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centre for
battlefield archaeology



www.gla.ac.uk/departments/battlefieldarchaeology/

history

SCOTLAND

archaeology • history • heritage

NEW SERIES
MY SCOTTISH
HISTORY HERO



Scotland and the Great War

*A fresh perspective
on the Battle of Loos*

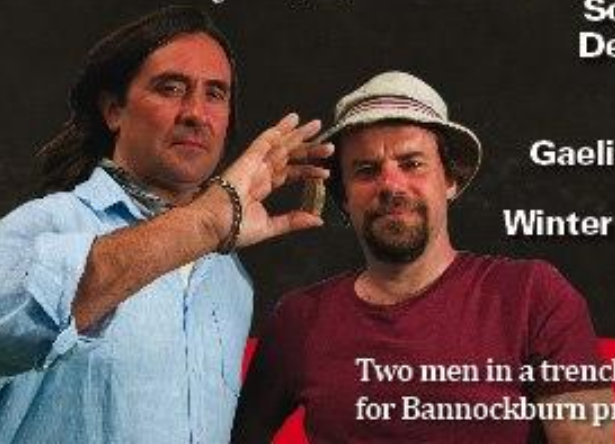
*The Highland Division
in Bedford, 1914*



**Scottish Communism in
Depression-era Australia**

**The life and work of
Gaelic poet Sorley Maclean**

**Winter reads: experts choose
their essential books**

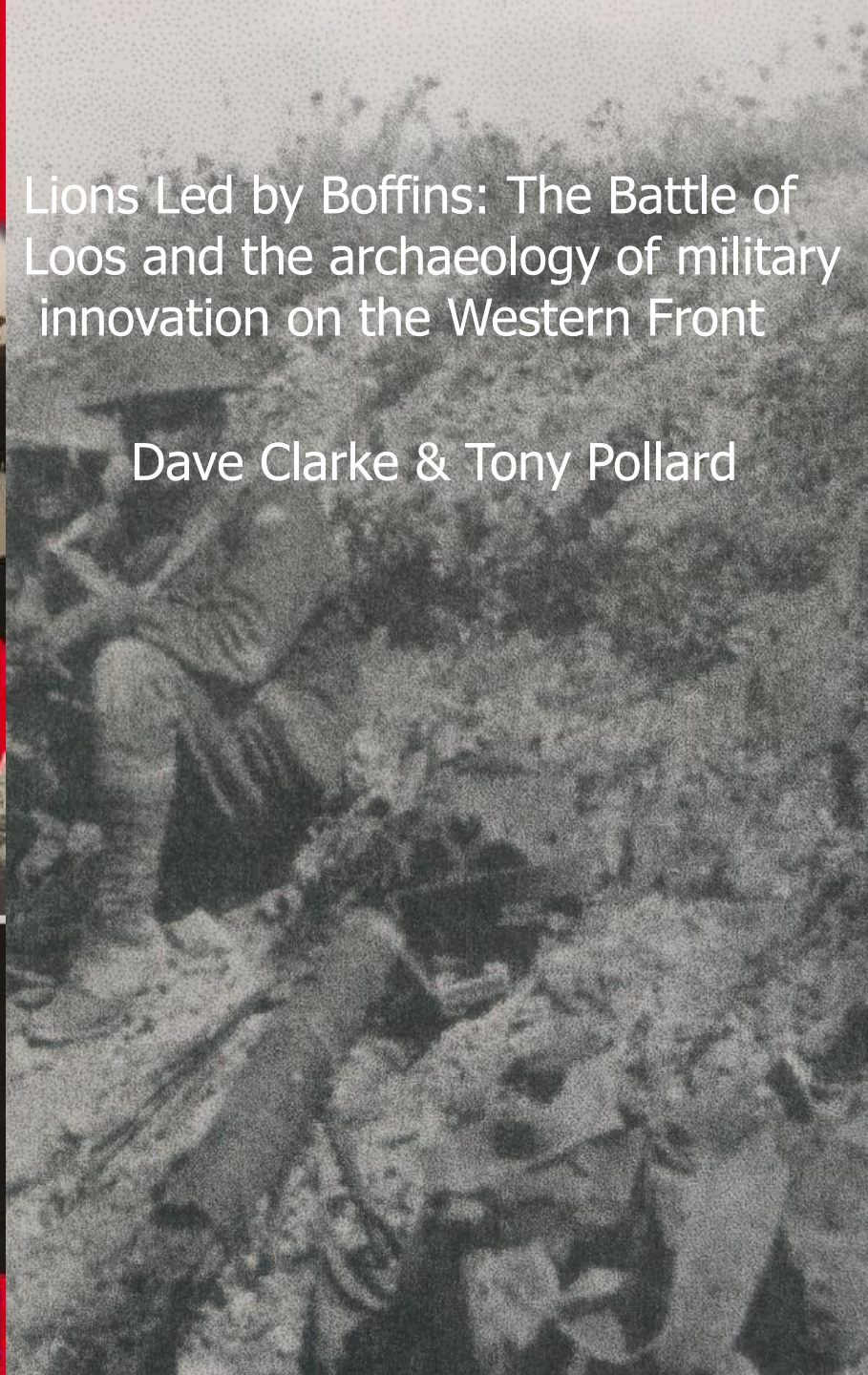


**Two men in a trench reunite
for Bannockburn project**



Lions Led by Boffins: The Battle of Loos and the archaeology of military innovation on the Western Front

Dave Clarke & Tony Pollard



Themes



- New perspectives on the Battlescape
- New perspectives on technology and tactics
- Conflict Resolution and Closure



