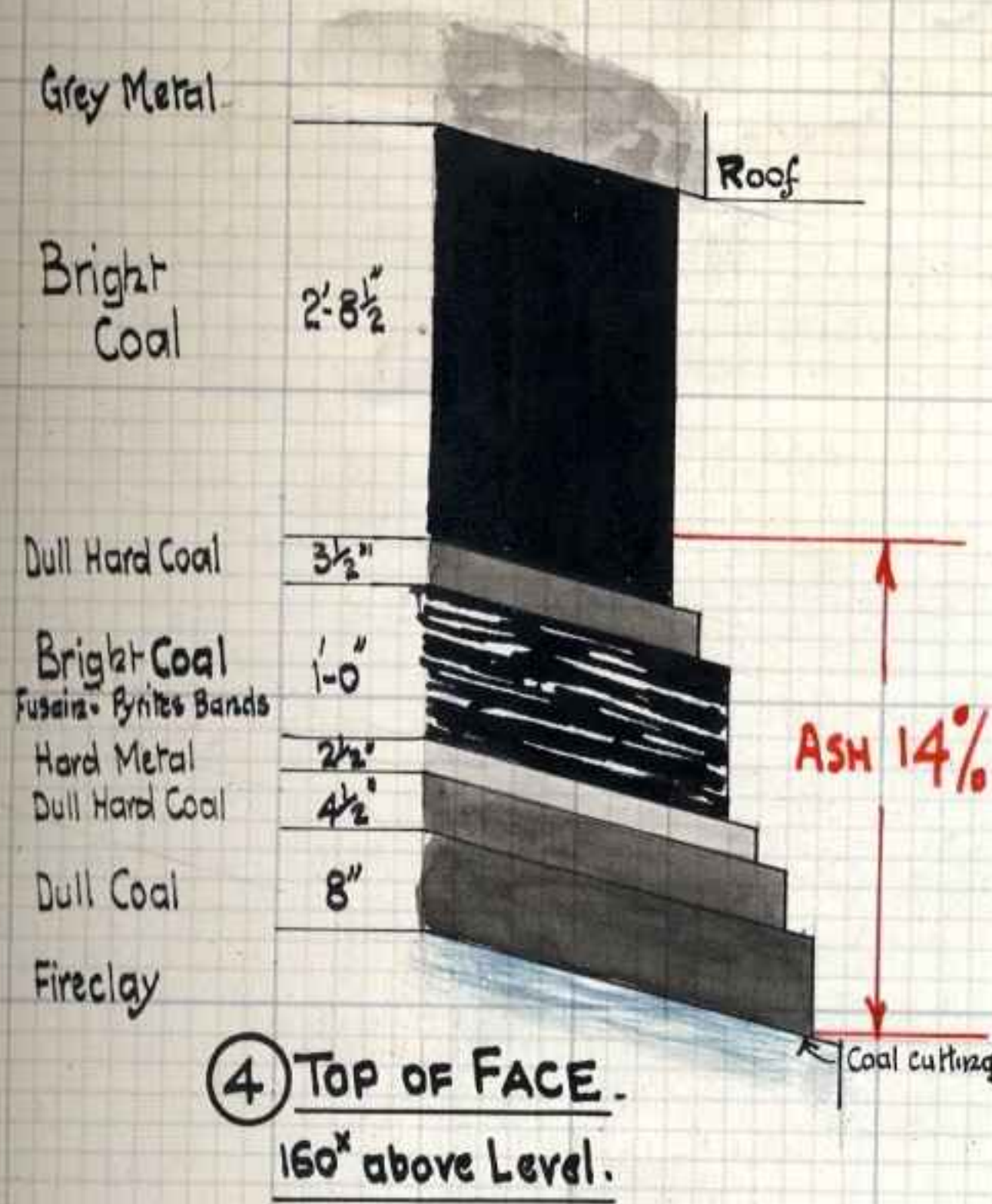
130' ABOVE FLOOR  
OF COCKSHEAD COAL

Whitfield Colliery.

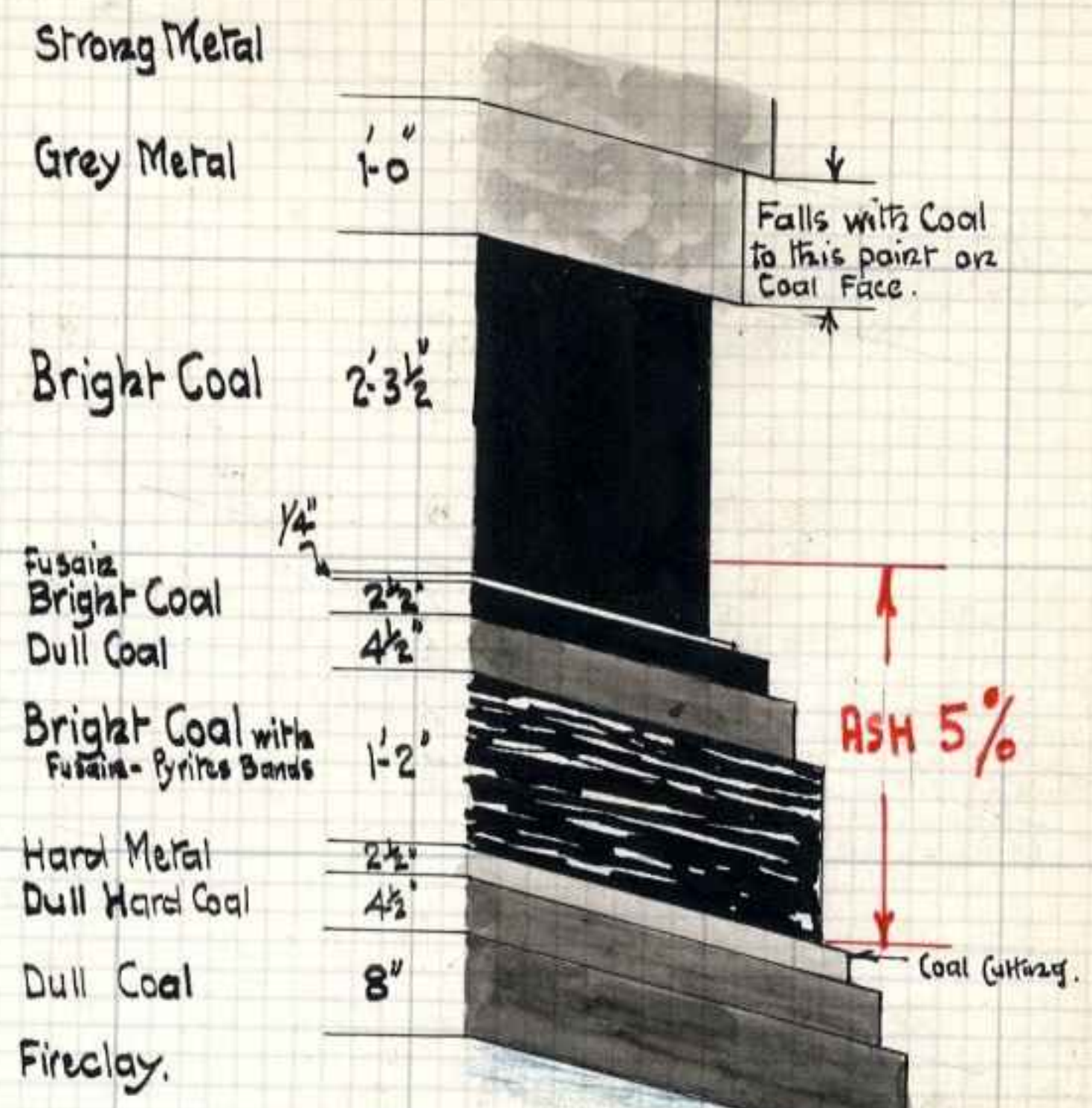
Section  
of  
Bambury Coal.

318 yds. West of Hesketh  
N<sup>o</sup> 11 Junction.

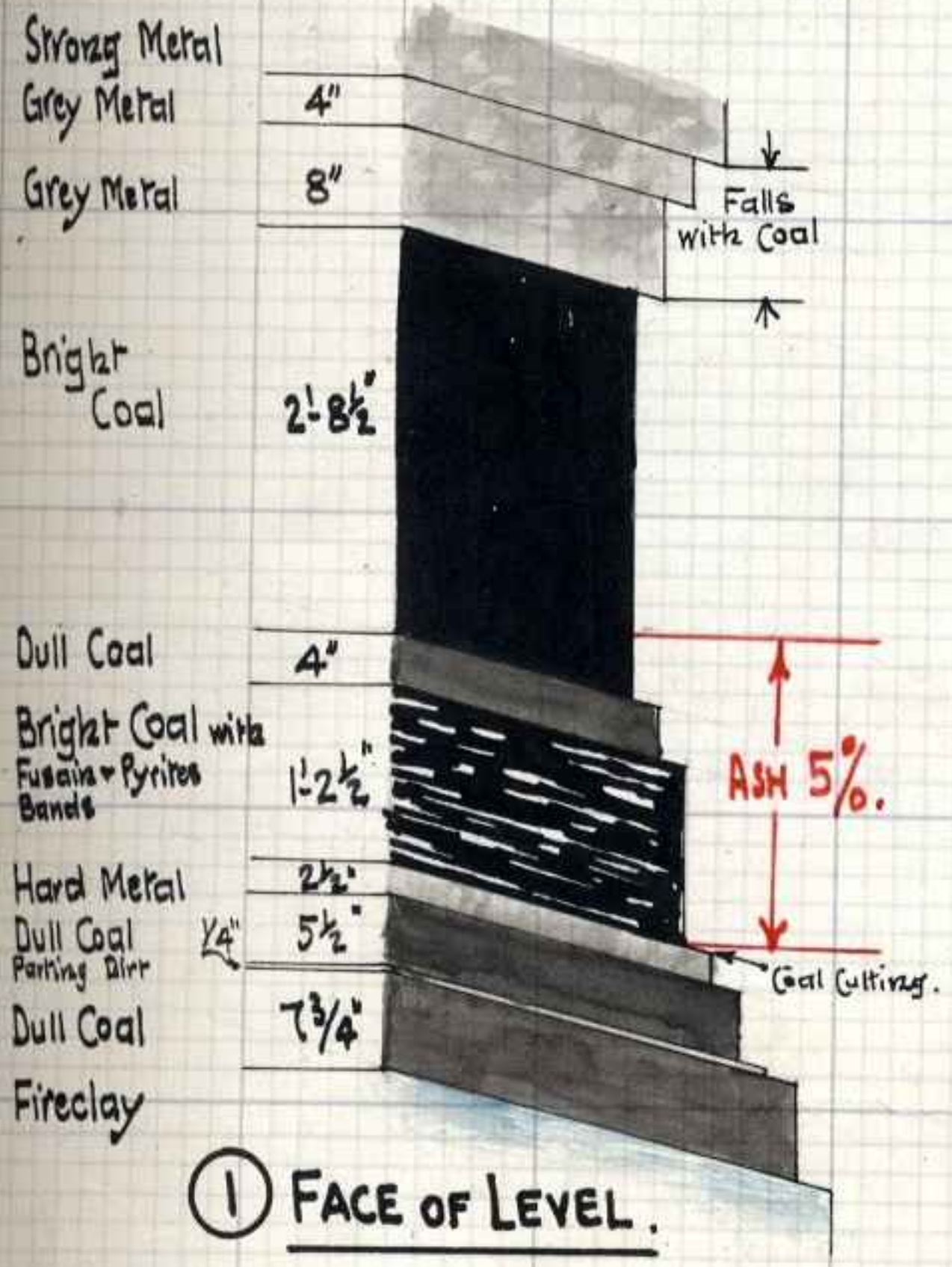




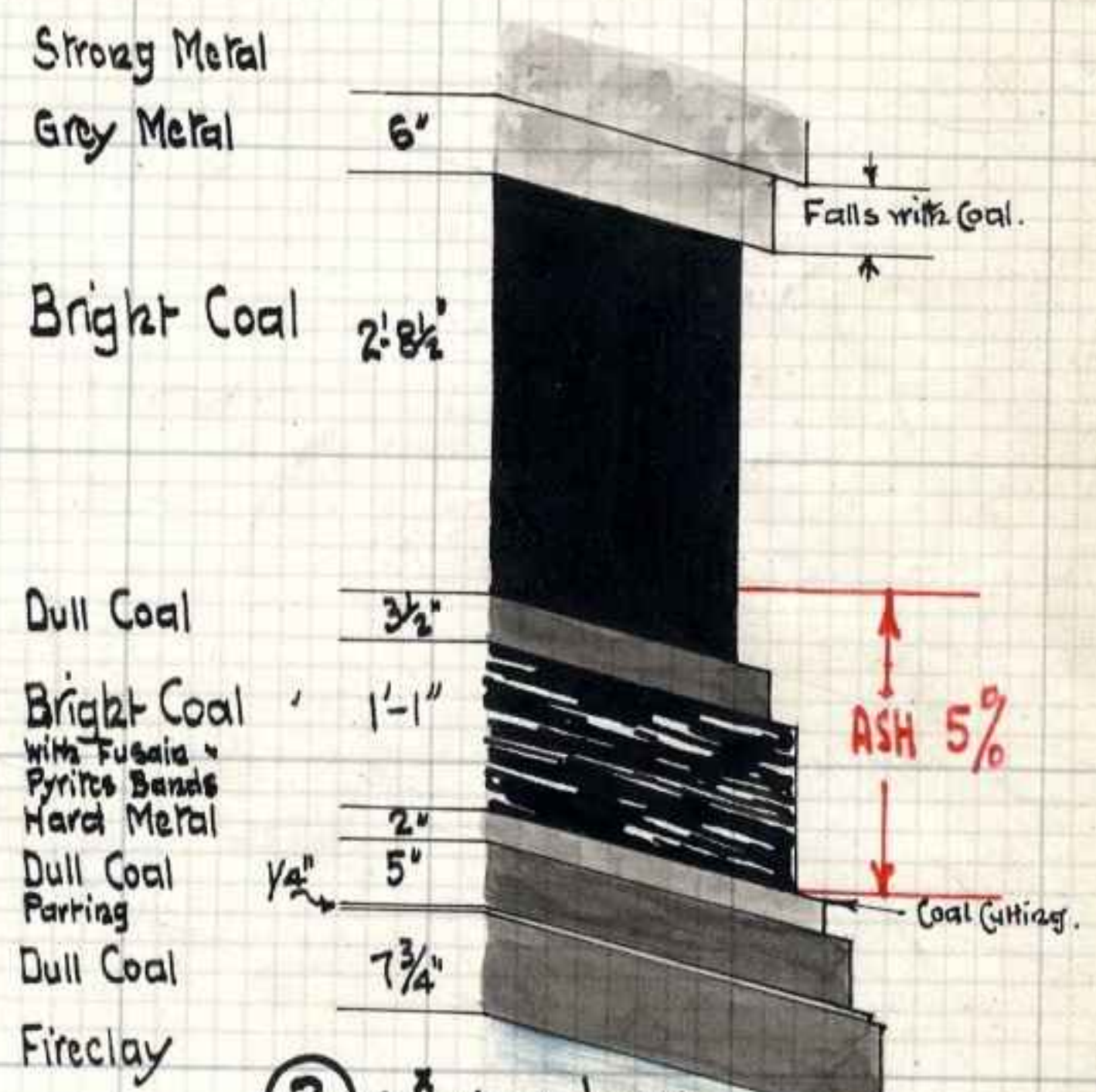
④ TOP OF FACE -  
160' above Level.



③ 80' above Level.



① FACE OF LEVEL.



② 40' above Level.

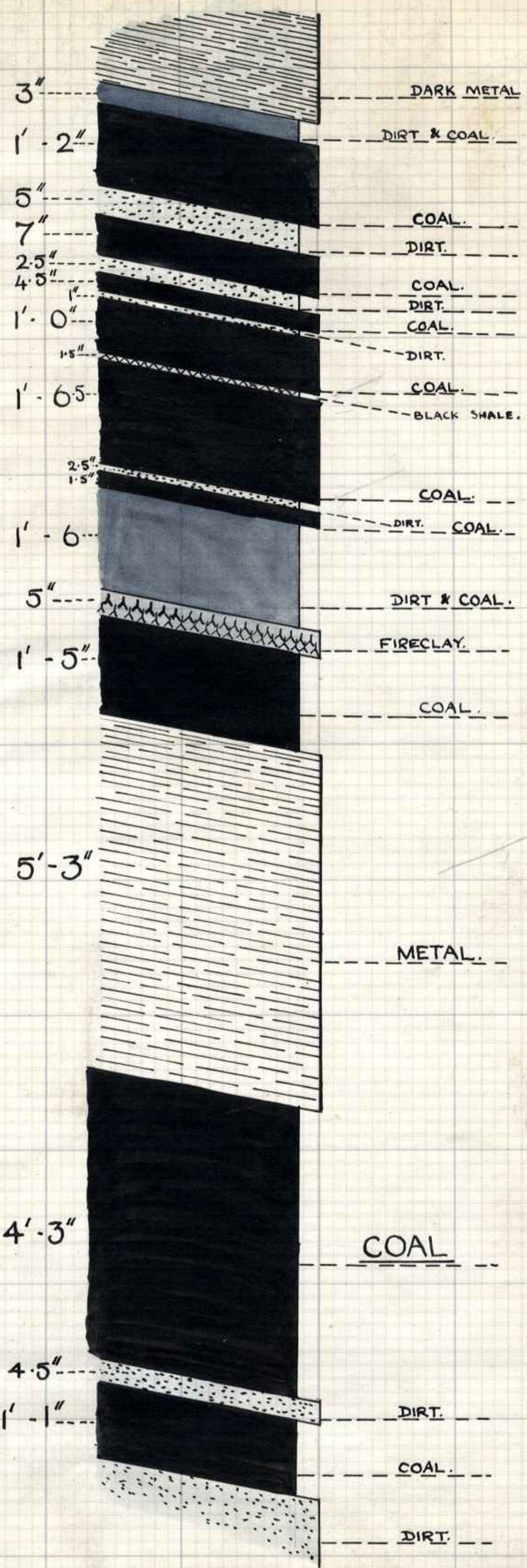
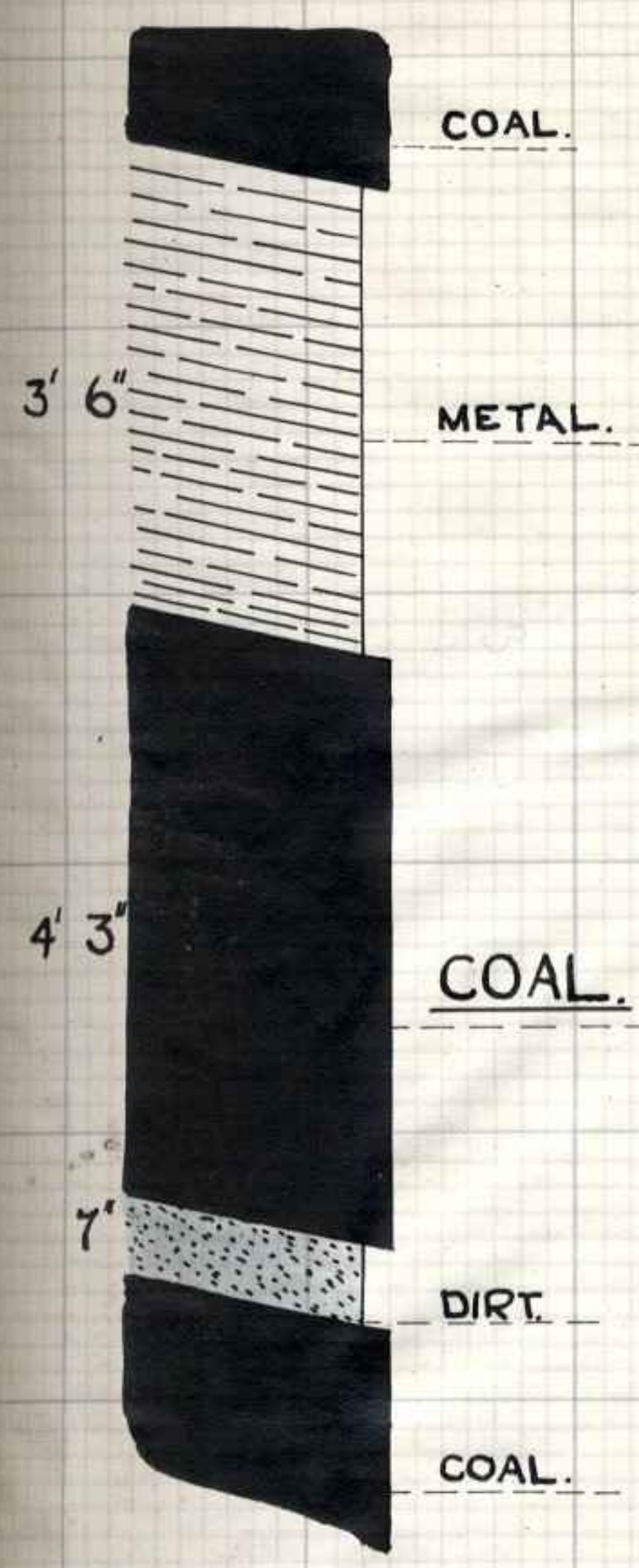
Scale: - 1/2" = One Foot.

SECTIONS - No 8 SOUTH BAMBURY FACE - JAN. 19<sup>TH</sup>. 1943.

1860 Yds. West of Hesketh Pit. 820 Yds. below Surface.

BACK DIP.

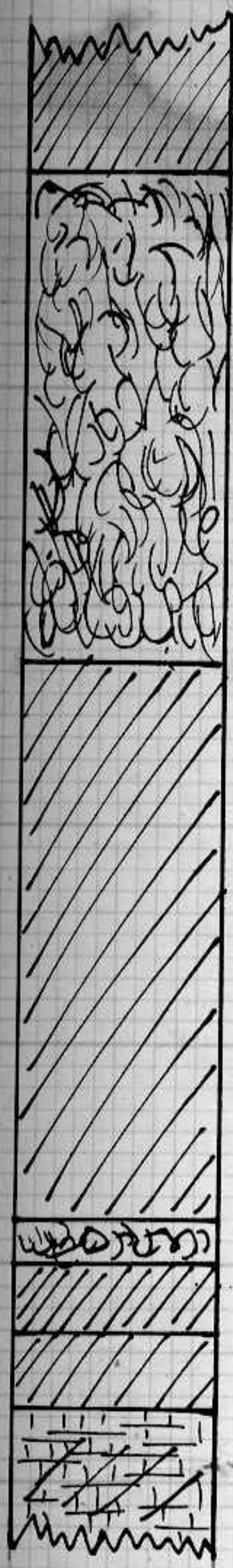
MAIN DIP.



BAMBURY COAL.

SECTIONS TAKEN  
IN  
NORTH WEST DIPS.

Scale : 0.5" = 1'



COAL.

GREY METAL. 3'-9"

BRIGHT COAL. 4'-3"

METAL 4"

DULL COAL. 6"

BRIGHT COAL 7"

STRONG FIRECLAY WITH COAL STREAKS.

1. Lovatt.
2. Jones.
3. Tranter G.J.
4. Tranter J.R.
5. Croxton P.H.
6. Lowndes
7. Belcher
8. Hill
9. Sanderson
10. Ruston
11. D.N. other

x F. Sanderson

J.M. x P.A.J.

P.H.C.  
14

G.J.T.  
x

x J.B.

FR.  
x  
=

x J.G.L.

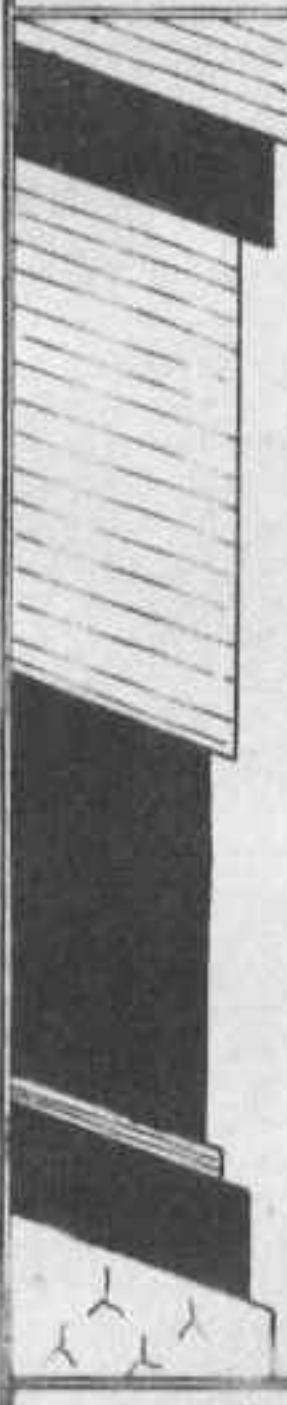
x  
S.L.

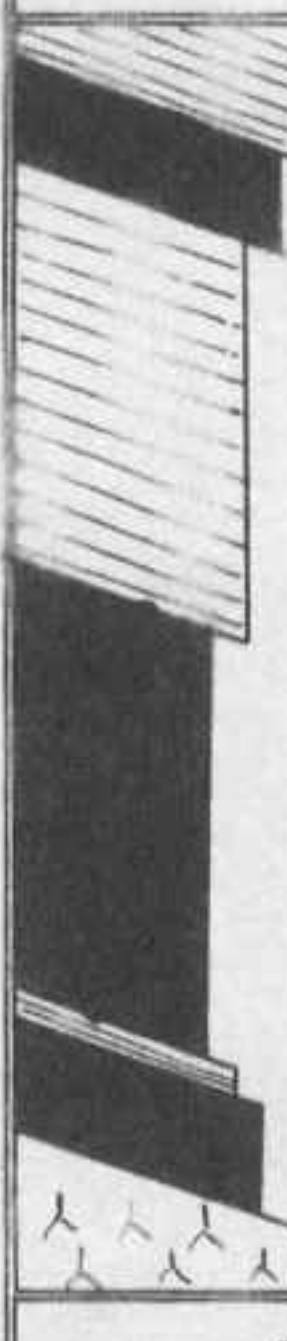
x J.R.T.

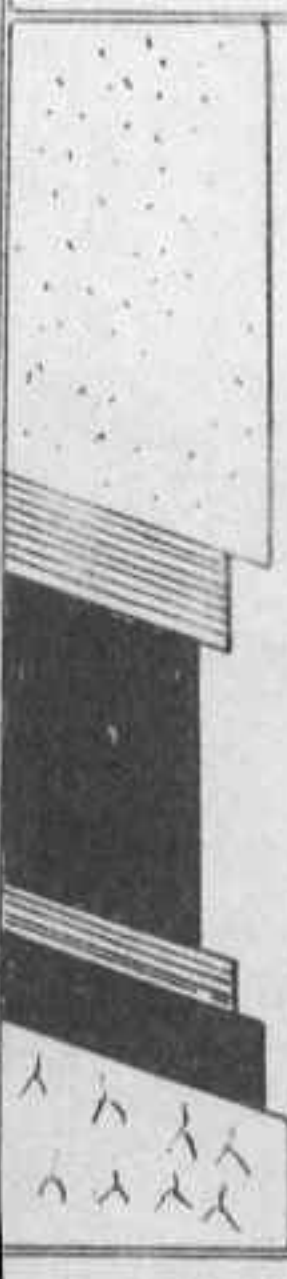
BAMBURY NORTH WEST : SCALE : - 1/20



# BAMBURY SEAM

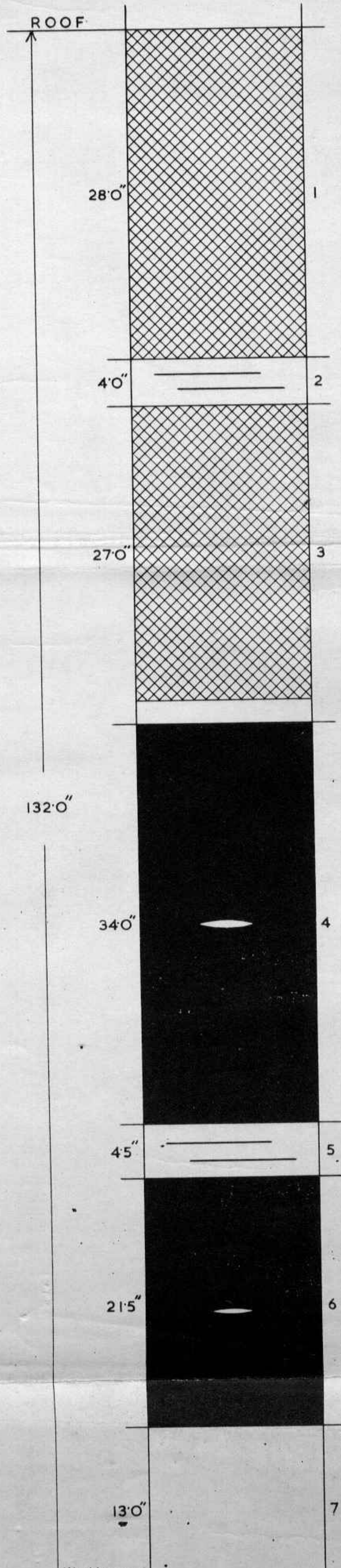
<i>N° 8 NORTH</i>		<i>Thickness</i>	
		<i>Ft</i>	<i>Ins</i>
	<i>Grey Metal</i>		
	<i>Coal</i>	<i>1</i>	<i>0</i>
	<i>Grey Metal</i>	<i>5</i>	<i>2</i>
	<i>COAL</i>	<i>4</i>	<i>0</i>
	<i>Dirt</i>		<i>3</i>
	<i>Coal</i>	<i>1</i>	<i>0</i>
<i>Fireclay</i>			
<i>Dip of Face 12°</i>			

<i>N° 1 NORTH WEST</i>		<i>Thickness</i>	
		<i>Ft</i>	<i>Ins</i>
	<i>Grey Metal</i>		
	<i>Coal</i>	<i>1</i>	<i>1</i>
	<i>Grey Metal</i>	<i>4</i>	<i>0</i>
	<i>COAL</i>	<i>4</i>	<i>3</i>
	<i>Dirt</i>		<i>3</i>
	<i>Coal</i>	<i>1</i>	<i>0</i>
<i>Fireclay</i>			
<i>Dip of Face 11°</i>			

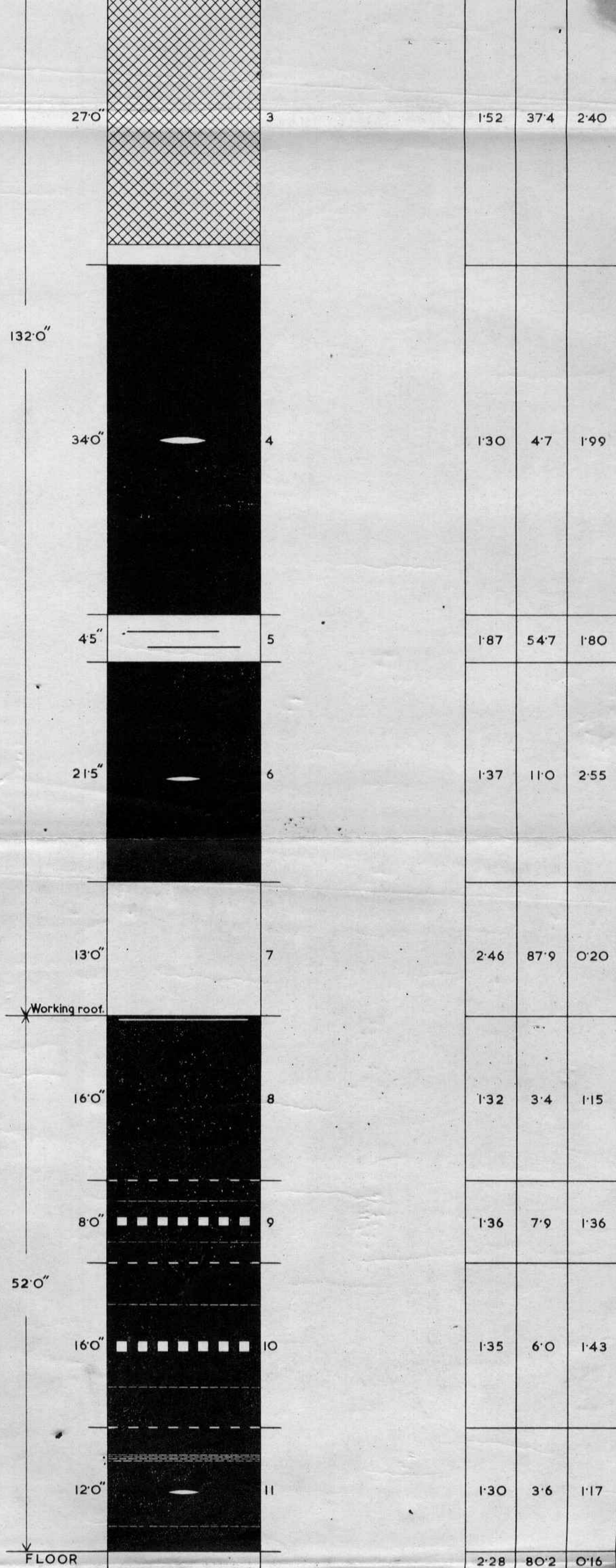
<i>N° 3 NORTH</i>		<i>Thickness</i>	
		<i>Ft</i>	<i>Ins</i>
	<i>Rock</i>		
	<i>Dark Metal</i>	<i>1</i>	<i>0</i>
	<i>COAL</i>	<i>3</i>	<i>0</i>
	<i>Dirt</i>		<i>6</i>
	<i>Coal</i>		<i>11</i>
	<i>Fireclay</i>		
<i>Dip of Face 17°</i>			

# CHATTERLEY WHITFIELD COLLIERY.

## THE BANBURY RIDER COALS.



AIR-DRIED BASIS.		
SP.GR.	ASH	Total Sulphur.
1.50	26.1	1.79
1.71	43.4	1.33
1.52	37.4	2.40
1.30	4.7	1.99
1.87	54.7	1.80
1.37	11.0	2.55
2.46	87.9	0.20



PILLAR SECTION TAKEN ON 9<sup>th</sup> NOVEMBER 1953.

