Prysor South - Project 1688

Contents

Fig. 1a.	Location	Frontpiece
1b.	Property Index;	following Frontpiece
	Report:-	
	Introduction,	Pages 1 - 5
	Previous work,	
	Present work,	
	Geochemistry,	
	Geophysics,	
	Conclusion.	
Figs 8 and 9	Geology and Geomagnetics.	
Fig. 2	Copper geochem.	
3	Lead.	
4	Zinc.	
Fig. 5	Old workings and I.P. Grids.	
6	I.P. Afon Gain Grid	
7	I.P. S. Prysor Grid 2	
Fig 10	Magnetometer Traverse curves	
11	Pit profile geochemistry with geophysics.	

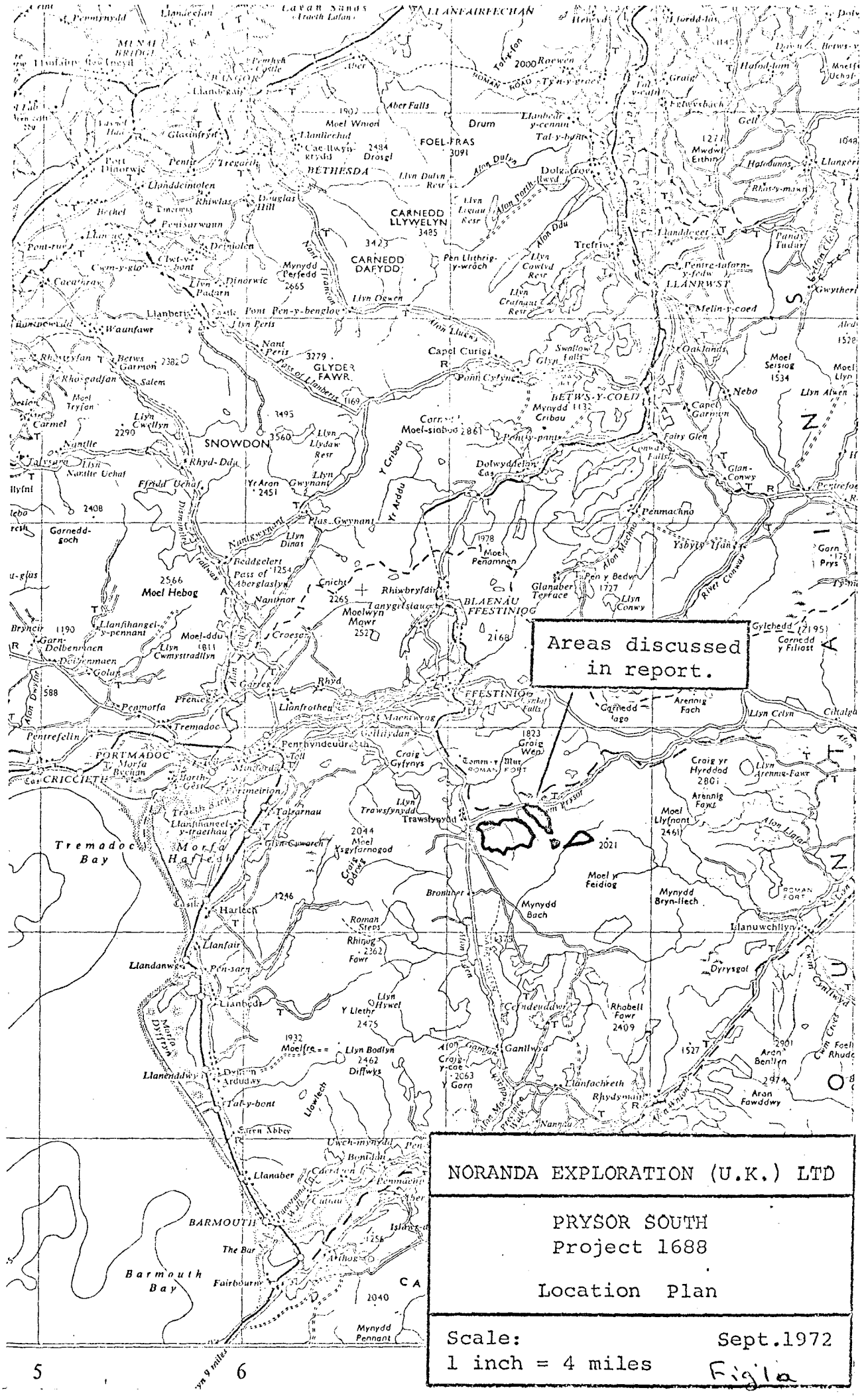
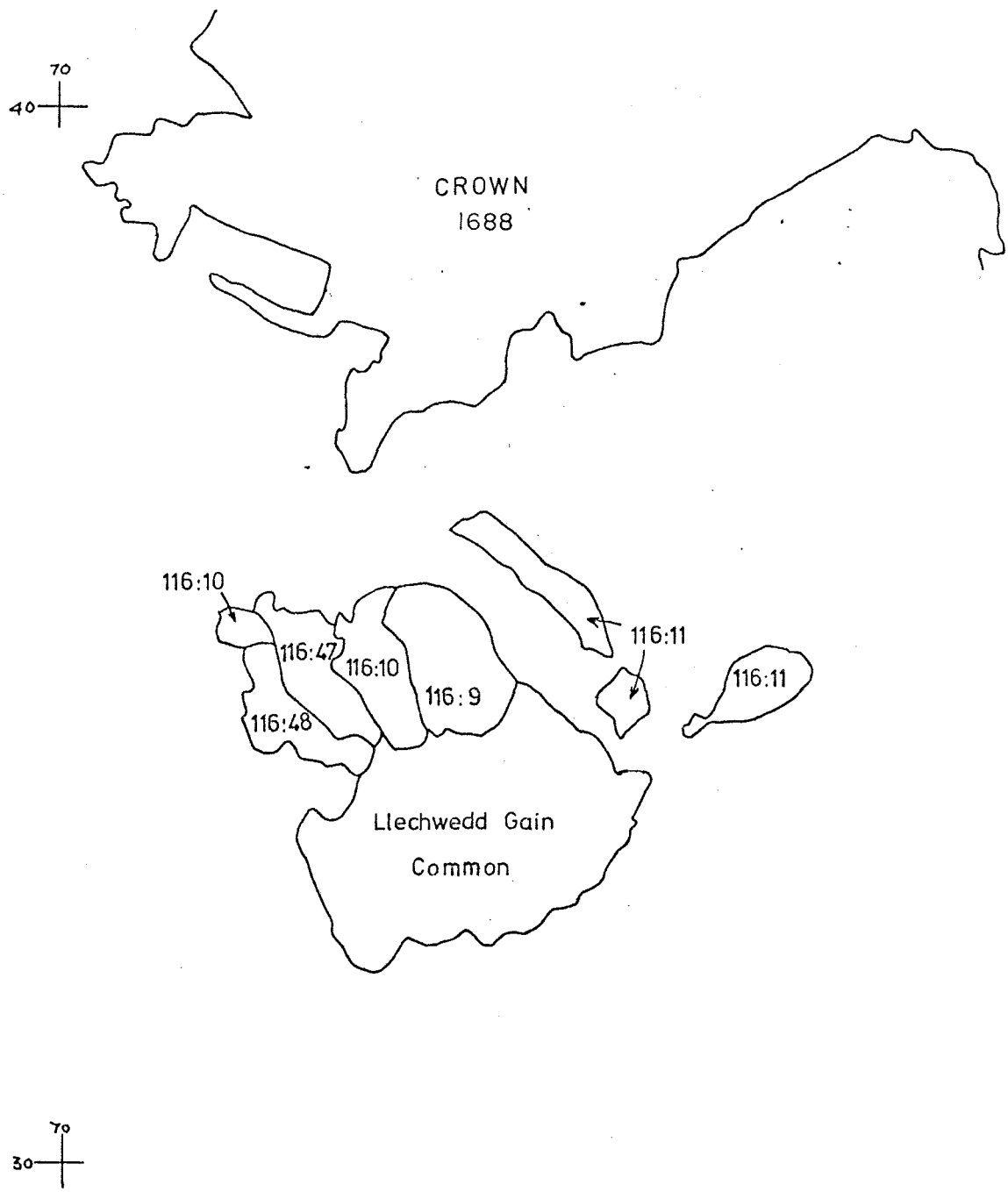

Areas discussed in report.
NORANDA EXPLORATION (U.K.) LTD
PRYSOR SOUTH
Project 1688
Location Plan
Scale:
1 inch = 4 miles
Sept.1972
Figla
BETHESDA
CARNEDD LLYWELYN
CARNEDD DAFYDD
GLYDER FAWR
SNOWDON
Moel Hebog
BETWS-Y-COED
LLANRWST
BLAENAU FFESTINIOG
FFESTINIOG
PORTMADOC
CRICCIETH
Tremadoc Bay
Barmouth Bay
BARMOUTH
Harlech
Llanbedr
Llanaber
Trawsfynydd
Bronllwyn
Mynydd Bach
Moel y Feidiog
Mynydd Bryn-llech
Llanuwchllyn
Dyrysgol
Rhobell Fawr
Aran Benllyn
Aran Fawddwy
Llanfachreth
Rhydymain
Llanfair
Llandanwg
Llanenddwyn
Tal-y-bont
Llyn Tegid
Llyn Celyn
Llyn Alwen
Llyn Brenig
Llyn Conwy
Llyn Dulyn
Llyn Ogwen
Llyn Peris
Llyn Cwellyn
Llyn Dinas
Llyn Gwynant
Llyn Llydaw
Llyn Trawsfynydd
Llyn Hywel
Llyn Bodlyn
Llyn Cowlyd
Llyn Crafnant
Llyn Eigiau
Llyn Dulyn Resr
Llyn Ogwen
Llyn Peris
Llyn Cwellyn
Llyn Llydaw Resr
Llyn Trawsfynydd
Llyn Hywel
Llyn Bodlyn
Llyn Celyn
Llyn Alwen
Llyn Brenig
Llyn Conwy
Llyn Tegid
Afon Dulyn
Afon Ogwen
Afon Llugwy
Afon Conwy
Afon Mawddach
Afon Dwyfor
Afon Glaslyn
Afon Lliw
Afon Prysor
Afon Tryweryn
Afon Llafar
Afon Cwm Cneifiwd
Afon Cwm Croes
Afon Machno
Afon Lledr
Afon Ceiriog
Afon Tal-y-llyn
Afon Ffestiniog
Afon Gamlan
Afon Mawddach
Afon Wnion
Afon Dwyfor
Afon Glaslyn
River Conwy
Nant Ffrancon
Nant Peris
Nant Gwynant
Nant Colwyn
Nant Ffestiniog
Nant Mawddach
Nant Gwynant
Nant Ffestiniog
Pass of Llanberis
Pass of Aberglaslyn
Llanberis Pass
Roman Road
Roman Steps
Roman Fort
Roman Camp
Llanberis
Llanrwst
Llanuwchllyn
Llanfachreth
Llanfair
Llandanwg
Llanenddwyn
Llanaber
Llanbedr
Llanfair
Llanfachreth
Llanuwchllyn
Llanrwst
Llanberis
Llanbedr
Llanaber

Fig. 1b.

116:9 Bronysgellau
116:10 Bod-y-Fuddau
116:11 Nantfudr
116:47 Ysgwern
116:48 Plas Captain



NORANDA EXPLORATION (UK) LIMITED

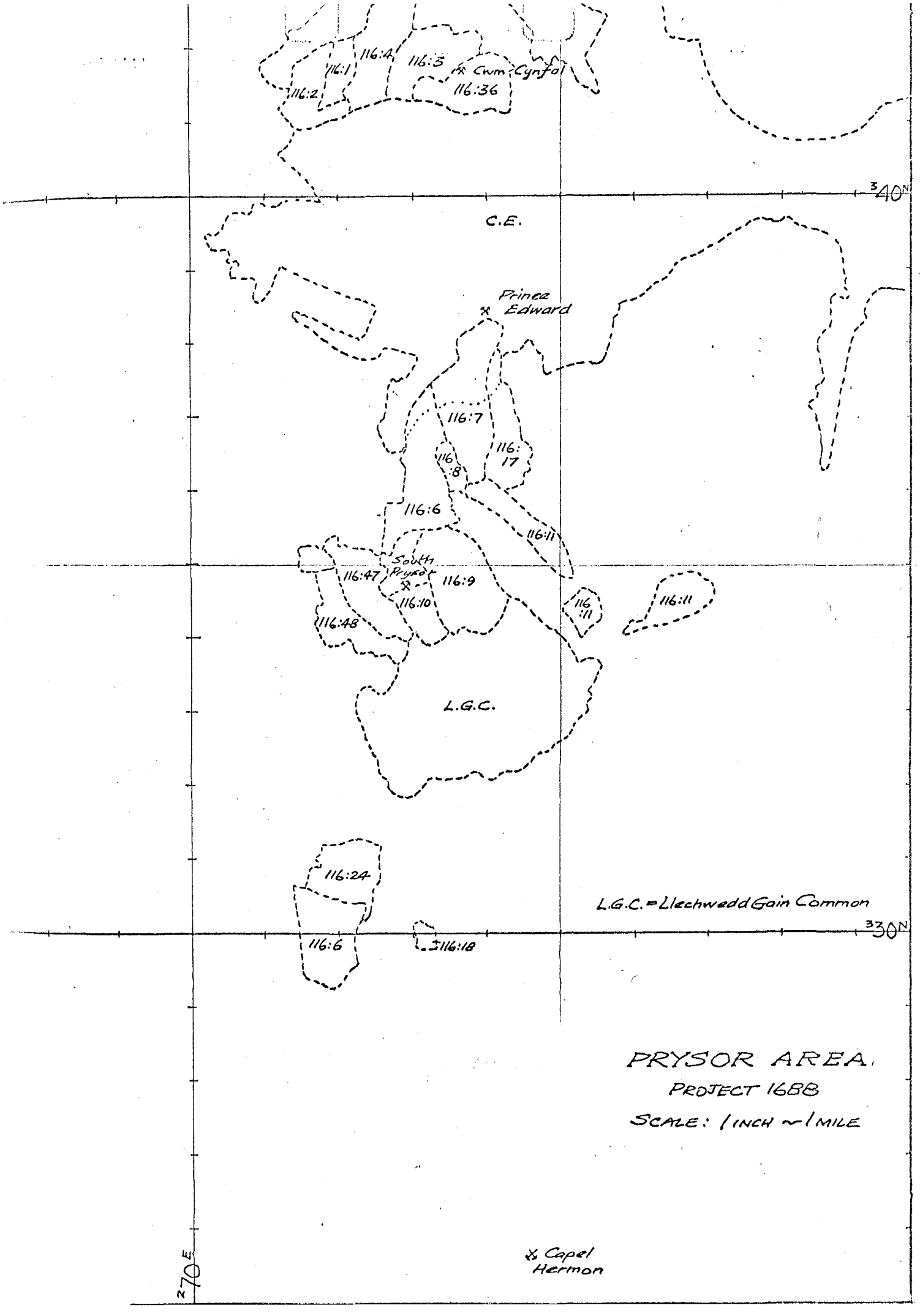
Prysor SR. Proj. 1688

PROPERTY INDEX MAP

Ordnance Survey Sheet No. Dolgellau 116

Scale: 1 inch to 1 mile.

Fig. 1b.


116:1
116:2
116:4
116:3
Cwm Cynfal
116:36
40N
C.E.
Prince Edward
116:7
116:8
116:17
116:6
116:11
South Prysor
116:47
116:9
116:10
116:11
116:11
116:48
L.G.C.
116:24
L.G.C. = Llechwedd Gain Common
30N
116:6
116:18
PRYSOR AREA.
PROJECT 1688
SCALE: 1 INCH ~ 1 MILE
Capel Hermon
270E

Ordnance Survey 6" Sheet Nos.

SH 73 NW	SH 73 NE
SH 73 SW	SH 73 SE

N

NORANDA EXPLORATIONS (UK) LIMITED

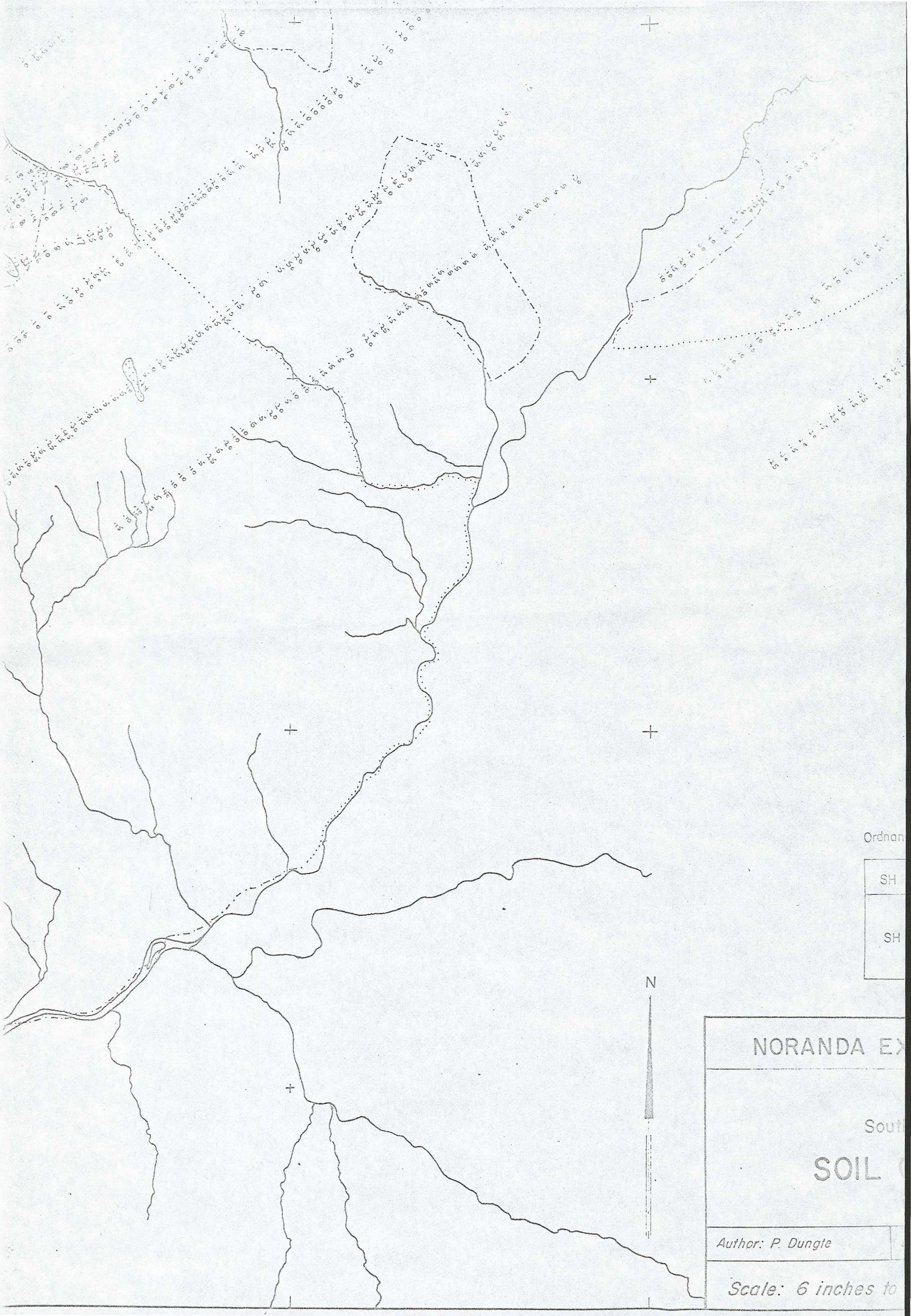
PROJECT 1688

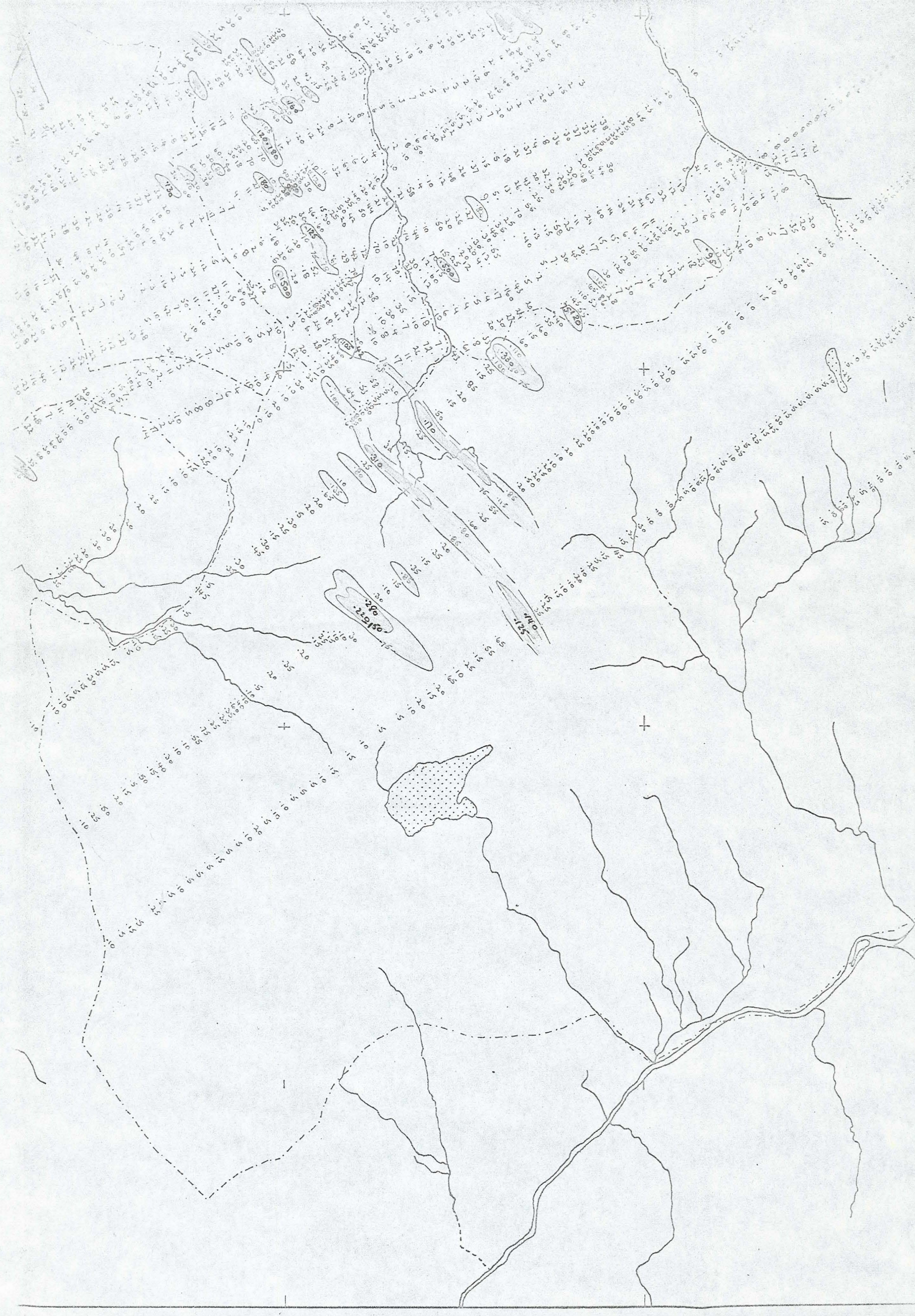
South Prysor, North Wales.

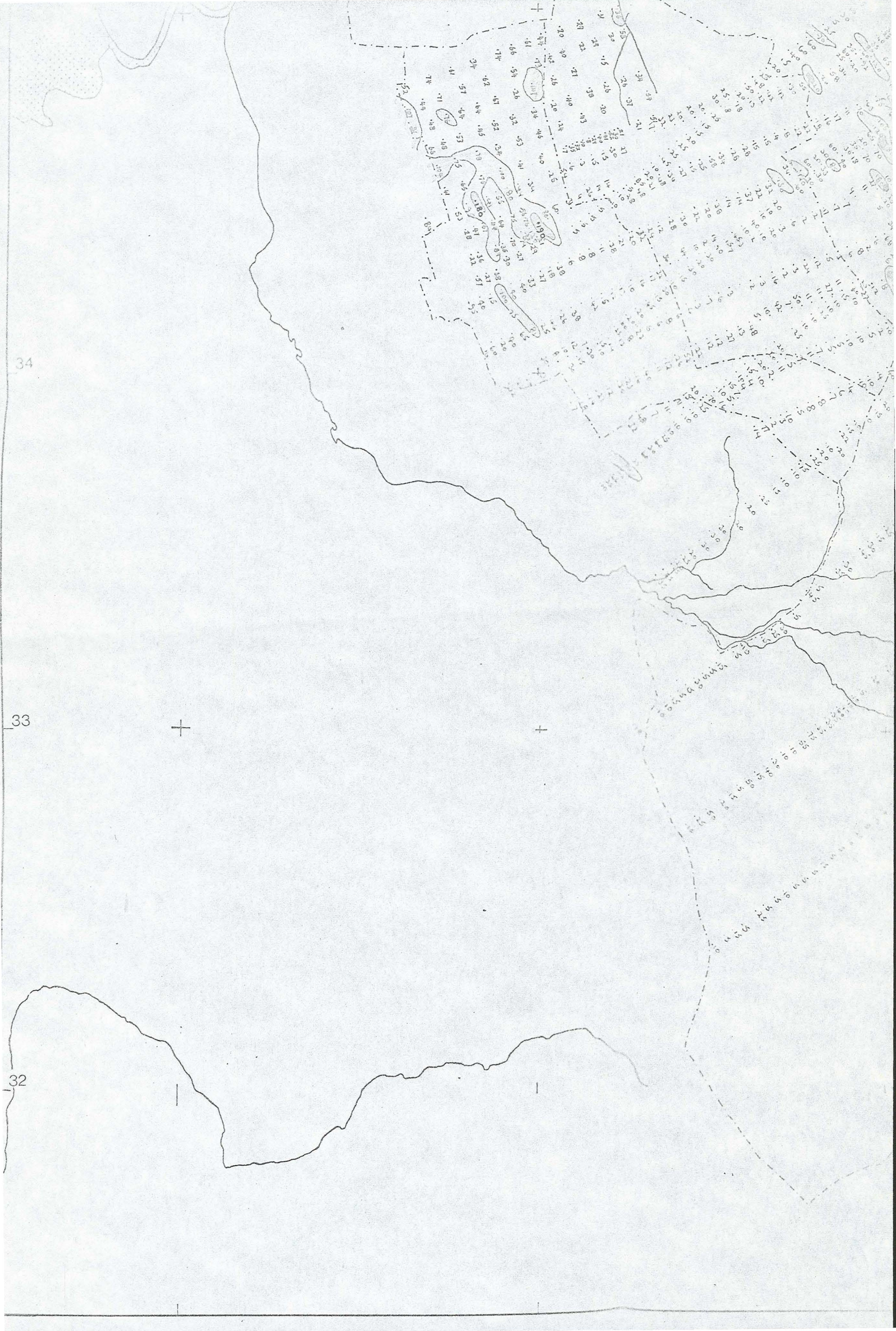
SOIL GEOCHEMISTRY

Cu. in p.p.m.

Author: P. Dungte	Date of work:	Drawn: P.D. Date:
Scale: 6 inches to 1 mile.		Revised: Fig 2


N
Ordnan
SH
SH
NORANDA E
Sout
SOIL
Author: P. Dungte
Scale: 6 inches to



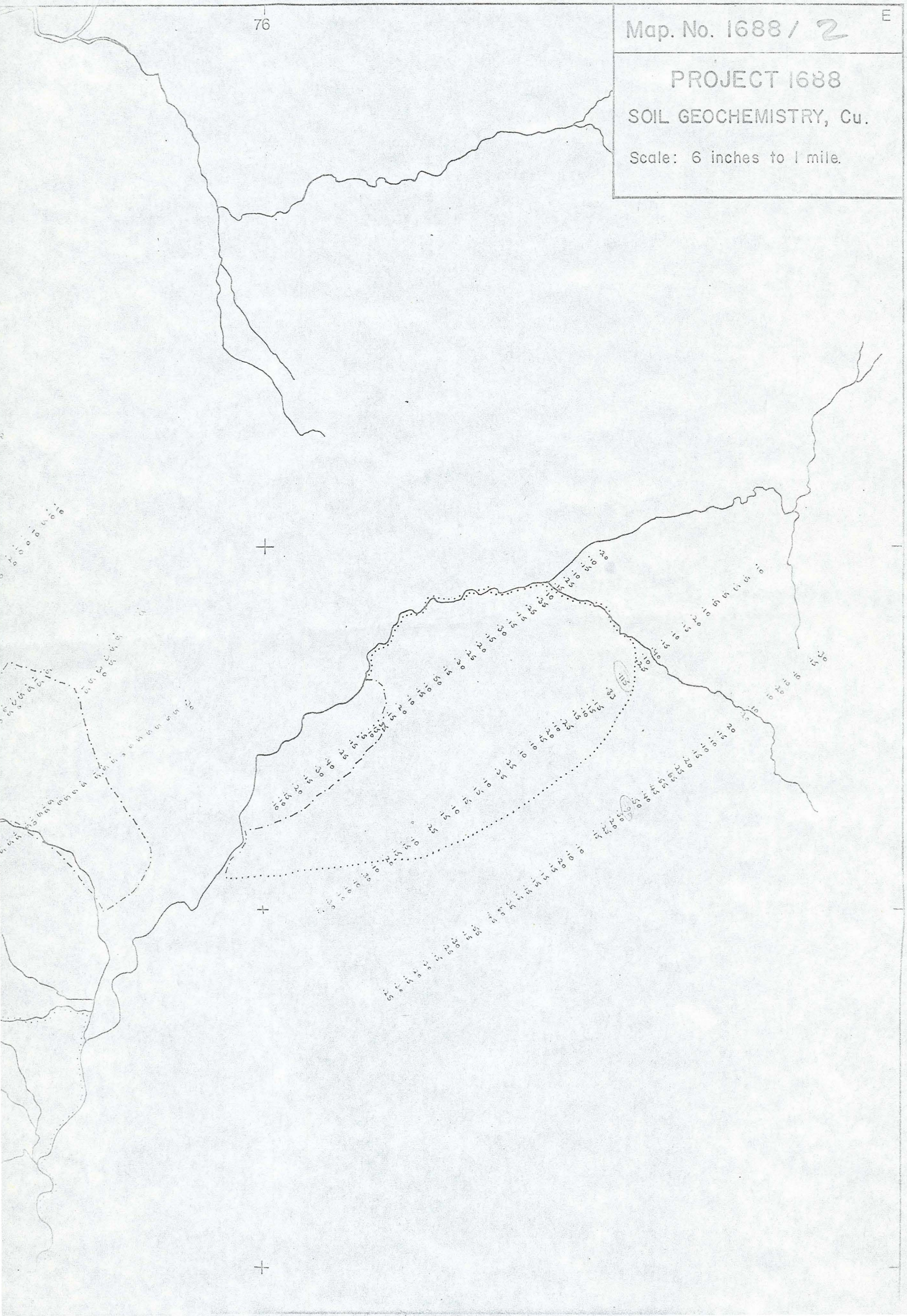

34
33
32

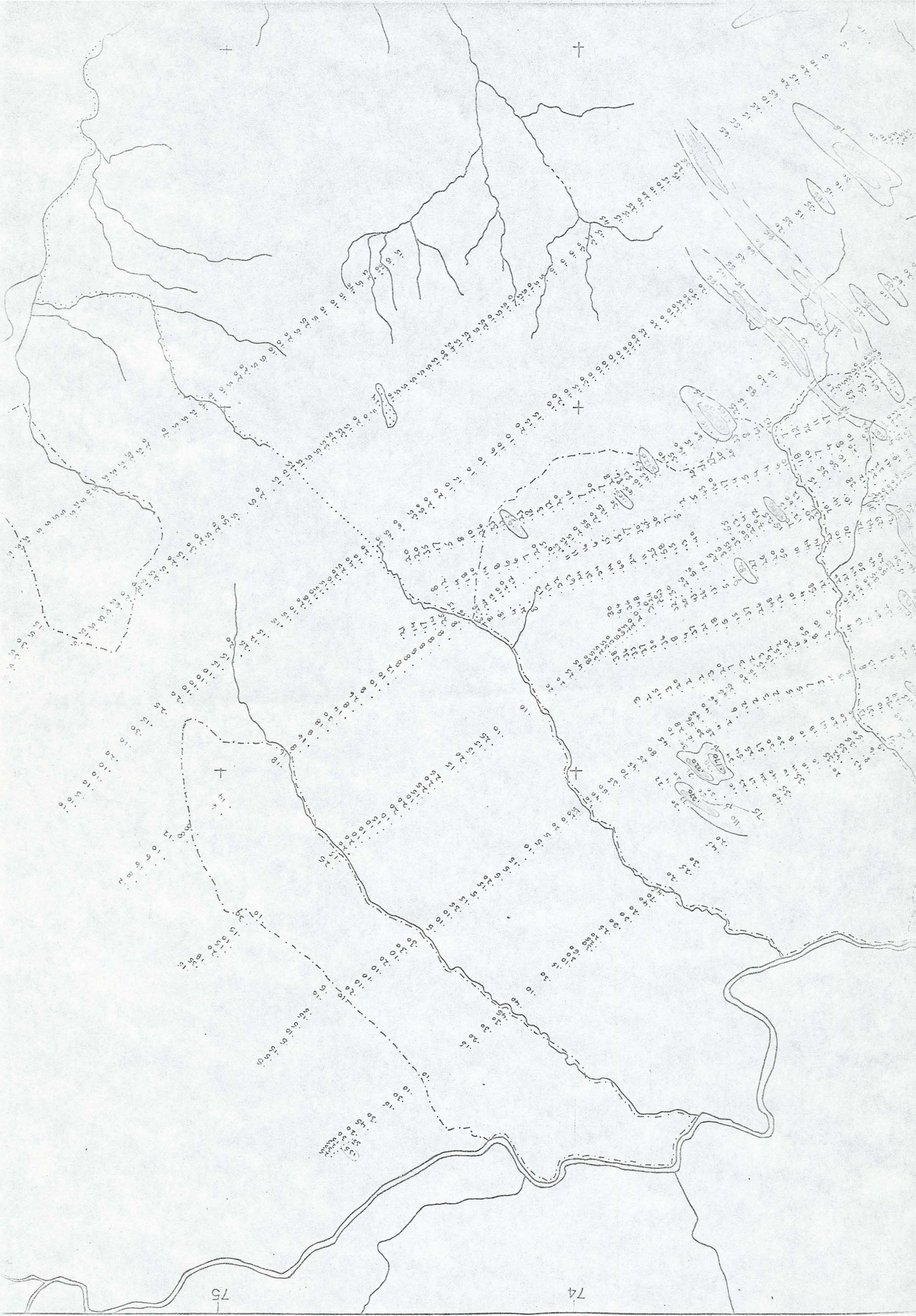
Map. No. 1688 / 2

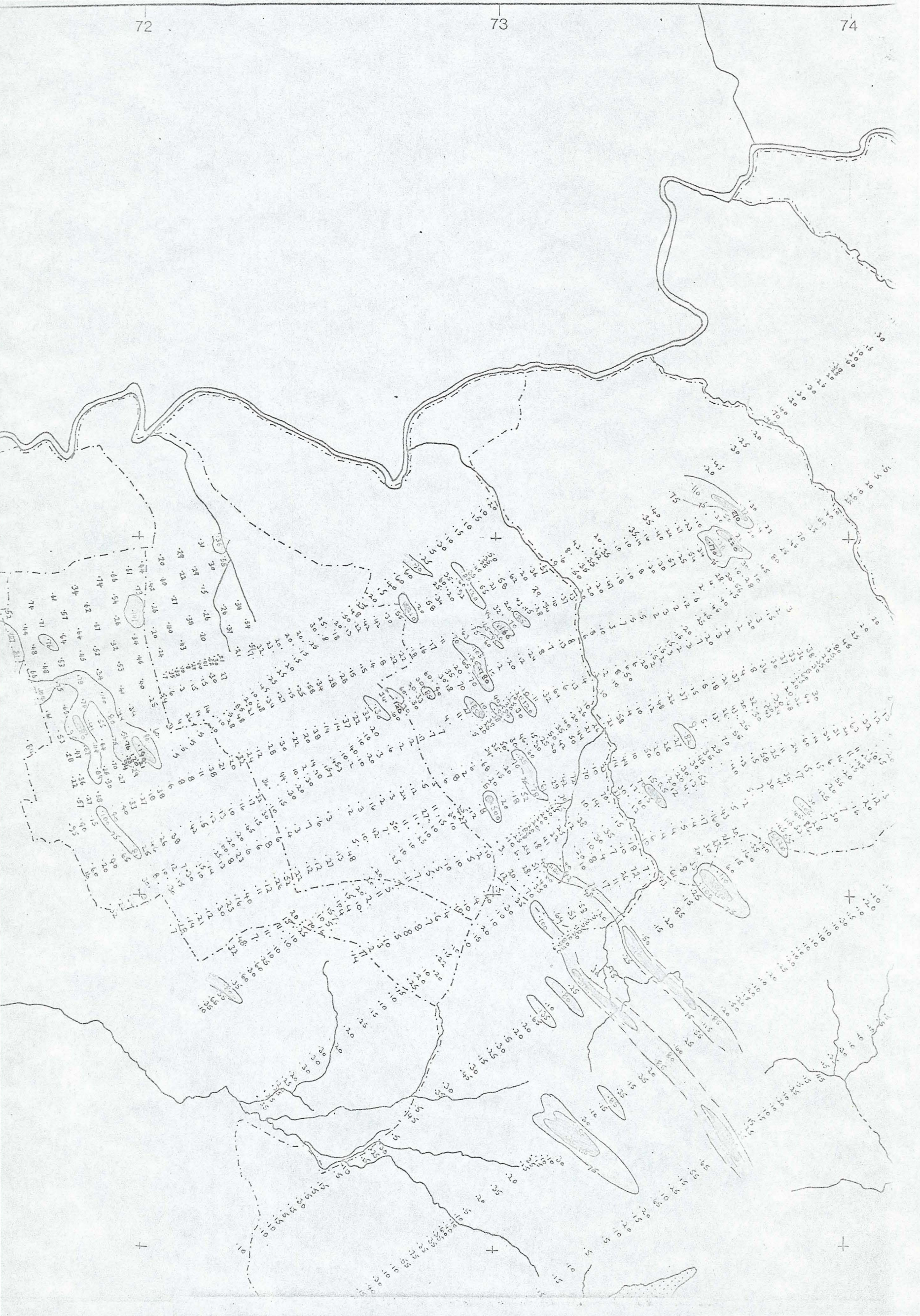
PROJECT 1688

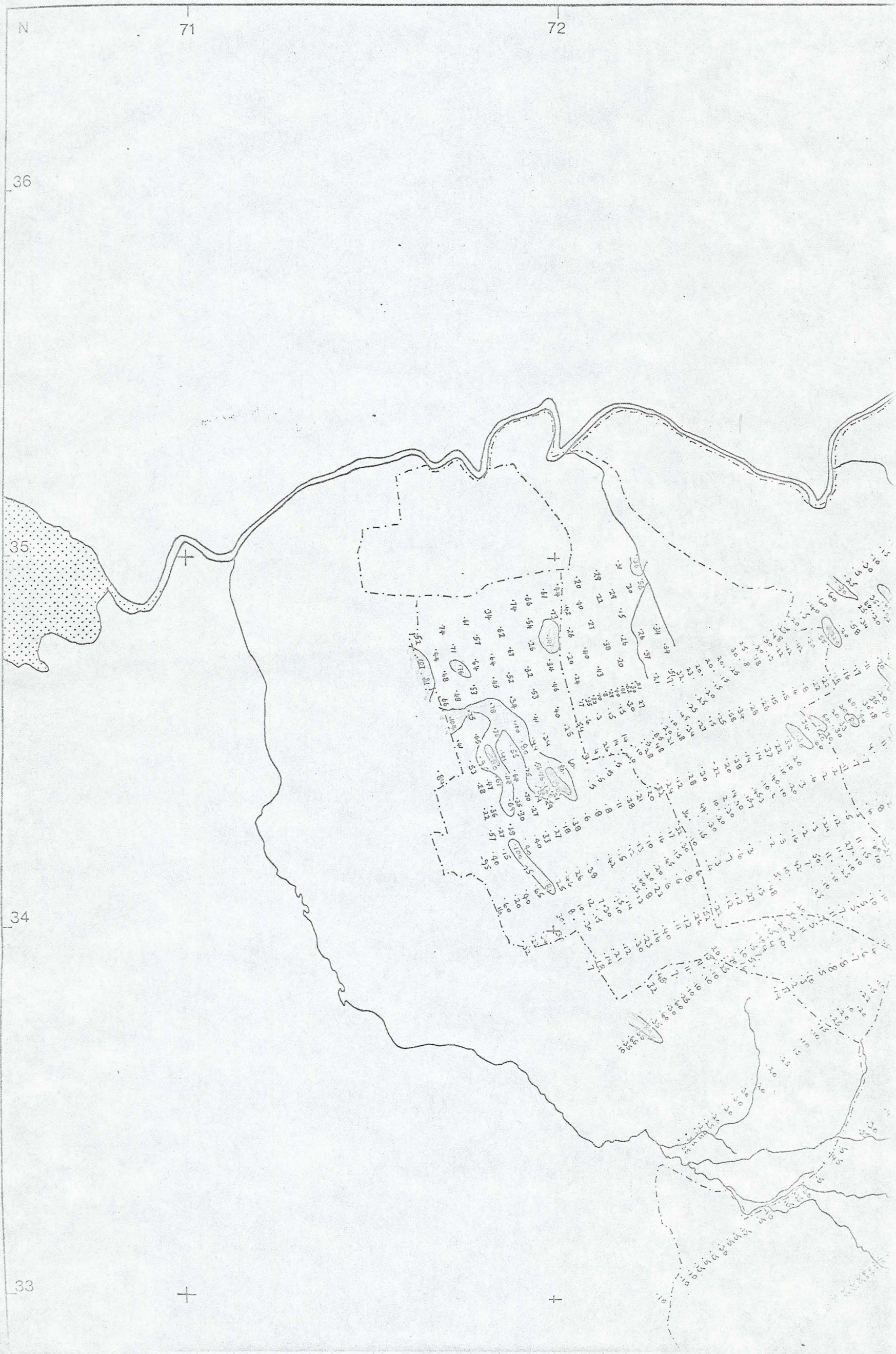
SOIL GEOCHEMISTRY, Cu.