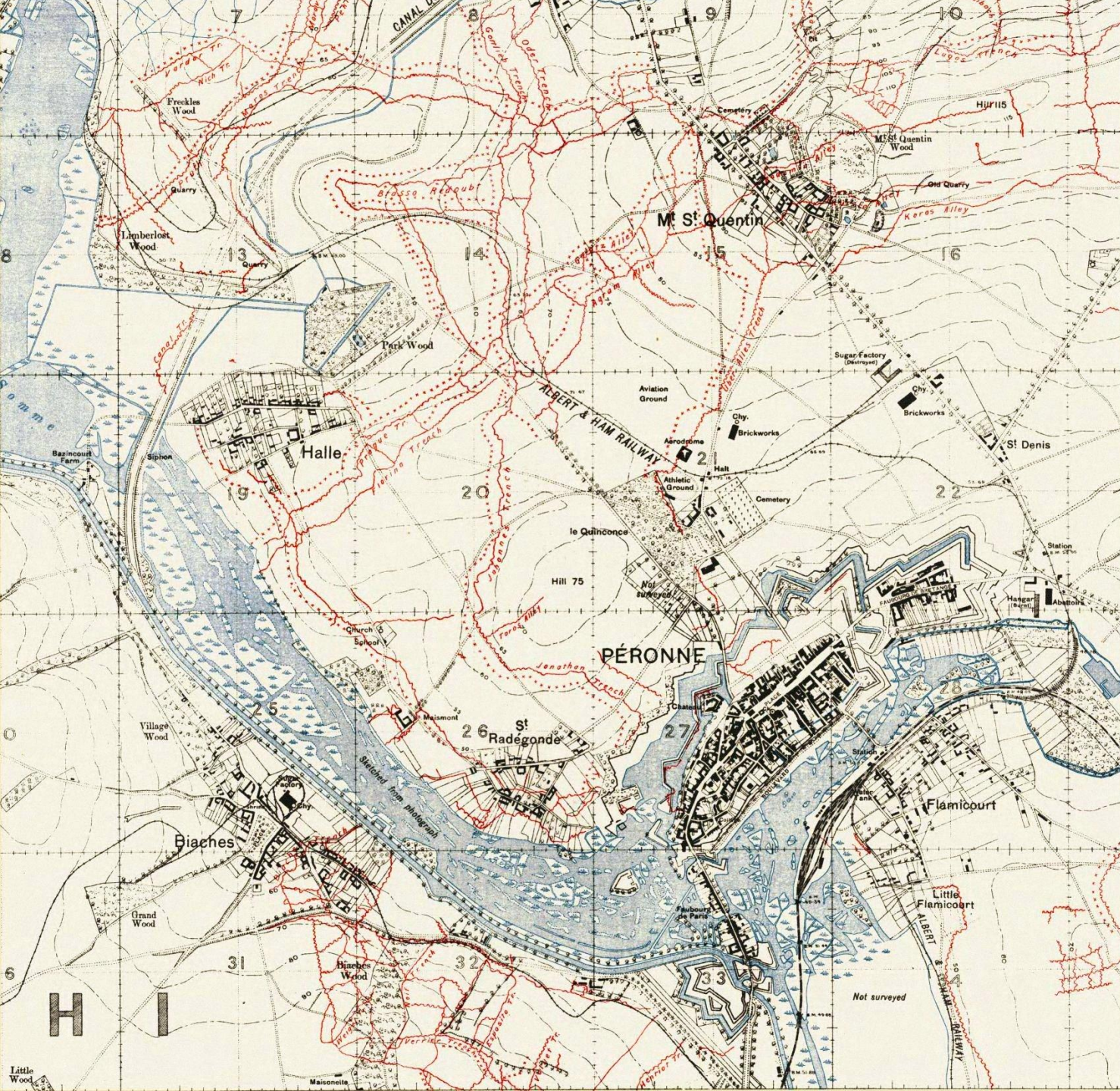
Harry Patch 1896-2009

New Perspectives on the Battlescape



Battle of Mont St Quentin
31 Aug – 3 September 1918

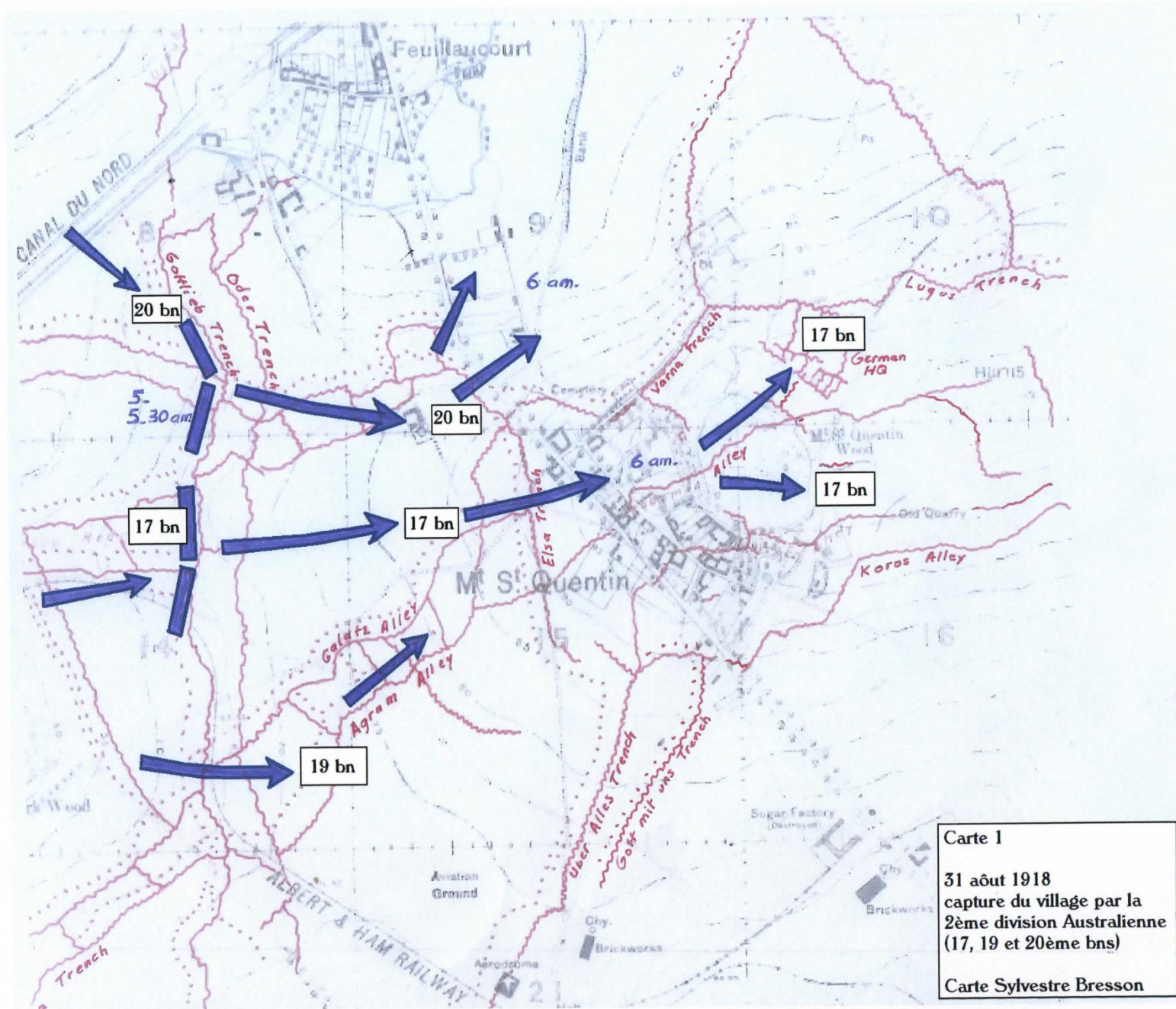




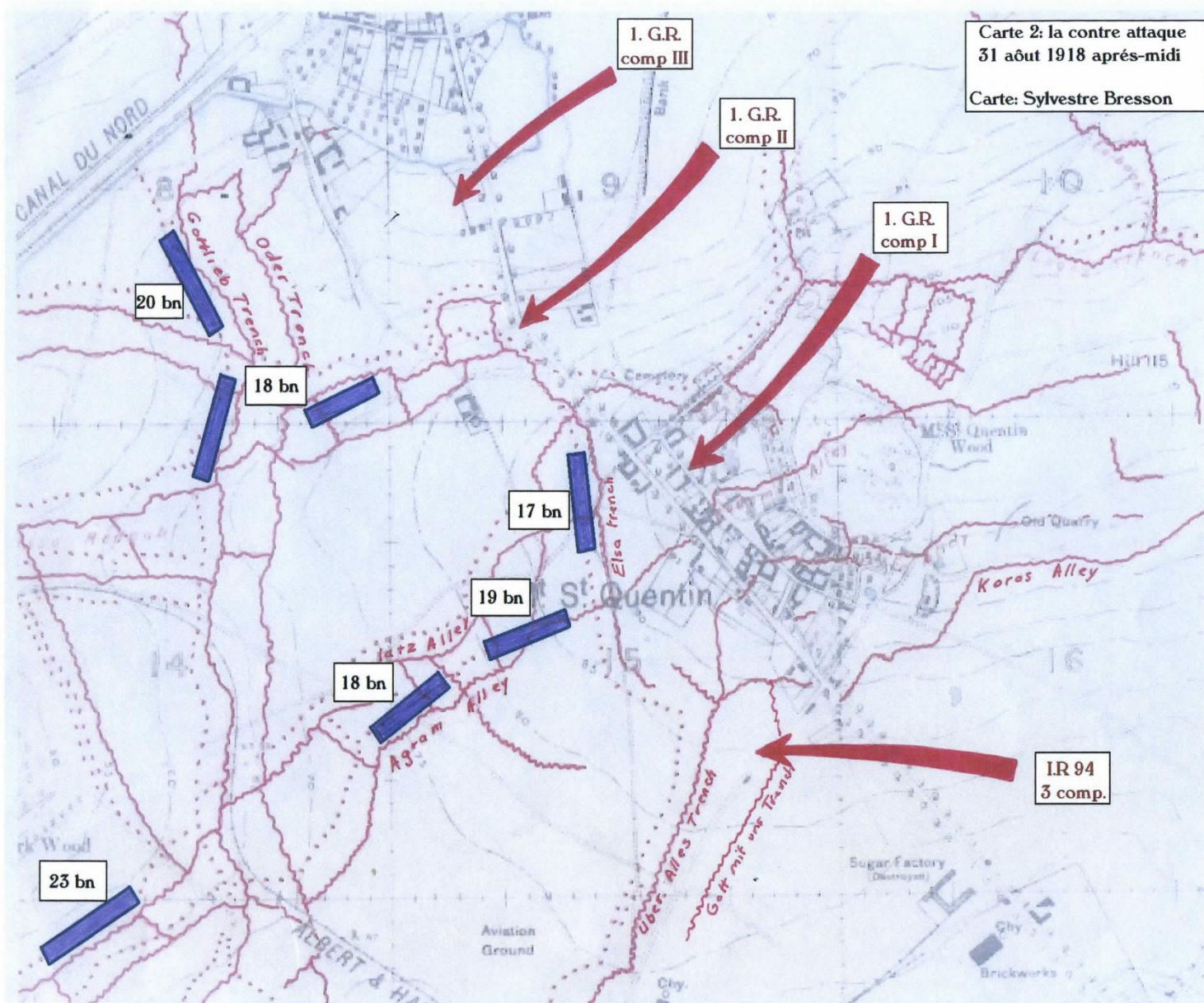
Nov 1916



General John Monash – Australian 2 Division
Cross Somme eve 30 August
5am 31 August storm hill



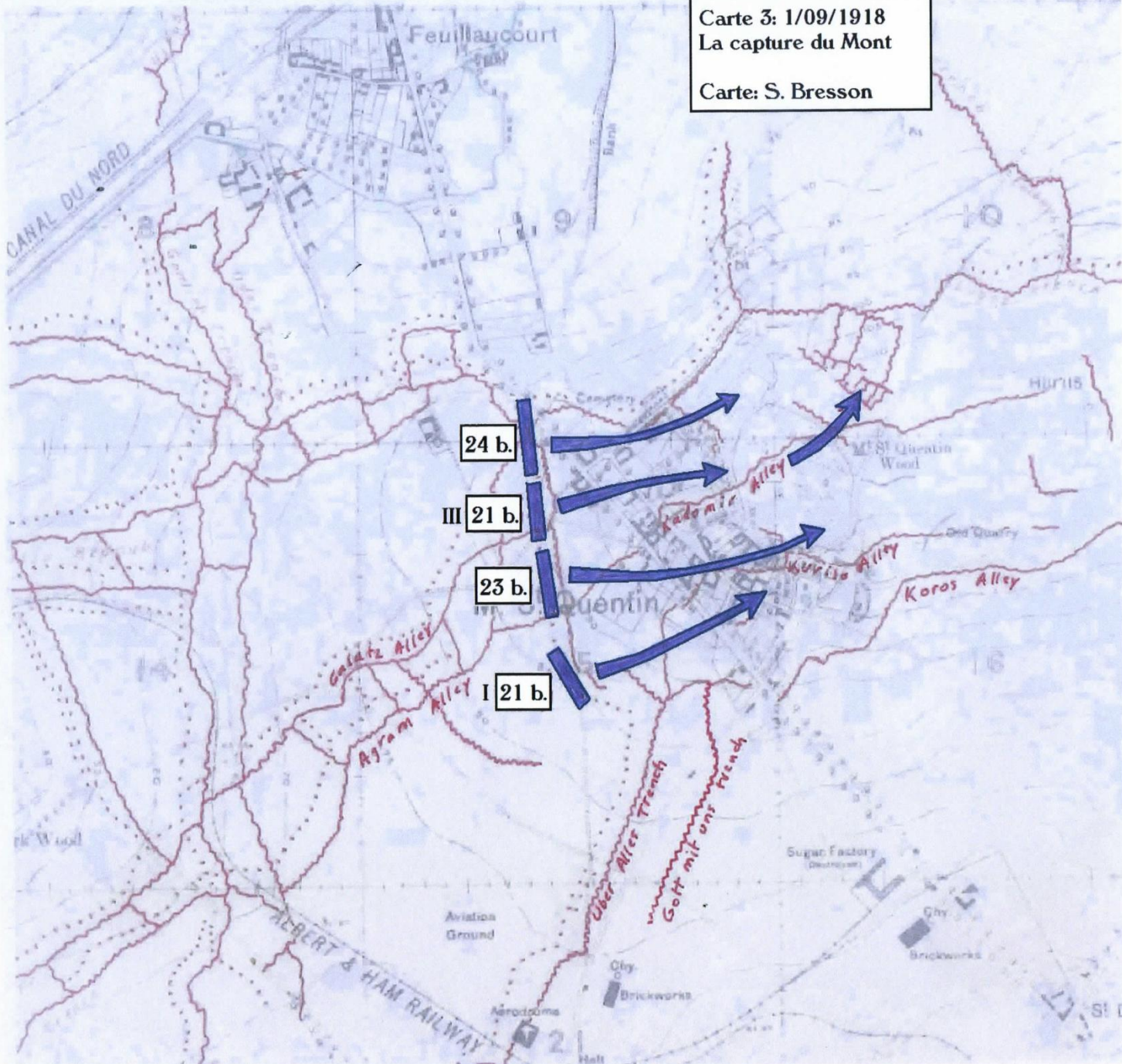
Carte 1
31 août 1918
capture du village par la
2ème division Australienne
(17, 19 et 20ème bns)
Carte Sylvestre Bresson