METAL

SHALE ----- 1"  
METAL ----- 5"  
SHALE ----- 5"

METAL ----- 2'-6"

SHALE ----- 6"

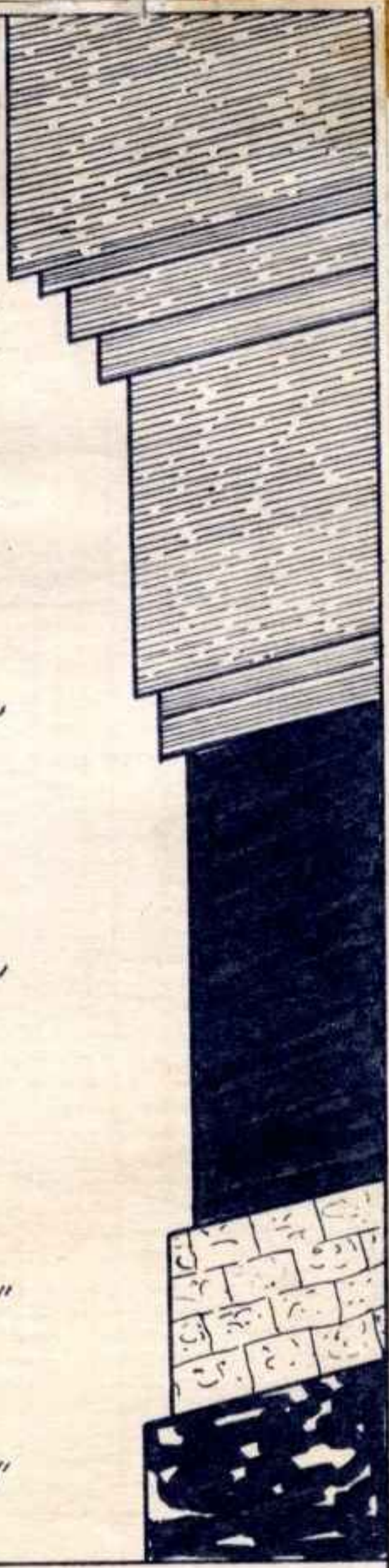
COAL ----- 3'-9"

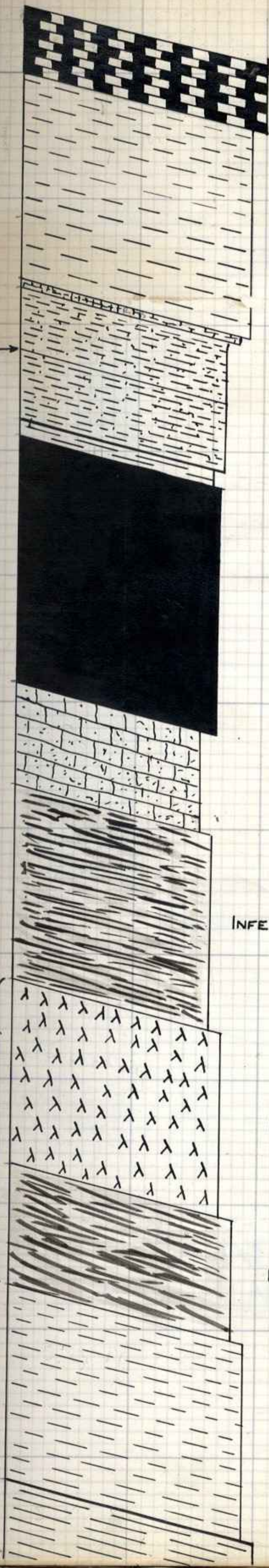
FIRECLAY ----- 1'-5"

INFERIOR COAL ----- 3'-0"

BELL RINGER

1950 YDS WEST OF HESKETH SHAFT





BLACK BASS

SOFT GREY METAL 3'-3"

ROCK BINDS 2"

LIGHT GREY METAL 2'-1"

BLACK METAL 3"

COAL 3'-11"

SECTION OF  
BELLRINGER COAL  
TAKEN IN HESKETH  
MAIN CRUT.

ROCK 1'-7 1/2"

INFERIOR COAL AND DIRT 1'-11"

FIRECLAY 2'-11"

SCALE 1/2" = 1 FOOT

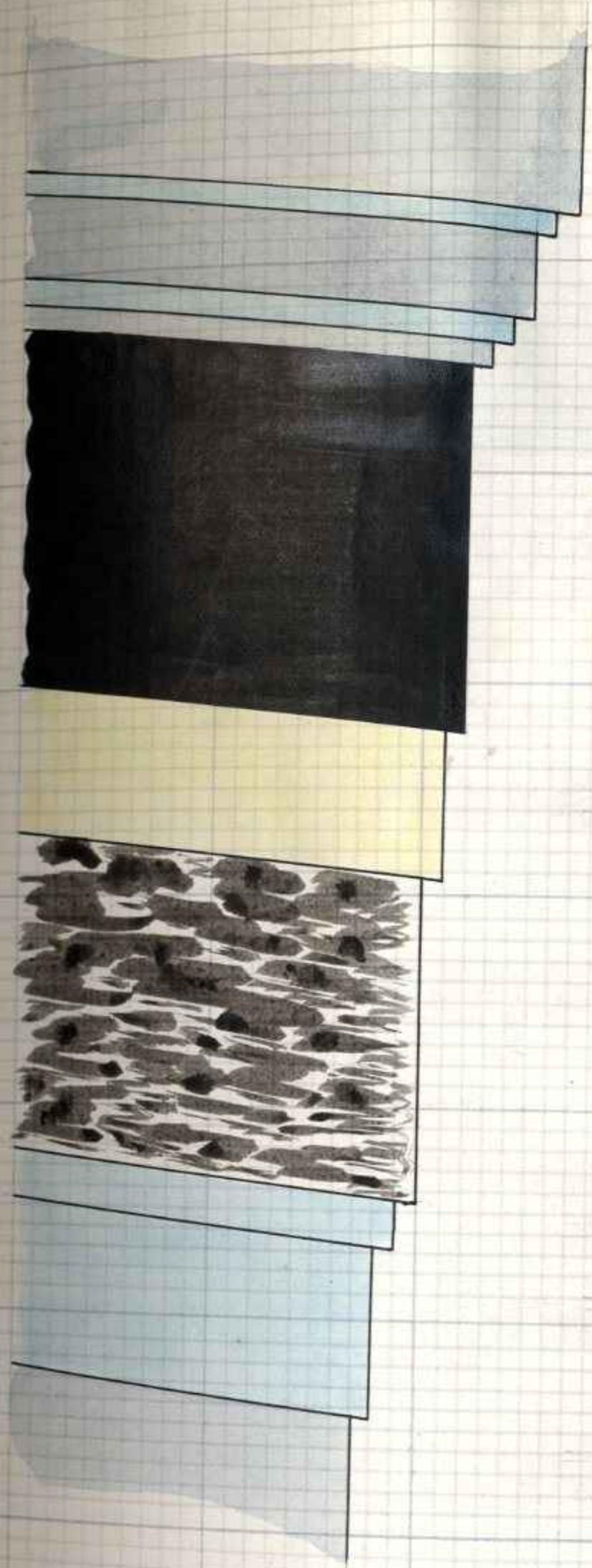
INFERIOR COAL AND DIRT 1'-11"

SOFT GREY METAL 3'-1"

STRONG GREY METAL

SLIPPERY  
PARTING →

PARTINGS NOT  
DISCERNABLE  
OWING TO WATER  
AND DUST



DARK METAL

FIRECLAY 1 1/2"

METAL 9 1/2"

FIRECLAY 3"

GREY METAL 3"

COAL 3'-5"

ROCK BINDS 1'-5"

INFERIOR COAL 3'-0"

FIRECLAY WITH COAL STREAKS 5"

FIRECLAY 1'-7"

GREY METAL

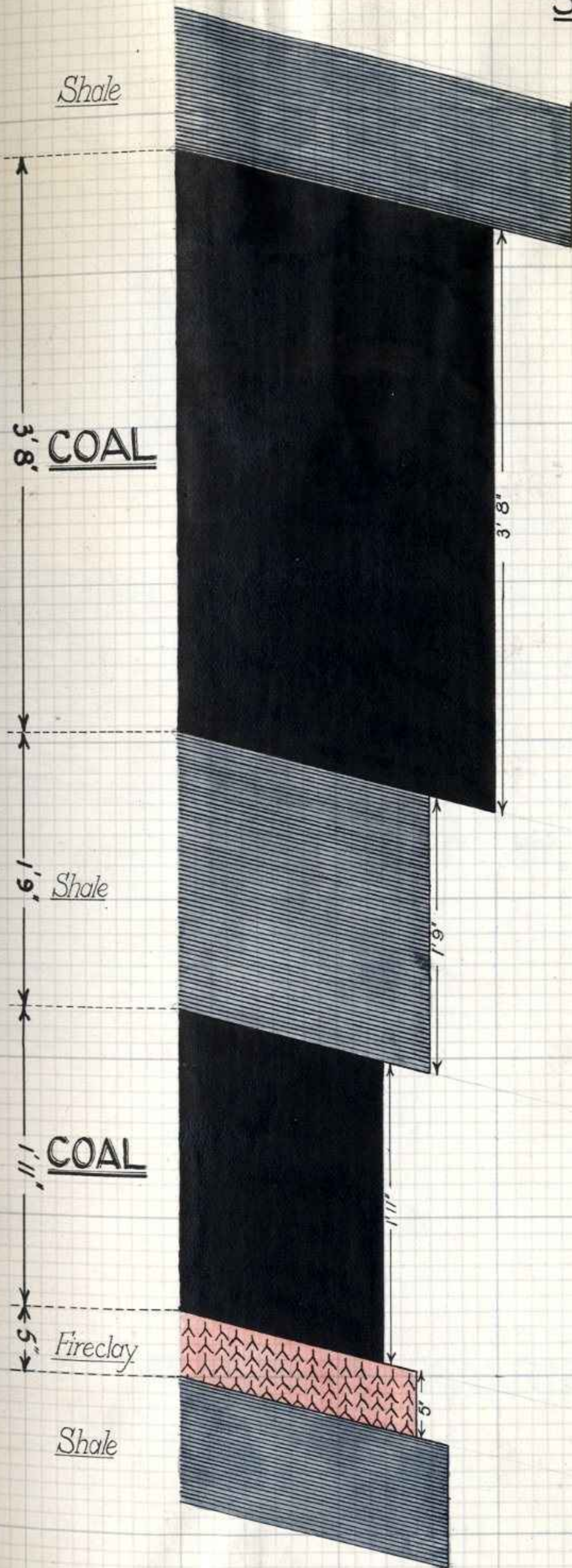
SECTION TAKEN AT TOP OF BELLRINGER MAIN DIP.  
MIDDLE PIT.

# BELLRINGER SEAM

N° 1 SOUTH.		Thickness	
		Ft	In
	Grey Metal Shale		3
	Dark Metal Shale		3
	Dark Metal Shale		3
	Black Bass		3
	COAL	3	4
	Black Shale		1
Rock Birds	1	7	
Inferior Coal and Dirt	3	6	
Dip of Face 14°			

SECTION OF TOP HEADING CRUT  
IN N<sup>o</sup>. 2 NORTH BELLRINGER

SCALE: 1" to 1'







ROCK BINDS

COAL 6"

SOFT GREY SHALE 8"

COAL 1'-0"

FIRECLAY 1"

COAL 1'-3"

SCALE  $\approx 1/10$

SHALE 6 1/2"

METAL 5 1/2"

STRONG FIRECLAY

METAL

DETAIL SECTION OF INFERIOR COAL IN S. HEATH'S  
BELLRINGER NEW CRUT



GREY METAL

SHALE 3"

DARK METAL 9"

SHALE 3"

DARK METAL 6"

SHALE 3"

BLACK BASS 3"

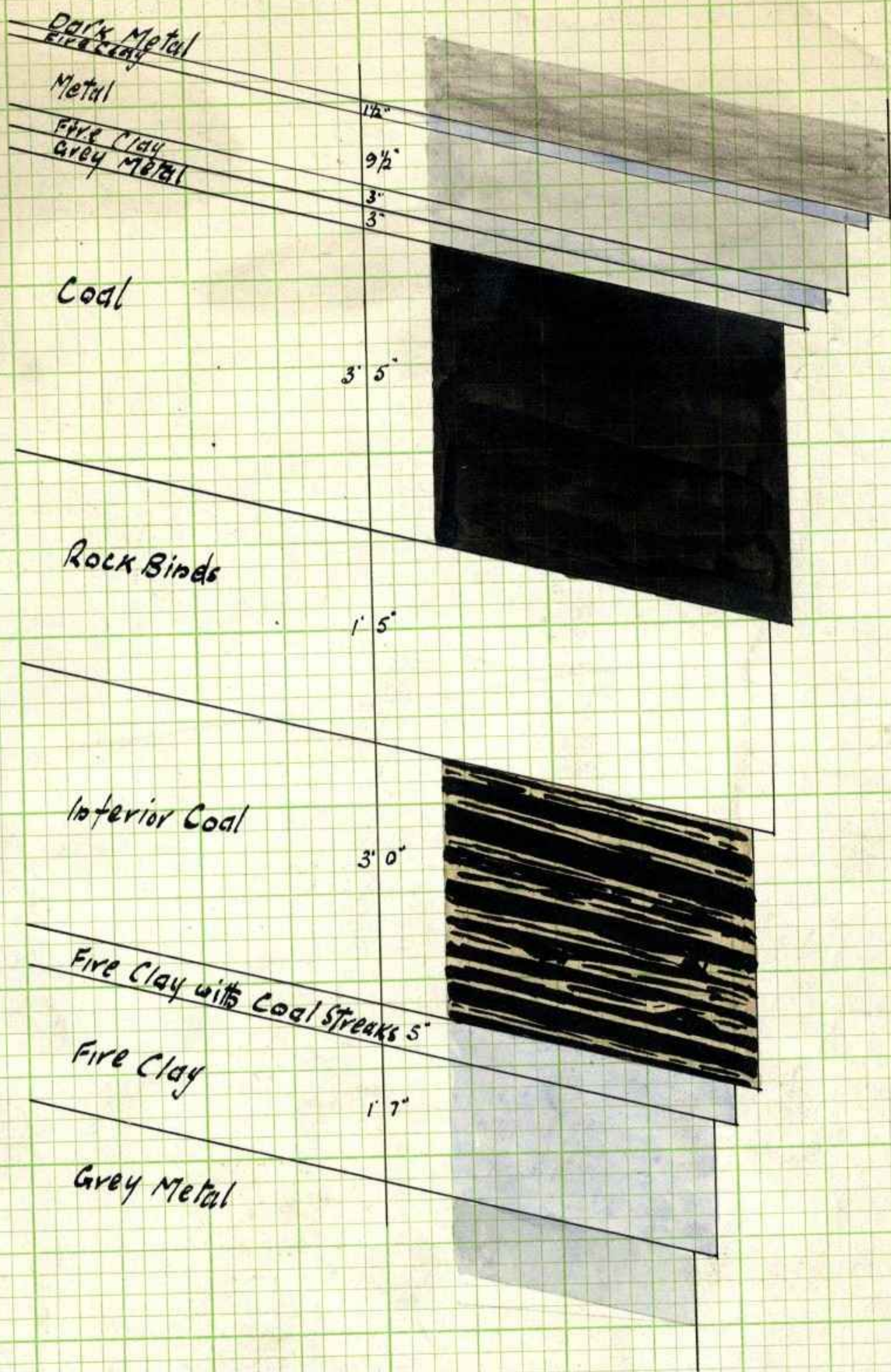
COAL 3'-6"

BLACK SHALE 1"

ROCK BINDS 1'-7"

INFERIOR COAL 3'-6"

SECTION OF BELLRINGER COAL TAKEN IN  
S. HEATH'S NEW CRUT. MIDDLE PIT.



BELLRINGER COAL

Section taken at top of Bellringer Main Dip

Scale One Inch = 2 Feet  
 3/3/41.

METAL

METAL WITH MUSSELS 6"

COAL ----- 3'-3"

SHALE ----- 3"

DARK METAL ----- 8"

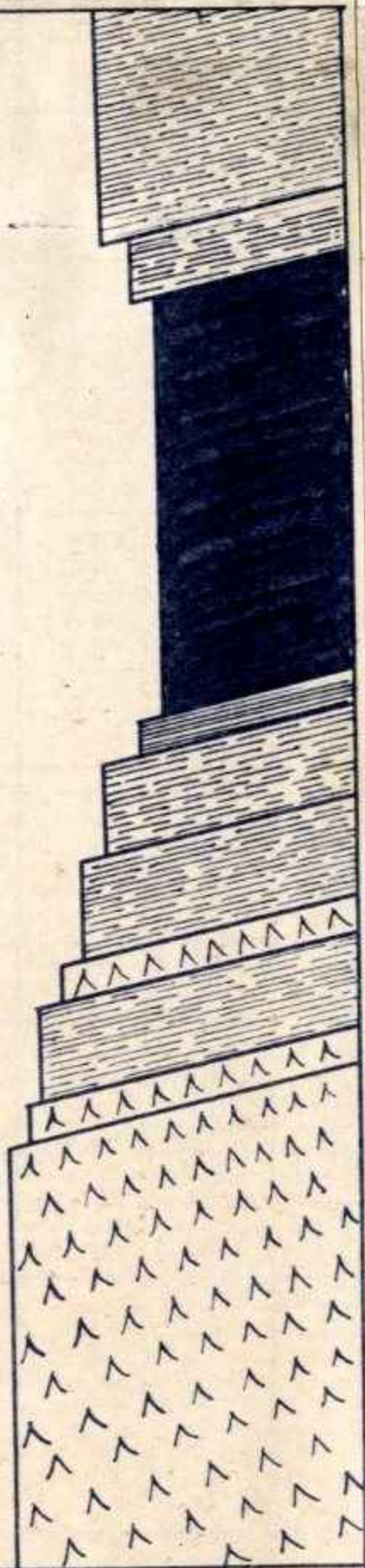
DARK METAL WITH COAL 9"

FIRECLAY ----- 3"

DARK METAL WITH COAL 9"

FIRECLAY ----- 2"

HARD FIRECLAY



BOWLING ALLEY

1900 YDS WEST OF HESKETH SHAFT

# BOWLING ALLEY SEAM

NORTH WEST		Thickness ft. ins.	
	Light Grey Metal		
	Dark Metal	1	0
	COAL	3	3
	Fireclay		9
	Dark Metal		
Dip of Face 11°			

BLACK METAL

CANNEL	-----	5"
INFERIOR COAL	-----	1"
BRIGHT COAL	-----	9"
SOFT FUSAIN	-----	2 1/2"

BRIGHT COAL	-----	1-5 1/2"
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HARD WARRANT

BRICK KILN MINE

380 YDS WEST OF HESKETH SHAFT

Colour of Ash. Very light Brown.

Cannel.

5"

Inferior Coal.

1"

Colour of Ash. Light Brown.

Bright Coal.

9"

Ash 42.5%

Colour of Ash. Purple.

Soft Fusion.

2 1/2"

Ash 3.5%

Colour of Ash Dark Brown.

Bright Coal.

1 5/2"

Ash 31.5%

2' 6"

Ash 5.5%

Some below  
wavy!

Hard Warrant.

Hesketh Coal

BRICK  
Lime kiln Coal

Section taken in Hesketh Back Crut.

Scale 3" = One Foot.

21/10/39.

CANNEL  
*27%*  
 INFERIOR COAL  
 LIGHT BROWN ASH 42.5%

BRIGHT COAL  
 LIGHT BROWN ASH  
 3.5%

SOFT FUSAIN  
 PURPLE ASH 31.5%

BRIGHT COAL  
 DARK BROWN ASH  
 5.5%

HARD WARRANT

DIP 1 in 3.5

SECTION TAKEN IN HESKETH BACK CRUT.

21/10/39.

BLACK METAL

CANNEL

BRIGHT COAL

SOFT FUSAIN

BRIGHT COAL

HARD WARRANT

7 1/2"

6 1/2"

7 1/2"

2 1/4"

1-5 1/4"

DIP 1 in 2 1/4

SECTION TAKEN IN BRIGHT'S  
 RETURN CRUT.

30/10/39.

BRICK KILN COAL.

(41 YARDS BELOW BULLHURST).

SCALE:- 2" = ONE FOOT.



HARD METAL ----- 1'-0"

SOFT METAL ----- 2'-0"

HARD METAL ----- 10"

COAL ----- 6"

HARD METAL ----- 1'-6"

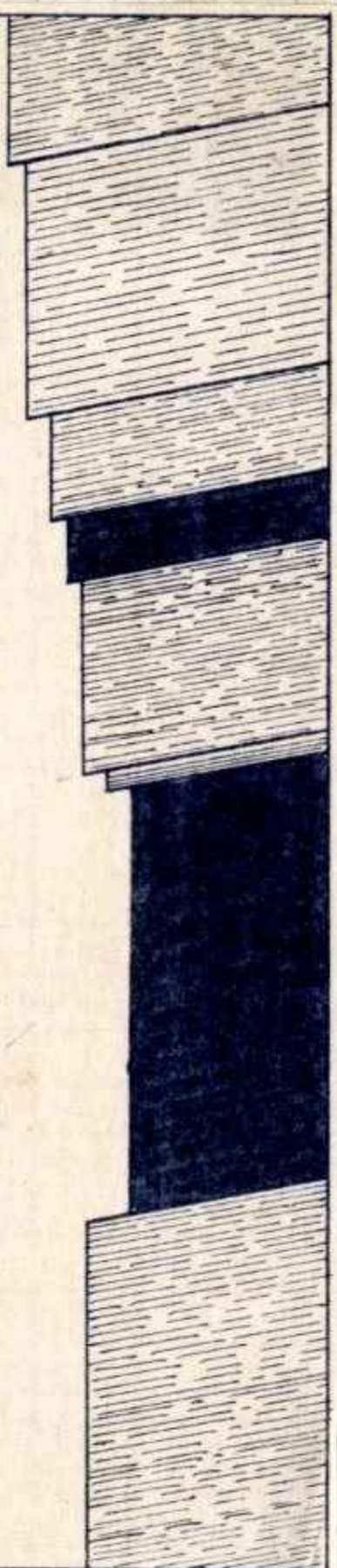
CLOD ----- 2"

COAL ----- 3'-3"

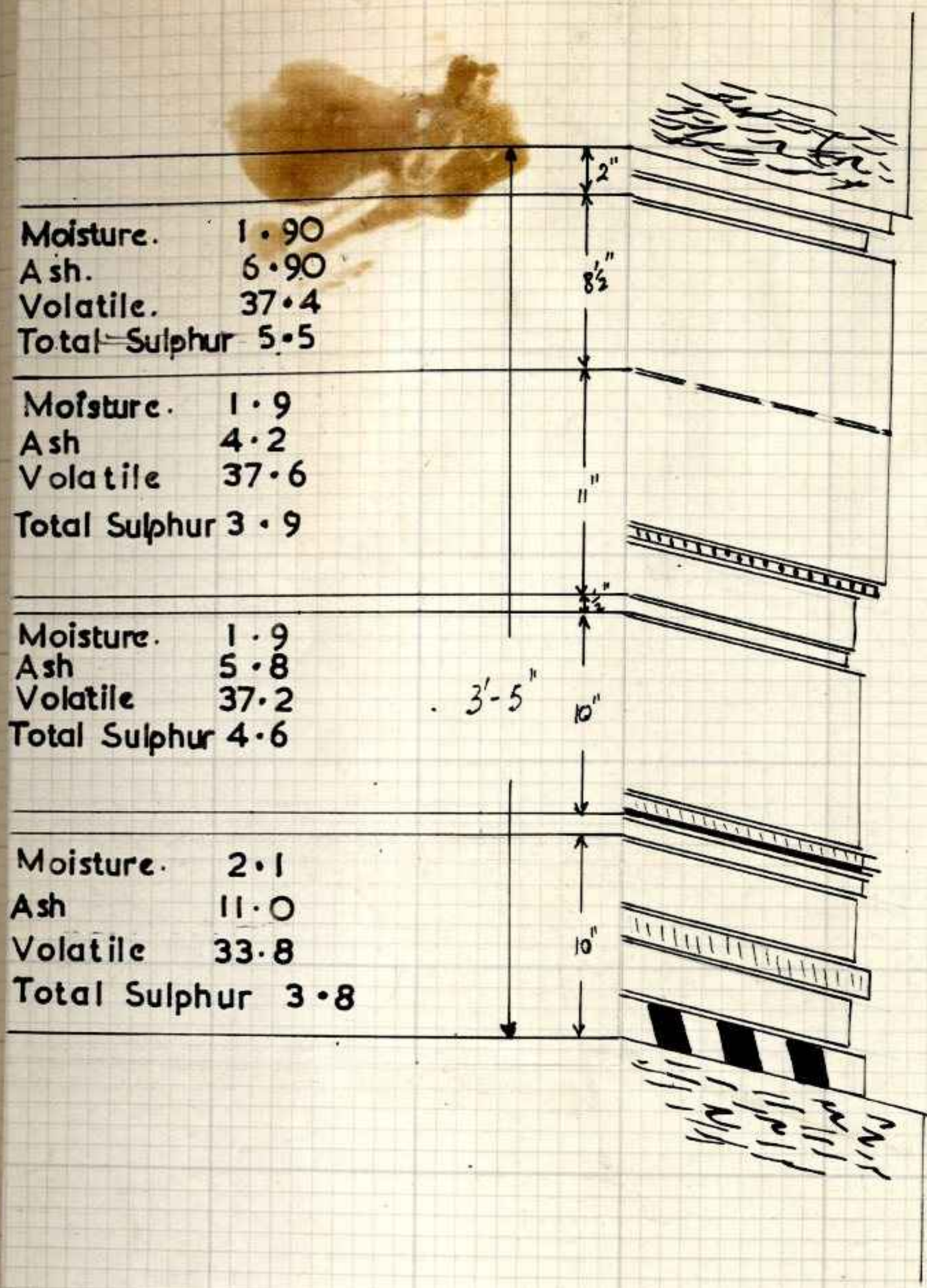
HARD FLOOR

BRIGHTS

850 YDS WEST OF HESKETH SHAFT



Section of Brights seam



Section Of Brights Seam.

(WHITFIELD COLLIERY.)

SCALE : - -  $\frac{1}{10}$

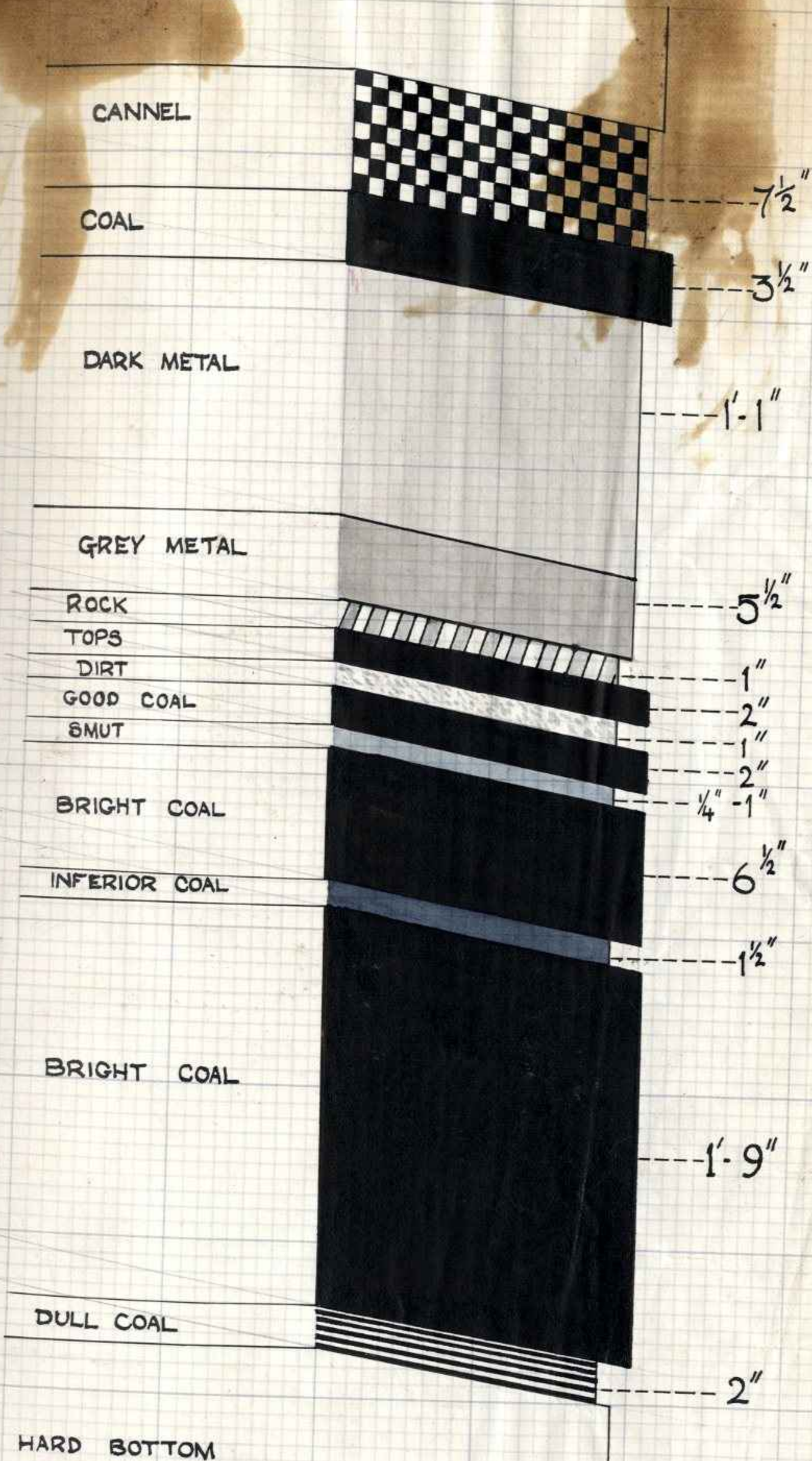
# BRIGHTS

# SEAM

N° 3½ NORTH		Thickness	
		Ft	In
	Grey Metal		
	Coal		5
	Grey Metal	1	2
	Dark Shale		5
	Light Shale		3
	COAL	3	3
	Grey Metal		
Dip 0° Face 5°			

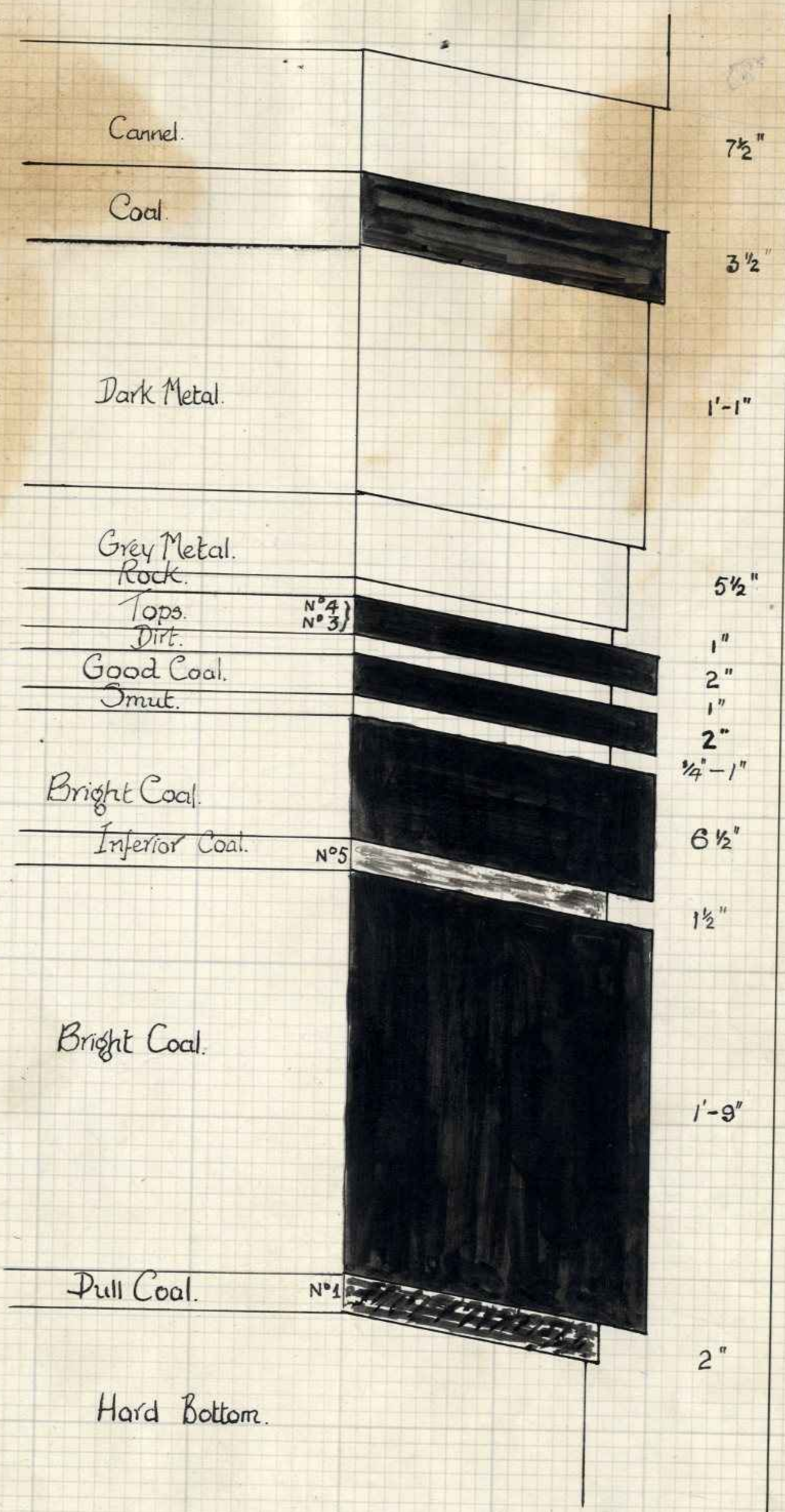
EXTENSION FACE		Thickness	
		Ft	In
	Grey Metal		
	Coal		5
	Grey Metal	1	0
	Dark Shale		6
	Light Shale		1
	COAL	2	4½
	Dirt		4
	Coal		3
	Grey Metal		
Dip 0° Face 15°			

Section of BRIGHT COAL, South Dip Face, 218 yds S.E  
of Hesketh Pit 20.9.39



Section of Bright Coal, South Dip Face, 218yds. S.E. of Hesketh

20/9/39.