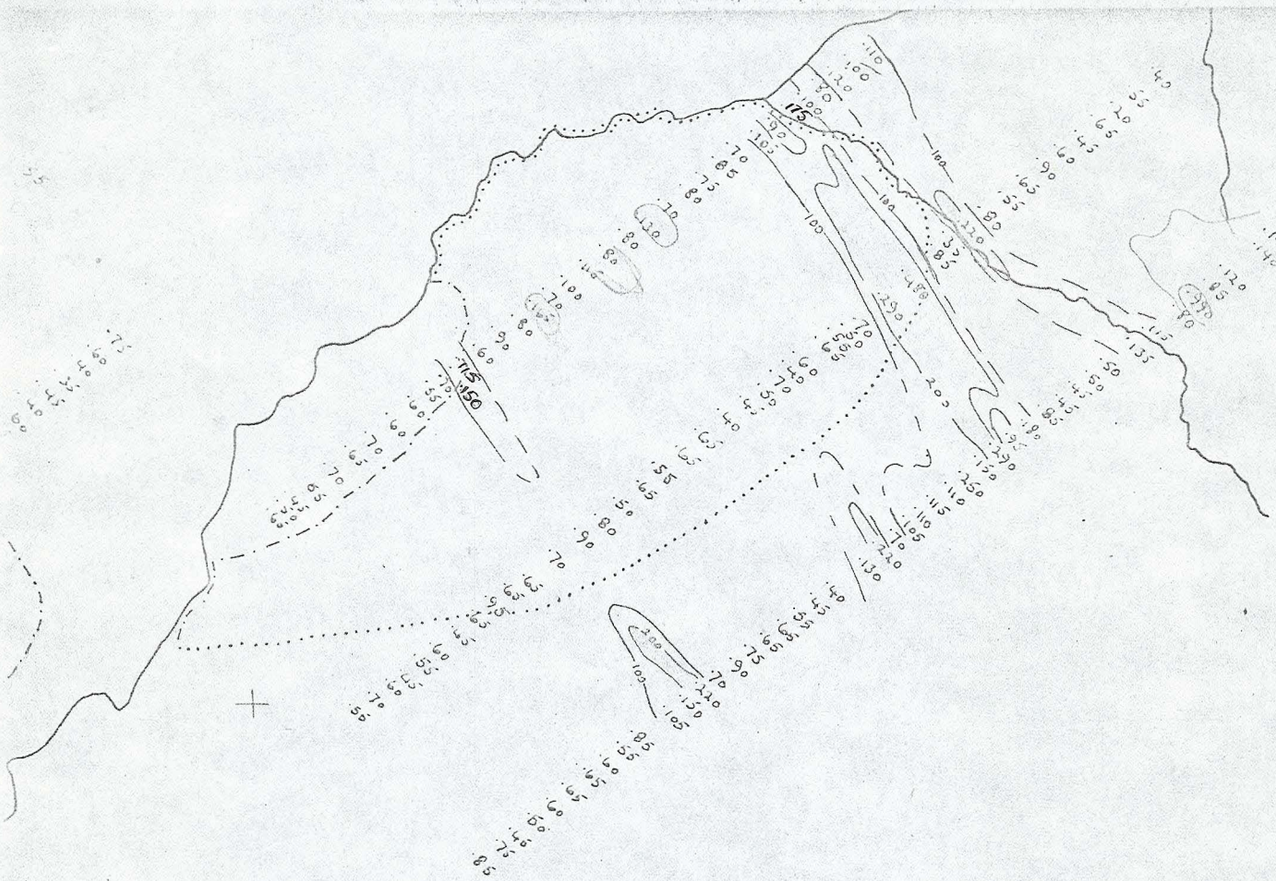
Scale: 6 inches to 1 mile.






72
73
74


N
71
72
36
35
34
33



Ordnance Survey Map Nos.

SH 73 NW	SH 73 NE
SH 73 SW	SH 73 SE

N

NORANDA EXPLORATION (UK) LIMITED

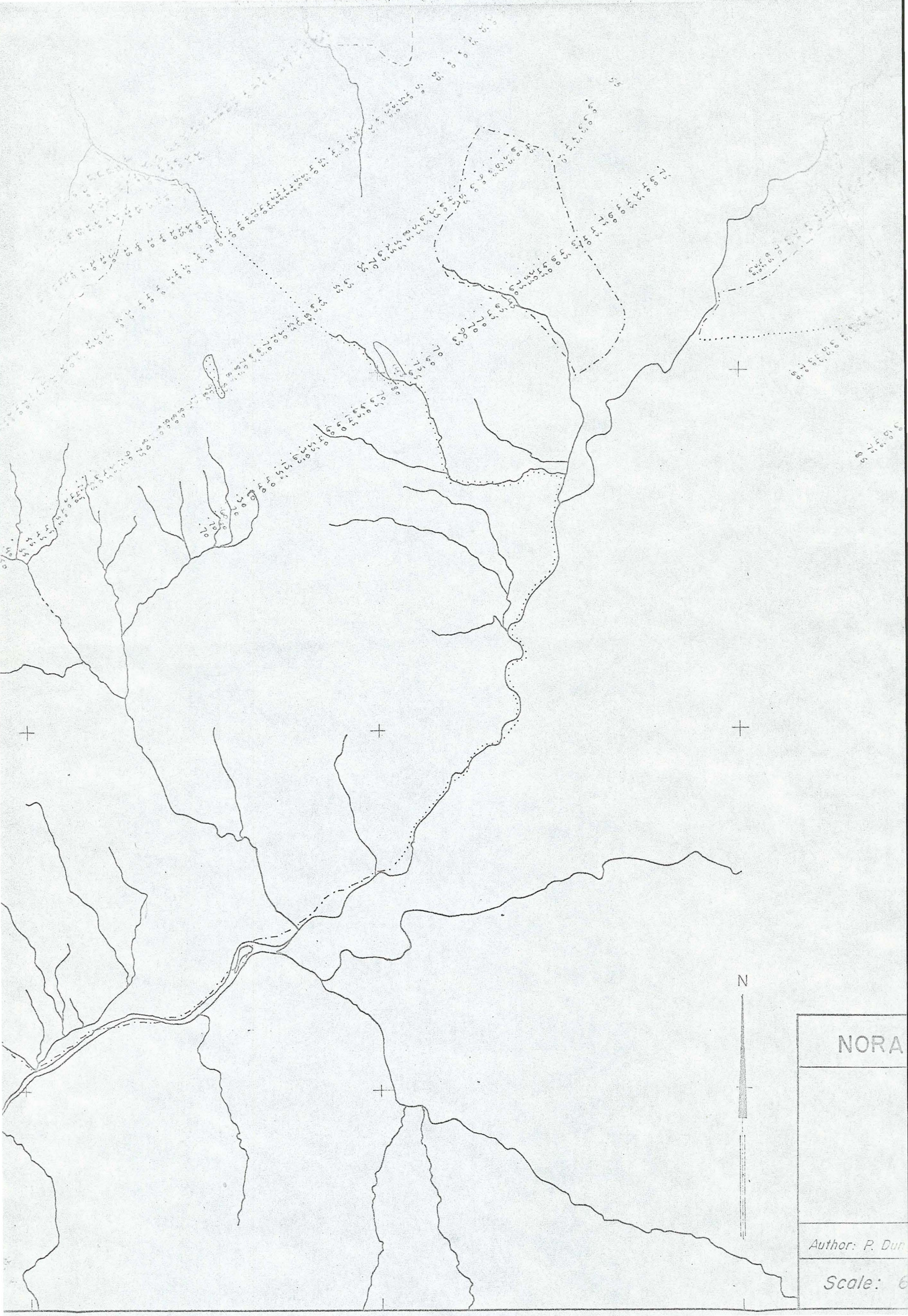
PROJECT 1688

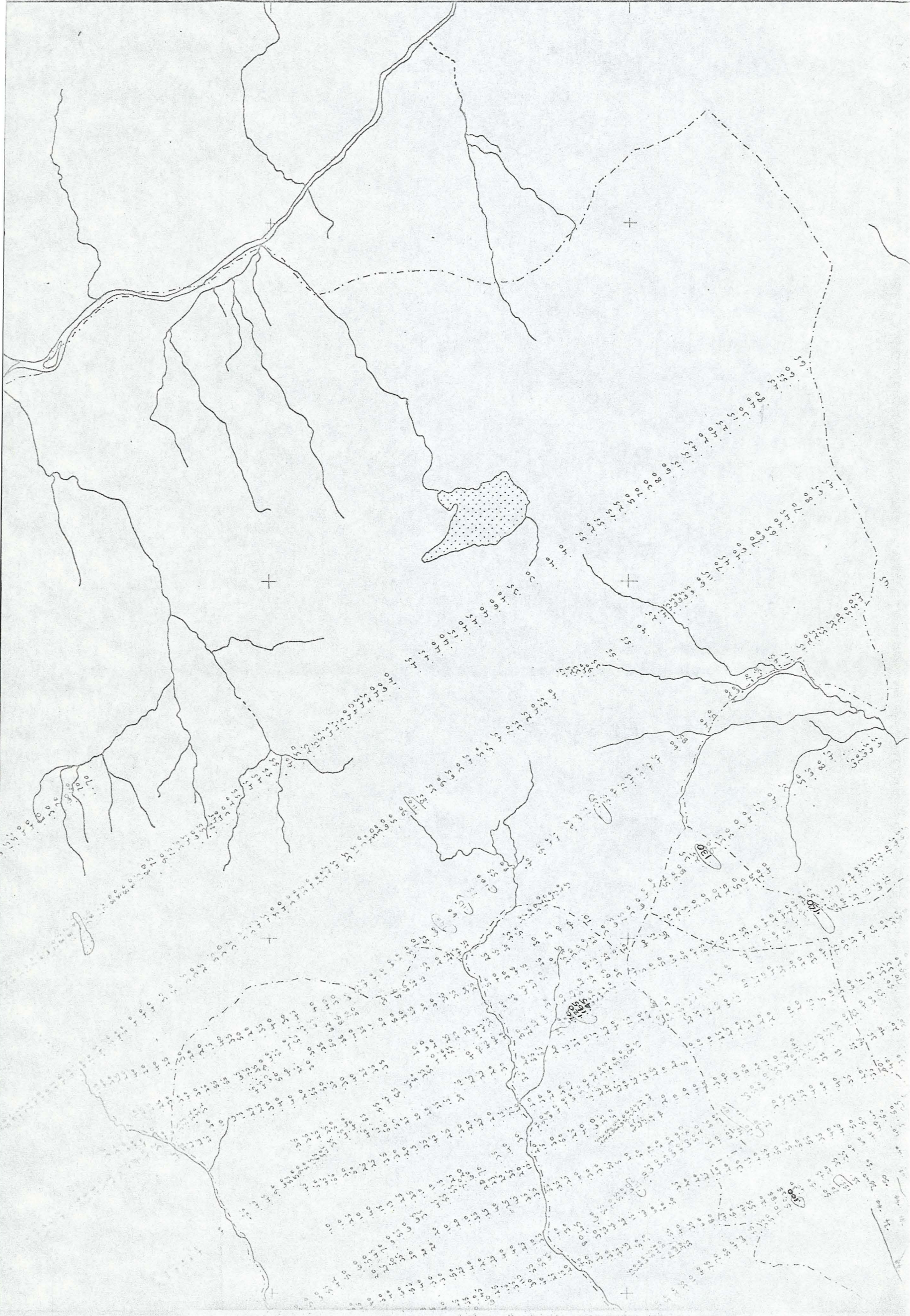
South Prysor, North Wales.

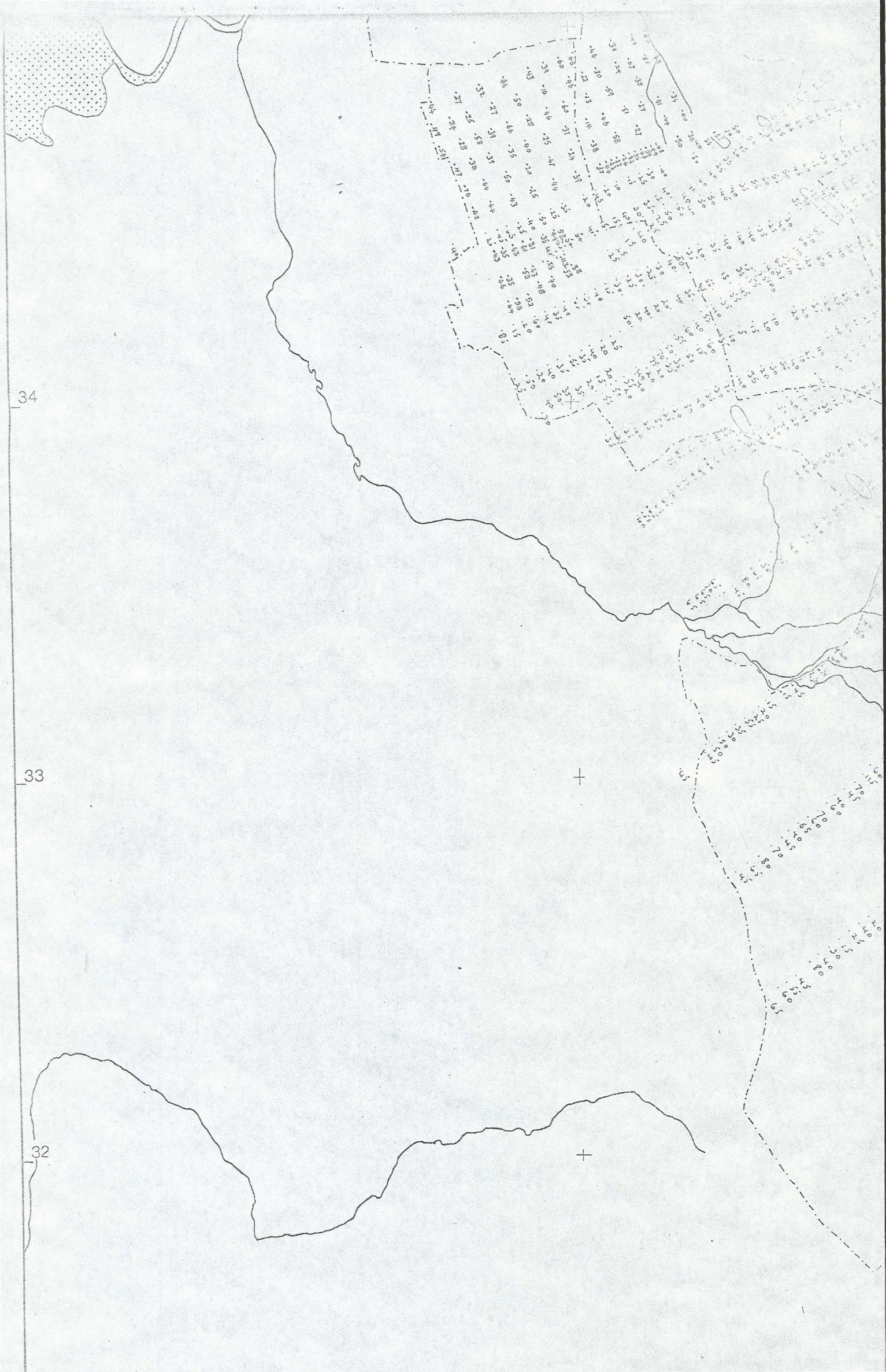
SOIL GEOCHEMISTRY

Pb. in p.p.m.

Author: P. Dungate	Date of work:	Drawn: P.D. Date: 8·1972
Scale: 6 inches to 1 mile.		Revised: Fig 3


N
NORA
Author: P. Dun
Scale: 6




34
33
32

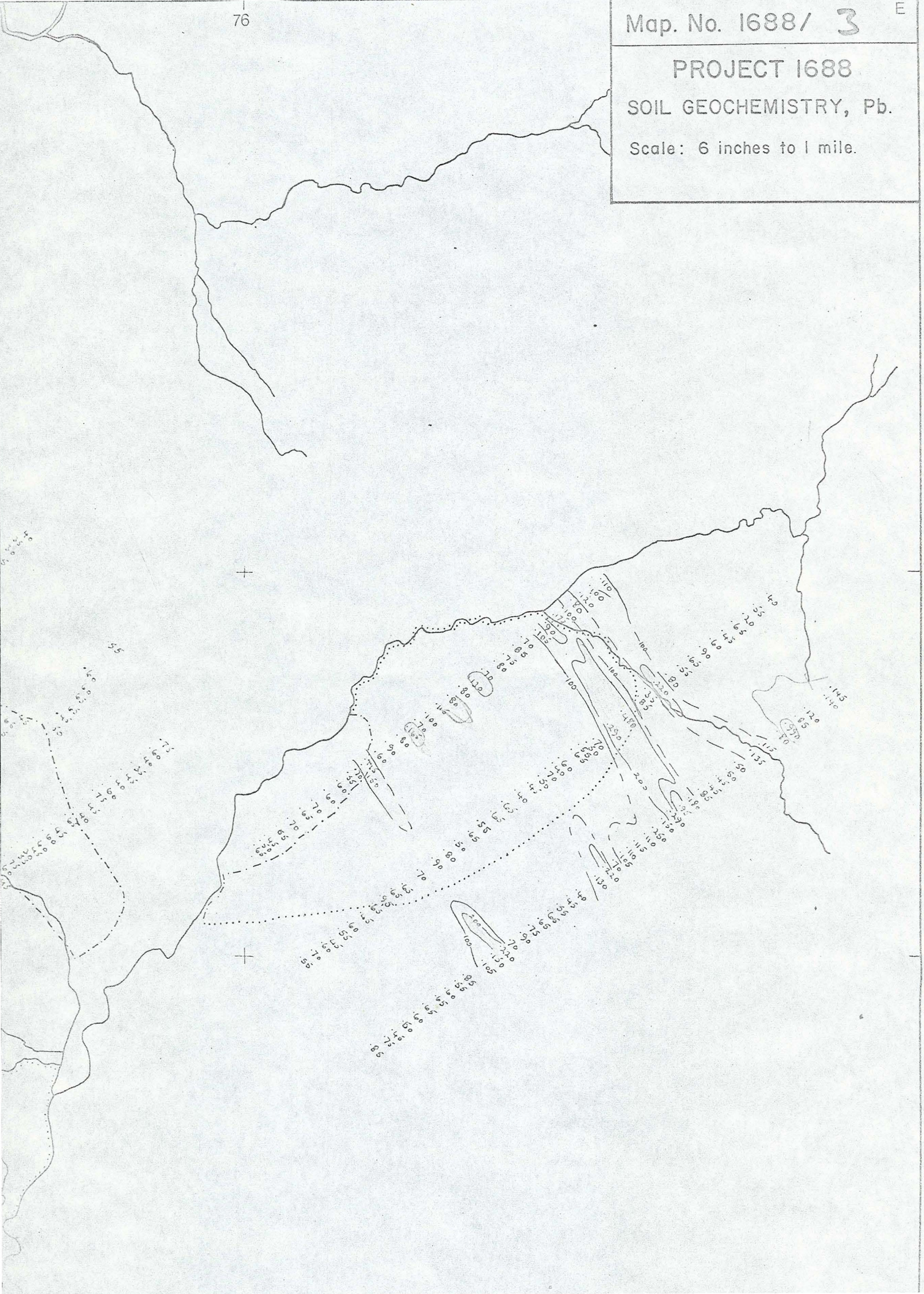
Map. No. 1688/ 3

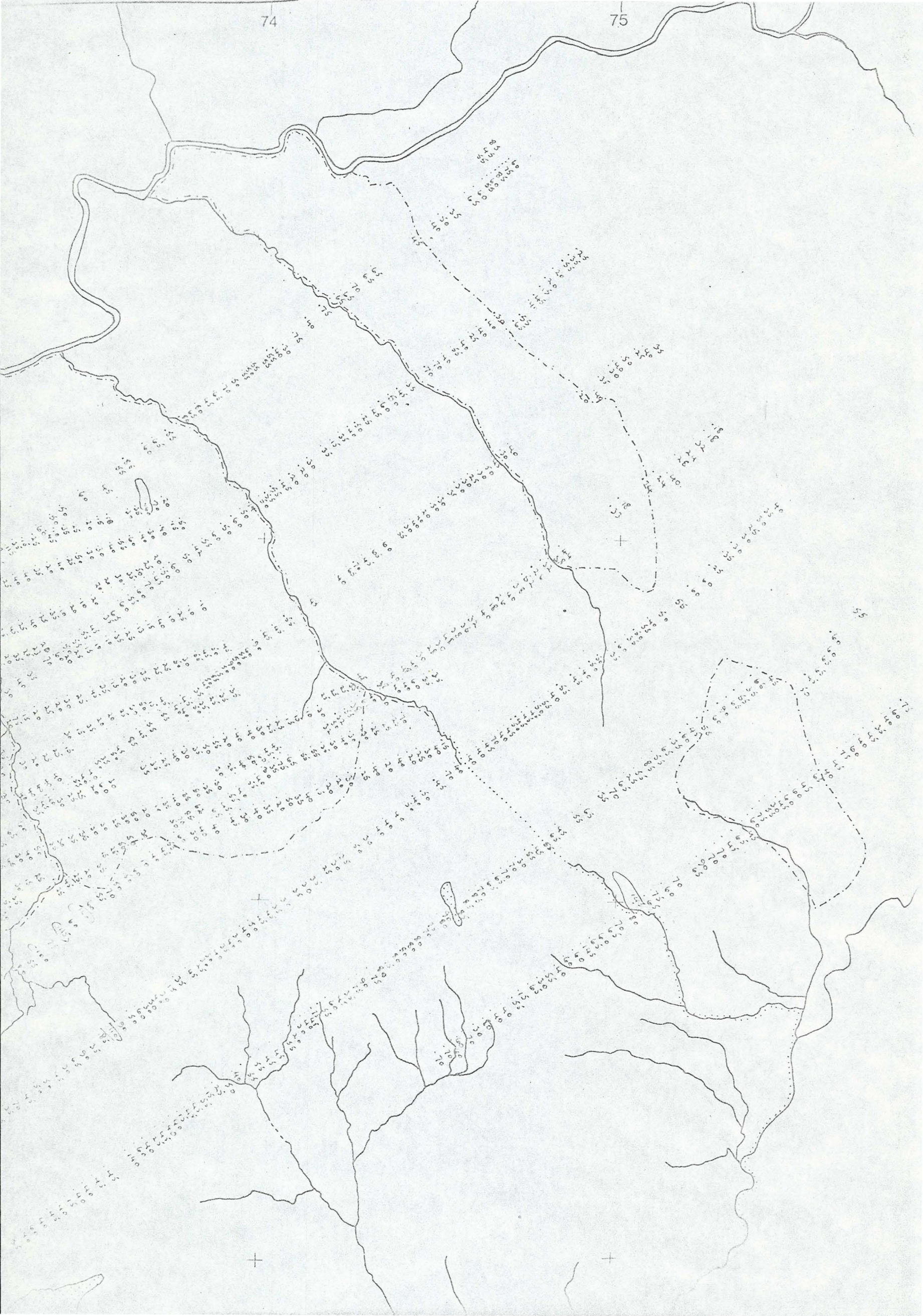
E

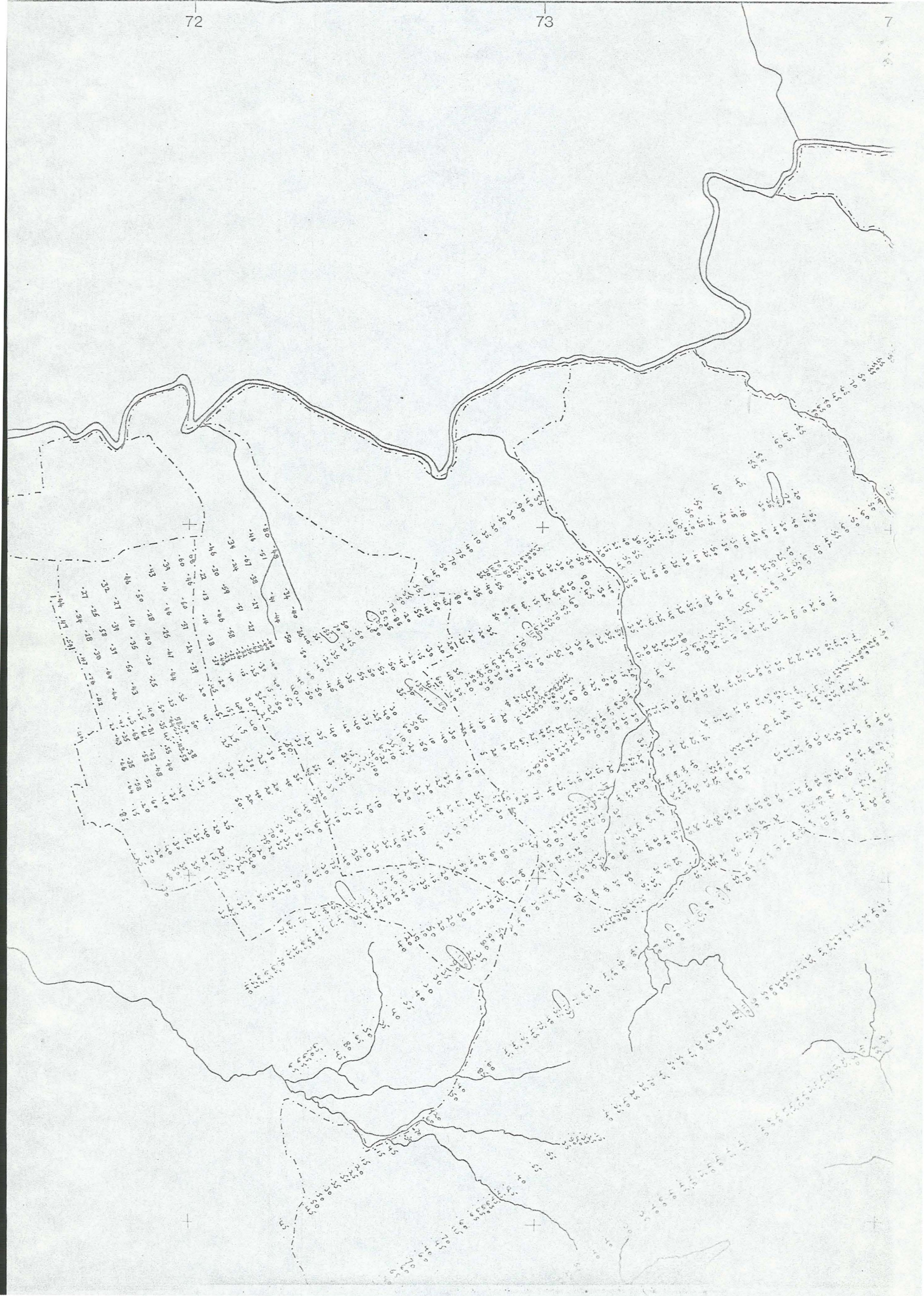
PROJECT 1688

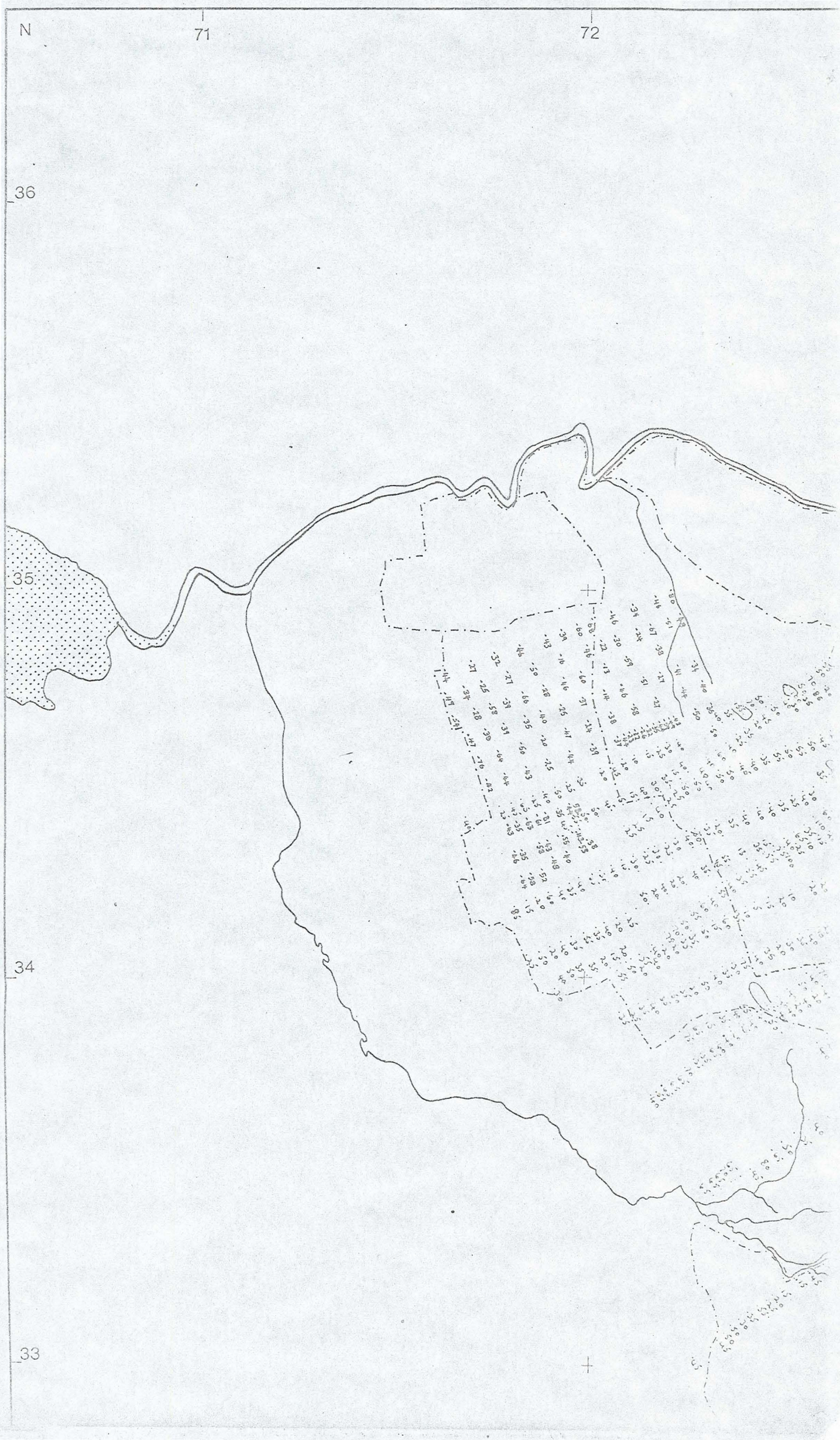
SOIL GEOCHEMISTRY, Pb.

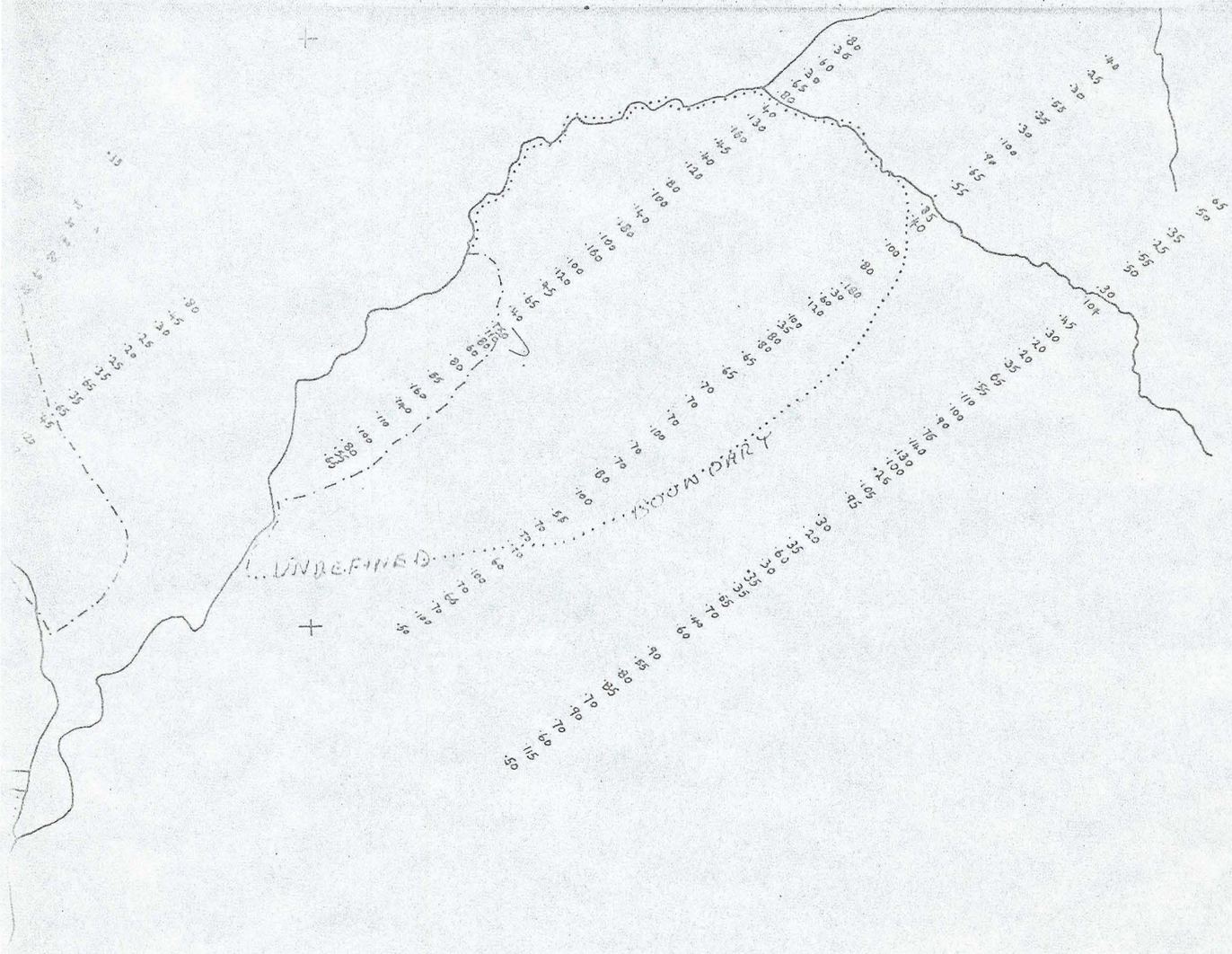
Scale: 6 inches to 1 mile.