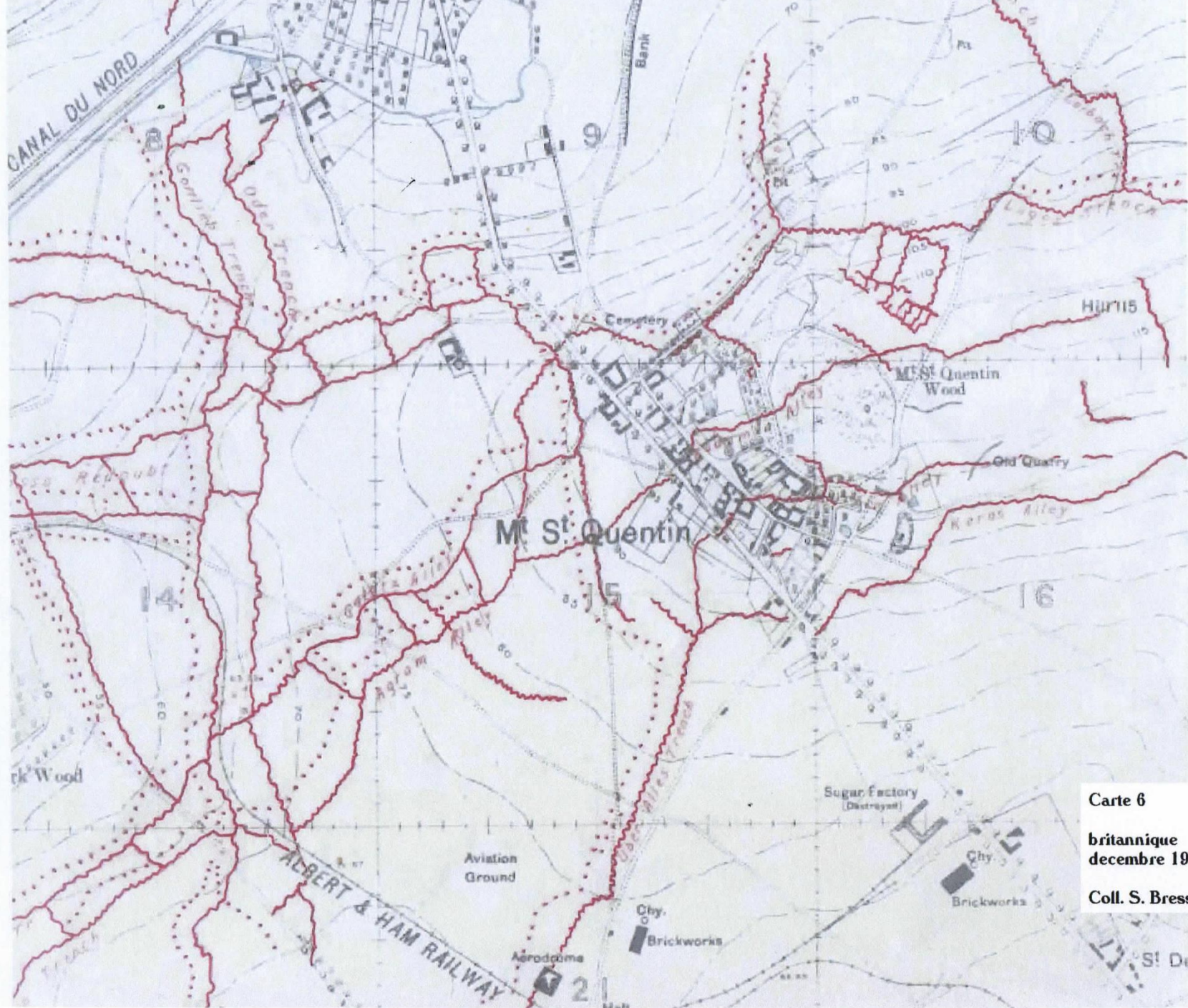
Carte 2: la contre attaque
31 août 1918 après-midi
Carte: Sylvestre Bresson

Carte 3: 1/09/1918
La capture du Mont

Carte: S. Bresson

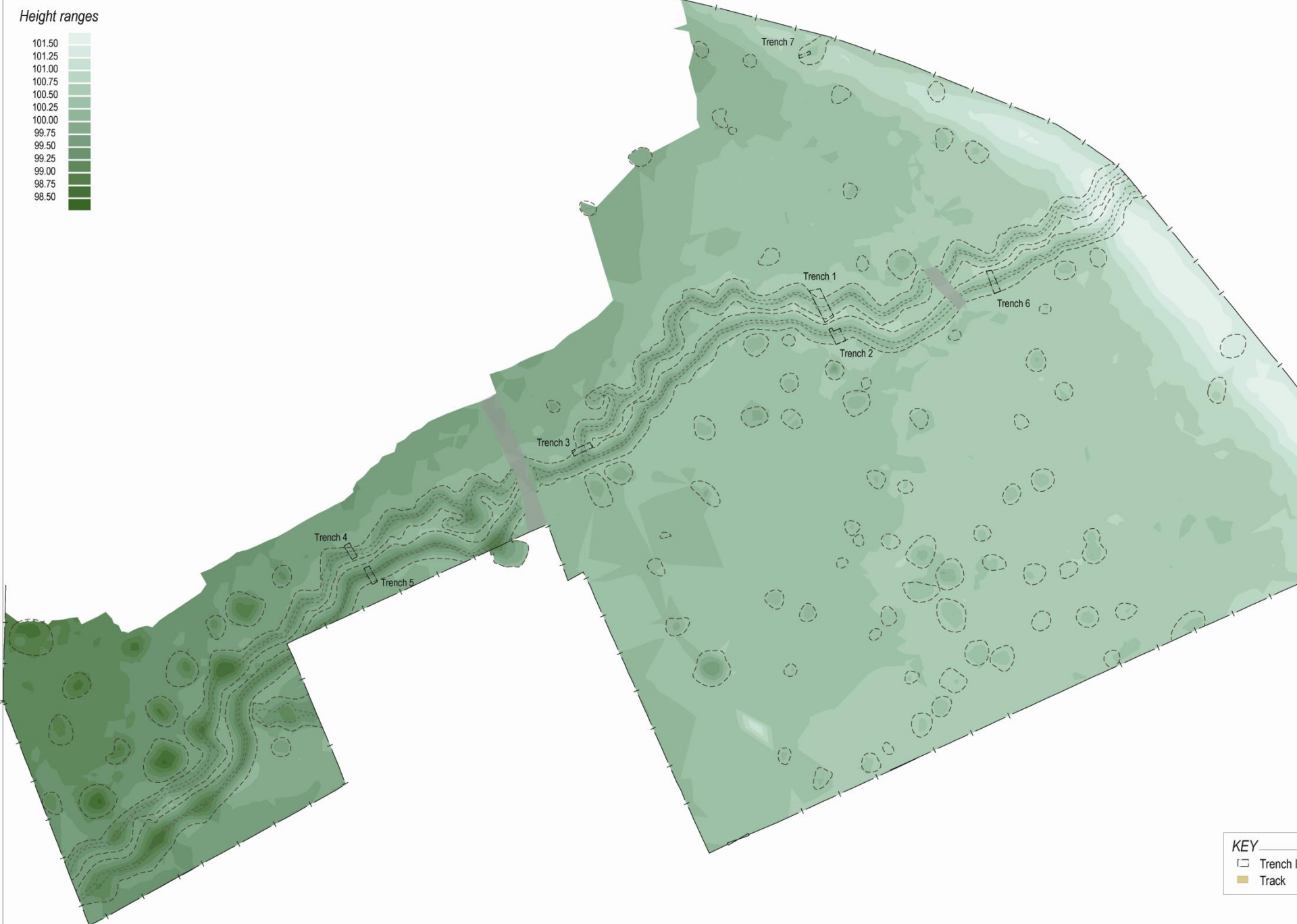
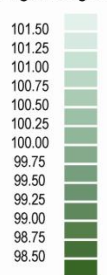






Carte 6
britannique
decembre 1916
Coll. S. Bresson

Height ranges



KEY

- Trench 1
- Track

Figure 2:
Terrain.







^
m0030
r



Approx
Direction
of North



Tactics and Technology

The Livens Flame Projector
Mametz, Somme





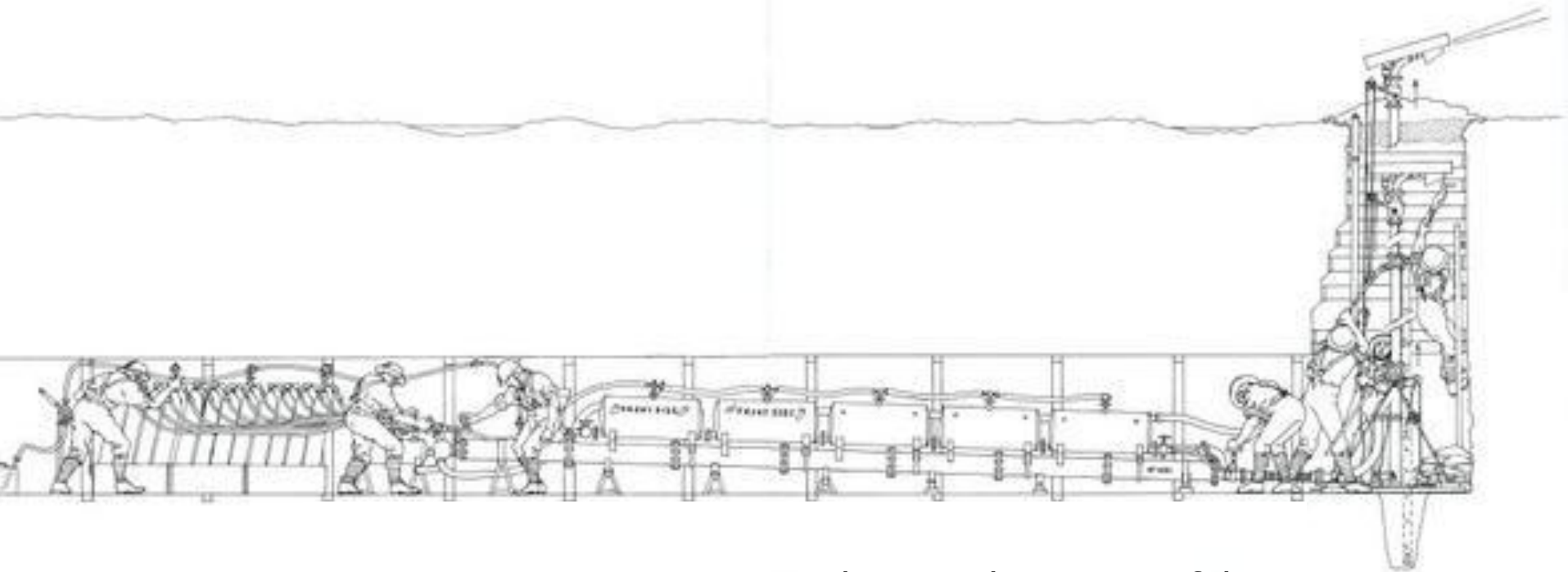
William Howard Livens DSO, MC
(1888-1964)

Z Company RE



56 feet (17 m) long, weight 2.5 tons
Carrying party of 300 men
14-inch (360 mm) diameter pipe
Piston-driven compressed gas was pushed into the long fuel chamber
Range 350 yards to 1,300 yards (later 1917 model)
3-4 bursts of 3-4 seconds