METAL

SHALE 5"

METAL 1"

SHALE 4"

CANNEL 2"

COAL (SOME PYRITES) 1'-0"

COAL 6"

NATURAL PARTING

COAL 4'-10"

DARK METAL WITH COAL STREAKS 5"

INFERIOR COAL 5"

GREY METAL

SECTION OF COAL ON N<sup>o</sup>.10 SOUTH BULLHURST  
TAKEN THROUGH CHELL HEATH FAULT.

GREY METAL

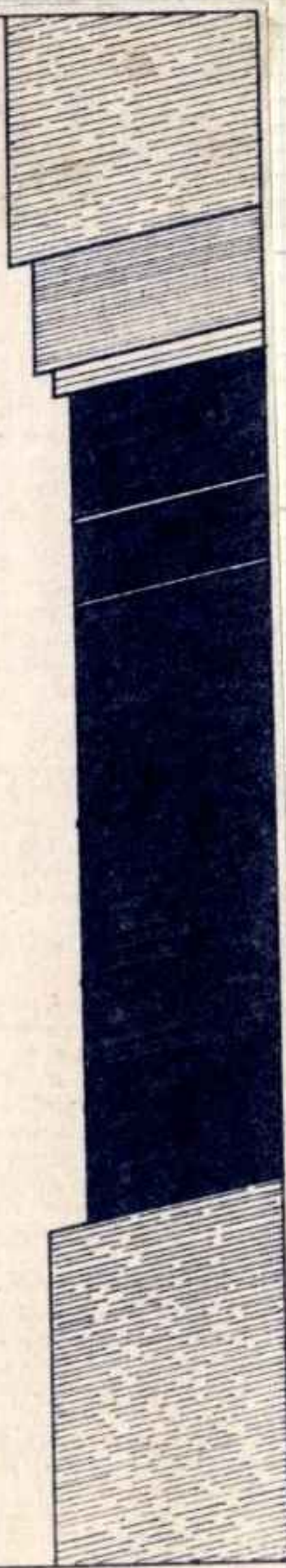
STRONG SHALE -----	10"
CANNEL -----	2"
COAL & PYRITES -----	1 1/2"
PARTING	
COAL -----	7/2"
PARTING	

COAL -----	4' - 9"
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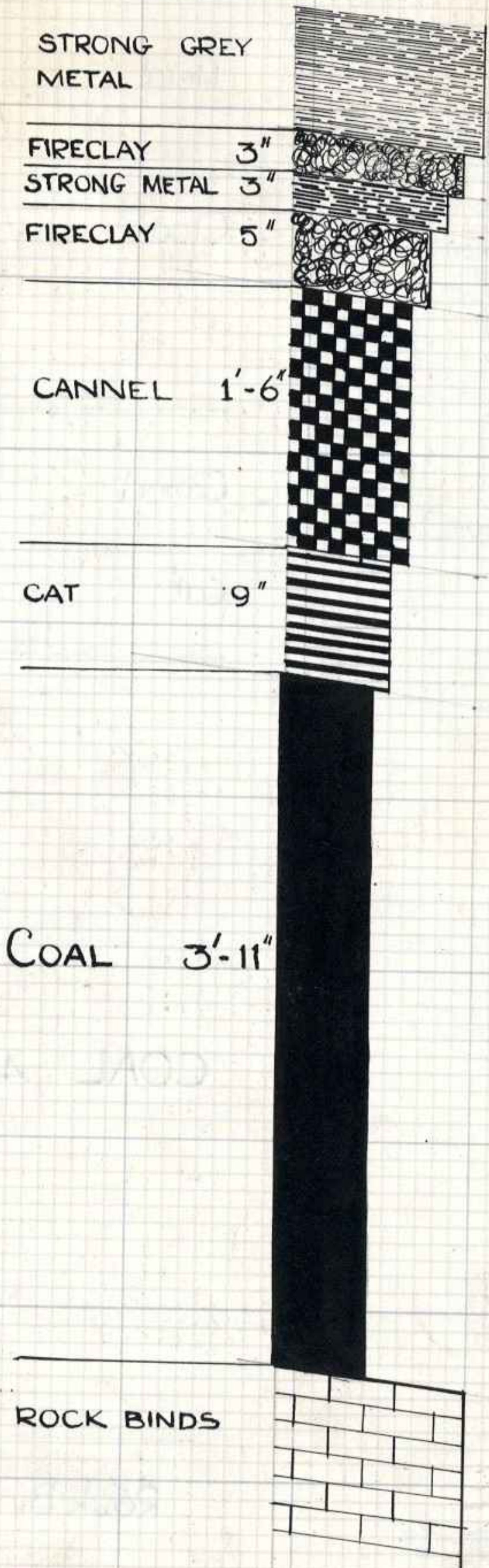
DARK METAL

BULLHURST

1500 YDS WEST OF HESKETH SHAFT



SECTION OF BULLHURST COAL  
 TAKEN 90 YARDS NORTH OF  
 BULLHURST MAIN DIP ON N° 8  
 NORTH LEVEL 16-2-44



SCALE :- ONE INCH TO ONE FOOT.



SECTION OF BULLHURST COAL - TAKEN 90 YARDS NORTH OF  
BULLHURST MAIN DIP ON N°8 NORTH LEVEL.

Strong Grey Metal

Fireclay

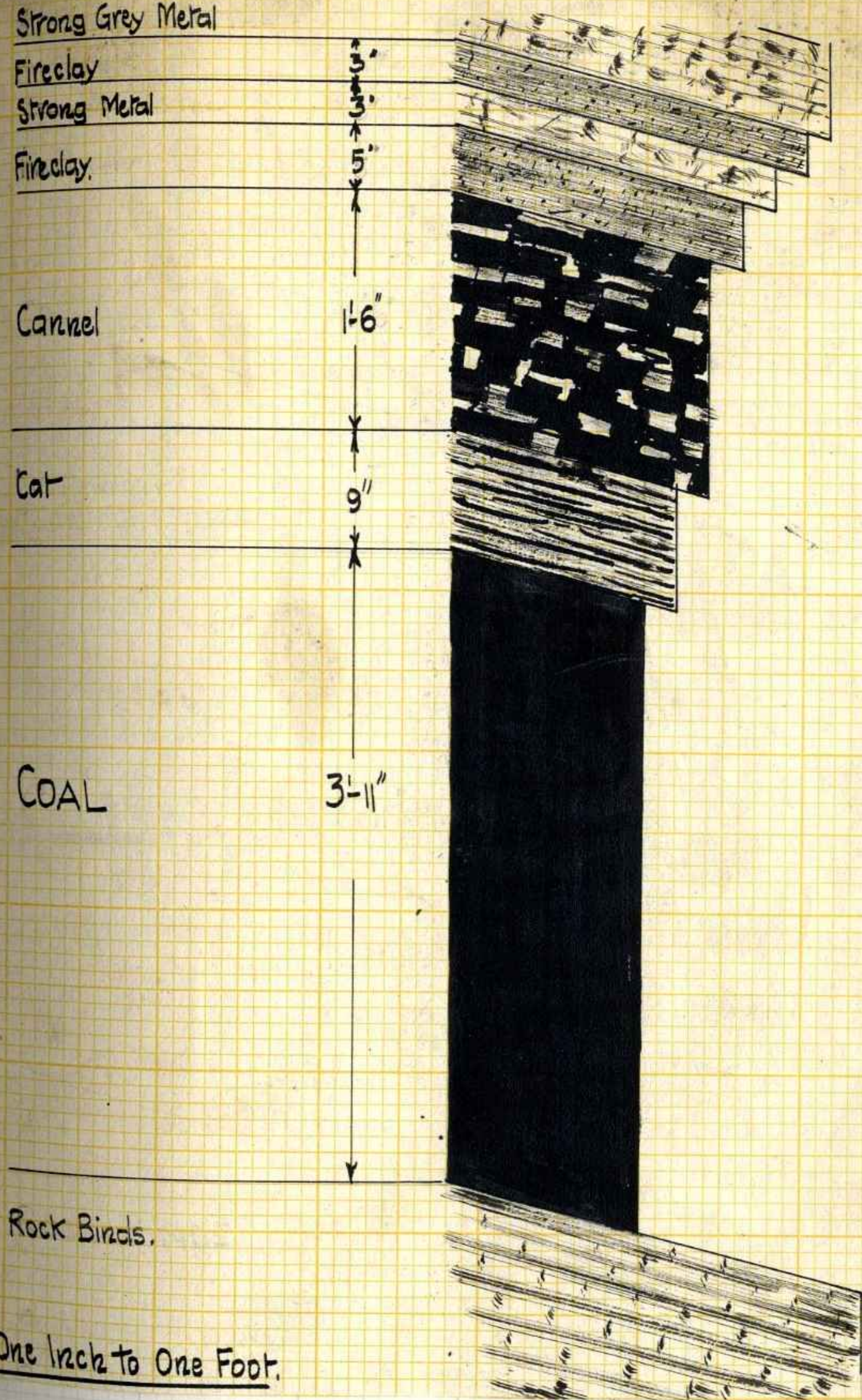
Strong Metal

Fireclay

Cannel

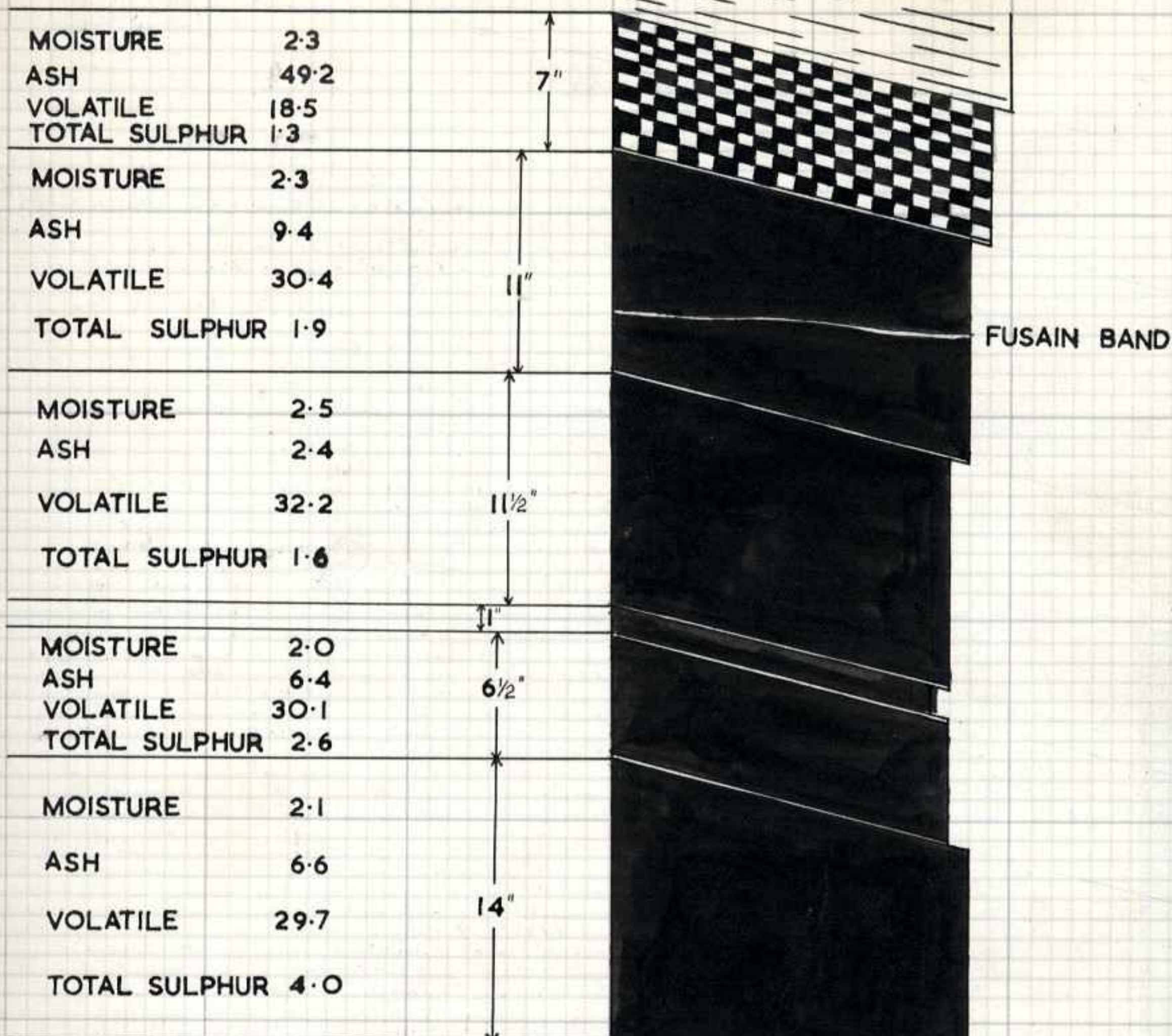
Coal

COAL



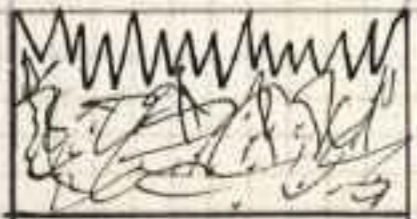
Scale:- One Inch to One Foot.

16/2/44.



Scale 1/10

SECTION OF BULLHURST SEAM



GREY METAL



STRONG SHALE 0'-10"



CANNEL 2"



COAL 11 1/2" (SOME PYRITES)

COAL 7 1/2"

NATURAL PARTING



COAL 4'-9"

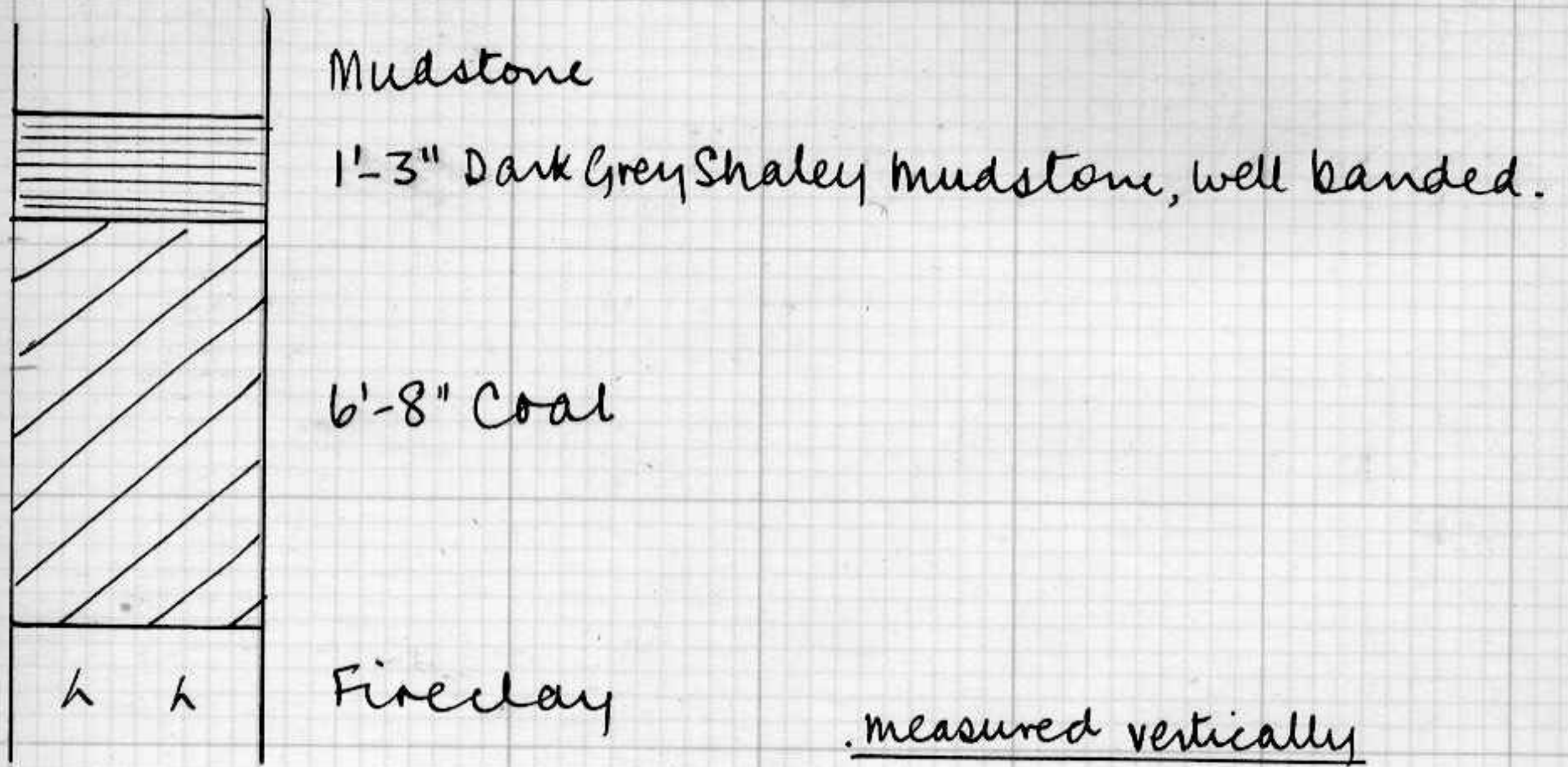


DARK METAL

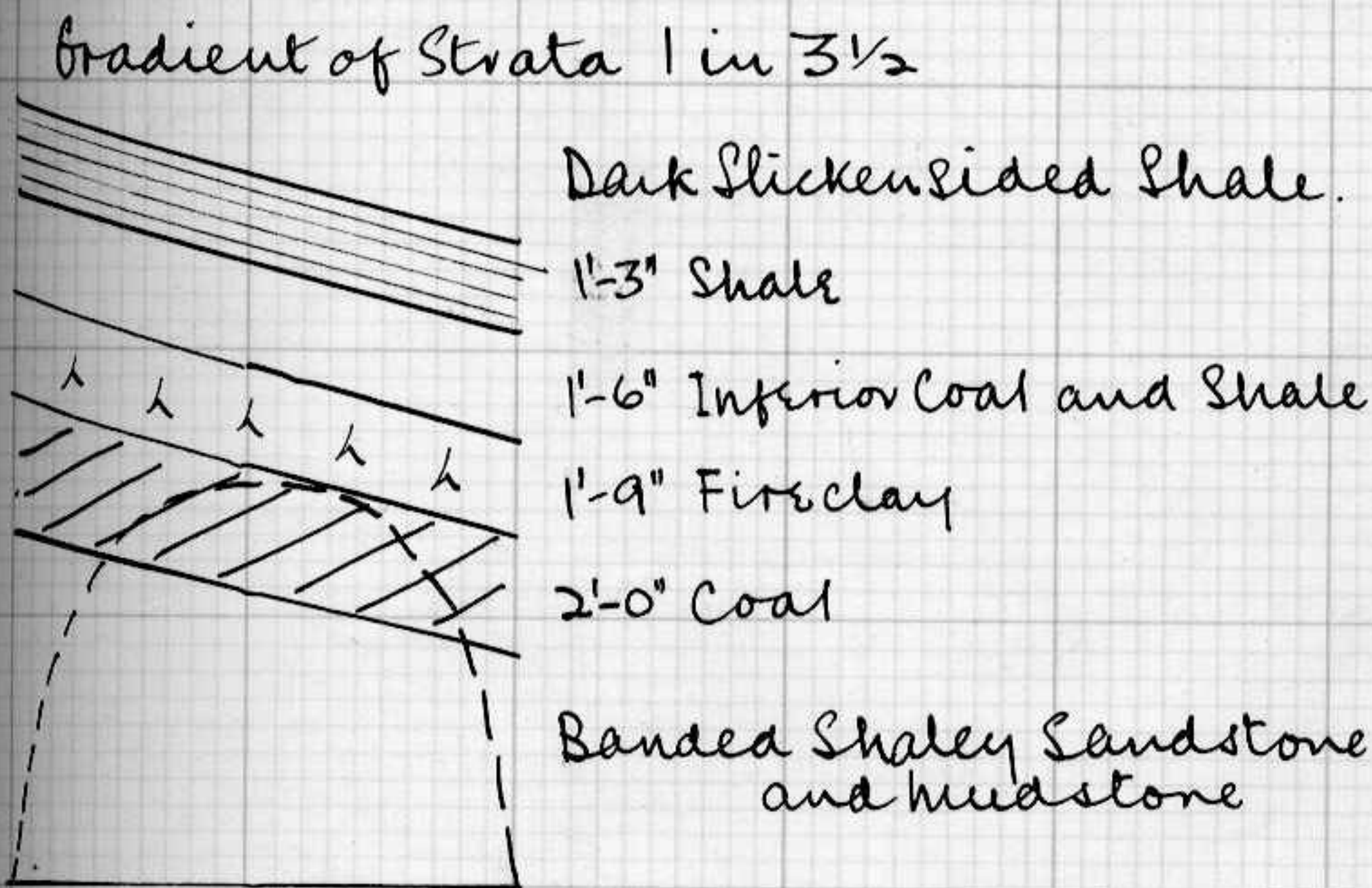
SECTION OF BULLHURST COAL AT N<sup>o</sup>. 12 ON MAIN DIP.

5/27/50

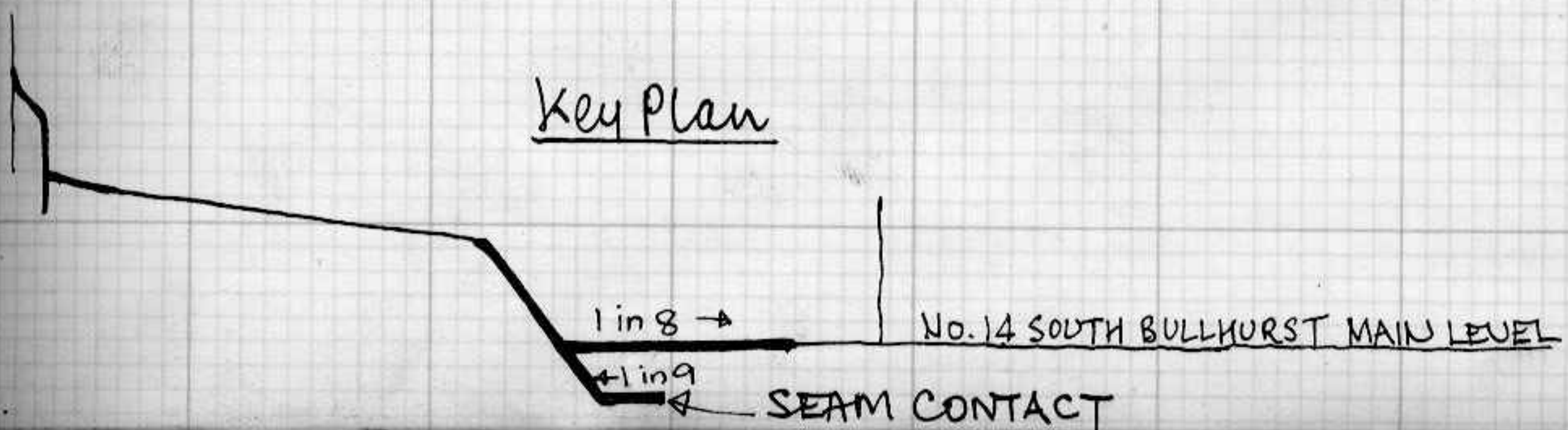
Section of Bullhurst Seam  
No. 14 South Bullhurst  
Bottom of 1 in 8 Dip Cut  
10th Feb. March 1964

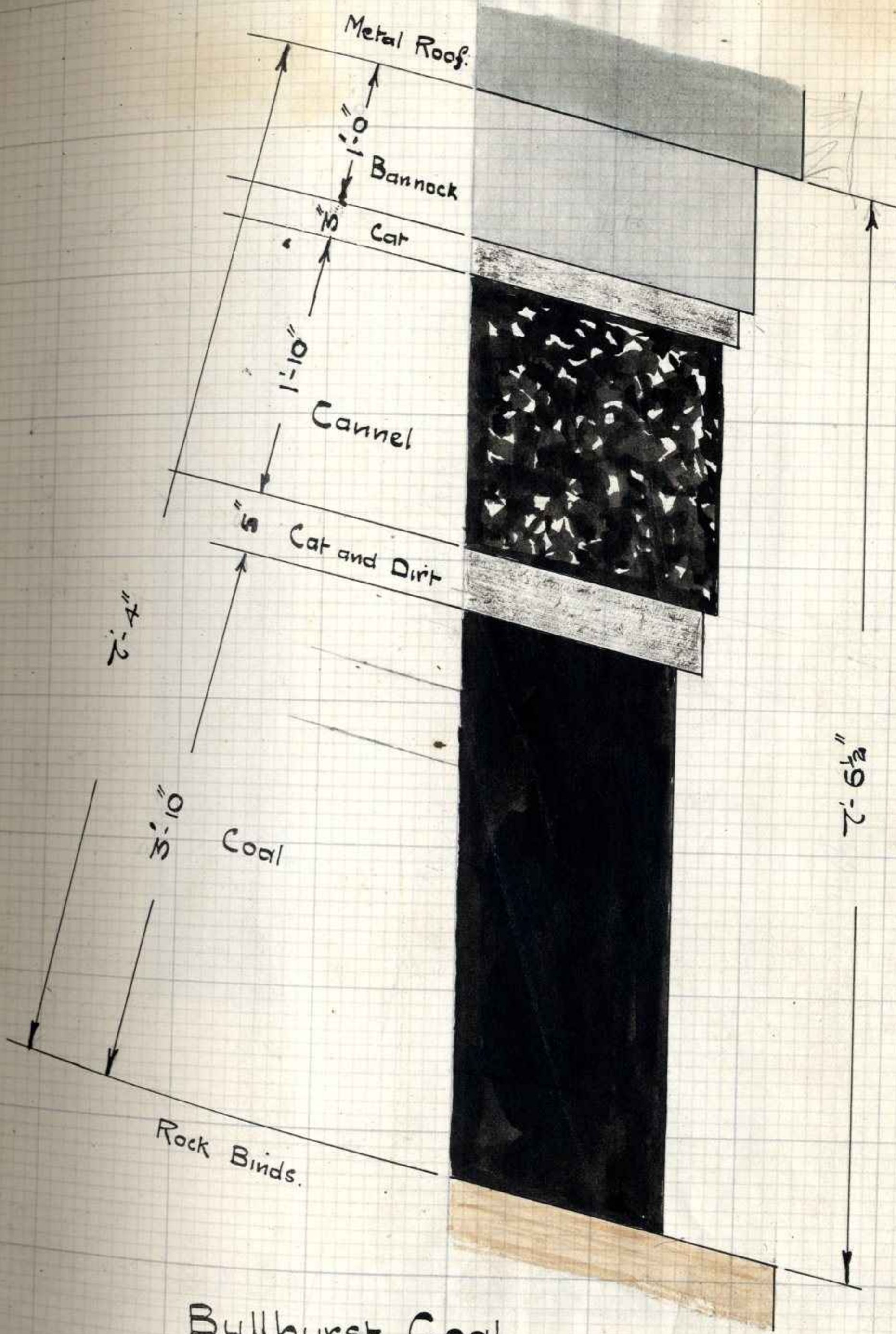


Section of a seam approximately 70 feet  
encountered in 1 in 9 Rise Cut from  
No 14 South Bullhurst Development



Key Plan





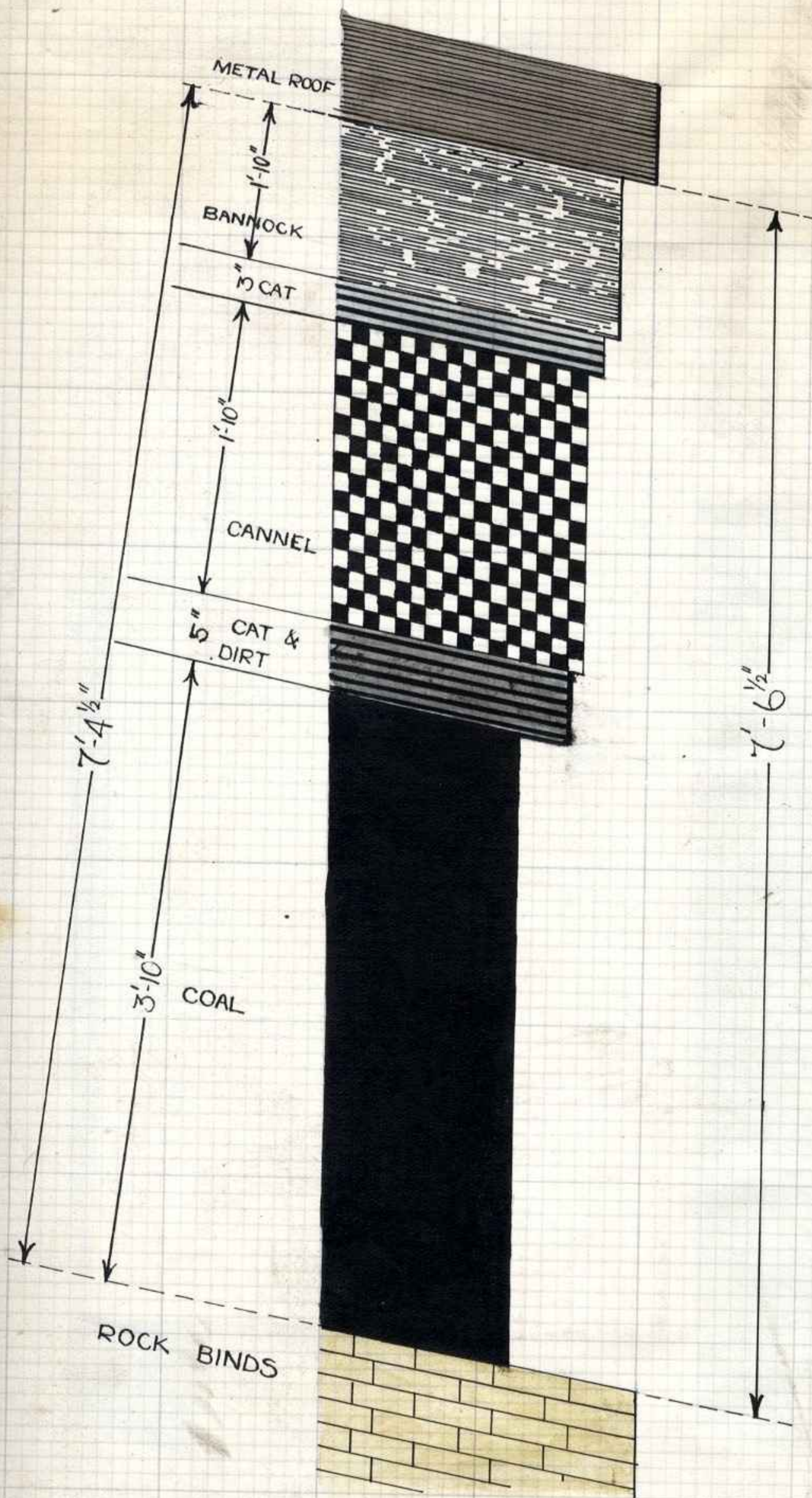
Bullhurst Coal.

Section taken on N° 5 North Level.

Norths of the Brookhouse Fault.

24:11:23.

Scale:- 1" = One Foot.



BULLHURST COAL

SECTION TAKEN ON NO. 5 NORTH LEVEL

NORTH OF THE BROOKHOUSE FAULT

24-11-23

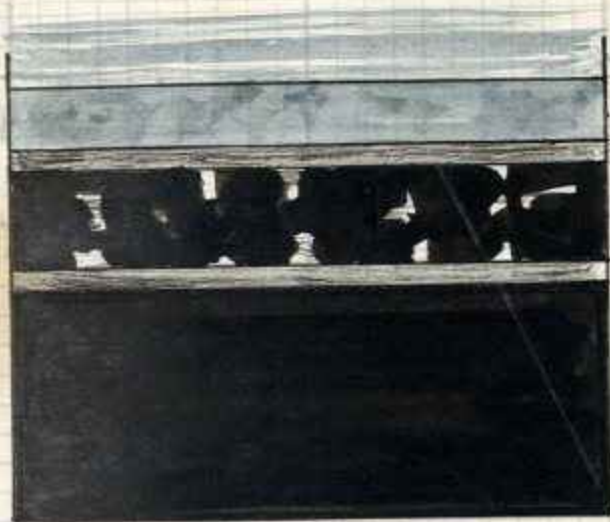
# Whitfield Colliery.

## Section of

### Bullhurst Coal

Nº 5 North Level. North of  
the Brookhouse Fault.

24/11/23.




Metal Roof.