74
75




N
71
72
36
35
34
33



Ordnance Survey 6" Sheet Nos.

SH 73 NW	SH 73 NE
SH 73 SW	SH 73 SE

N

NORANDA EXPLORATION (UK) LIMITED

PROJECT 1688

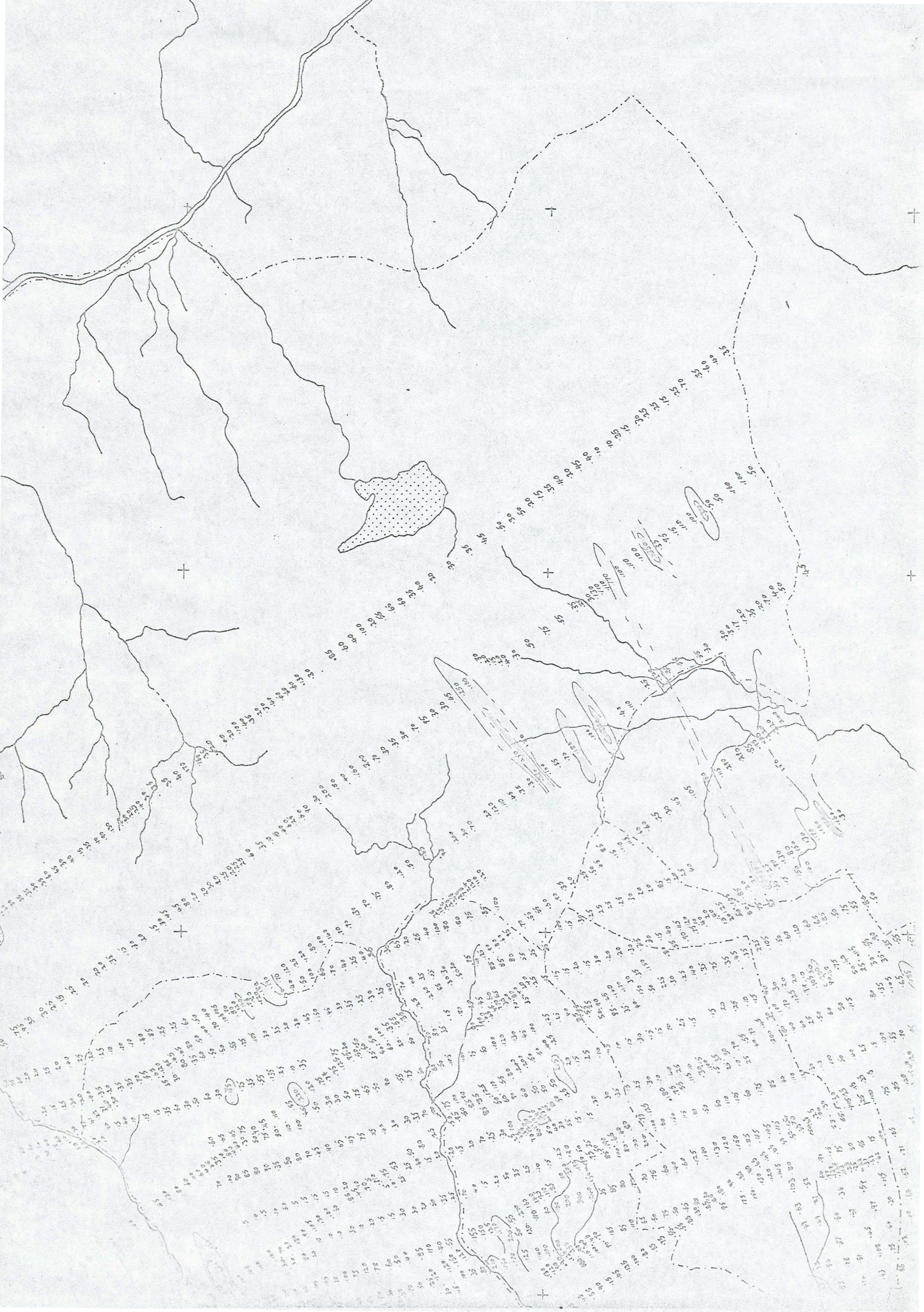
South Prysor, North Wales.

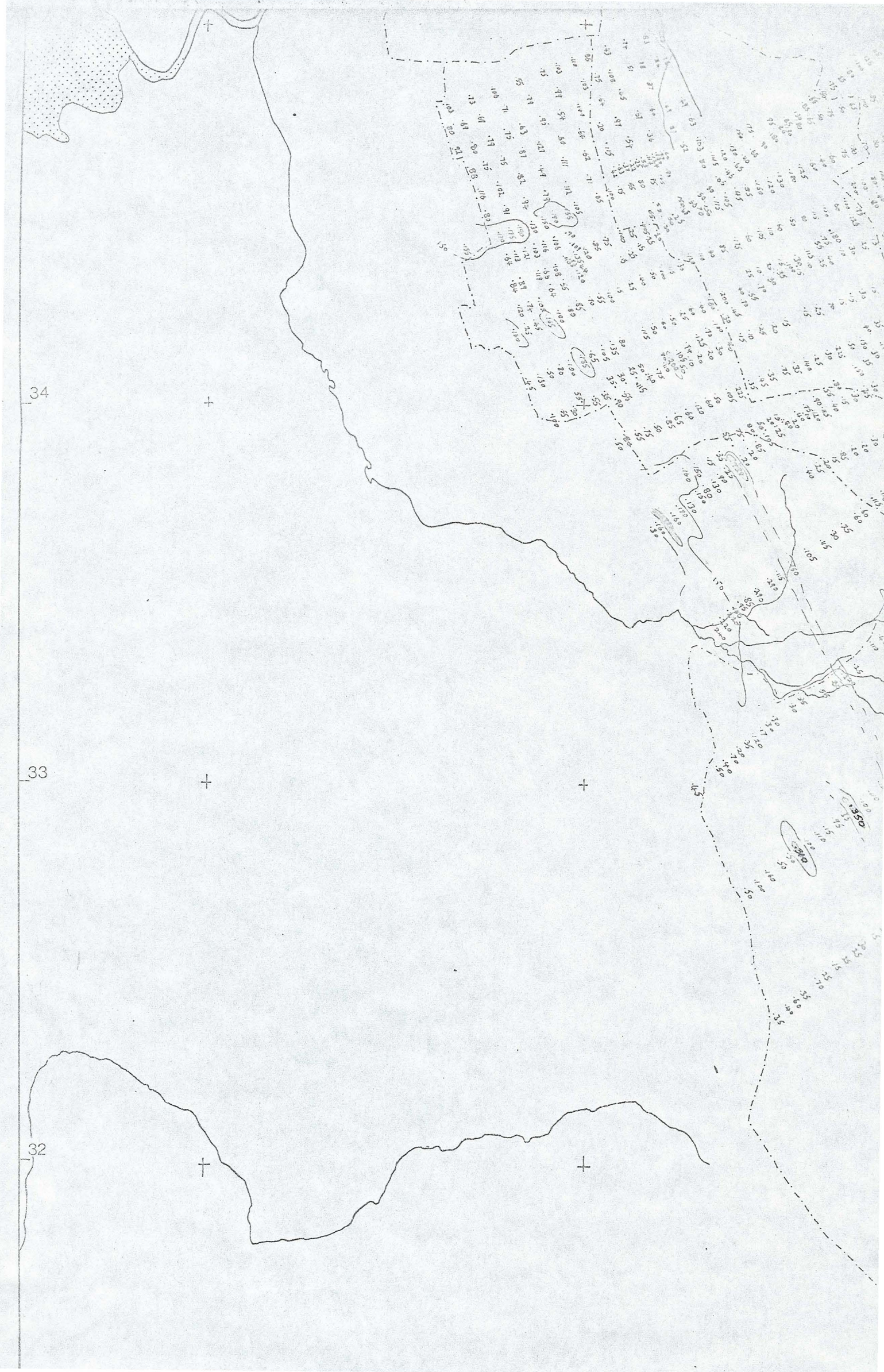
SOIL GEOCHEMISTRY

Zn. in p.p.m.

Author: P. Dungte:	Date of work:	Drawn: P.D. Date: 8-1972
Scale: 6 inches to 1 mile.		Revised:

N
NORA
Author: R. Du
Scale: 6




34
33
32

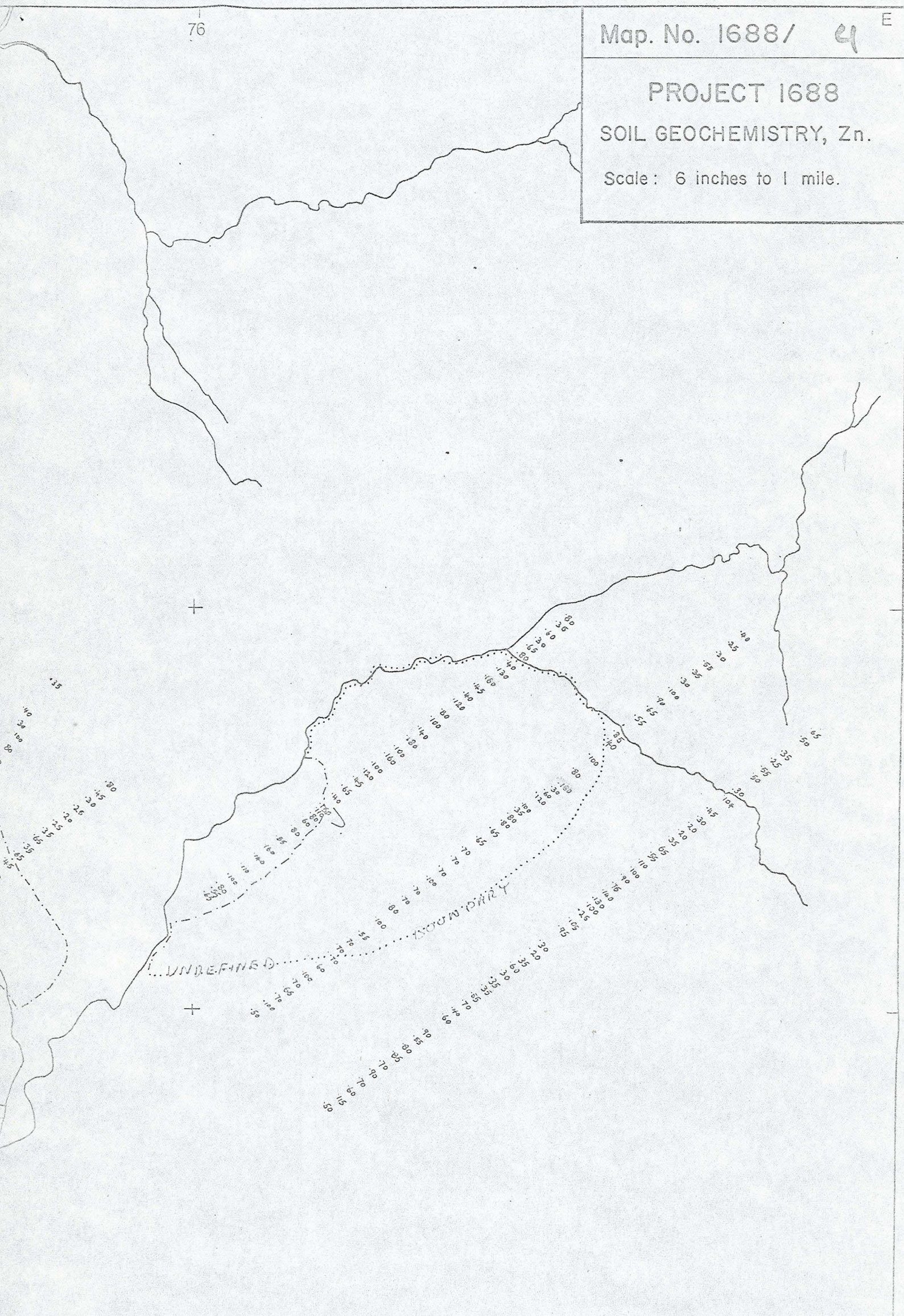
Map. No. 1688/ 4

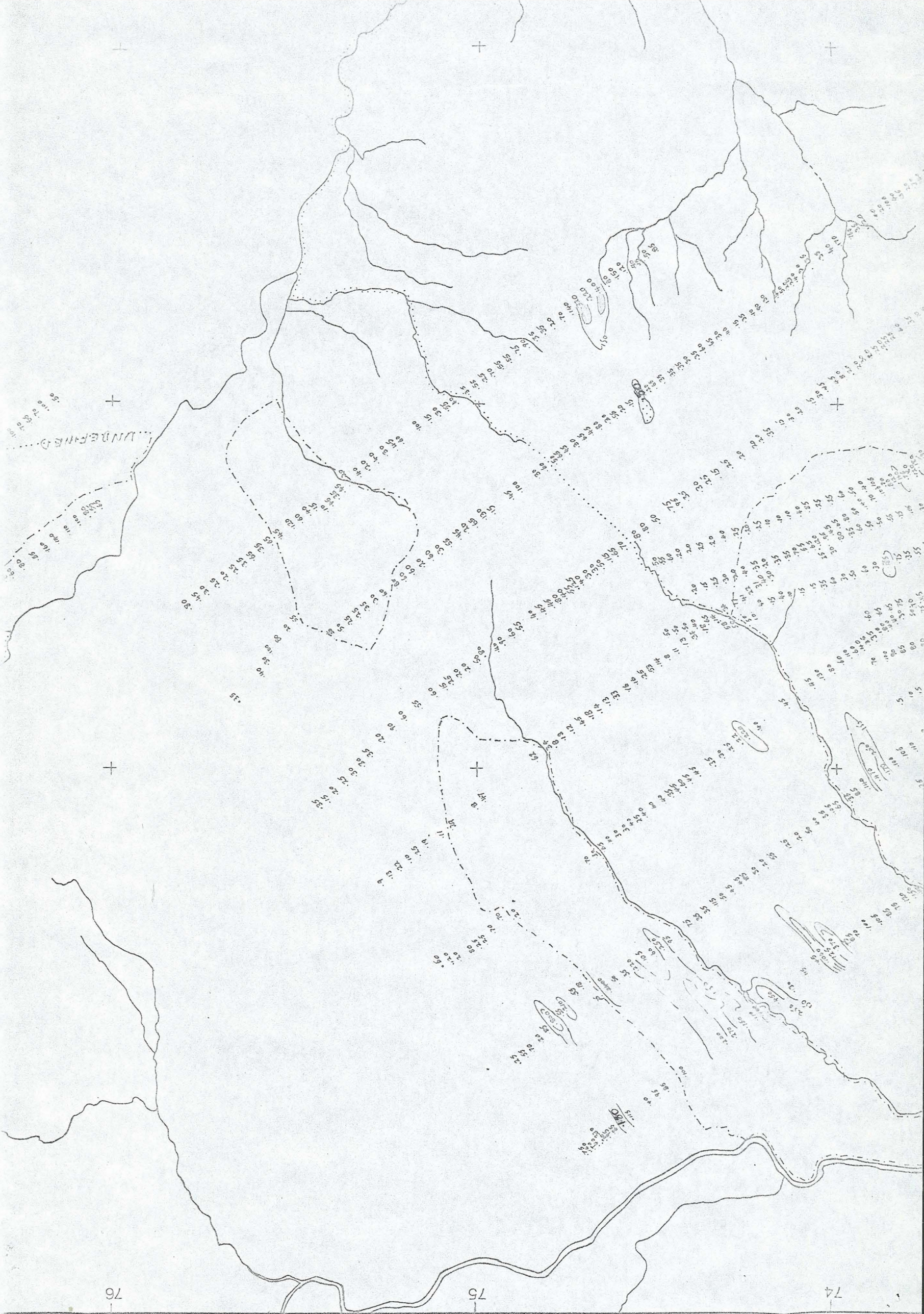
E

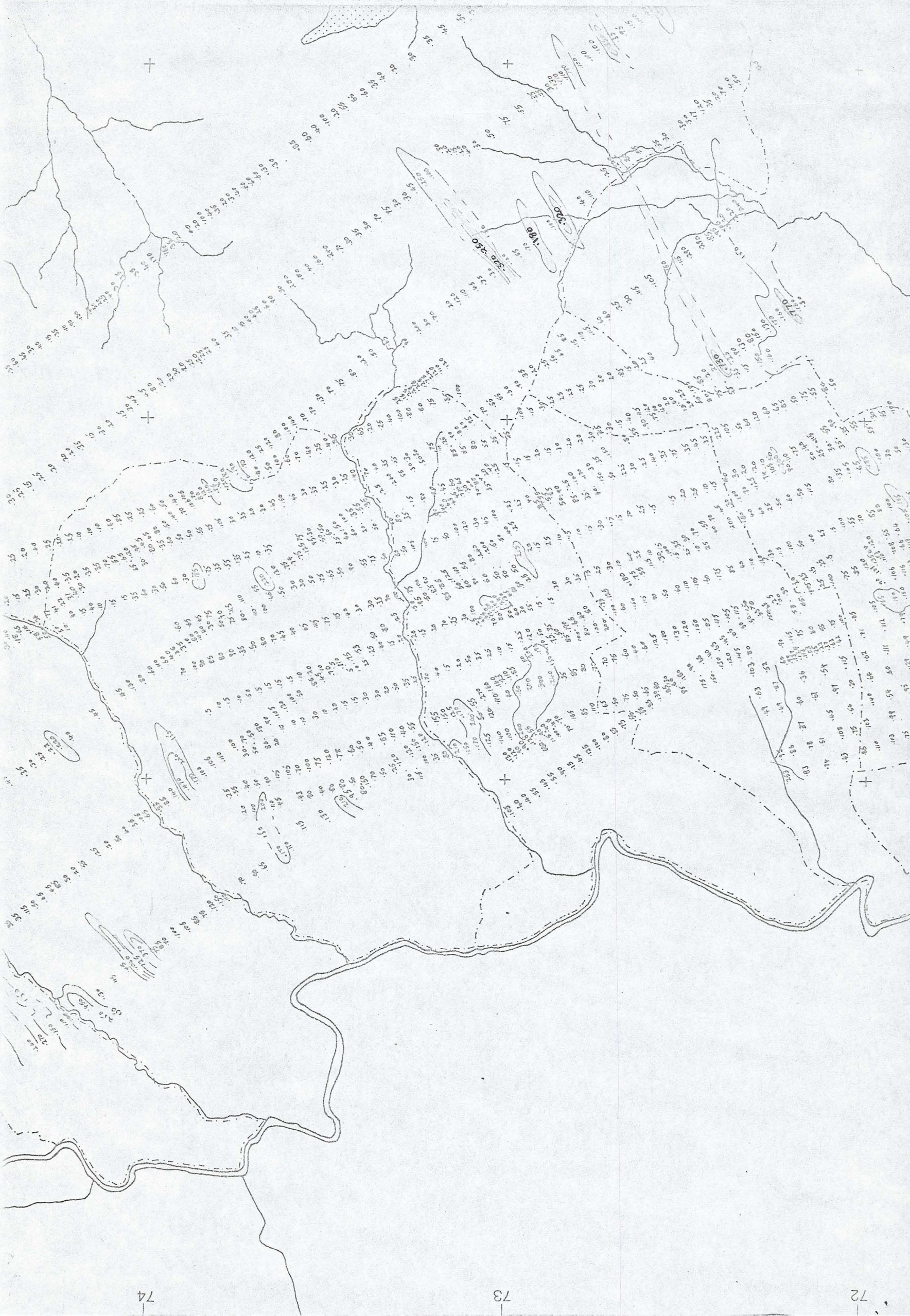
PROJECT 1688

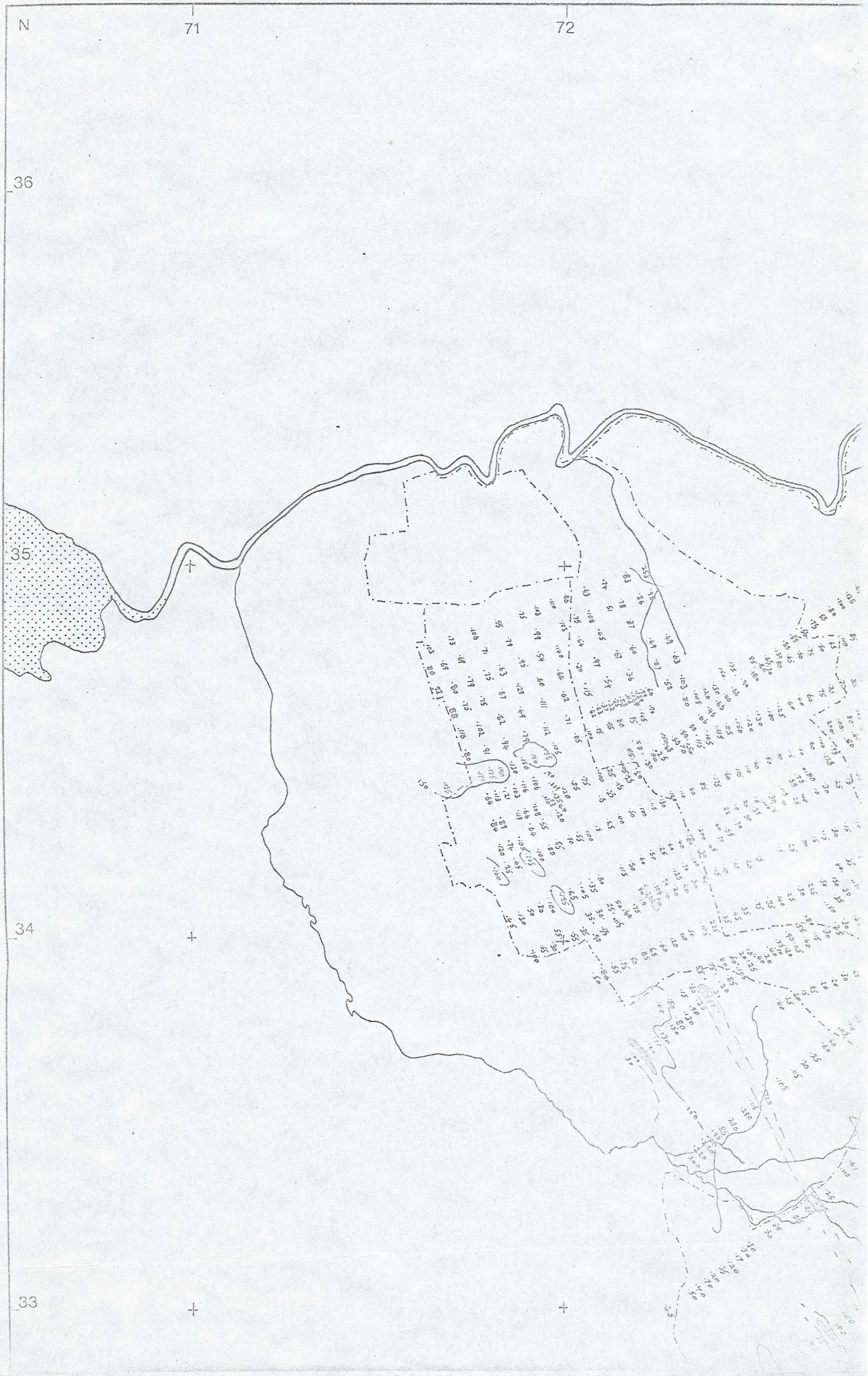
SOIL GEOCHEMISTRY, Zn.

Scale: 6 inches to 1 mile.





