

CABRACH DISTRICT - AEL4

Geological Report - 1 January to 31 December 1972

During the period further geological, geochemical and geophysical work was undertaken, partly as a detailed geochemical investigation of favourable geological environments, and partly as the ground follow-up of the results of airborne electromagnetic and magnetic surveys flown prior to 1972.

1. DETAILED GEOCHEMISTRY.

Systematic soil sampling was undertaken over the Green Hill and Millhuie serpentinite masses (centred on grid references: 330150 and 410170 respectively). This work was carried out on a 1000' x 200' grid pattern, with samples being analysed for Cu and Ni by A.A.S. after hot acid extraction. High nickel and low copper values were encountered. The results are shown on copies of the field working sheets, Figs. 1 and 2.

2. GROUND FOLLOW-UP OF RECONNAISSANCE ANOMALIES.

The data from a previous HEM survey were screened in an office study, using available air photographic cover. This enabled the early elimination of many anomalies that could be attributed to cultural features. The remaining 18 anomalies were then followed-up on the ground, using a combination of electromagnetic, magnetic and soil geochemical methods, together with geological observation.

A summary of this follow-up work is provided in list form on Fig. 3 and the locations of the anomalies, together with an outline of the regional geology, are given on Fig. 4. The detailed results are shown plotted in 'profile' form on copies of the forty-five field working sheets, together comprising Fig. 5.

The expenditure of £666 on assays exceeded the sum of £500 that had been forecast due to the considerable amount of soil sampling that it was found necessary to undertake, both in examining the serpentinite masses and in following-up the geophysical anomalies.

It had originally been intended to undertake induced polarization traverses (as forecast in the programme outlined in the Supplementary Application) but a decision whether such work was still justified on the results obtained during the year, was postponed into 1973.

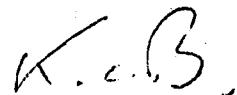
3. SOIL RESEARCH PROJECT.

The data relating to this project were assessed and correlated prior to the final write up. (The results may be found in the final report submitted in October 1973, which applies to most EVL areas and time periods, including Cabrach in 1972).

2.

4.. ENCLOSURES.

1. Green Hill - Soil geochemical analyses for Cu Ni in ppm. (Aberdeenshire LX).
2. Millhuie - Soil geochemical analyses for Cu Ni in ppm. (Aberdeenshire LISW LXINW).
3. List summarising the ground follow-up work.
4. Map showing the location of the eighteen anomalies investigated, together with an outline of the regional geology (Sheet 39, Strathdon).
5. Detailed 'profile' results of the EM, magnetic, and geochemical follow-up work.

K.C.B.
6.11.73

FINANCIAL ASSISTANCE FOR MINERAL EXPLORATION (M.E.I.G.A.)

COMPANY: EXPLORATION VENTURES LTD
PROJECT: CABRACH

REF: AE 14
MRD 84/5/9
MRD 144/5/9

The following Open File material is held by B.G.S. in London, Keyworth and Edinburgh. Available for public inspection from 16.10.80.

- Extract from application 6.8.71 with accompanying location plan, 4 miles : 1", OS sheet 5
- Geological Report 9.8.71 to 31.12.71; with enclosure drawing no. 1, Geology North Glenbuchat Estate (OS map Aberdeenshire L and LX) 6" : 1 mile. August '71 (photographic negative of this also) (submitted with MEG1, 15.3.73)
- Geological report 1.1.72 to 31.12.72 with 5 enclosures. Drawing no. 1 - soil geochemistry Cu, Ni values, Greenhill area (OS map no. Aberdeenshire LX). 1 : 10,560, July 1972

Drawing no. 2 - soil geochemistry Cu, Ni values, Millhuie area
OS map no: Aberdeenshire LISW, LXINW and Bannfshire XLIISW

Fig 3 Results of ground follow-up on HEM anomalies

Fig 4 Map showing the location of the 18 anomalies together with an outline of the regional geology. OS sheet 39, Strathdon; 1 : 63,360, 1972

Fig 5 45 field working sheets, detailed 'profile' results of the EM, magnetic and geochemical follow-up work

(Submitted with MEG1 3.12.73)

- Technical Report 1.1.73 to 31.12.73 (Submitted with MEG1 31.7.75)

MiNERAL EXPLORATION INCENTIVE SCHEME

APPLICATION
for assistance

1. Applicant Exploration Ventures Limited
Address 49 Moorgate, London EC2R 6BQ
Telephone No. 01-606-1020
Contact Mr. R.B. Riley or Mr. M.J. Lyn

2. Project title Cabrach

3. Applicants' organisation
& financial structure

Please see this Company's letter dated 6th August, 1971.

4. Outline of proposed project,
including geological considerations (see plan attached)

The Cabrach area is the northern portion of an 18 mile basic mass stretching south from Cabrach to Ballater. It is unratified and defined in the north by an E.W. structural trend running along the River Don Valley. Cu, Ni and related metals are sought.

5. Work programme and costs
of project

A stream sediment survey has been completed with anomalous results for Cu and Ni. Infill stream sediment sampling is needed together with a systematic detailed soil survey to delineate the anomalies. Ground magnetics, induced polarisation and geological mapping will also be used to assess the area.

Application for contributions under the Mineral
Exploration and Investment Grants Act 1972

Geological Report : Cabrach AE14

During the period 9th August to 31st December, 1971 geological mapping of the North Glenbuchat estate was undertaken. This involved the investigation of outcrop and float types representative of the Morven basic mass and envelope rock. Aerial photographs were studied as an aid to geological interpretation and for classifying electromagnetic anomalies resulting from a previous helicopter geophysical survey.

Enclosure *

/Geology - North Glenbuchat estate (Aberdeenshire L & LX.)

FIG. 3

RESULTS OF GROUND FOLLOW-UP ONH.E.M. ANOMALIES - CABRACH AREA

Anomaly No.	Ground Follow-up Traverses				REMARKS
	Geol.	E.M.	Mag.	Geochem.	
420A	✓	3	3	3	Heatherclad hillside. Boulders of bte. norite around. No artificial fea- ture visible.
421A	✓	3	-	-	No encouragement from G.E.M. No further work required at this stage. Terrain effect possible.
422A	✓	3	3	3	No artificial features obvious. Near contact of granite rock.
422B	✓	3	3	3	No artificial feature. Near graphite/pyrite slate boun- dary. No explanation for mag.
424A	✓	3	1	-	One mag. traverse is consid- ered necessary to determine any correlation with the G.E.M.
424B	✓	3	1	-	400ft. east of fence. No coincident artificial fea- tures.
425A	✓	3	1	-	Wet platy overburden. G. mag. run to check any cor- relation with G.E.M.
426A	✓	3	-	-	Anomaly on fence 250ft. from peg.
426B	✓	3	3	1	No artificial cause. Shat- tered qtz. porphyry nearby, intruding biotite gneiss.
426C	✓	3	-	-	G.E.M. traverse two shows odd effect caused by wire lying about, a lot of arti- ficial features prob. cause.
427A	✓	1	-	-	Anomaly not far west of many fences and farm build- ings, but is recorded well clear of this. <u>Cable</u> .
427B	✓	1	-	-	Both in graphitic schist zone, 427B coincides with a lead pipe inside a brick pipe.
427C	✓	1	-	-	Offset 30ft. from deer fence which is probable cause.

RESULTS OF GROUND FOLLOW-UP ON
H.E.M. ANOMALIES - CABRACH AREA

Anomaly No.	Ground Follow-up Traverse				REMARKS
	Geol.	E.M.	Mag.	Geochem.	
428A	✓	3	-	-	Broad indefinite low amplitude anomaly near ditch.
428B	✓	1	3	1	G.E.M. anomaly coincident with deer fence not peg. Mag. to NW of fence unrelated.
429A	✓	3	1	-	Anomaly 300ft. E. Associated with track. Small anomaly on peg.
429B	✓	3	-	-	Slight I Phase response. No O.P. response.
431C	✓	1	-	-	Fence.

CABRACH DISTRICT - AEL4

Technical Report for the Period 1st January - 31st December, 1973.

During the period two geochemical surveys were carried out, in this district as part of wider regional assessment programmes, throughout the western half of E.V.L.

1. Geochemistry

1.1. Multi-Element Analyses

Samples of stream sediment material selected on the basis of approximately one per square kilometre, were analysed spectrographically for fifteen elements:- Bi, Co, Cu, Cr, Pb, Mo, Ni, Ag, Sn, W, V, Zn, Zr, Ti, Mn. Additionally, each sample was analysed for arsenic content by atomic absorption methods. This work formed part of a regional investigation which covered much of the western half of E.V.L. Its object was to check for concentrations of unusual elements, or to establish the presence of possibly significant pathfinder elements. None of obvious economic importance were indicated in the Cabrach District. The relevant plans and data tabulations may be found with the submission for [REDACTED] and Morven Districts.

1.2. Metal:Sulphur Ratios [REDACTED] Fig. 1 West Insch)

A number of samples of basic and ultrabasic sulphide-bearing rocks were analysed for total Cu, Ni & S. This work formed part of a regional study of copper:sulphur and nickel:sulphur ratios throughout the Aberdeenshire/Banffshire basic complexes. None of the results for the Cabrach District suggest that the area is particularly favourable for economic nickel sulphide concentrations.

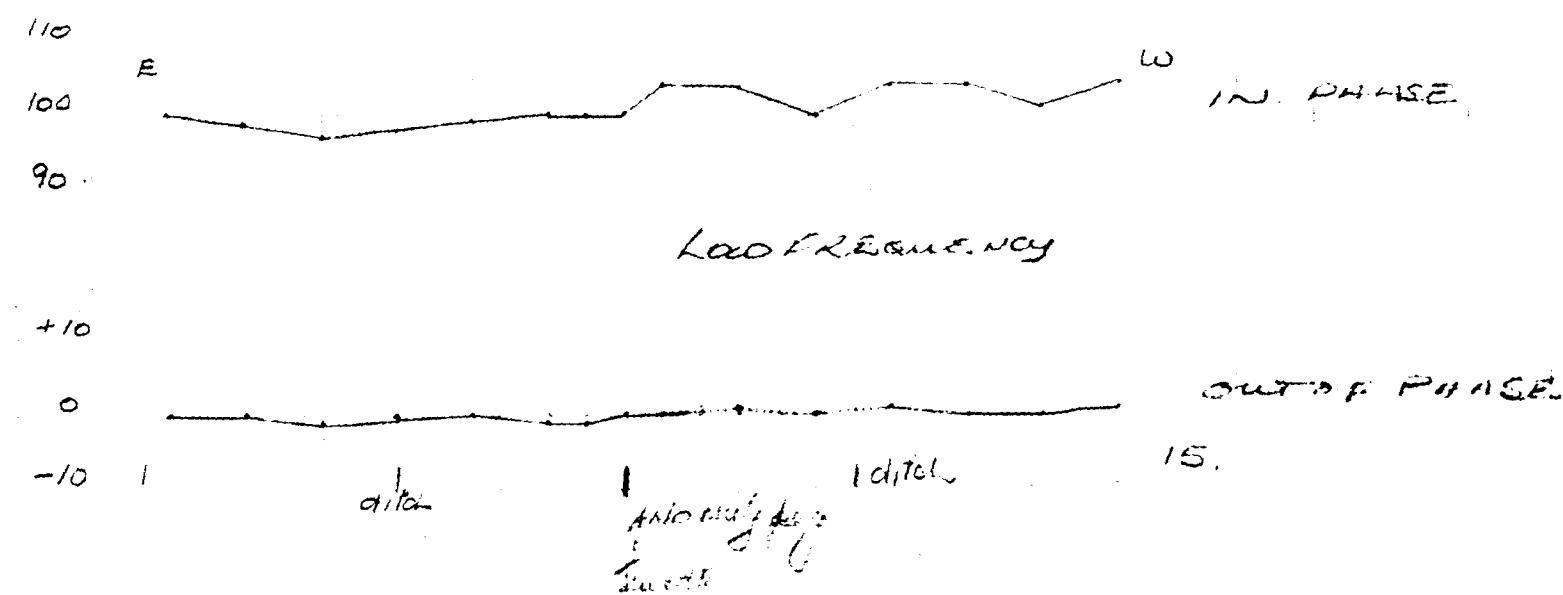
2. Soils Research Project

Statistical studies were conducted on material previously collected. Data were collated and results then written up. These results can be found in the final report submitted in October, 1973, which applies to most E.V.L. areas and time periods, including Cabrach, 1973.

Anomaly 429.0 PRIMARY TRAVERSE EM sum 200ft cable

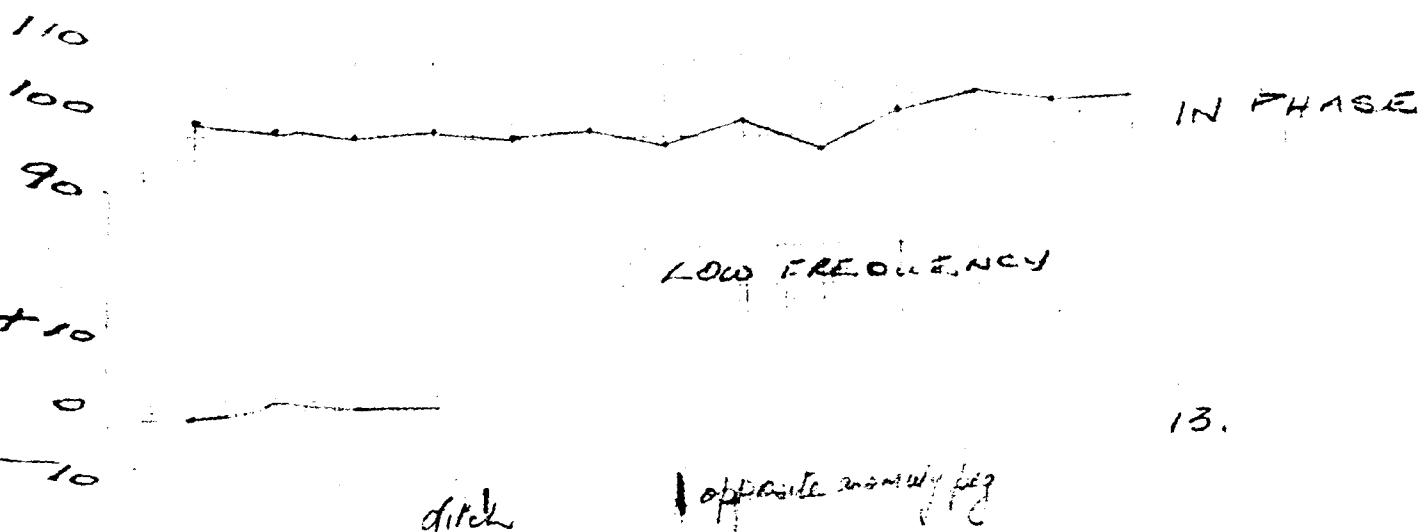
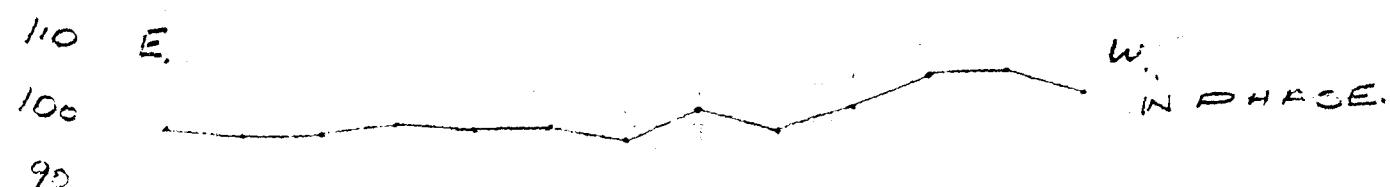
10-6-72

Fig 5



WOMALY 429 B TRAVERSE 2.

10-6-72



ANOMALY 429 R. TRAVERSE 3

10.6.72

NO E



90.

HIGH FREQUENCY

+10

0

-10

out of phase

13.

+10

E.

100

90

IN PHASE

Low frequency

+10

0

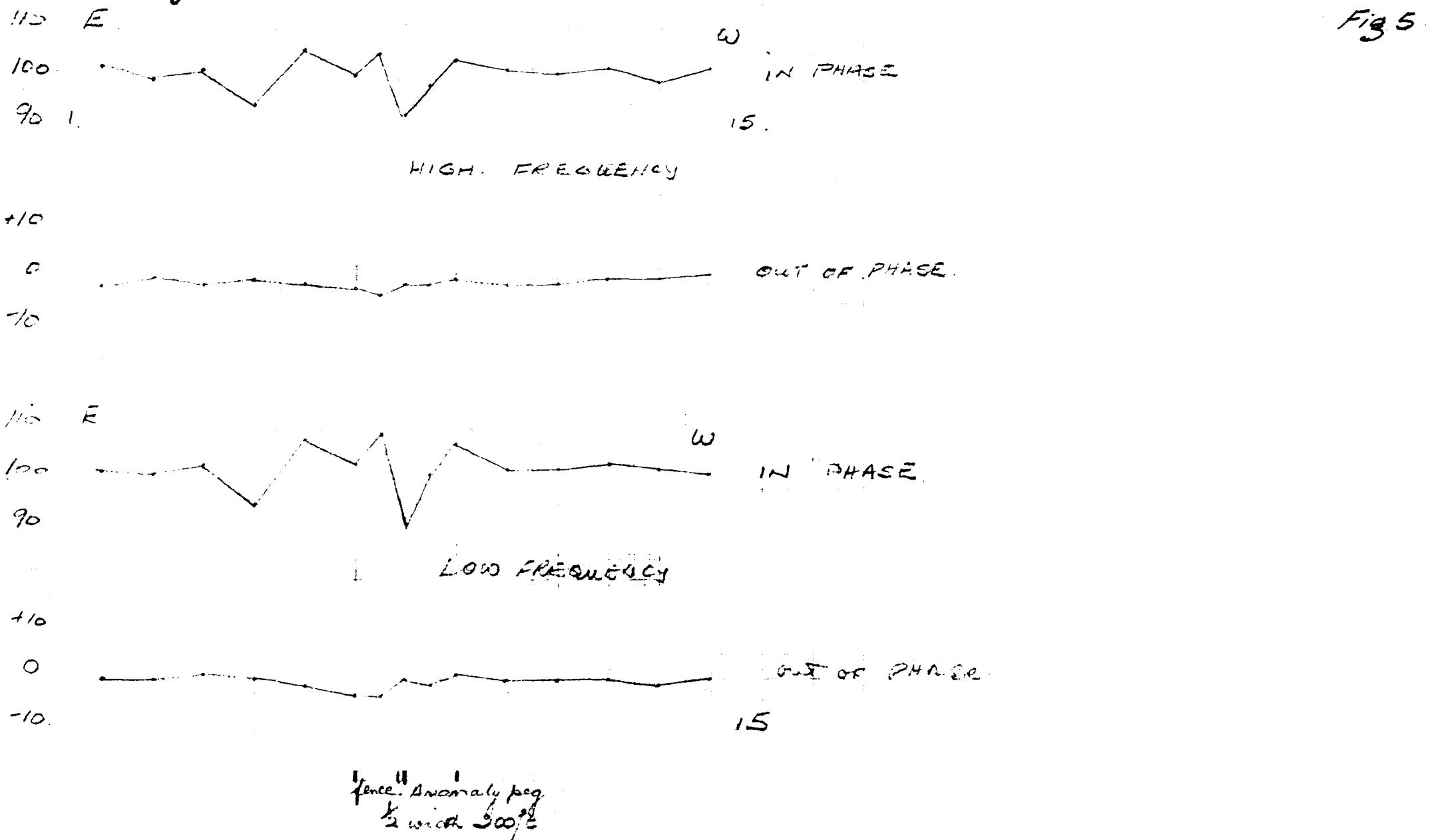
-10

out of phase

13

1 opposite anomaly peg

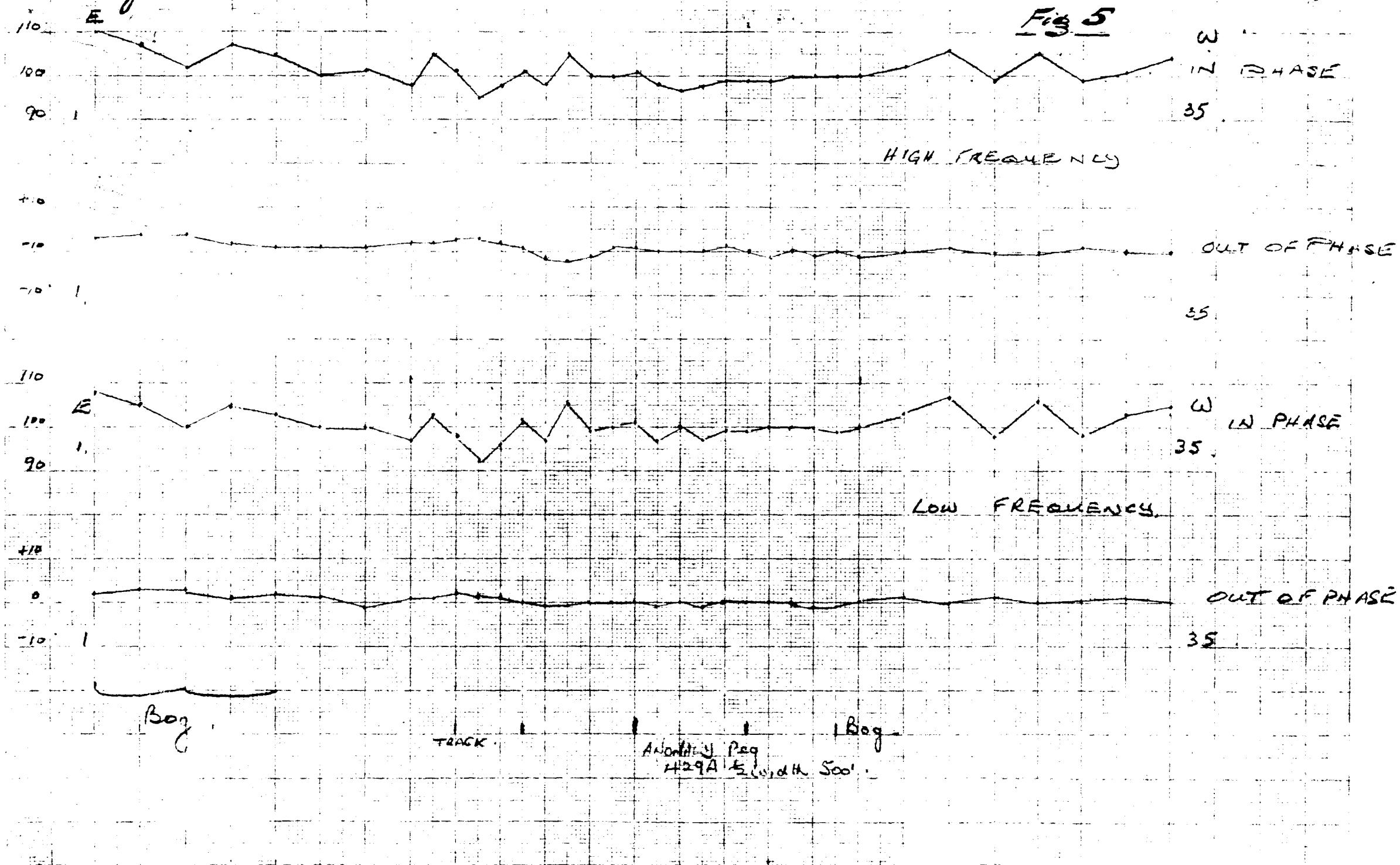
ANOMALY 431C PRIMARY TRAVERSE. EM Gun. 200 ft cable 10.6.72



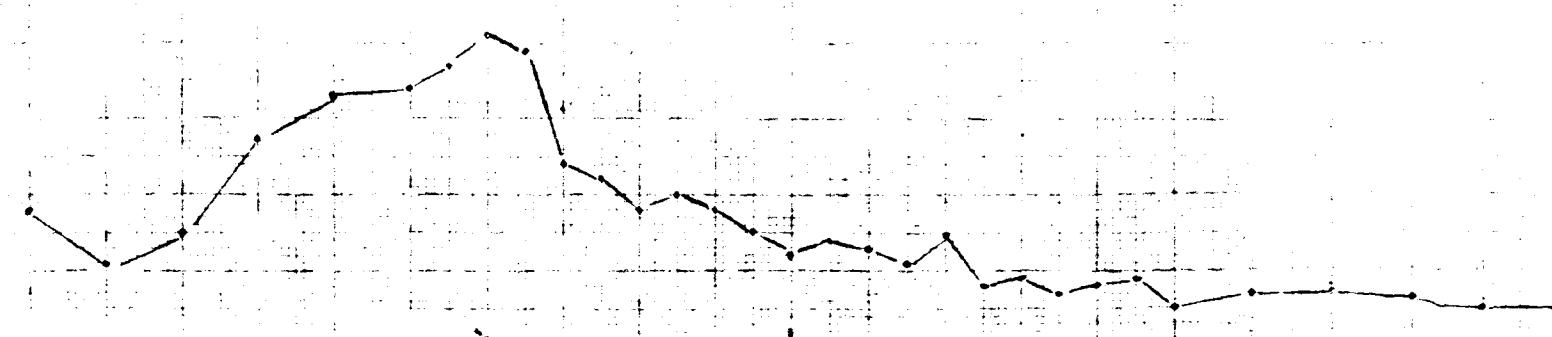
Anomaly 429 A PRIMARY TRAVERSE E.M. Sun - 200ft cable 20/4/72

94
PA

Fig 5

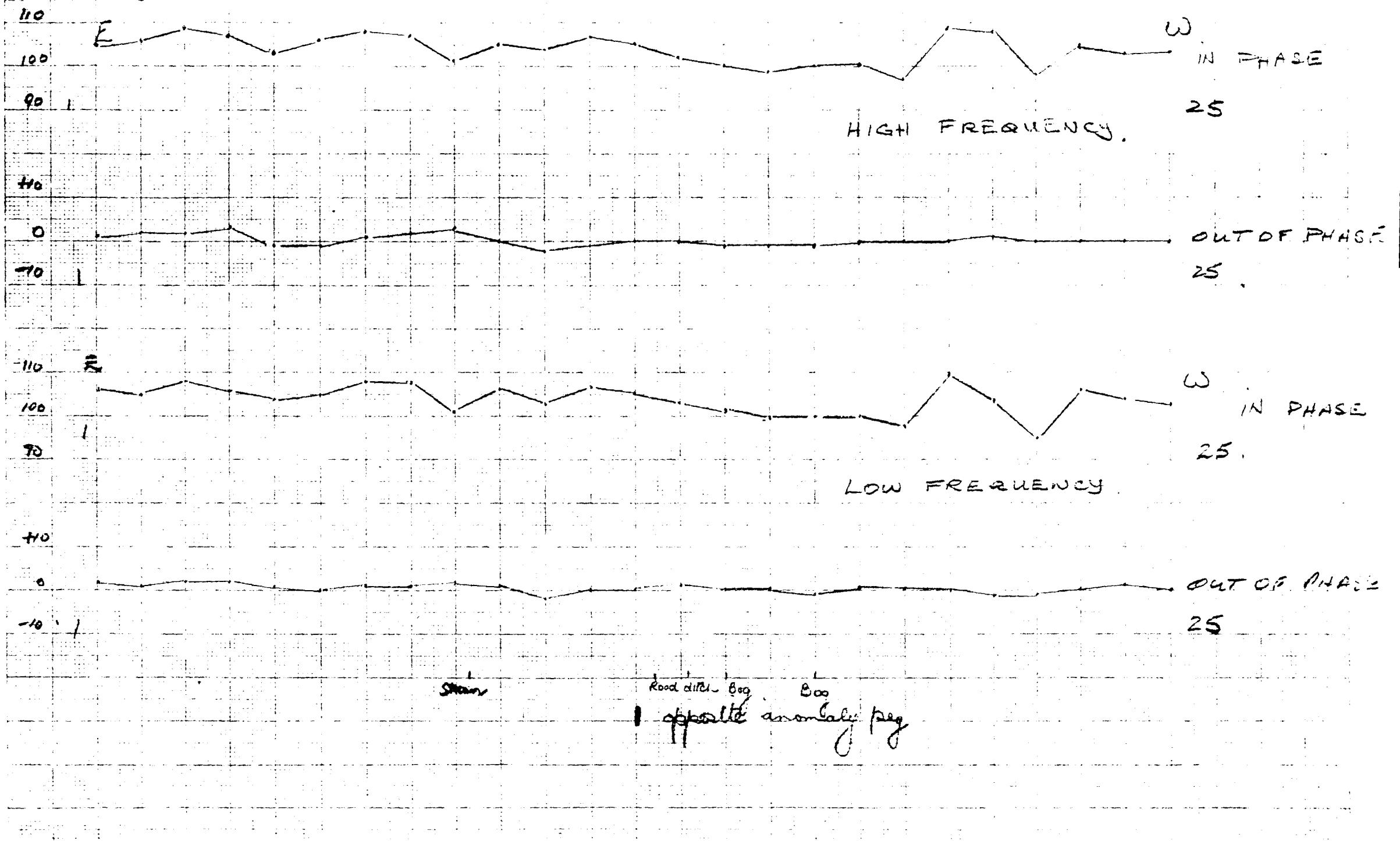


MAG (8)



Anomaly 429A TRAVERSE 2 E.H.Gun 200ft scale 20/4/72.