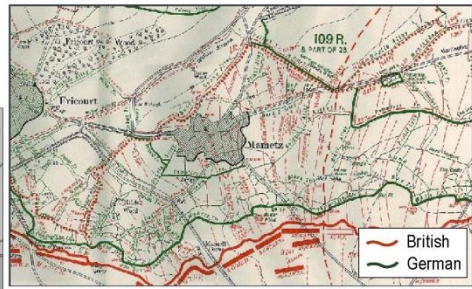
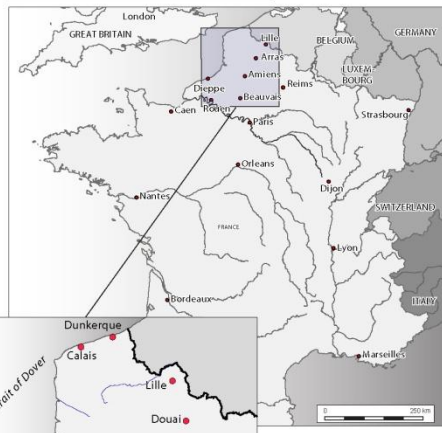




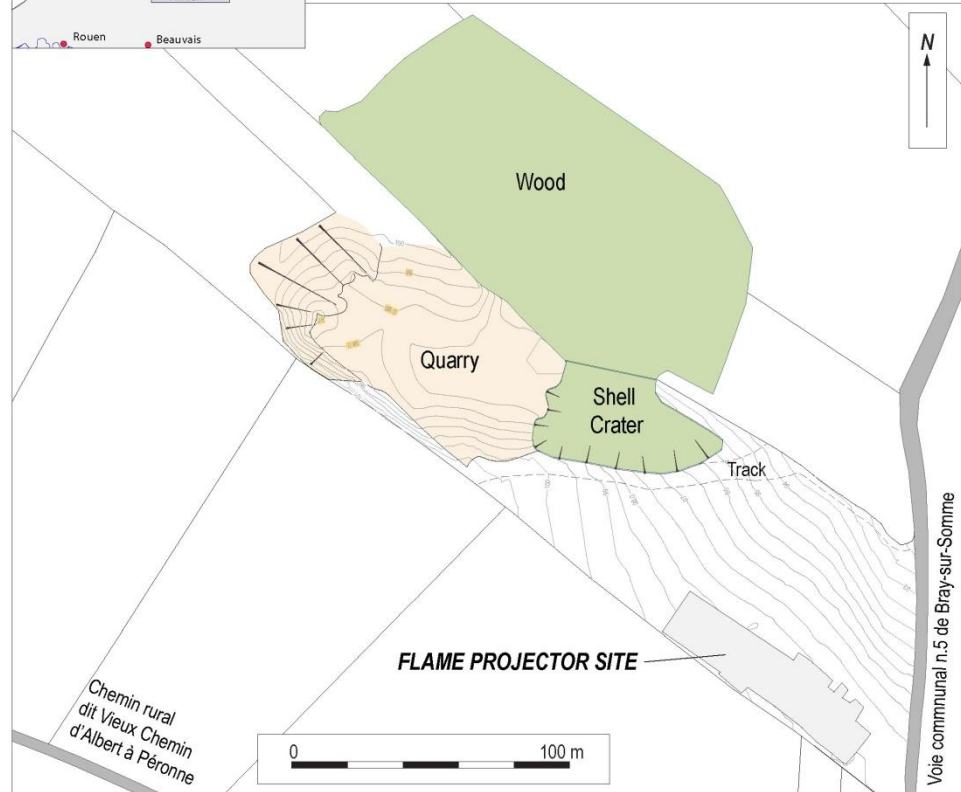
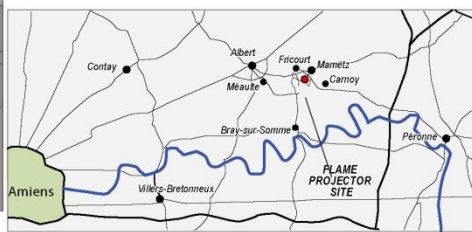
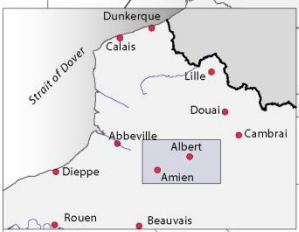
4 Projectors on Somme – 2 destroyed, 2 successful



**Project 12019
Flame Projector
Archaeological Evaluation**



30th June 1916 Map





WAR DIARY

or

INTELLIGENCE SUMMARY

(Erase heading not required.)

Sp. Secs.
Sp. Bde.
R.E.

Page 4.

Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II, and the Staff Manual respectively. Title Pages will be prepared in manuscript.

SPECIAL COLLECTIONS,
SPECIAL BRIGADE,
R. E.
No.
Date

Summary of Events and Information

Place	Date	Hour	Summary of Events and Information	
BRONFAY FARM near BRAY.	June 27th 1916.	10 a.m. to 8 p.m.	Sorting and loading one large Flamenwerfer. on to 3-3 ton lorries supplied by XV Corps. Complete supplies of Oil and Compressed Gas were also taken. At 7 p.m. the loading was virtually completed. About 8 p.m. the Convoy moved off, Lt. BANSALL and one Subsection proceeding with it. (The other Subsection of this Section was employed on fatigues at BRONFAY FARM, etc. throughout the period under review.)	
		L9a19.	9 p.m.	Met 10 G.S. wagons & transhipped stores to them.
		10 p.m.	Proceeded towards LUDGATE CIRCUS, via WATERLOO JUNCTION.	
		10 p.m.	Arrived behind LUDGATE CIRCUS - continuation of road proving un negotiable for transport unloaded there. Delay in bringing Infantry Carrying party 200 strong (DEVONS - 20th Inf. Brigade) from their rendezvous at Ludgate Circus.	
	June 28th 1916	2 a.m.	Long and heavily loaded carrying party of R.E. and Devons moving slowly through Communication Trenches collided with a party of Pioneers with Picks & Shovels in 71 Street. Heavy hostile bombardment of trenches occurred at this point. Parts of Flamenwerfer dropped & men took cover.	
		5.3 a.m.	Most important parts of Flamenwerfer collected & placed in Sap (Shallow Gallery) 114: this was done chiefly by the small R.E. party who worked exceedingly well.	

WAR DIARY
or
INTELLIGENCE SUMMARY

(Erase heading not required.)

Sp Secs
Sp Bde
R.F.

P.5.

ons regarding War Diaries and Intelligence
maries are contained in F. S. Regs., Part II.
the Staff Manual respectively. Title Pages
be prepared in manuscript.

SPECIAL SECTIONS,
SPECIAL BRIGADE,
R. E.

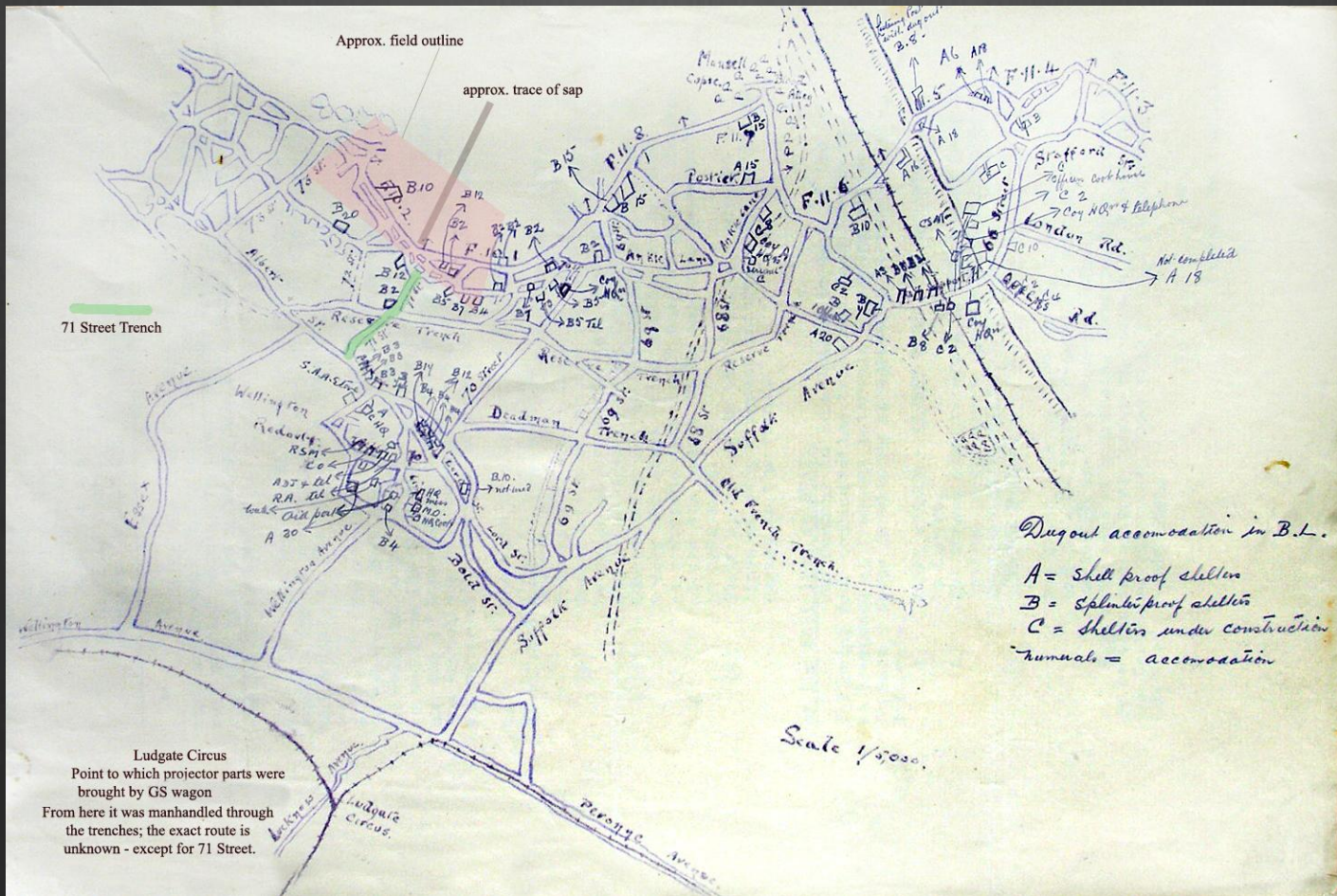
No.....

Date.....