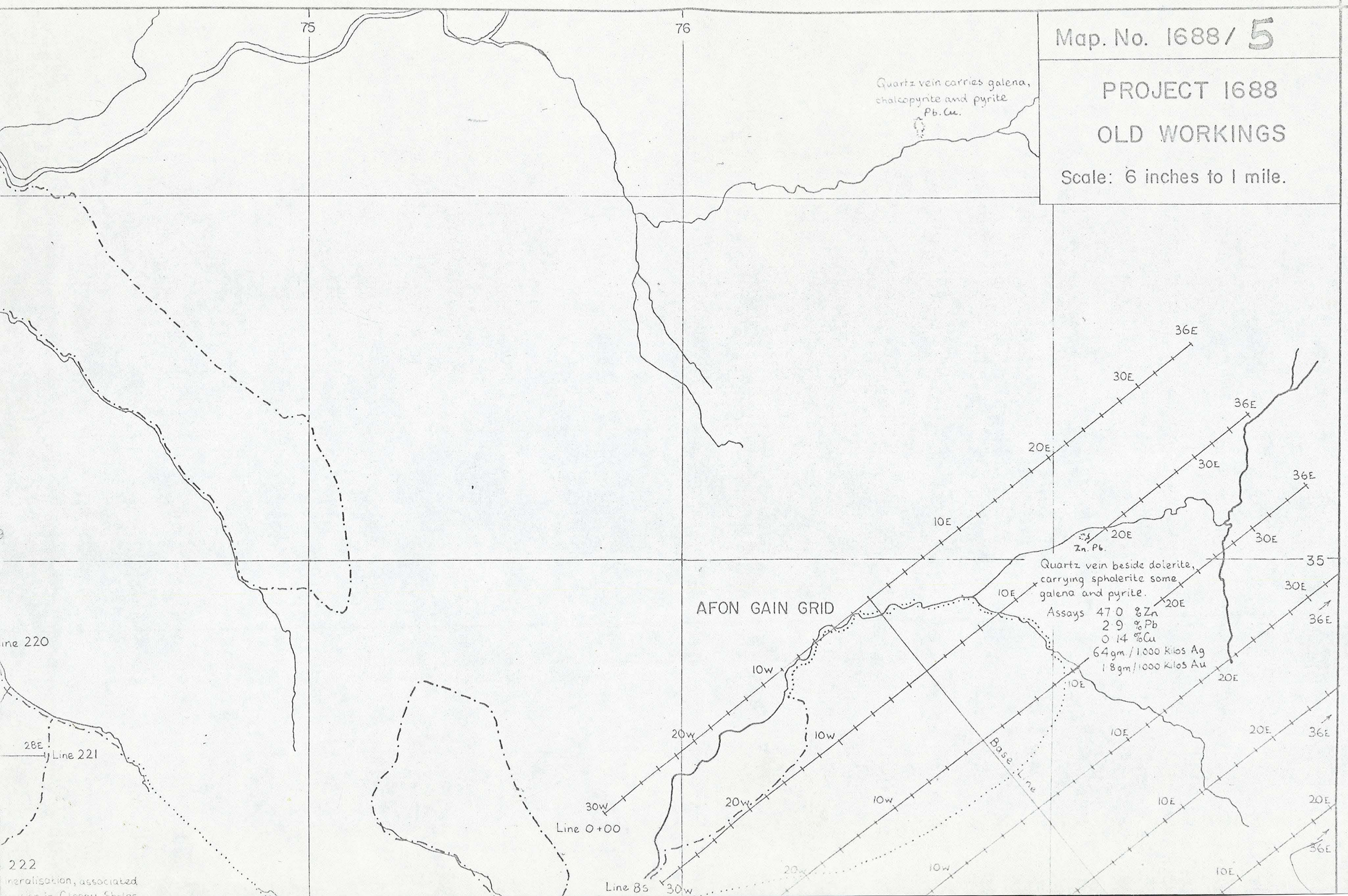


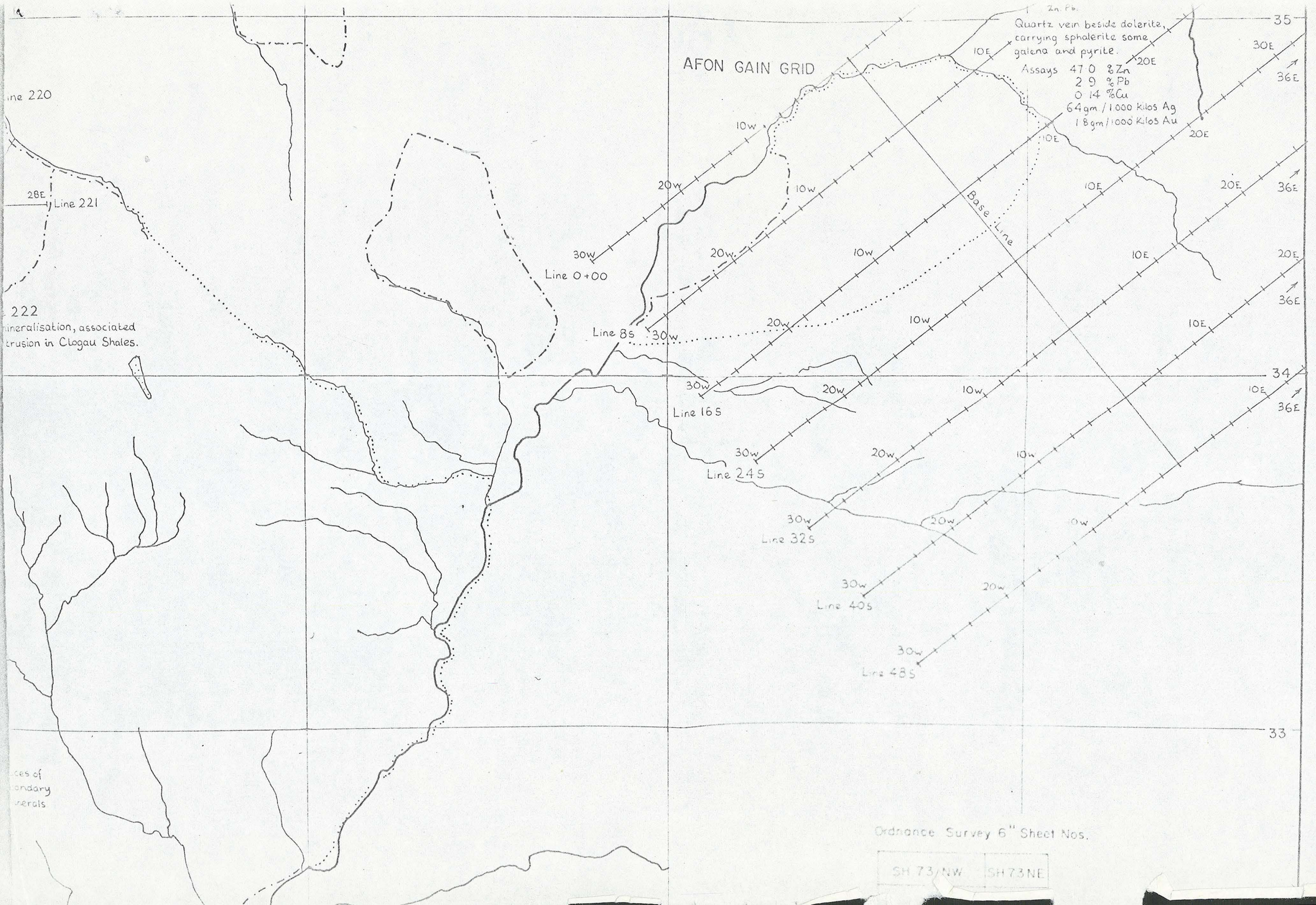

N
71
72
36
35
34
33

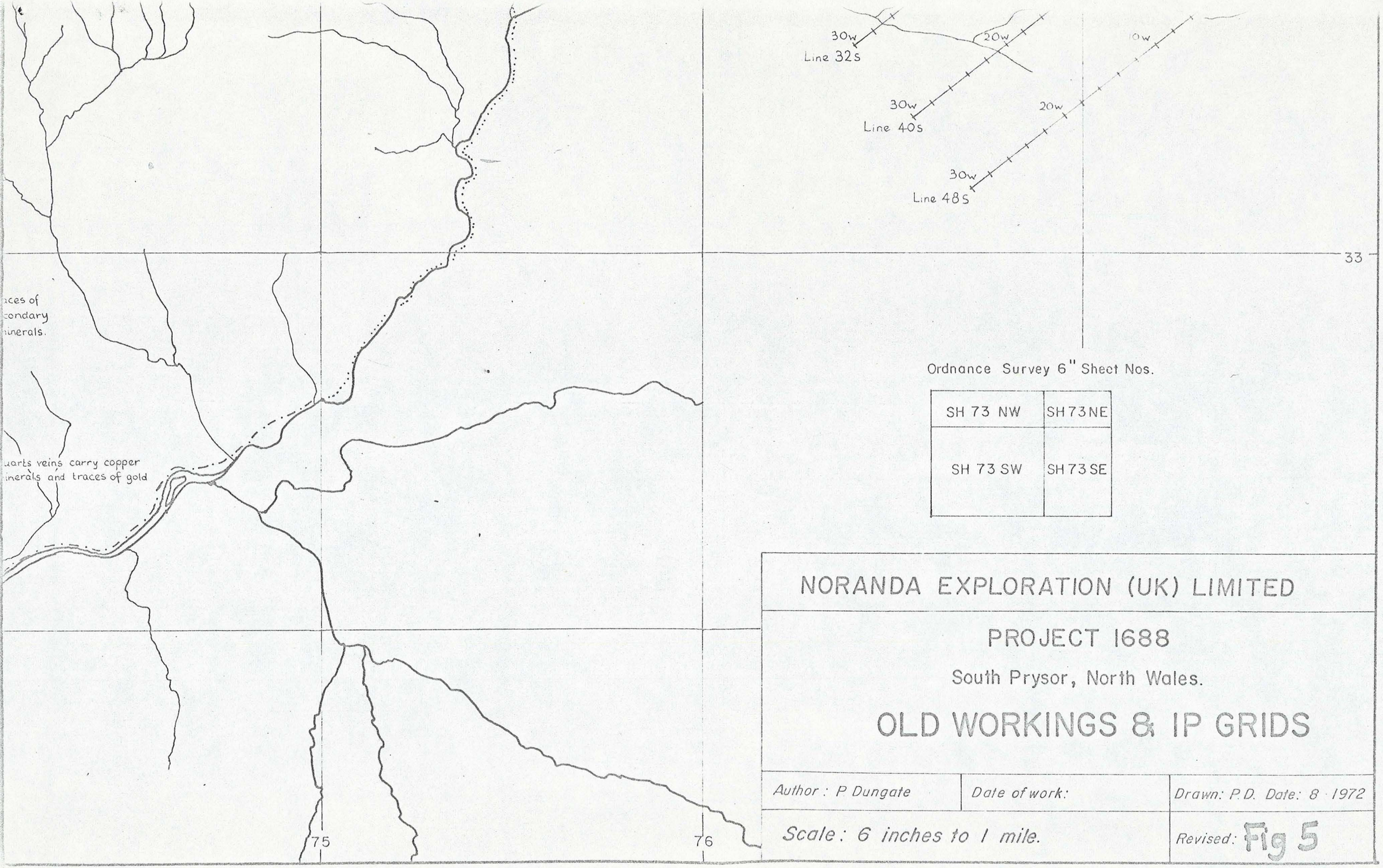
Map. No. 1688/ 5

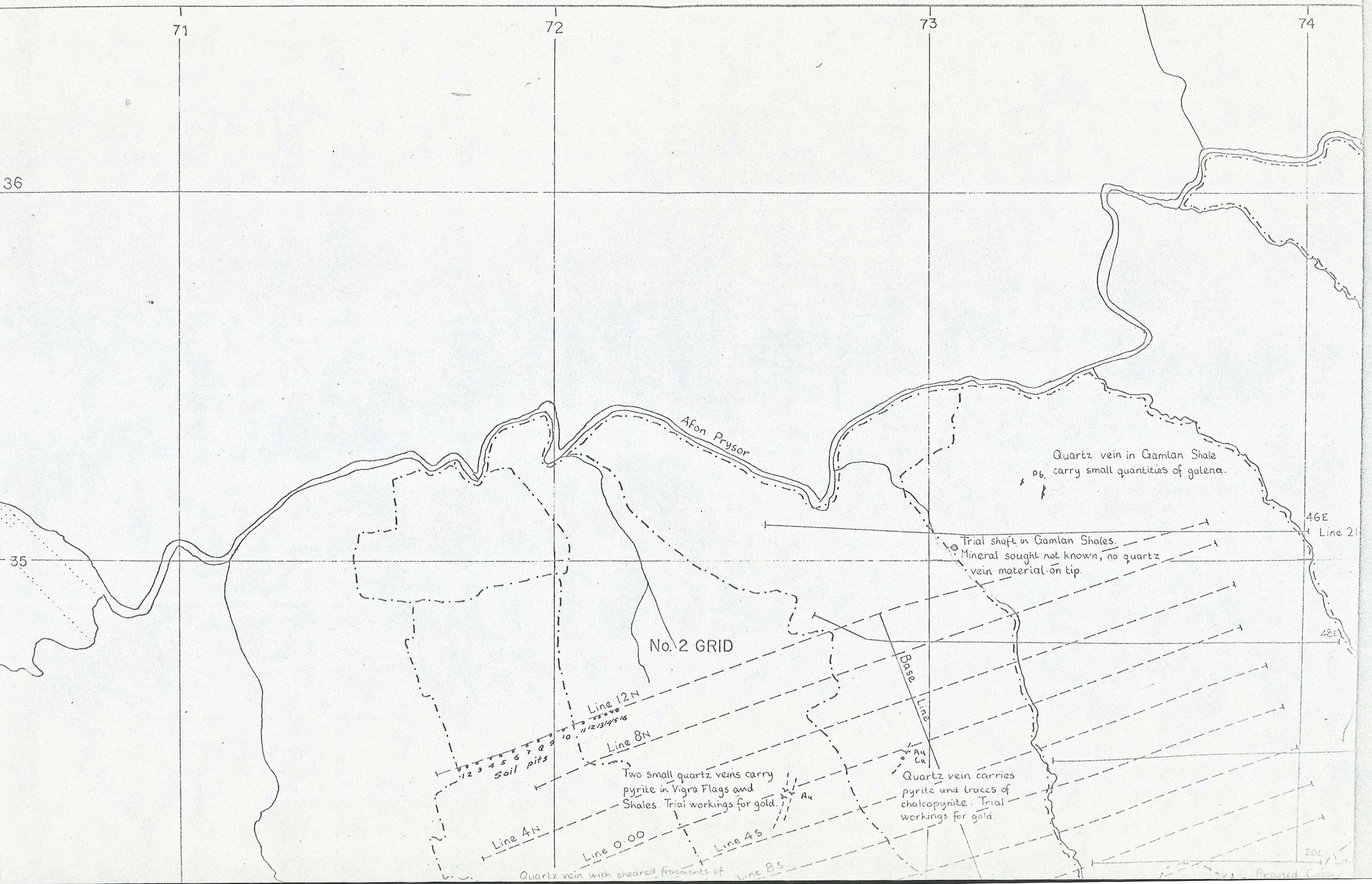
PROJECT 1688
OLD WORKINGS

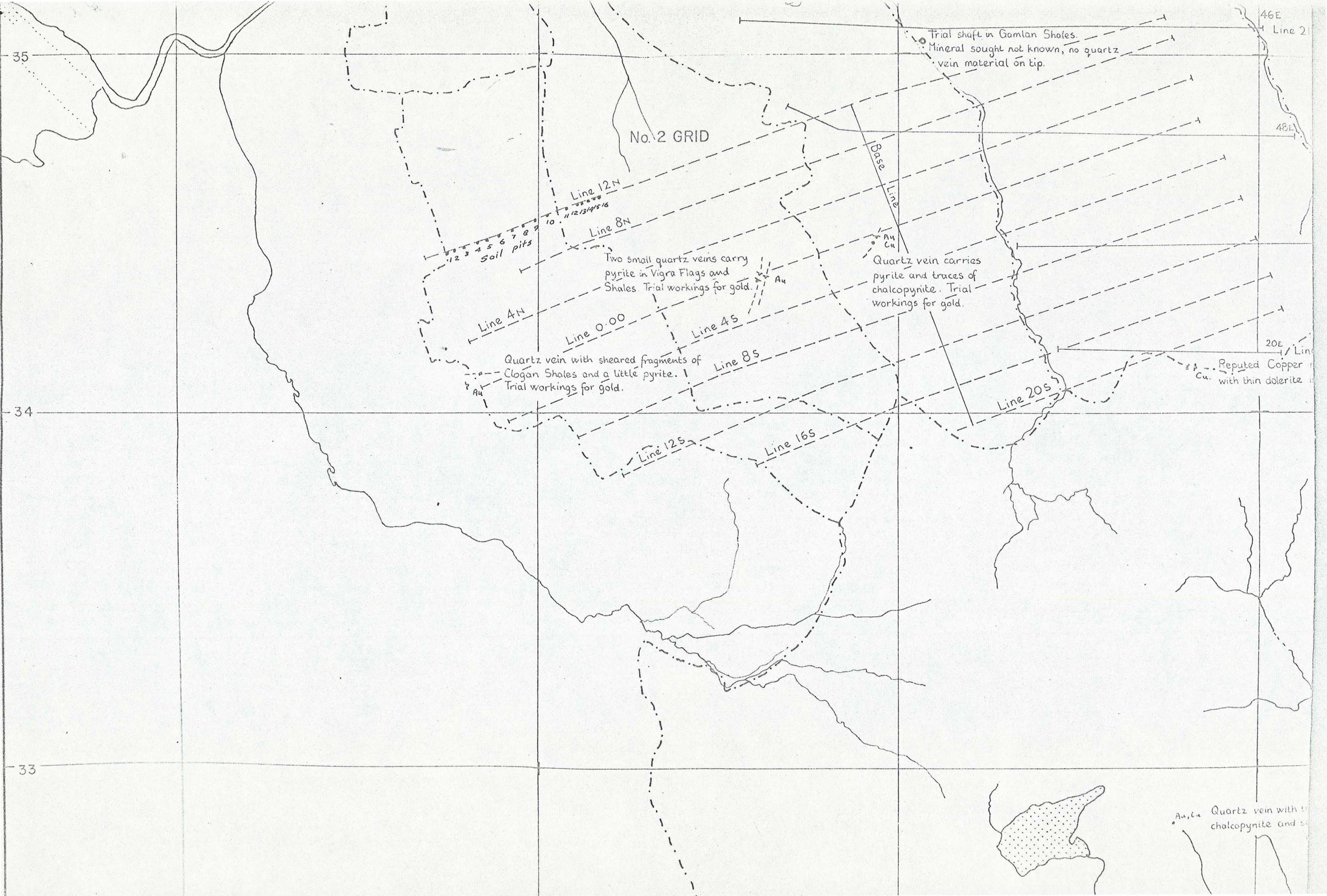
Scale: 6 inches to 1 mile.

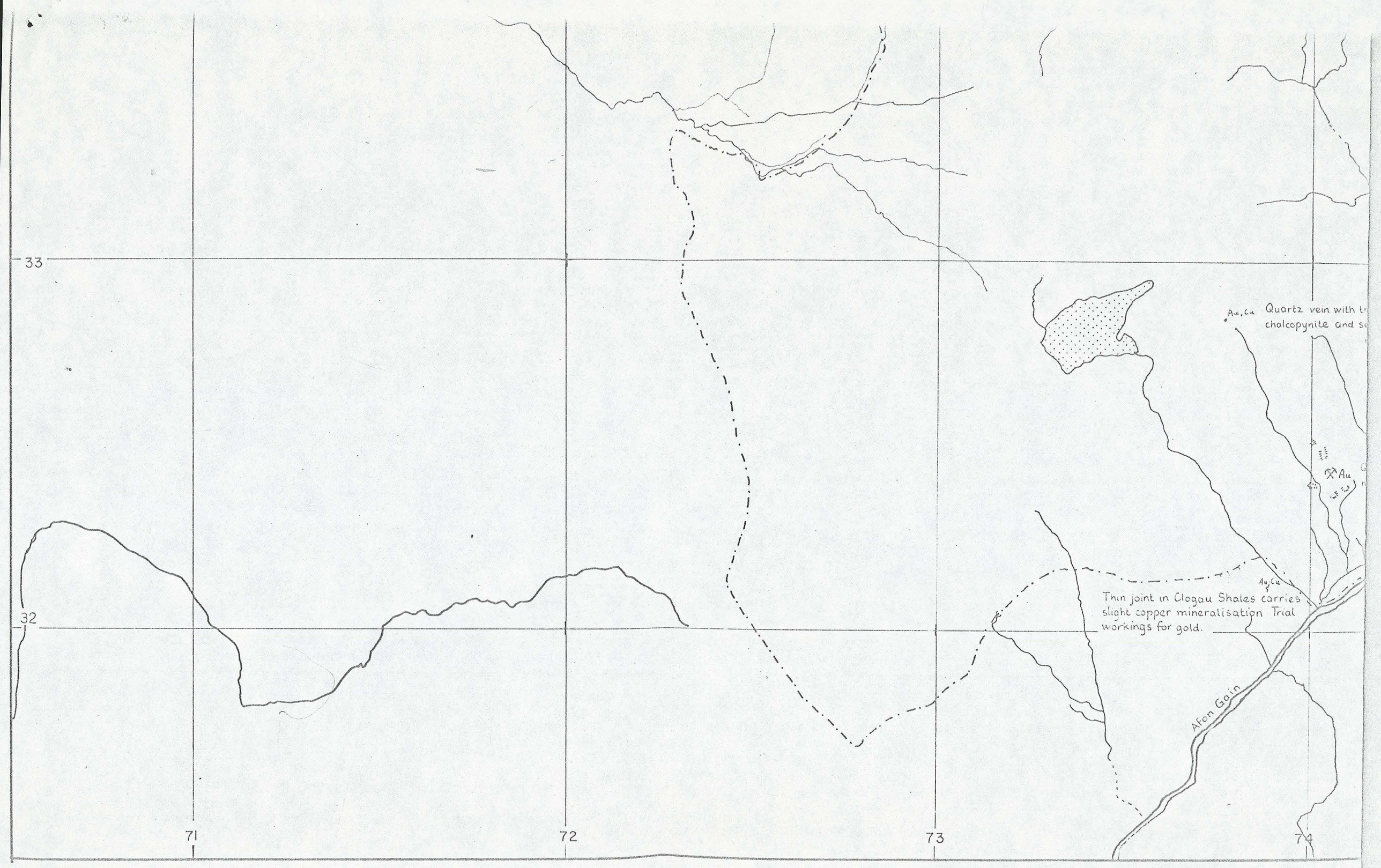



AFON GAIN GRID
Zn. Pb.
Quartz vein beside dolerite, carrying sphalerite some galena and pyrite.
Assays 47 0 %Zn
2 9 %Pb
0 14 %Cu
64gm/1000 Kilos Ag
1 8gm/1000 Kilos Au
ine 220
28E
Line 221
222
ineralisation, associated
trusion in Clogau Shales.
ces of
ondary
nerals
Line 0+00
Line 8s
Line 16s
Line 24s
Line 32s
Line 40s
Line 48s
Base Line
35
34
33
30E
36E
20E
10E
10W
20W
30W
Ordnance Survey 6" Sheet Nos.
SH 73 NW
SH 73 NE


30w
Line 32s
20w
10w
30w
Line 40s
20w
30w
Line 48s
33
ces of
condary
inerals.
uarts veins carry copper
inerals and traces of gold
75
76
Ordnance Survey 6" Sheet Nos.
SH 73 NW
SH 73 NE
SH 73 SW
SH 73 SE
NORANDA EXPLORATION (UK) LIMITED
PROJECT 1688
South Prysor, North Wales.
OLD WORKINGS & IP GRIDS
Author : P Dungate
Date of work:
Drawn: P.D. Date: 8 · 1972
Scale : 6 inches to 1 mile.
Revised:
Fig 5


71
72
73
74
36
35
Afon Prysor
Quartz vein in Gamlan Shale
Pb.
carry small quantities of galena.
46E
Line 21
Trial shaft in Gamlan Shales.
Mineral sought not known, no quartz
vein material on tip.
48E
No. 2 GRID
Base Line
Line 12N
Line 8N
Line 4N
Line 0.00
Line 4S
Line 8S
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
Soil pits
Au
Cu
Au
Two small quartz veins carry
pyrite in Vigra Flags and
Shales. Trial workings for gold.
Quartz vein carries
pyrite and traces of
chalcopyrite. Trial
workings for gold.
Quartz vein with sheared fragments of


No. 2 GRID
Trial shaft in Gamlan Shales. Mineral sought not known, no quartz vein material on tip.
46E
Line 21
48E
20E
Base Line
Line 12N
Line 8N
Line 4N
Line 0.00
Line 4S
Line 8S
Line 12S
Line 16S
Line 20S
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
Soil pits
Two small quartz veins carry pyrite in Vigra Flags and Shales. Trial workings for gold.
Au
Au
Cu
Quartz vein carries pyrite and traces of chalcopyrite. Trial workings for gold.
Quartz vein with sheared fragments of Clogan Shales and a little pyrite. Trial workings for gold.
Au
Cu
Reputed Copper
with thin dolerite
Au, Cu
Quartz vein with
chalcopynite and
35
34
33


33
32
71
72
73
74
Au, Cu
Quartz vein with tr
chalcopyrite and s
Au
Au, Cu
Thin joint in Clogau Shales carries
slight copper mineralisation Trial
workings for gold.
Afon Gain

Vertical: 1 inch = 2000 ohm-meters
and 1 inch = 50 millisecs

Horizontal: 1 inch = 500 feet

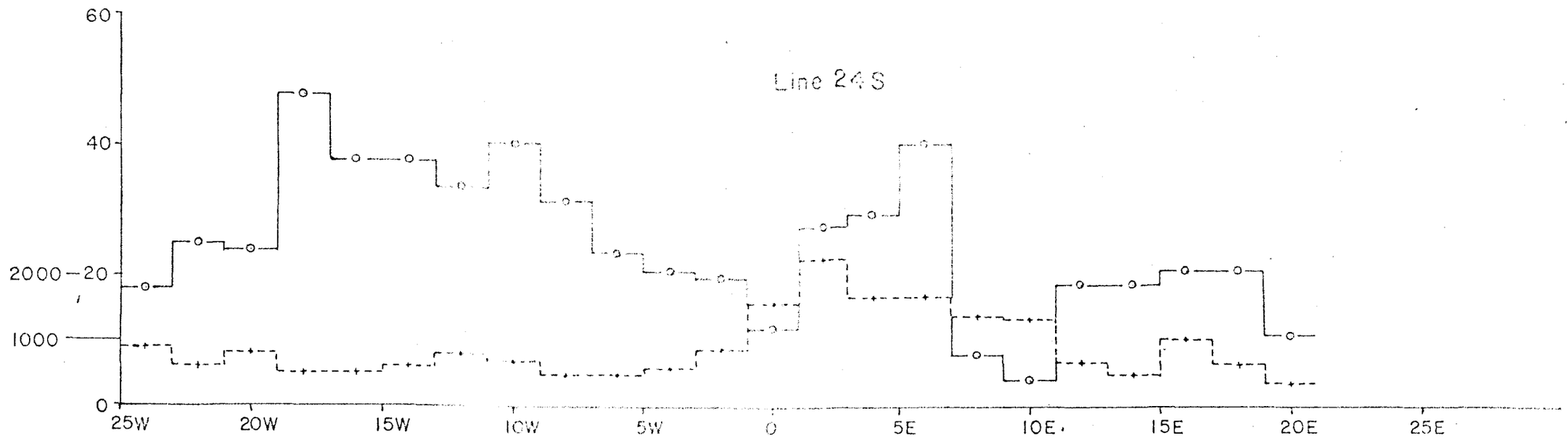
NORANDA EXPLORATION (UK) LIMITED

PROJECT 1688
SOUTH PRYSOR - NORTH WALES
AFON GAIN UCHAF AREA

Induced Polarization and Resistivity Survey.

Fig 6

Author: F. Buckley Ltd.	*Date of work: Nov 1971*	*Drawn: H.F. Date: 1·9·72*



LEGEND

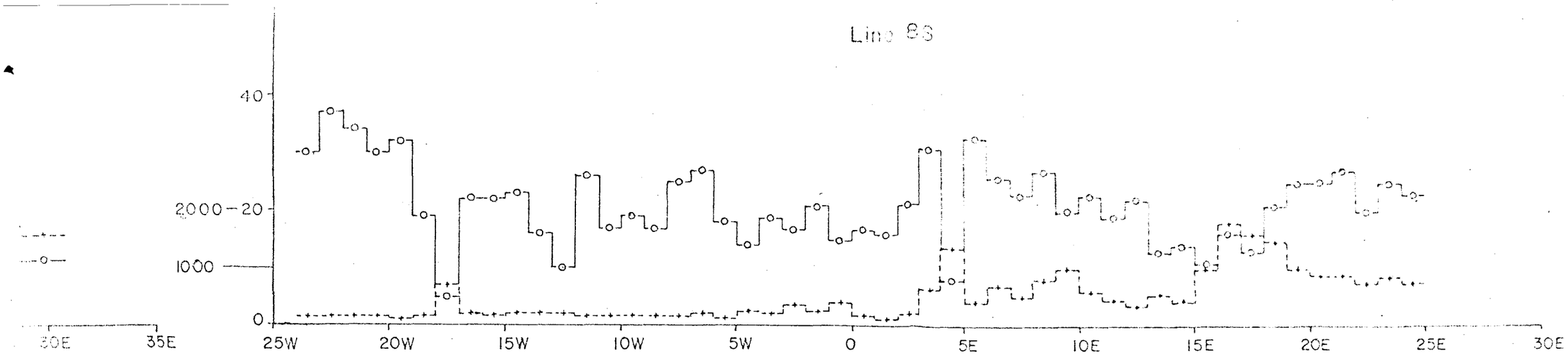
---+--- resistivity in ohm-meters

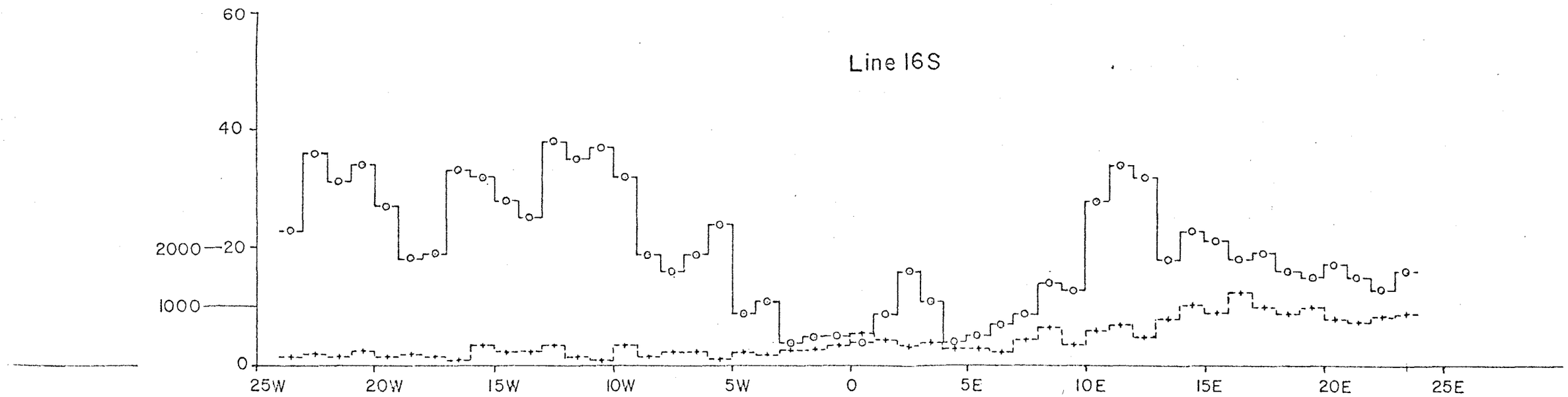
—o— chargeability in millisecs

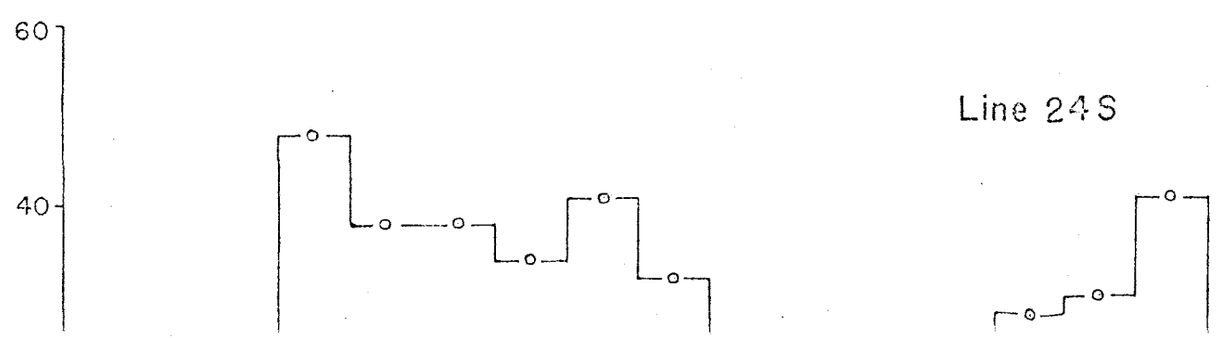
SCALES

Vertical: 1 inch = 2000 ohm-meters
and 1 inch = 20 millisecs

Horizontal: 1 inch = 500 feet

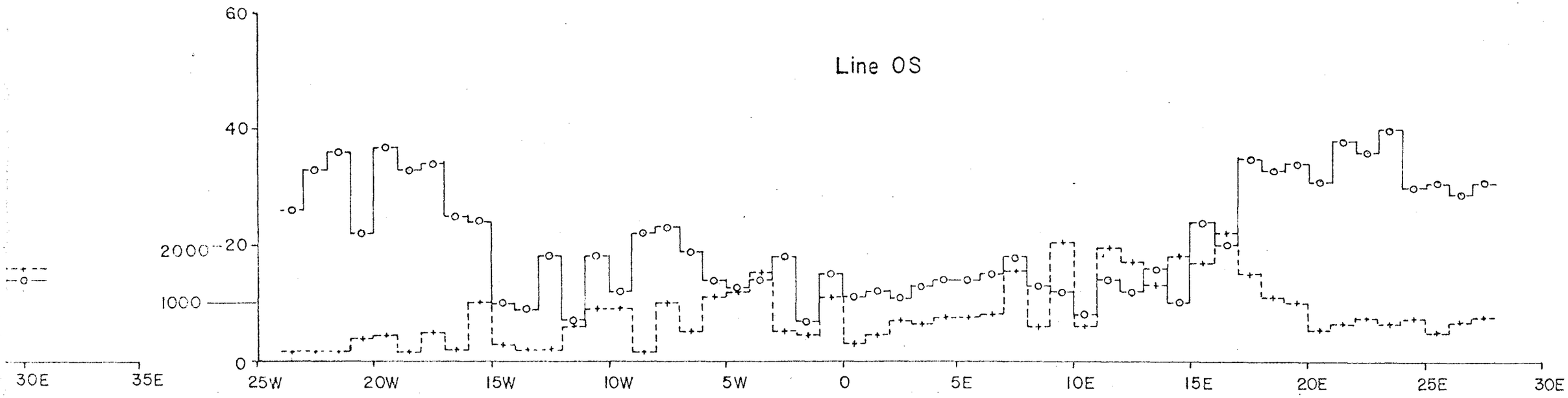

Line 8S
40
2000—20
1000
0
30E
35E
25W
20W
15W
10W
5W
0
5E
10E
15E
20E
25E
30E

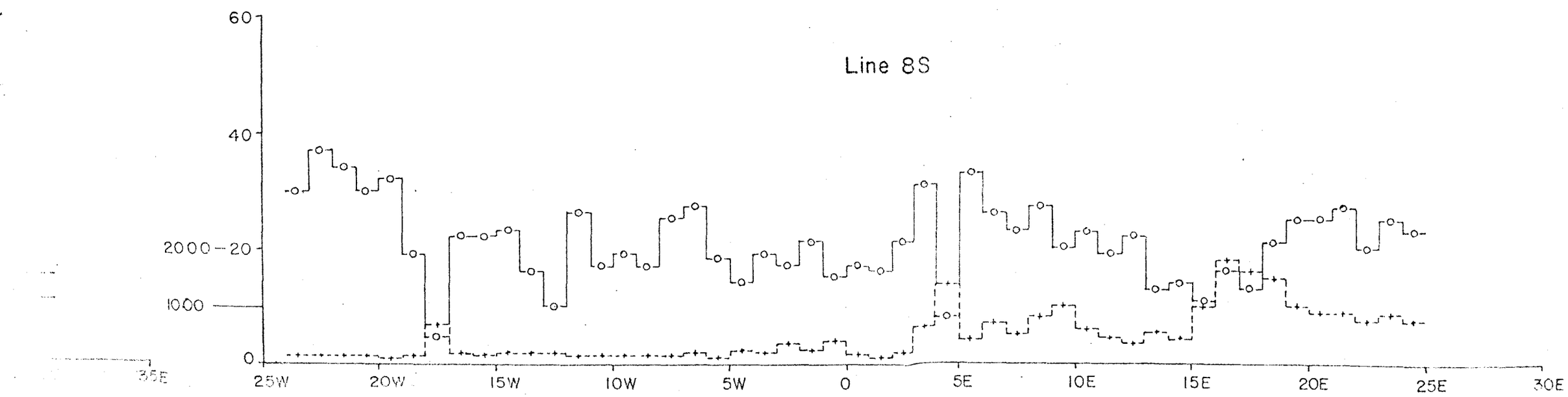

Line 16S
60
40
2000—20
1000
0
25W
20W
15W
10W
5W
0
5E
10E
15E
20E
25E


Line 24S
60
40

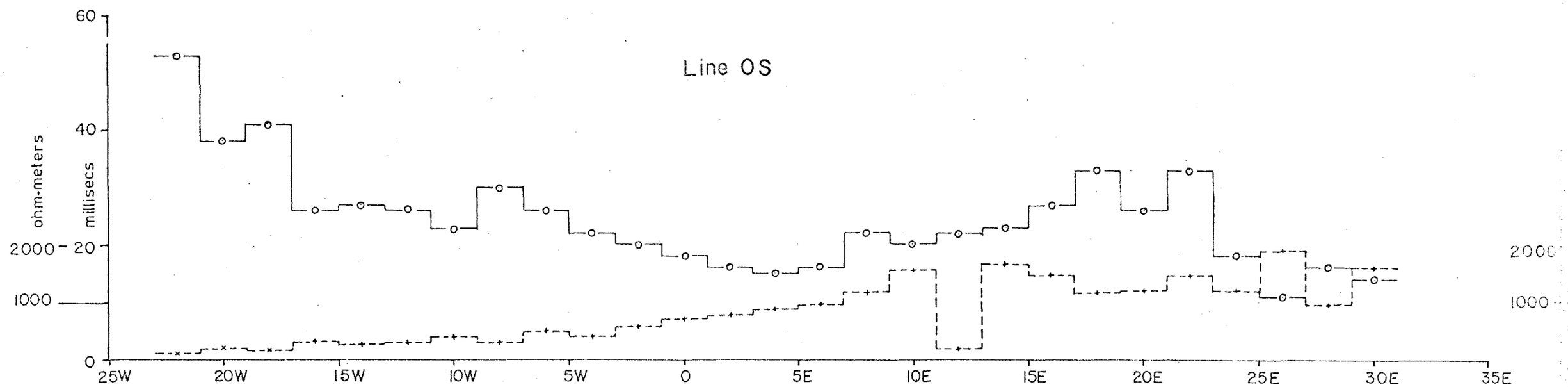
PROJECT 1688/b

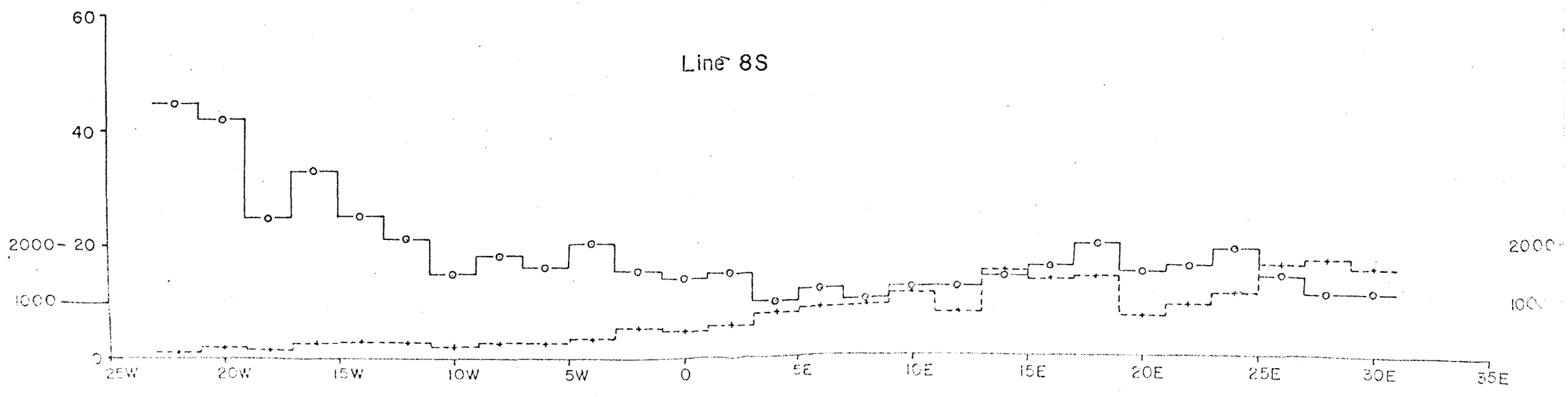
GRADIENT ARRAY $C_1 - C_2 = 3000$ ft.
$P_1 - P_2 = 200$ft.

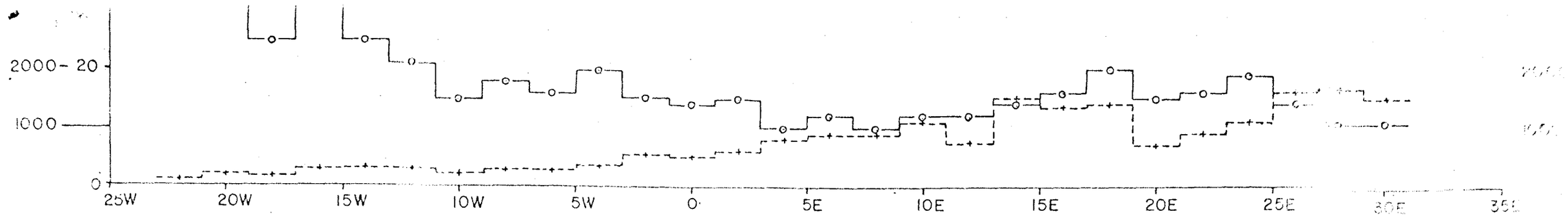


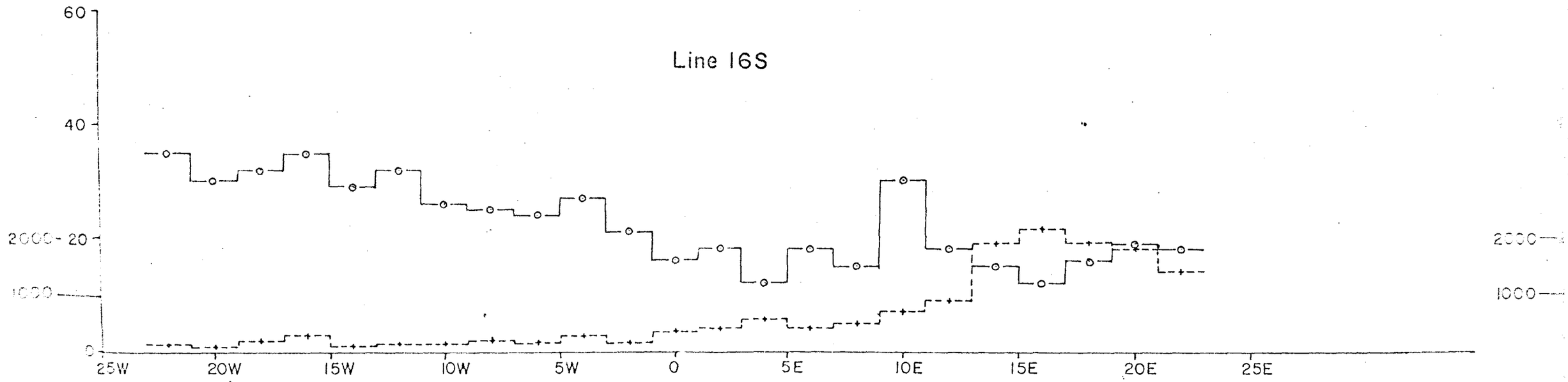


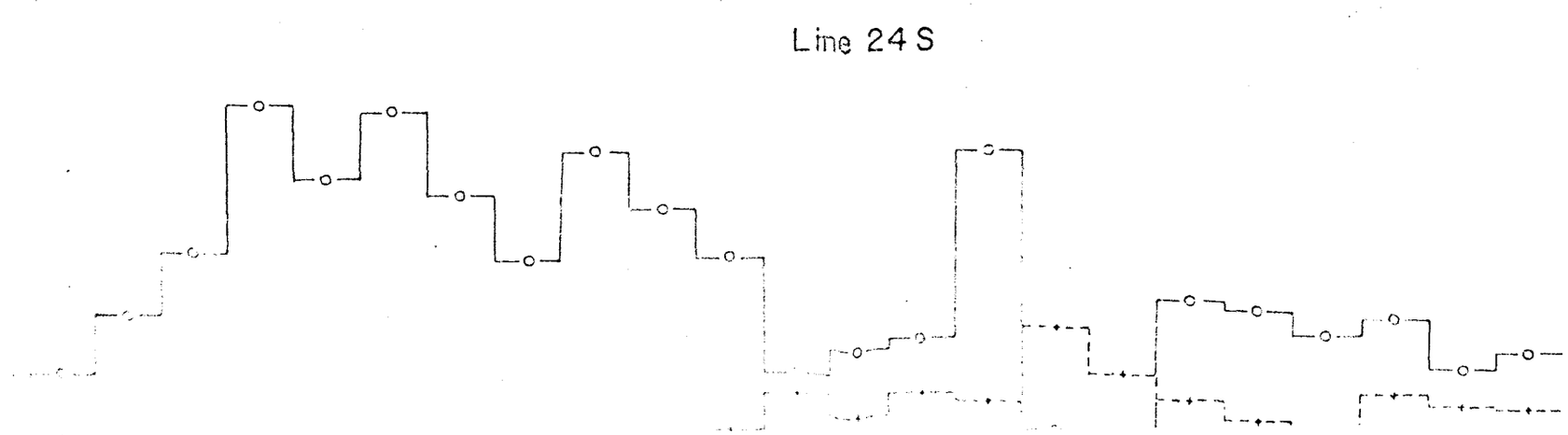
WENNER ARRAY a = 200 ft.