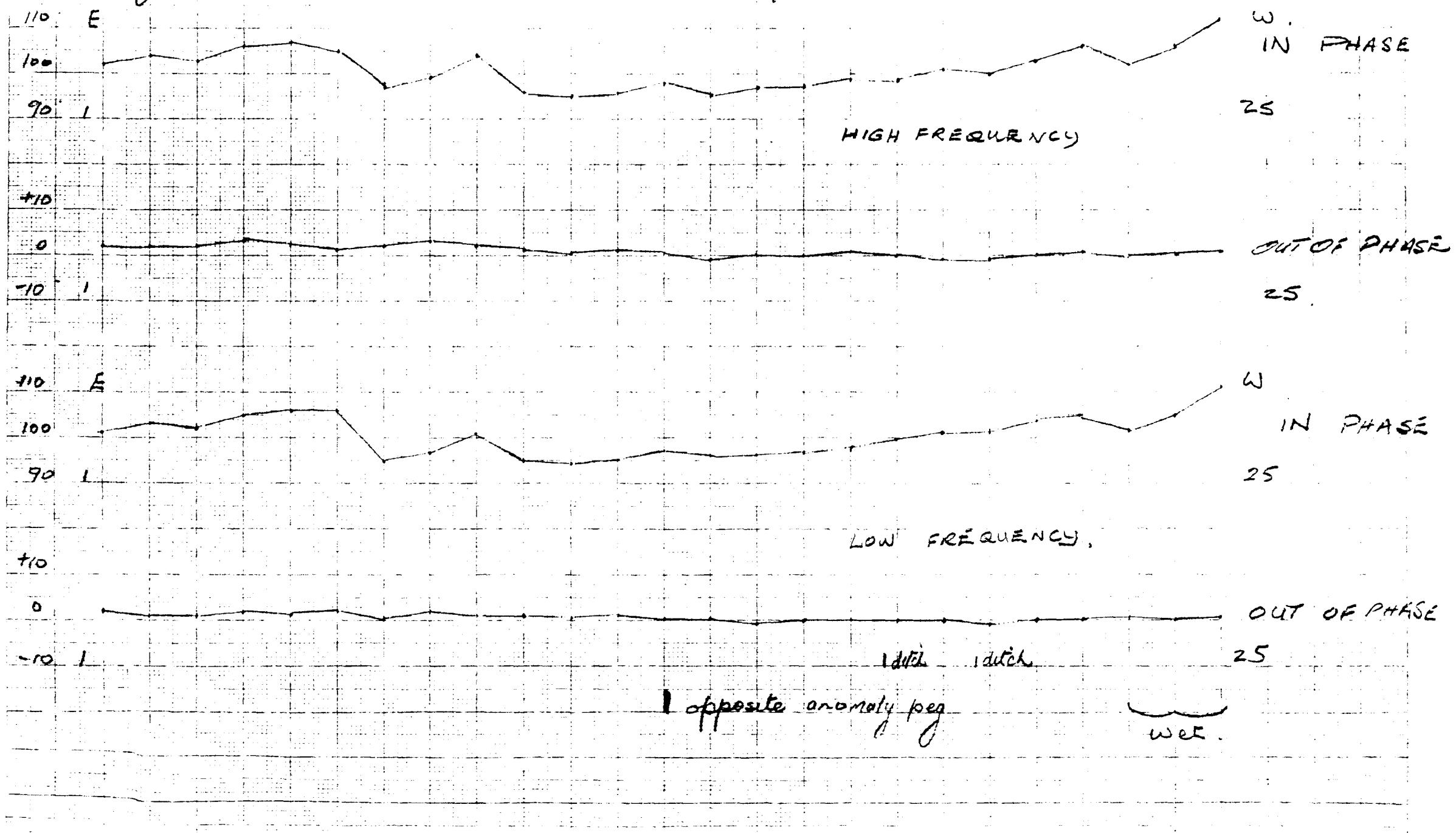
6211



Anomaly 429A TRAVERSE 3. E.M. Gun Zono cables

20/4/72.

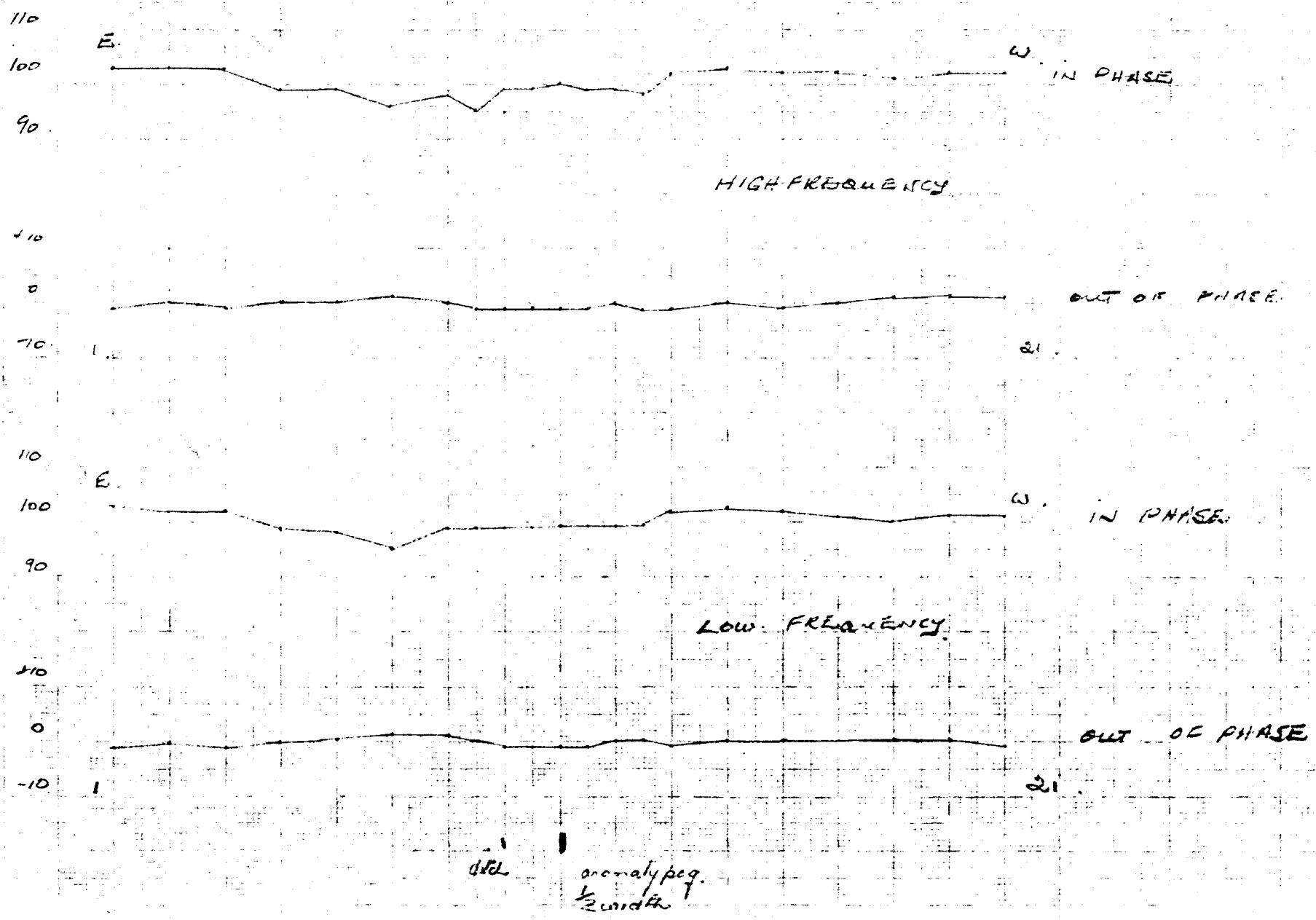
G_M
R.M.



Anomaly 420A PRIMARY TRAVERSE E.I.M. GUN. Roof cable

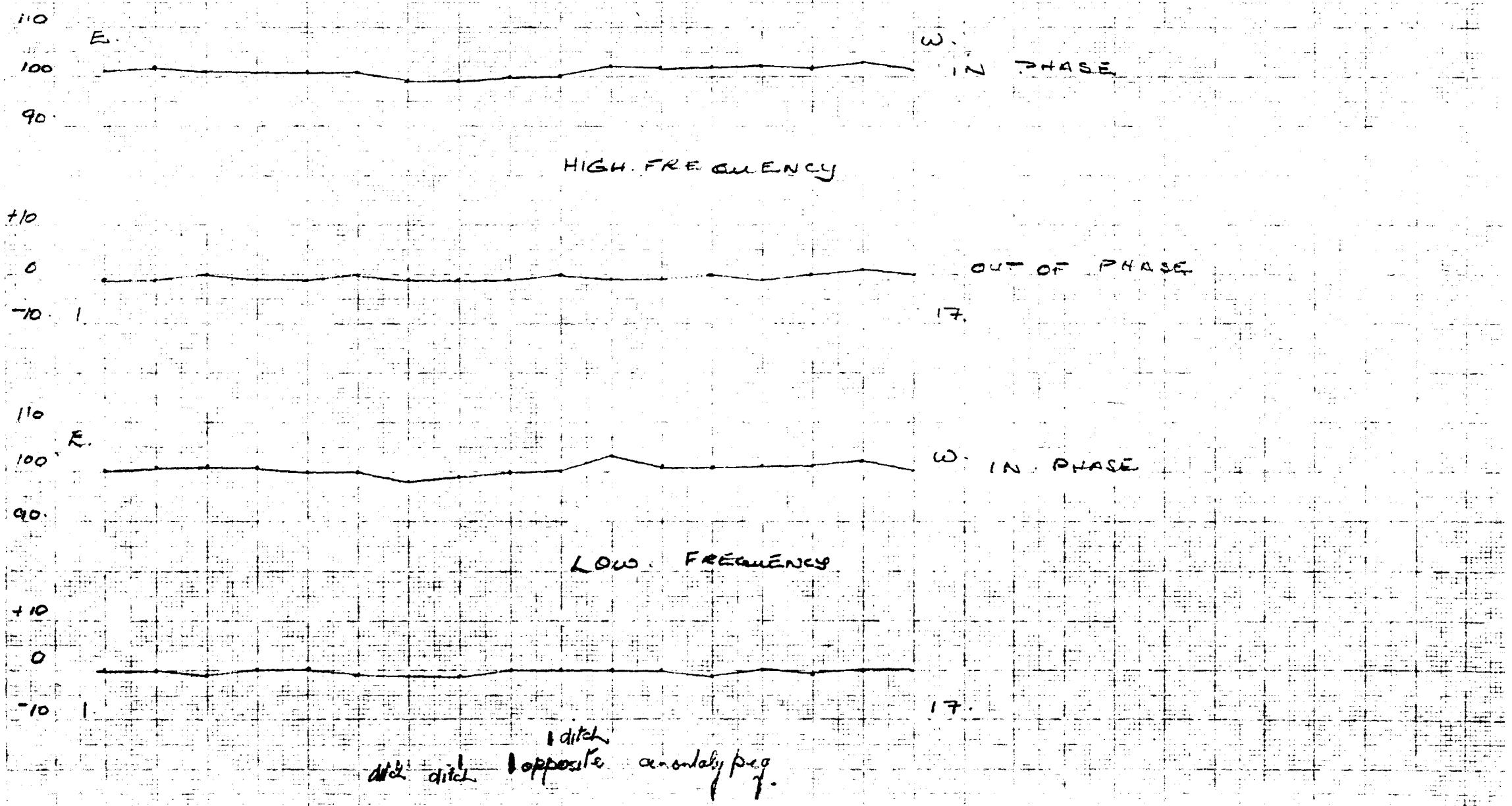
10-8-72

Fig. 5



Anomaly 428A TRAVERSE 2.

10-6-72



Anomaly 428A. TRAVERSE 3

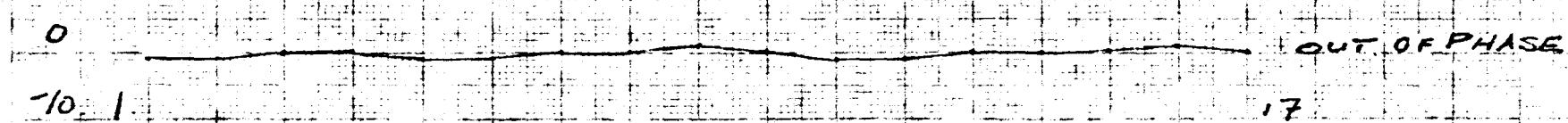
10.6.92.



HIGH FREQUENCY



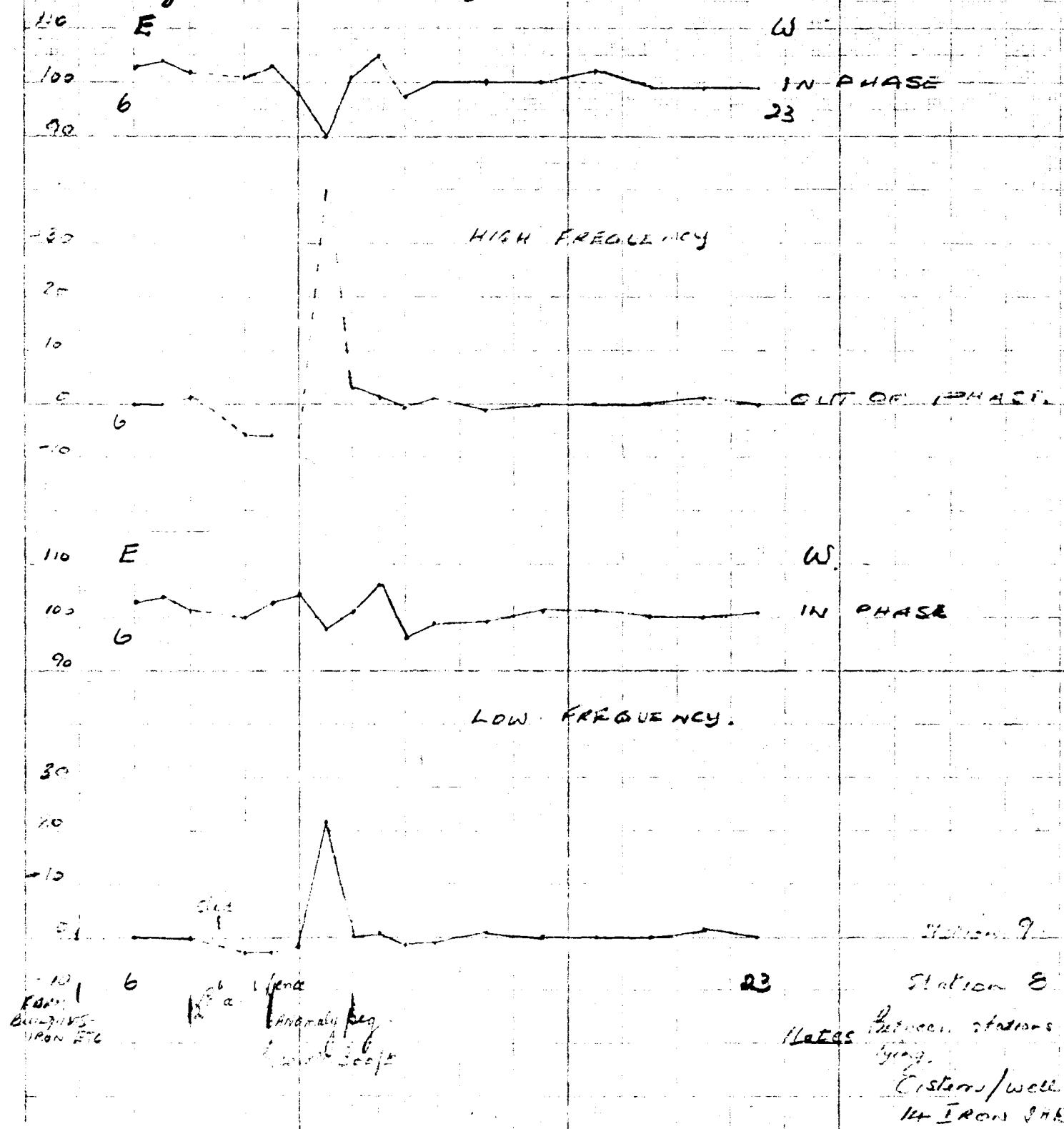
LOW FREQUENCY



1 opposite anomaly freq.

Anomaly 427A Primary TRAVERSE

Fig. 5



~~Section 9. Too much interdependence no flexibility.~~

Station 8 opposite large Ironized + also wet.
Water between stations 9-10. portion of fence acting as iron sheet.

1 stars/well on flight line, possible aster per ha.
14 IRons 84K 22. 0.5 flight line

Anomaly 427 B FC PRIMARY TRAVERSE EM Gun.

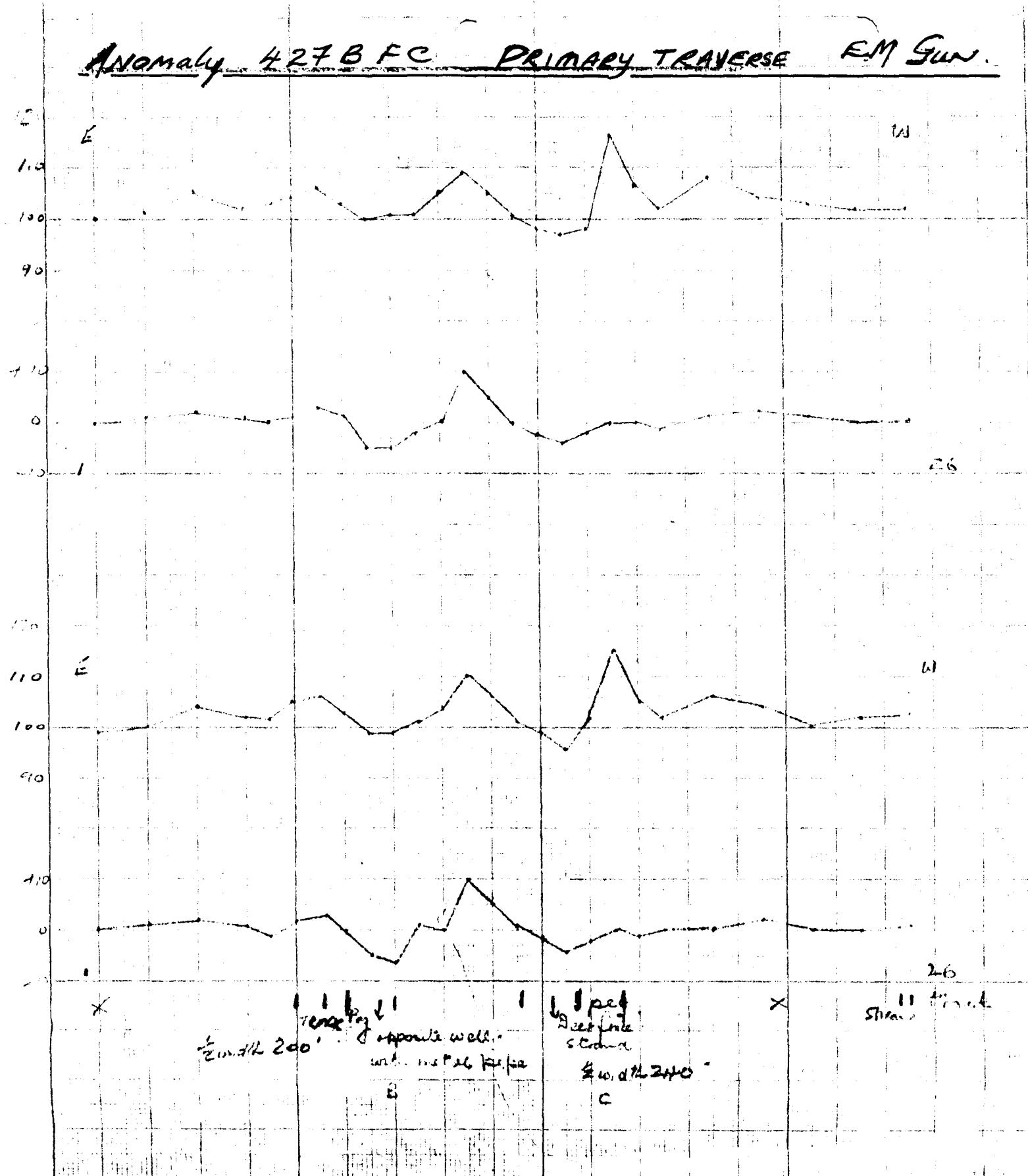
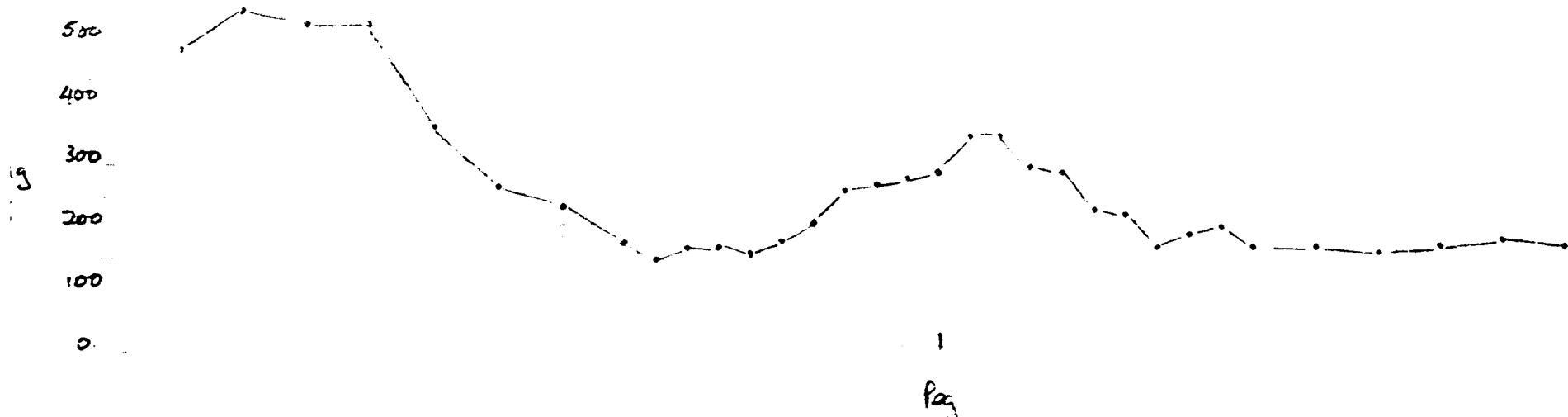
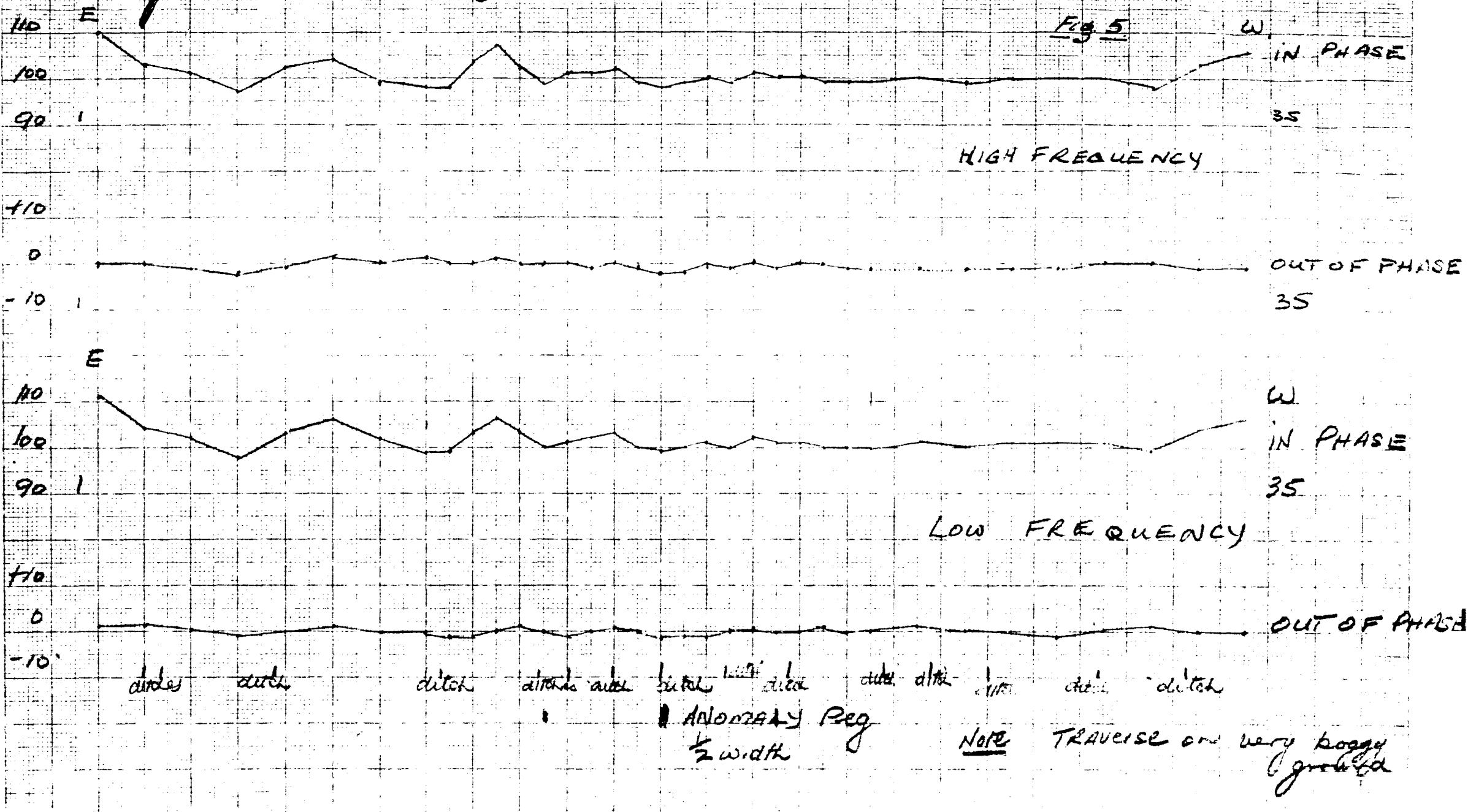