Bannock Cat 1'-0"  
3"


Cannel Cat & Dirt 1'-10"  
5"

Coal 3'-10"

# BULLHURST SEAM

<i>N° 9 NORTH</i>		<i>Thickness</i>	
		<i>Ft</i>	<i>In</i>
	<i>Shale</i>		
	<i>Cannel</i>	1	6
	<i>COAL</i>	4	4
	<i>Coal and Dirt</i>		9
	<i>Fireclay</i>		
<i>Dip of Face 15°</i>			

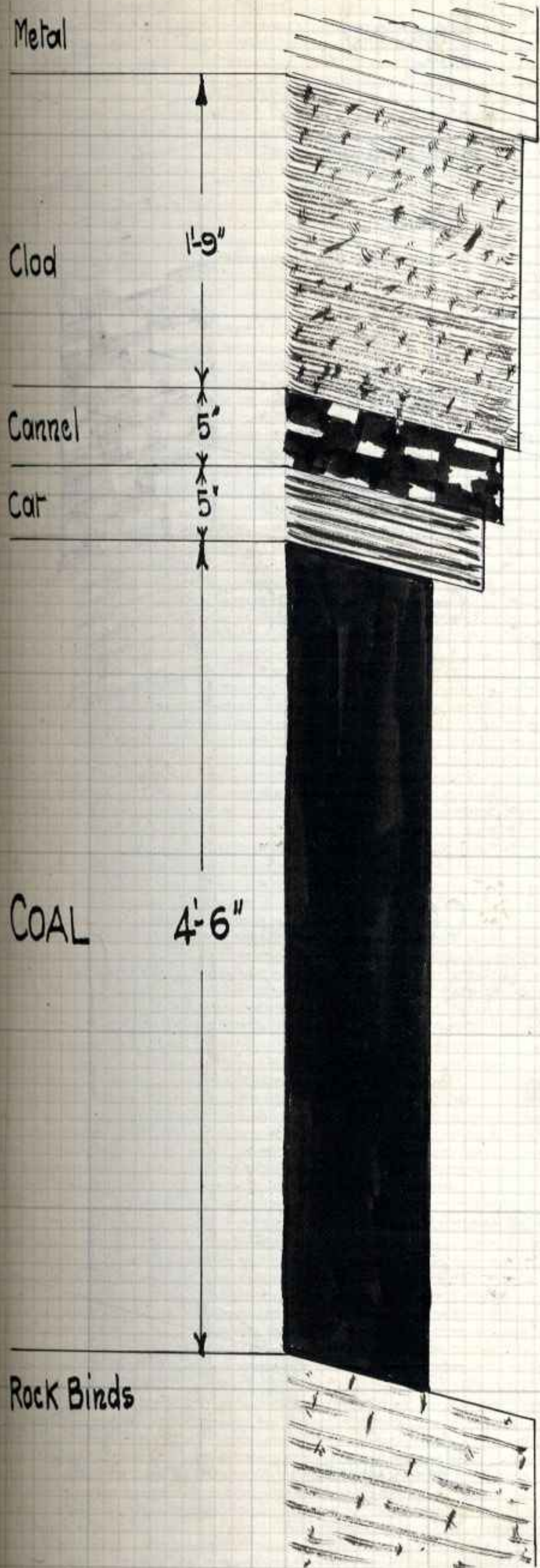
<i>N° 9 SOUTH</i>		<i>Thickness</i>	
		<i>Ft</i>	<i>In</i>
	<i>Shale</i>		
	<i>Cannel</i>	1	0
	<i>Coal and Dirt</i>		5
	<i>COAL</i>	4	8
	<i>Shale</i>		9
	<i>Fireclay</i>		
<i>Dip of Face 15°</i>			

<i>N° 11 NORTH</i>		<i>Thickness</i>	
		<i>Ft</i>	<i>In</i>
	<i>Shale</i>		
	<i>Soft shale</i>		9
	<i>Cannel</i>		1/2
	<i>Coal</i>		7
	<i>COAL</i>	4	7
	<i>Fireclay</i>	2	0
	<i>Shale</i>		
<i>Dip of Face 15°</i>			

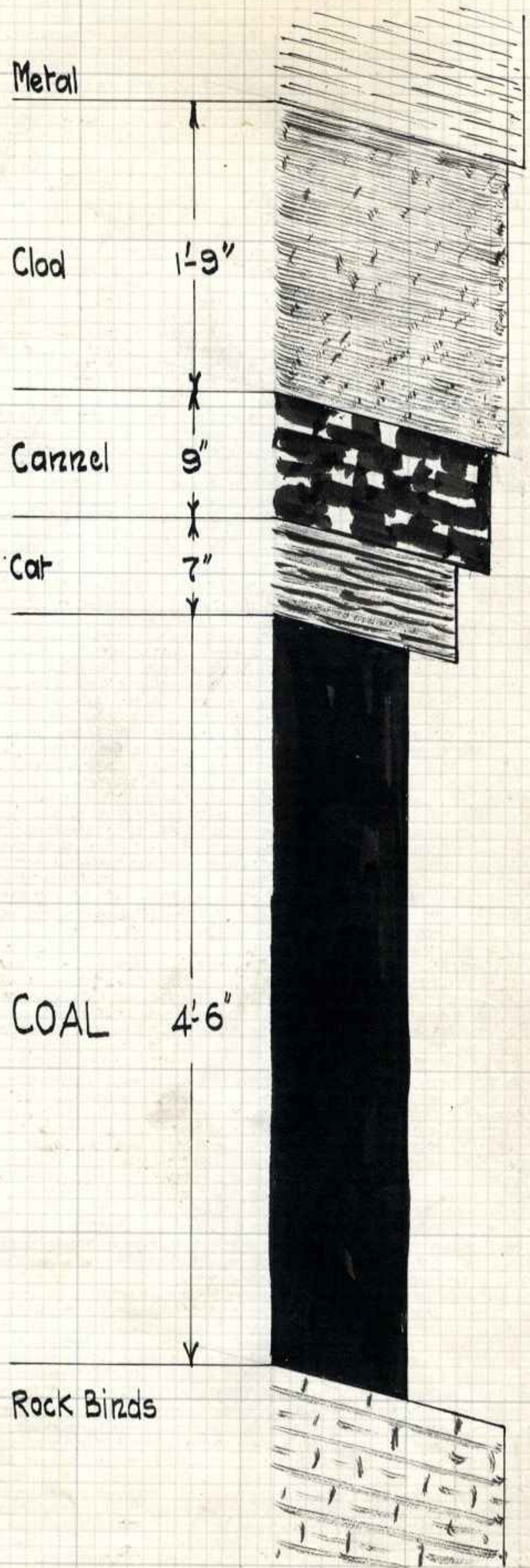


SECTIONS OF BULLHURST COAL. TAKEN ON SOUTH BARRIER

Nº 7 SOUTH LEVEL. — 22/2/44.



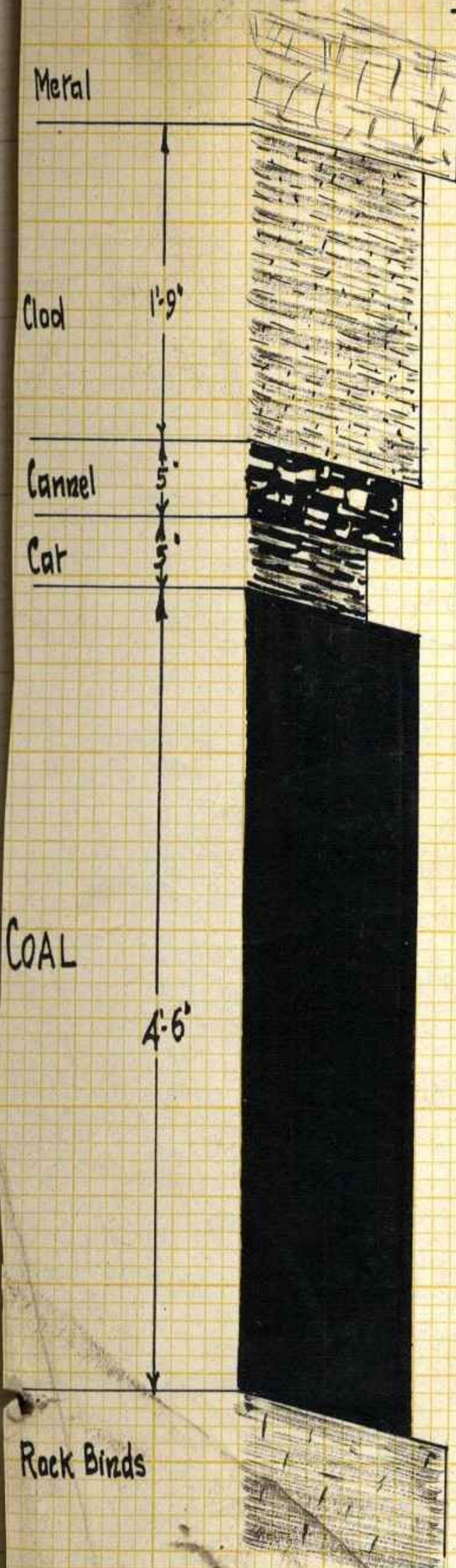
SECTION AT TOP OF FACE.



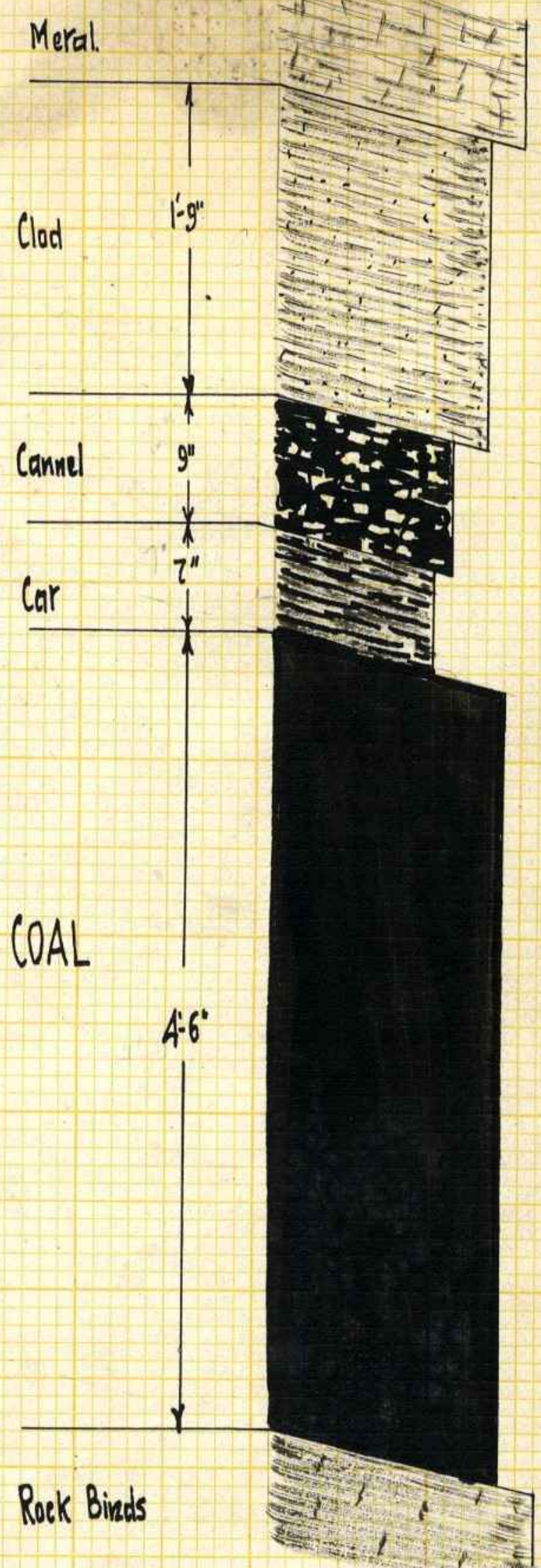
SECTION AT FACE OF LEVEL.

SECTIONS OF BULLHURST COAL - TAKEN ON SOUTH BARRIER N° 7 SOUTH.

22/2/44.



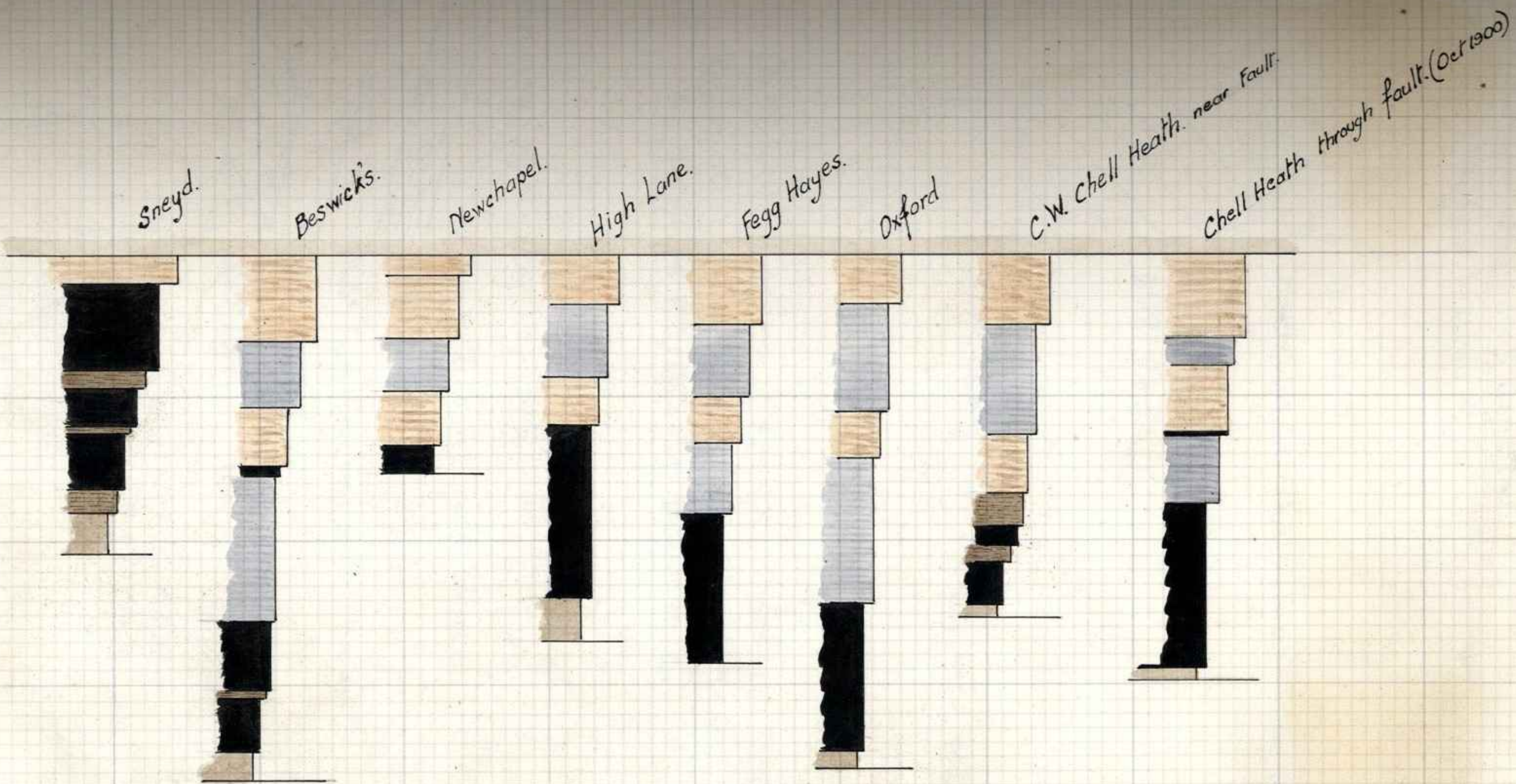
SECTION AT TOP OF FACE.



SECTION AT FACE OF LEVEL

SCALE: - ONE INCH TO ONE FOOT.

23/2/44.



SECTIONS OF BURNWOOD SEAM.

Scale 4 Feet to An Inch.

EBW. 26 Oct 1899.

GREY SHALE \_\_\_\_\_ 1'-3"

CAT AND DIRT \_\_\_\_\_ 3"

COAL 8'-0" TO 10'-0"

STRONG WARRANT

COCKSHEAD

2400 YDS WEST OF HESKETH SHAFT

BLACK SHALE ----- 6"  
SOFT BLACK SHALE ----- 2 1/2"

DULL COAL ----- 5 1/2"

BRIGHT COAL ----- 1 - 5 1/2"

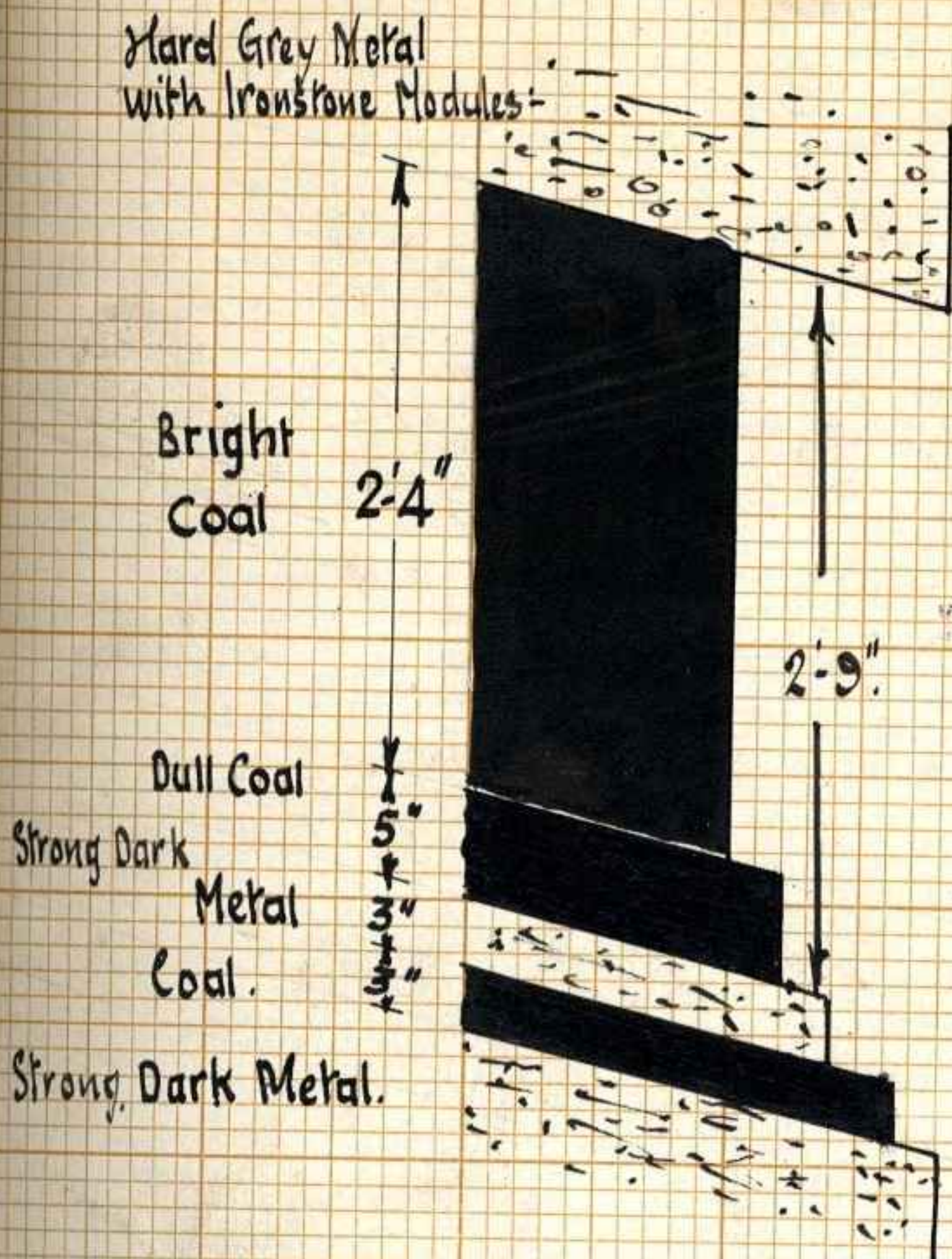
DIRT WITH COAL  
STREAKS ----- 6"

BRIGHT COAL ----- 4"

HARD WARRANT

DIAMOND

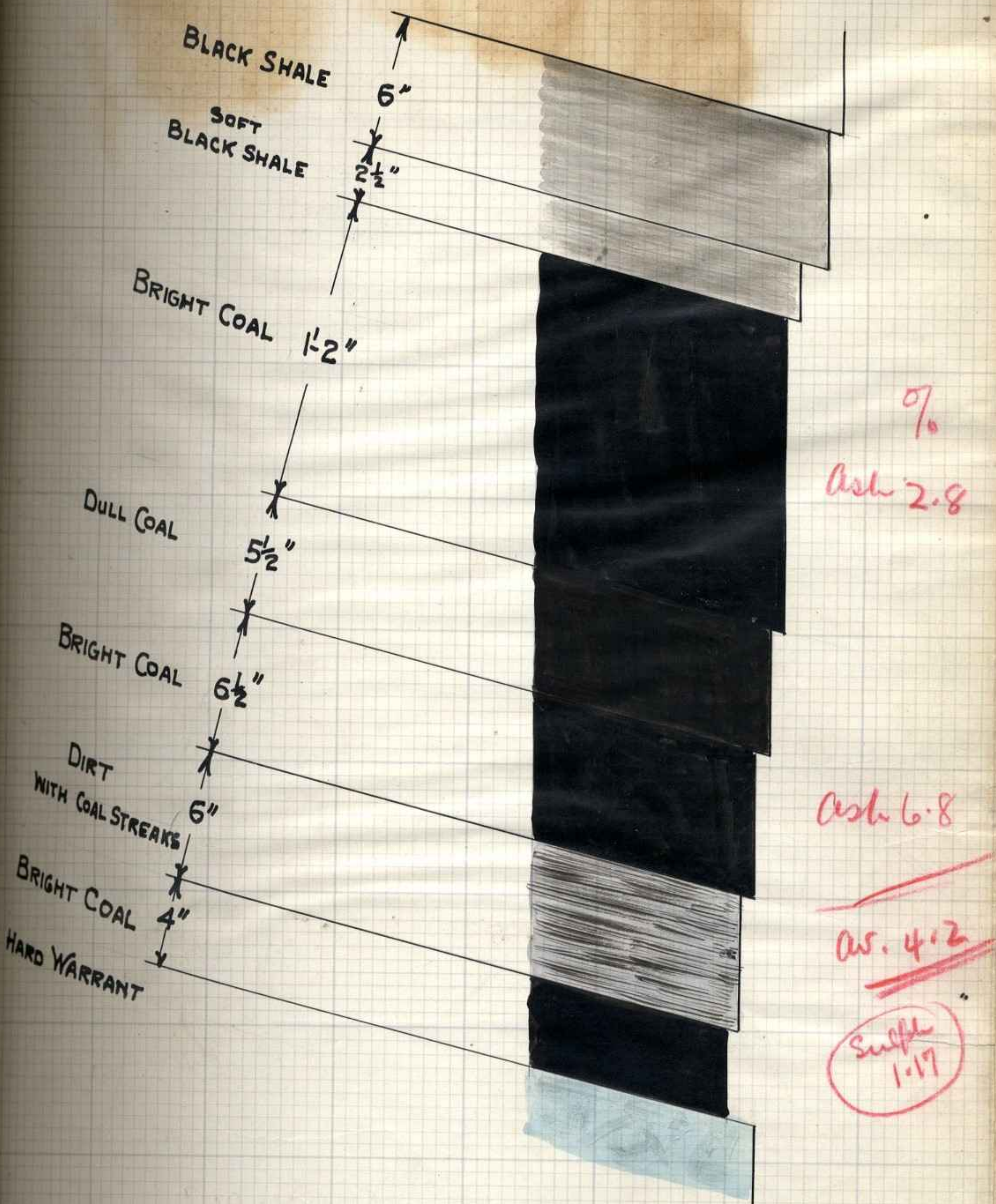
240 YDS WEST OF HESKETH SHAFT



82 yds. below Bullhurst  
73 " above Brights,

Section of Diamond Coal taken at entrance  
to Loco' Road, 241 yards from Pit Bottom,  
along Heskerh Main Crut. 9/5/52.

Scale - 1" = One Foot.



DIAMOND COAL.

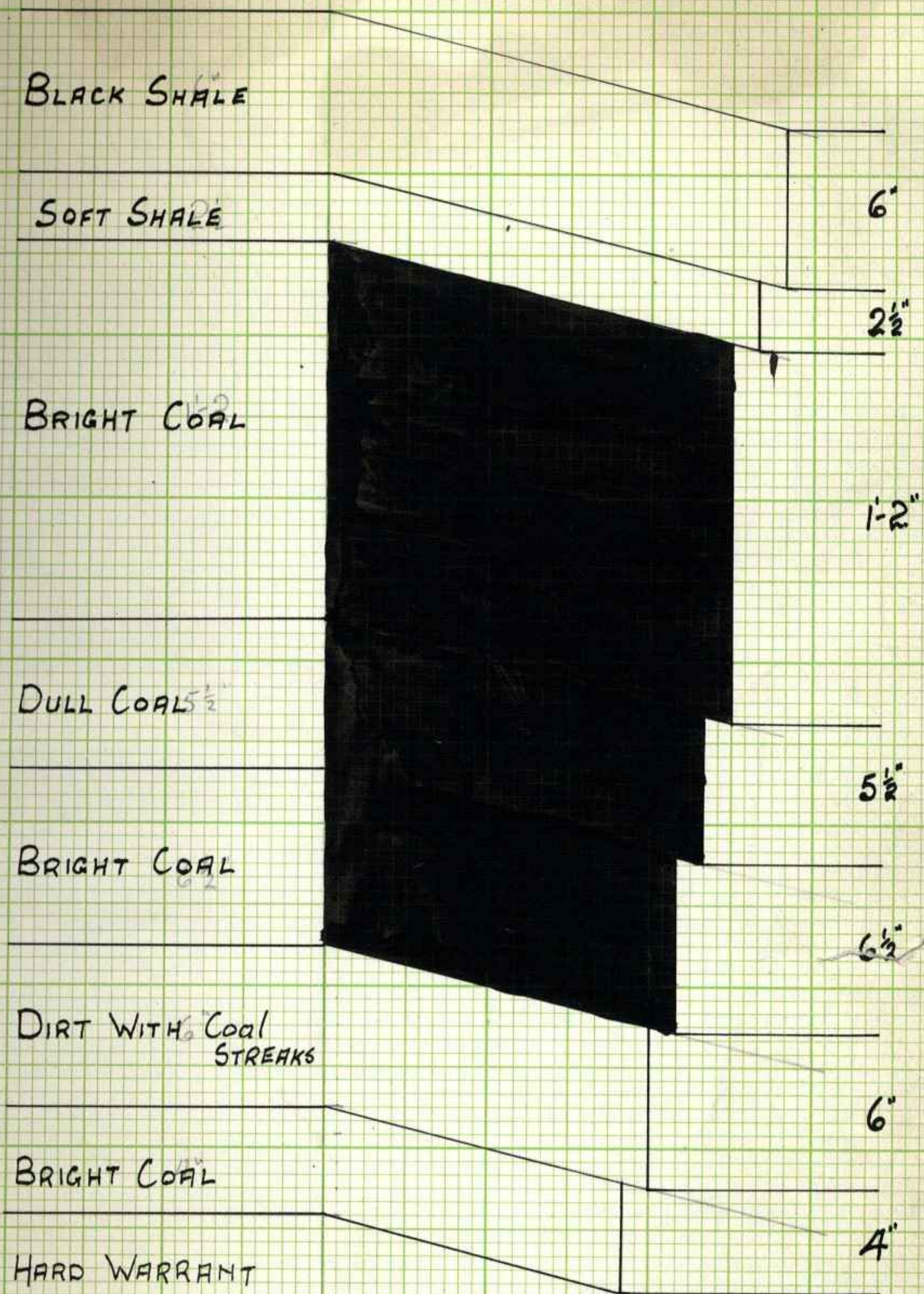
82 yds below B'hurst  
 13 " above Bright

SECTION TAKEN IN RETURN CRUT FROM  
 THE BRIGHTS COAL TO THE PLATT PIT.

30/10/39.

SCALE:- 2" = ONE FOOT.

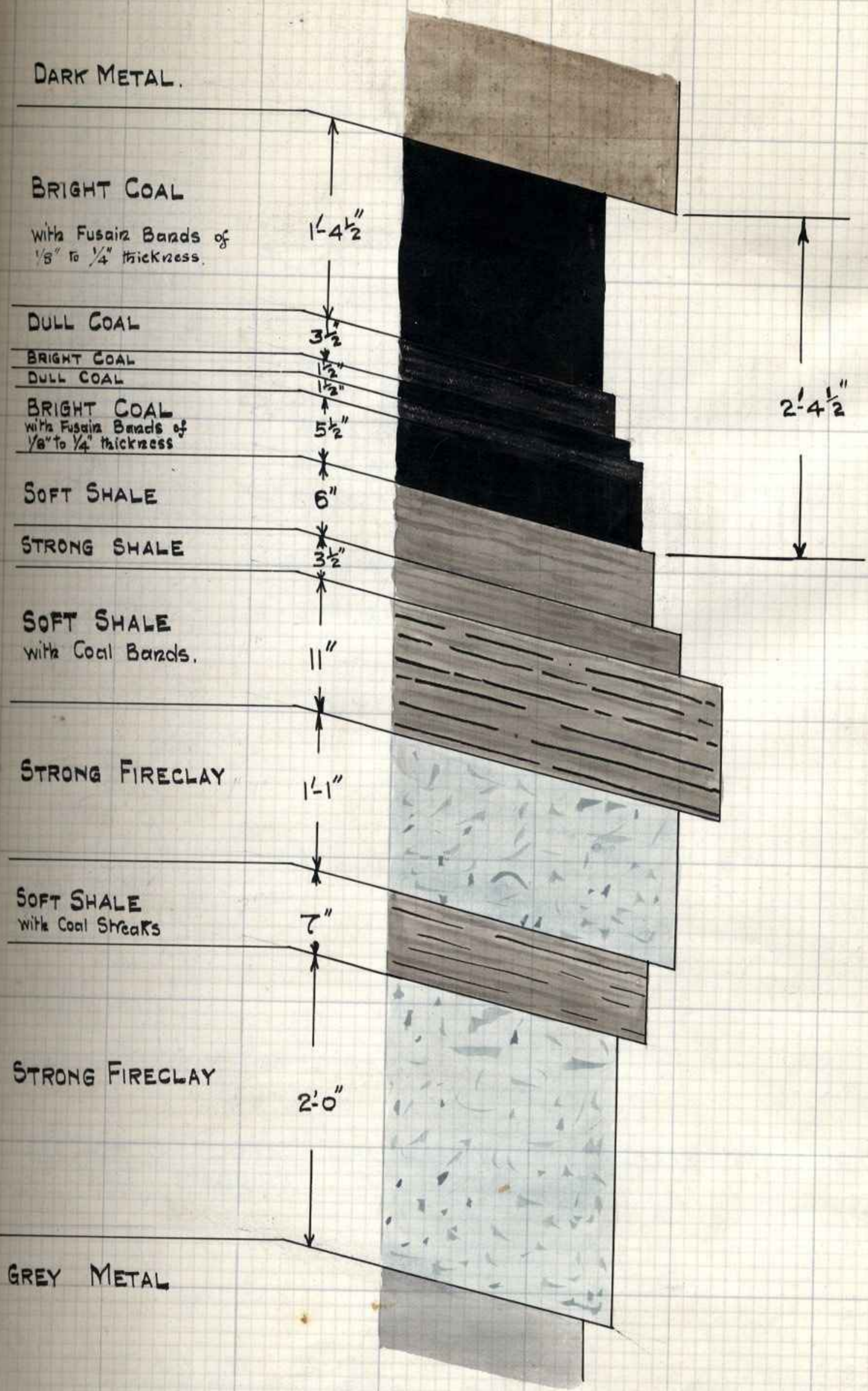
# DIAMOND COAL



SECTION TAKEN IN RETURN CRUT FROM SOUTH BRIGHTS.  
30/10/39.

Scale 2" = One Foot





**FLATTS COAL.**

Section taken 26/2/41 in 1 in 3 Rise Crut  
off Institute Bambury Crut level.

Scale: - 1" = One Foot.