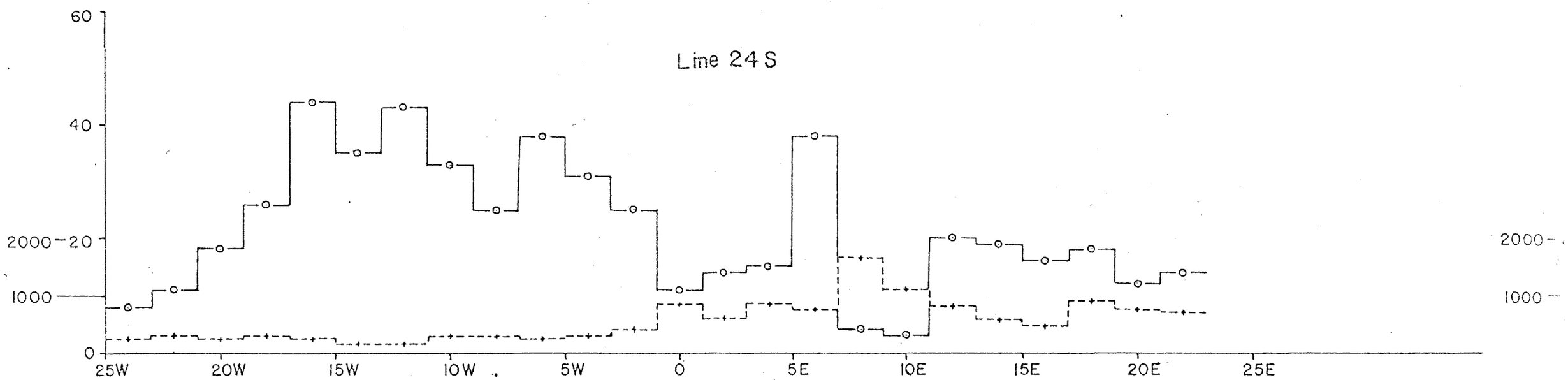


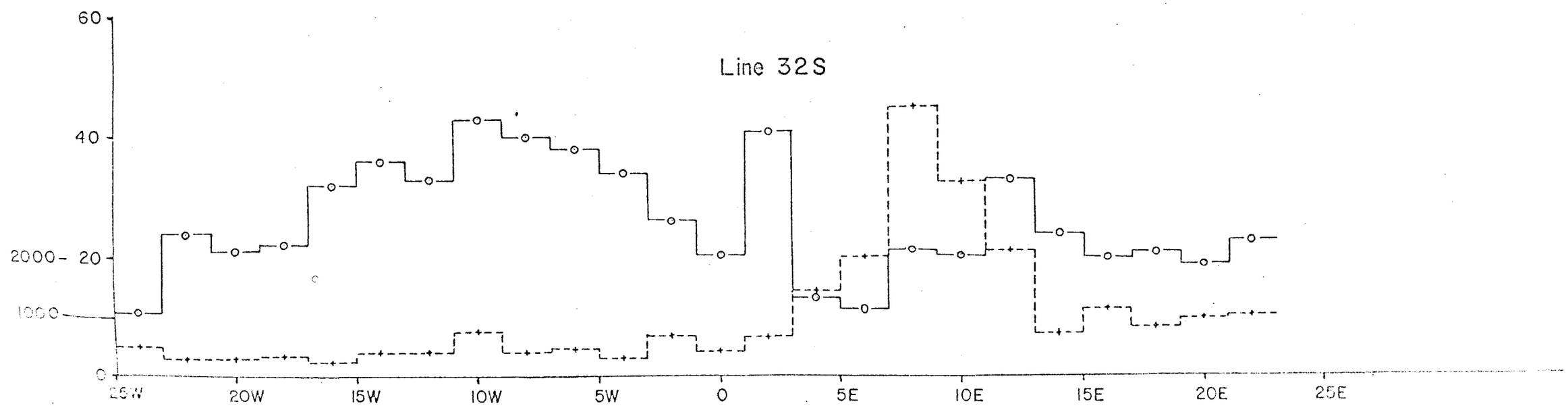



2000
20
1000
0
25W
20W
15W
10W
5W
0
5E
10E
15E
20E
25E
30E
35E

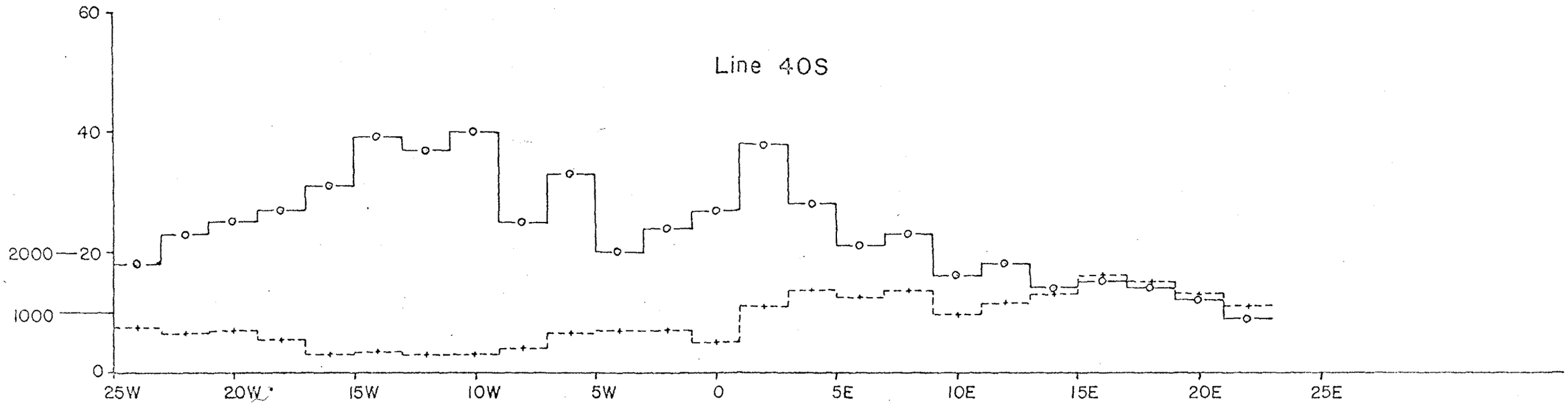

Line 16S
60
40
2000
20
1000
0
25W
20W
15W
10W
5W
0
5E
10E
15E
20E
25E

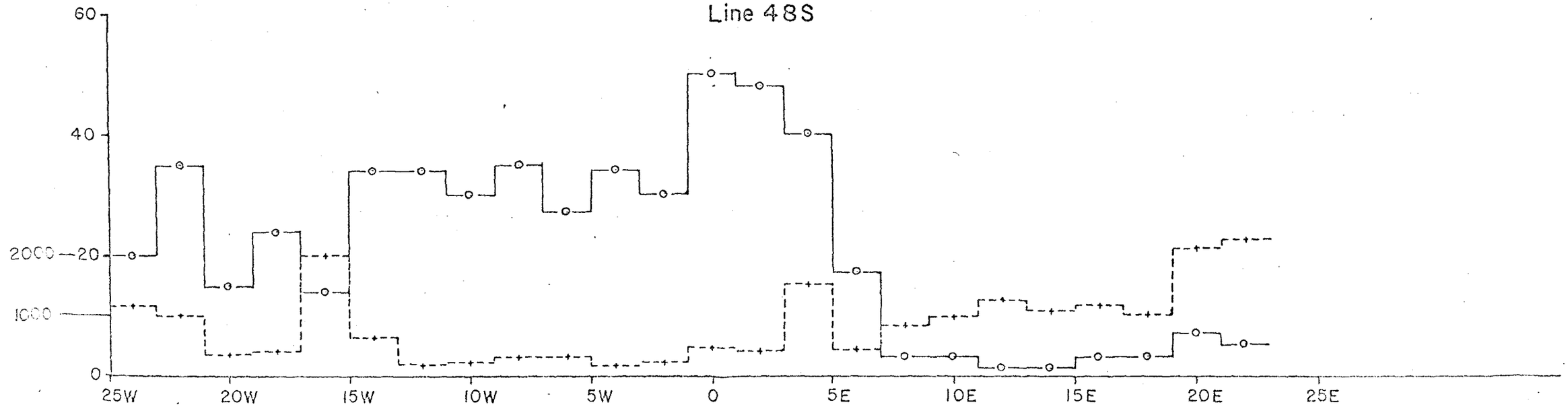

Line 24S

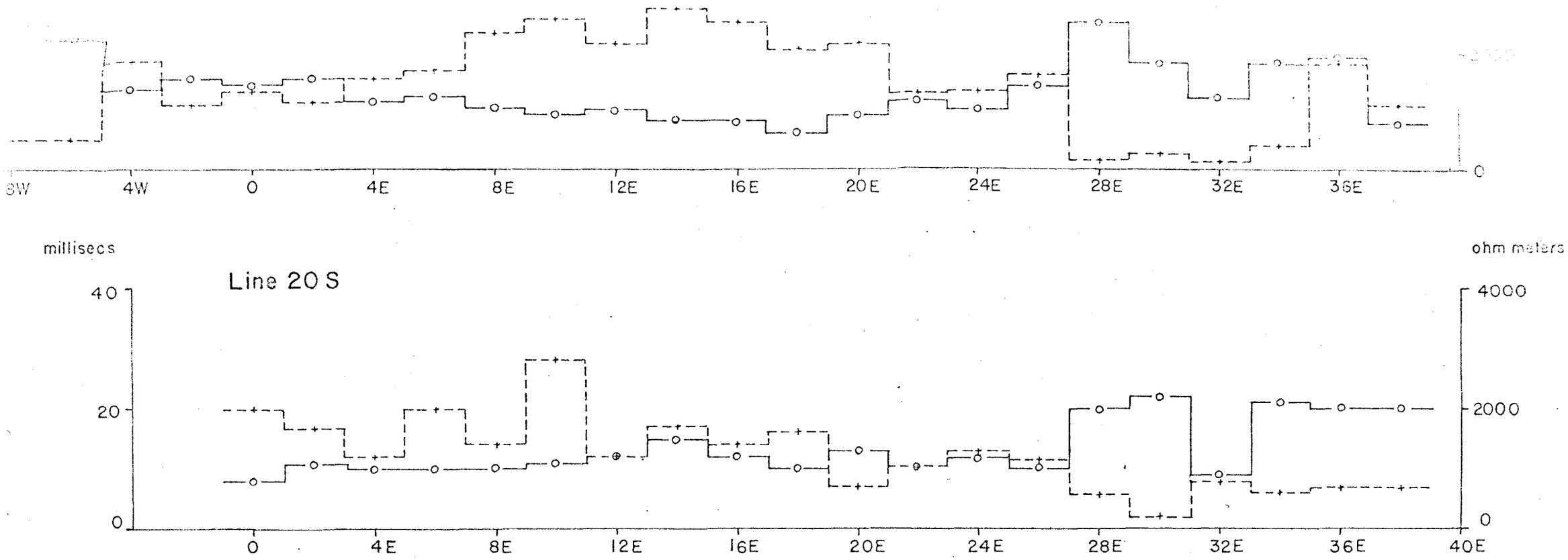

Line 24 S
60
40
2000 20
1000
0
2000
1000
25W
20W
15W
10W
5W
0
5E
10E
15E
20E
25E


Line 32S
60
40
2000 20
1000
0
25W
20W
15W
10W
5W
0
5E
10E
15E
20E
25E

Line 40S


Line 40S
60
40
2000 — 20
1000
0
25W
20W
15W
10W
5W
0
5E
10E
15E
20E
25E


Line 48S
60
40
2000 — 20
1000
0
25W
20W
15W
10W
5W
0
5E
10E
15E
20E
25E



NORANDA EXPLORATION (UK) LIMITED

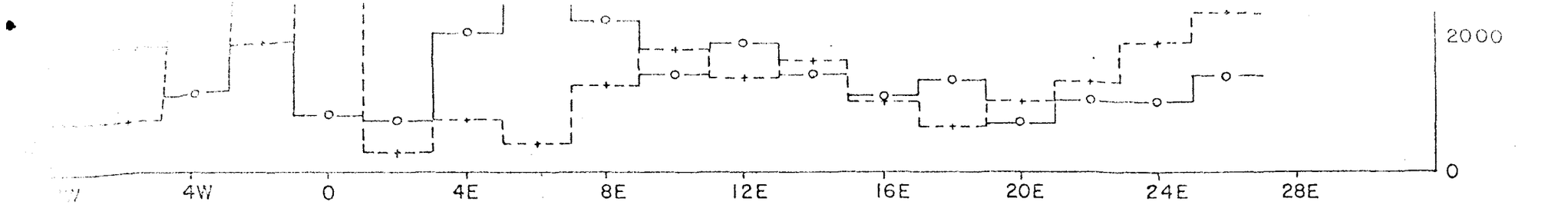
PROJECT 1688

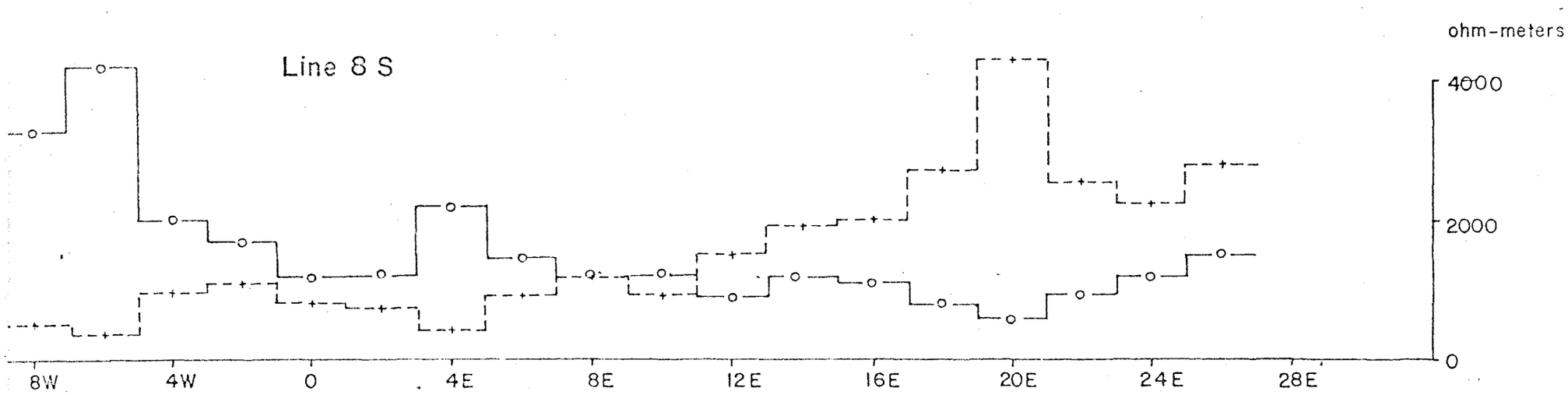
NORTH WALES

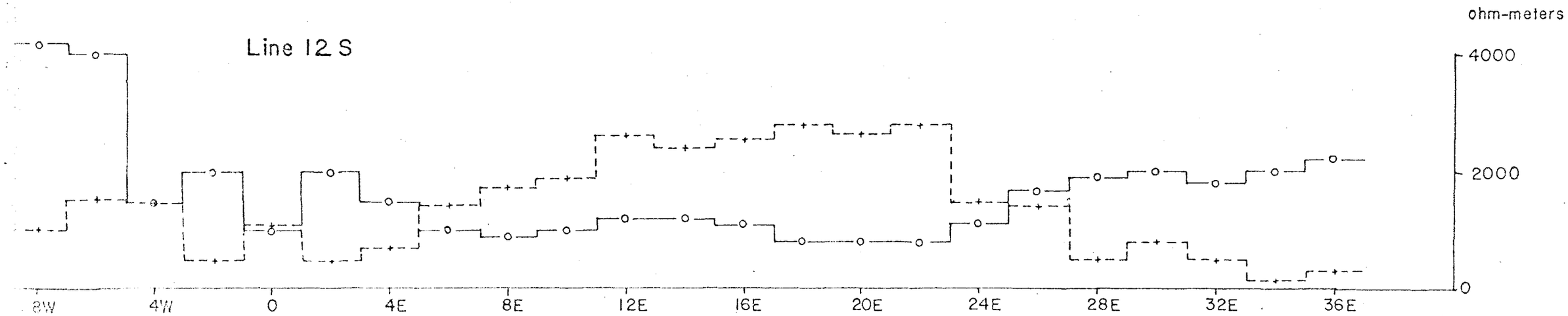
SOUTH PRYSOR - GRID 2

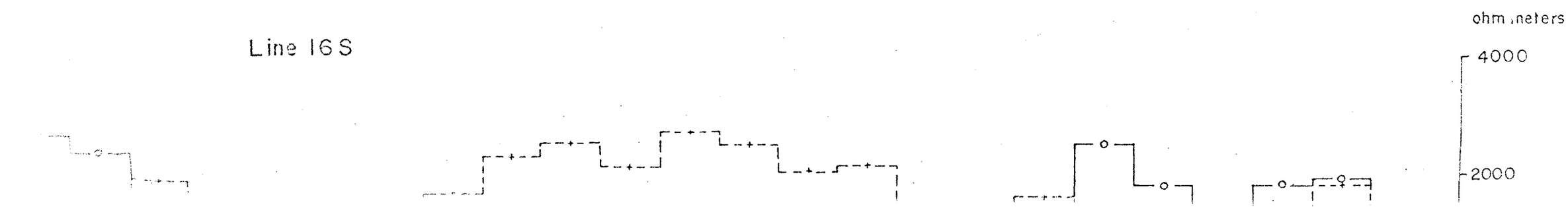
Induced Polarization and Resistivity Survey. Fig 7

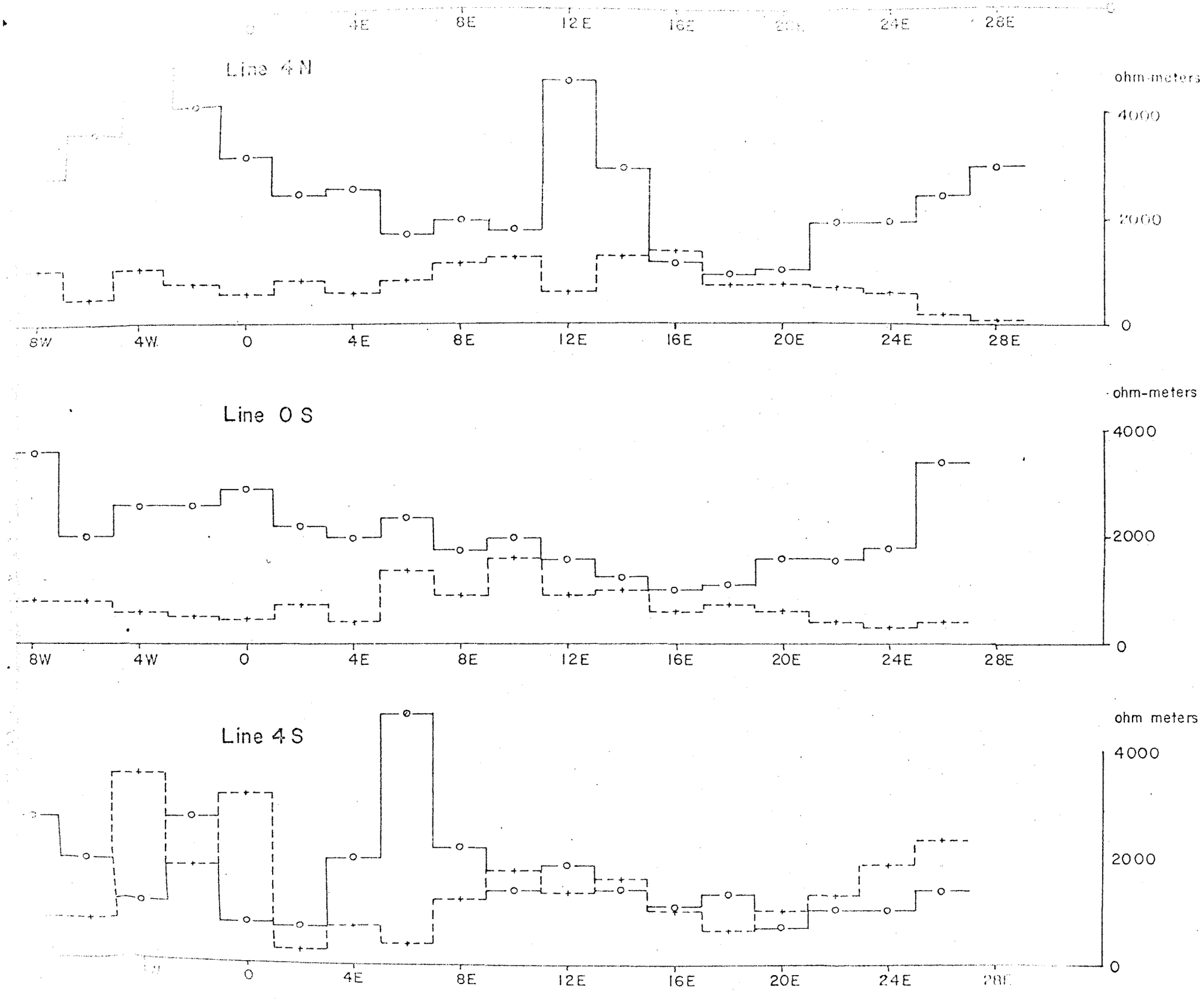
After work by F. Buckley Ltd.	*Date of work: Nov. 1971*	*Drawn: H.F. Date: 5·9·72*


2000
0
4W
0
4E
8E
12E
16E
20E
24E
28E


ohm-meters
Line 8 S
4000
2000
0
8W
4W
0
4E
8E
12E
16E
20E
24E
28E


ohm-meters
Line 12 S
4000
2000
0
8W
4W
0
4E
8E
12E
16E
20E
24E
28E
32E
36E

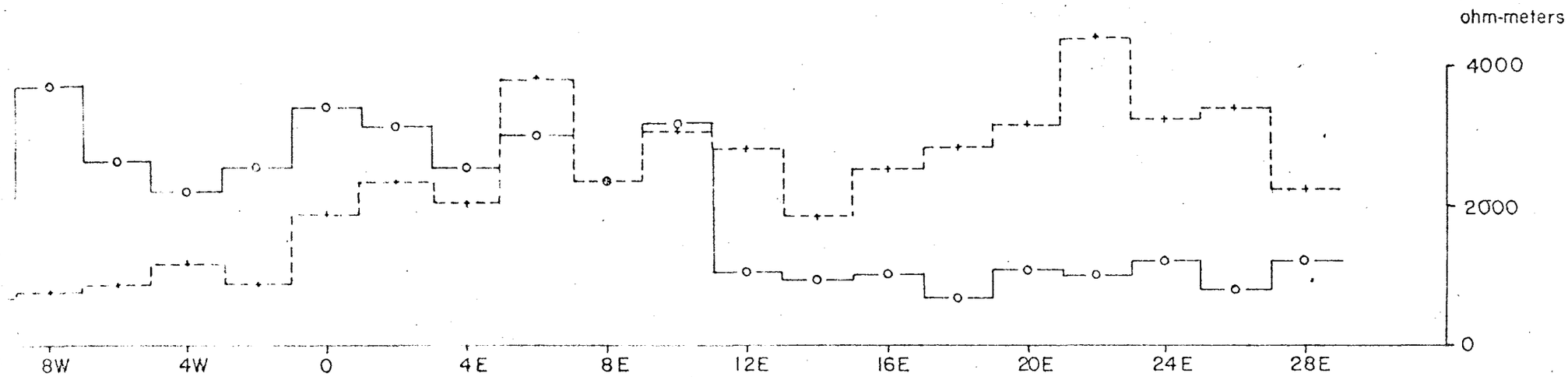

ohm-meters
Line 16 S
4000
2000


4E
8E
12E
16E
24E
28E
Line 4N
ohm-meters
4000
2000
0
8W
4W
0
4E
8E
12E
16E
20E
24E
28E
Line 0 S
ohm-meters
4000
2000
0
8W
4W
0
4E
8E
12E
16E
20E
24E
28E
Line 4 S
ohm meters
4000
2000
0
0
4E
8E
12E
16E
20E
24E

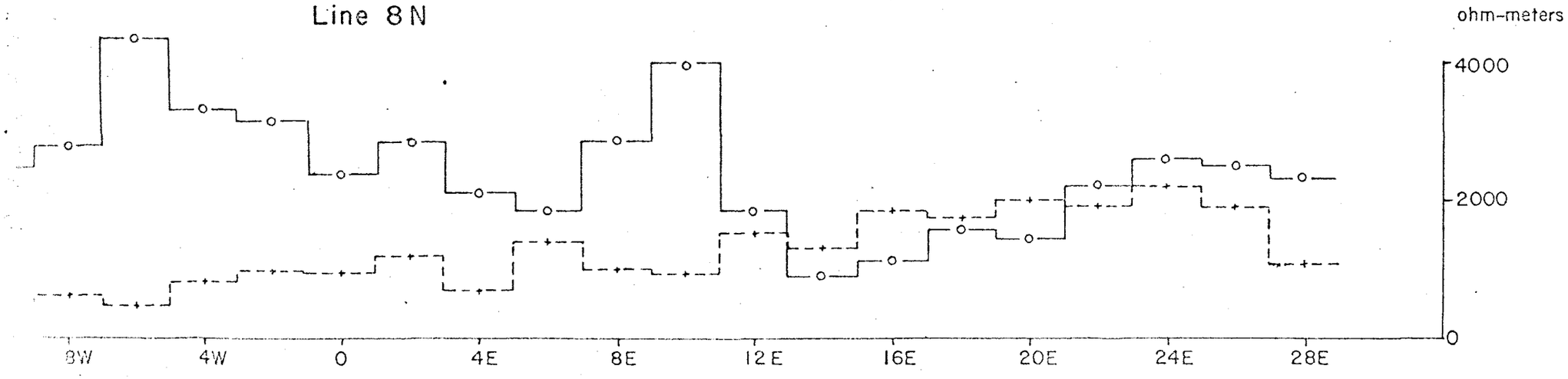
PROJECT 1688

WENNER ARRAY a = 200 ft.

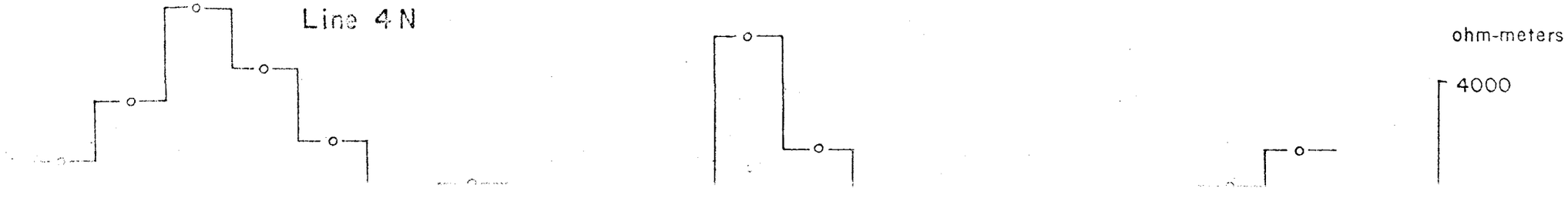
Line 12 N



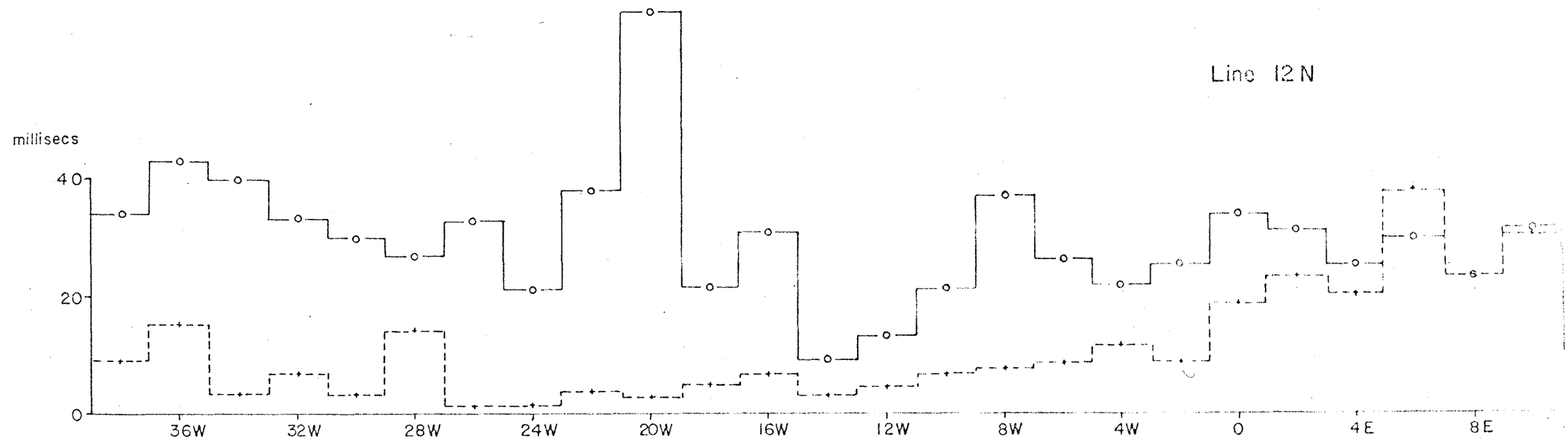
Line 8 N

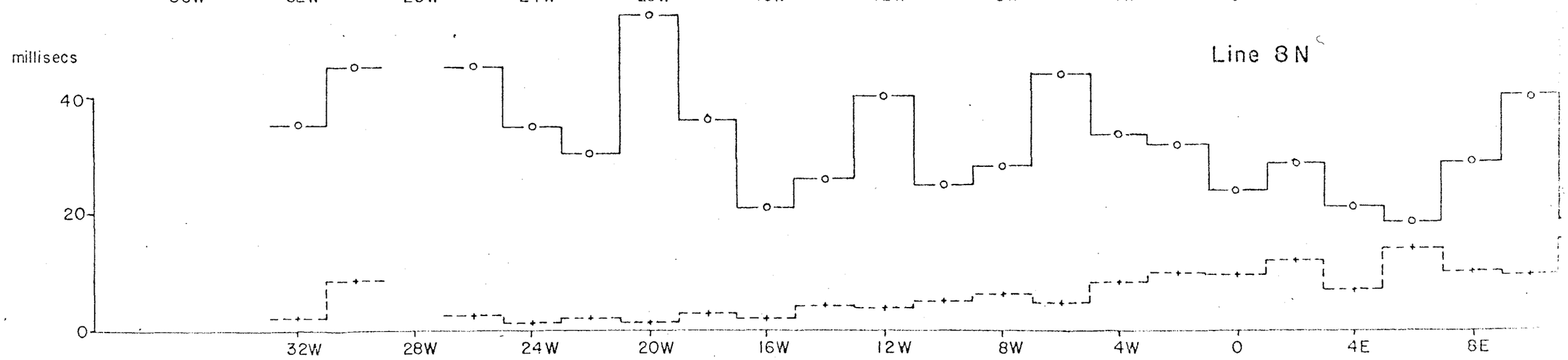


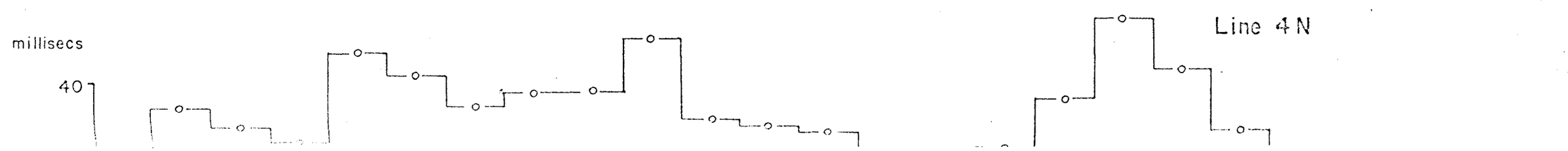
Line 4 N

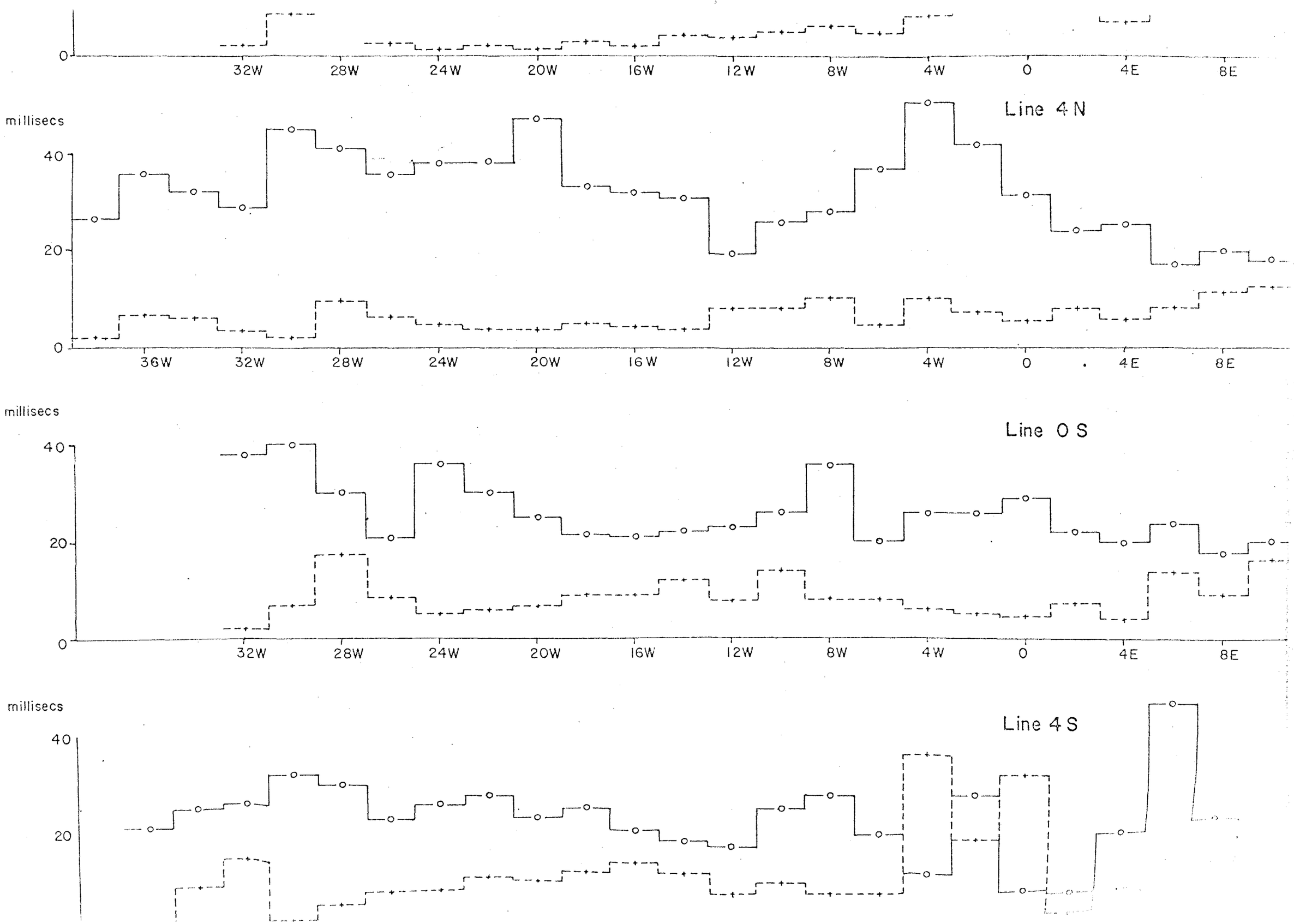


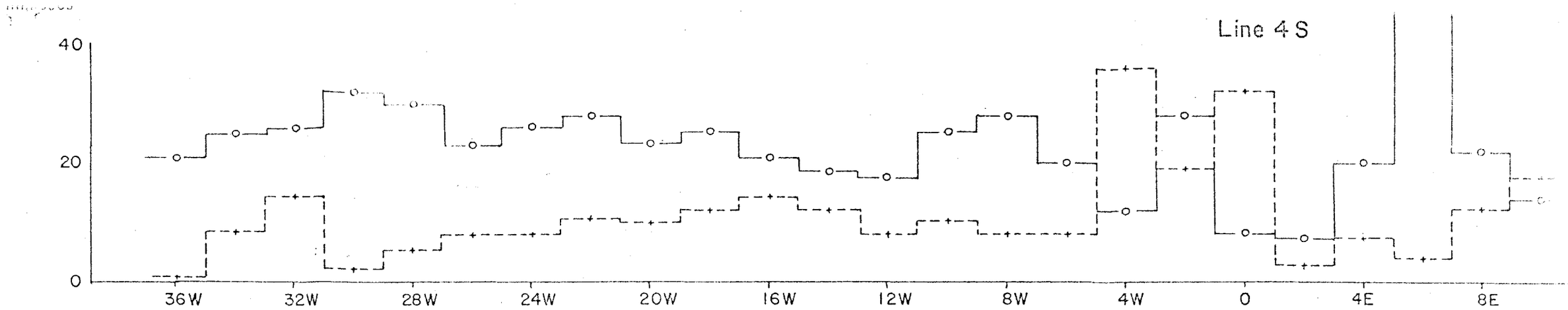
WENNER ARRAY a = 200 ft.