Fig. 5

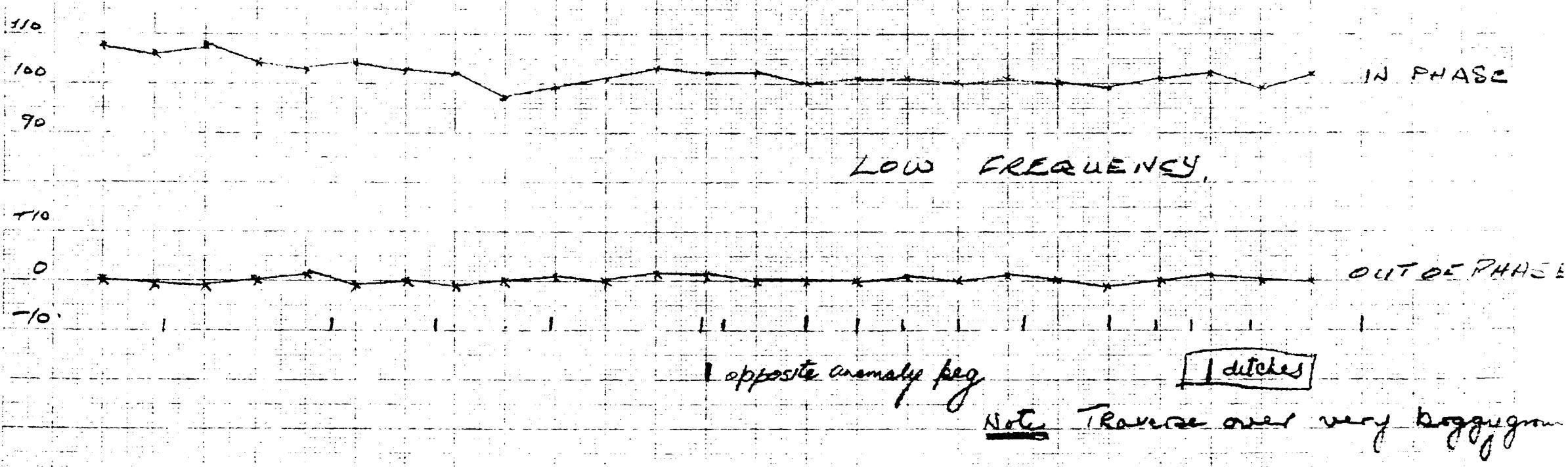
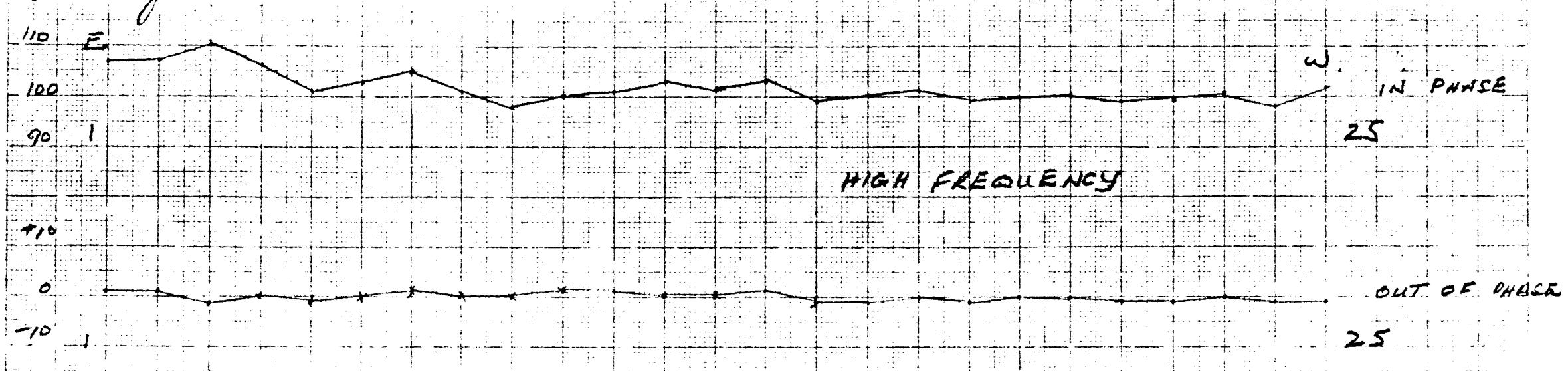
Anomaly 425A Primary Traverse ERT Gain Loop cable 20/4/72



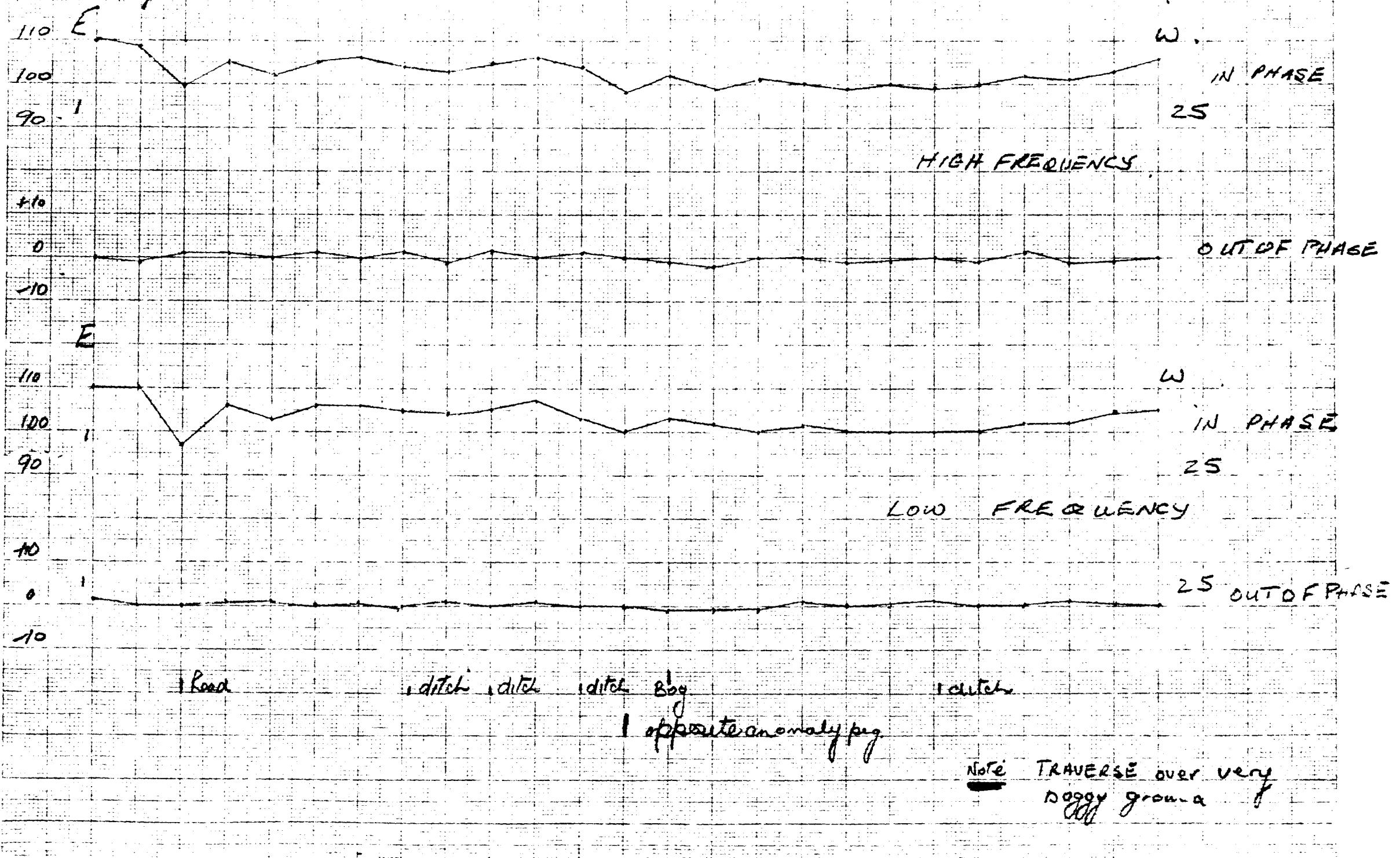
Anomaly 425A TRAVERSE 2 EM GUN

Zooft cable.

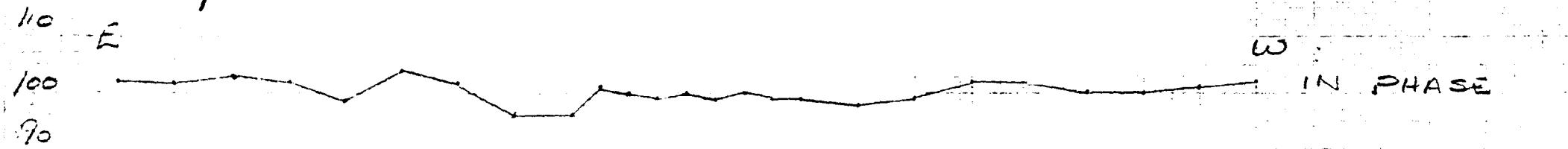
20-4-72.



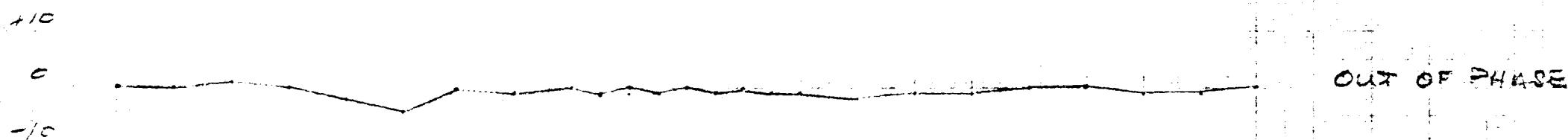
Anomaly 4259 TRAVERSE 3 EM Gun 20-4-72



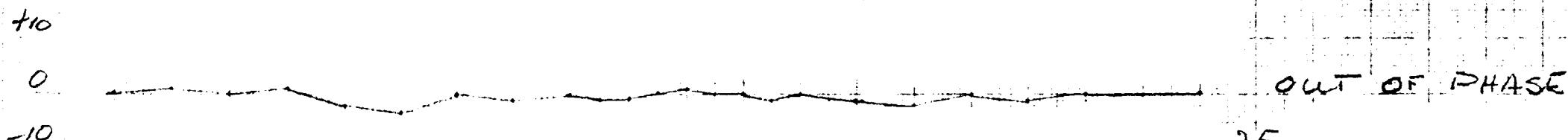
Anomaly 426A PRIMARY TRAVERSE E.M. Sur. 200ft cable 10.6.72 Fig 5.



HIGH FREQUENCY



LOW FREQUENCY.



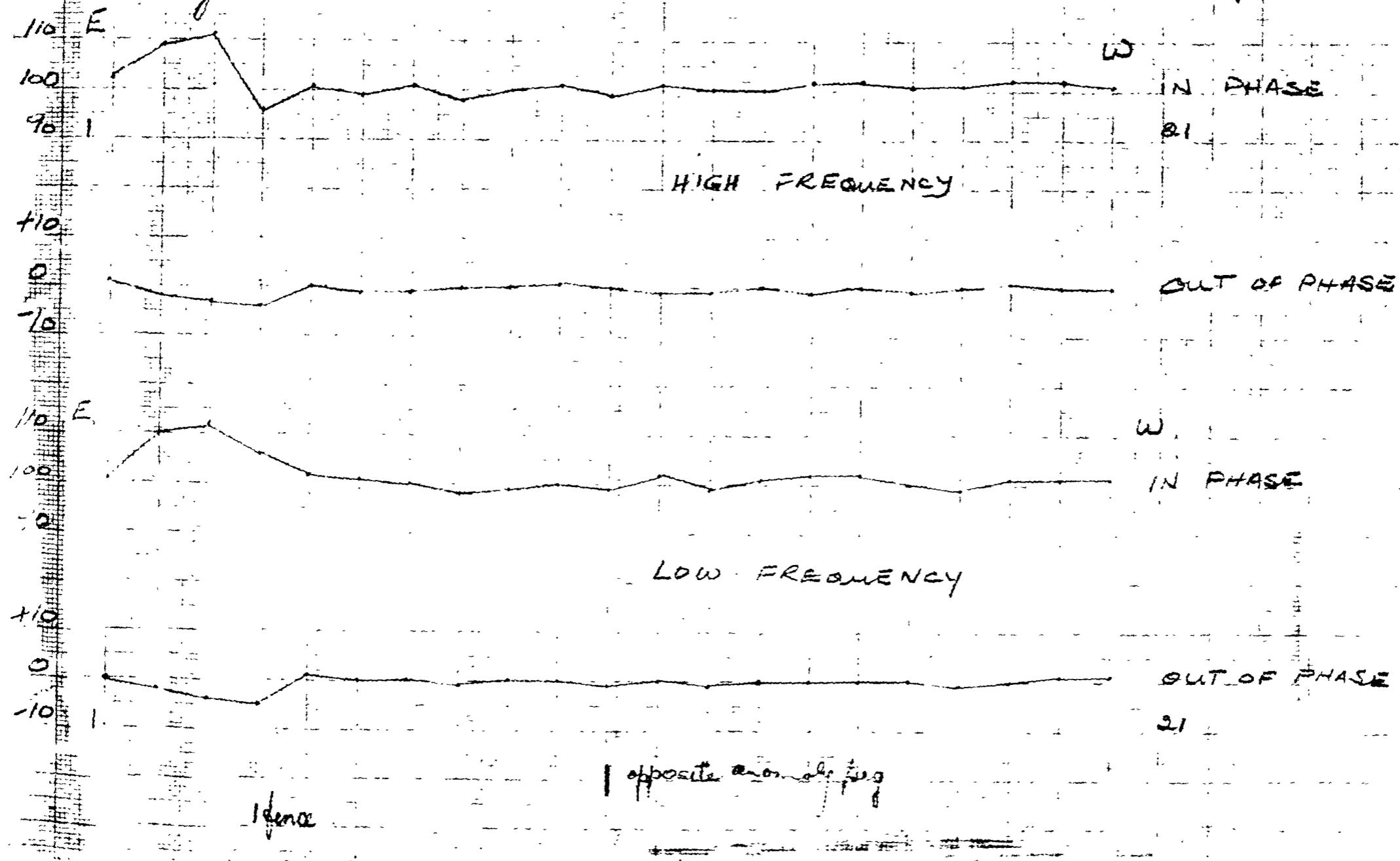
25

ayke fence

Anomaly peg
ditch
in water

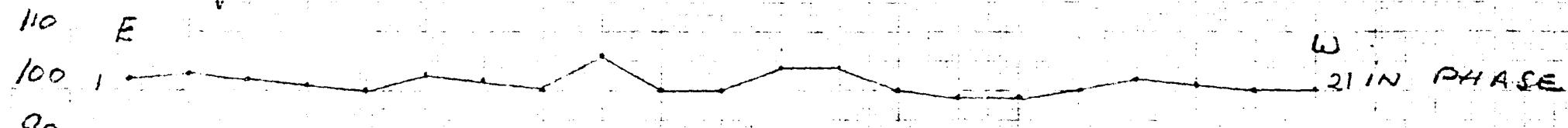
Anomaly 426 A. TRAVERSE 2

10.6.72

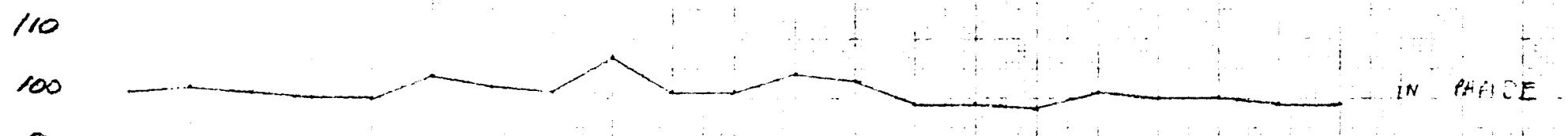
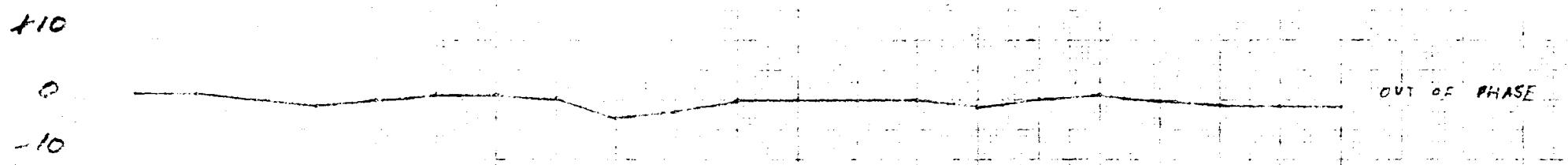


Anomaly 426 A TRAVERSE 3

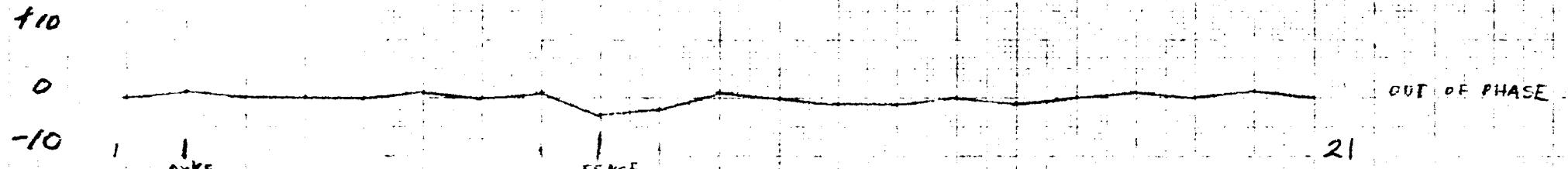
10.6.72.



HIGH FREQUENCY



LOW FREQUENCY



DYKE

FENCE

21

opposite anomaly peg

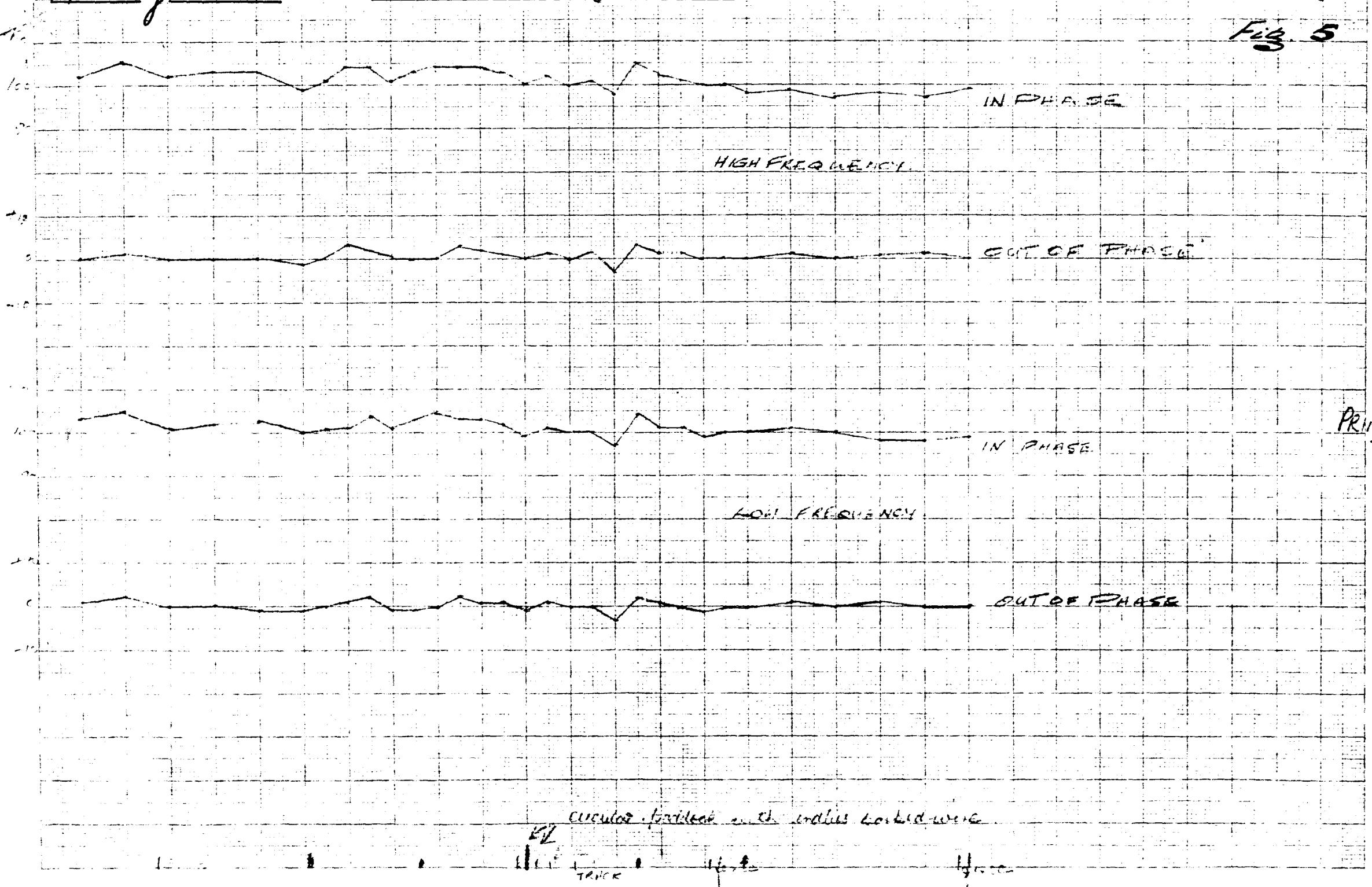
Anomaly 426 C.