DARK METAL

BRIGHT COAL ----- 1'-4 1/2"

DULL COAL ----- 3 1/2"  
BRIGHT COAL ----- 1 1/2"  
DULL COAL ----- 1 1/2"  
BRIGHT COAL ----- 5 1/2"

SOFT SHALE WITH  
COAL STREAKS ----- 7"

SOFT SHALE WITH  
COAL STREAKS ----- 7"

STRONG FIRECLAY ----- 2'-0"

GREY METAL

FLATTS

700 YDS WEST OF HESKETH SHAFT

DARK METAL

COAL ----- 3'-3"

SOFT SHALE ----- 6"  
STRONG SHALE ----- 2 1/2"

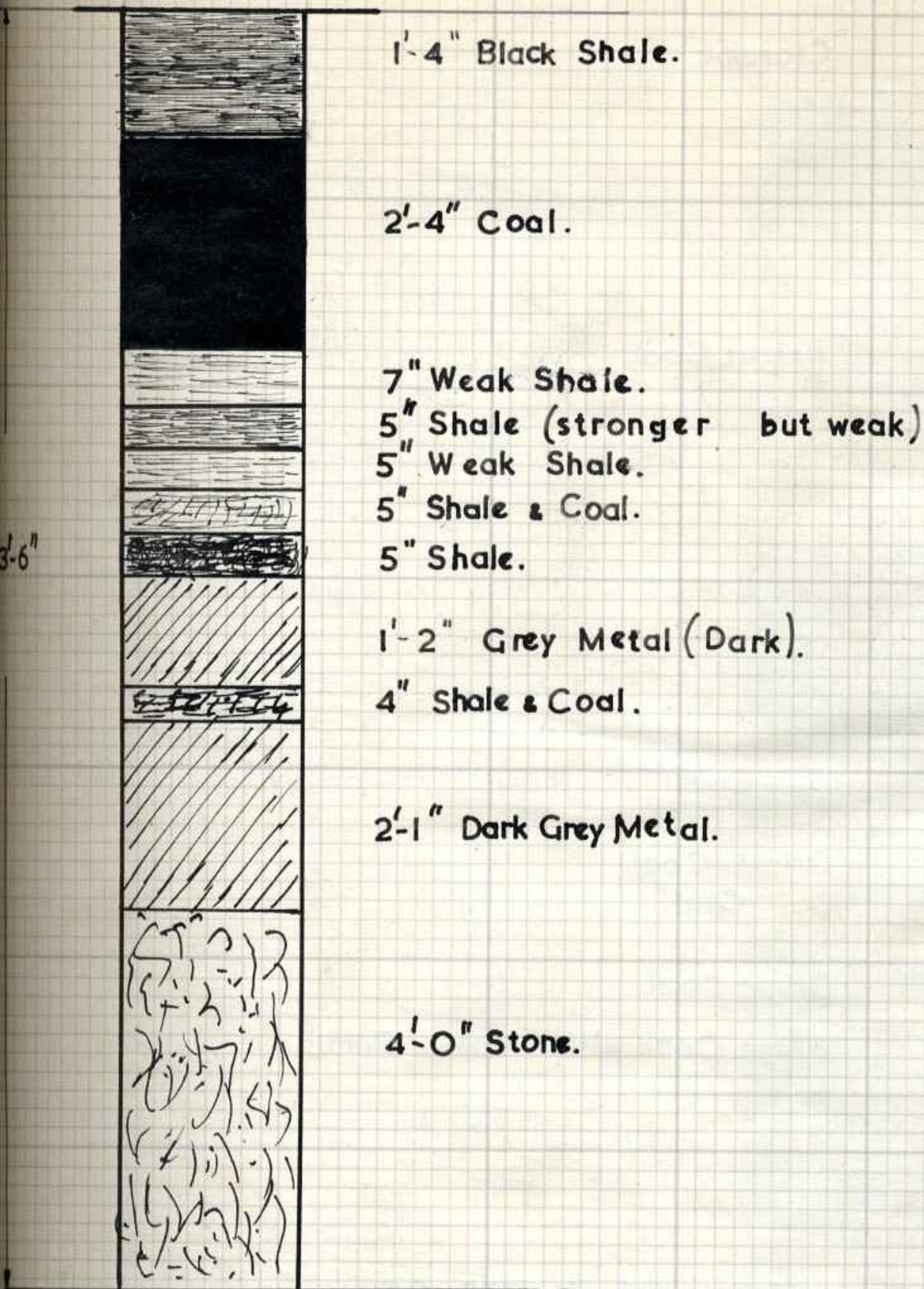
SOFT SHALE WITH  
CAT BANDS ----- 11"

STRONG FIRECLAY 1'-0"

FIRECLAY ----- 2'-0"

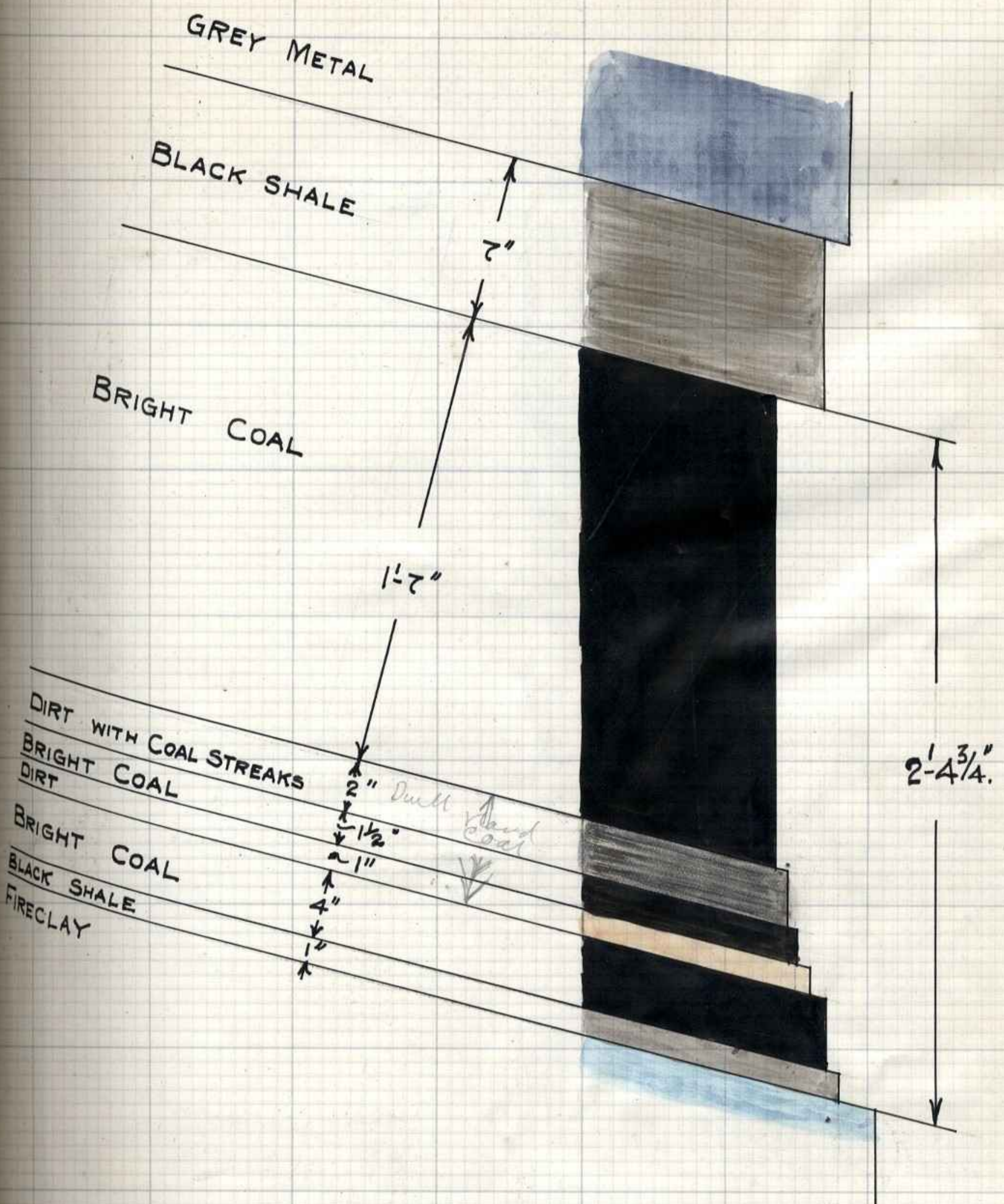
FLATTS

2030 YDS WEST OF HESKETH SHAFT



SECTION OF FLATTS COAL TAKEN ON FLATTS NEW CRUT.  
AT No 2 BAMBURY. 20 - 10 - 49

SCALE  $\frac{1}{2}$ " = ONE FOOT.

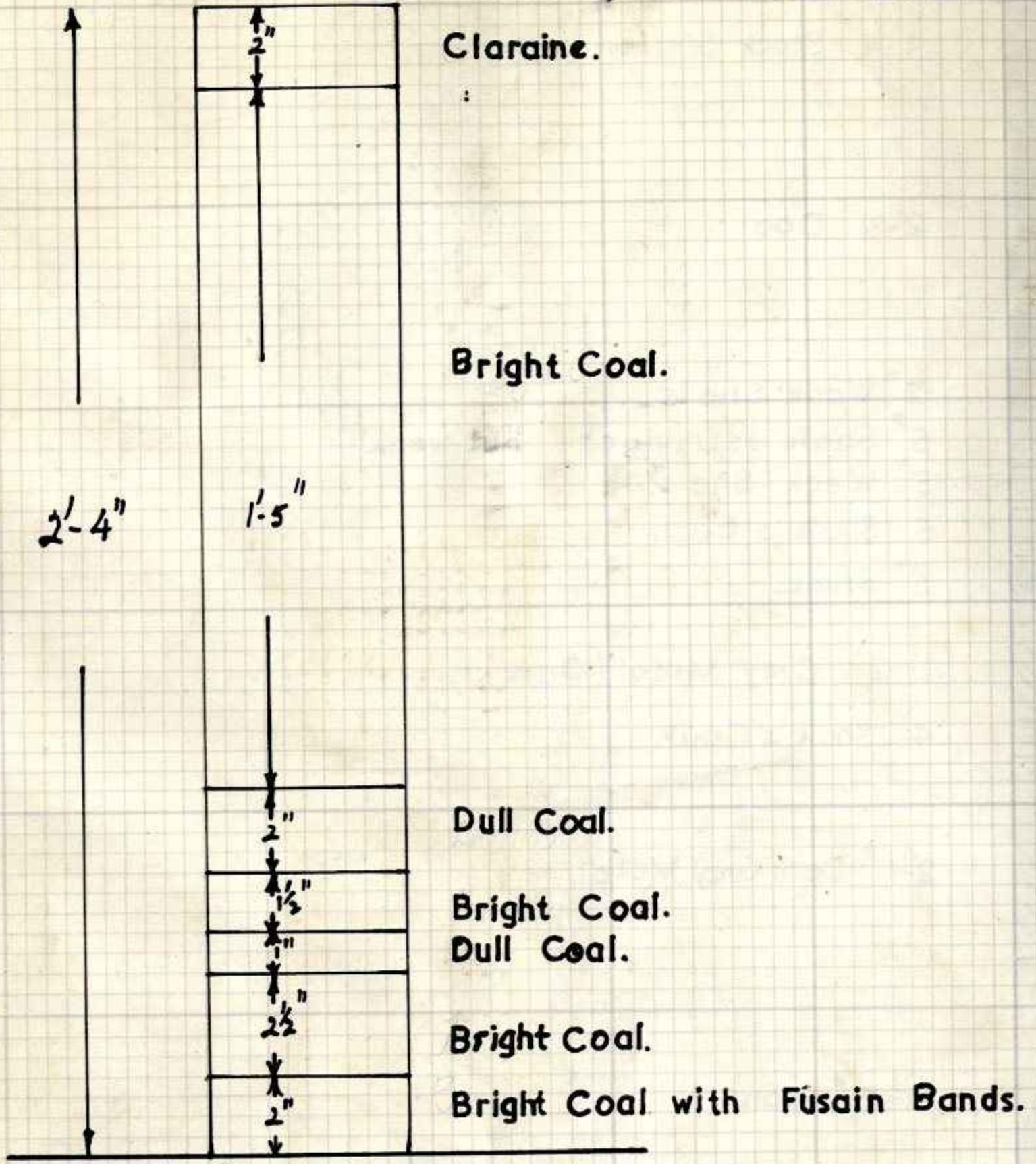


**FLATTS COAL.**

Section taken in Hesketh  
Back Cut - 17-11-1939.

Scale: - 2" = One Foot.

Whitfield Colliery.



DETAILED SECTION OF FLATTS COAL

# MAP OF THE BRITISH ISLES

## WITH GEOLOGICAL BOUNDARIES

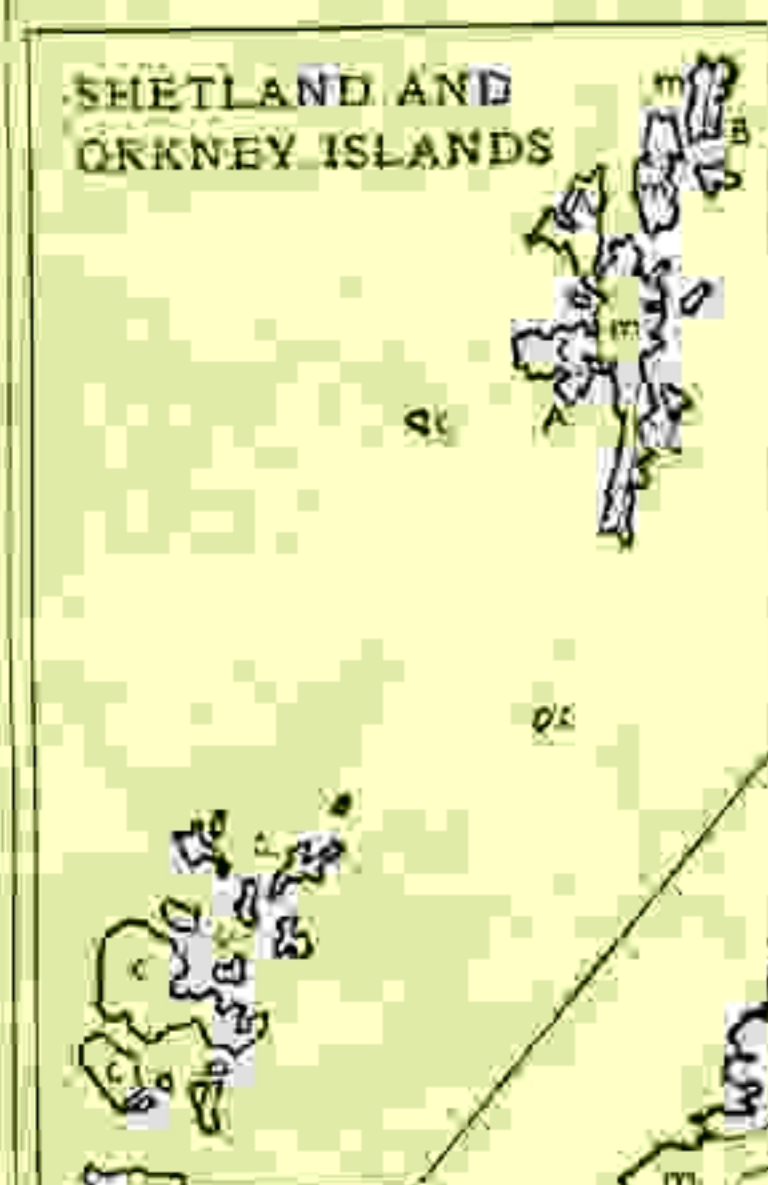
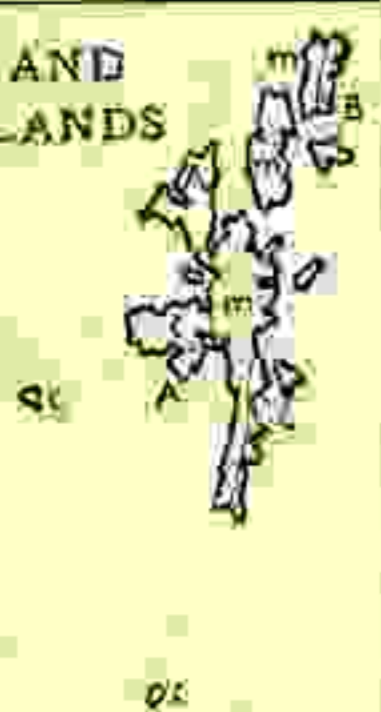
### FOR THE USE OF STUDENTS

Compiled from the latest available data  
by T. Smithson, Ph.D., F.G.S.

December 1934.

0 20 40 60 80 100 miles

#### SHETLAND AND ORKNEY ISLANDS

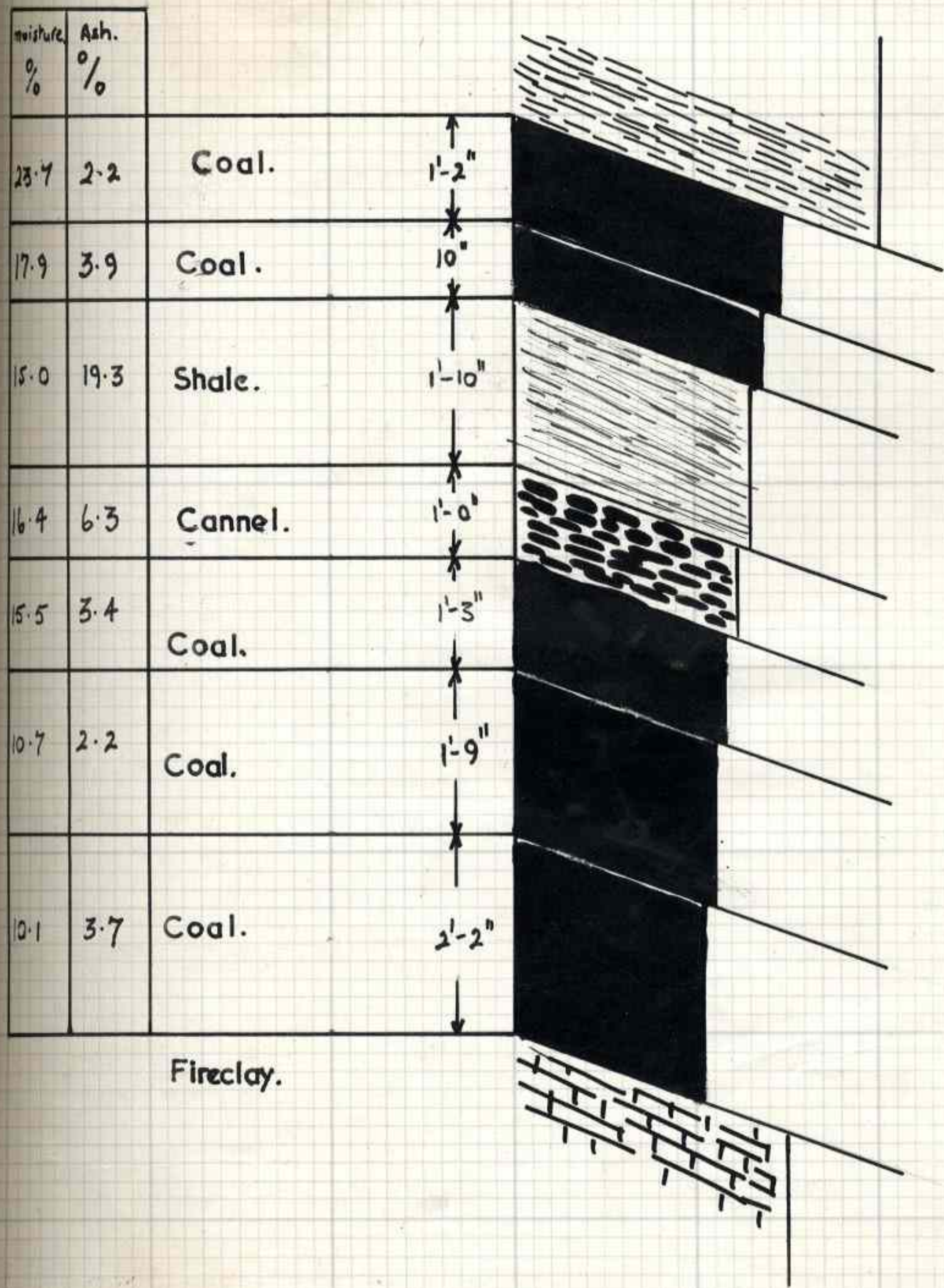


#### CHANNEL ISLANDS



#### INDEX

		ALLUVIUM (a)	
TERTIARY	k	PLIOCENE	
	i	OLIGOCENE & EOCENE	
	h	CRETACEOUS	CHALK
	g		
MESOZOIC	f	JURASSIC	M. AND J. JURASSIC
	e		
	d	TRIAS	
	c	PERMIAN	
PALAEOZOIC	b	CARBONIFEROUS	COAL MEASURES
	a		
	z		
	y	DEVONIAN	
	x	SILURIAN	
	w	ORDOVICIAN	
	v	CAMBRIAN	
	u	TURRIAN WITH TRONDHJEMIAN AND UREDJIAN	
	t	DALRADIAN	
	METAMORPHIC	m	MOINIAN
l		LEWISIAN	
A	ACID INTRUSIVE ROCKS		
B	BASIC INTRUSIVE ROCKS		
V	TERTIARY VOLCANIC		
V'	PALAEOZOIC VOLCANIC		



SECTION OF GREAT ROW COAL. (OPEN CAST.)

Taken at Latebrook near Tunstall Stoke-on-Trent.  
 February 26<sup>th</sup> 1944 :- Scale  $\frac{1}{2}$ " = One Foot.

(Whitfeild Colliery.)

GREY METAL WITH  
WITH IRONSTONE BANDS 46'-0"

COAL ----- 4'-3"

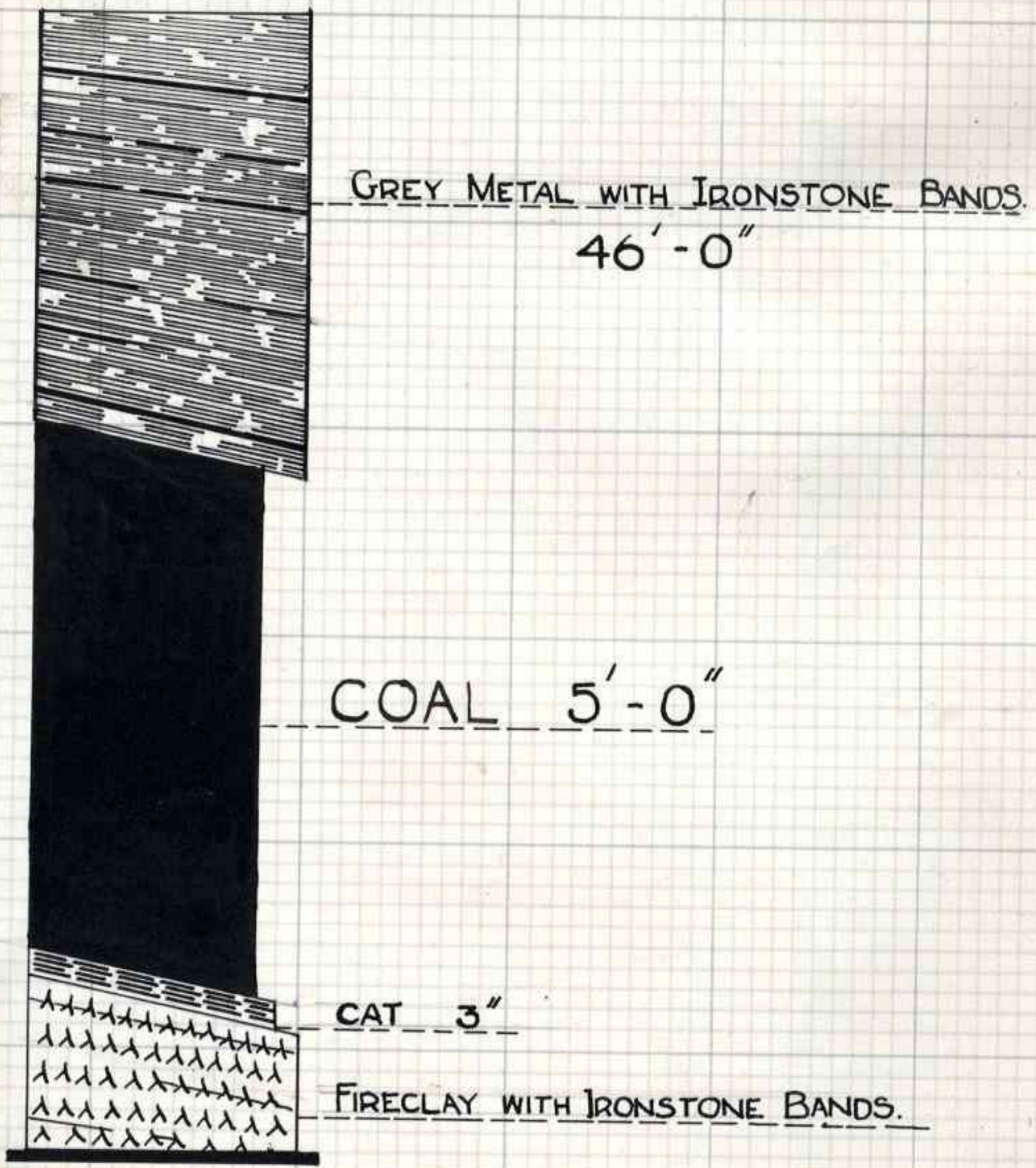
CAT ----- 3"

FIRECLAY WITH  
IRONSTONE BANDS

HARDMINE

1550 YDS WEST OF HESKETH SHAFT



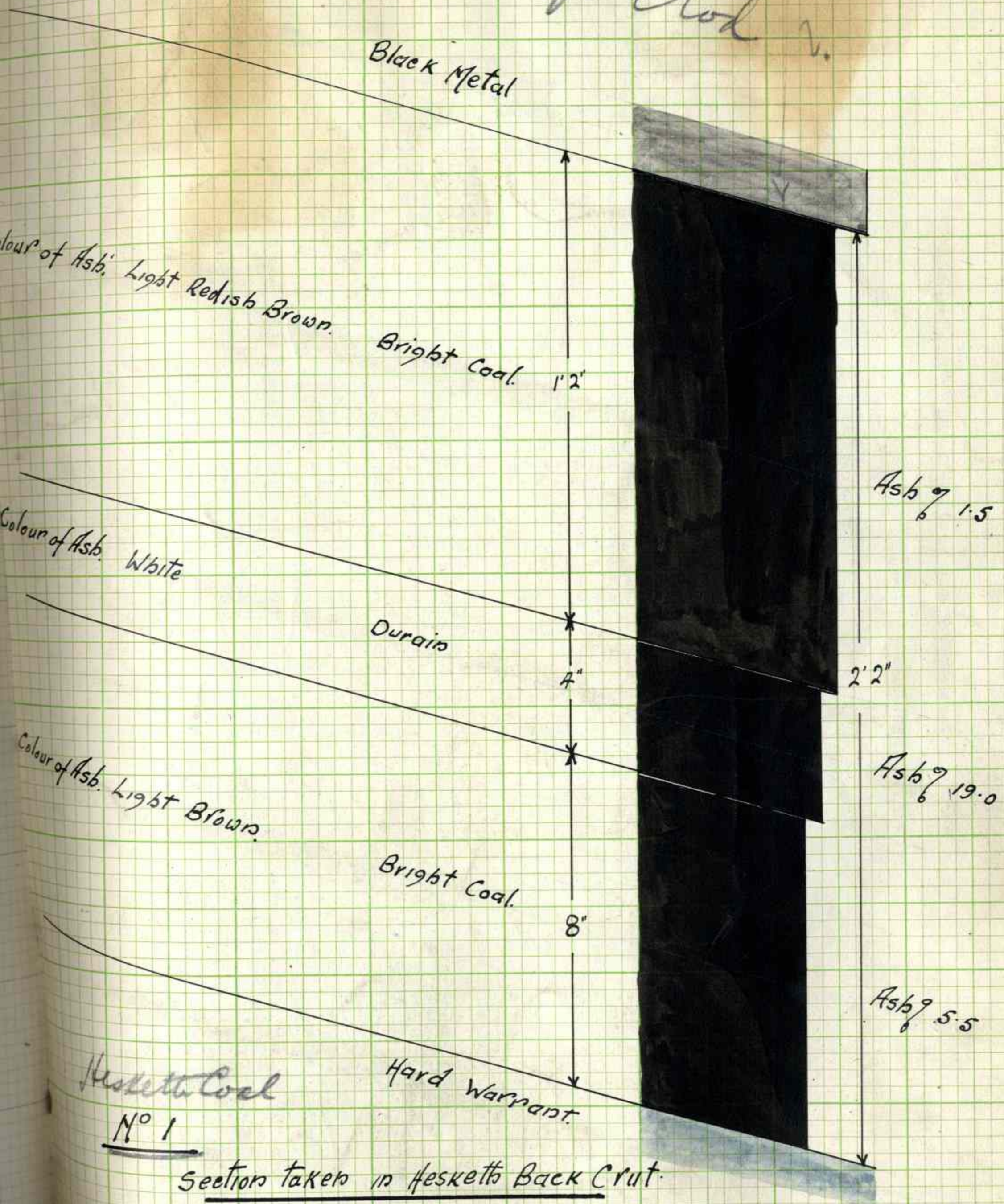


HARD MINE COAL.

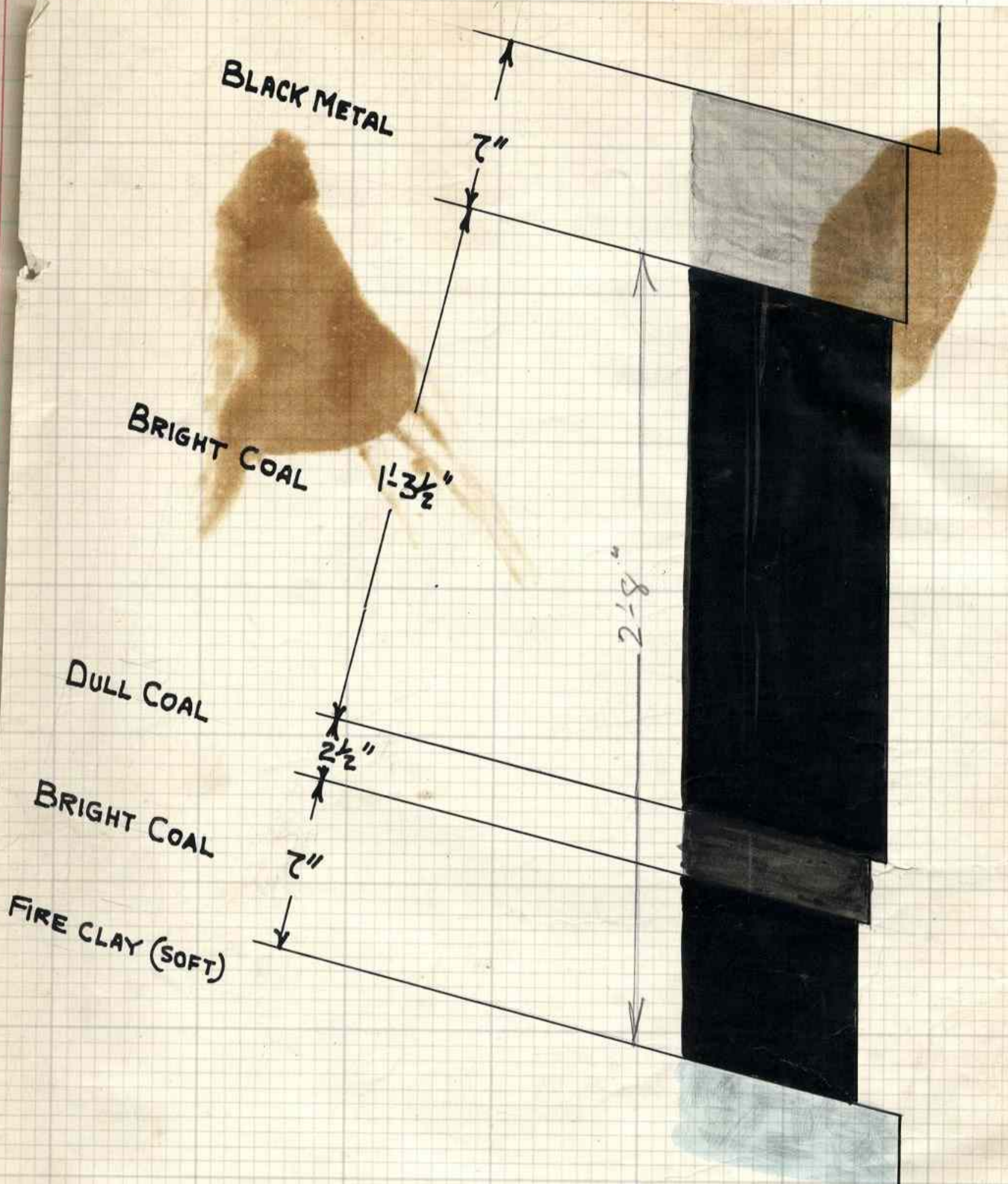
SCALE 1/2" = ONE FOOT.

Hard roof

Left Clod



Sections taken in Hesketh Back Crut.  
 Scale 3" = One Foot.



SILVER.

HESKETH COAL.

114 yds below Bkurst.  
41 " above Brights.

SECTION TAKEN IN RETURN CRUT FROM THE BRIGHTS COAL TO THE PLATT PIT.

30/10/39

SCALE:- 2" = ONE FOOT.