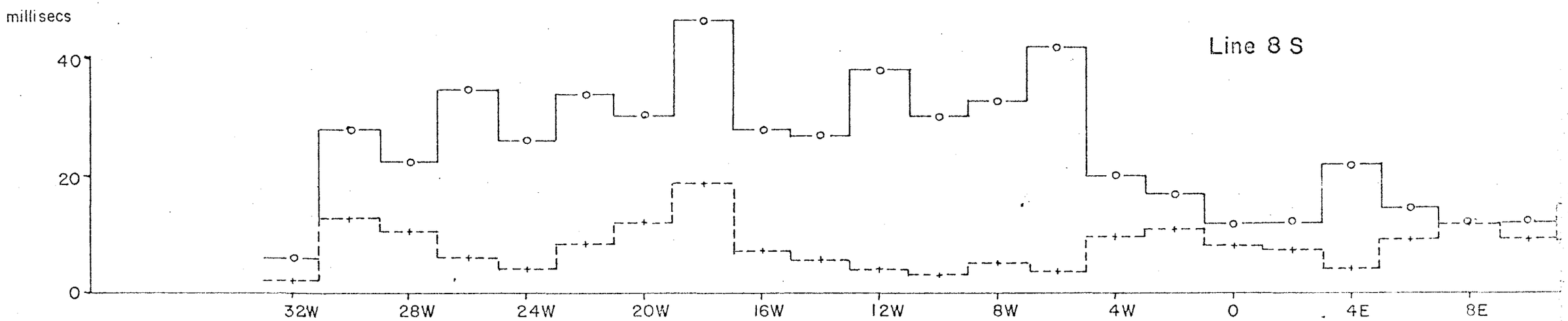


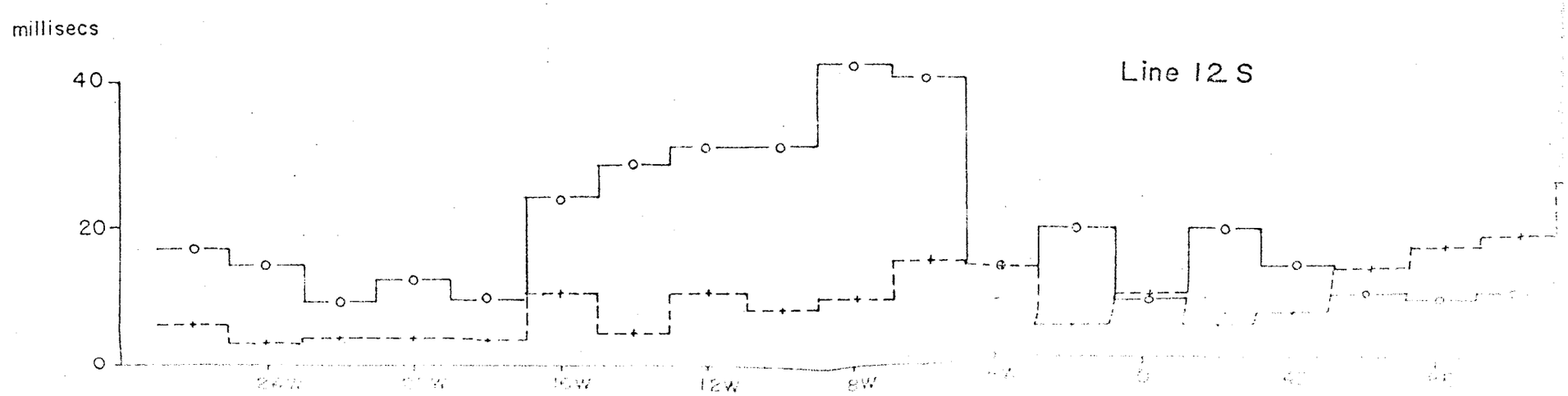


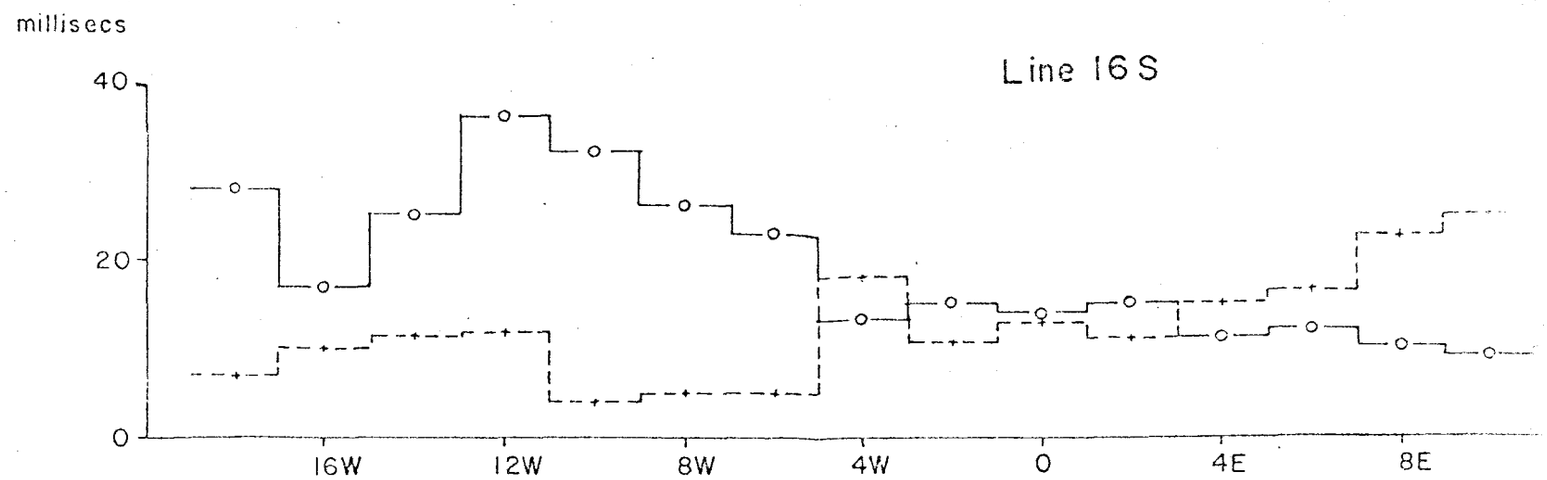


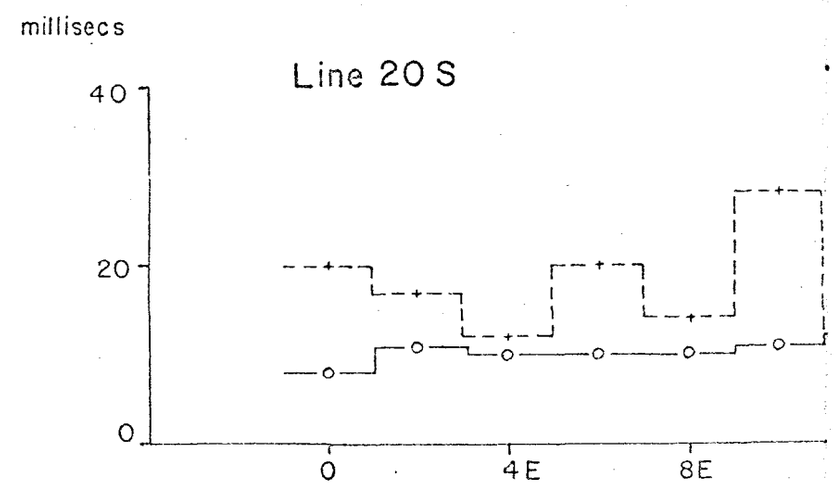

0
32W
28W
24W
20W
16W
12W
8W
4W
0
4E
8E
millisecs
Line 4 N
40
20
0
36W
32W
28W
24W
20W
16W
12W
8W
4W
0
4E
8E
millisecs
Line 0 S
40
20
0
32W
28W
24W
20W
16W
12W
8W
4W
0
4E
8E
millisecs
Line 4 S
40
20


Line 4 S
40
20
0
36W
32W
28W
24W
20W
16W
12W
8W
4W
0
4E
8E


millisecs
Line 8 S
40
20
0
32W
28W
24W
20W
16W
12W
8W
4W
0
4E
8E


millisecs
Line 12 S
40
20
0
12W
8W





LEGEND

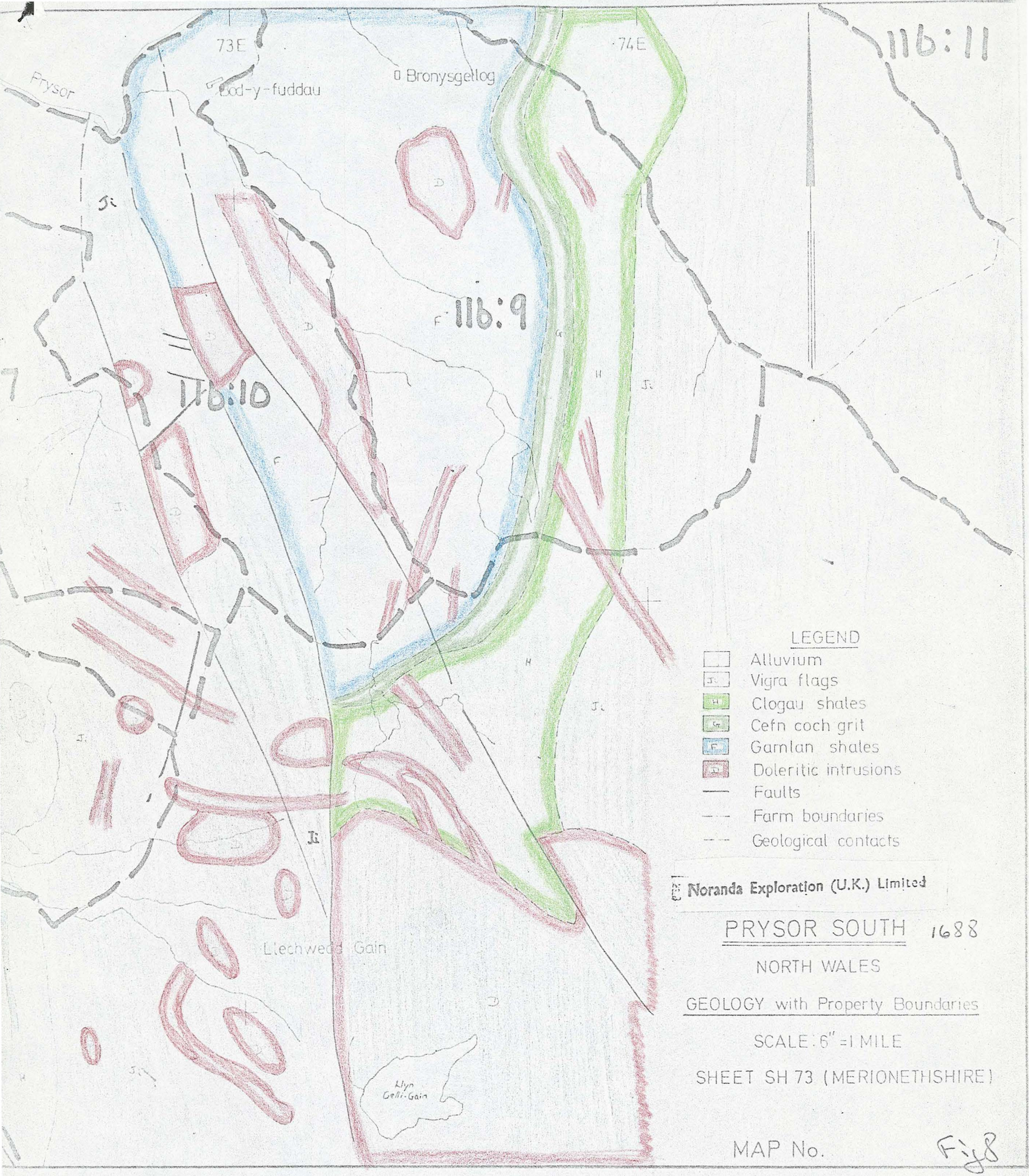
- - - - + - - - resistivity in ohm-meters

——— o ——— chargeability in millisecs

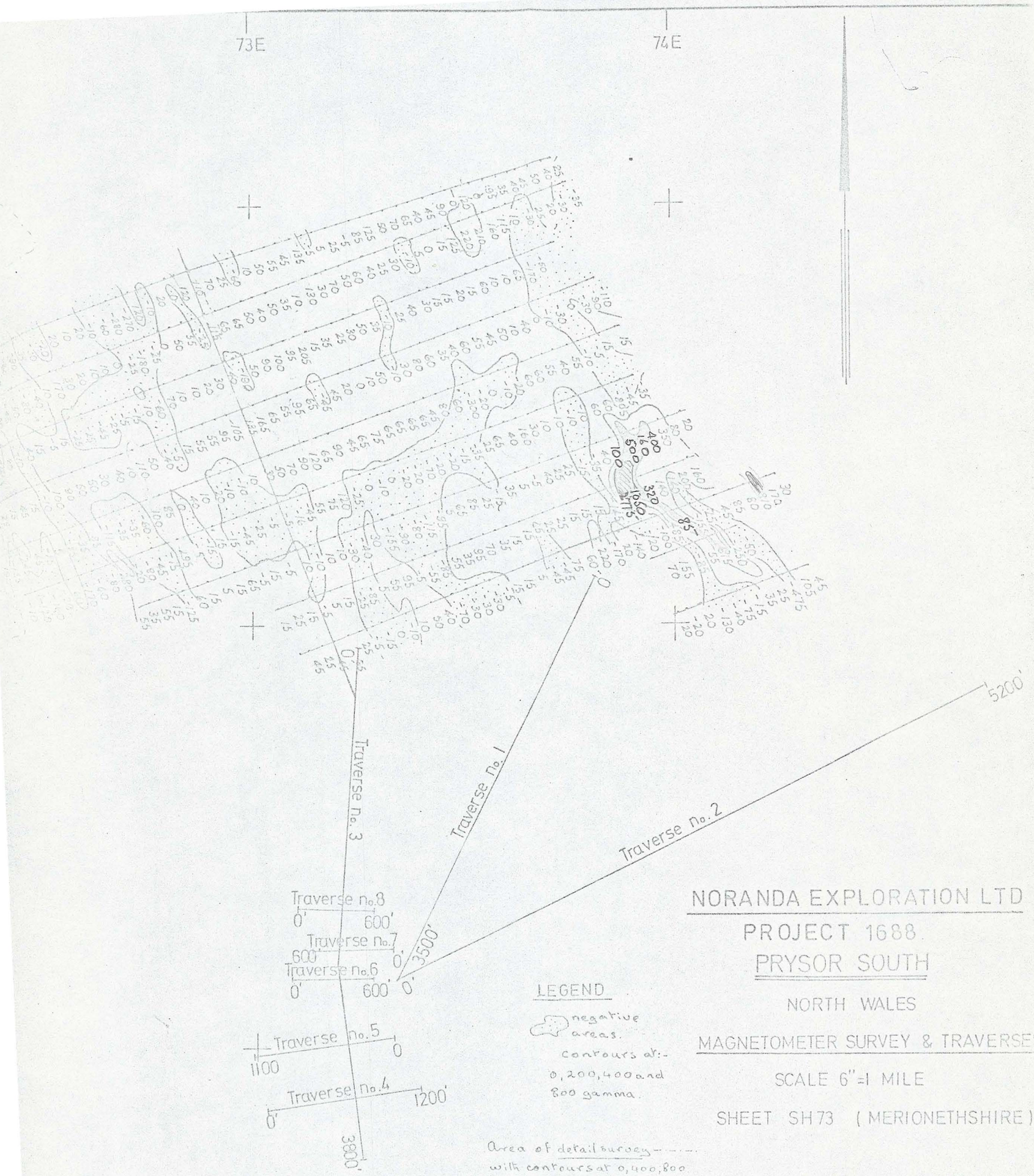
SCALES

Vertical: 1 inch = 2000 ohm-meters
and 1 inch = 20 millisecs

Horizontal: 1 inch = 400 feet.


73E
74E
116:11
Prysor
Bod-y-fuddau
Bronysgellog
116:9
116:10
Llechwedd Gain
Llyn Gelli-Gain
LEGEND
Alluvium
Vigra flags
Clogau shales
Cefn coch grit
Gamlan shales
Doleritic intrusions
Faults
Farm boundaries
Geological contacts
Noranda Exploration (U.K.) Limited
PRYSOR SOUTH 1688
NORTH WALES
GEOLOGY with Property Boundaries
SCALE: 6" = 1 MILE
SHEET SH 73 (MERIONETHSHIRE)
MAP No.
Fig 8

71 E
72 E
73 E
Afon
Prysor
35 N
34 N
33 N
Yegwrn
116:47
116:10
116:48
Plâs Capten



NORANDA EXPLORATION LTD

PROJECT 1688.

PRYSOR SOUTH

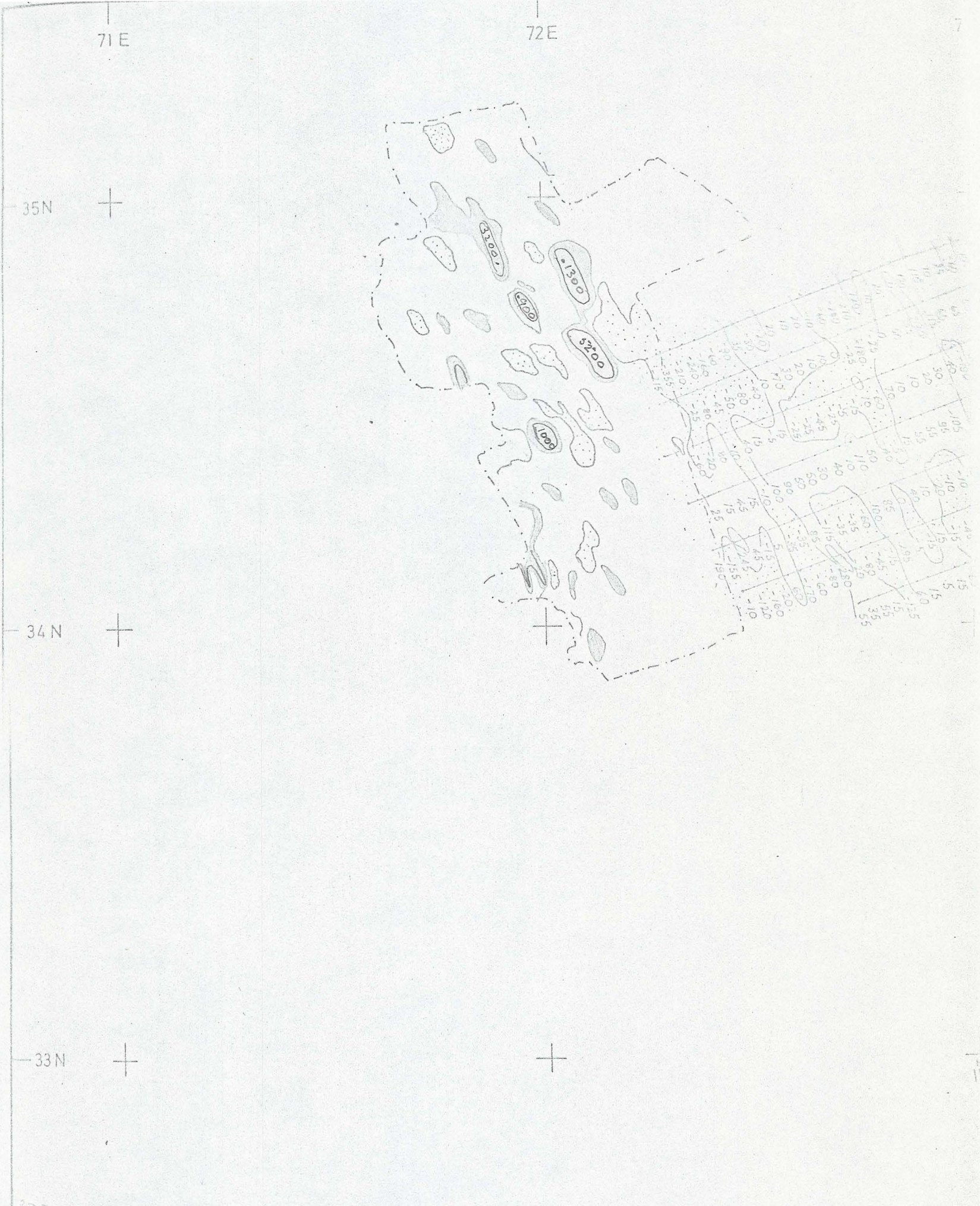
NORTH WALES

MAGNETOMETER SURVEY & TRAVERSES

SCALE 6"=1 MILE

SHEET SH73 (MERIONETHSHIRE)

MAP No. Fig 9


71 E
72 E
35N
34 N
33 N
3200
1300
400
3200
1000

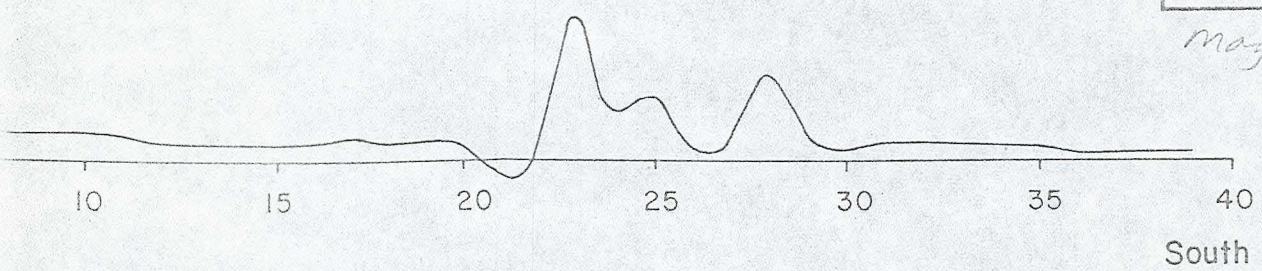
Drg. No. 1688/10

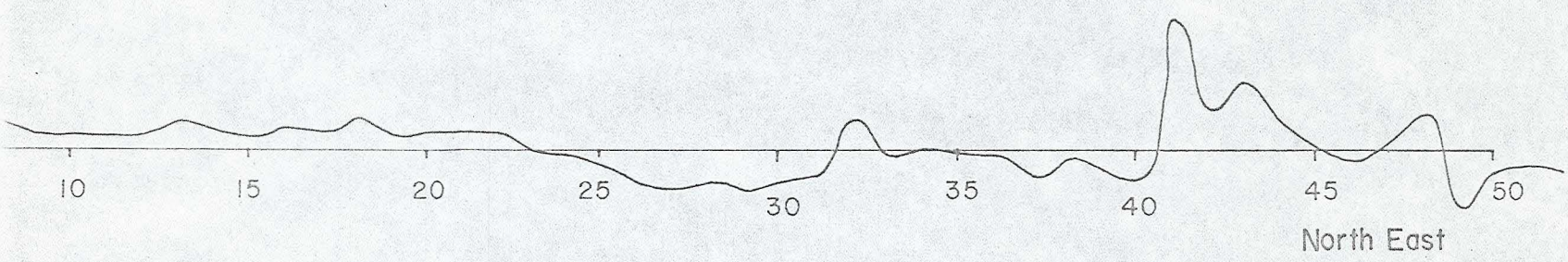
PROJECT 1688

PRYSOR - NORTH WALES

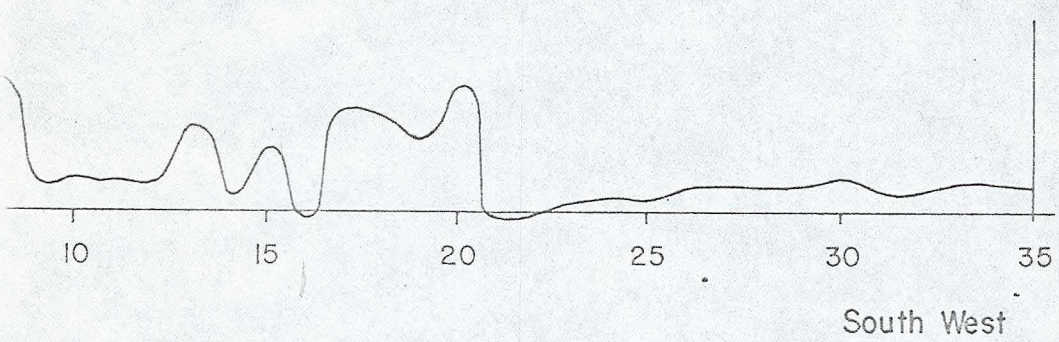
Scales: 1 : 100 & 1 : 500

Mag Traverses 1 — 8





Scale: 1 inch to 500 feet



Drg. No. 1688/

NORANDA EXPLORATION (UK) LIMITED

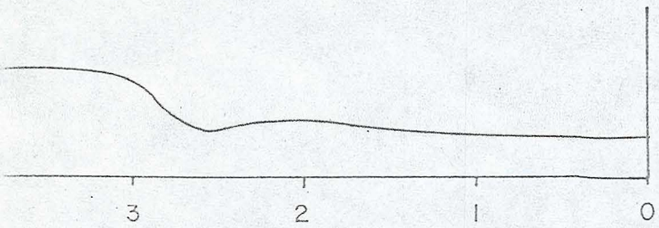
PROJECT 1688

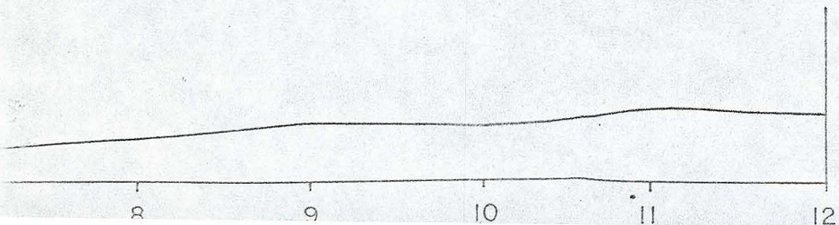
SOUTH PRYSOR - NORTH WALES

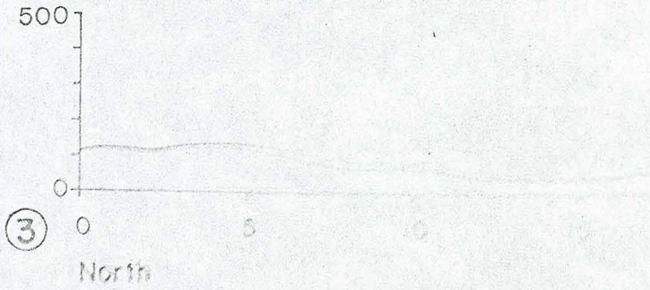
GROUND MAGNETOMETER TRAVERSES 1 - 8

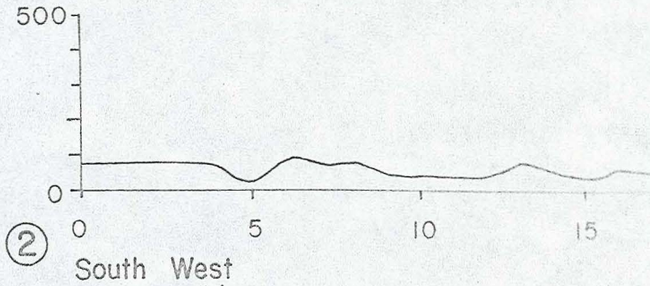
Author:	Date of work: Dec. 1971	Drawn: H.F. Date: 29·8·72

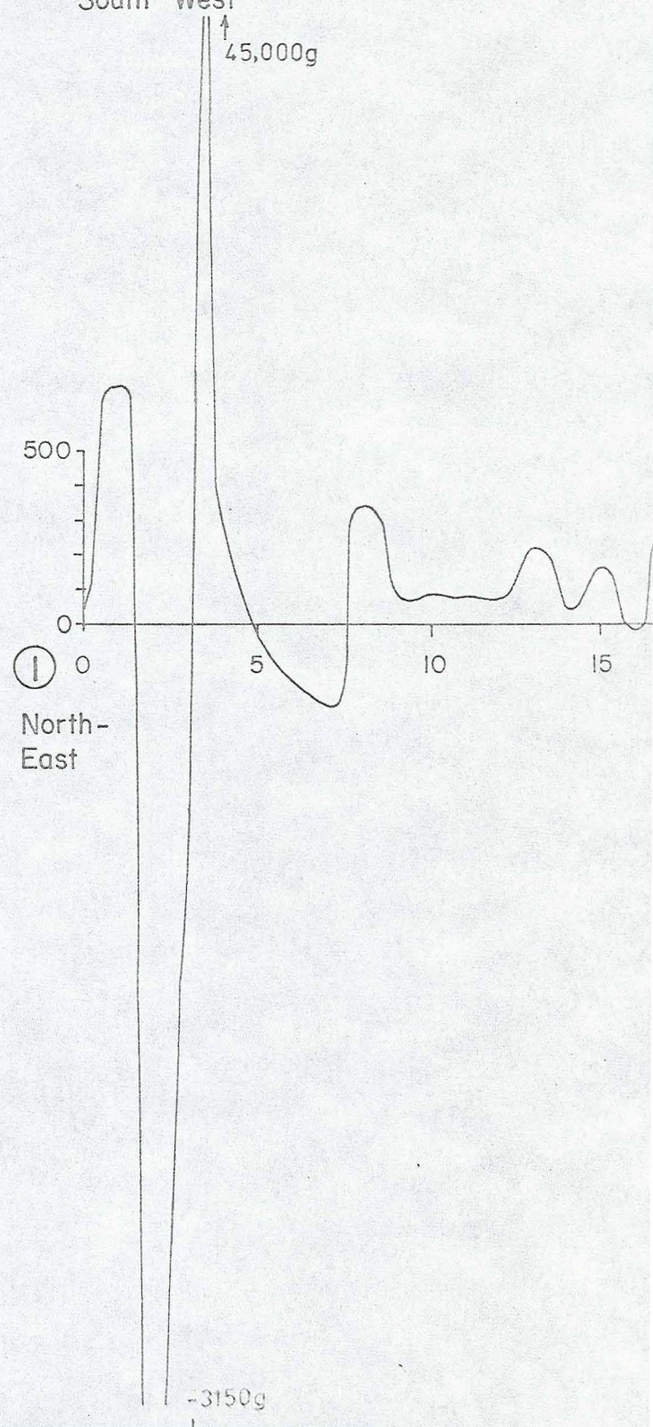
Scale: 1 inch to 100 feet





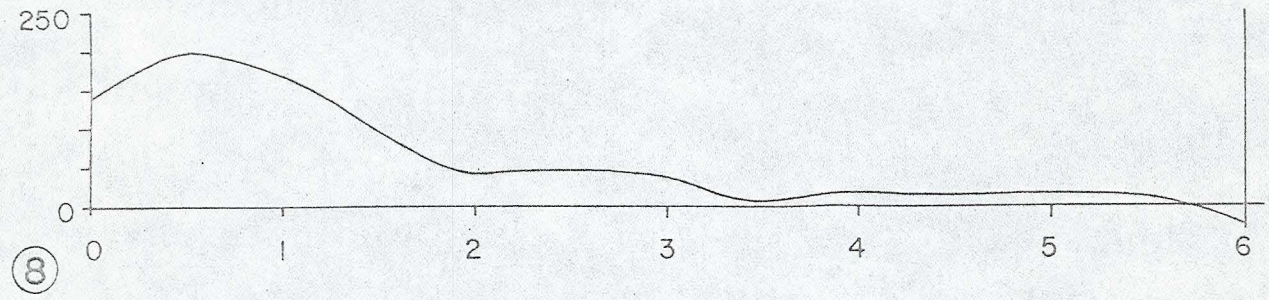


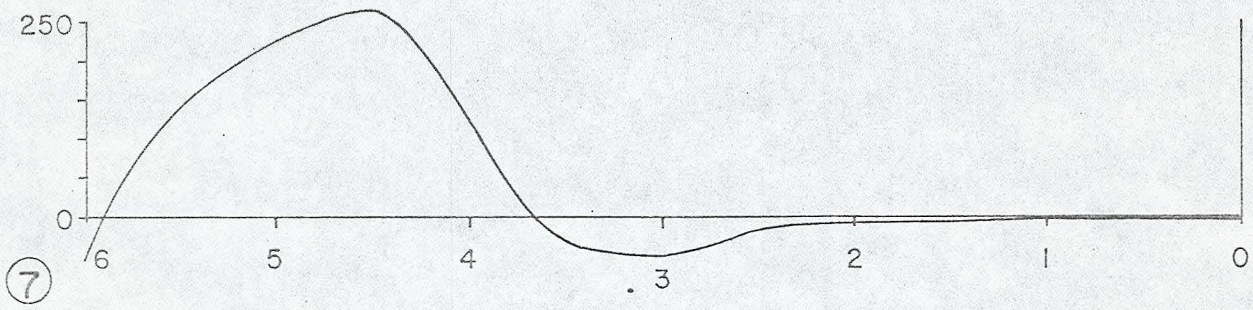




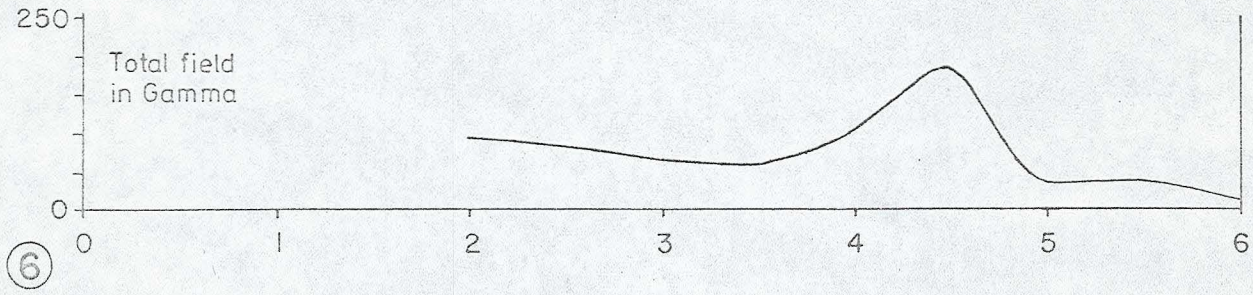
West

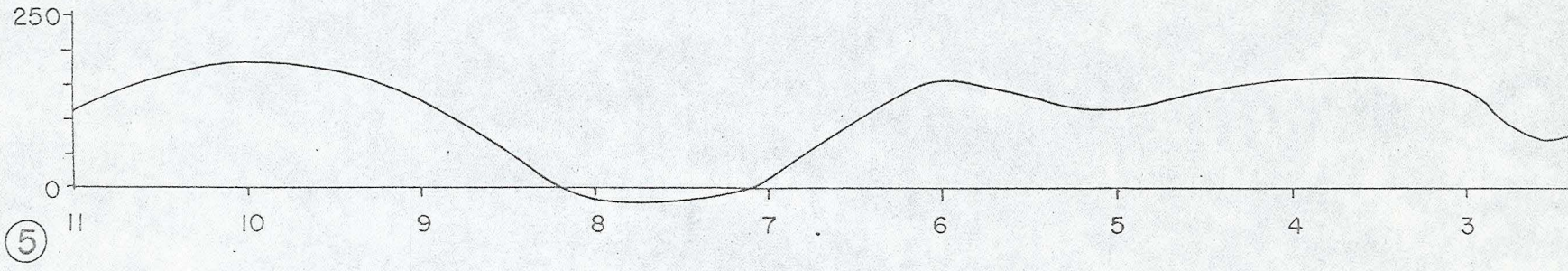
East (4 - 8)