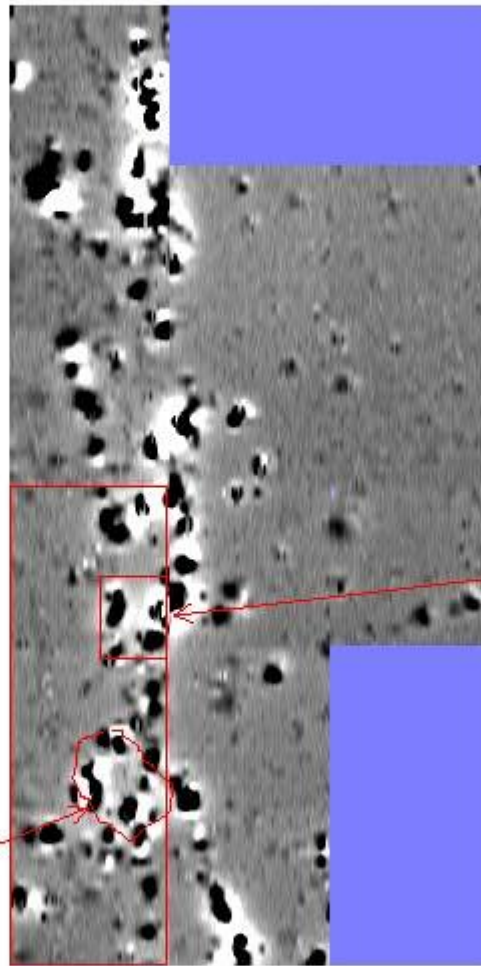
Summary of Events and Information

Date	Hour	
June 25th Cont.	6am.	Heavy shell sealed up end of sap for length of 20 feet, burying vital parts of flamenwerfer beyond recall.
	Noon	Party withdrawn through deep gallery. Circumstances reported to C.O. of Devons and B.M. 20th Brigade. No Casualties sustained.
	5pm.	Party returned to Billets at SAILLY-LE-SEC via BRONFAY FARM. Note This party was was billeted at MARICOURT L'ABBE on June 26; for convenience of administration this detachment was withdrawn and the whole unit controlled from SAILLY-LE-SEC as <u>Headquarters</u> .
		Turning now to Section III under ii Lieut. H.G.L. STRANGE, R.E. this party was organised as follows. One Subsection under the personal control of Lt Strange created a large Flamenwerfer in No 100 Sap. (this was later controlled entirely by Sgt. CHAFFER, R.E.) One Subsection under ii Lieut. R.L. STEWART, R.E. created a large flamenwerfer in No 130 Sap. One Subsection stood by at Bronfay Farm to supervise stores and to act

LE.



Gradiometer results

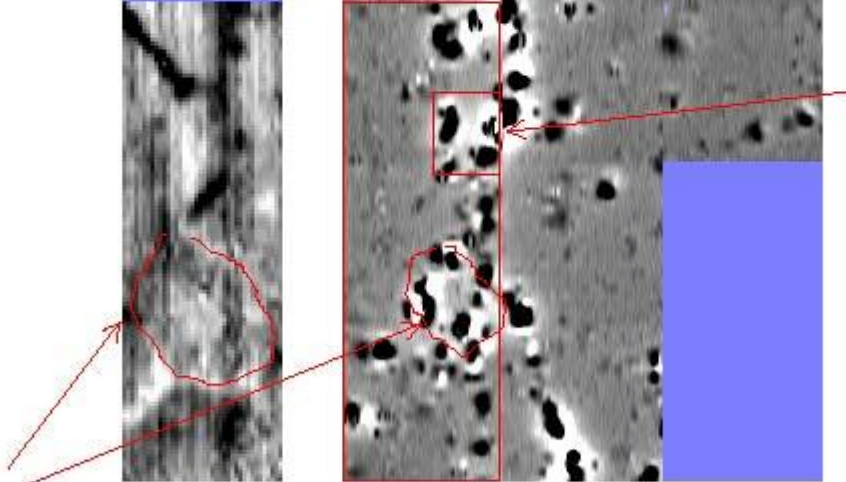


Resistivity results



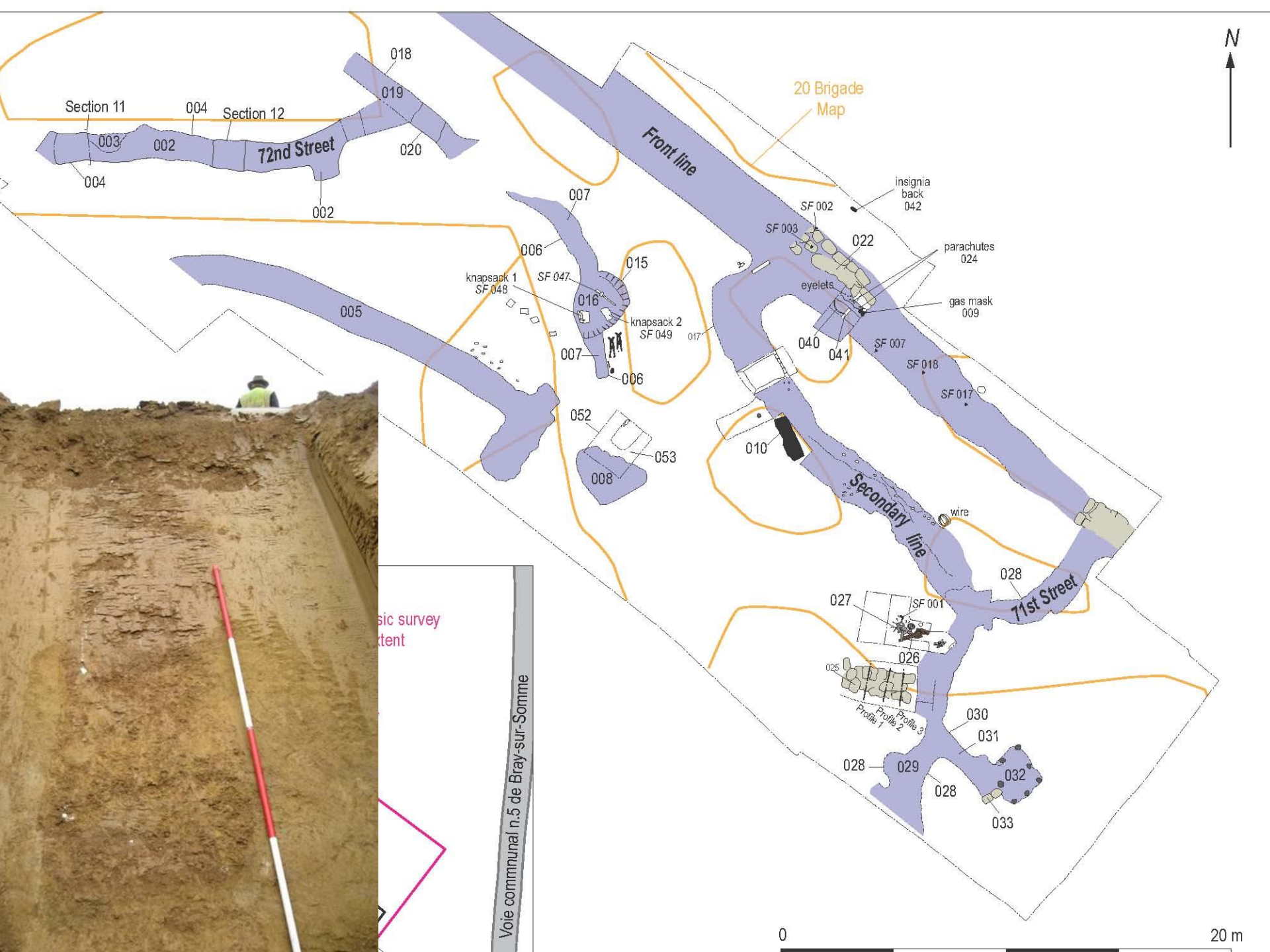
Area of West sap entrance

Shell crater









Section 11 004 Section 12

72nd Street

20 Brigade Map

Front line

insignia back 042

parachutes 024

gas mask 009

knapsack 1 SF 048

knapsack 2 SF 049

eyelets

005

052

008

010

040

041

SF 007

SF 018

SF 017

Secondary line

wire

028

71st Street

027

SF 001

026

025

Profile 1

Profile 2

Profile 3

030

031

028

029

028

032

033

Basic survey tent

Voie communal n.5 de Bray-sur-Somme

0

20 m



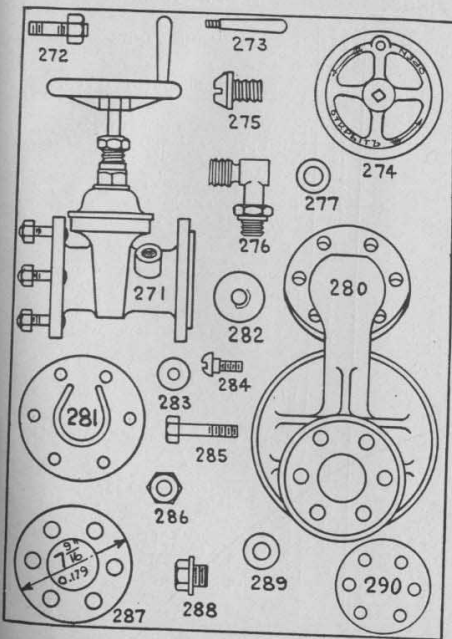


H.M. 2 FITTINGS.

Номера деталей number.	NAME OF PART.	Номера деталей Number	per set
28	Box for girder end	1	Ящик
29	Flex. for monitor inlet	1	Гибкая
30	Vulcanite joint for do	12	Вулкани
31	Monitor clamps with screws	18	Зажимы
32	Bent tail inlet pipe	1	Вогнутый
33	Tube piston	1	Труба
34	Lower stand pipe	1	Нижняя
35	Stand pipe drain cock	1	Спуск
36	" " " hose	1	Шланг
37	Monitor long stay	2	Длинная
38	" short "	2	Короткая
39	Left hand nut for ditto do	2	Гайка
40	Washer for ditto do	2	Прокладка
41	Stay turnbuckles	2	Настройка
42	Strut right hand	1	Связь
43	" left "	1	"
44	" bolt and nut	4	Болт







H.M. 2 FITTINGS.