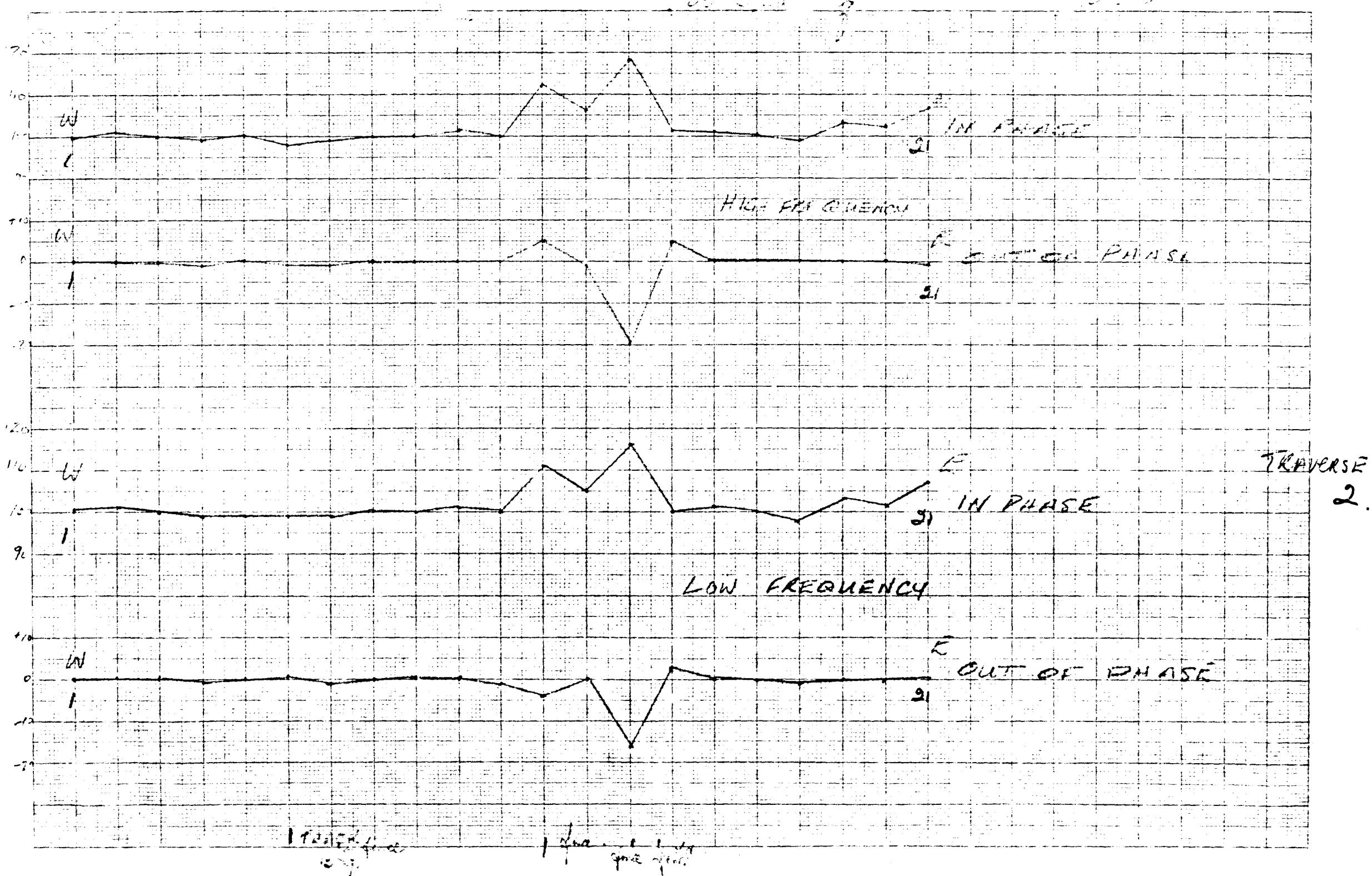
Em. Gun 200ft cable

2342

S. A. Mitchell
F. H. Laddie

Fig. 5





SHH anomaly 1126 C Traverse 3

15-3-40.

110 E

W

100

IN PHASE

90

17

80

HIGH FREQUENCY

70

OUT OF PHASE

60

18

50

IN PHASE

40

19

LOW FREQUENCY

30

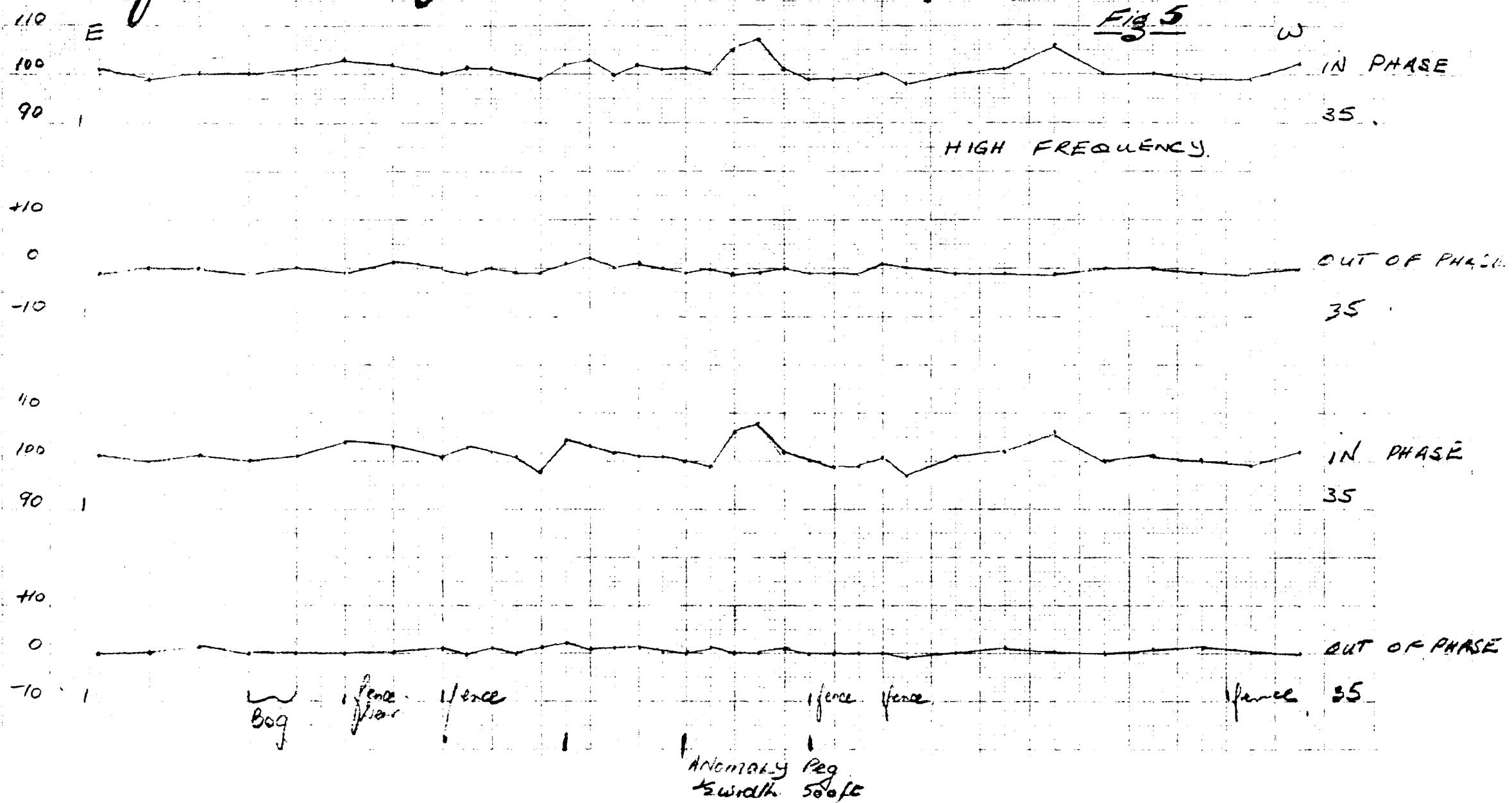
OUT OF PHASE

20

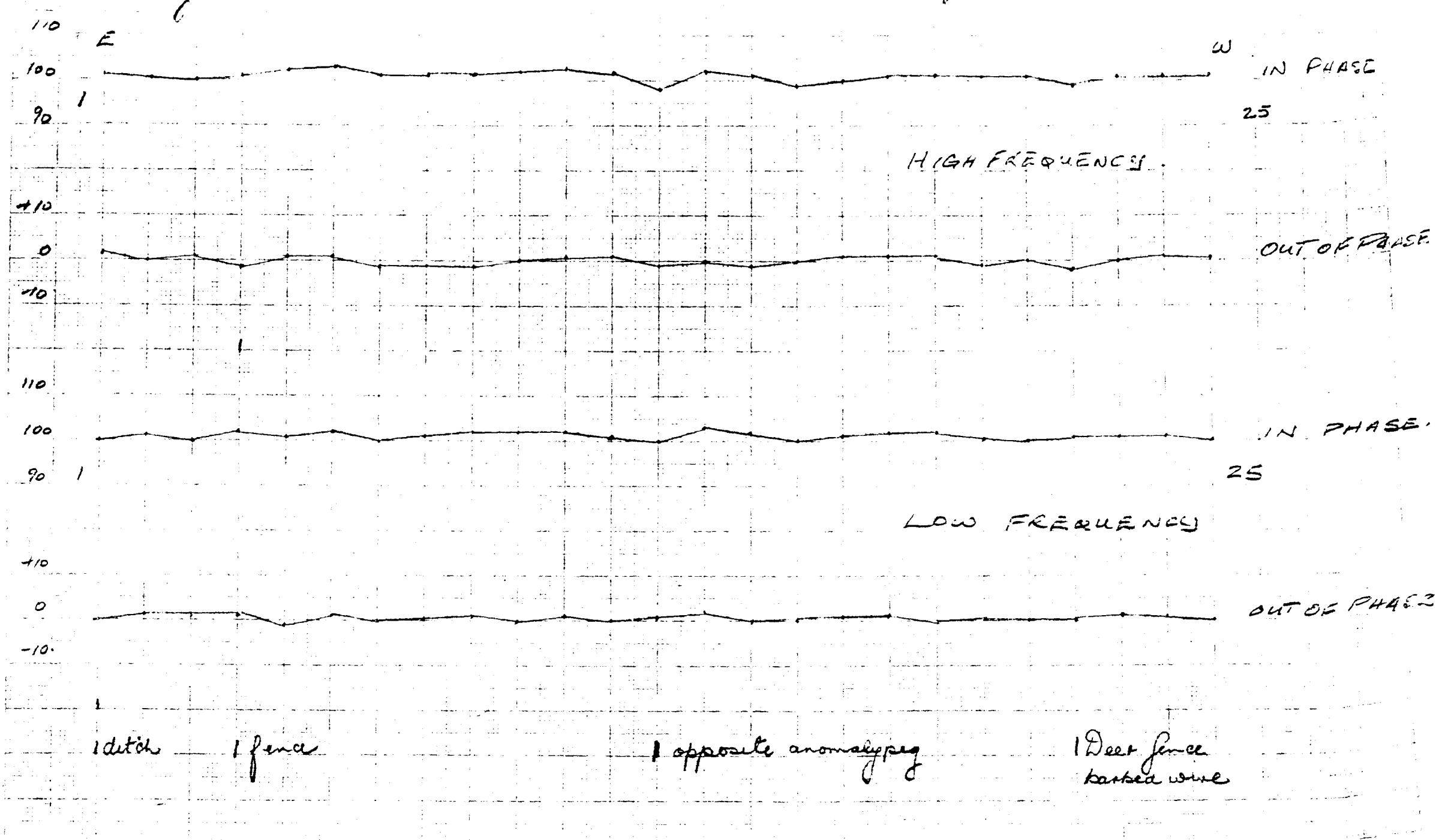
20

10

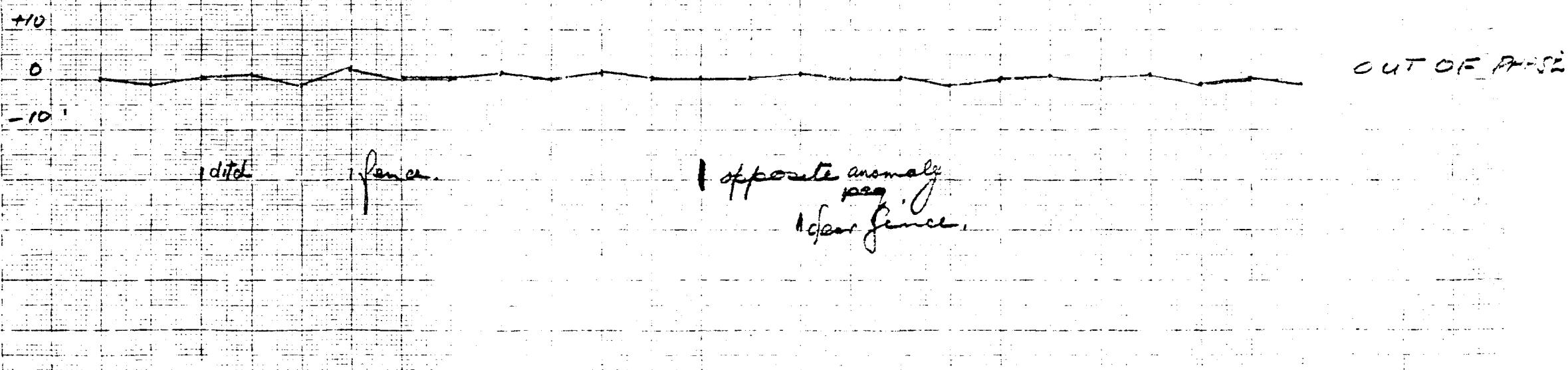
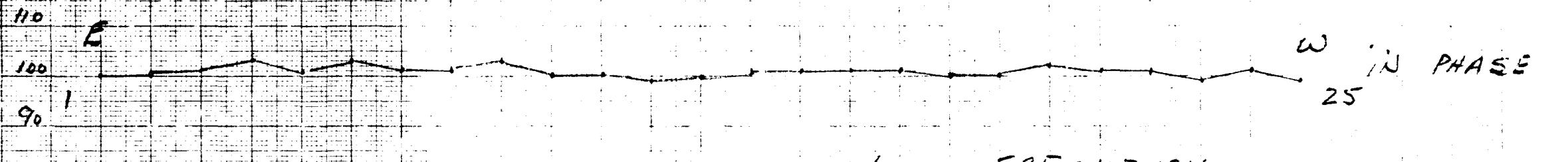
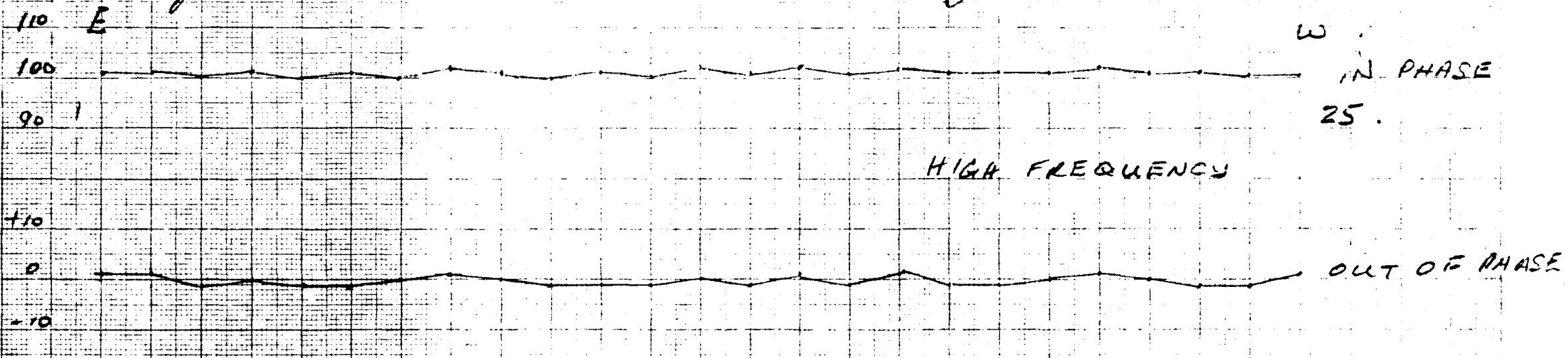
Anomaly 4248 Primary Traverse EM Gun Zoft cable 20/4/72



Normal 424B TRAVERSE 2. E/M Gun 20' off cable 20/4/72



Anomaly 424B TRAVERSE 3 End Gun - Zee/cable 20/4/72.

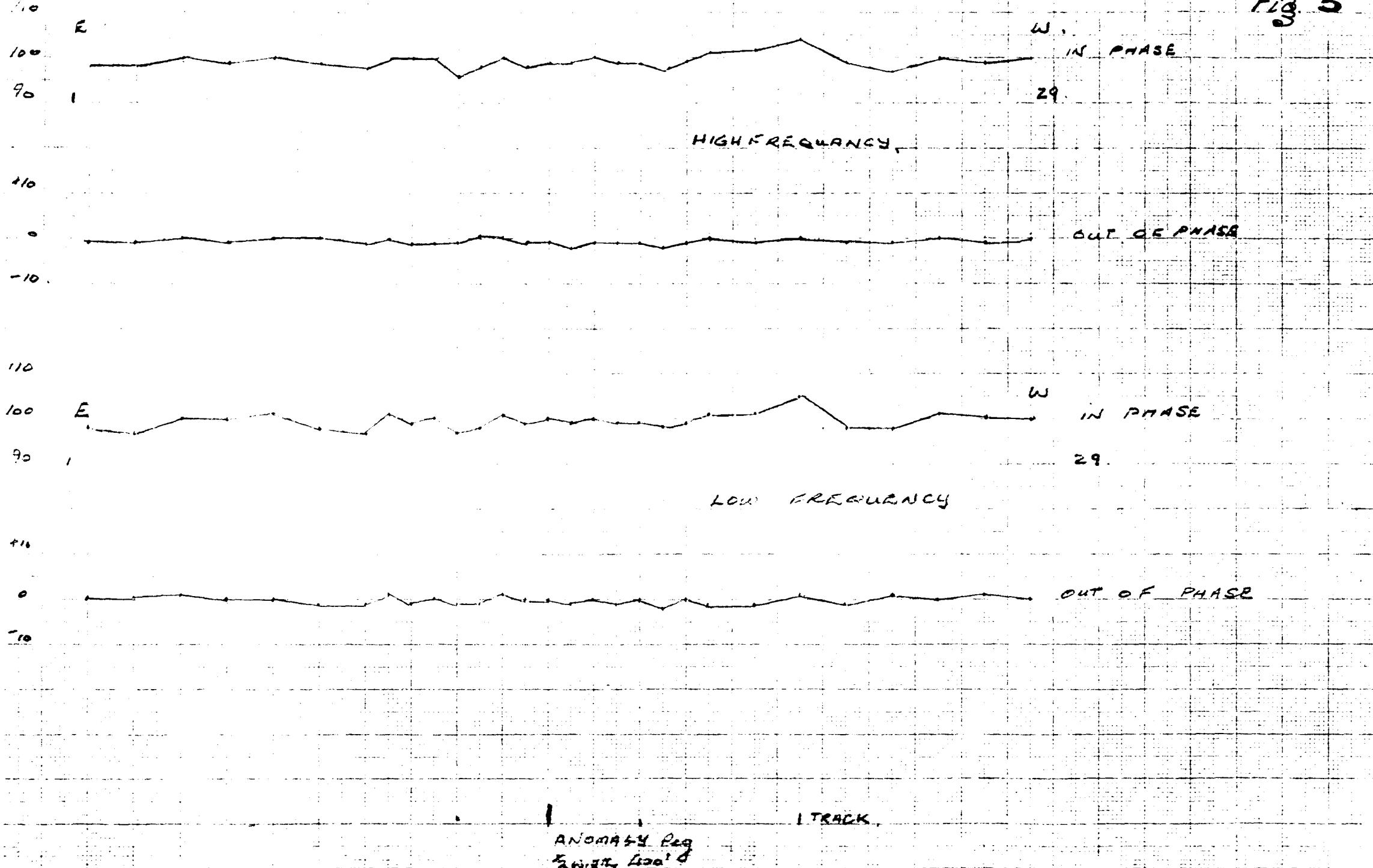


Anomaly 421A PRIMARY TRAVERSE

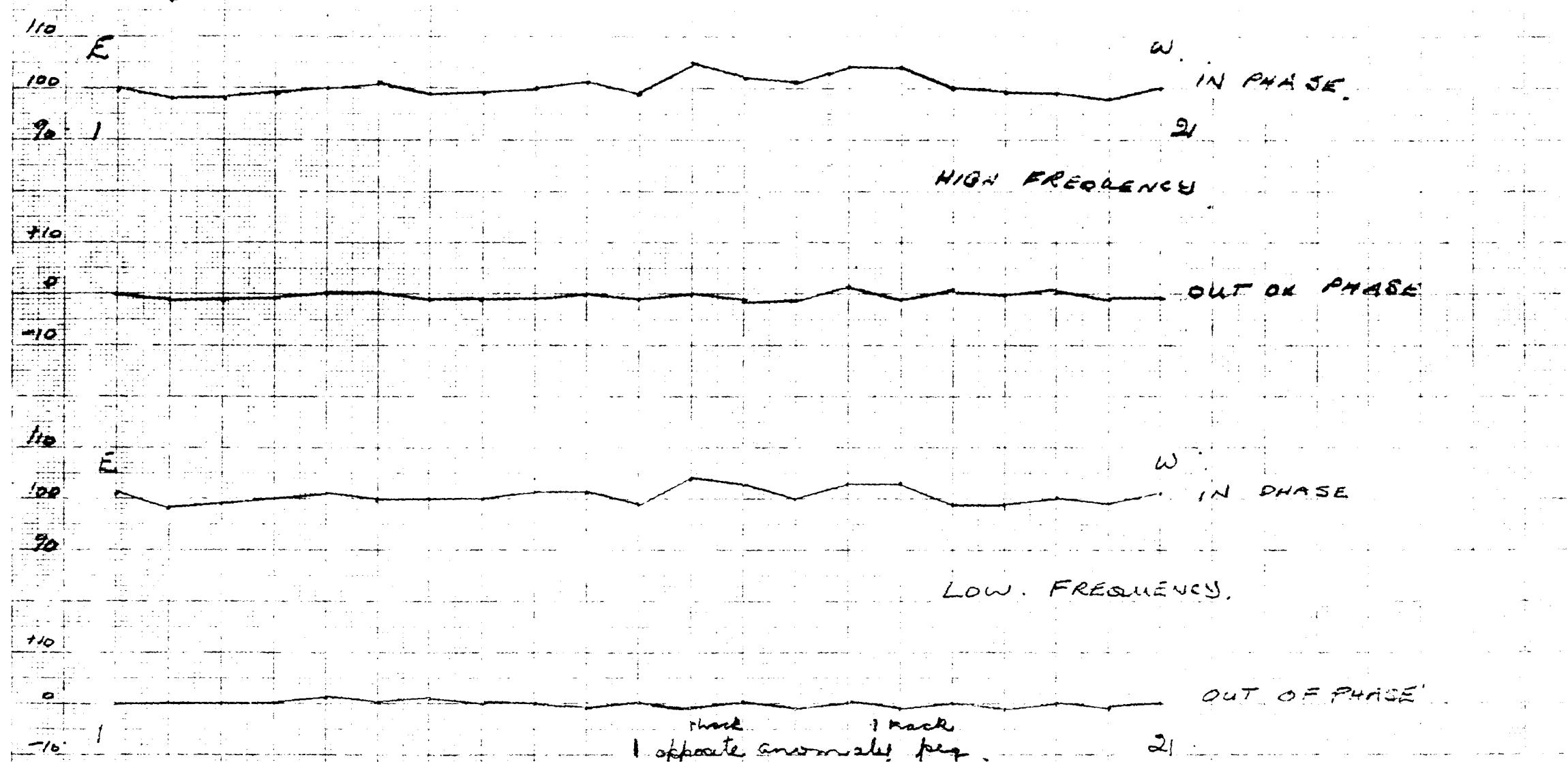
E M Gau.

Plotted 20/4/72

Fig. 5

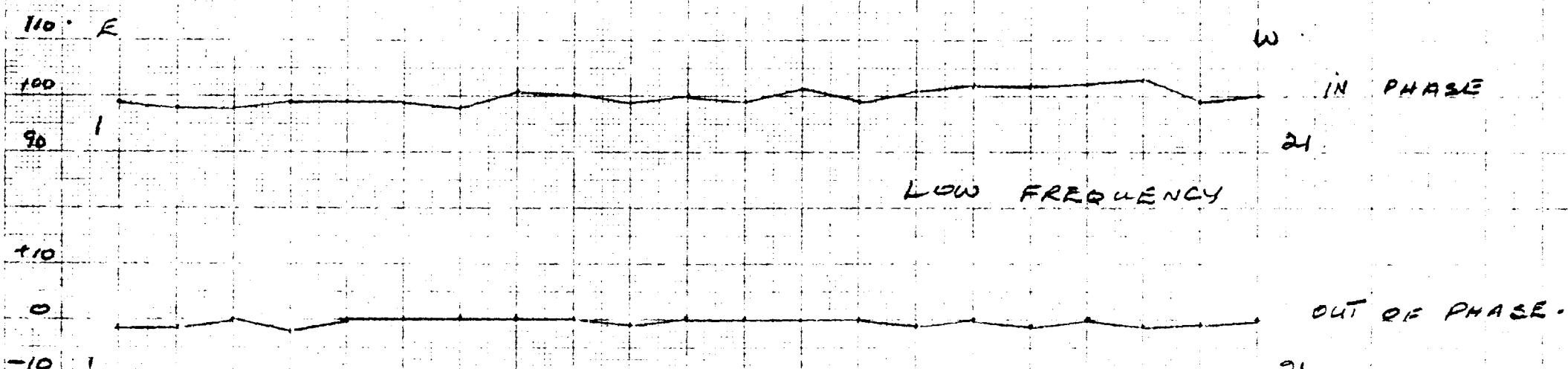
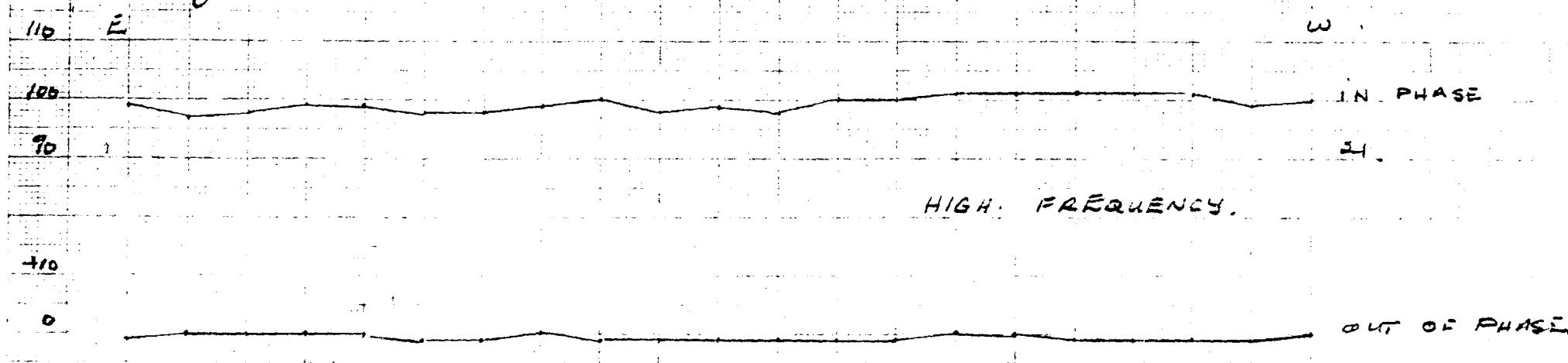


Anomaly 421A TRAVERSE 2. Em Sen Bottor 15-4-72 G. Mitchell



Anomaly 421A TRAVERSE 3 EM Gun.