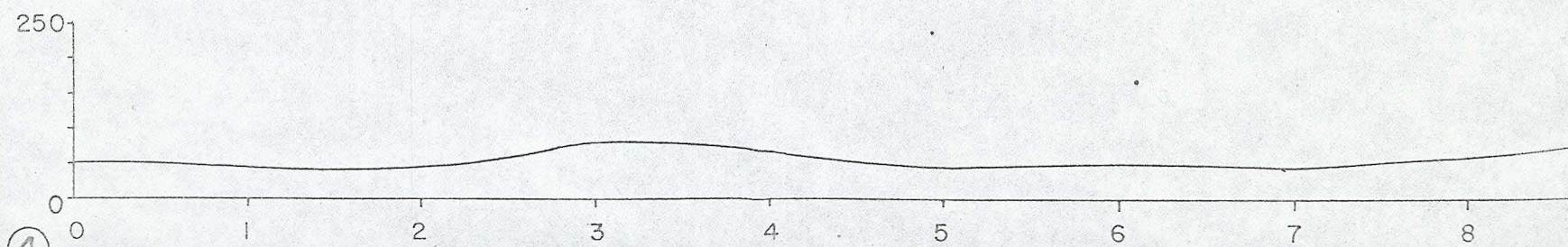


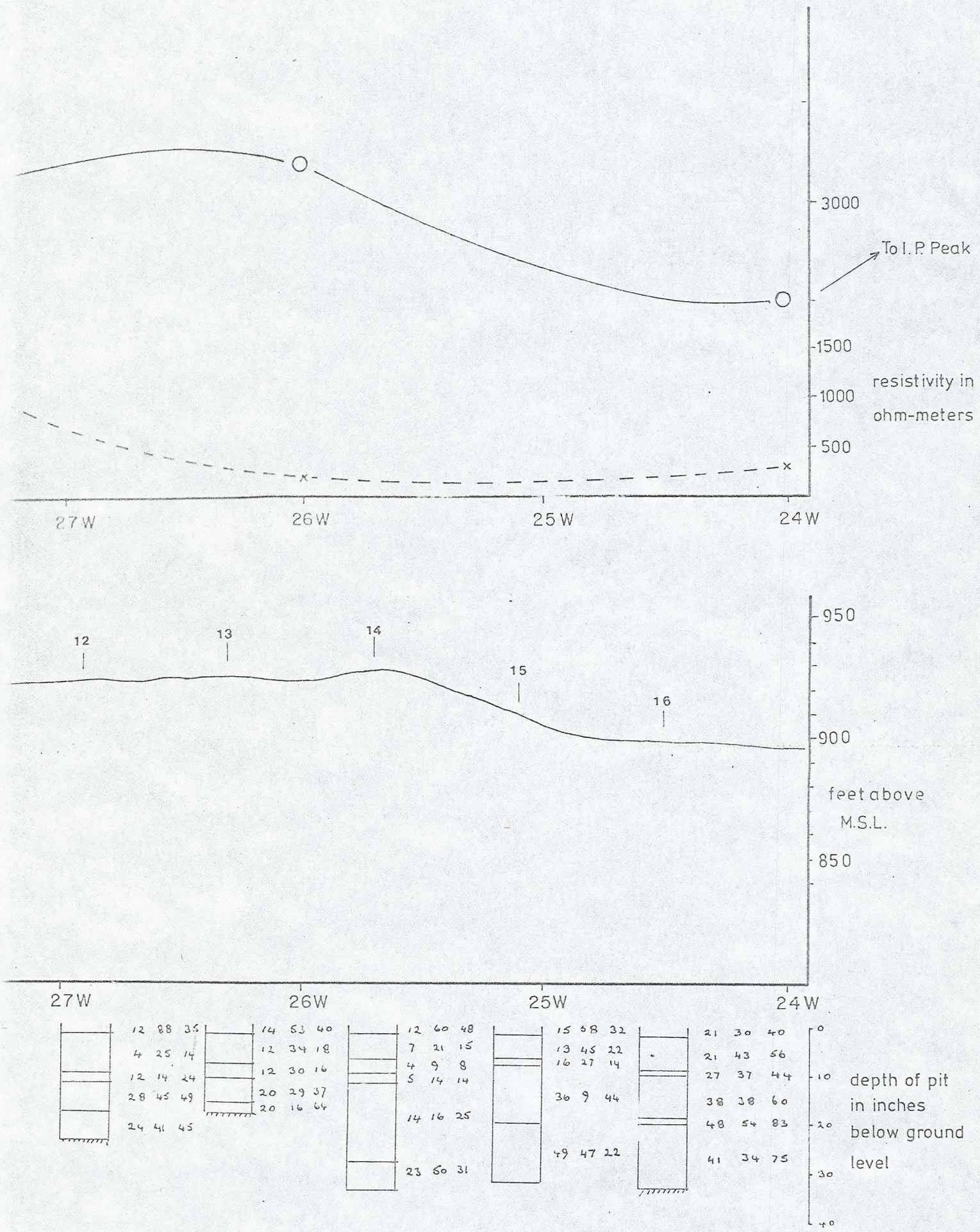


Scale: 1 i









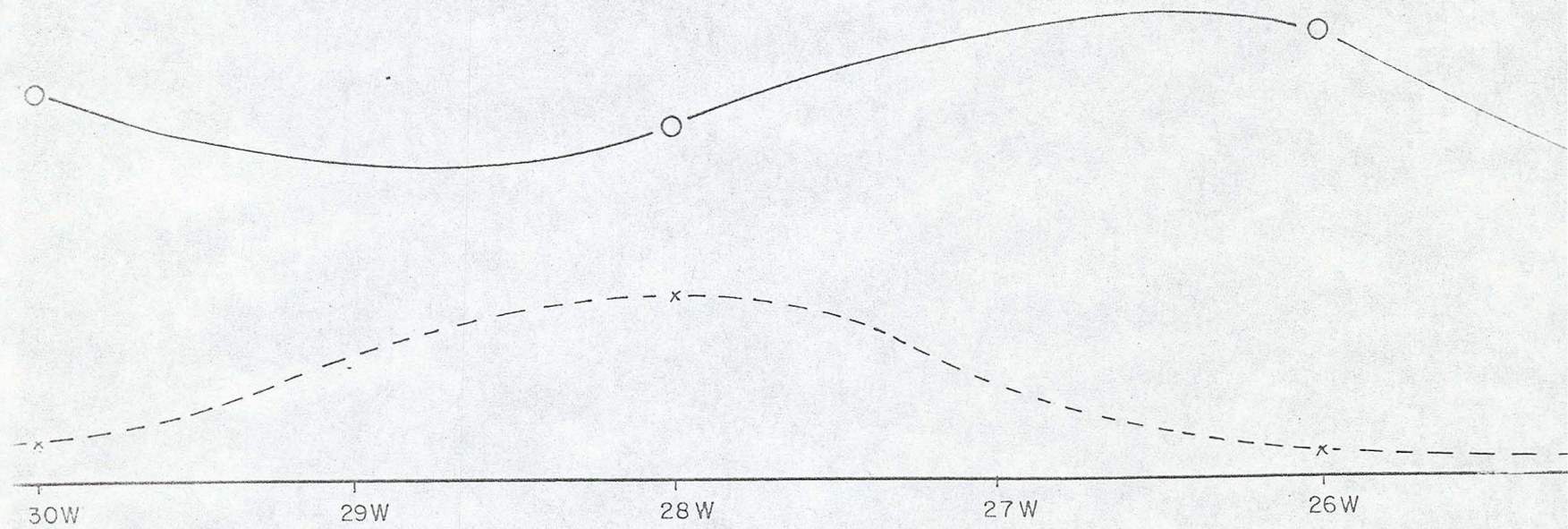
NORANDA EXPLORATION (UK) LIMITED

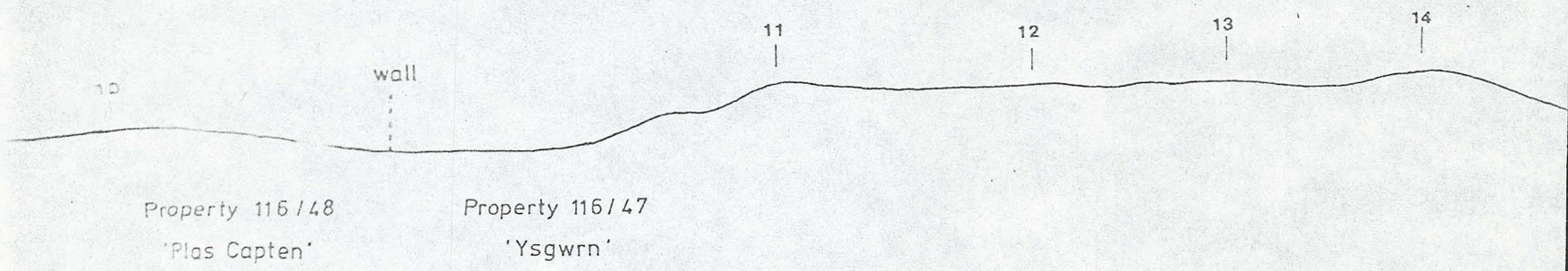
PROJECT 1688

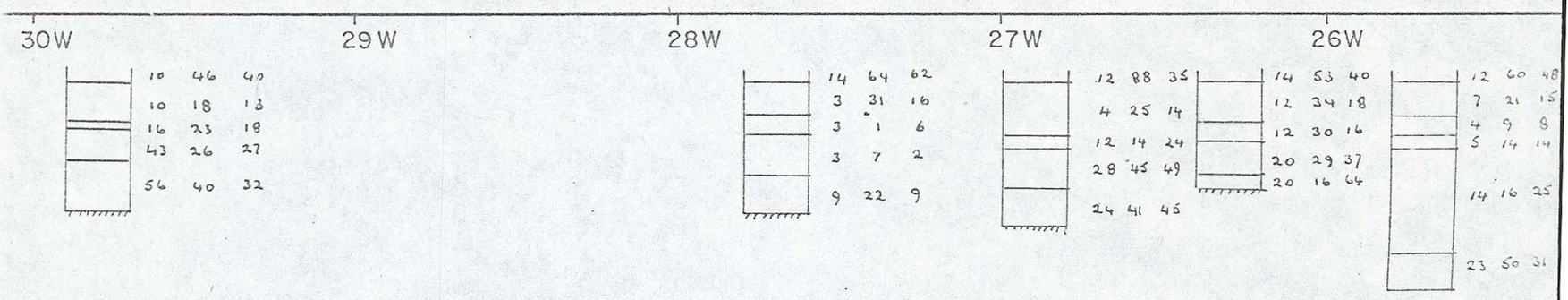
SOUTH PRYSOR - NORTH WALES

GEOCHEMICAL & GEOPHYSICAL PROFILES LINE 12 NORTH Fig 11

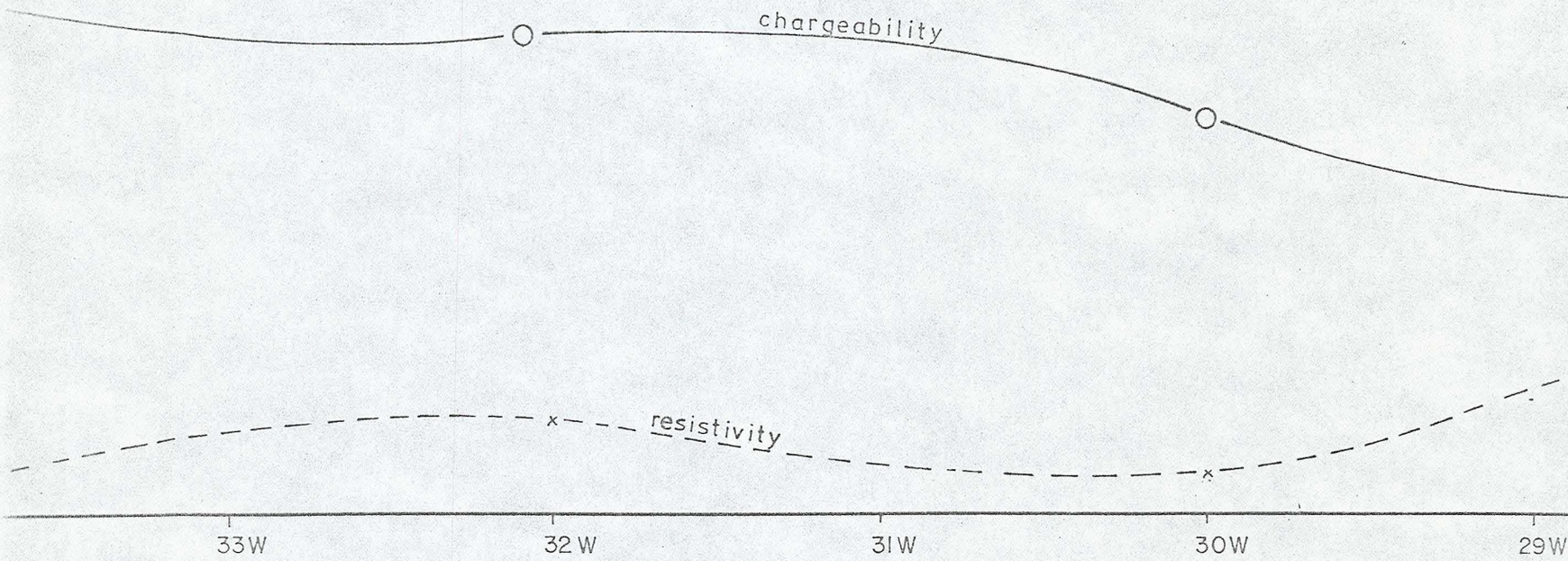
Author: I. Wallace	Date of work: May 1972	Drawn: H. F. Date: 29·8·72


30W
29W
28W
27W
26W

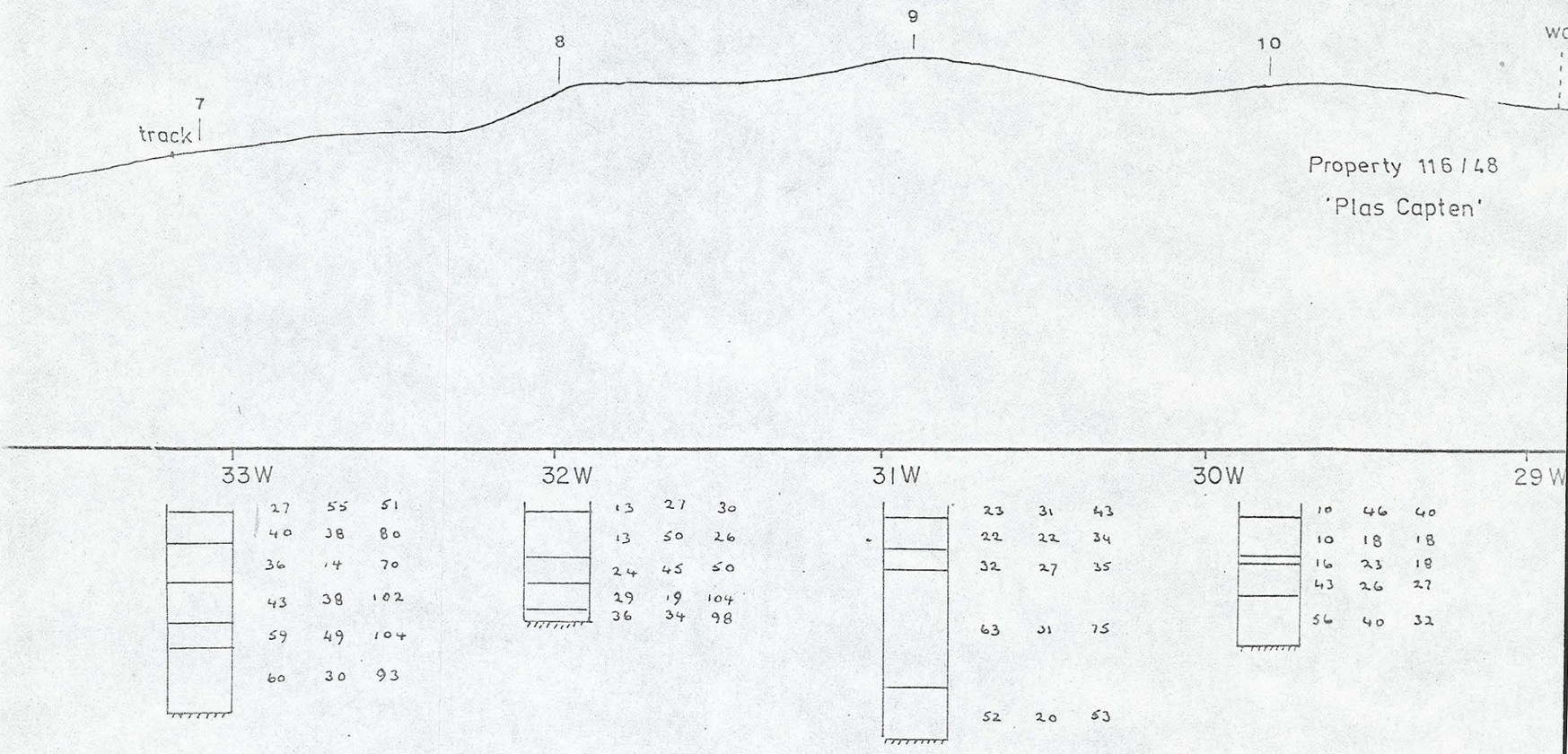

11
12
13
14
wall
Property 116/48
'Plas Capten'
Property 116/47
'Ysgwrn'

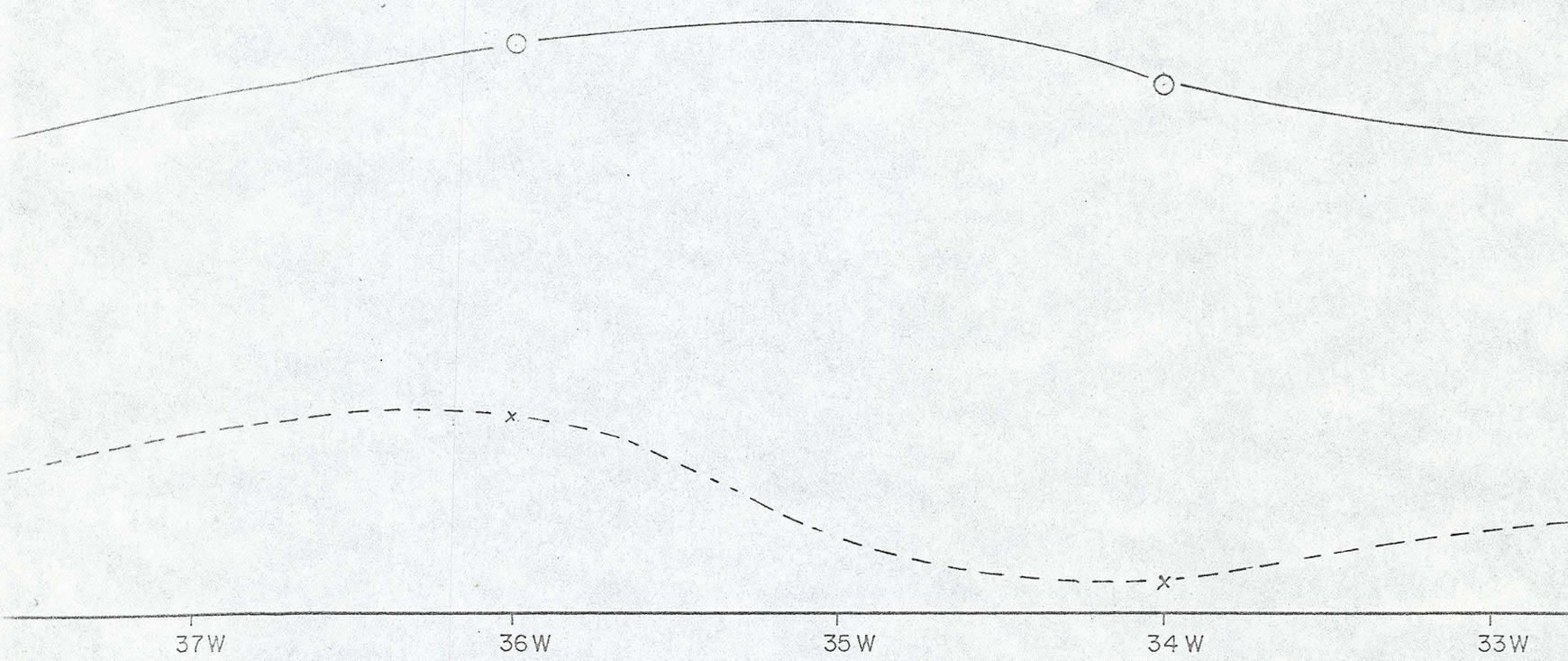

30W
29W
28W
27W
26W
10 46 49
10 18 13
16 23 18
43 26 27
56 40 32
14 64 62
3 31 16
3 1 6
3 7 2
9 22 9
12 88 35
4 25 14
12 14 24
28 45 49
24 41 45
14 53 40
12 34 18
12 30 16
20 29 37
20 16 64
12 60 48
7 21 15
4 9 8
5 14 14
14 16 25
23 50 31

I.P. Response (a = 200 ft.)

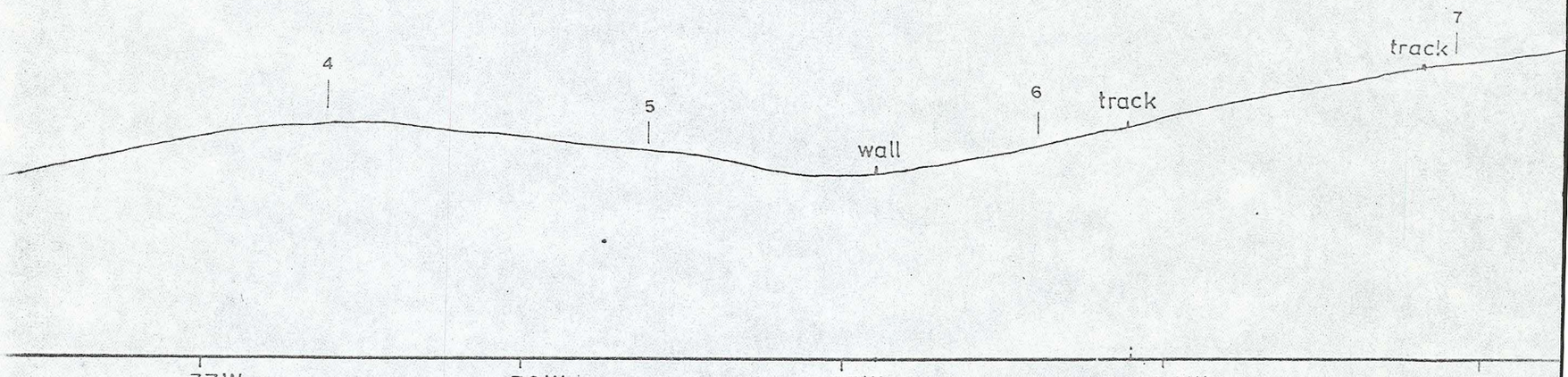


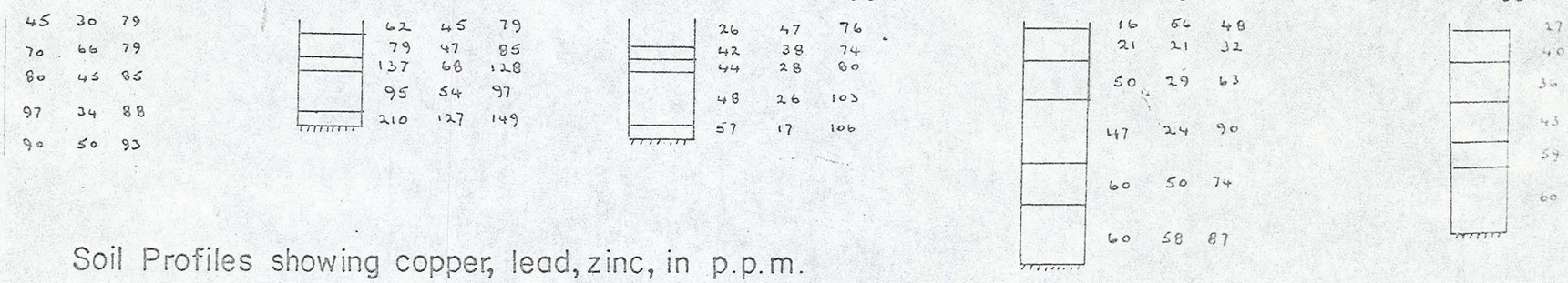
Profile showing pit positions



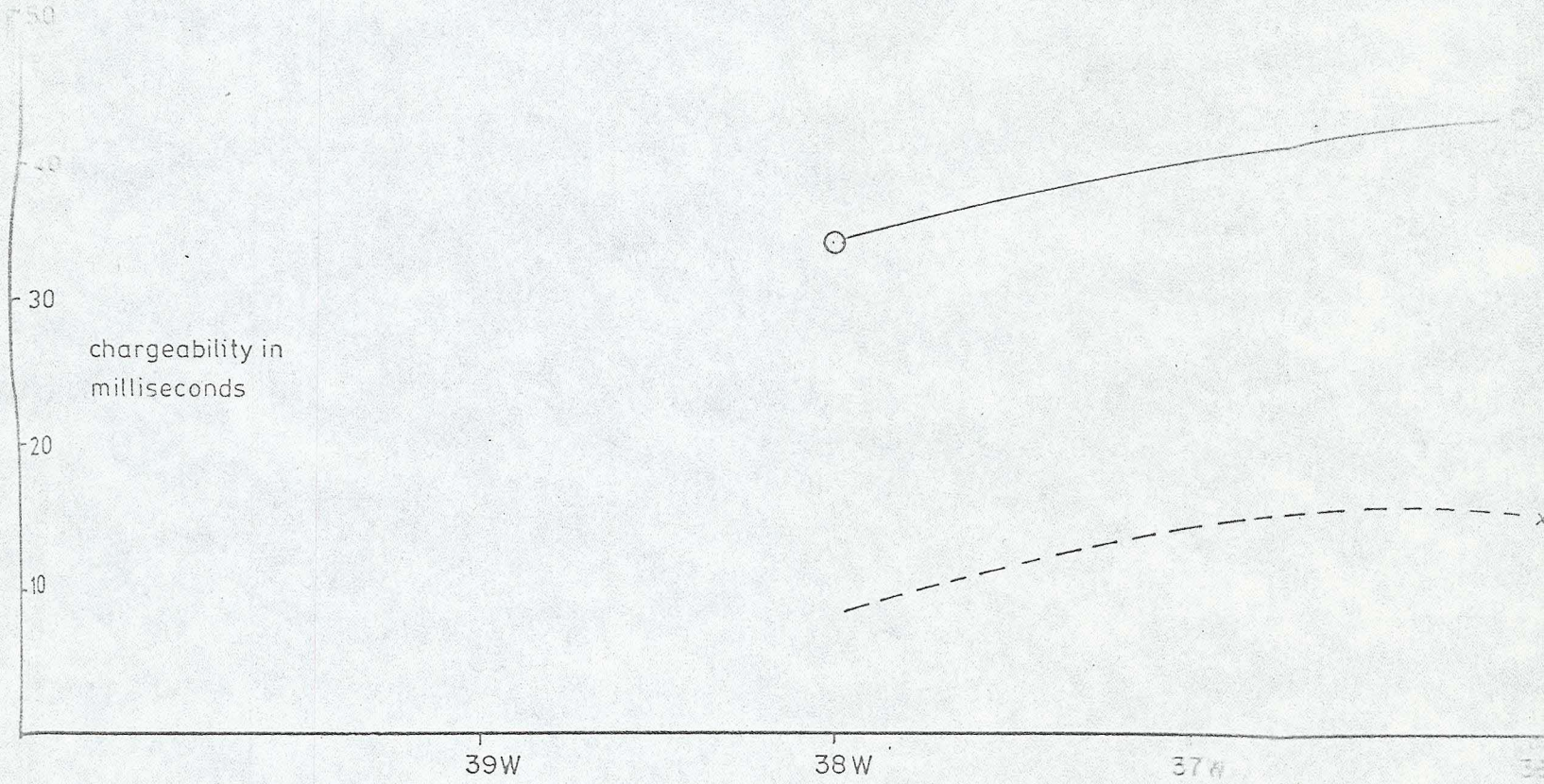


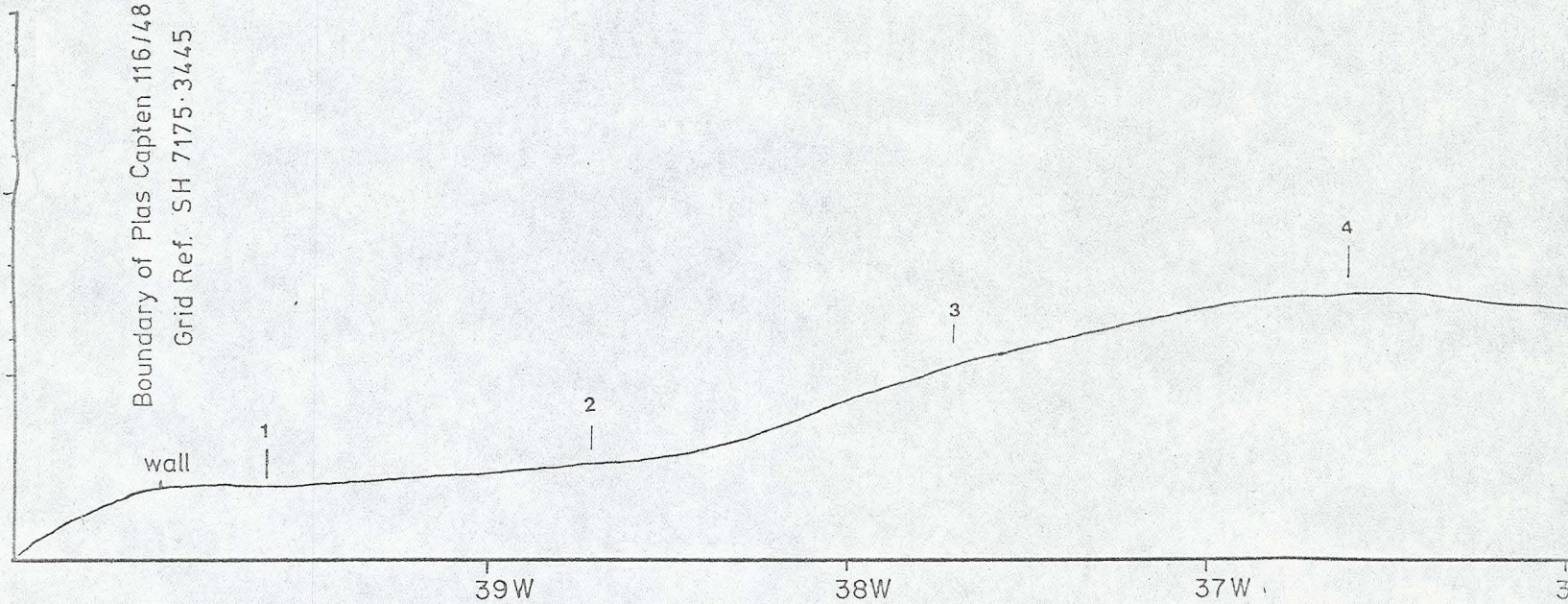
Topographic Profile showing pit

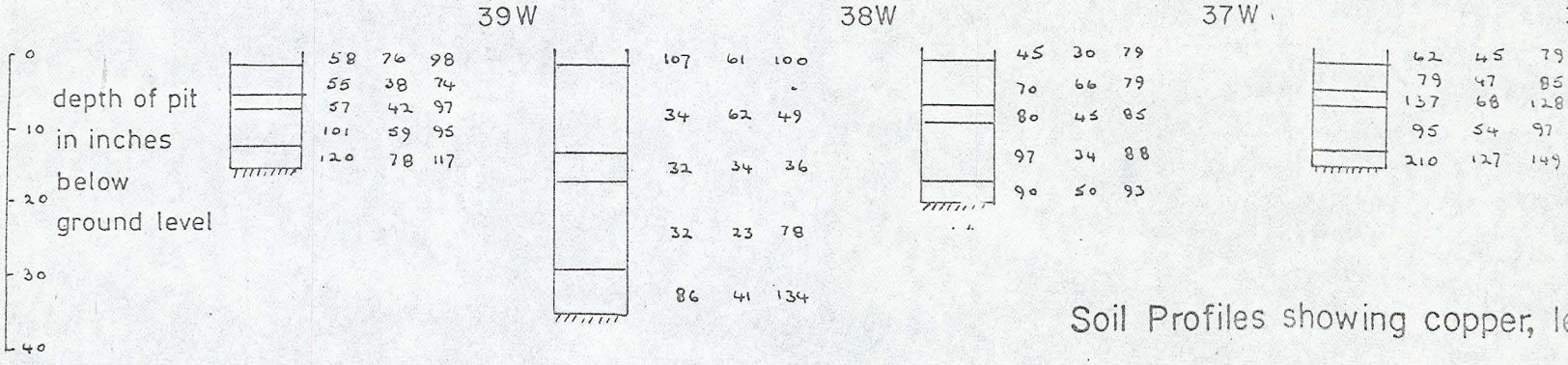




Soil Profiles showing copper, lead, zinc, in p.p.m.







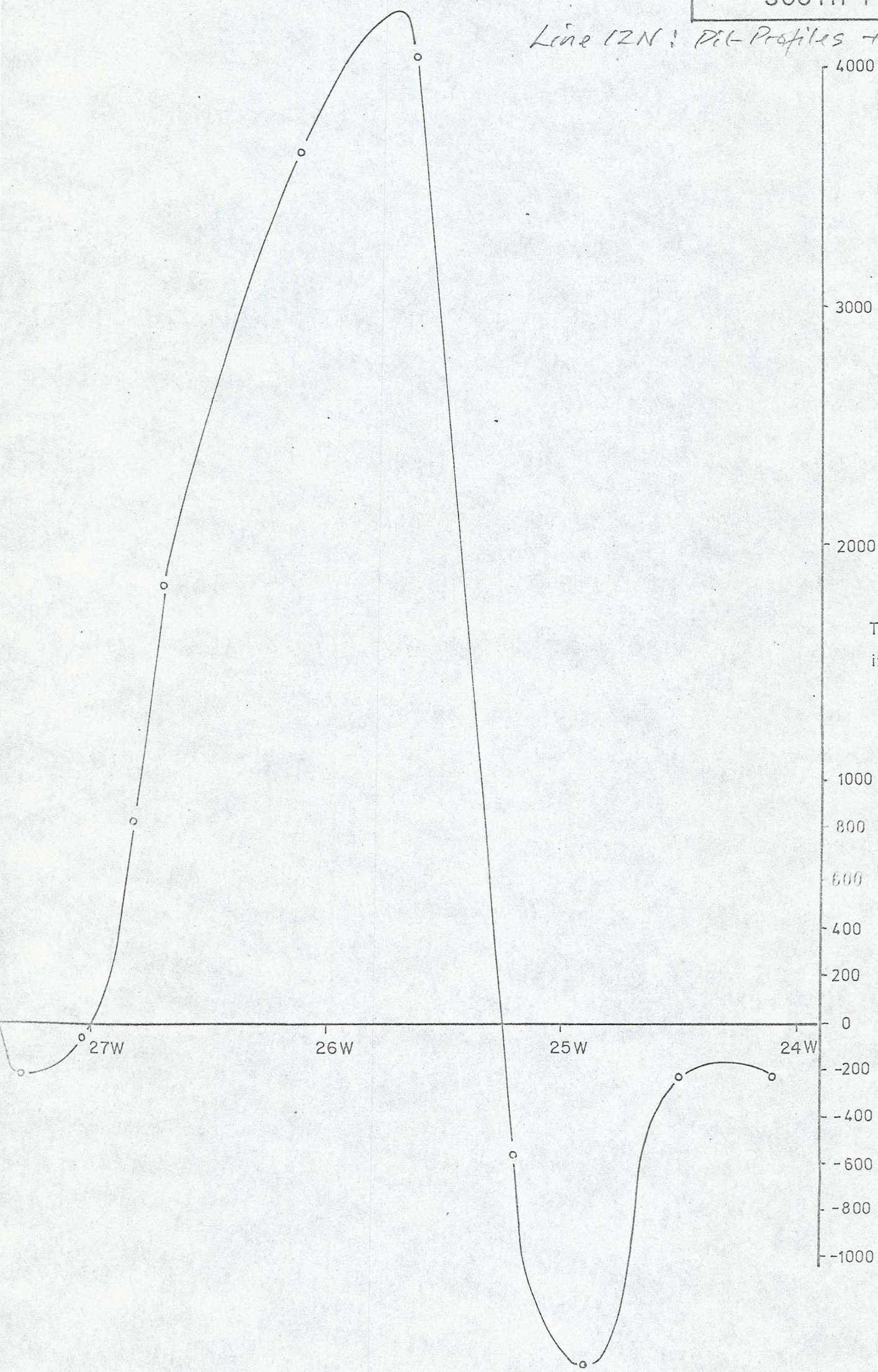
Soil Profiles showing copper, le

Drg. No: 1688/11

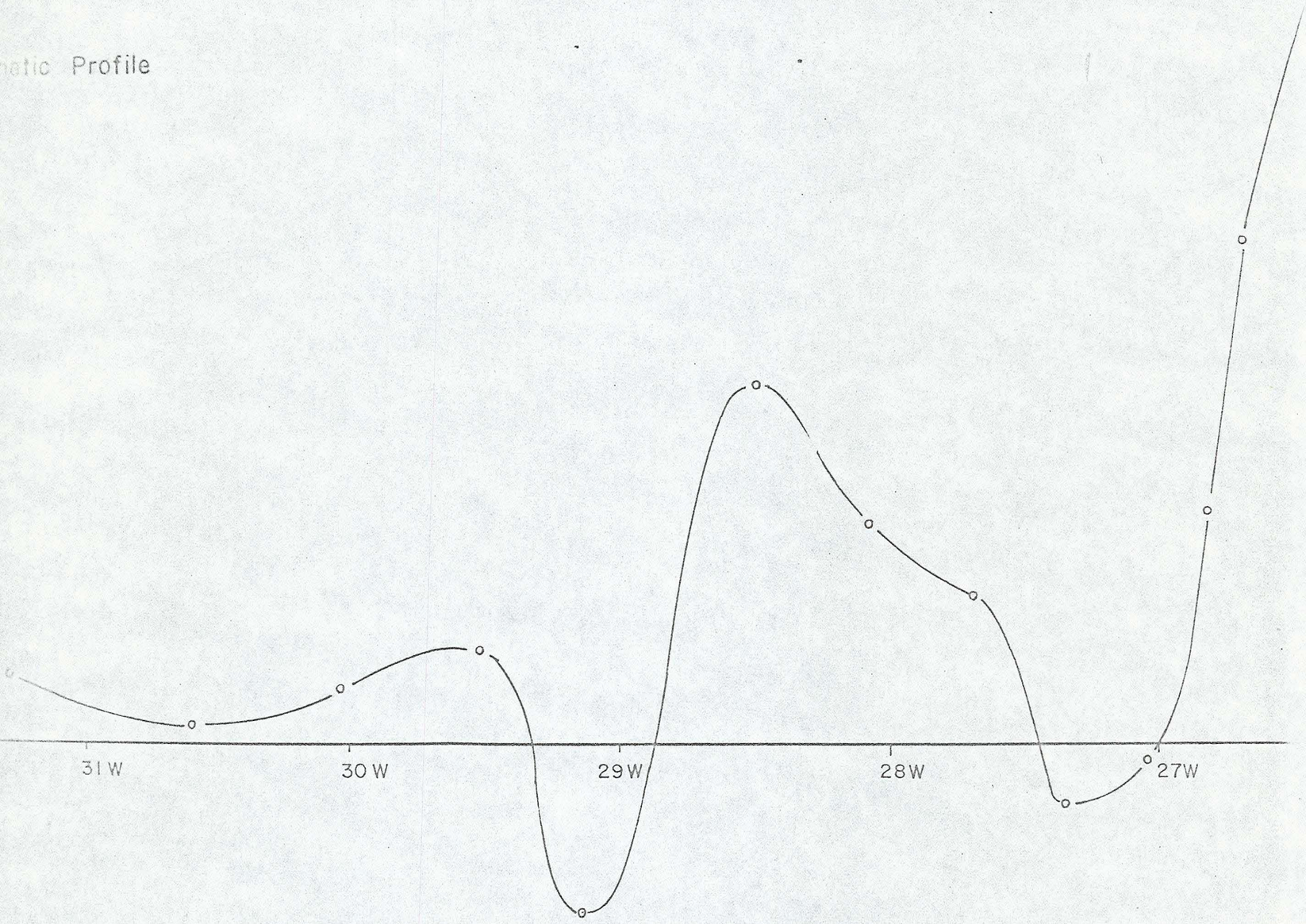
PROJECT 1688

SOUTH PRYSOR

Line 12N: Pit-Profiles + Mag + IP

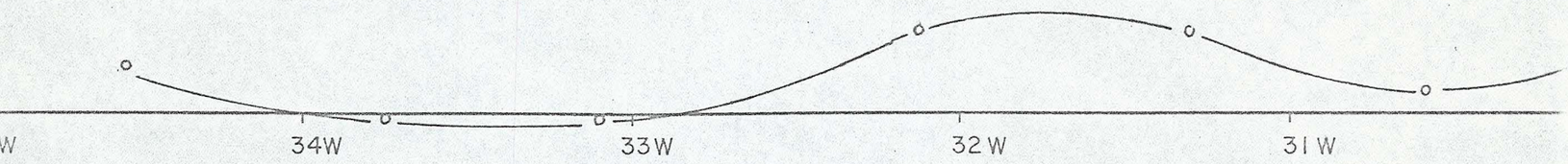


netic Profile

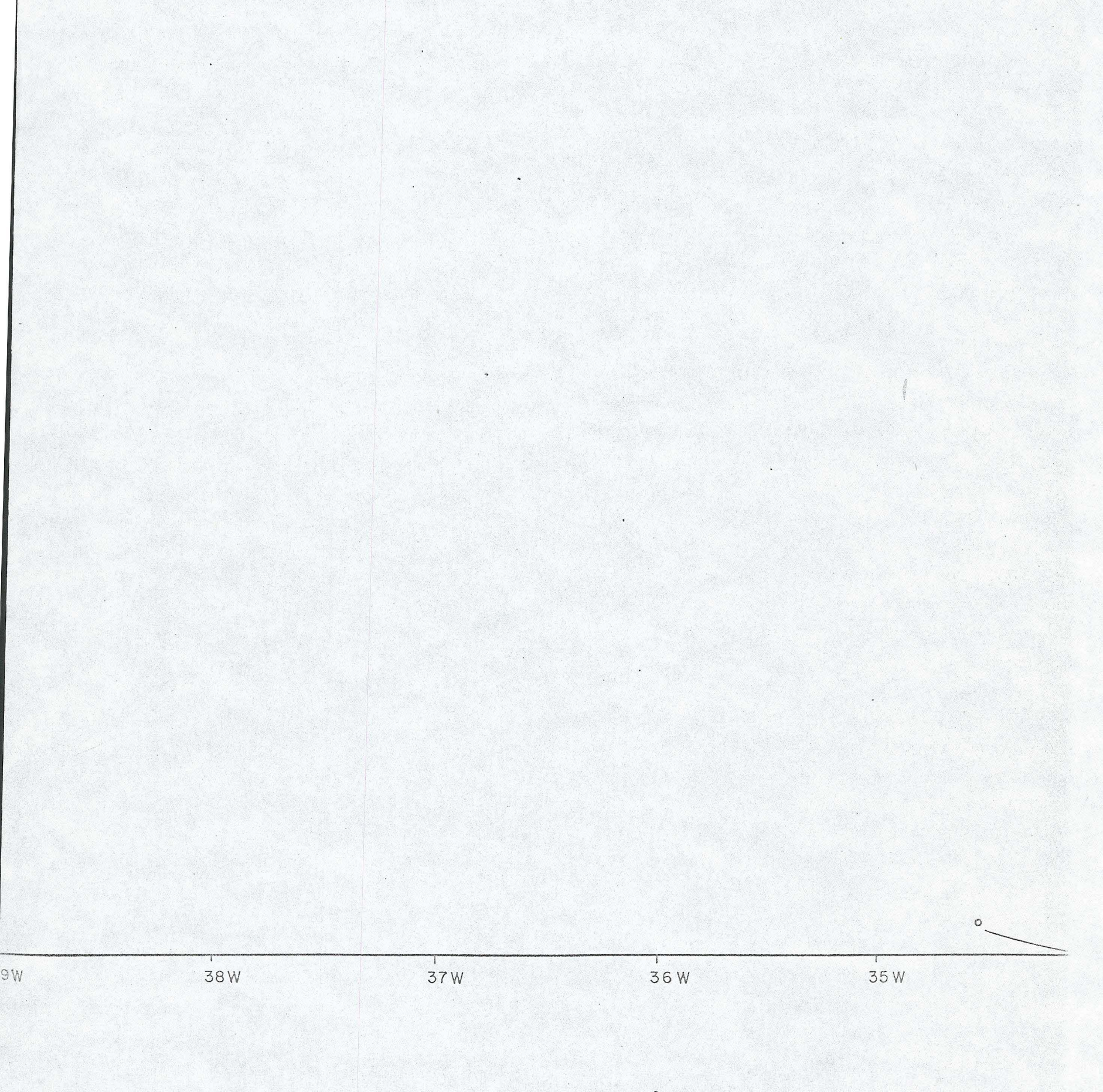


(a = 200 ft.)