Номера частей, набора, number.	NAME OF PART.	Номера набора, Number.
	PROJECTION PIPE.	
	ВЫБРАСЫВАЮЩАЯ ТРУБА.	
271	Gate valve	1
272	19 m/m stud and nut	6
273	Handle	1
274	Hand wheel	1
275	Spindle screw	1
276	Bye-pass elbow	1
277	" joint washer	2
280	Delivery head	1
281	Non return valve	2
282	" " plate	2
283	" " washer	2
284	" " screw	2
285	Delivery head bolts	9
286	" " nuts	9
287	Delivery head joint for 280	4
288	" " plug	1
289	" " washer	1
290	Blank flange for 280	1
	Задвижка	
	19 м/м вкладыш и гайка	
	Ручка	
	Маховичек	
	Винт на шпindelъ	
	Обводное колъно	
	Прокладка обводного соединенiя	
	Отводъ	
	Возвратный клапанъ	
	Возвратная пластинка	
	" прокладка	
	Возвратный винтъ	
	Болты напорной головки	
	Гайки " "	
	Соединительное кольцо напорной головки для 280	
	Втулка напорной головки	
	Прокладка " "	
	Глухой фланецъ для 280	

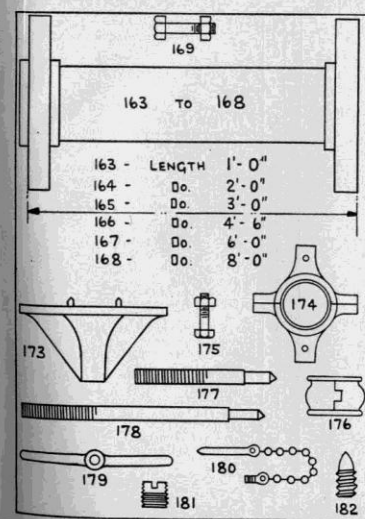






H.M. 2 FITTINGS.		H.M. 2 АРМАТУРА.	
Идентификационный номер детали	NAME OF PART.	Идентификационный номер детали	НАЗВАНИЕ ЧАСТИ.
MONITOR.		МОНИТОРЪ.	
163	1'-0" Extension pipe	1	0.305 м. дополнительная труба
164	2'-0" " " "	1	0.609 " " " "
165	3'-0" " " "	1	0.914 " " " "
166	4'-0" " " "	1	1.371 " " " "
167	6'-0" " " "	1	1.828 " " " "
168	8'-0" " " "	1	2.438 " " " "
169	3/4" bolts and nuts	28	19 мм болты и гайки
173	Side frames	4	Боковые рамы
174	Guide	2	Направляющая
175	3/4" bolts and nuts	8	19 мм болты и гайки направляющей
176	bearings	2	Подшипники направляющей
177	Short screw	2	Короткий винт
178	Long screw	2	Длинный винт
179	Handle	4	Ручка
180	Pin, chain and eye	4	Чека, цепь и ушко
181	Bearing stop	4	Упор подшипника
182	Guide strips	16	Направляющие полосы

23









EXPOSITION TEMPORAIRE
TEMPORARY EXHIBITION

HISTORIAL DE LA GRANDE GUERRE
MUSEUM OF THE GREAT WAR

Vermandois - Somme - Picardie

**BREATHING FIRE,
LE DRAGON DE LA SOMME**
LE LANCE-FLAMMES BRITANNIQUE LIVERS
L'UN DES PLUS EFFICACES DE LA GUERRE

16 juin > 11 décembre 2011
10h-18h / 10 am-6 pm



Conflict Resolution and Closure



Nach den Angriffen am 19.7.16. bei Fromelles

N





To Officer in Charge,
Base Records.

A.I.F. Headquarters Horseferry Road,
LONDON.

Dear Sir,

I am writing to inquire of my son John Joseph GOULDING, No. 555. B. Company. 31st Battalion, A.I.F. who was reported missing since July 19th 1916. I have not received anything belonging to him but disc was sent from Germany sometime during 1917 with a promise that further inquiries would be made and I would be notified. Have heard no further of him. I have waited patiently with a aching heart for news of him if only I could know that he did not suffer too much from the Huns if he fell in their hands which I have reasons to believe during that dreadful slaughter of ~~Pleas~~ Pleas-Bay of which thousands of Australian Mothers has reasons to think seriously. My son left Australia to do his bit for the country he was born in England. He did not stand long but I do hope that something further will be made known to me although three years has passed it seems but as yesterday. I am still waiting.

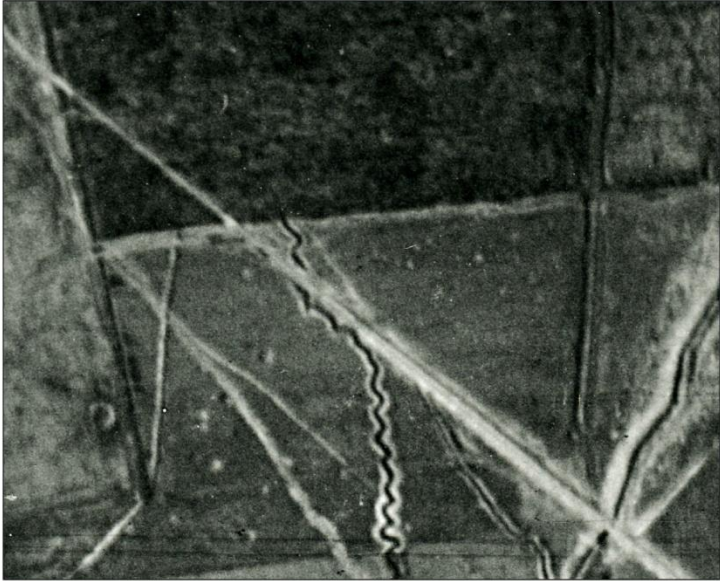
First missing, then Prisoner of war then killed in action. I know he was not the only one by thousands but he was my son just lent to me for 35 years and then missing. I know a good son, I believe a good man but do not know if a good soldier. He has paid the price as many others have done but in all the world their is no love like a mothers love for her children if she is ever so poor, if a true woman.

I have been trying to be patient for three years hoping but just today I thought perhaps you have forgotten but this I know that the war has just begun for mothers that dearly loved their boys all over the world. God help them to bear it. The suspeace is what makes it so hard. Hoping this mail will bring some tidings or the next but one.

I cannot write more and I know you don't want to read more. May I please ask will you try and find out if any record of him, my boy, and oblige

(Sgd) Mrs. J. Alice Goulding.

Figure 3a: Aerial Photos
Sequence 1



CU IW MA 100 284 map
25.04.1916

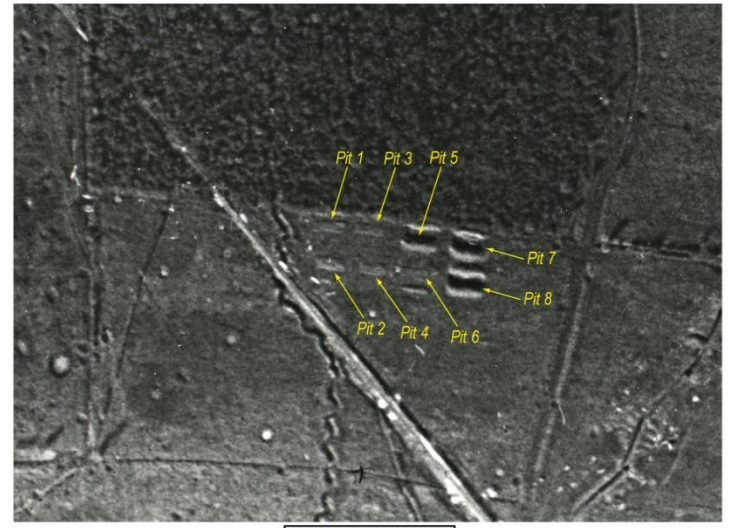


CU IW M 98 300 map
29.07.1916



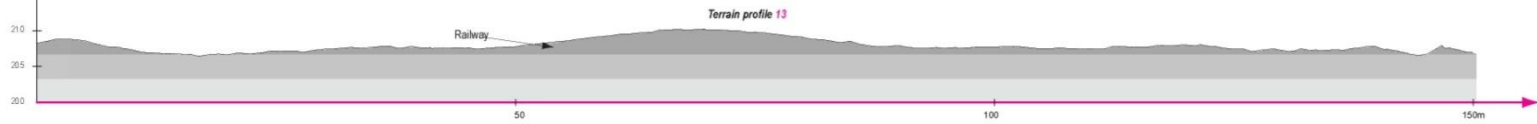
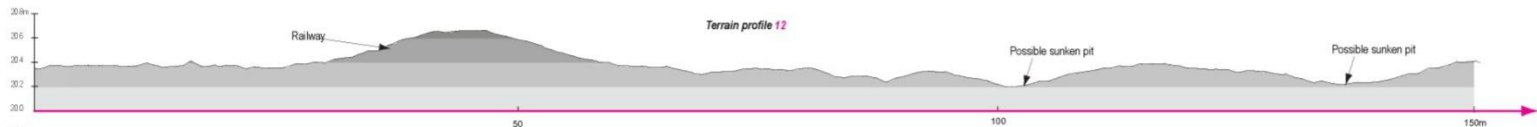
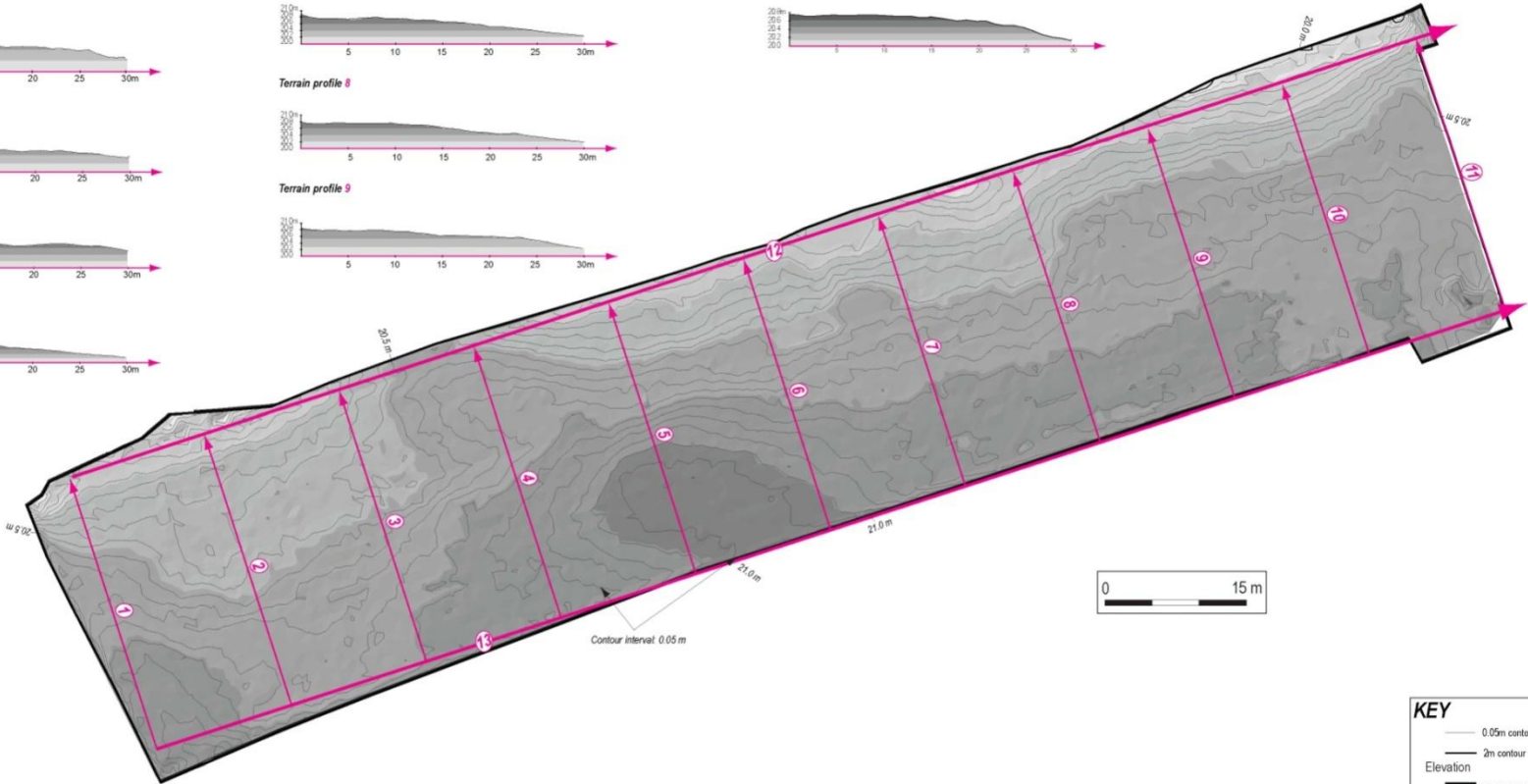
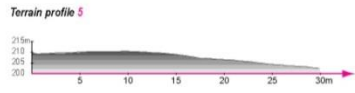
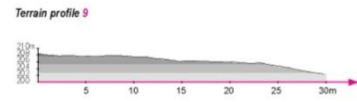
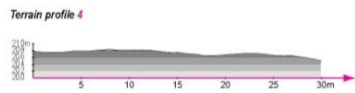
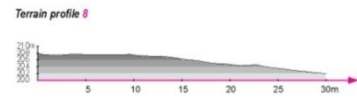
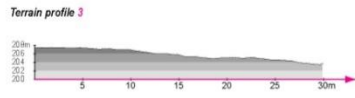
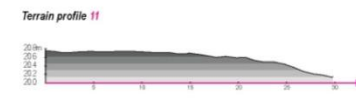
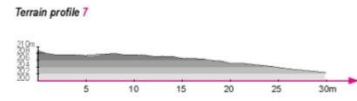
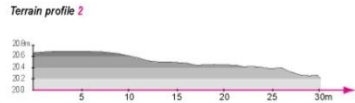
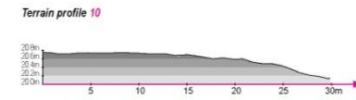
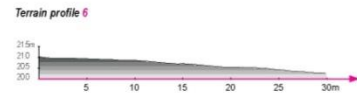
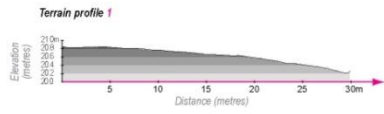
CU IW M 98 359 map
01.08.1916