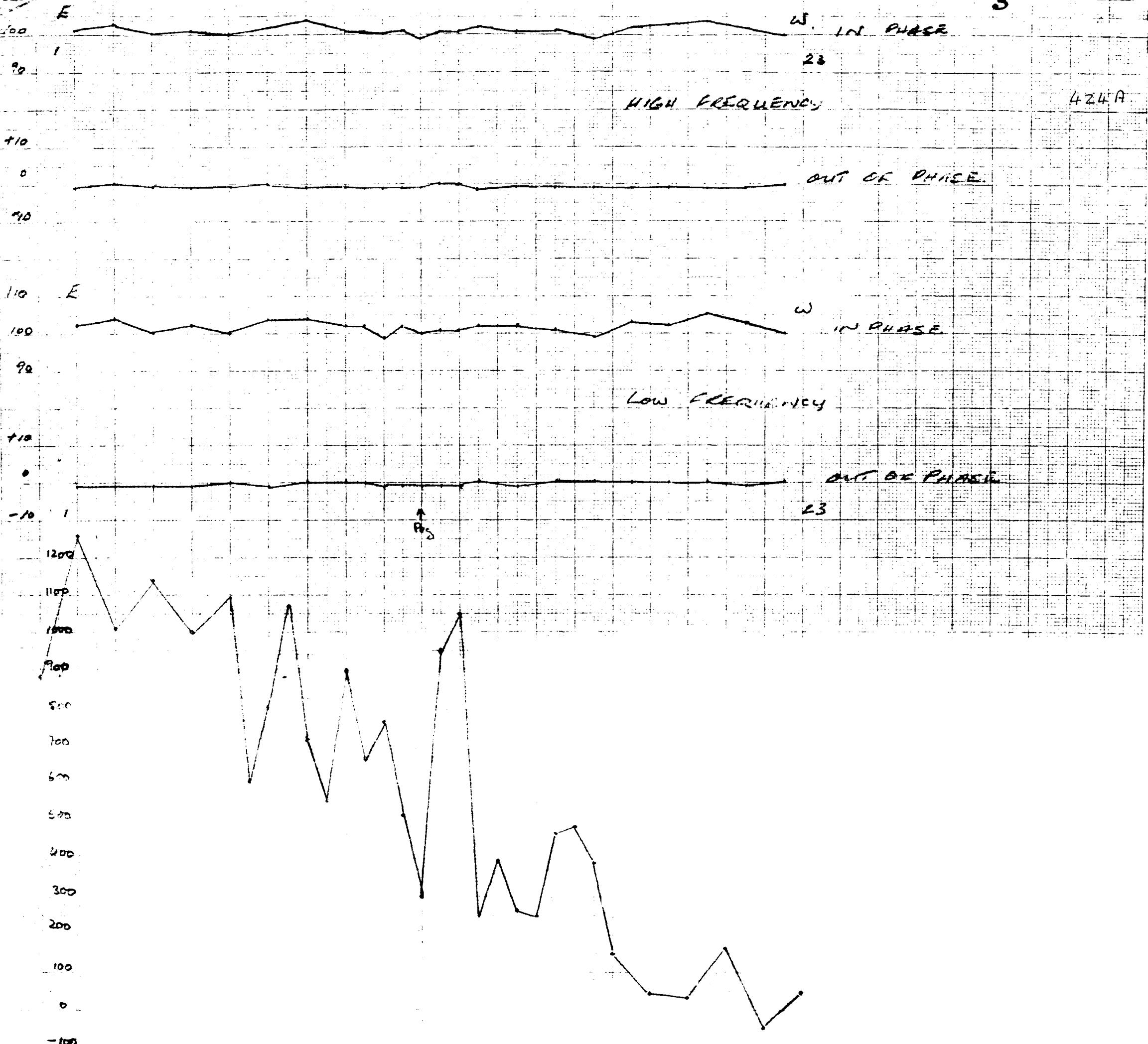
Plotted 20/4/72 GM RM



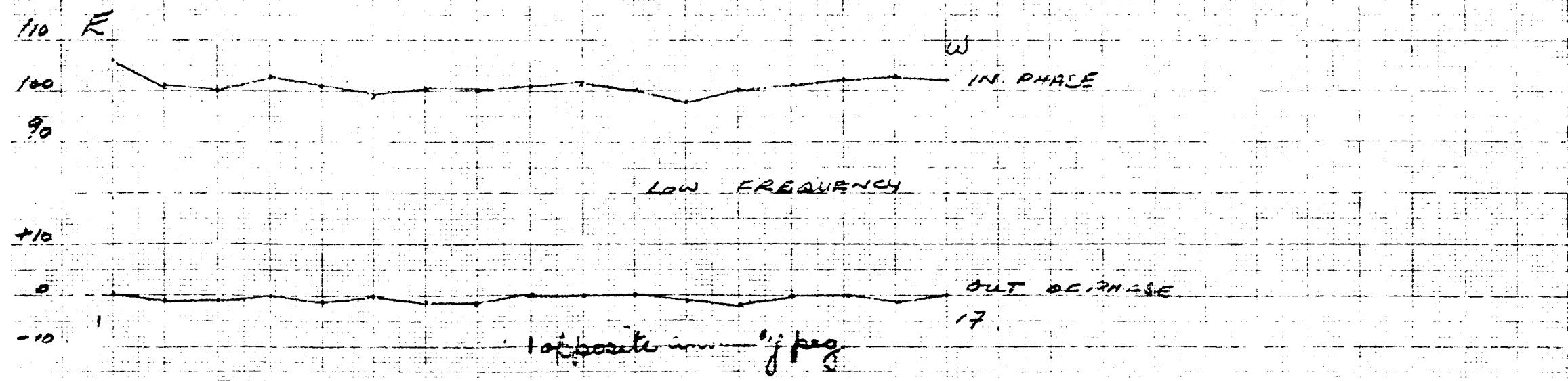
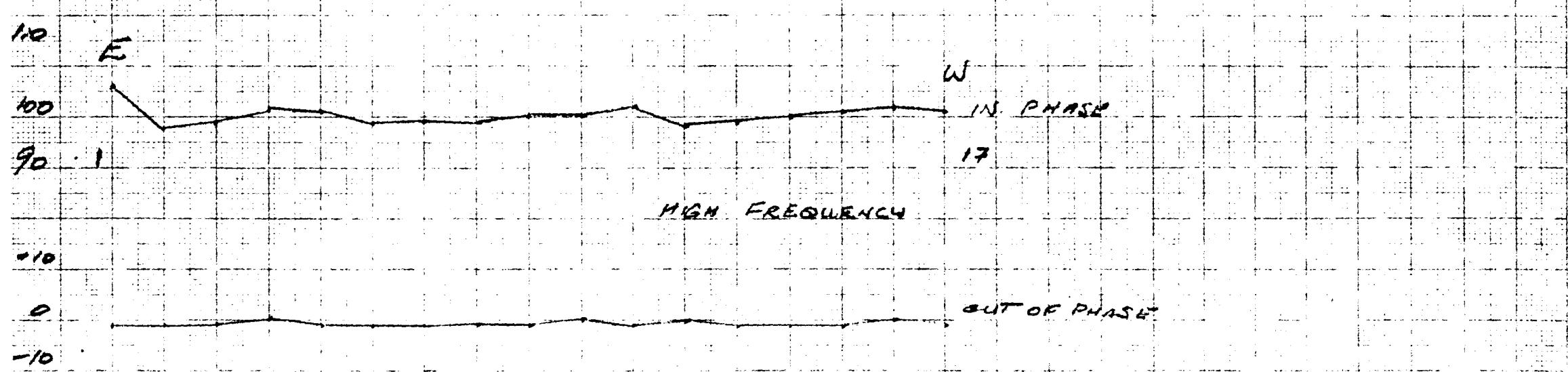
opposite anomaly
1 track

Germany 424A : PRIMARY TRANSFORMER 111 GUN June 13-4-72 5-11-72

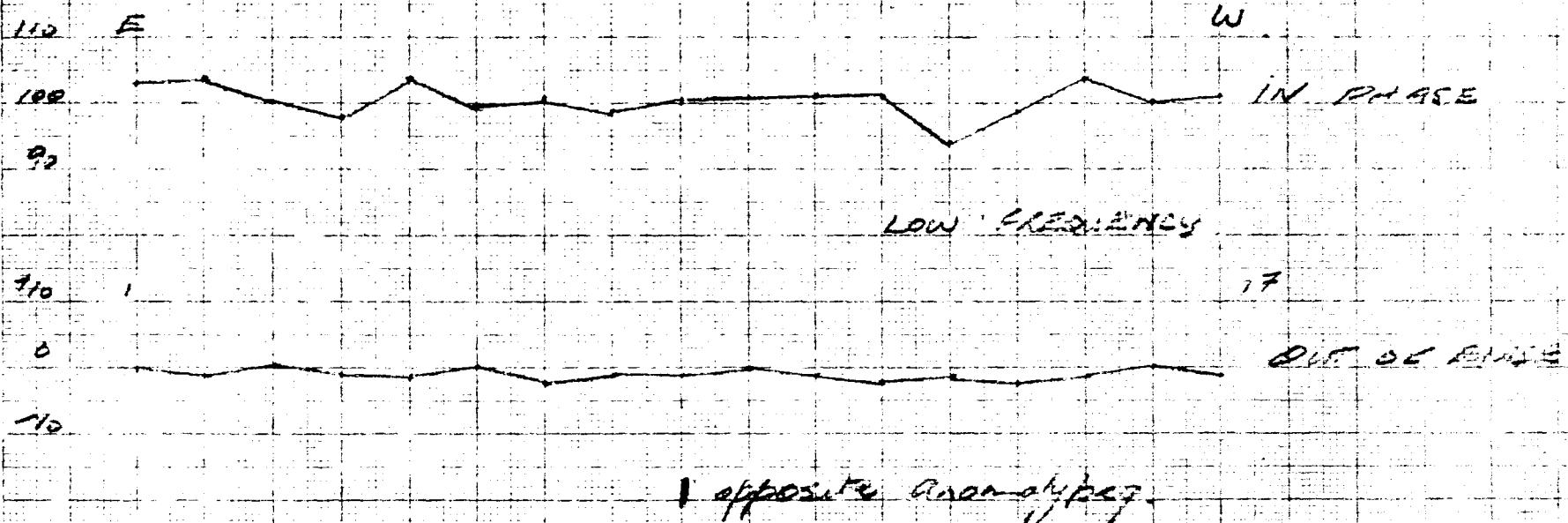
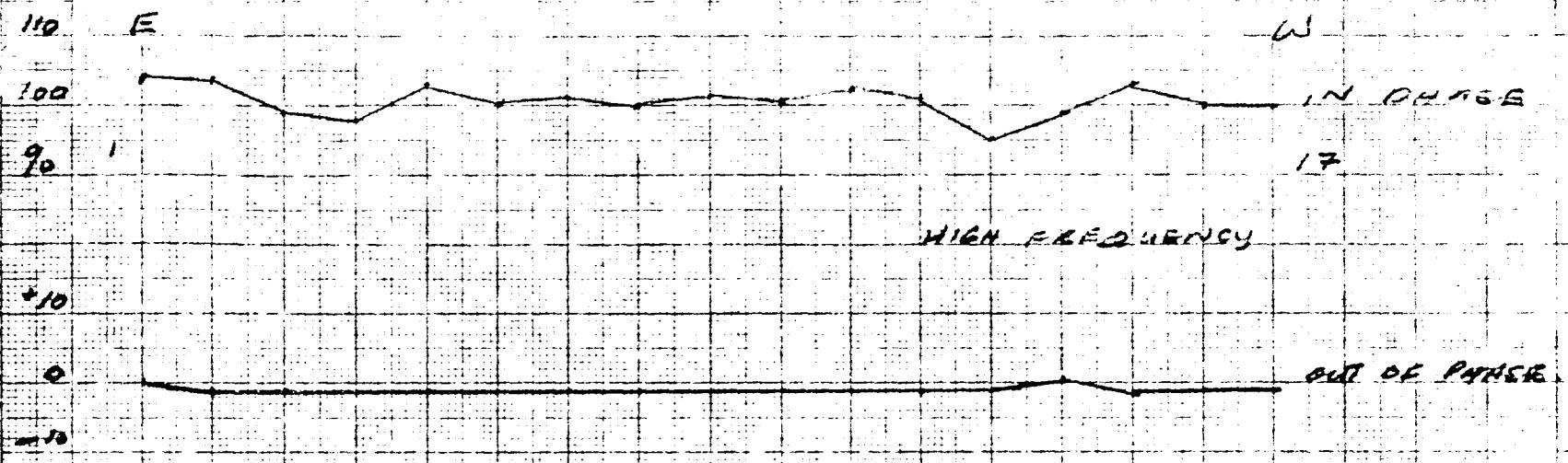
Fig. 5