Geomagnetic Profile



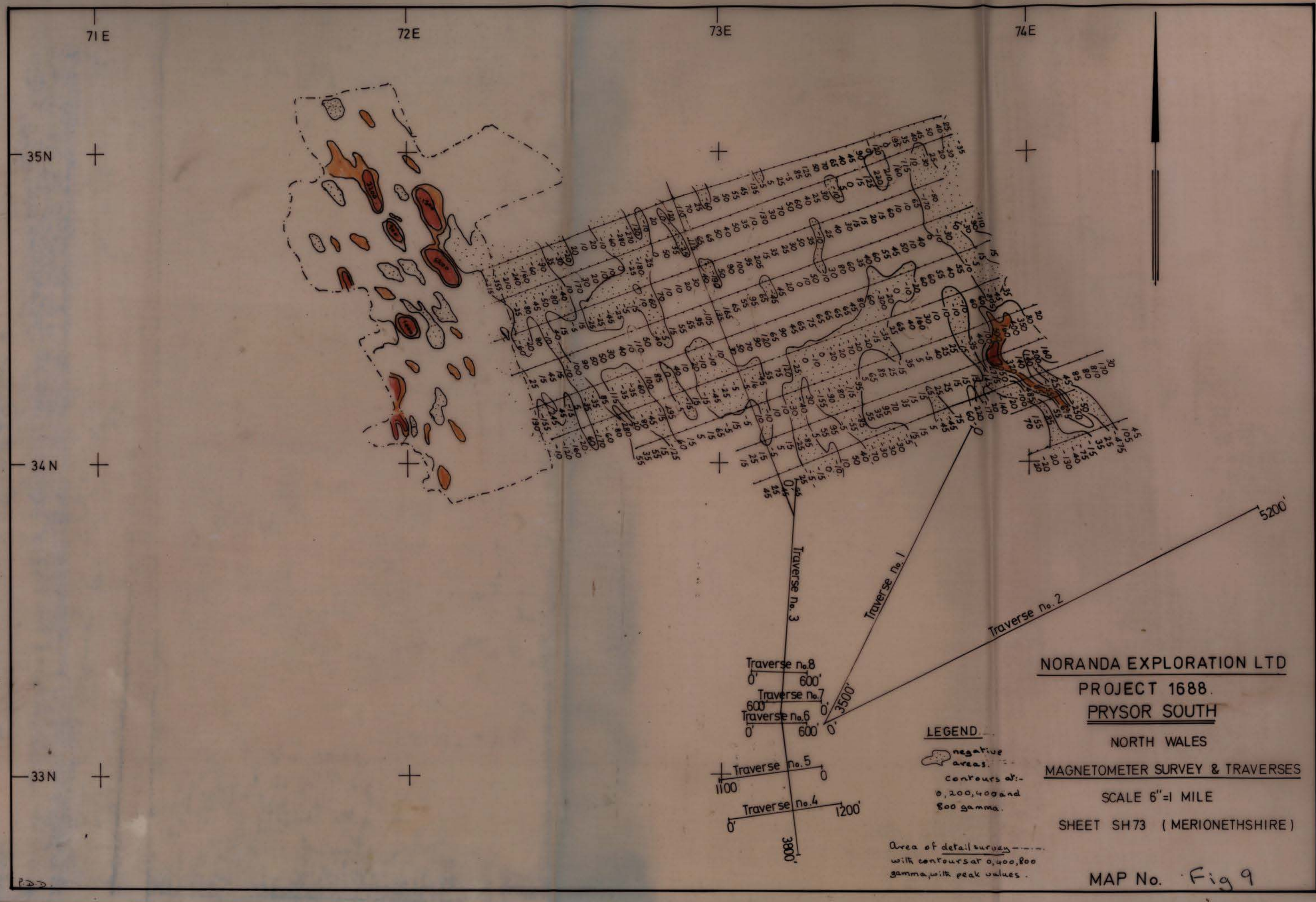
I.P. Response (a = 200 ft.)

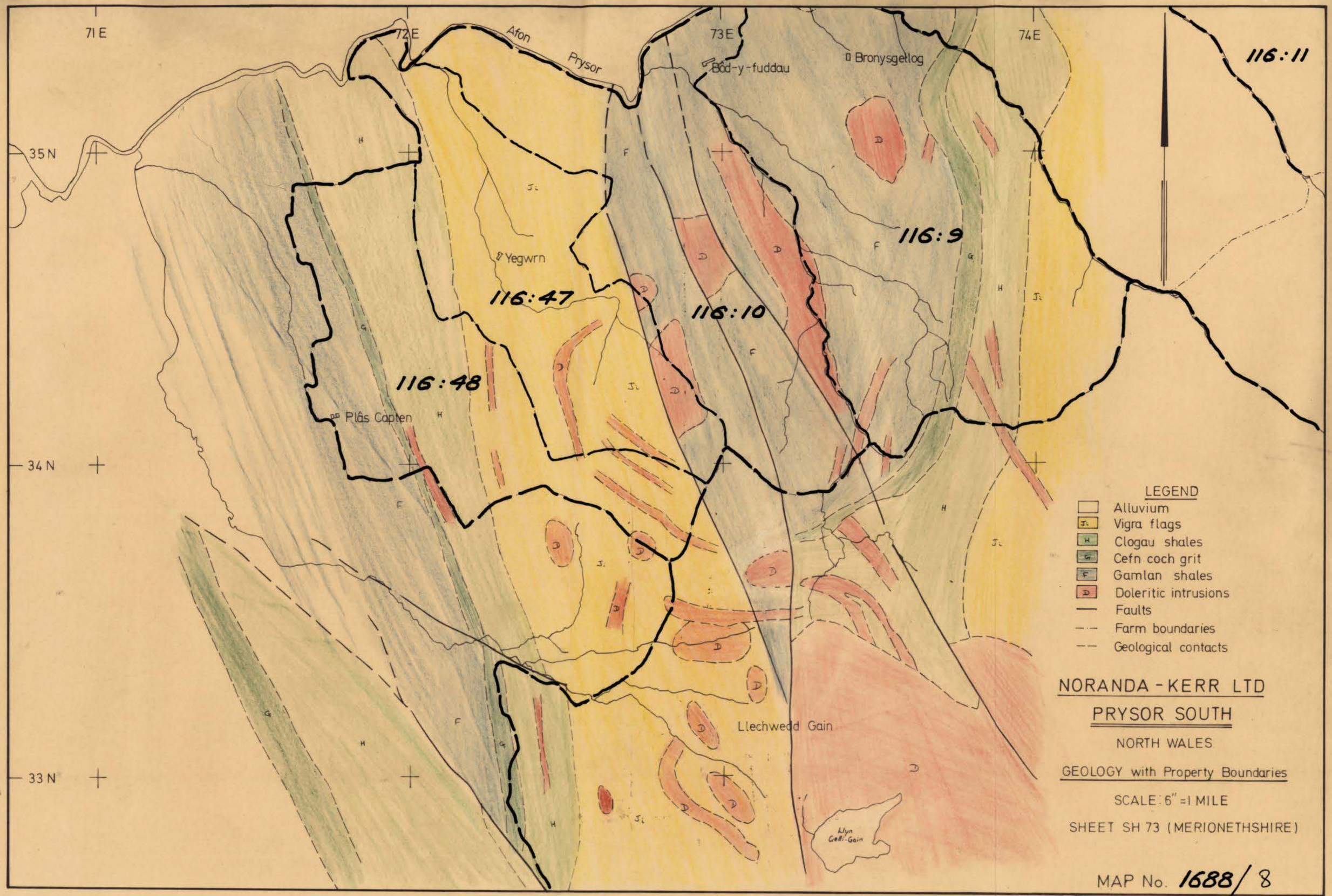

9W
38W
37W
36W
35W

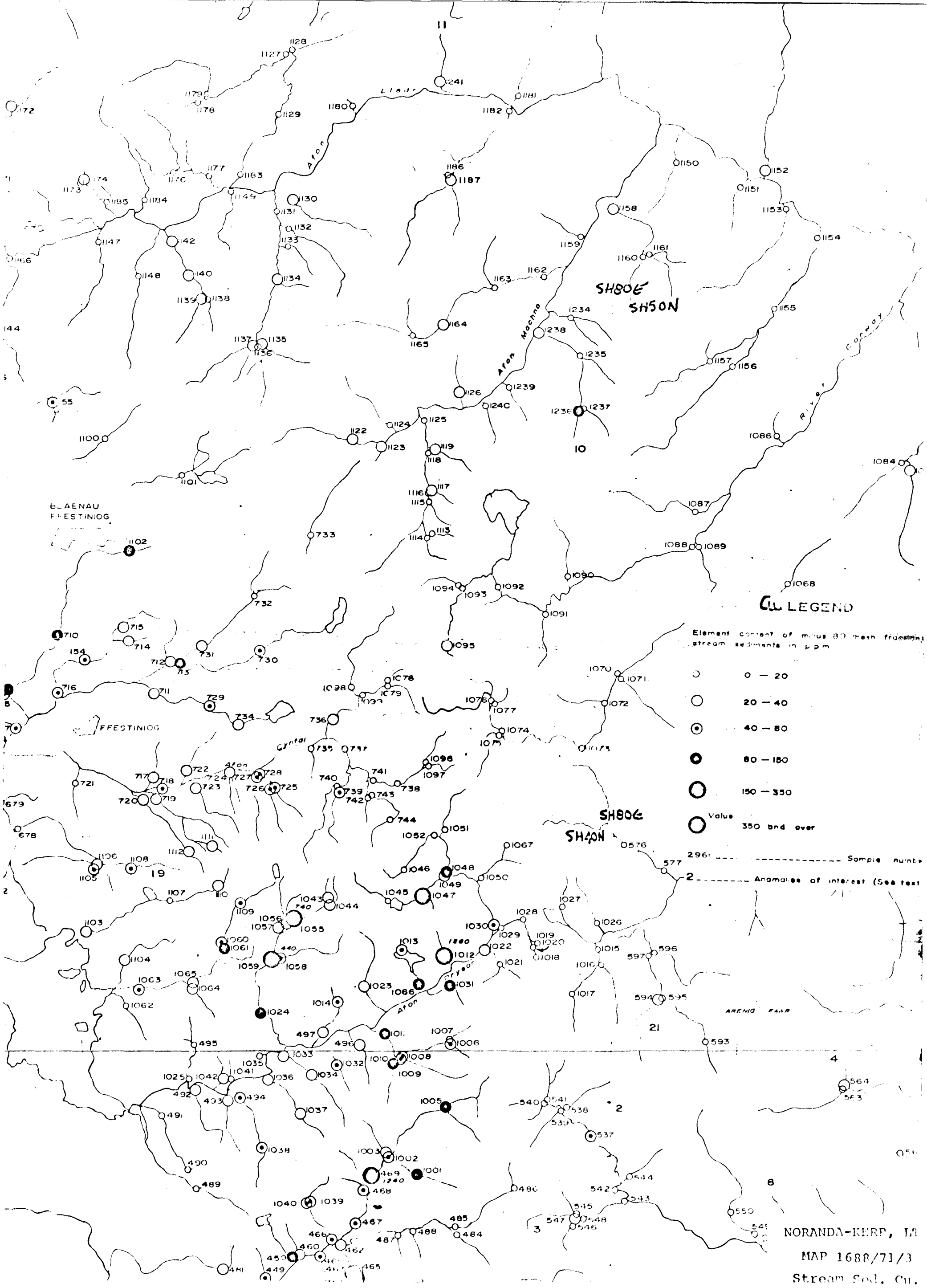
39W

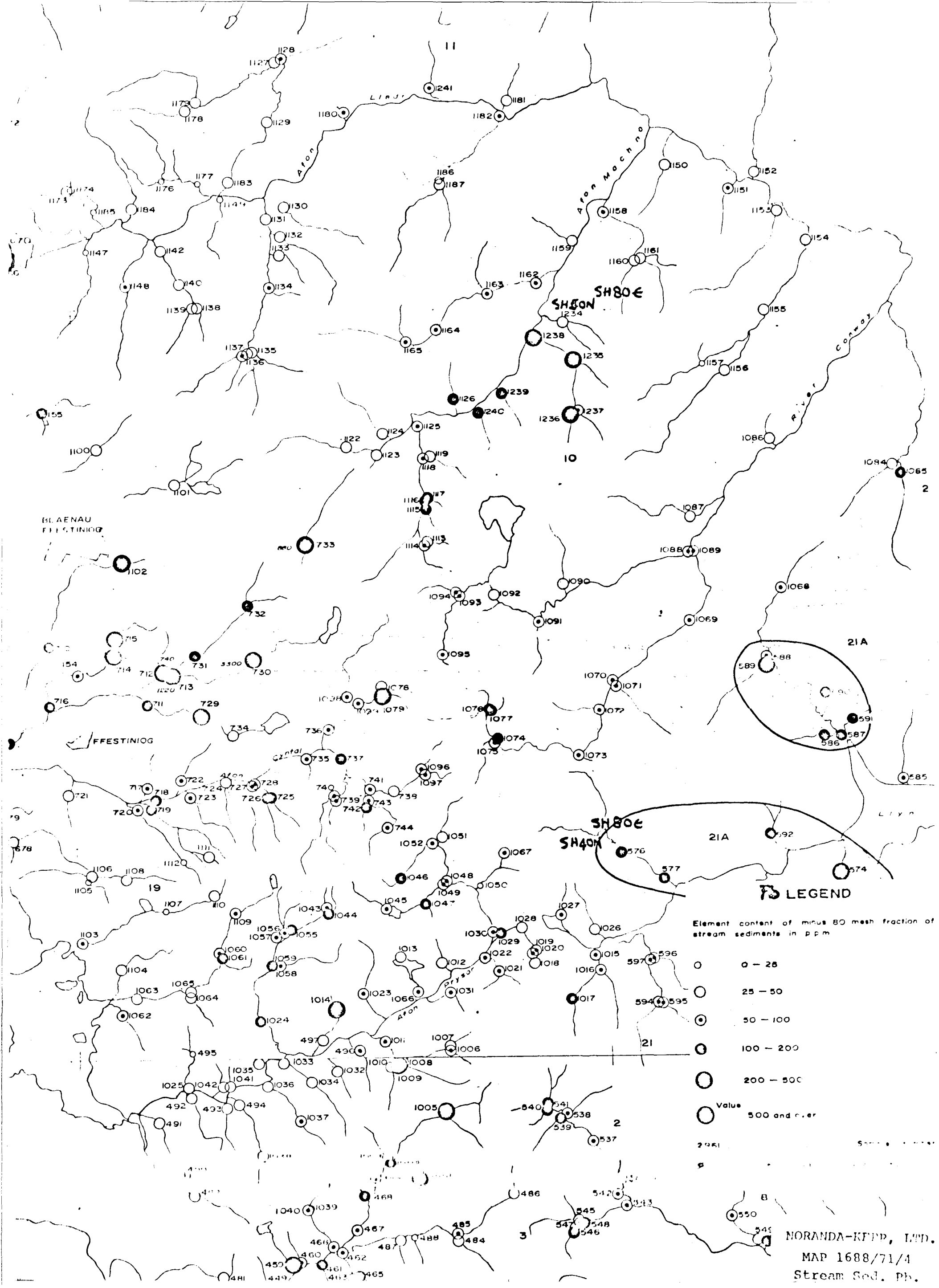
38W

37W

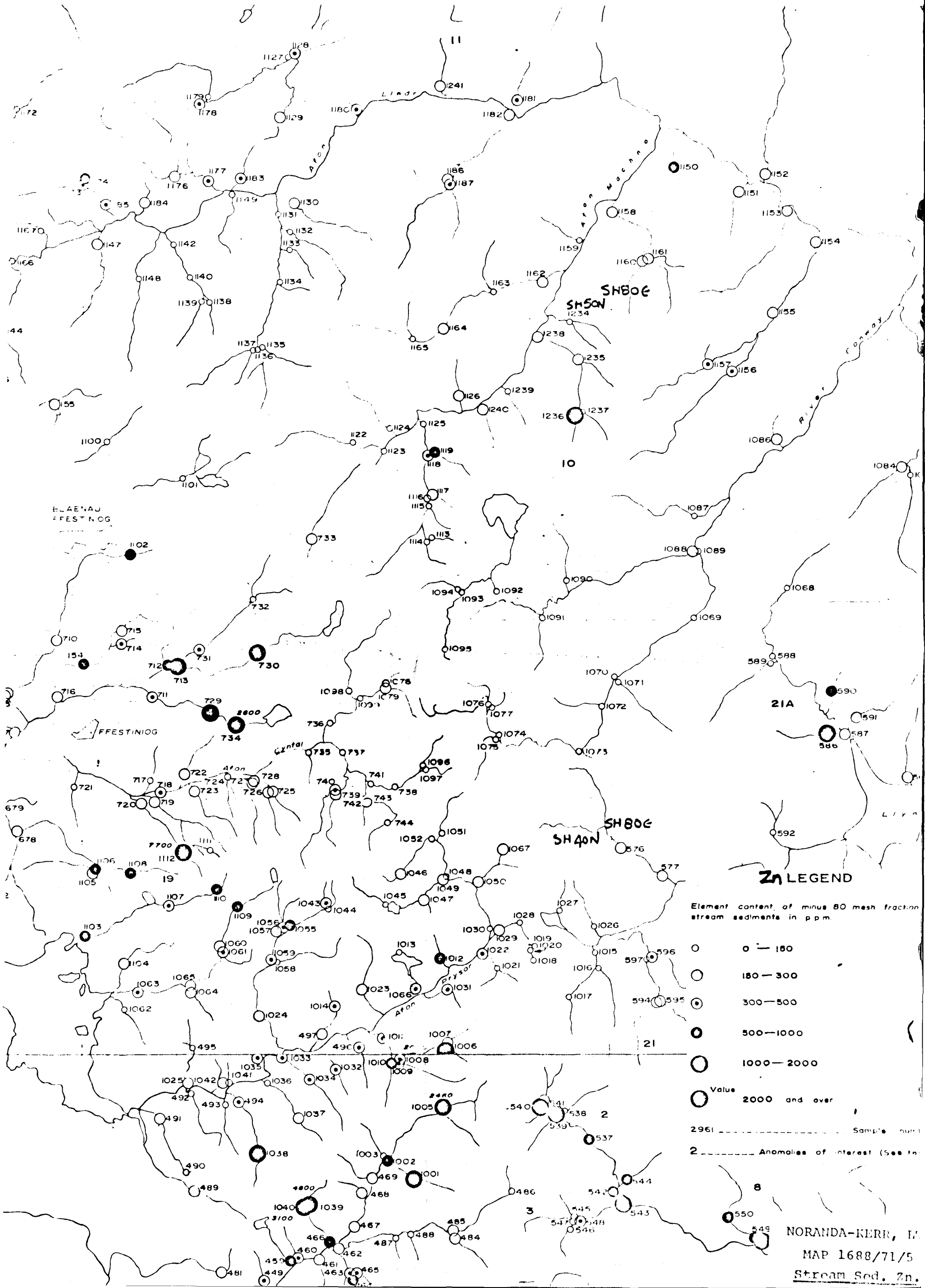

71 E
72E
73E
74E
35N
34 N
33 N
Traverse no. 3
Traverse no. 1
Traverse no. 2
5200'
3500'
Traverse no.8
0'
600'
Traverse no.7
600'
0'
Traverse no.6
0'
600'
0'
Traverse no. 5
1100
0
Traverse no.4
0'
1200'
3800'
LEGEND
negative areas.
contours at:- 0, 200, 400 and 800 gamma.
Area of detail survey
with contours at 0, 400, 800 gamma, with peak values.
NORANDA EXPLORATION LTD
PROJECT 1688.
PRYSOR SOUTH
NORTH WALES
MAGNETOMETER SURVEY & TRAVERSES
SCALE 6"=1 MILE
SHEET SH73 (MERIONETHSHIRE)
MAP No. Fig 9

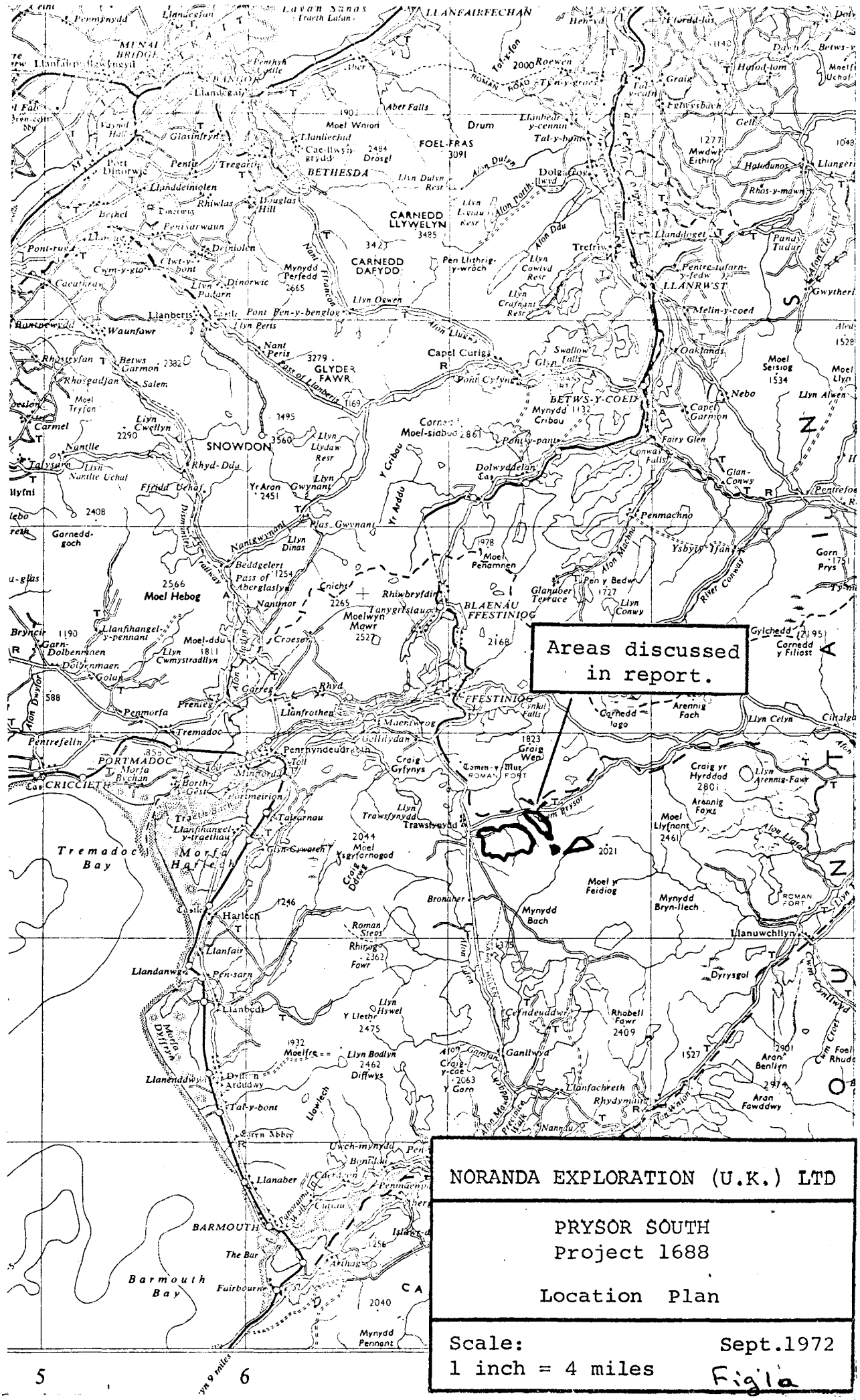

71 E
72 E
73 E
74 E
35 N
34 N
33 N
Afon Prysor
Bôd-y-fuddau
Bronysgellog
Yegwrn
Plâs Capten
Llechwedd Gain
Llyn Celli-Gain
116:11
116:9
116:10
116:47
116:48
LEGEND
Alluvium
Vigra flags
Clogau shales
Cefn coch grit
Gamlan shales
Doleritic intrusions
Faults
Farm boundaries
Geological contacts
NORANDA - KERR LTD
PRYSOR SOUTH
NORTH WALES
GEOLOGY with Property Boundaries
SCALE: 6" = 1 MILE
SHEET SH 73 (MERIONETHSHIRE)
MAP No. 1688/8


Cu LEGEND
Element content of minus 80 mesh fraction stream sediments in ppm
0 — 20
20 — 40
40 — 80
80 — 150
150 — 350
Value 350 and over
2961 Sample numbers
2 Anomalies of interest (See text)
SHBOE
SHSON
SHBOE
SHSON
BLAENAU FFESTINIOG
FFESTINIOG
Afon Machno
Afon Lledr
Afon Crafnant
Afon Conwy
River Conwy
ARENIG FAWR
NORANDA-KERR, LT
MAP 1688/71/3
Stream Sed. Cu.



NORANDA-KEPP, LTD.
MAP 1688/71/4
Stream Sed. Pb.


Zn LEGEND
Element content of minus 80 mesh fraction stream sediments in p.p.m.
0 — 180
180 — 300
300 — 500
500 — 1000
1000 — 2000
Value 2000 and over
2961 Sample number
2 Anomalies of interest (See text)
NORANDA-KERR, LTD.
MAP 1688/71/5
Stream Sed. Zn.
SHBOE
SHSON
SHAON
BLAENAU FFESTINIOG
FFESTINIOG
Afon Lledr
Afon Machno
Afon Prysor
Afon Cynfal
River Conwy
10
21A
21
19
2
8
3


Areas discussed in report.
LLANFAIRFECHAN
MENAI BRIDGE
BETHESDA
FOEL-FRAS
CARNEDD LLYWELYN
CARNEDD DAFYDD
LLANRWST
GLYDER FAWR
BETWS-Y-COED
SNOWDON
Moel Hebog
BLAENAU FFESTINIOG
FFESTINIOG
PORTMADOC
CRICCIETH
Tremadoc Bay
Harlech
Barmouth Bay
BARMOUTH
Llanuwchllyn
Llanaber
Llanfachreth
Ganllwyd
Llanenddwyn
Llanbedr
Llanfair
Llanfrothen
Tremadoc
Penmorfa
Pentrefelin
Llanberis
Capel Curig
Dolgellau
Trawsfynydd
Talsarnau
Maentwrog
Gellilydan
Penrhyndeudraeth
Llanfihangel-y-pennant
Llanfihangel-y-traethau
Llanddeiniolen
Llanddoget
Llandudno
Llangefni
Llanrhaeadr
Llanfairfechan
Roman Steps
Roman Fort
Craig Wen
Craig Gyfynys
Moel Wnion
Moel Ysgyfarnogod
Moel y Feidiog
Mynydd Bach
Mynydd Bryn-llech
Rhobell Fawr
Aran Benllyn
Aran Fawddwy
Arenig Fawr
Arenig Fach
Moel Llyfnant
Moel Penamnen
Moel Siabod
Moelwyn Mawr
Moel Seisiog
Moel Eilio
Moel Tryfan
Moel Wnion
Moel Hebog
Moel-ddu
Moel Tryfan
Moelfre
Moel Ysgyfarnogod
Moel Llyfnant
Moel y Feidiog
Moel Penamnen
Moel Siabod
Moel Seisiog
Moel Eilio
Moel Wnion
Moel Hebog
Moel-ddu
Moel Tryfan
Moelfre
Moel Ysgyfarnogod
Moel Llyfnant
Moel y Feidiog
Moel Penamnen
Moel Siabod
Moelwyn Mawr

COVERING COMMERCIAL IN CONFIDENCE

Department of Trade and Industry
Mineral Development Branch
Thames House South Millbank London SW1
Telegrams Advantage London SW1
Telephone 01-222 7000 ext 1389 or 2074

The Institute of Geological Sciences
Exhibition Road
London SW7

Your reference MRD. 84/17/5.
Our reference MMEI/FAME 77
Date 25 November 1971

FINANCIAL ASSISTANCE FOR MINERAL EXPLORATION

I attach a copy of an application with associated maps and papers from Noranda-Kerr Ltd for assistance towards the Pouyeor-Gamalli project. I would be grateful if you would consider the application and advise:

(i) Whether the applicants have appropriate expertise and/or experience to undertake the programme or have access to it.

(ii) Whether there is any reason why the project should not be supported.

(iii) Whether the proposed work programme is sensible in the light of available information.

(iv) If, in your view, there appear to be any abnormal features in the application which we should take into account in reaching a decision.

If the information provided is not adequate you should approach the applicant direct but we would be grateful if you keep us informed if anything significant arises from your discussions.

P 1

NORANDA-KERR LIMITED

APPLICATION FOR FINANCIAL ASSISTANCE
FOR MINERAL EXPLORATION

PROJECT 1688 - PRYSOR-GAMALLT
N. WALES

October, 1971

NORANDA-KERR LIMITED

APPLICATION FOR FINANCIAL ASSISTANCE
FOR MINERAL EXPLORATION

SECTION I : DETAILS OF APPLICANT

1. a. Name: Noranda-Kerr Limited, 6 Curzon Place, London W1, (01-629-9919)

   b. Registered Office: New Zealand House, Haymarket, London SW1

   c. Contact for further information: Dr. Barry Scott, or Mr. Hans R. Morris, 6 Curzon Place, London W1. (01-629-9919)

   d. Bank: Bank of Nova Scotia, 10 Berkeley Square, London W1.

2. Work to be carried out by Noranda-Kerr Ltd. personnel, with contracts let out to geophysical and drilling contractors where appropriate.

SECTION II : FINANCIAL INFORMATION

3. a. Articles of Association of Noranda-Kerr Limited have been submitted under separate cover.

   b. Accounts: Noranda-Kerr Limited was registered as a U.K. company on 2nd January 1970; the First Annual Audit for the year 1970 is complete and will be adopted at the next board meeting: a copy of this Audit has been submitted under separate cover. Auditors are Arthur Young, McClelland Moores & Co., of Moor House, London Wall, EC2 (01-628-4070); the partner concerned is Mr. Brian Walters.

   c. Parent Company: Noranda Mines Limited, 44 King Street West, Canada; a copy of whose Annual Report for 1970 has been sent under separate cover.

   d. Company and Directors are not associated with any business outside the Noranda Group, except that a Director, Mr. P.J. Gaynor, is a partner in the legal firm of McKenna & Co., 10 Whitehall, London SW1.

   e. Shares of Noranda Mines Limited are quoted on the Toronto Stock Exchange.

NORANDA-KERR LIMITED

APPLICATION FOR FINANCIAL ASSISTANCE FOR MINERAL EXPLORATION

SECTION III : DETAILS OF THE EXPLORATION PROJECT

4a. Name: Project No. 1688 - PRYSOR-GAMALLT

4b. Location: Mainly between Gamallt and Gain rivers, east of the Town of Ffestiniog, Merionethshire. (See attached map 1688/70/1)

not attached

Nat. Grid Ref.: SH 740380 (centre of area)

does this mean 1688/71/1

Field Office: Golan, Garn Dolbenmaen.

4c. Minerals Sought: Copper, Lead and zinc sulphides.

4d. Geology: See separate statement, Appendix 1.

5a. Mineral Right Owners: (See map 1688/70/1)

Crown Estate Commissioners (8608 acres)

not shown on 1688/71/1

107/3	Hafod Afferiad Sofl-y-Mynydd	- 190 acres	- John Roberts & Son.
107/4	Bryn Cyfergyd	- 140 acres	- G.W. Evans, Cwm Cyfnal, Llan Ffestiniog.
107/36	Cwm Farm	- 210 acres	- G. Davies, Cwm Farm, Ffestiniog.
116/9	Fronasgellog	- 550 acres	- J.G. Jones, Trawsfynydd.
116/10	Bodyfuddau	- 500 acres	- R.G. Williams, Bryngolan, Trawsfynydd.
116/11	Nantfudr	- 600 acres	- David Tudor, Cwm Prysor, Trawsfynydd.
116/47	Ysgwyrn Farm	- 150 acres	- G.R. Williams, Ysgwyrn Farm, Trawsfynydd.

What records 116/3/4/36 on 1688/71/1

5b. Exploration Access: A prospecting licence agreement with option to aquire mining rights has been negotiated with each mineral owner. Licences on additional land are being sought.

5c. Working Minerals: Terms have not been arranged.

6. Planning Permission: Has not been sought, and is not required for exploration work as now planned.

SECTION IV : DETAILS OF WORK PROGRAMME

7a. Description: In general the work programme is planned in the following stages:

1. Regional stream sediment geochemical survey.
2. Preliminary follow-up stream sampling.

2/.....

7a. 3. Soil geochemical sampling, on a grid pattern, with checks.
4. Geological examination, mapping and research.
5. Rock sampling or Trenching.
6. Geophysical surveys: usually induced polarization and magnetic.
7. Diamond drilling.

Stage 1 has been completed on the whole of the area; Stages 2,3 and 6 have been carried out in resticted parts, mainly around the Gamallt Mine area and on parts of properties 116/9, 116/10 and 116/11. Assistance is now being sought for further work in stages 3, 4 and 6.

Stage 3: Soil Sampling - North Part: Over about 7 square miles of Crown land, north of the SH 40N grid line approximately, and on properties 116/3, 116/4 and 116/36. This is planned on an 800 x 100 ft. grid pattern for 2450 samples, plus an estimated 840 samples for follow-up at a spacing, giving a total of 3290 samples.

- South Part: Detail follow-up soil sampling over the area surrounding the Prince Edward Mine (SH 740383), consisting of five lines each 1200 ft. long spaced at 800 ft. apart with samples every 100 ft., with local checks for anomalies found: about 120 samples in all.

Stage 4: Geological examination and mapping of about 2½ square miles of ground, mainly south of the Gamallt Mine, near the Prince Edward Mine and on properties south of the Prysor river.

7b. Date of Starting: November, 1971.
Duration: 2½ months

7c. Breakdown of Costs: See Appendix 2.

7d. Amount of assistance sought: Thirty-Five percent of the costs estimated in Appendix 2, about £1478.

8. Balance of Cost: To be financed by Company funds.

9. Signed: On behalf of Noranda-Kerr Limited,

BARRY SCOTT, Managing Director

DATE: October, 1971.

NORANDA-KERR LIMITED

PROJECT NO. 1688 - PRYSOR-GAMALLT, N. WALES

Application for Financial Assistance : APPENDIX 1

Geology of Area : (See maps 1688/71/1 and 2). The area is on the north-eastern and eastern part of the Harlech Dome structure. Sediments of upper Cambrian age dip at various angles away from the dome, with structual complexities due to strike and cross faulting and to the pressence of "greenstones". The latter rocks have been identified in the past as dolerite intrusions, but they may in part be altered volcanic rocks of extrusive origin. (See 1/4" - 1 mile index map)

Mineralisation known to date is related to faulting in greenstone areas. The best-known former mines, all small copper and lead producers, were Gamallt (SH 732432), Prince Edward (SH 740383) and Prysor (SH 730350).

Exploration Targets are low grade copper disseminations associated with fault structures in the greenstones.

Geochemical Anomalies NW 7, NW 9 (maps 1688/71/3 to 5) were located by 1970 stream reconnaissance survey. Other less marked anomalies NW 21, NW 22, NW 23, and NW 37 are included in the area and may be followed up, at a later date.

NORANDA-KERR LIMITED

PROJECT No. 1688 - PRYSOR-GAMALLT, N. WALES

Application for Financial Assistance October, 1971

APPENDIX 2 - COST ESTIMATES

Geochemical Soil Sampling

Total of 3400 samples at 30 samples collected per man-day, plus geochemical assaying for copper, lead and zinc.

1.	Salaries plus living expenses of samplers	£735
2.	Travelling expenses, 2 man crew, 56 days	224
3.	Field Office expenses	98
4.	Assaying and preparation cost	1,870
5.	London Office overhead	560
		£3487

Geological examination and supervision

6.	Salary plus living expenses, 28 days	£504
7.	Travelling expenses	224
		£728

Total: £4215

Basis of Compilation:

1. 113 man-days at £6.50, on Company records.
2 and 7. 56 days at £4.00, based on leased car costs
3. About 50% of £3.50 per field day, on Company records
4. 10,200 determinations at 15p., plus 10p. preparation of 3,400samples, based on Company laboratory costs and comparable contract charges.
5. About 66 % of £15.00 per field day, on Company records.
6. 28 days at £18.00, on Company records.