CU IW M 98 361 map
01.08.1916



CU IW M 99 359 map
22.10.1916

Figure 4: Topographic survey



KEY

- 0.05m contour
- 2m contour

Elevation

21.594 - 21.807 m
21.381 - 21.594
21.168 - 21.381
20.955 - 21.168
20.742 - 20.955
20.529 - 20.742
20.315 - 20.529
20.102 - 20.315
19.889 - 20.102

Figure 5: Geophysique Survey

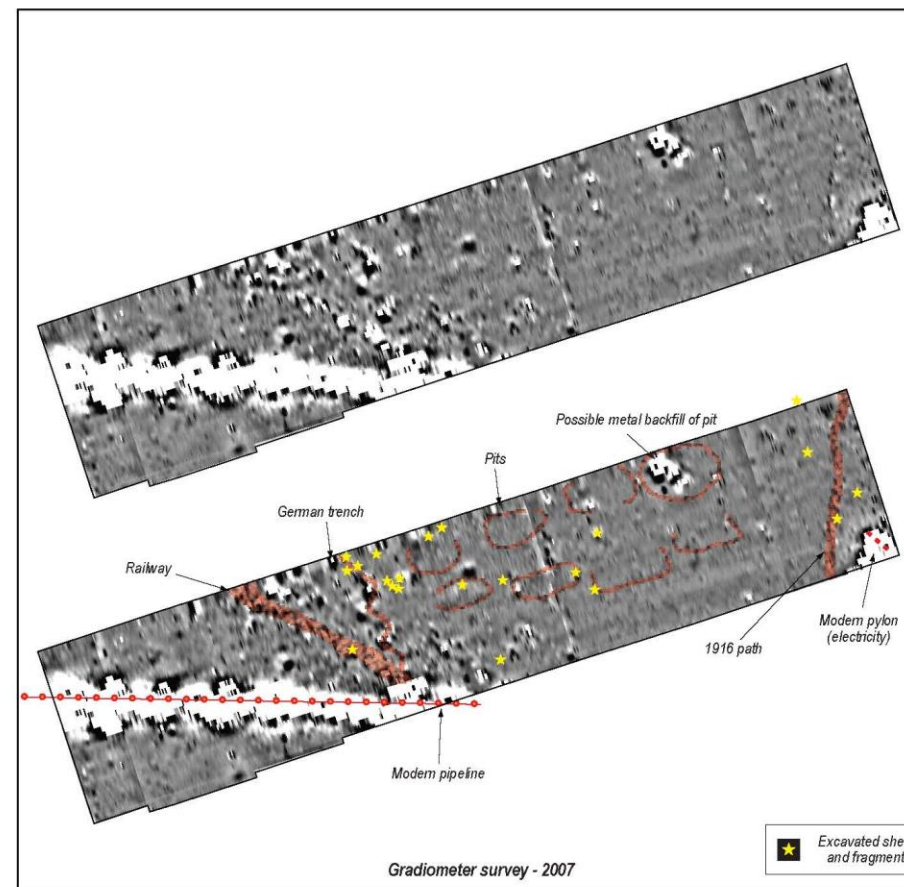
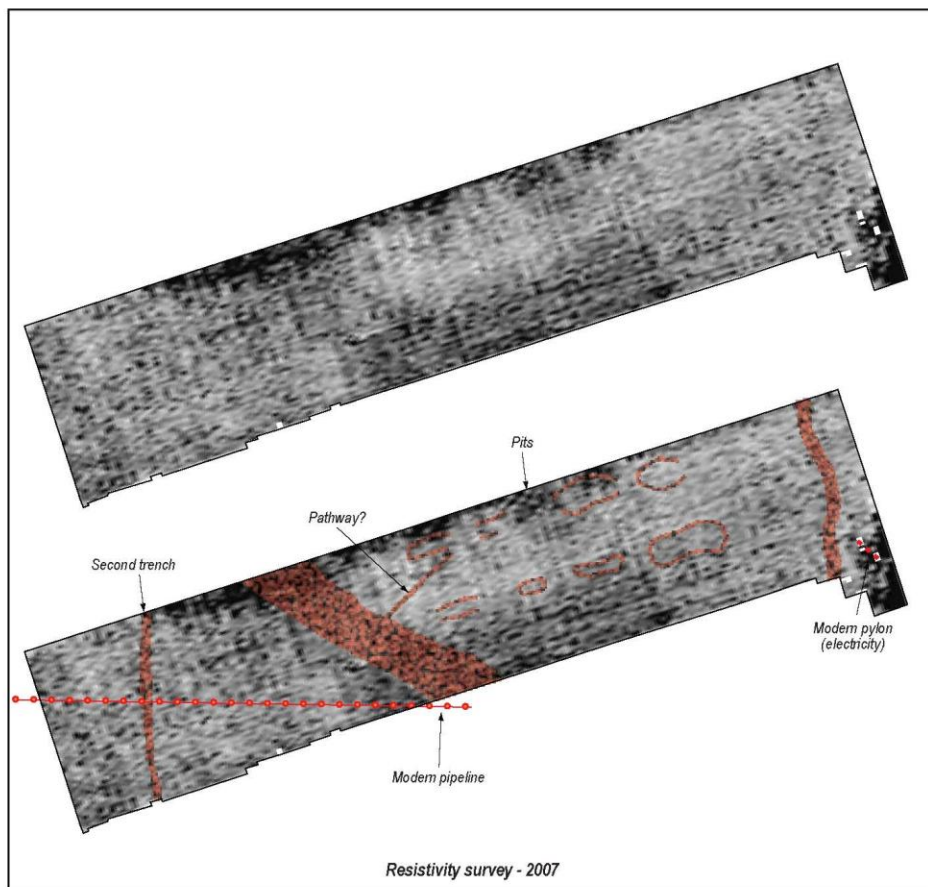
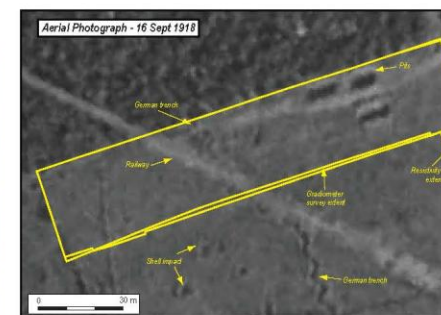
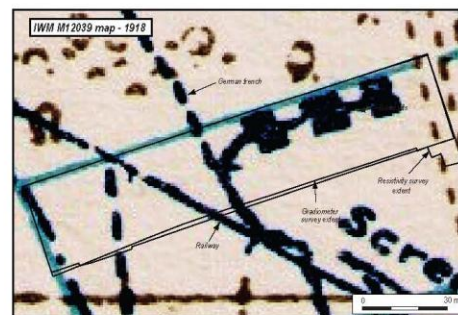
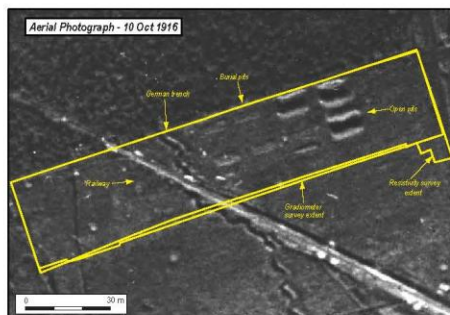
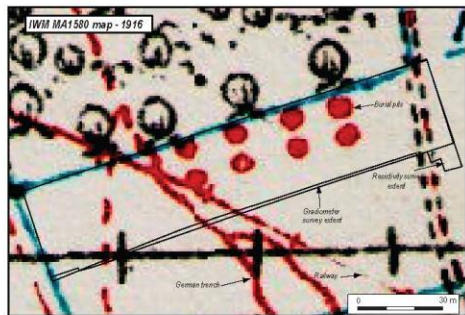
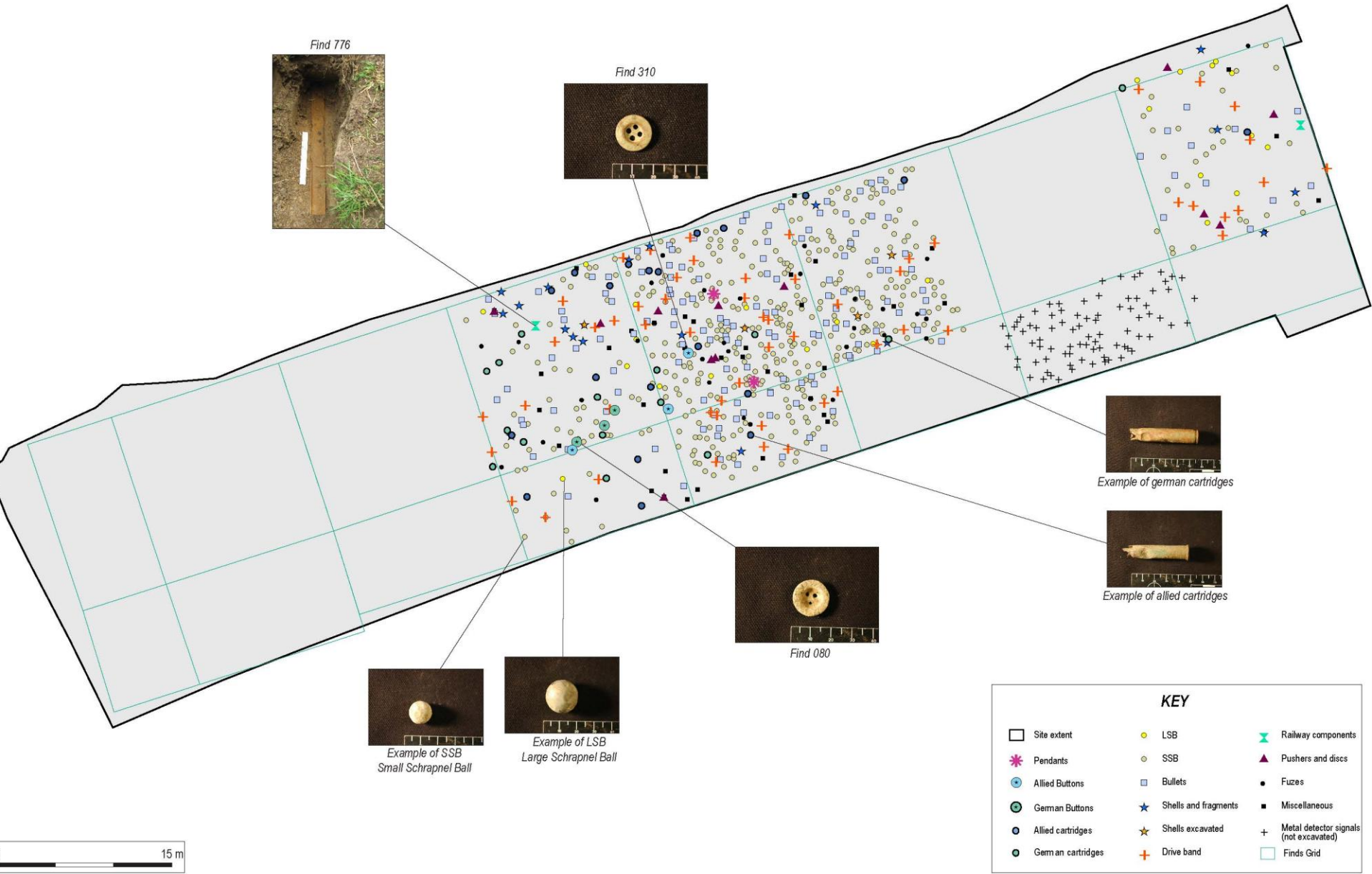
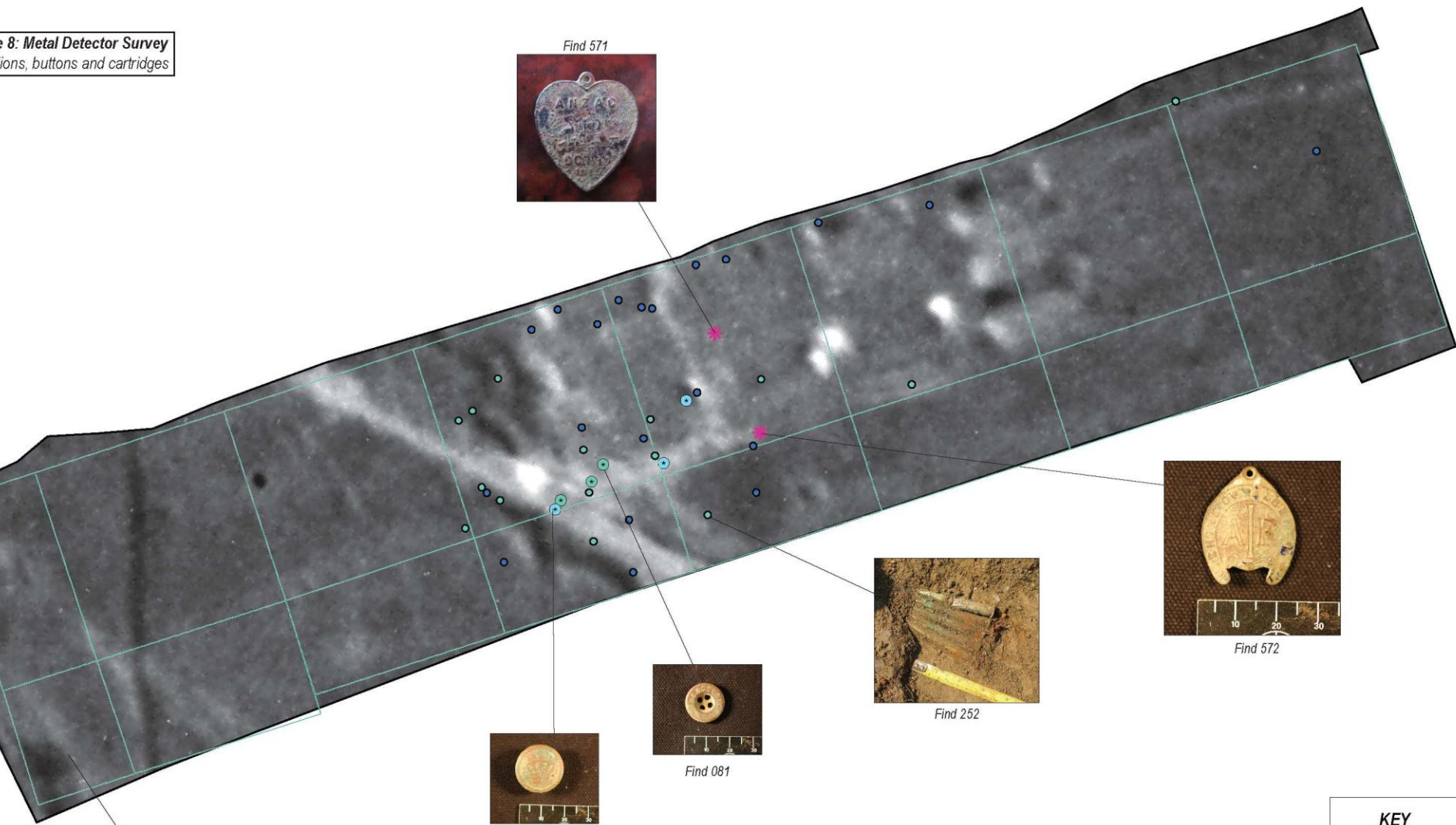