INFERIOR COAL

HARD SHALE ----- 2"

DIRT WITH COAL  
STREAKS ----- 6"

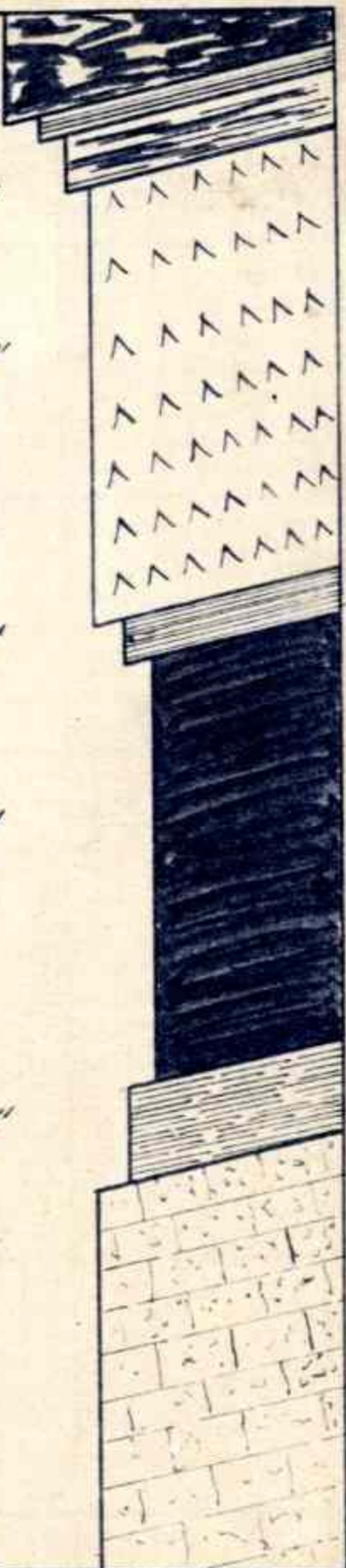
STRONG FIRECLAY -- 3'-5"

STRONG SHALE ----- 5"

COAL ----- 3'-4"

STRONG WARRANT -- 9"

ROCK BINDS

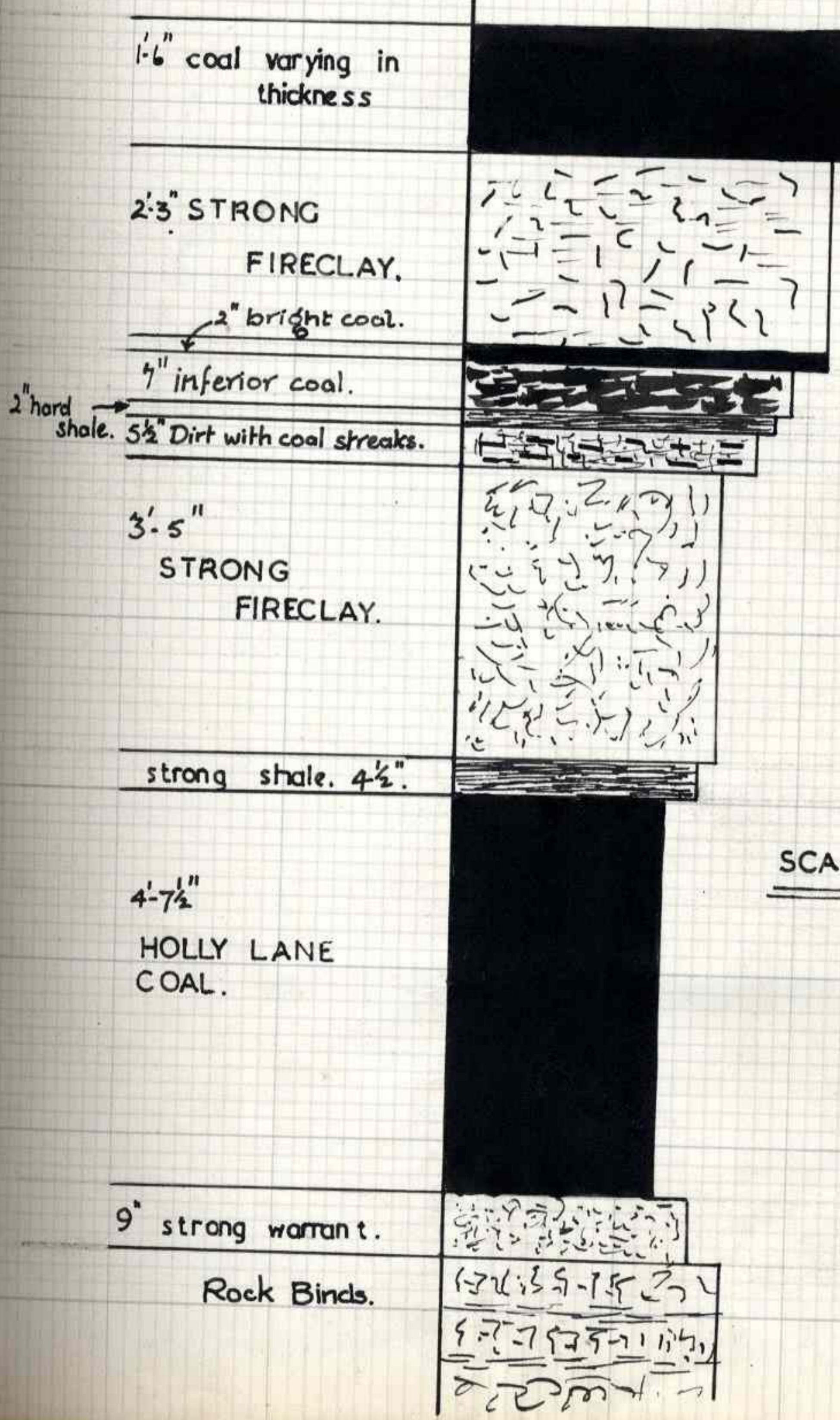
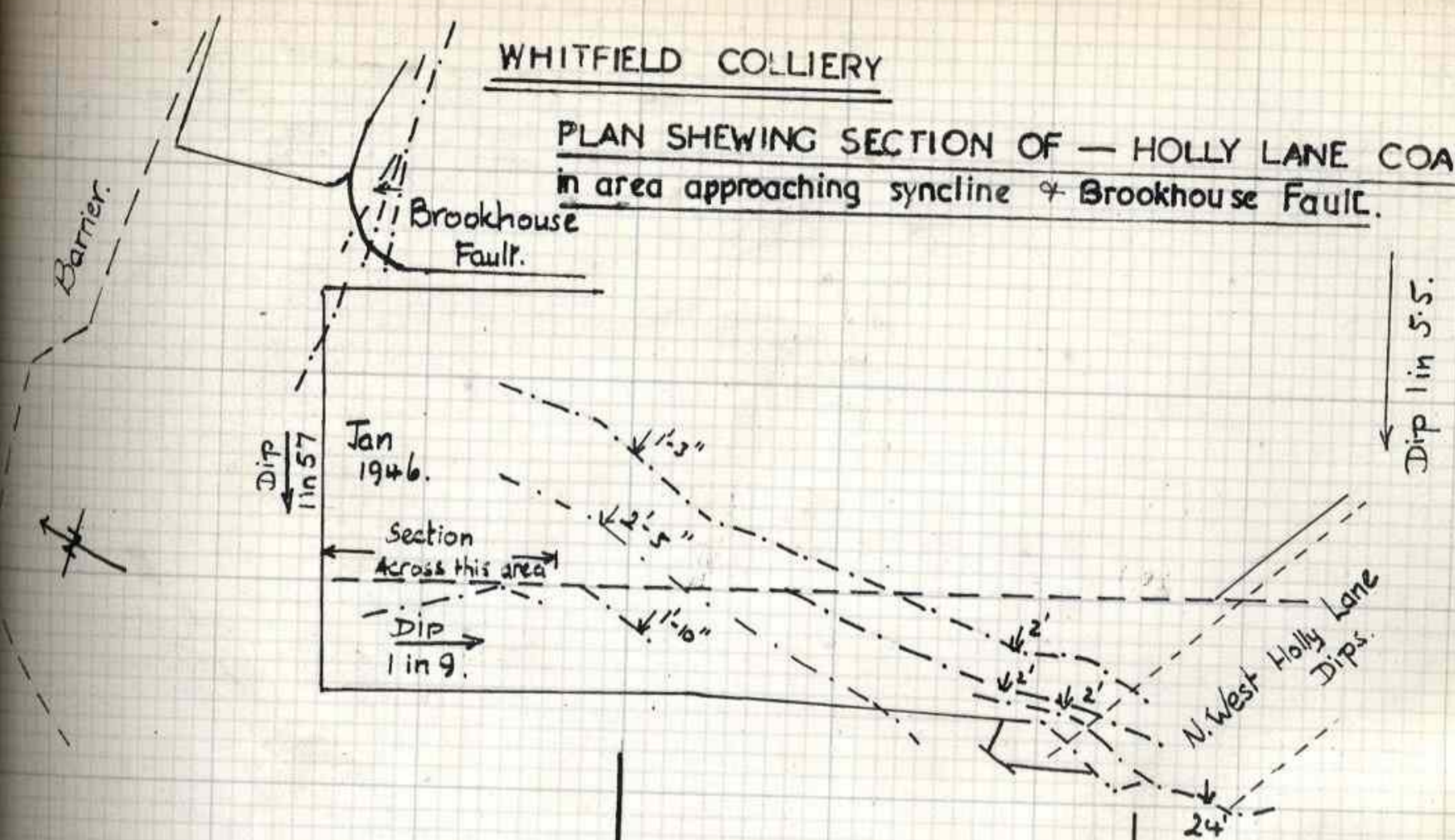


HOLLY LANE

2400 YDS WEST OF HESKETH SHAFT

WHITFIELD COLLIERY

PLAN SHEWING SECTION OF — HOLLY LANE COAL. —  
in area approaching syncline & Brookhouse Fault.



SCALE: - 1/2" = ONE FOOT

ROCK ----- 36' - 0"

COAL ----- 2' - 6"

FIRECLAY ----- 2"  
INFERIOR COAL ----- 3"

COARSE FIRECLAY



LITTLEROW

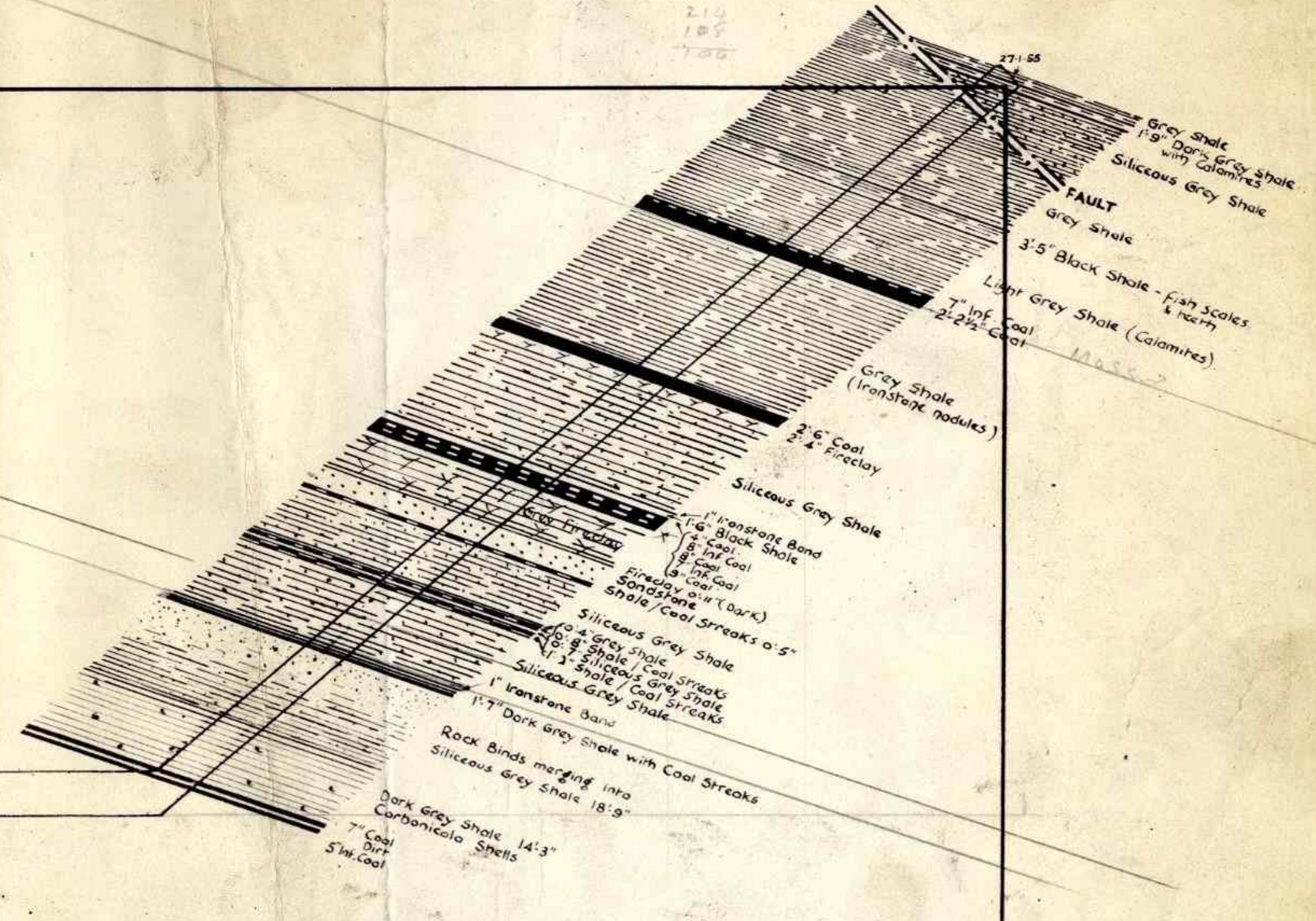
1950 YDS WEST OF HESKETH SHAFT

**CHATTERLEY WHITFIELD COLLIERY**

MIDDLE PIT

PROVING CRUT TO MOSS COAL

SCALE : 33'-0" to 1 INCH



Scraggs Crut ← 1 IN 70 -

To No. 3 North  
Belringer Main Level.

2'-8" C.  
2" D.  
6" C. } RAGMAN COAL

2'-7" LITTLE ROW COAL

DARK METAL

BASS ----- 1'-6"

COAL 3'-6"

SHALE TO

COAL 5'-3"

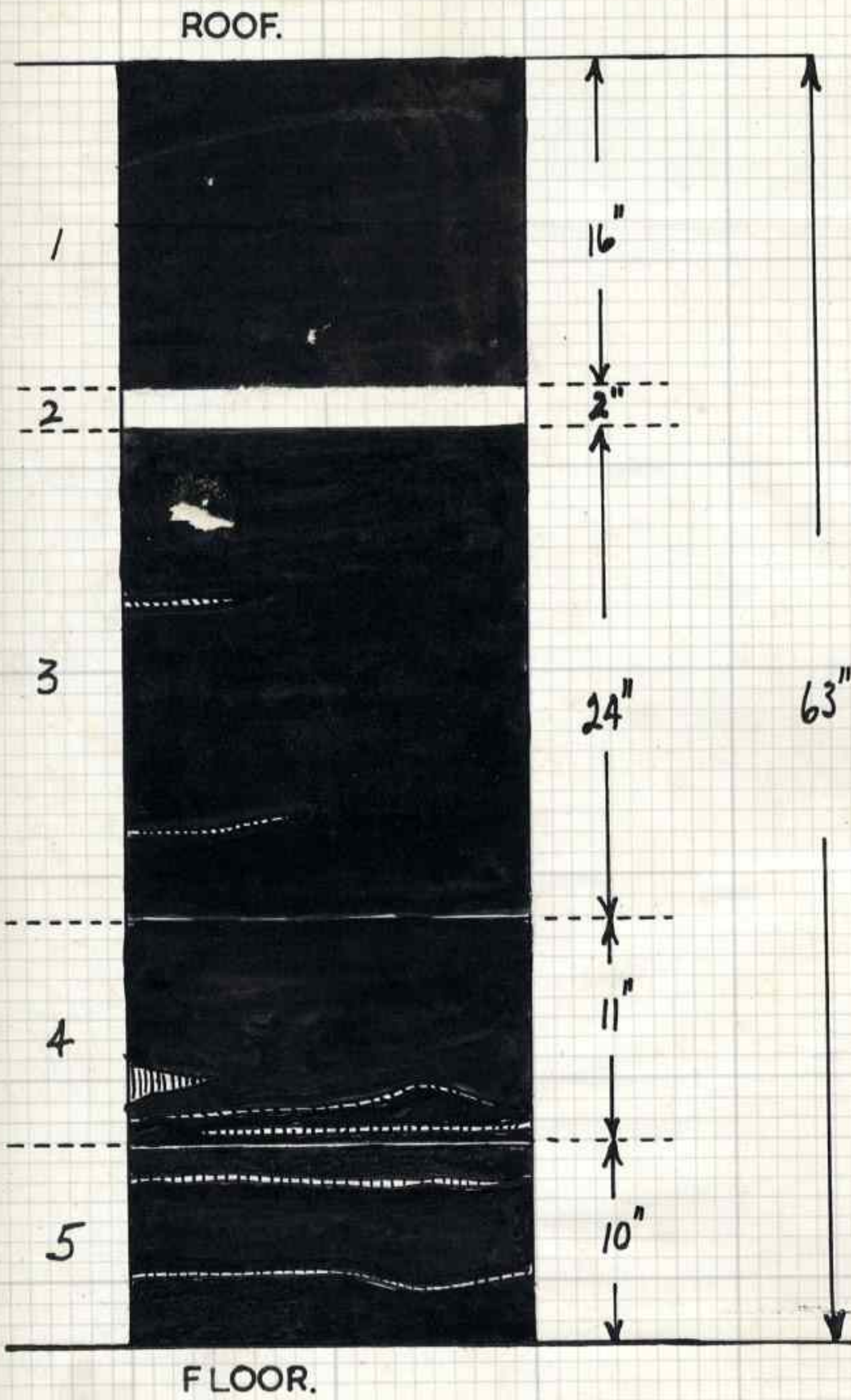
STRONG CLUNCH ----- 5'-0"

MOSS

2550 YDS WEST OF HESKETH SHAFT



MOSS COAL.



(Whitfield Colliery.)

KEY.

Bright Coal.

Dull Coal.

Banded Bright & Dull Coal.

Fusain Bands.

Dirt.

SCALE:  $\frac{1}{10}$

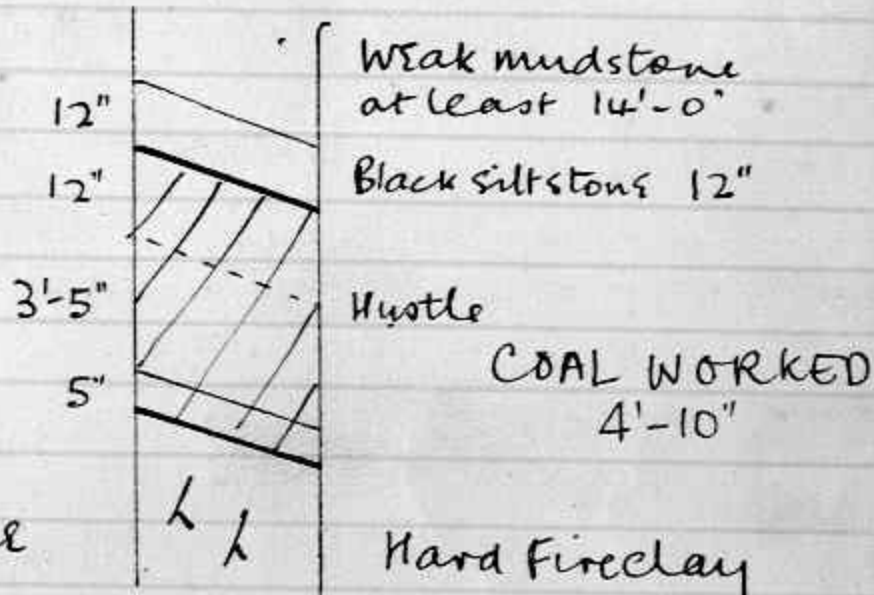
# No. 2 SOUTH MOSS

1st July 1964

Main Level



Top Level



DIP 16°  
on line of Face

BLACK METAL

BLACK METAL WITH  
IRONSTONE BANDS ----- 9 1/2"

BLACK METAL WITH  
COAL STREAKS ----- 8 1/2"

COAL ----- 3' - 3"

PARTING ----- 1"

INFERIOR COAL ----- 2' - 3"

SHALE ----- 1' - 1"

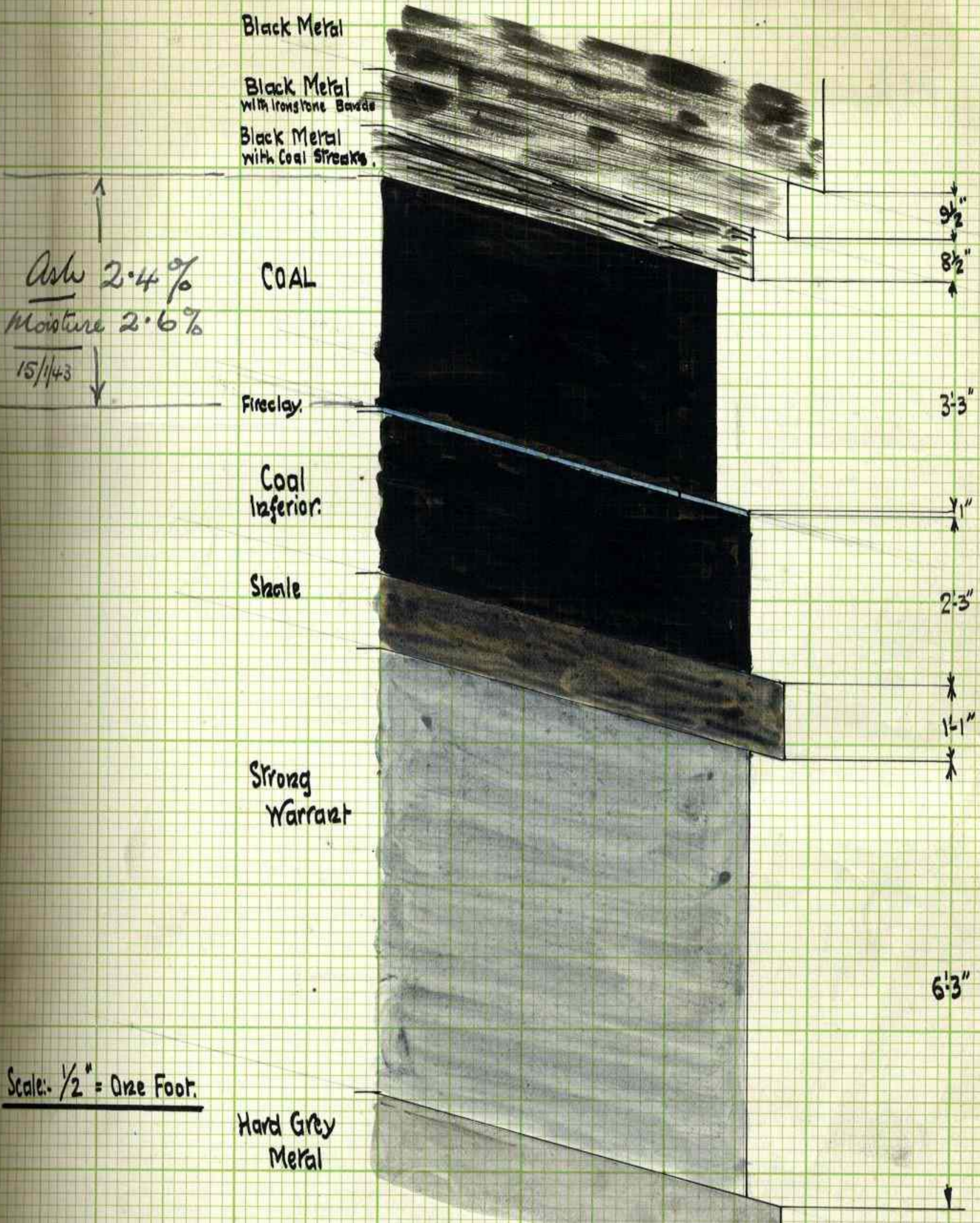
WARRANT ----- 6' - 0"  
LYING ON HARD  
GREY METAL



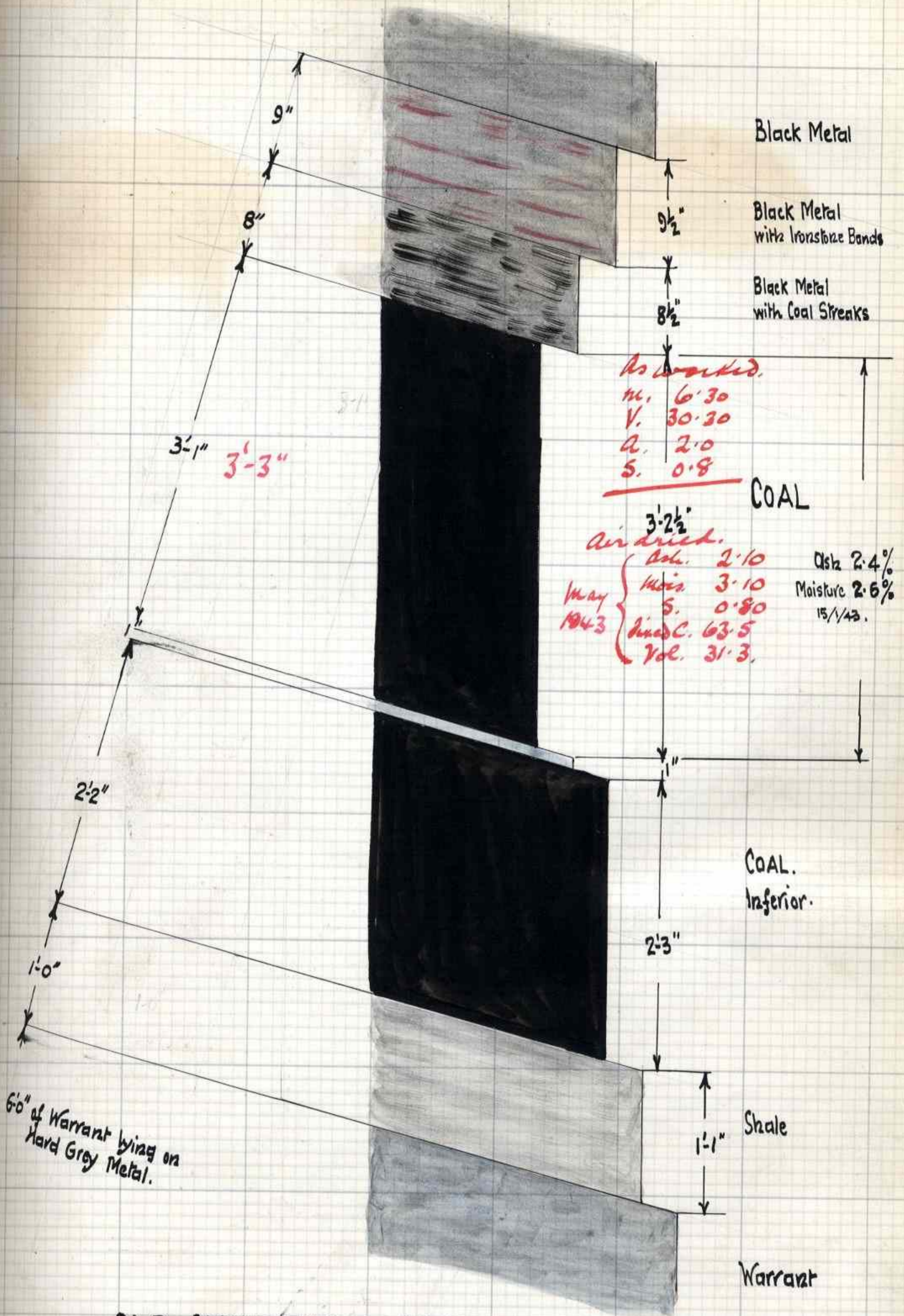
OLD WHITFIELD

2240 YDS WEST OF HESKETH SHAFT

# OLD WHITFIELD COAL.



Section taken in Hesketh Main Cut. 15/1/43. Dip of Seam 1 in 3.7. Depth below Surface 625 Yds.  
 Distance from Hesketh Shaft 1 1/4 Miles.



## OLD WHITFIELD COAL.

Section taken in Hesketh Main Gut. 15/1/43. Dip of Seam 1 in 3.7.  
 Depth below Surface. 625 Yds. - Distance from Hesketh Shaft. - 1/4 Miles.

SANDSTONE ROCK -- 4'-6"

COAL ----- 2"  
SHALE ----- 1"

COAL ----- 2'-2"

SHALE ----- 3"

COAL ----- 4"

FIRECLAY ----- 6'-3"



RAGMAN

2200 YDS WEST OF HESKETH SHAFT

Rock with Ironstone  
Nodules overlying  
4-6" Sandstone Rock.

Sandstone Rock.  
with partings.

COAL  
Shale

Coal

Shale  
Coal

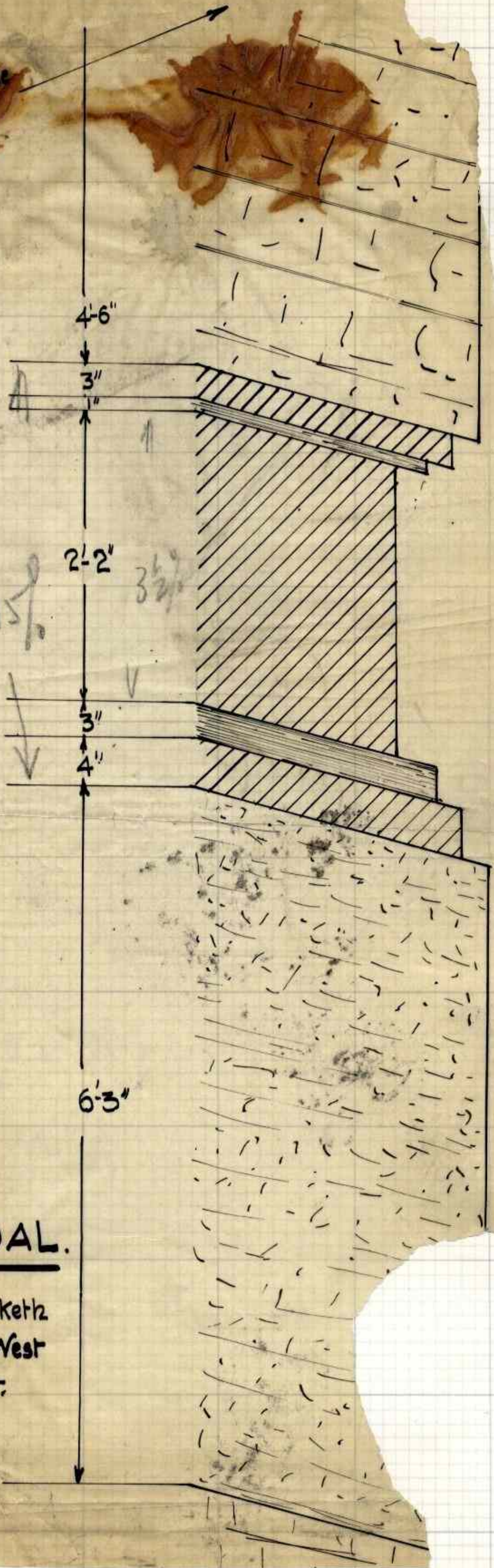
Fireclay

# RAGMAN COAL.

Section taken in the Hesketh  
Main Cut - 400 Yards West  
of the High Lane Fault.

9th April - 1943.

Rock.



Rock with Ironstone  
Nodules overlying  
4-6" Sandstone Rock.

Sandstone Rock  
with partings.

COAL  
Shale

COAL

Shale  
COAL

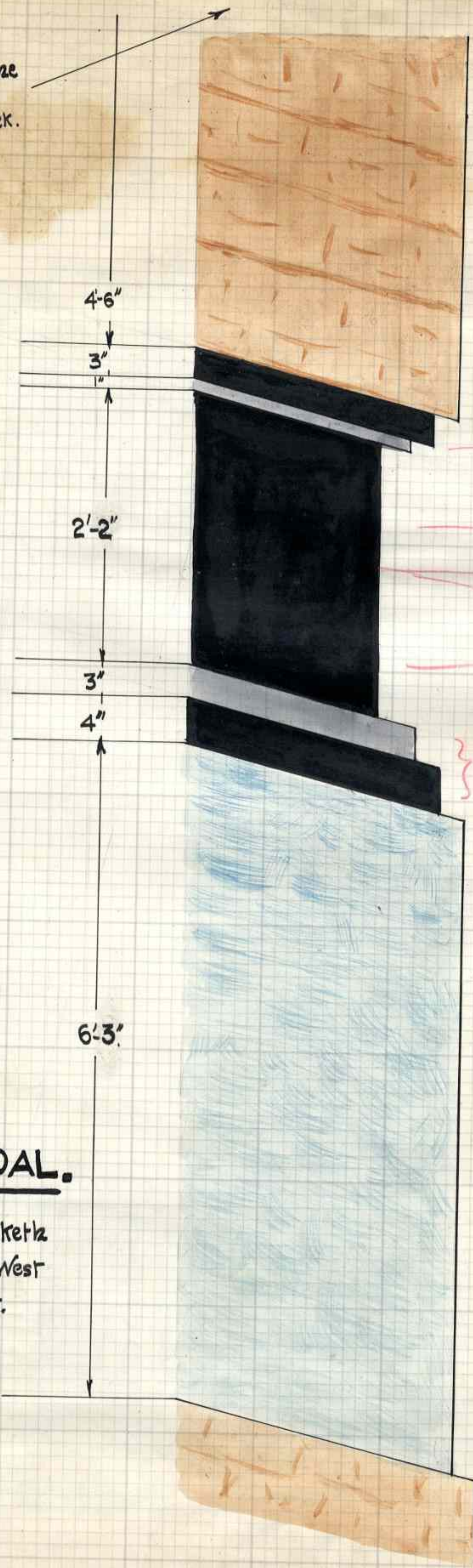
Fireclay

# RAGMAN COAL.

Section taken in the Hesketh  
Main Cut - 400 Yards West  
of the High Lane Fault.

9<sup>th</sup> April - 1943.

Rock.