Anomaly 424A. TRAVERSE 2 E.M. Sun Plotted 154-72 G. Mitchell

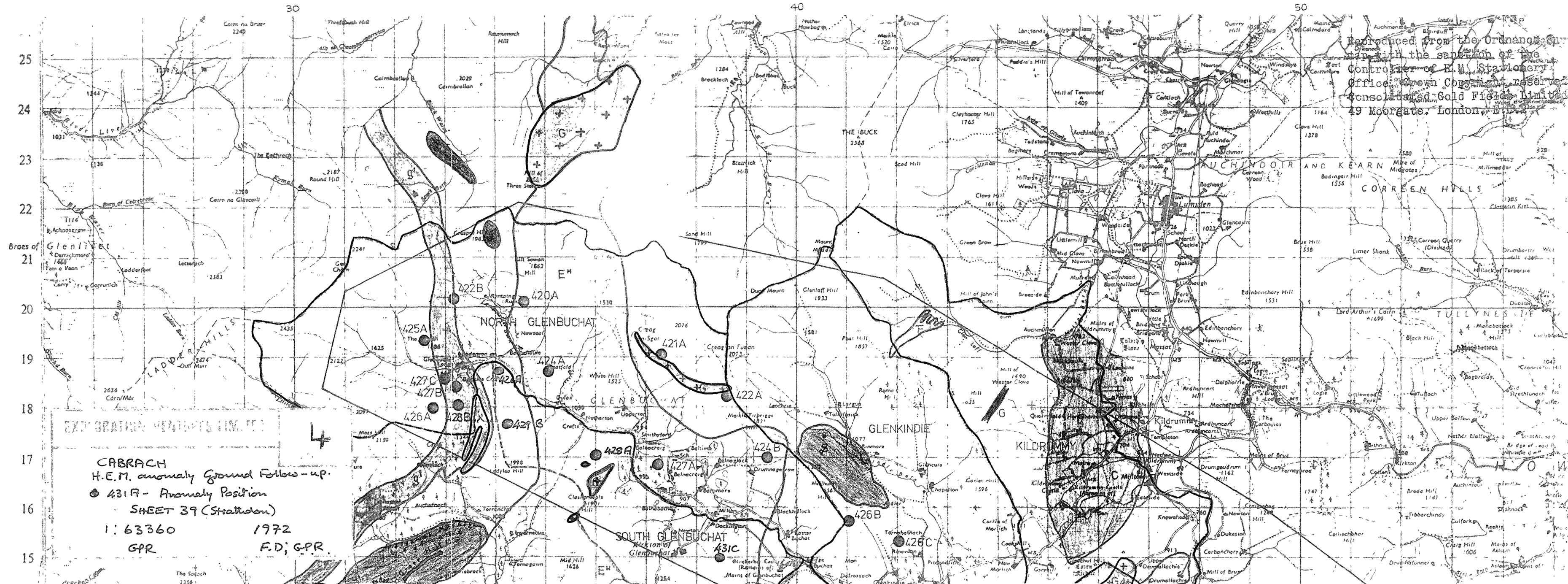


Anomaly 424A TRAVERSE 3 E.H. Goss Recd 15.4.72 G. Mitchell



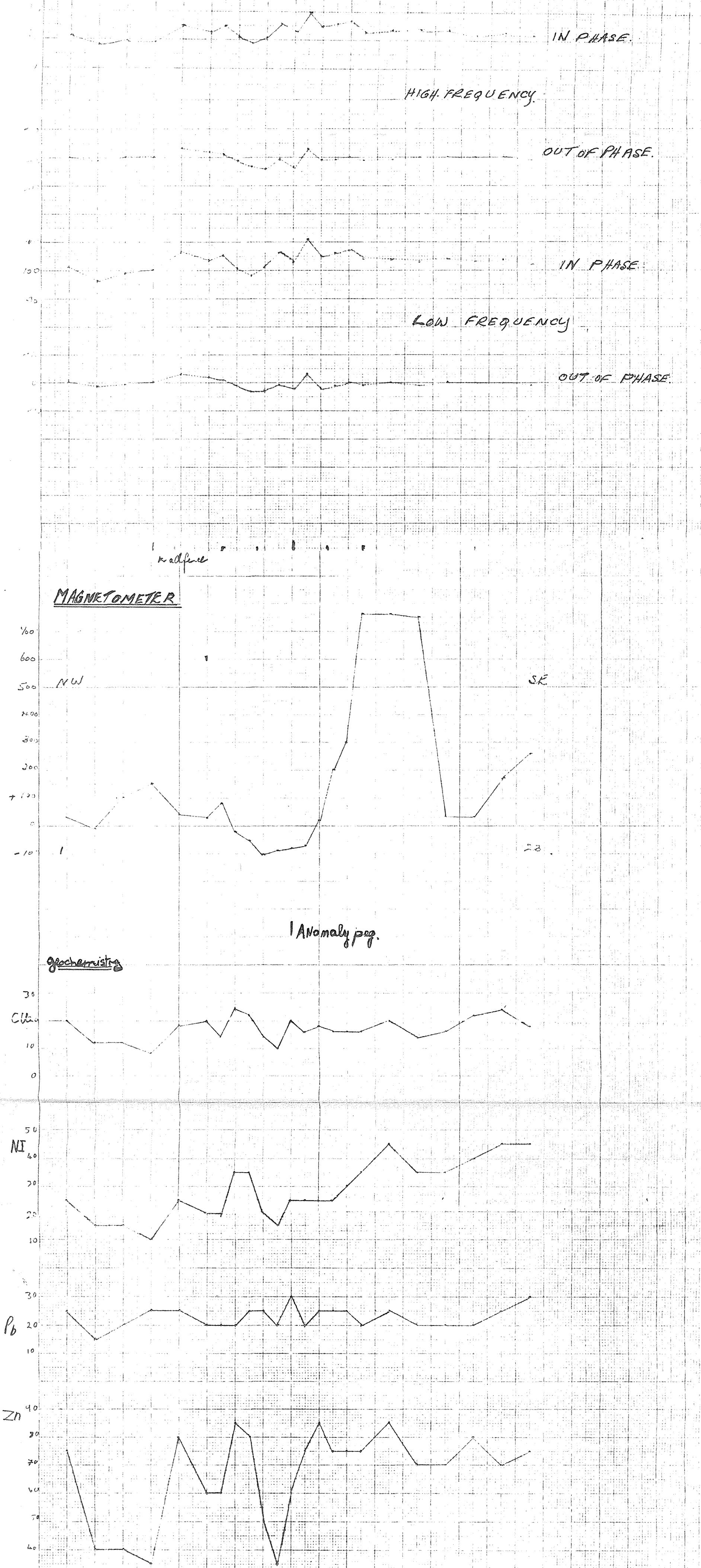


乙 二



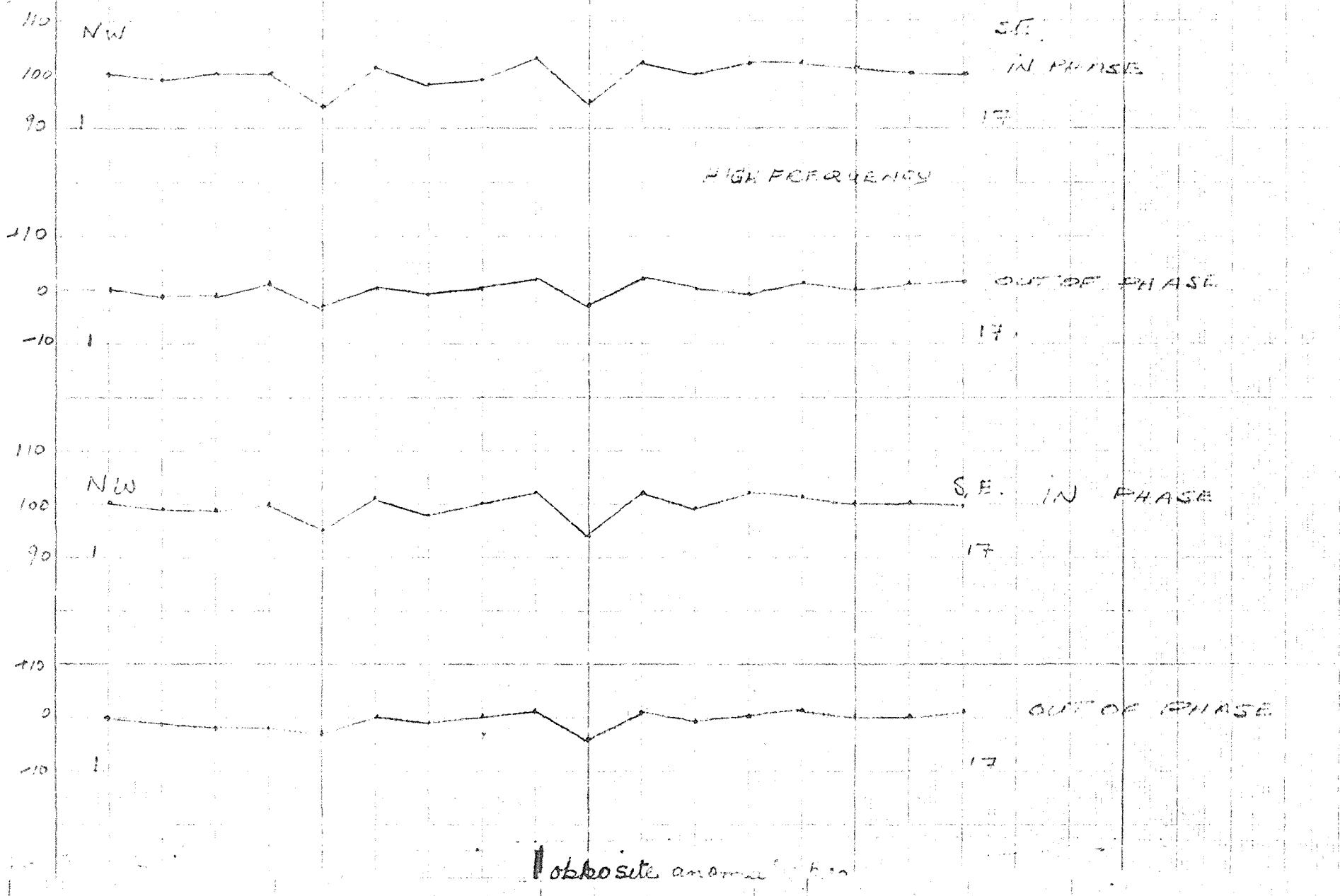
Anomaly 426B EM Gun 200 ft cable

Fig. 5

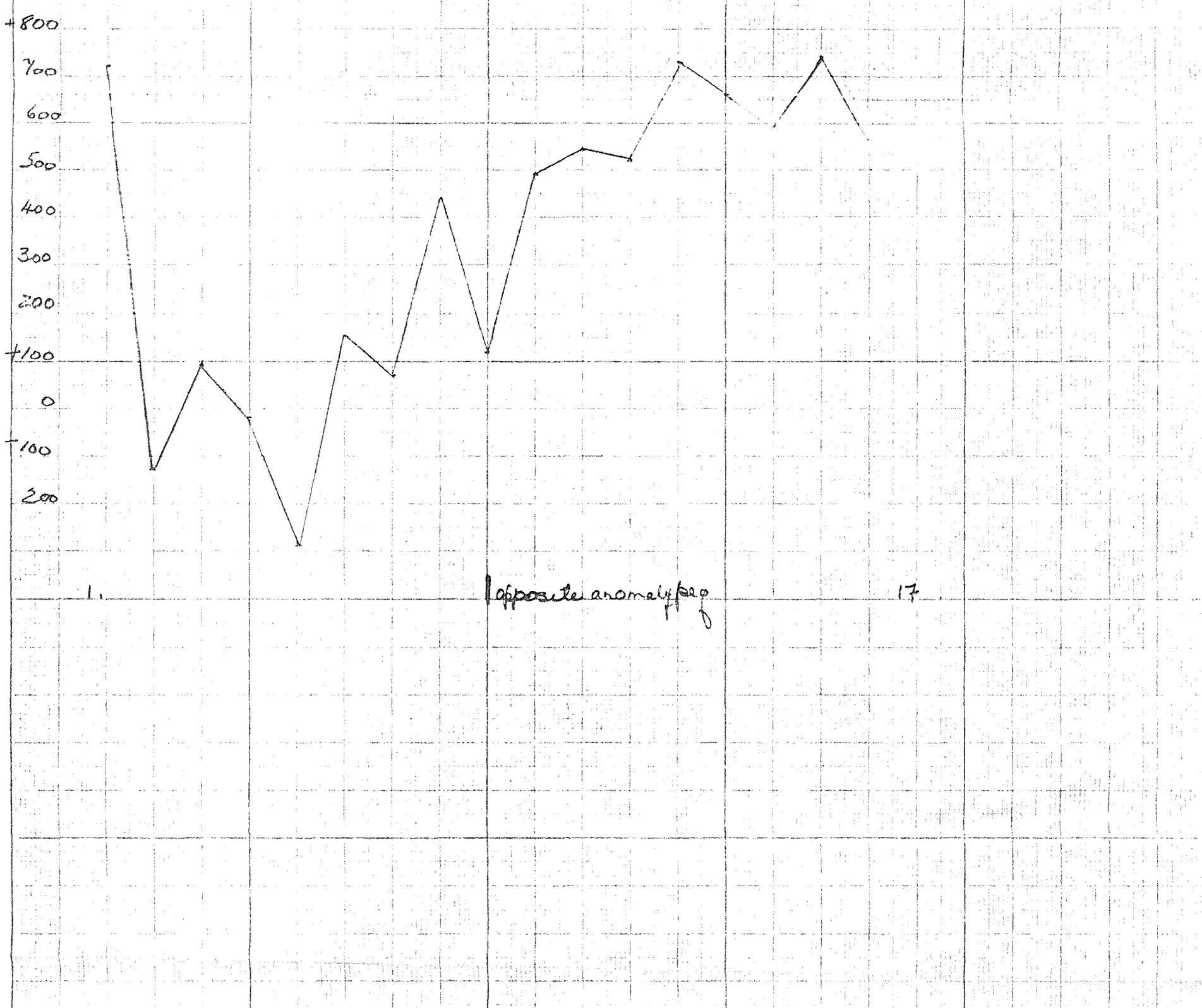


Anomaly 426B TRAVERSE 2 A.M. Game

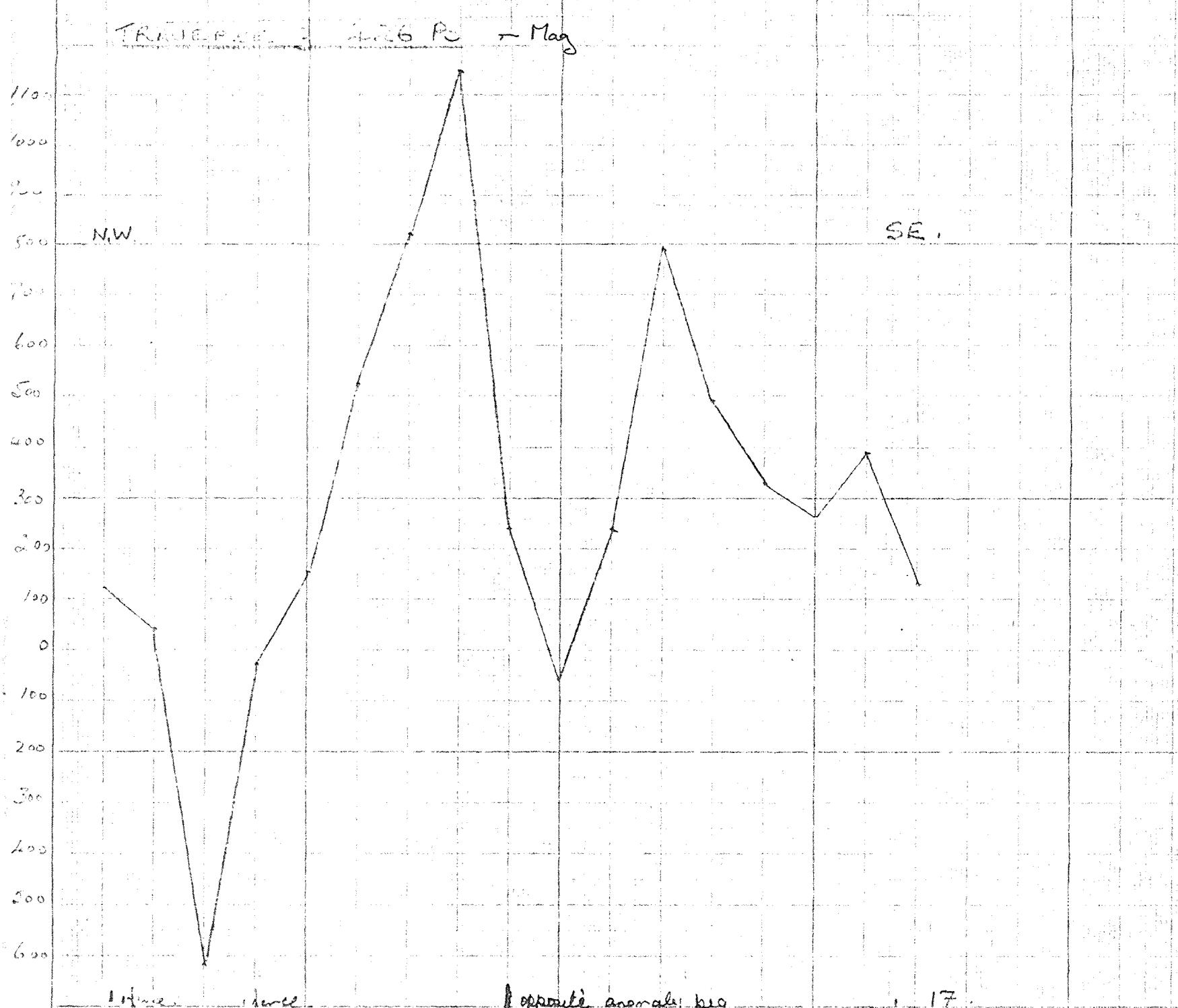
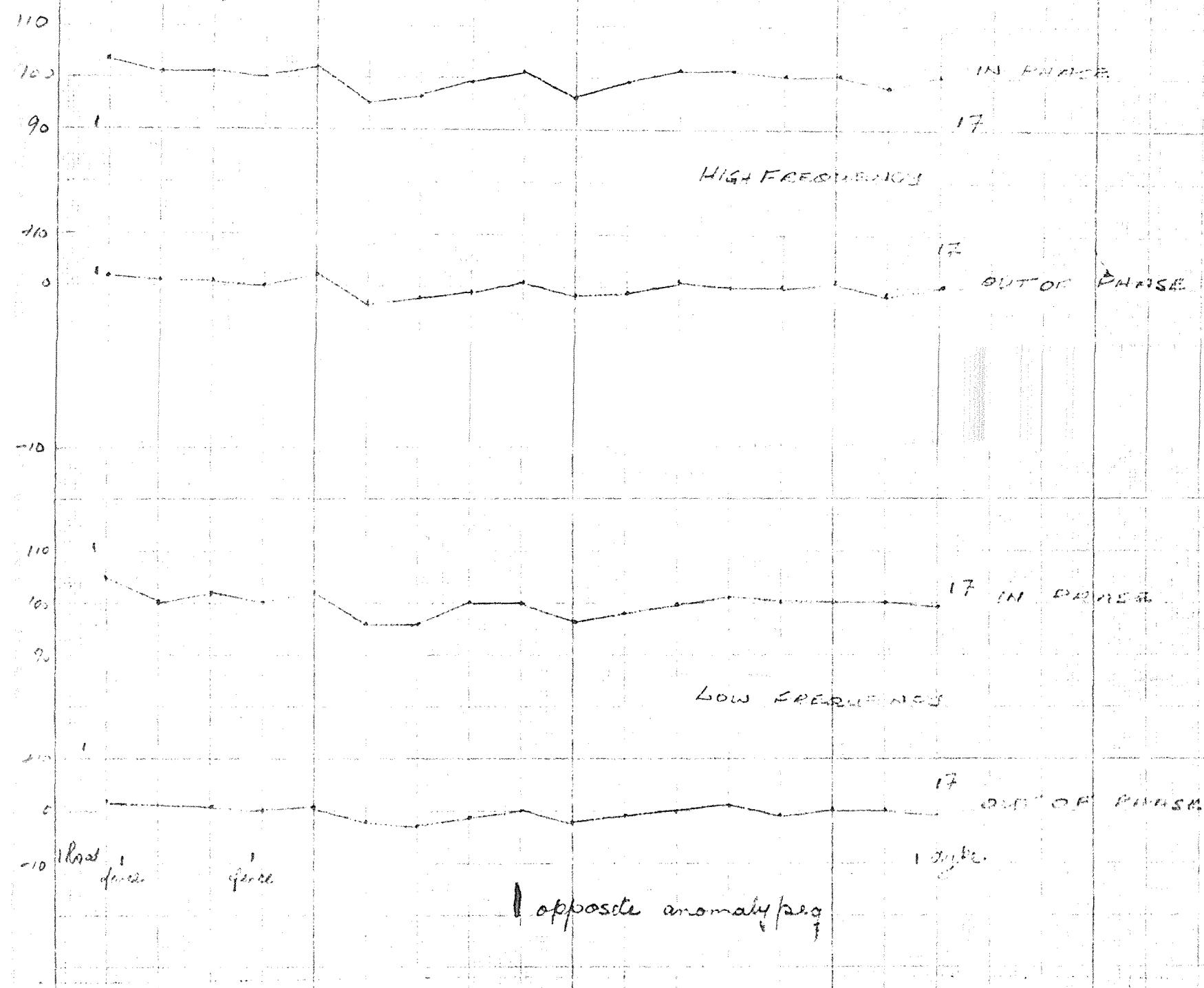
AB-3-262



TRAVERSE 2 426B - Mag.

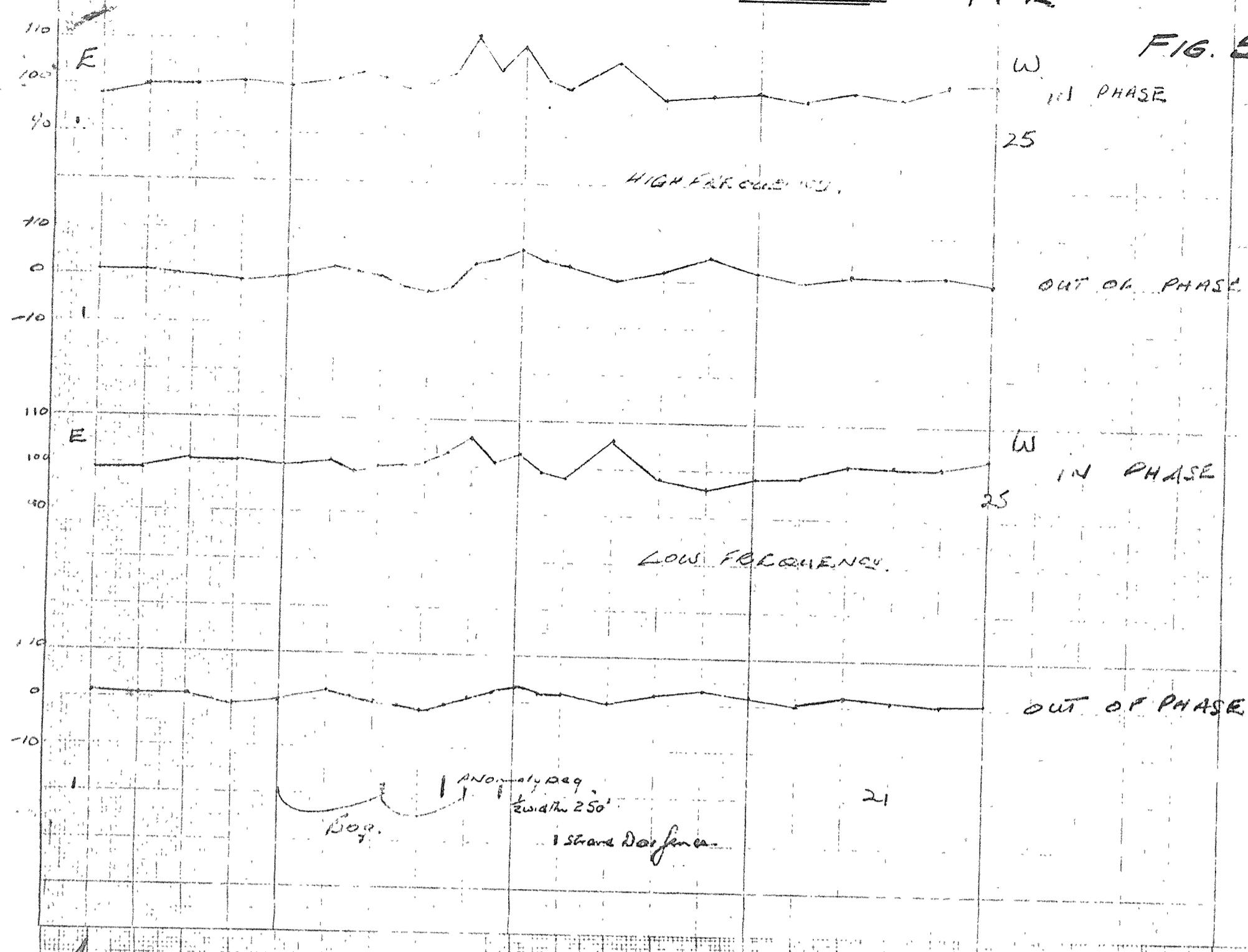


Geonics 426 P.C. TRAVERSE 3

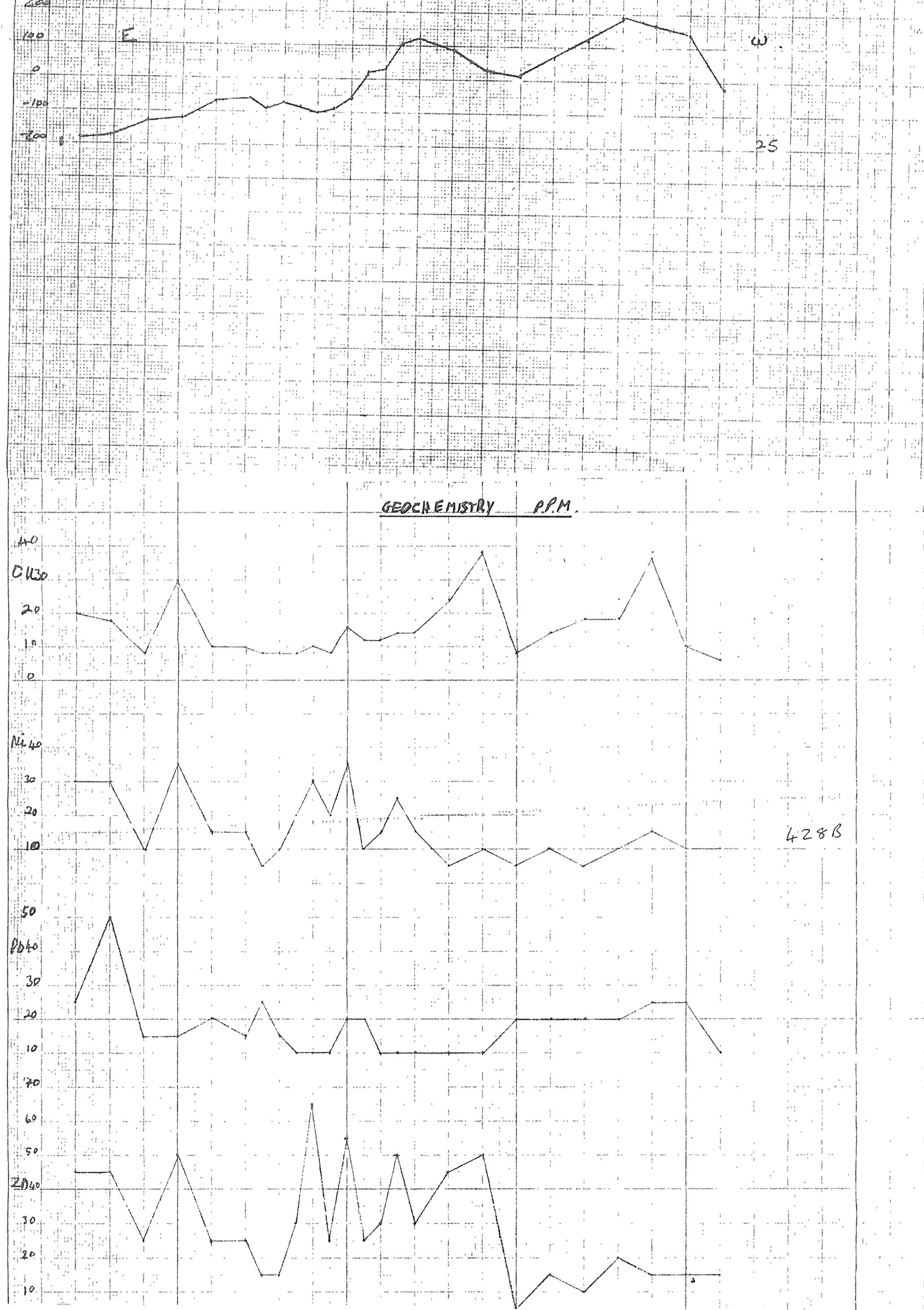


Anomaly 428B Primary TRAVERSE. E.M. Gun. 4-4-72

FIG. 5



Anomaly 428B MAG PRIMARY TRAVERSE



ANOMALY 428B MAG TRAVERSE 2

300

200

+100

0

-100

-200

E

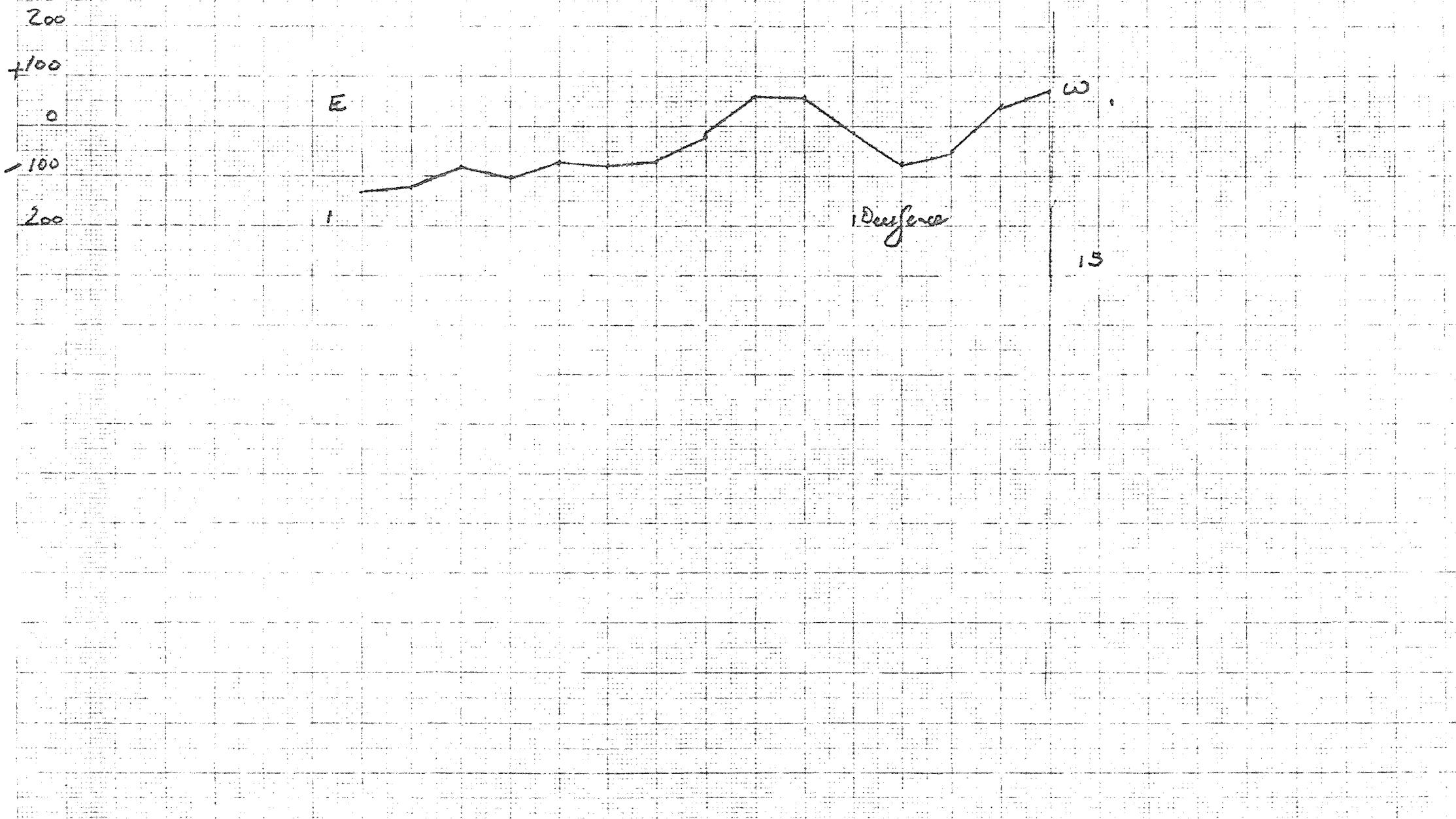
W

Defence

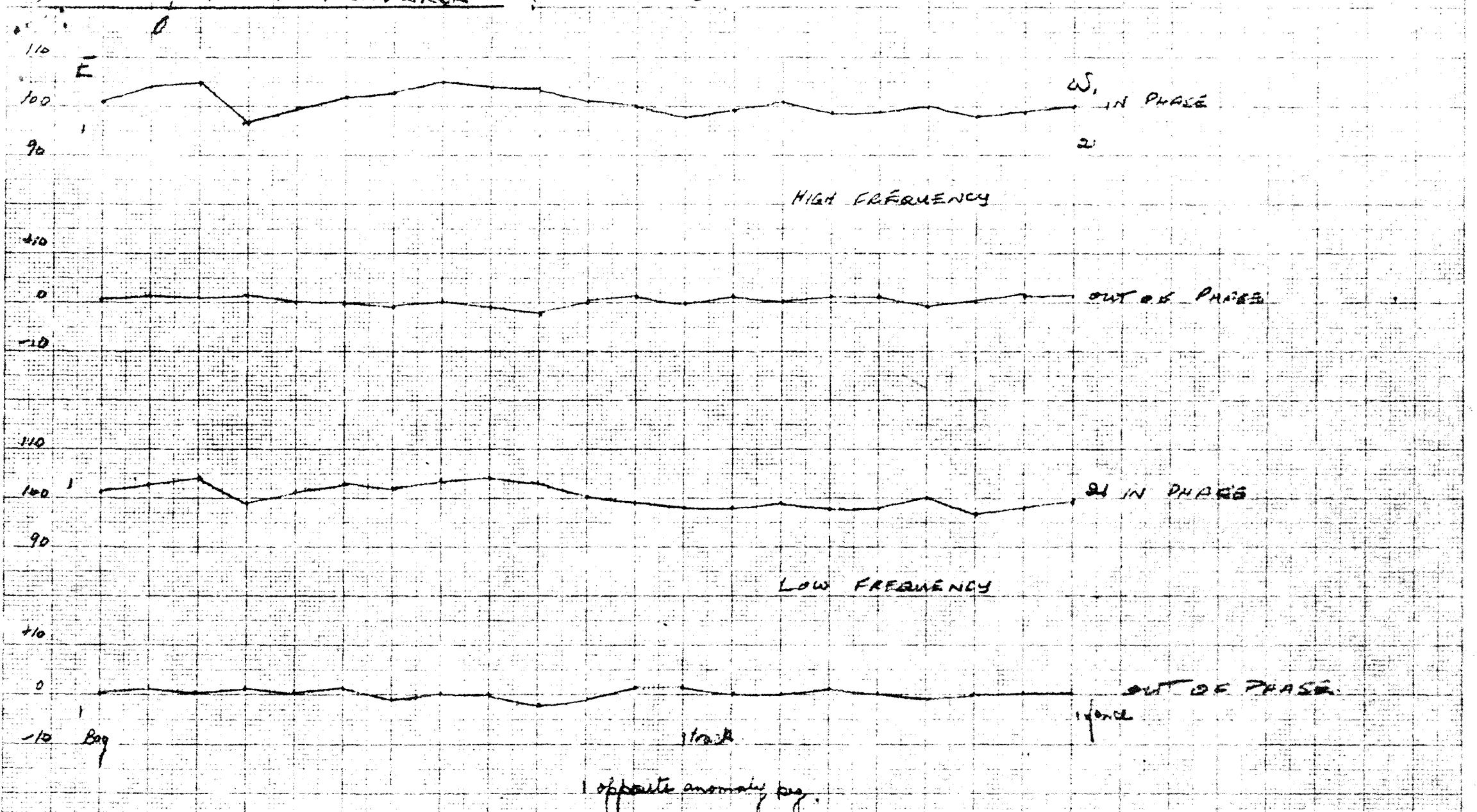
15

t

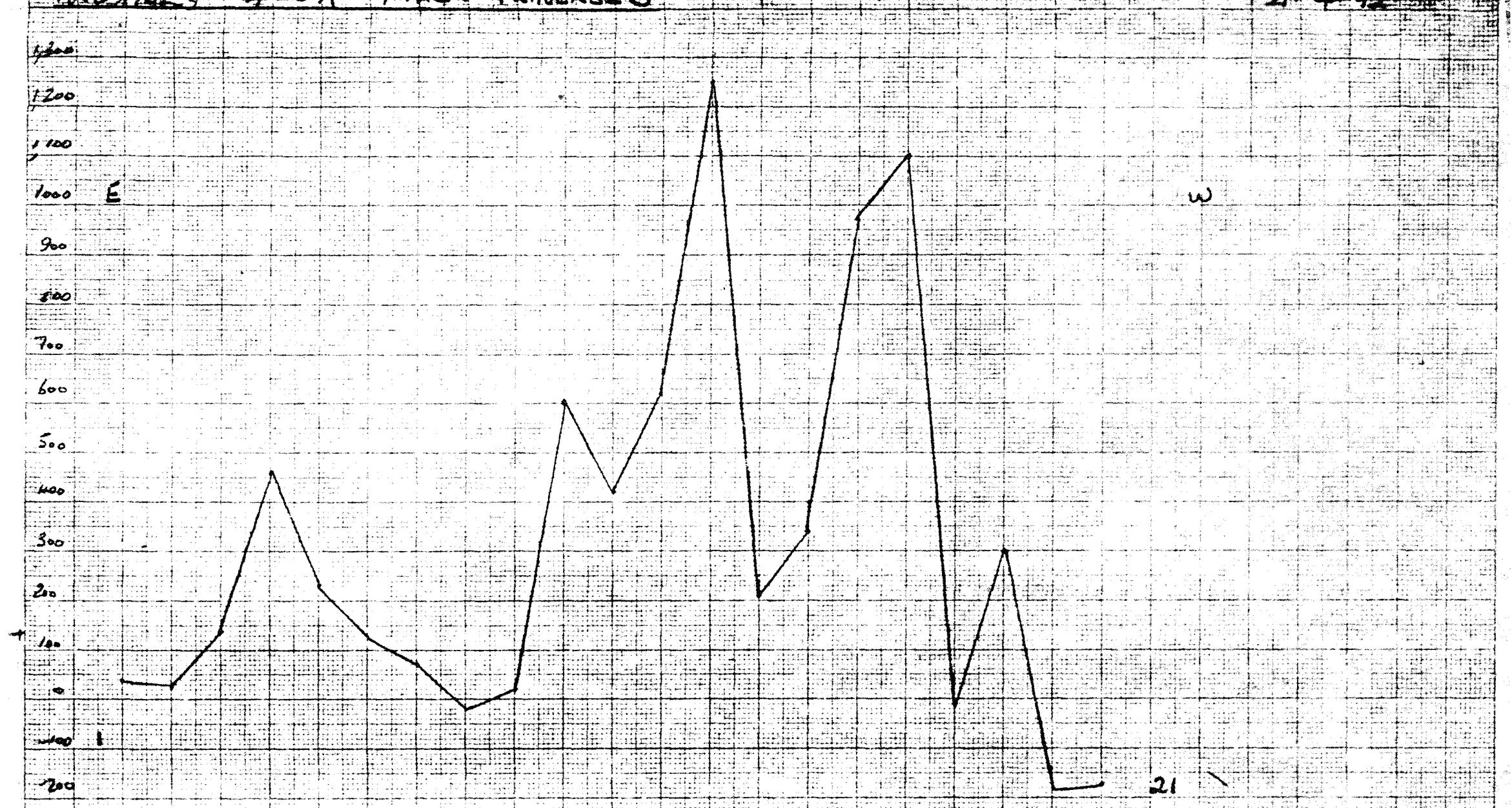
Snowmelt 428B. TRAVERSE 3 MAG.