Figure 7: Metal Detector Survey
All finds



8: Metal Detector Survey
 ions, buttons and cartridges



Find 571



Find 572



Find 252



Find 081



Find 079

CU IW M 98 359 map
 01.08.1916



KEY	
	Finds Grid
	Site extent
	Pendants
	Allied Buttons
	German Buttons
	Allied cartridges
	German cartridges

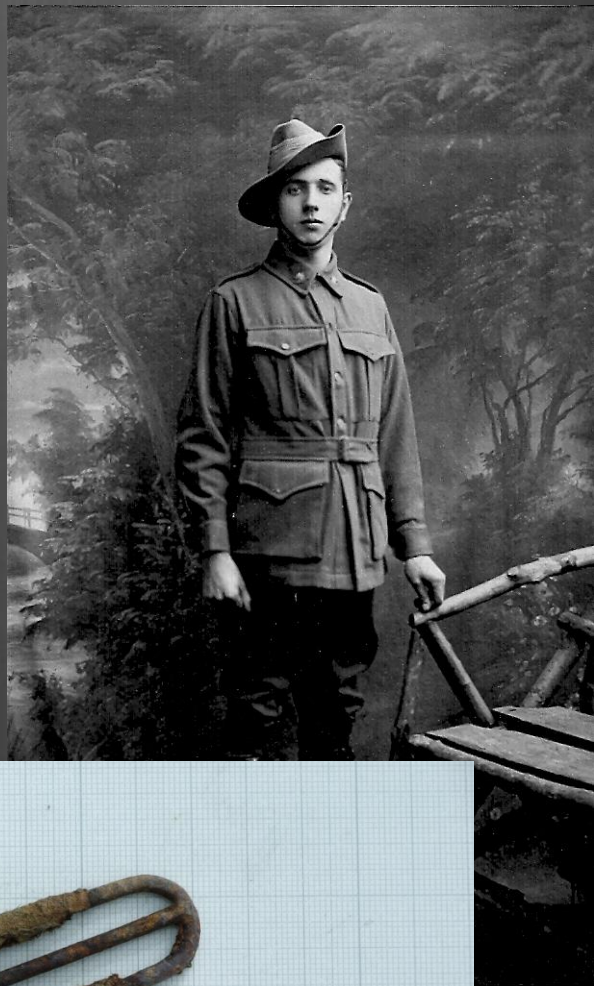


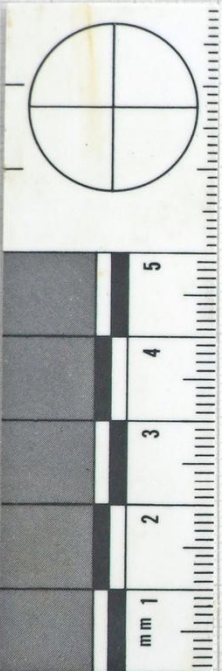


Private Harry Willis

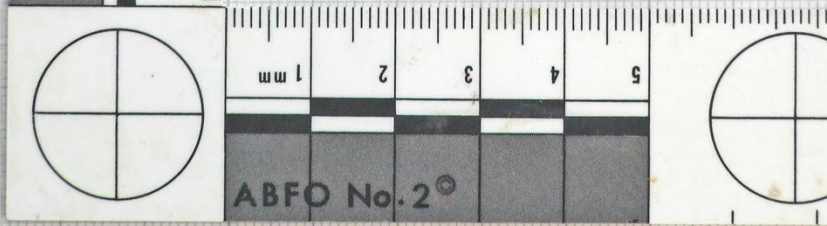


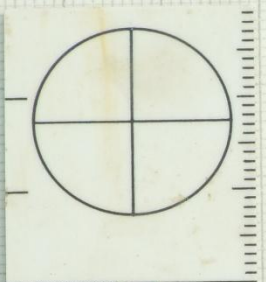






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