Ash %

12.7

6.3

4.6

Av. 6.2

18%

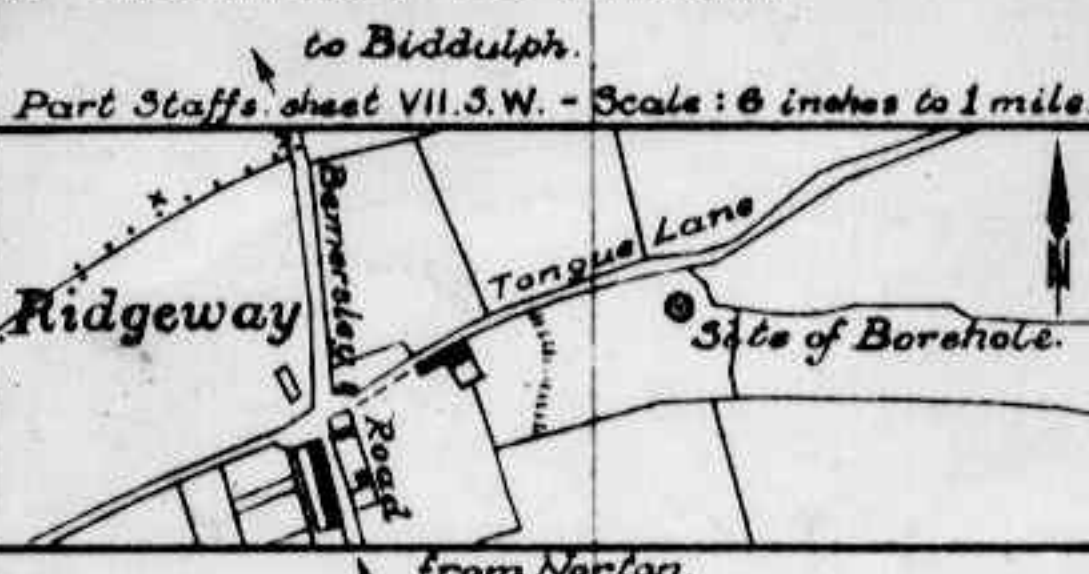
Sulphur  
2.8%

Scale:-1" = One Foot.



# Ridgeway Borehole.

- SCALE : 40 FEET TO 1 INCH. -

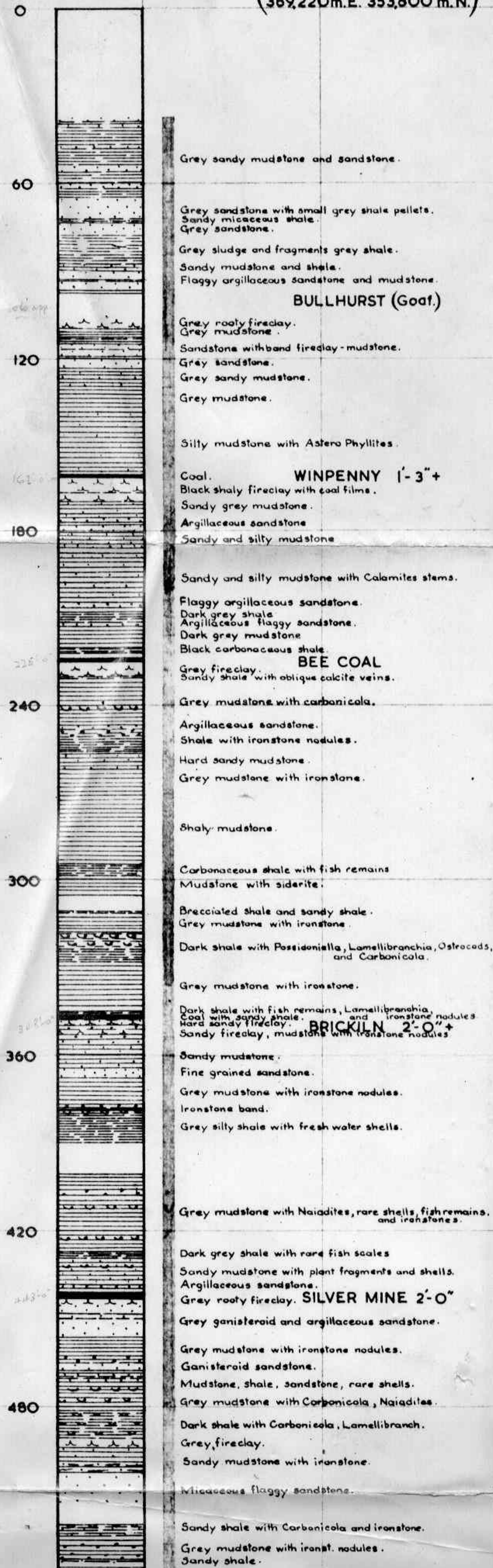


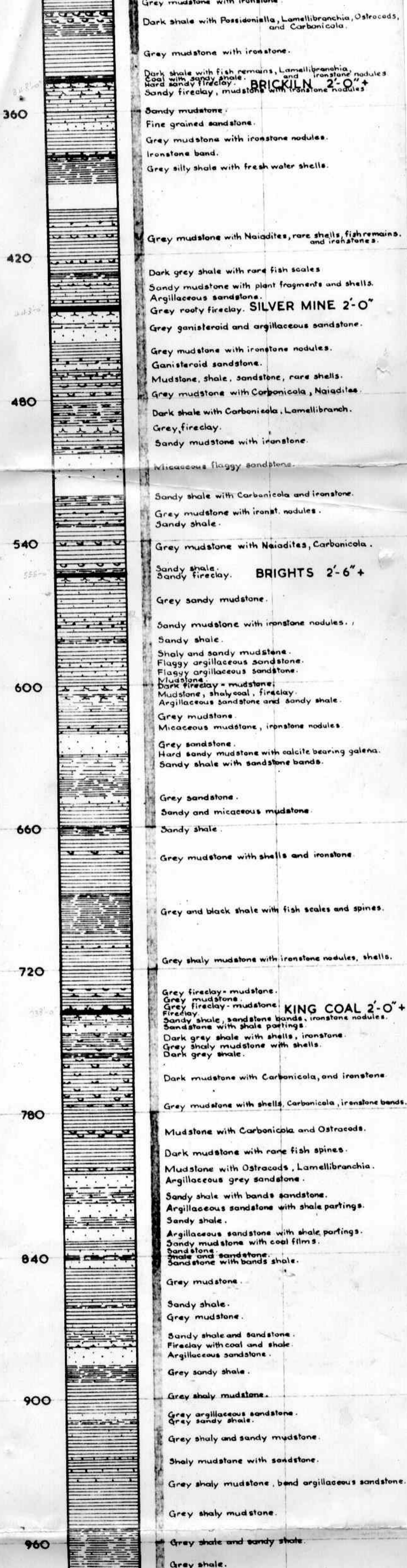
Sections cored  
Shown thus

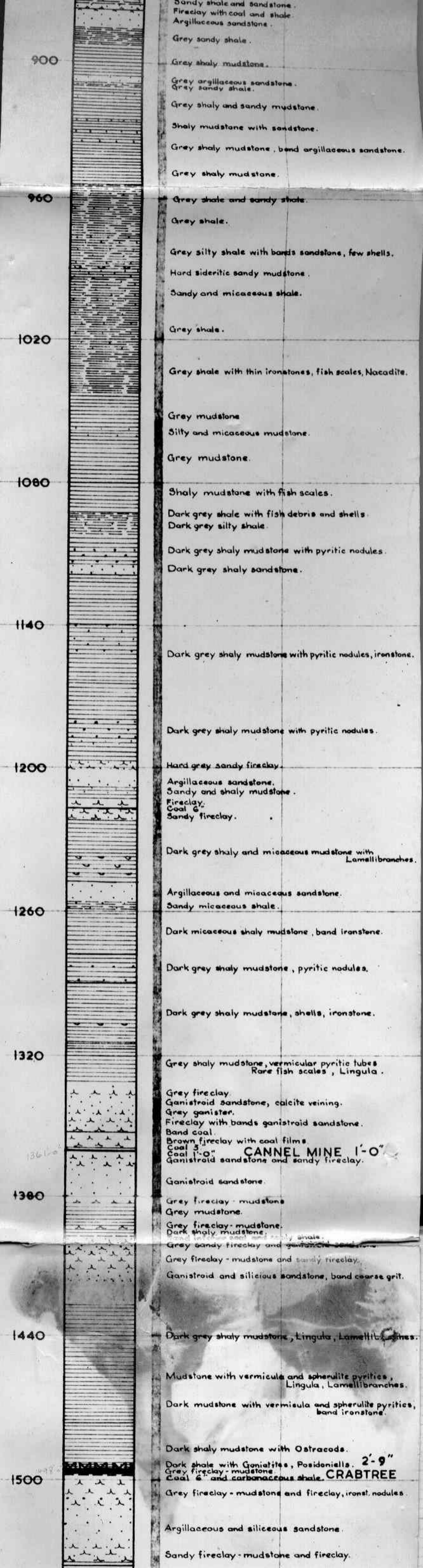
Feet

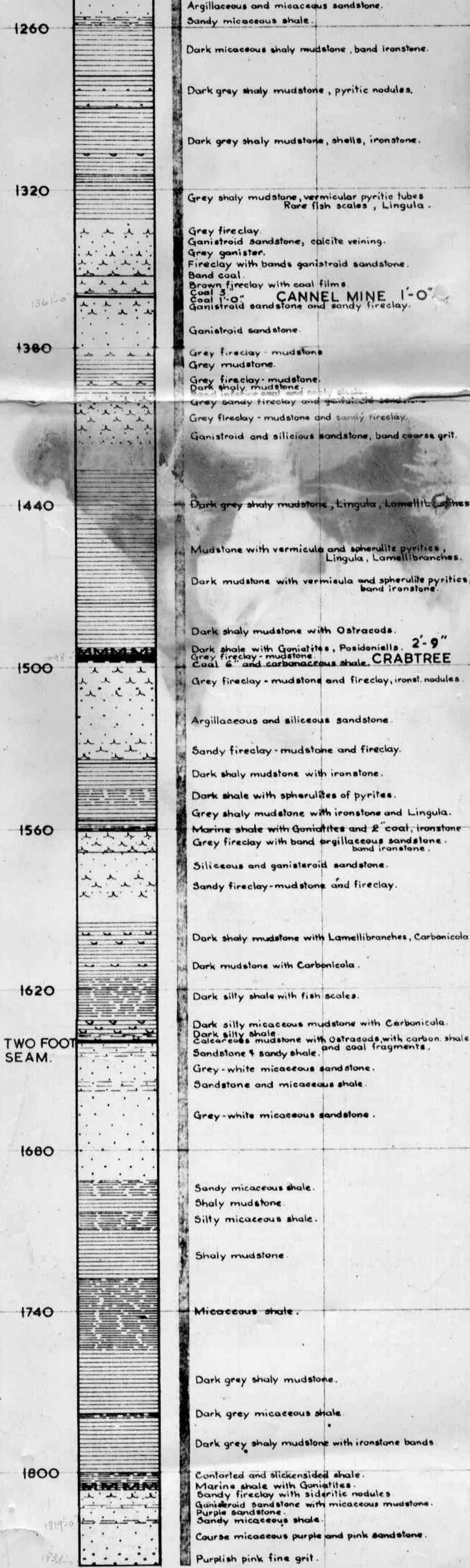
Surface = 600.3' A.Q.D.

(National Grid Co-ordinates.)  
389,220m.E. 353,800 m.N.)









IDENTIFICATION BY B. J. TAYLOR ESQ.,  
H.M. GEOLOGICAL SURVEY.

Boring commenced Dec. 3rd. 1951 Finished Mar. 24th 1952  
Borehole cement plugged April 2nd. 1952.

Coal recoveries very poor.  
Seam thicknesses where shown are estimated.

# CHATTERLEY-WHITFIELD COLLIERIES LTD

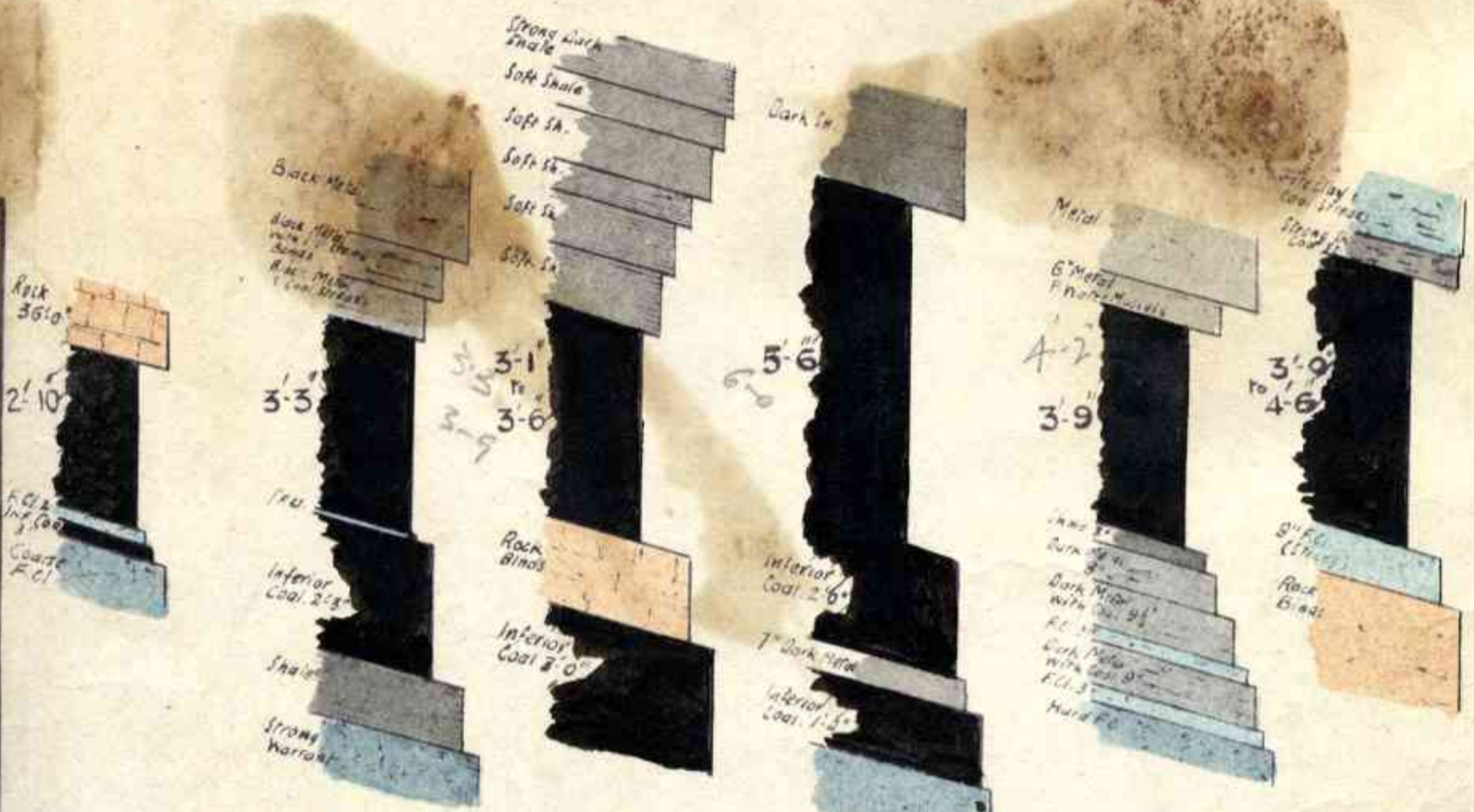
# F.R.S. REPORTS.

Date Sampled	Remarks	Coke		ASH FUSION Temp.		Cal. Val.	Sulphur	ASH	Fixed Carbon	Volatiles	Moisture	Seams
		Caking Index	Type	O.A.	R.A.							
29/1/47						3660	0.75	4.4	61.2	30.9	5.2	Moss
5/3/35						3820	0.91	2.1	57.0	56.5	4.4	Little Row
29/1/45	Sup Report	2	2	450	210	3260	2.28	6.2	54.8	35.7	3.8	Ragman
28/7/43						4110	0.78	2.0	59.4	35.1	3.5	Old Whitfield
3/1/36	Sup Report		16	340	1200	3580	0.65	4.1	56.7	35.0	4.2	Bellinger
13/1/49	Sup Report			310	1310	3330	0.68	2.8	55.6	35.4	6.2	Bellinger Harbors
17/3/47	Sup Report			400	1280	3350	1.73	3.9	54.9	37.1	4.1	Ten Feet
	F.R.S. Book only					3720	1.74	2.3	57.5	36.3	5.9	Bewing Alley
1/8/34	Sup Report			300	1360	4150	0.76	1.6	58.0	36.7	3.7	Holly Lane
26/10/39	Sup Report			390	1360	3930	1.32	3.5	57.1	36.5	2.9	Hard Mine
24/1/35	Sup Report			270	1220	4260	1.01	2.5	56.9	37.8	2.8	Flatts
15/11/29	Sup Report			370	1190	3960	1.35	2.6	56.8	35.1	3.1	Bambury
	F.R.S. Book only					4810	0.74	1.9	64.9	32.7	1.5	Cockshead
15/10/34	Sup Report			400	1235	3860	3.02	4.4	56.3	35.7	2.6	Bullhurst
15/10/34	Sup Report						0.85	5.3	48.7	47.6	2.4	Bullhurst Cannel
19/11/39	Sup Report			360	1290	4160	1.02	2.2	58.2	36.5	3.1	Winperny
							1.15	3.3	59.4	36.2	2.4	Brickkilln
15/11/31	Sup Report					3690	1.12	4.2	56.4	37.8	3.6	Diamond
1/1/34	Sup Report			400	1230	3560	2.22	6.8	54.7	36.5	2.0	Bright's
5/5/31	Sup Report			375	1210	4080	2.4	4.0	56.6	37.2	2.2	King

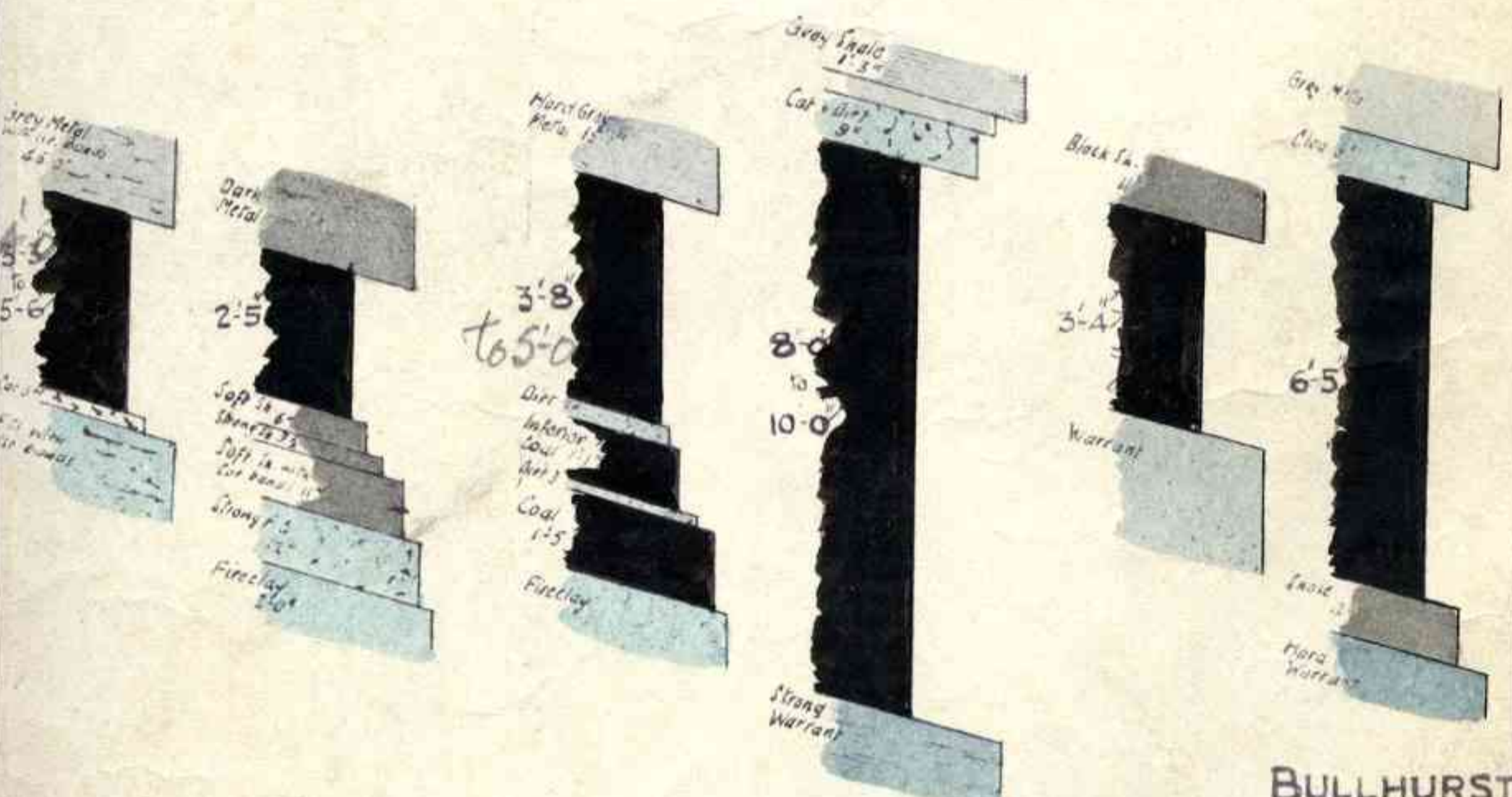
# WHITFIELD COLLIERY.

## SECTION OF MINES

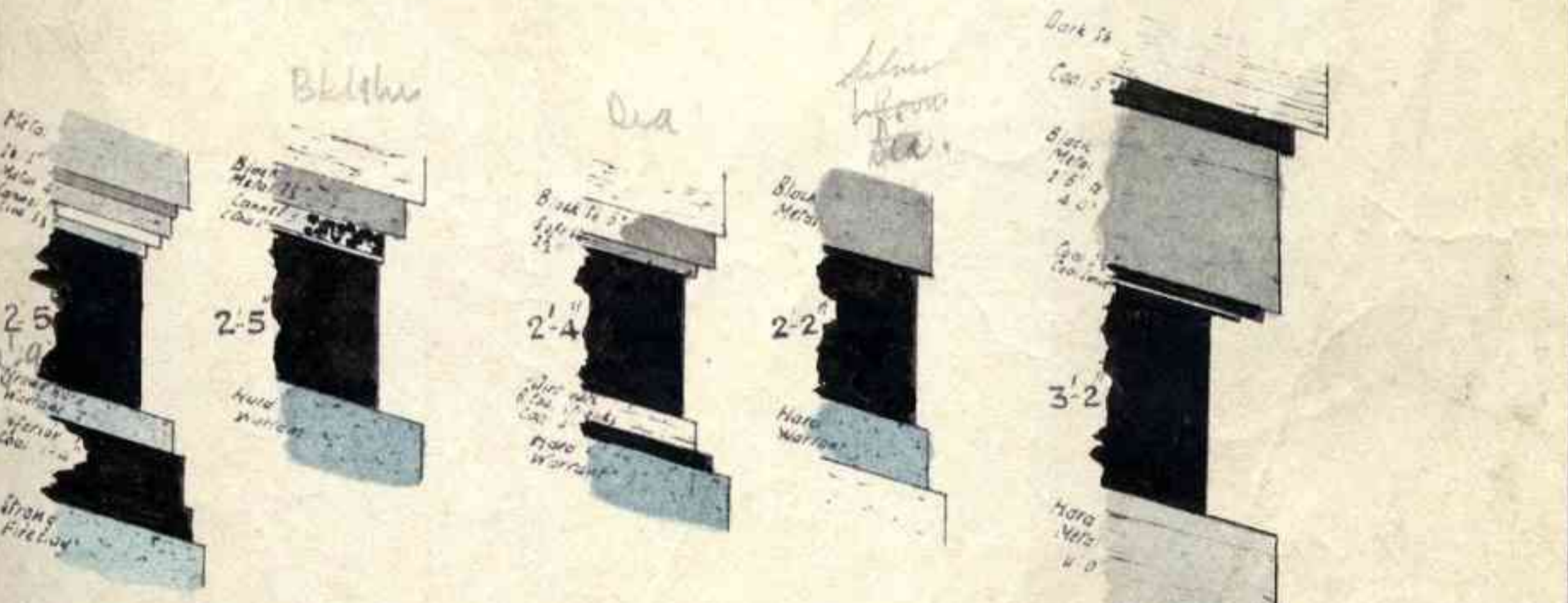
Yes	
Little Row	0
Old Whitfield	19
Bellringer	70
Ten Feet	115
Bowling Alley	144
Holly Lane	169
Hard Mine	201
Flatts	293
Bambury	341
Cockshead	398
Whitehurst	435
Bullhurst	505
Winpenny	523
N°1	543
N°2	586
N°3	618
Brights	662
King	722



LITTLE ROW OLD WHITFIELD BELLRINGER. TEN FEET. BOWLING ALLEY. LANE. HOLLY



HARD MINE. FLATTS. BAMBURY. COCKSHEAD. WHITEHURST. BULLHURST



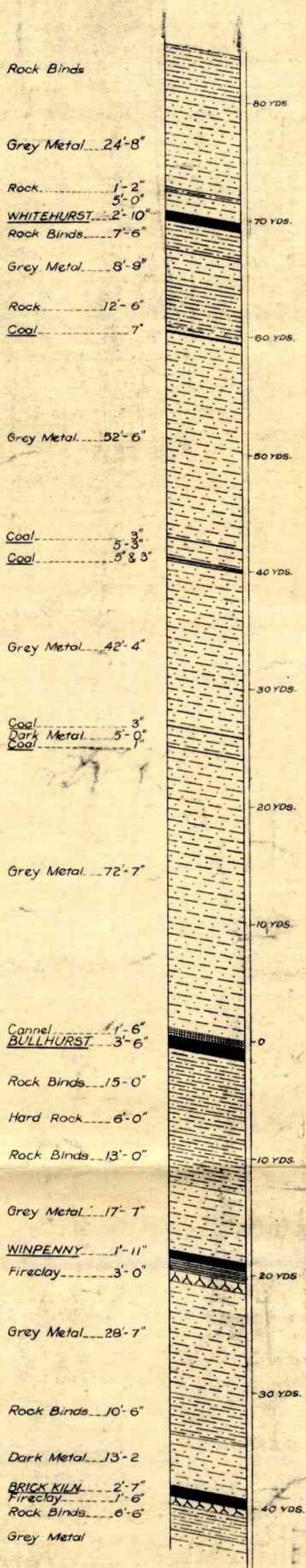
WINPENNY N°1 N°2 N°3 BRIGHTS.

4 Chains to One Inch.

1/4" = ONE FOOT. SECTION OF SEAMS.

SECTION OF STRATA ABOVE  
AND BELOW BULLHURST SEAM

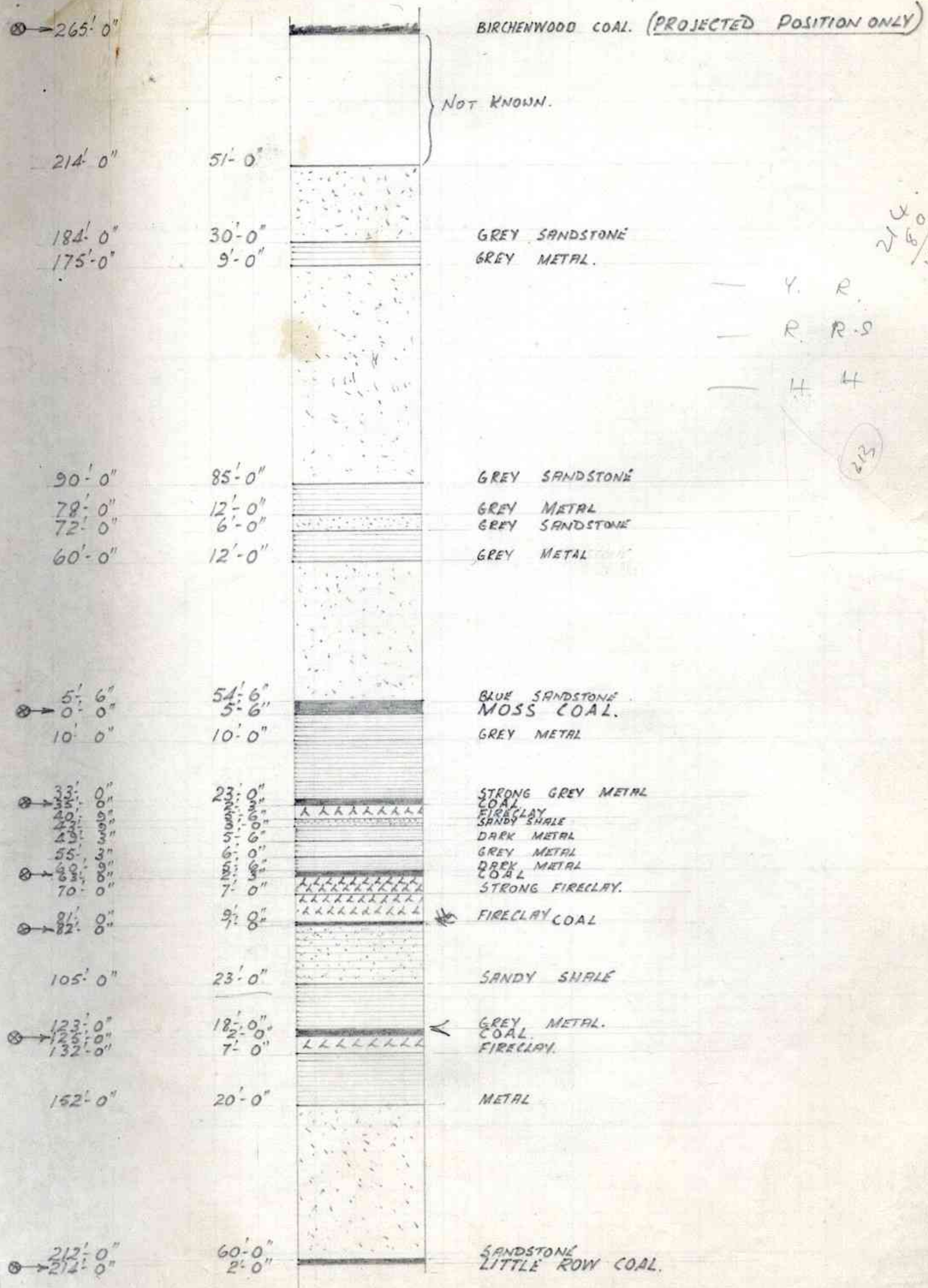
Scale: 33 Ft to 1 Inch



SECTION OF STRATA IMMEDIATELY ABOVE AND BELOW MOSS SEAM.

Scale: 50 feet to an inch.

DISTANCE ABOVE OR BELOW MOSS COAL. THICKNESS OF STRATA.



214  
80  
134

NOTES. PROJECTED POSITION OF TWIST COAL IS 565'-0" ABOVE THE MOSS COAL.  
 ⊗ → INDICATES HORIZON AT WHICH COAL CAN BE EXPECTED.



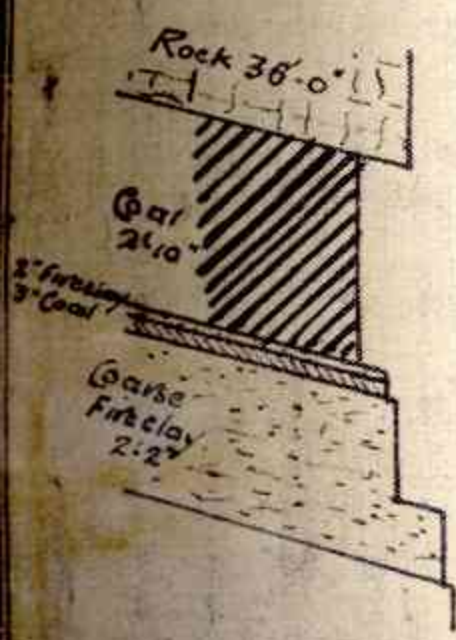
# CHATTERLEY-WHITFIELD COLLIERIES LTD.

Scale:  $\frac{1}{4}$ " = One Foot.

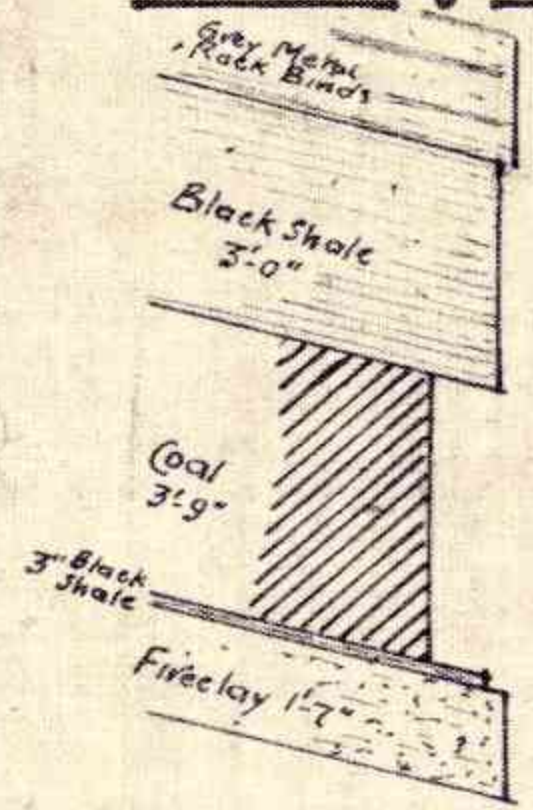
Feb. 1930.

## SECTIONS OF SEAMS.

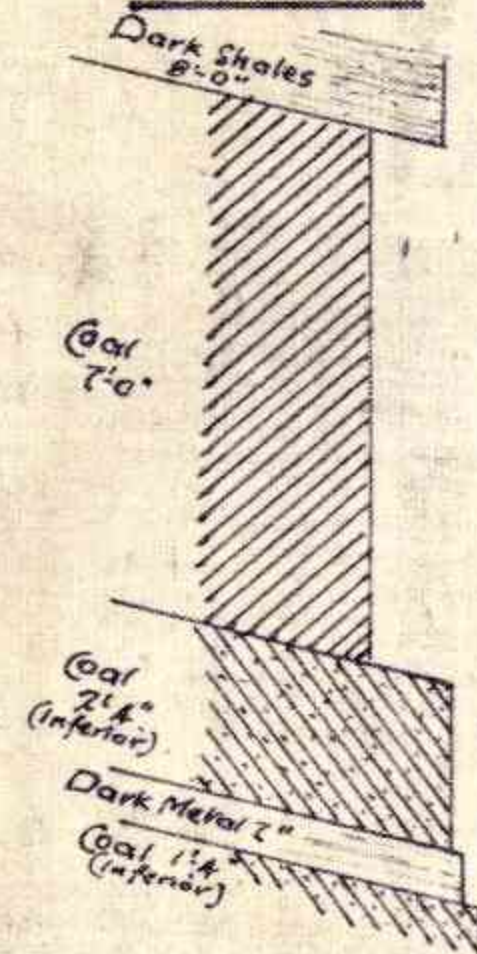
Little Row.