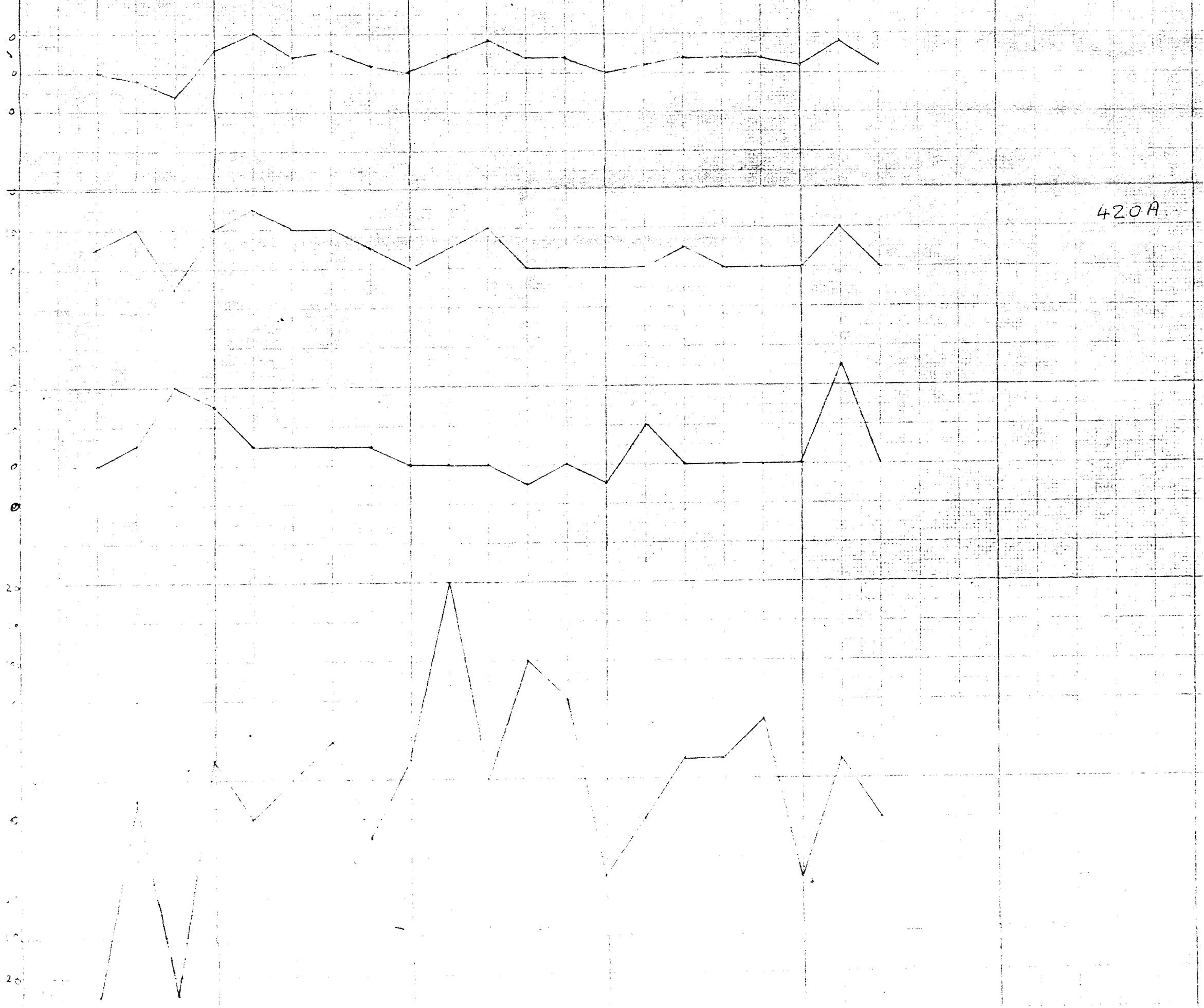
Anomaly 420A TRAVERSE 3 E.M. SURV. 1960 ad 15-4-72 S. Hatchell



Anomaly 420A MTG TRAVERSE 3



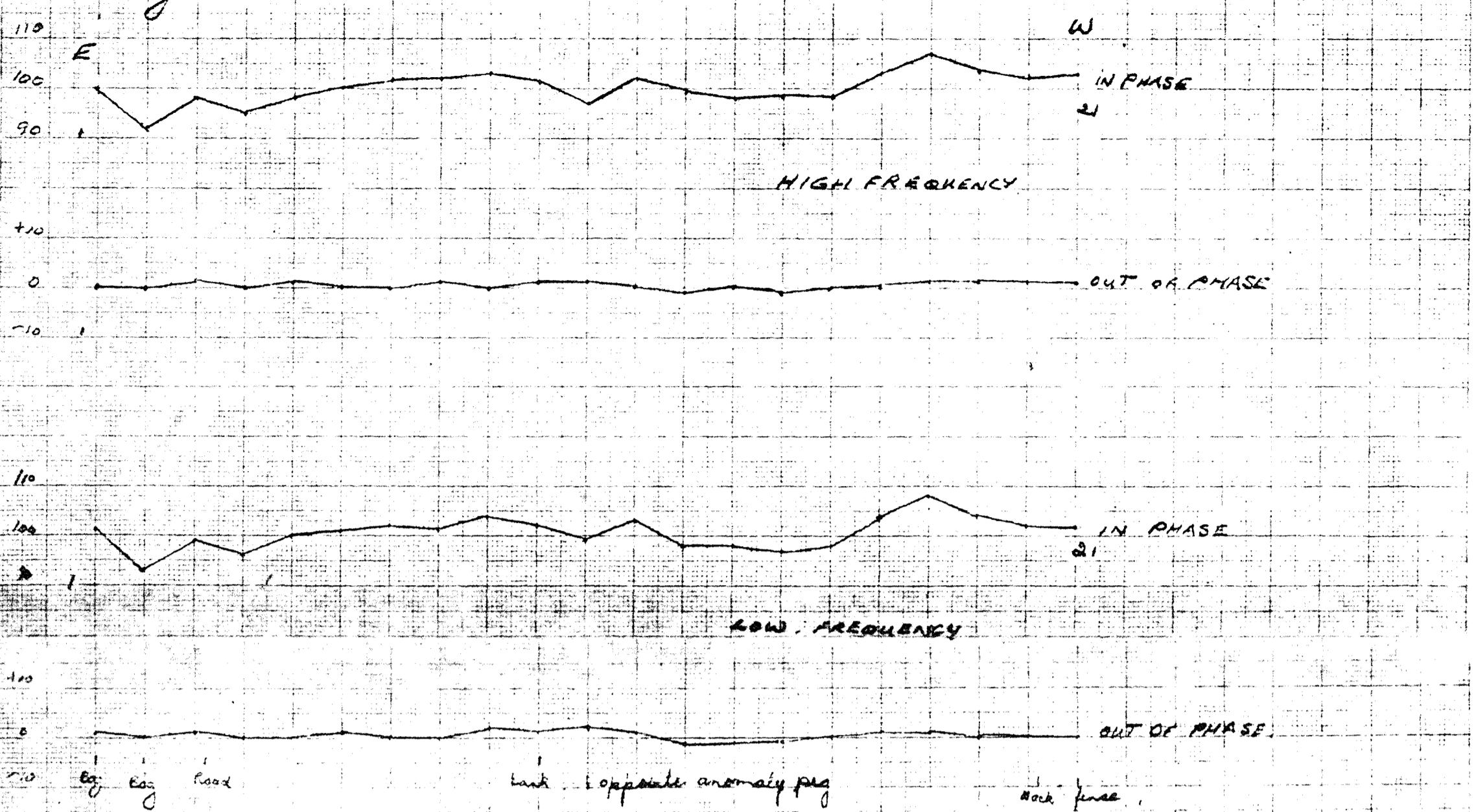
LEO CHEMISTRY PPM



Anomaly 420 A TRAVERSE 2

E.N.S.

Plotted 154-72 G Mitchell



ANOMALY 420 A MAG. TRAVERSE 2

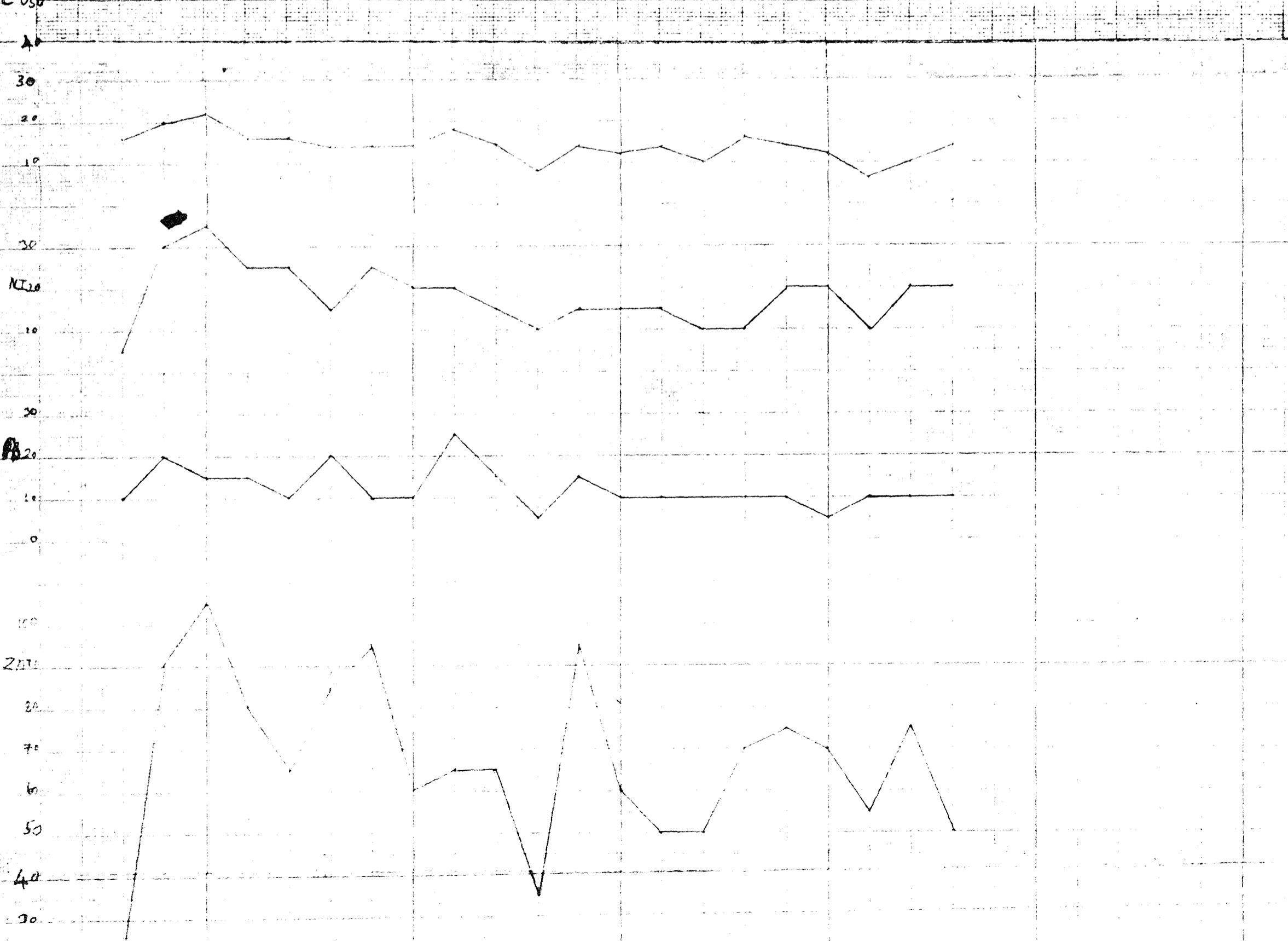
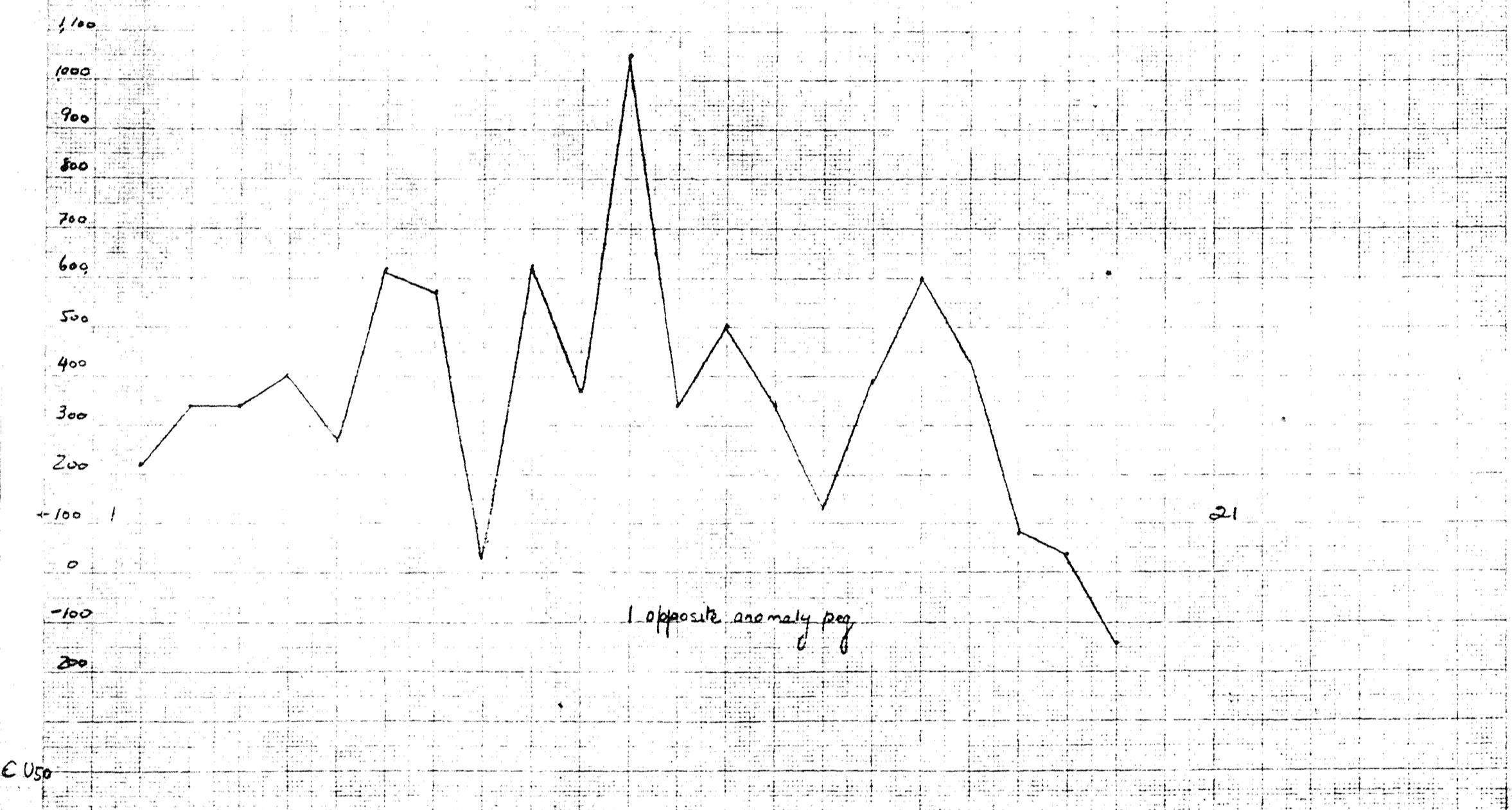