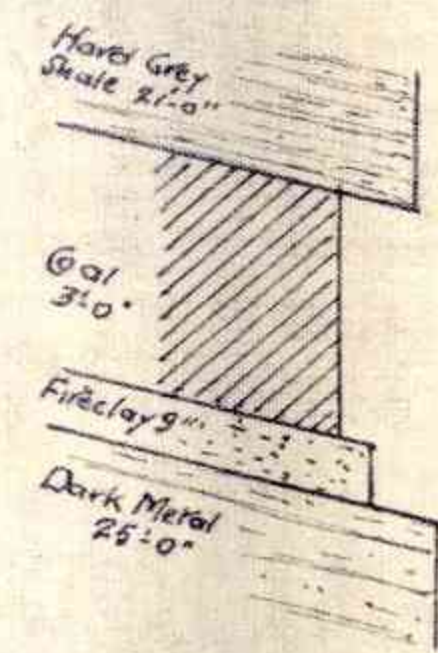
Old Whitfield



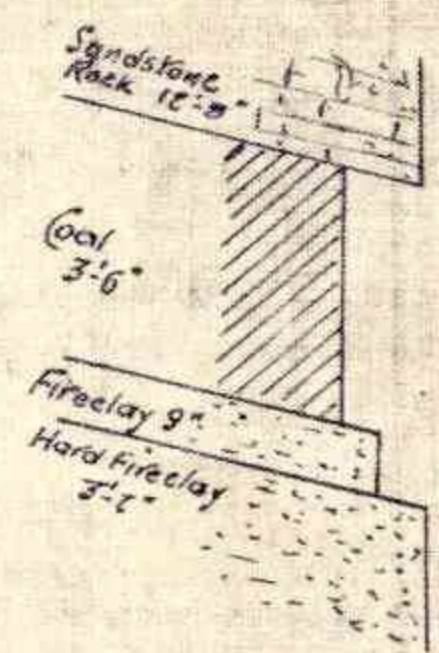
Ten Feet.



Bowling Alley.



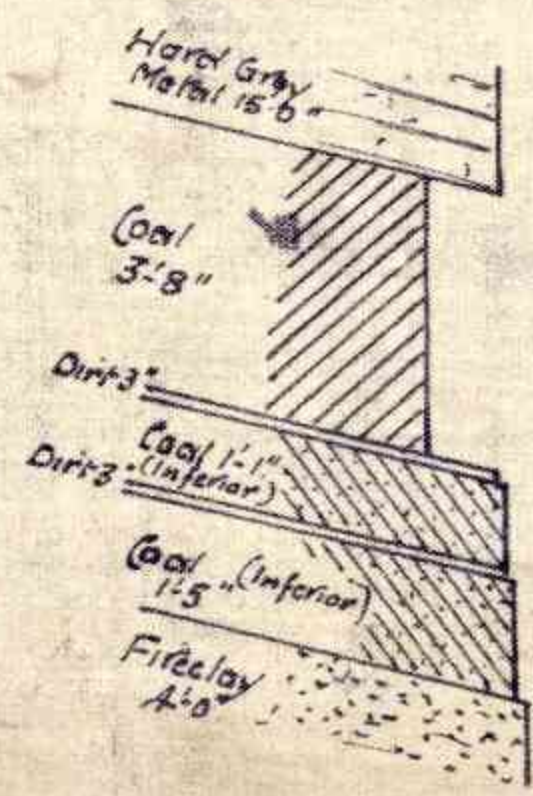
Holly Lane.



Hard Mine.



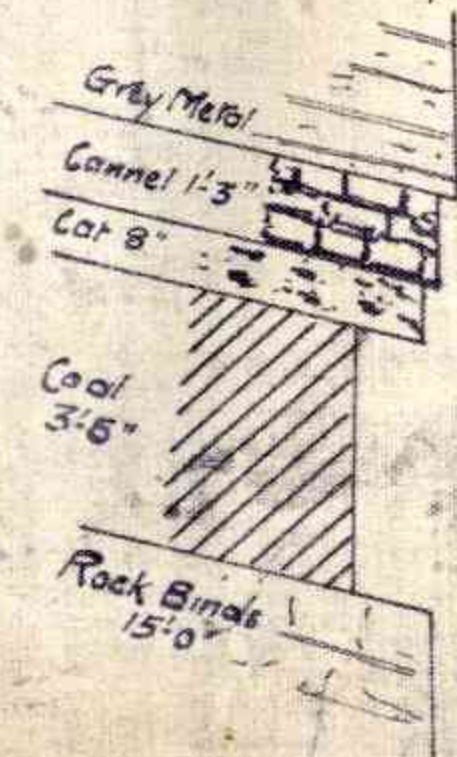
Bambury.



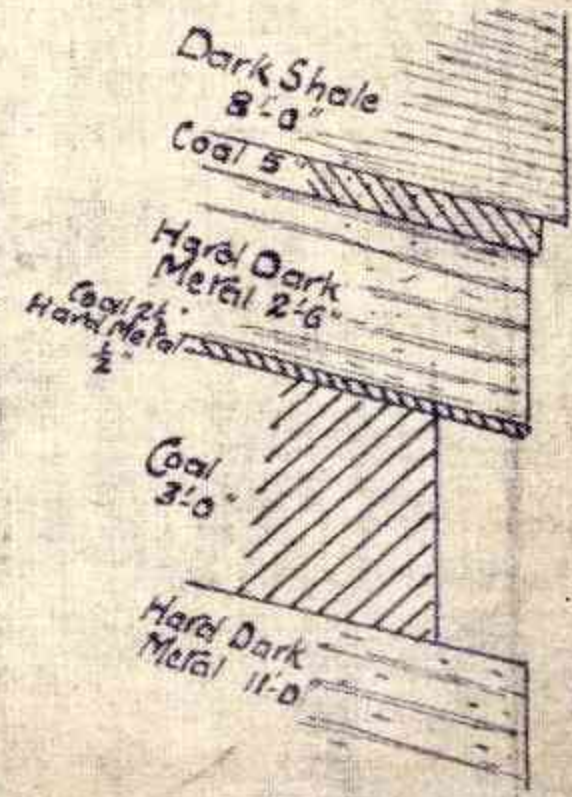
Cockshead.



Bullhurst.



Bright.



BLACK METAL

COAL ----- 2'-4"

HARD WARRANT ----- 1'-0"

SILVER MINE

140 YDS WEST OF HESKETH SHAFT

GREY METAL

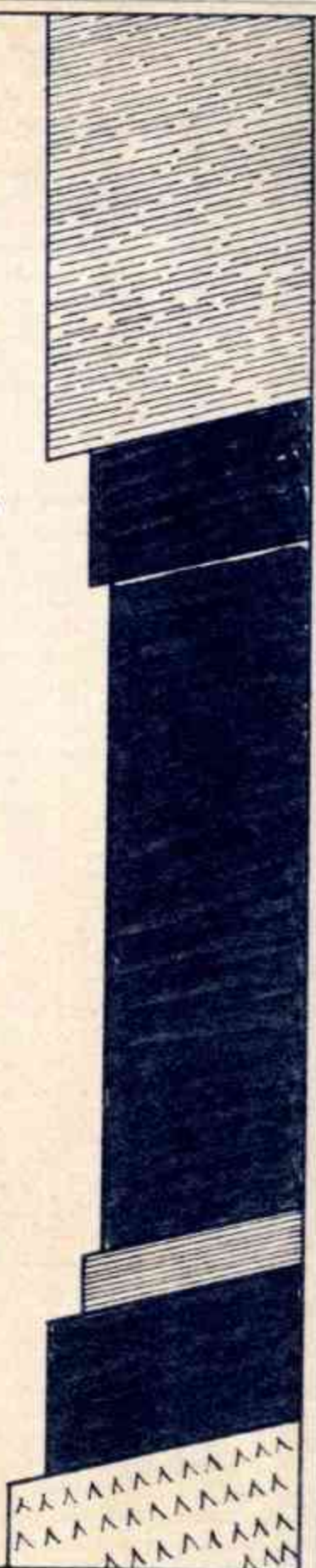
TOP COAL ----- 1'-0"

COAL ----- 5'-3"

SHALE ----- 5"

COAL ----- 1'-2"

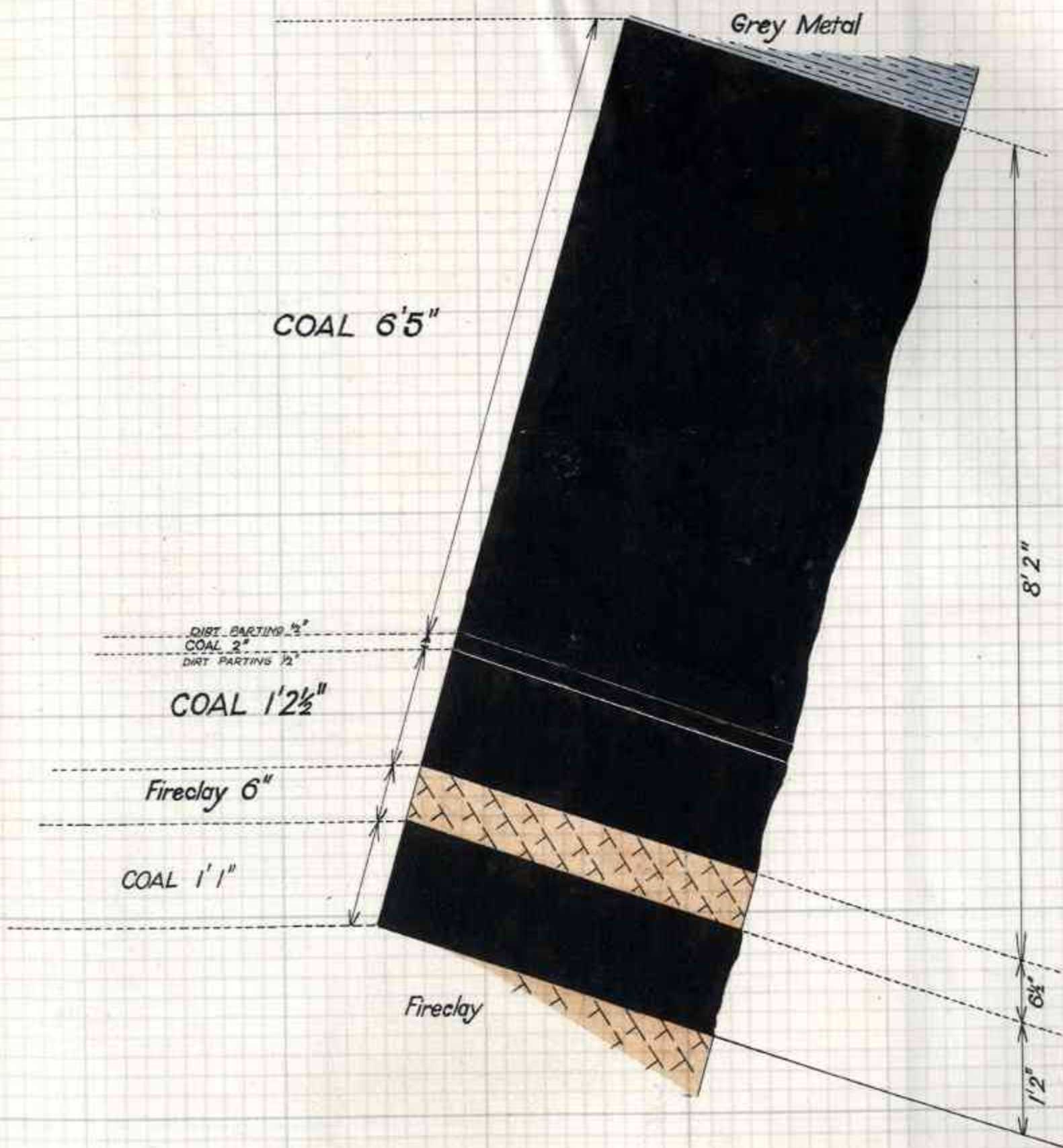
FIRECLAY ----- 1'-3"



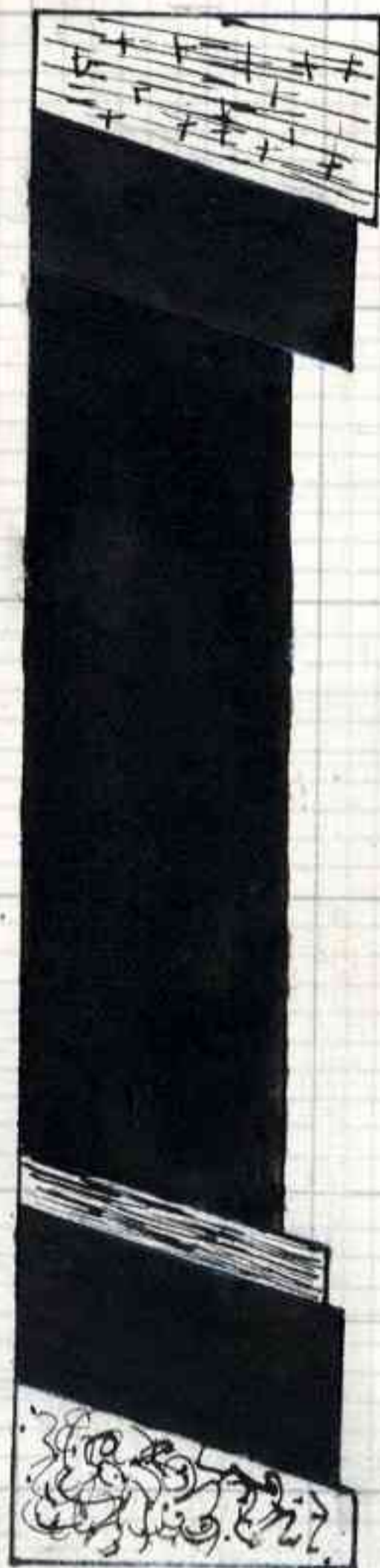
TENFEET

1550 YDS WEST OF HESKETH SHAFT

Section of Tenfeet Coal  
Main Crut from Nesketh.



Scale: 1/2 inch to 1 foot



Grey Metal. 2'-0"

Top Coal. 1'-0"

Coal. 6'-0"

Shale 0"-5"

Coal. 1'-2 $\frac{1}{2}$ "

Fireclay 1'-3"

TEN FEET      N<sup>o</sup> 6. S. (H. LANE DIP)

SCALE:  $\frac{1}{2}$ " = ONE FOOT.

# TEN FEET SEAM

<u>N° 6 SOUTH</u>		Thickness	
		Ft	Ins
	Grey Metal.....	2	0
	Top Coal.....	1	0
	COAL.....	6	0
	Shale.....		5
	Coal.....	1	2½
	Fireclay		
Dip of Face 11°			

<u>N° 5 NORTH. (Hard Mute Dip)</u>		Thickness	
		Ft	Ins
	Metal		
	Shale.....		5
	Shale Metal.....		10
	Metal.....		1
	Metal.....		1
	COAL.....	5	3
	Shale.....		3
	Coal.....		6
Fireclay			
Dip of Face 14°			

BLACK SHALE -----	11'
COAL -----	7 1/2"
COAL & PYRITES -----	1 1/2"
BRIGHT COAL -----	3 1/2"
COAL & PYRITES -----	3"

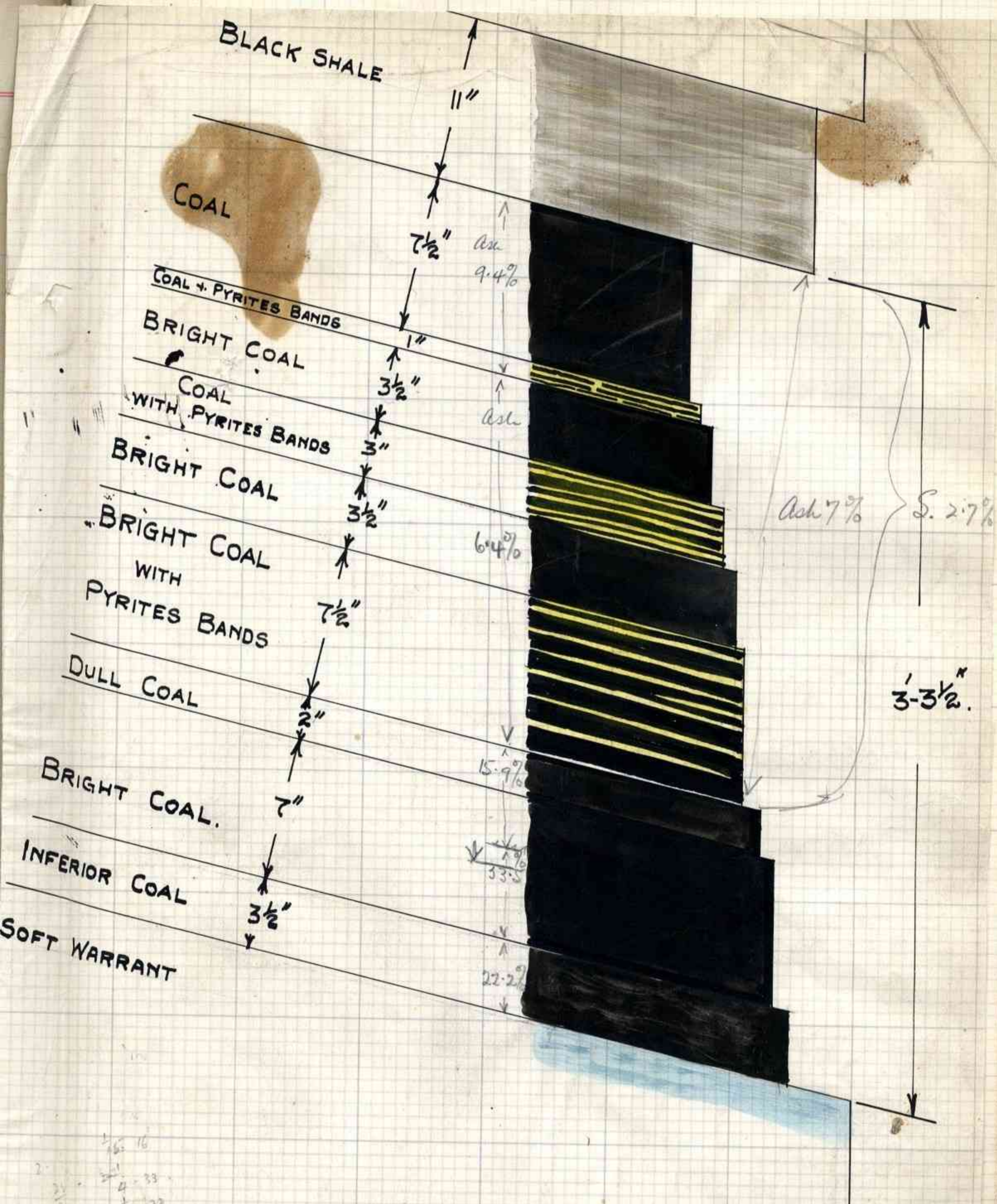
BRIGHT COAL -----	7"
INFERIOR COAL -----	3 1/2"

SOFT WARRANT

WHITEHURST

730 YDS WEST OF HESKETH SHAFT





## WHITEHURST COAL.

Section taken in Heskeths Back Cut.

17-11-1939.

Scale:- 2" = One Foot.

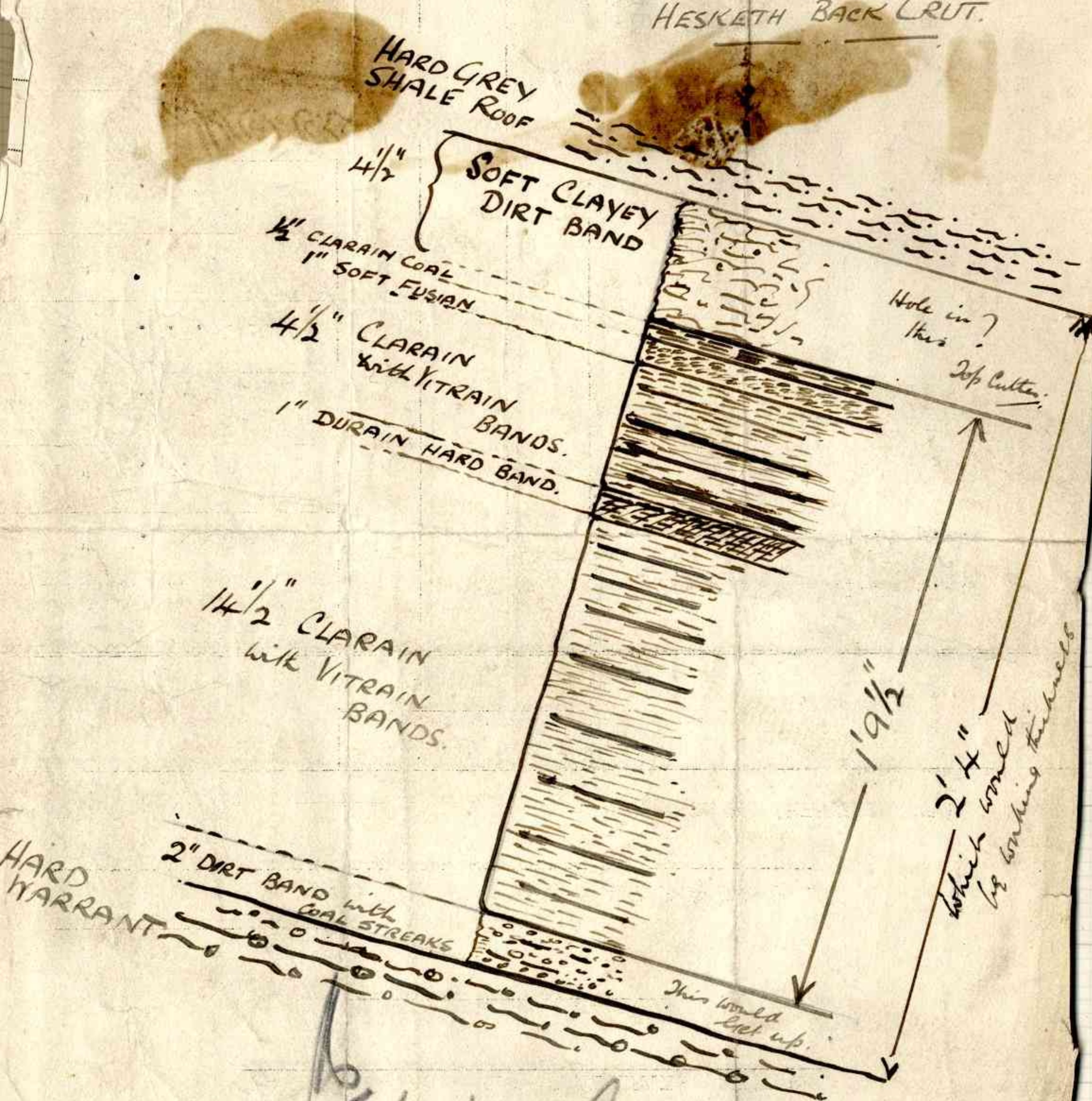
Whitfield Colliers.



SECTION

WINPENNY COAL.

HESKETH BACK CRUT.



To Mr Crofts

METAL

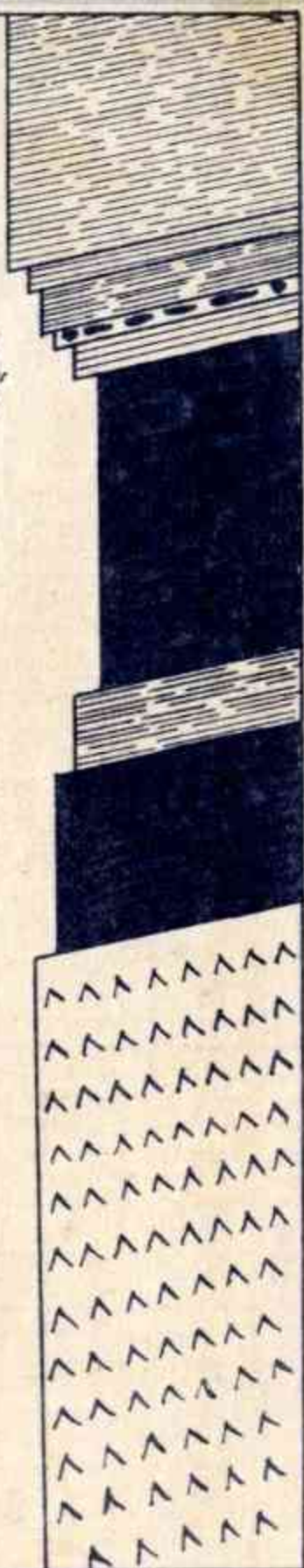
SHALE	-----	2"
METAL	-----	4"
CANNEL	-----	1 1/2"
CLOD	-----	3 1/2"

COAL ----- 2' - 5"

STRONG HARD WARRANT\_ 7"

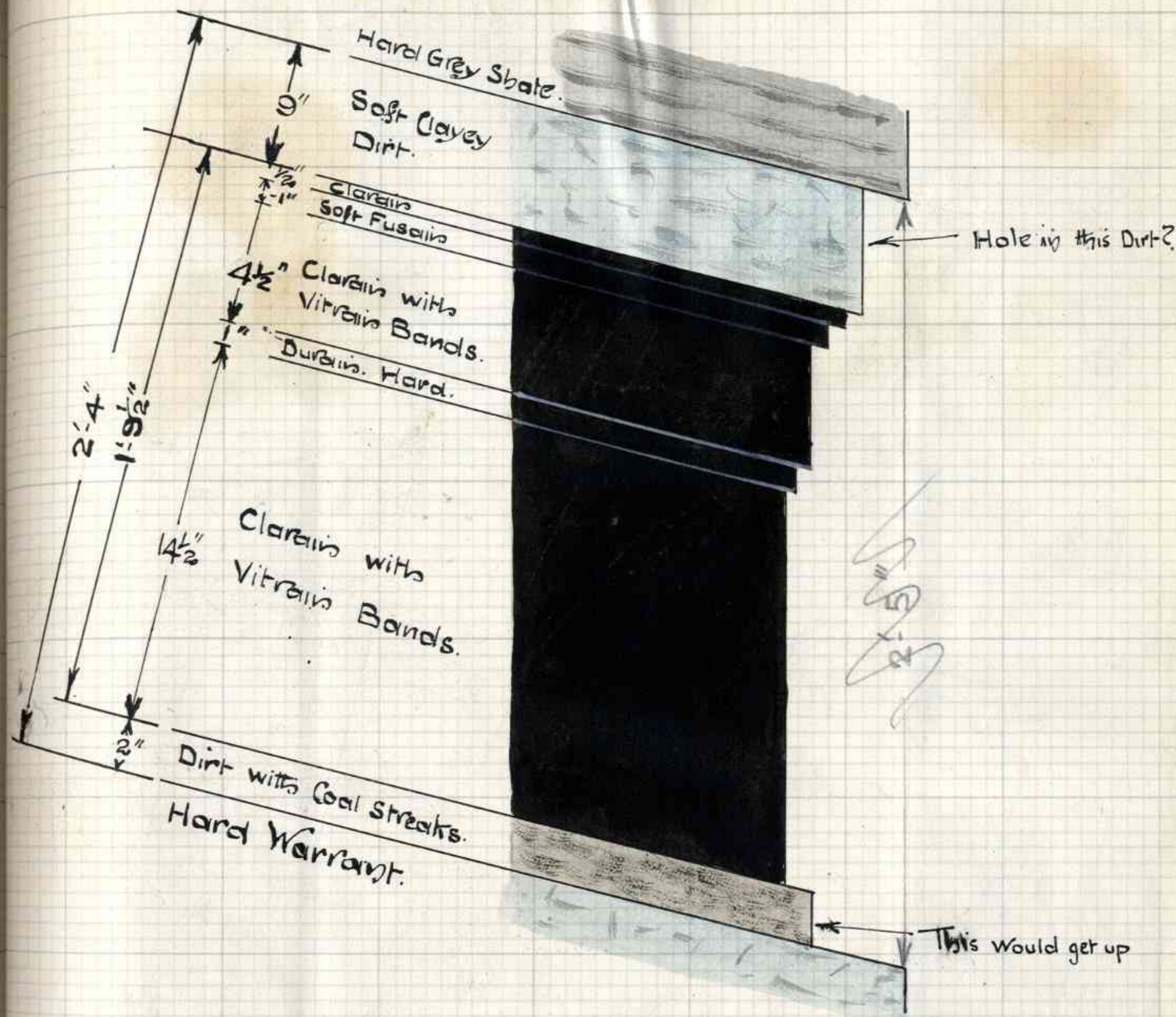
INFERIOR COAL ----- 1' - 4"

STRONG FIRECLAY



WINPENNY

900 YDS WEST OF HESKETH SHAFT



Wispenny Coal.

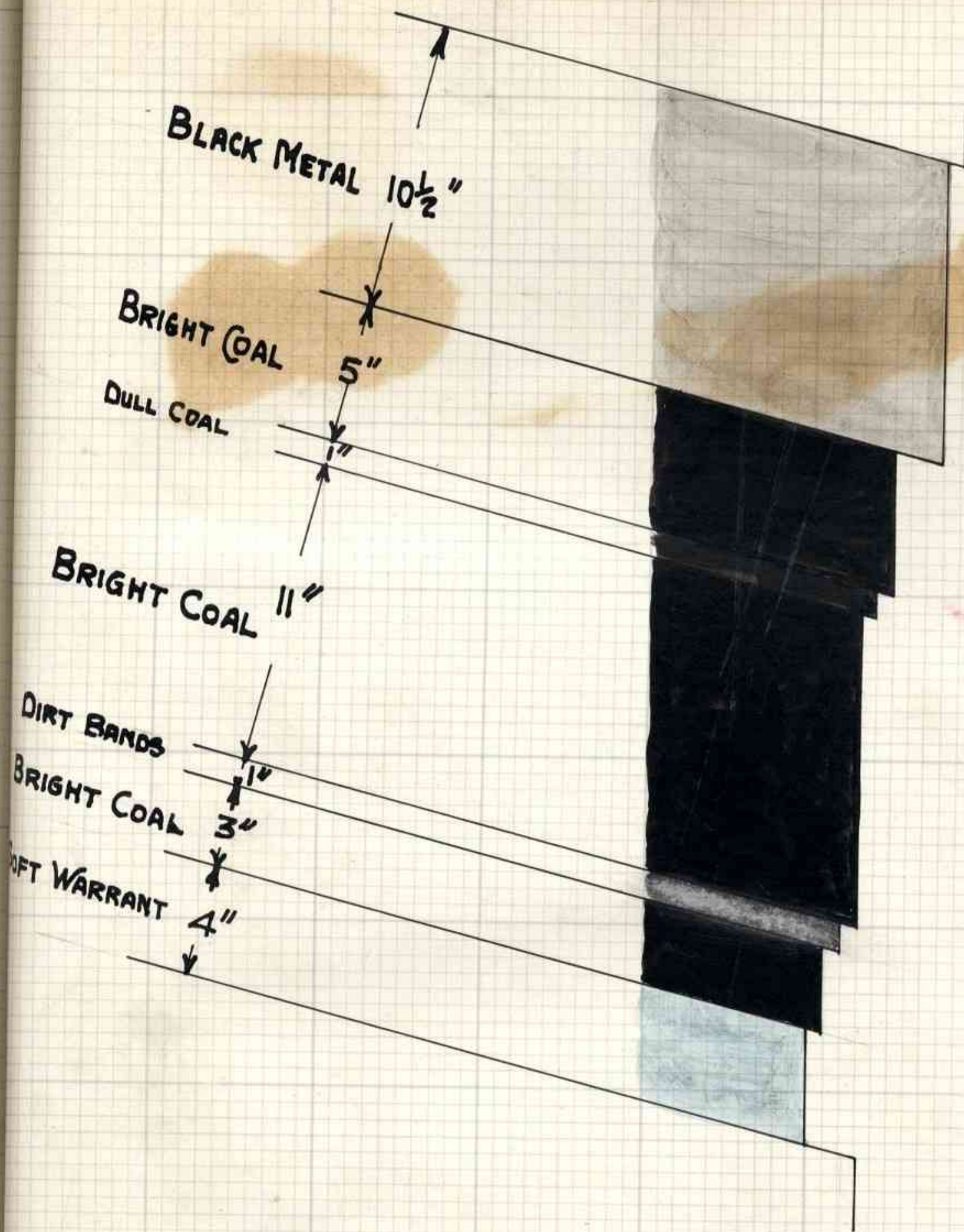
19 yds below Bullhaush

Section taken in Mesheth Back Cut.

(by T. Halpenny)

Scale: 2" = One Foot.

17/10/38



WINPENNY COAL.

19 Yds below Buttens

SECTION TAKEN IN THE RETURN CRUT FROM  
 THE BRIGHTS COAL TO THE PLATT PIT,

30/10/39.

SCALE:- 2" = ONE FOOT.

Stafford Coal & Iron Co.

Section of Yard Coal.

To floor of Moss Coal 73 Yards →

{ Sunk Aug. 1922  
16 - May 1925

To Surface 912 Yards →



Depth to Moss Coal. 2520 Feet.