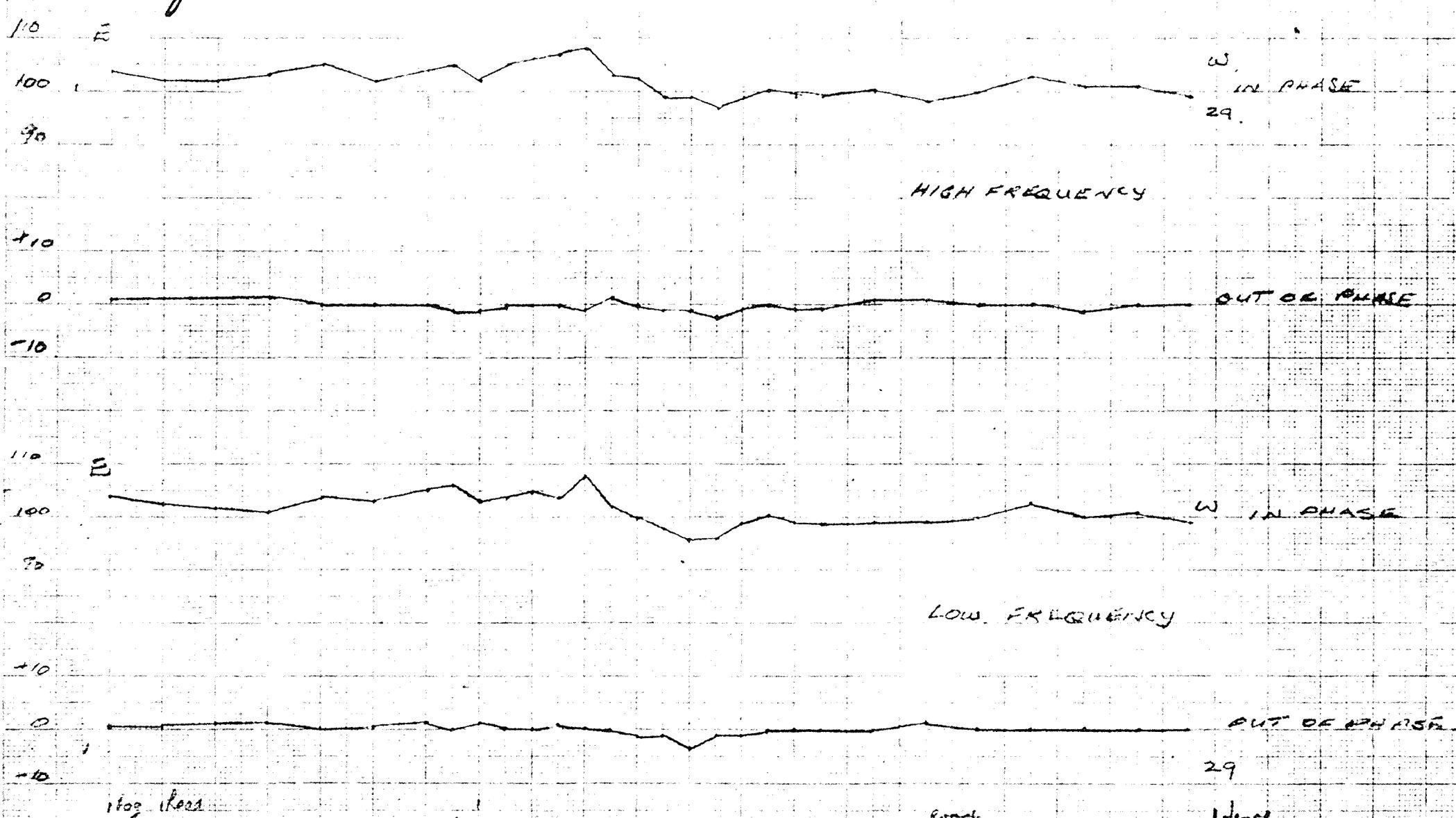
FIG. 5

Anomaly 420A PRIMARY TRAVERSE

E M Scan

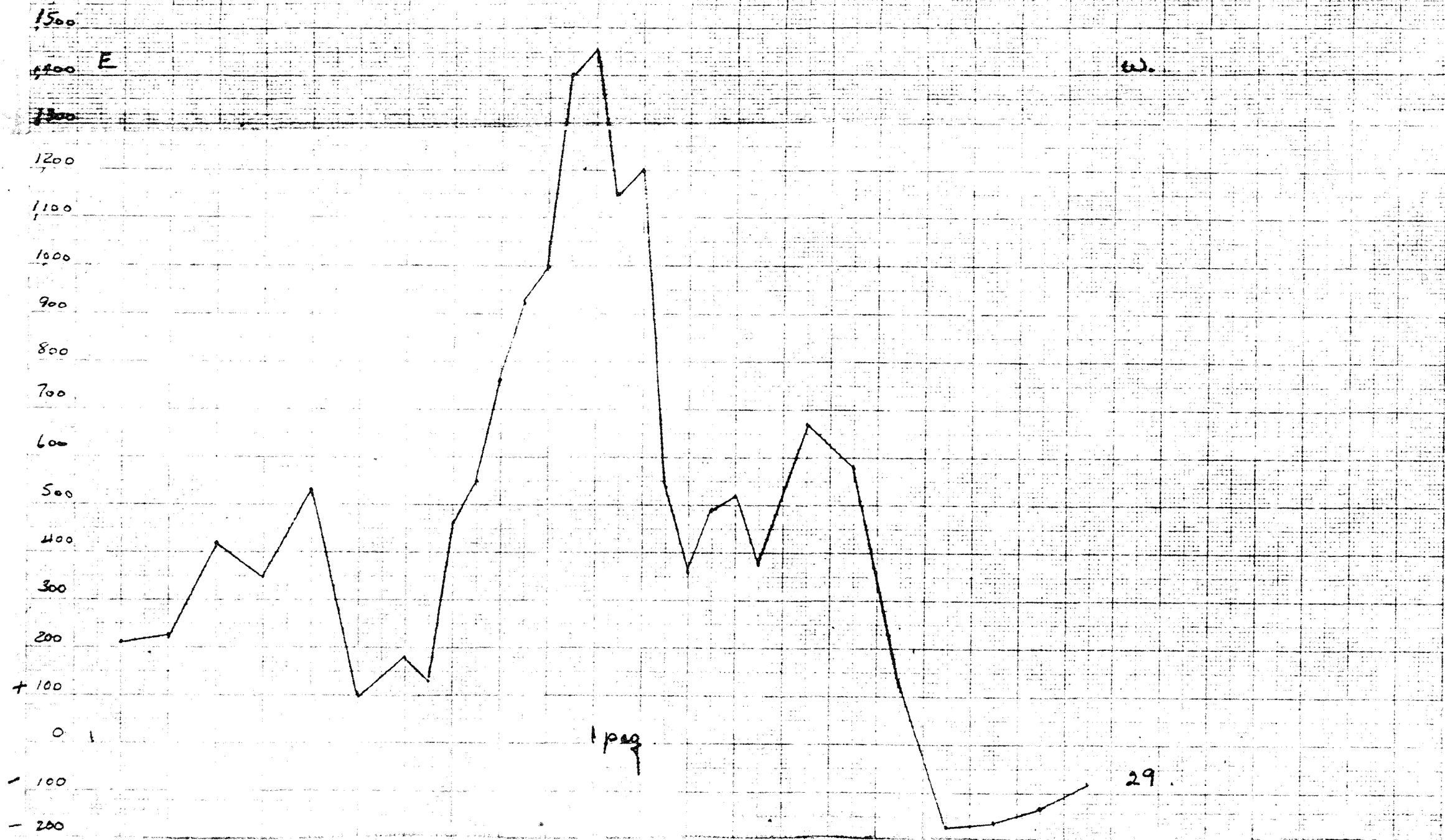
Plotted 15 4 72

S. Mitchell

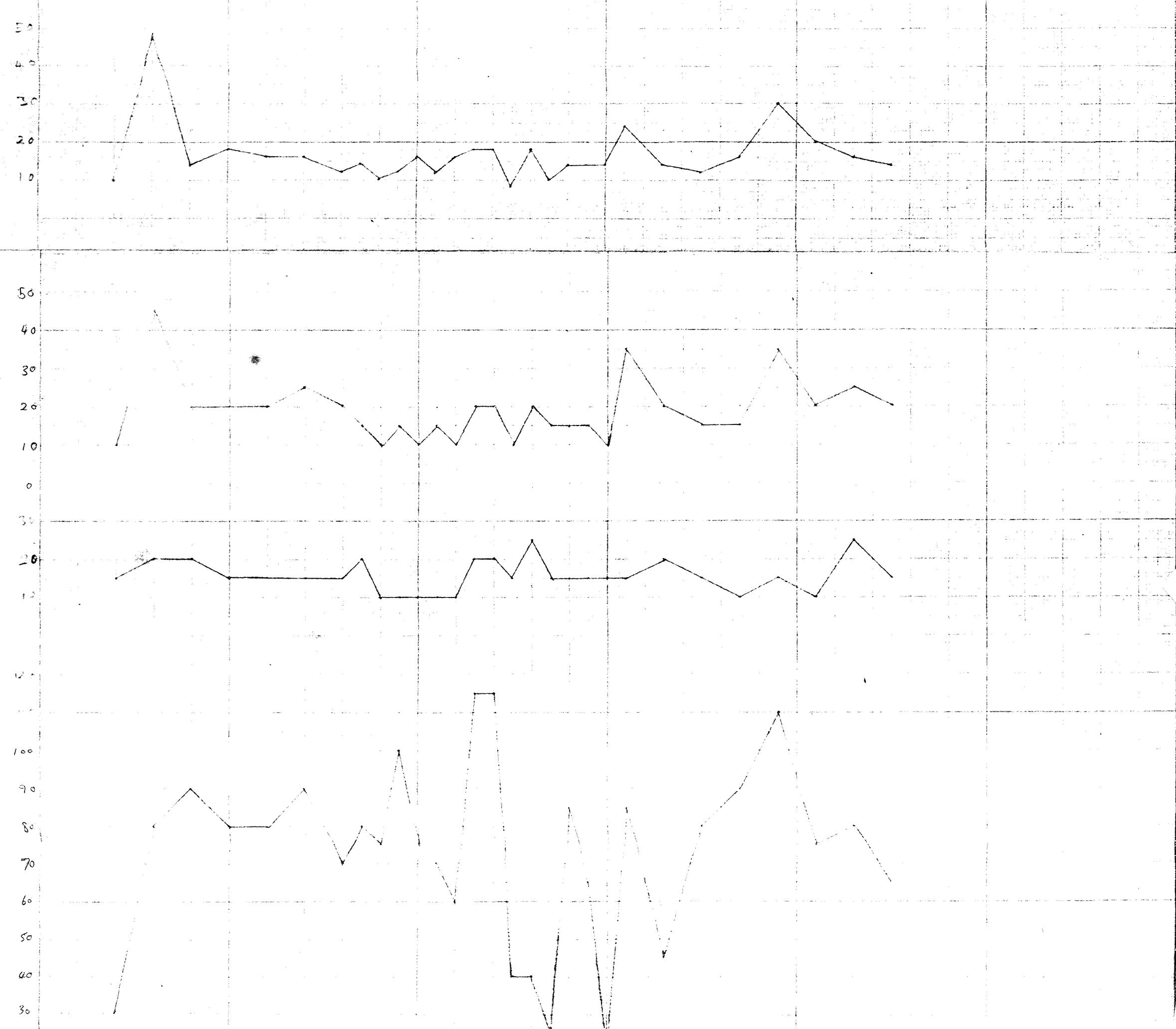


ANOMALY 420A MAG PRIMARY TRAVERSE

21-4-72

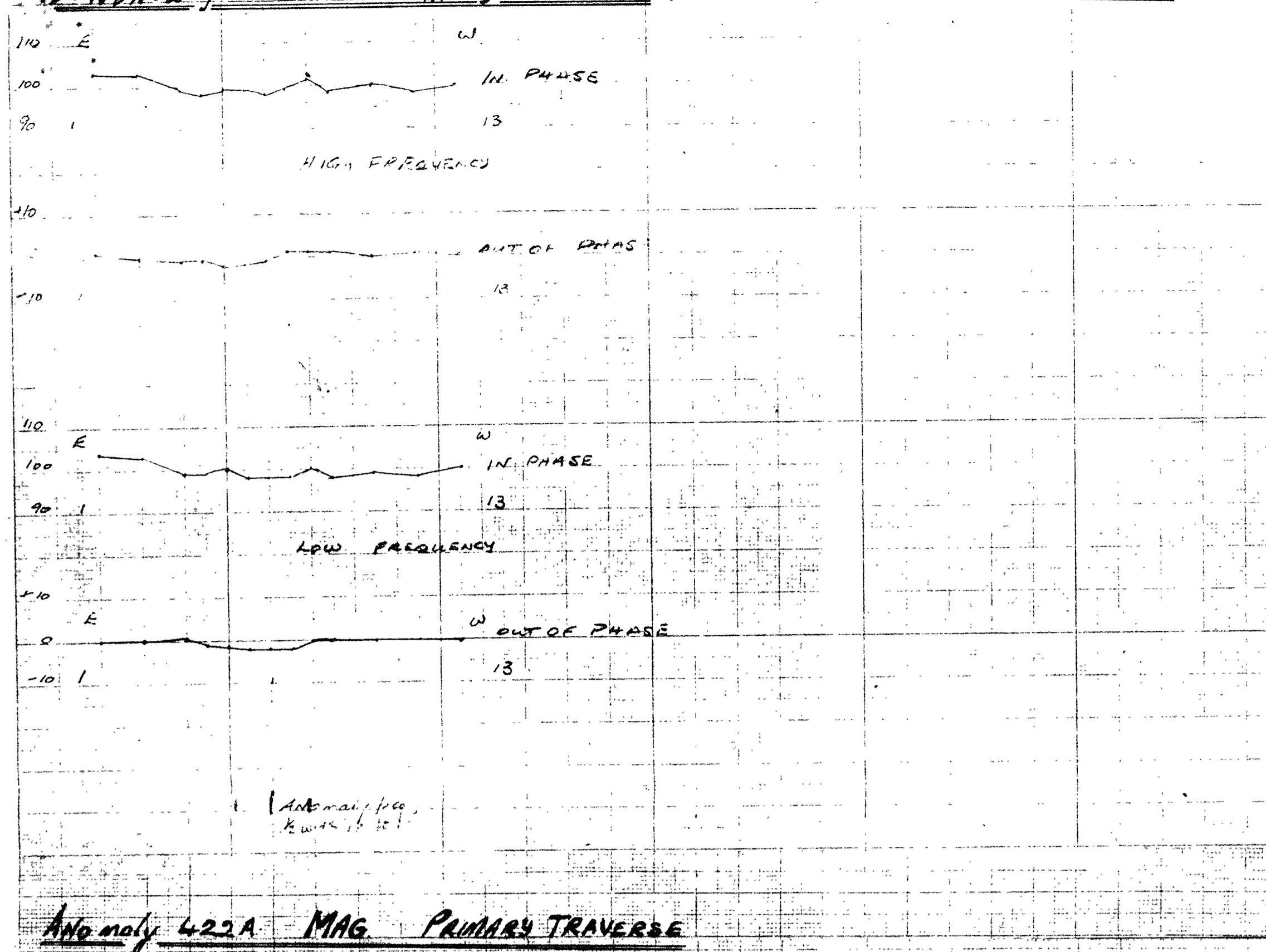


GEOCHEMISTRY PPM

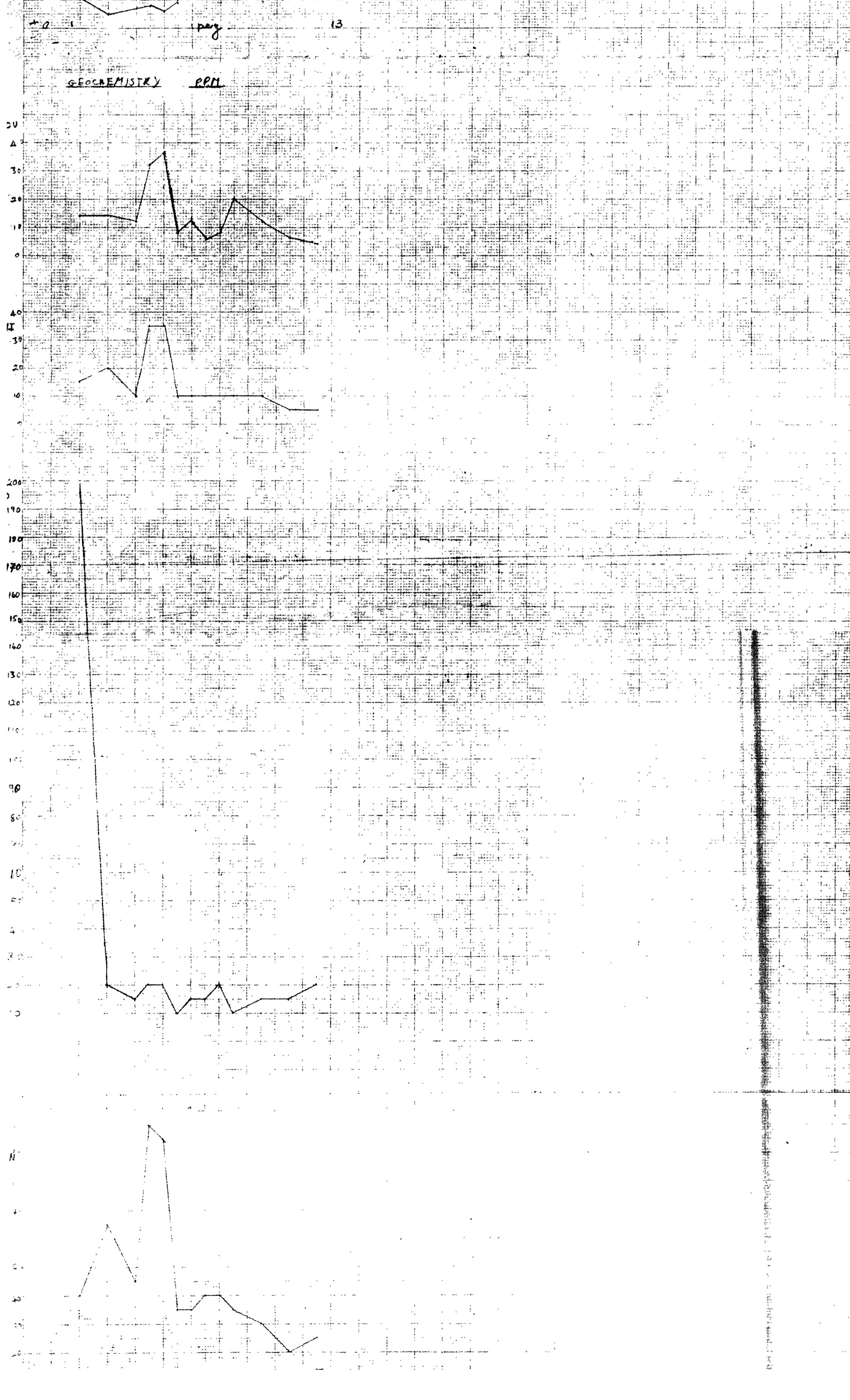


ANOMALY 422A PRIMARY TRAVERSE.

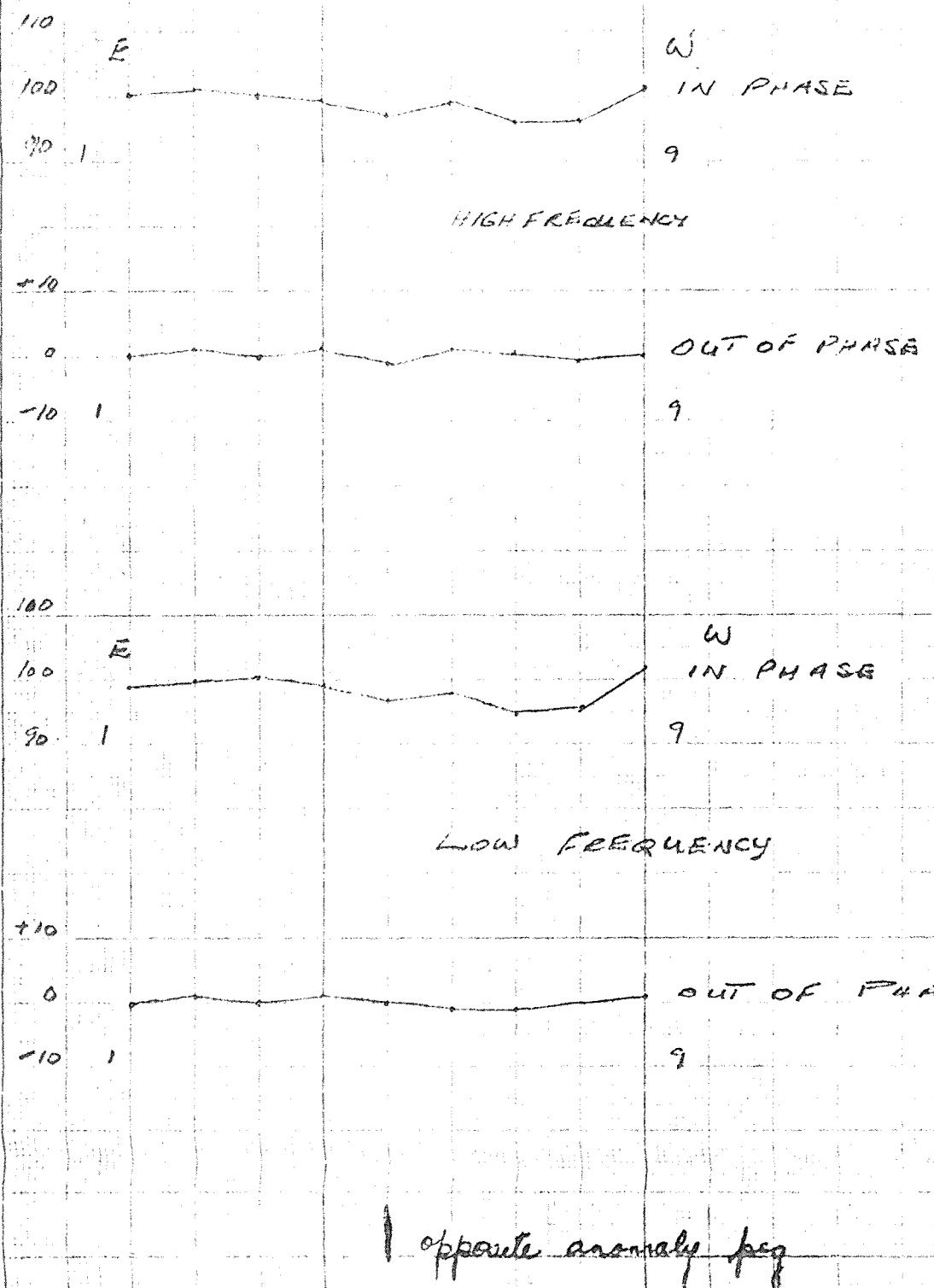
FIG 5



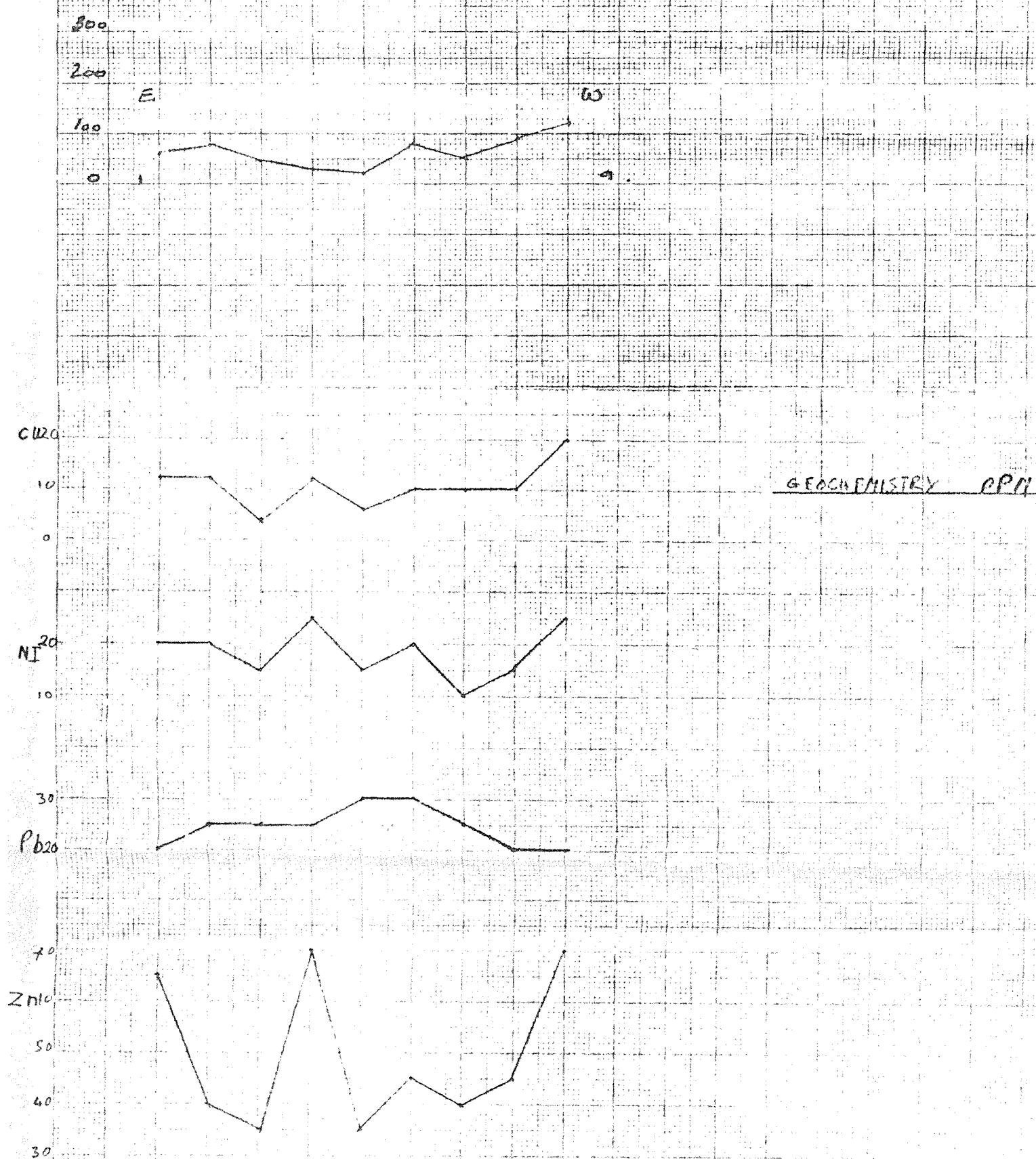
ANOMALY 422A MAG. PRIMARY TRAVERSE



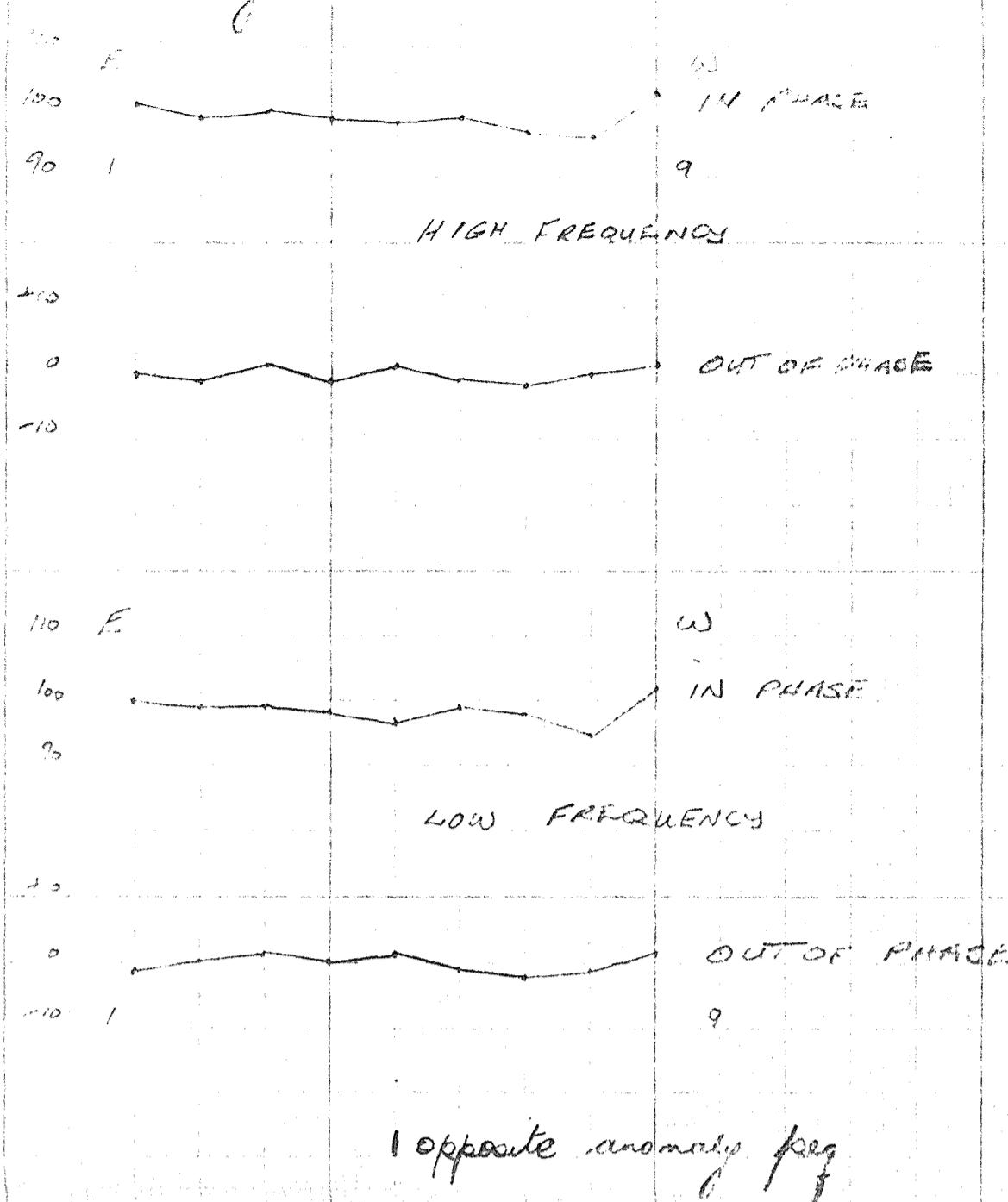
Anomaly 422 A TRAVERSE 2



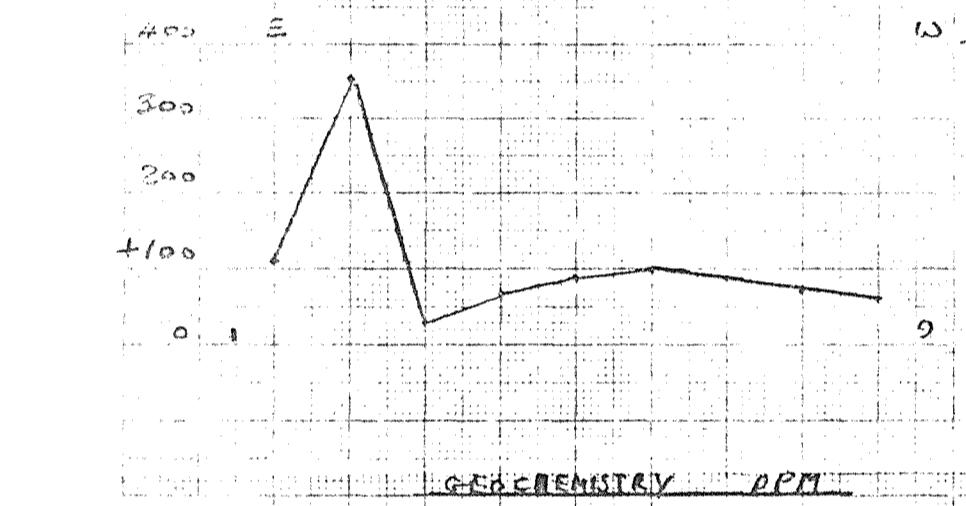
Anomaly 422 A MAG TRAVERSE 2



Anomaly 422A TRAVERSE 3



ANOMALY 422A MAG TRAVERSE 3



GEOCHEMISTRY PPM

Cu₂₀

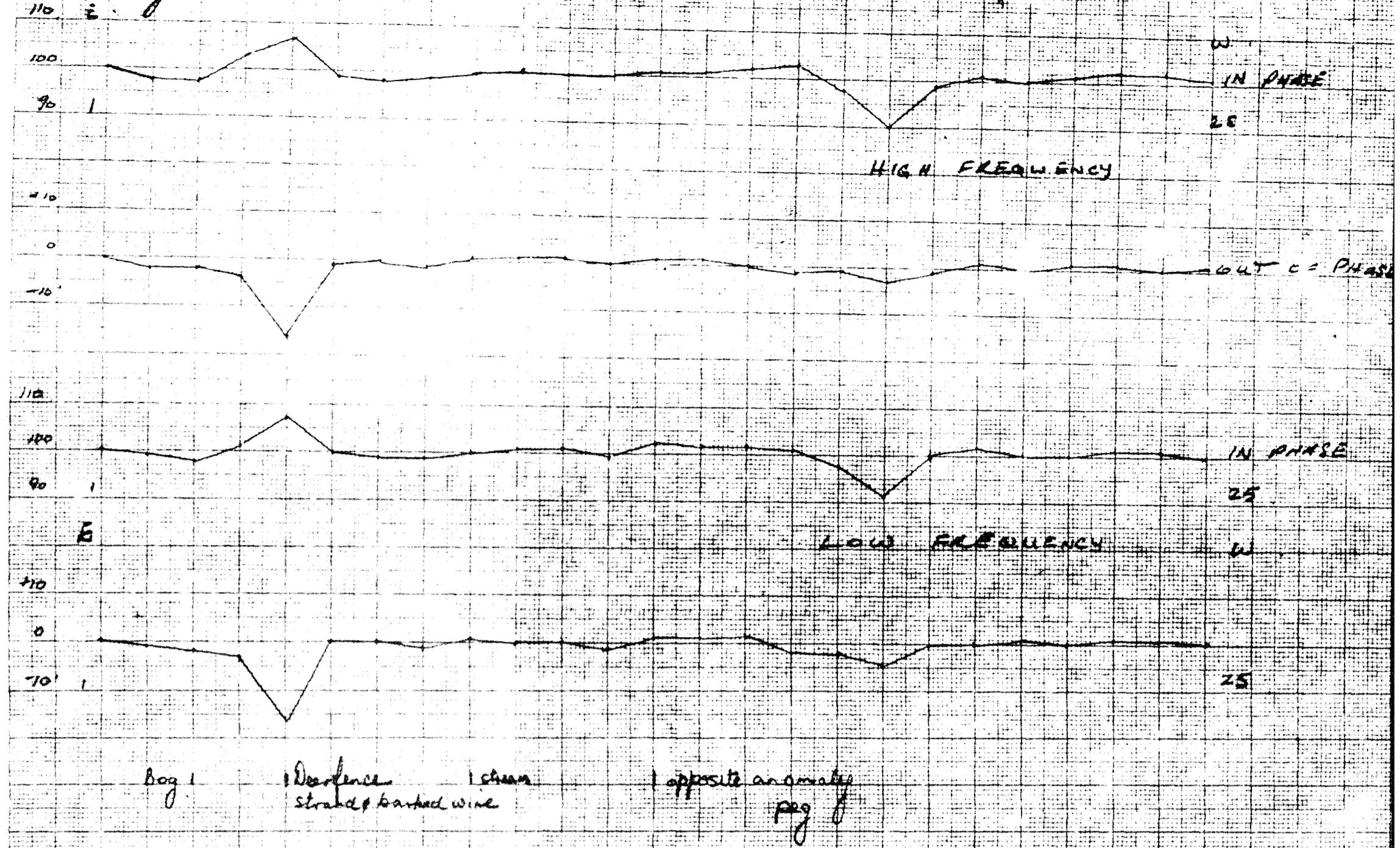
2745 ppm 850 ppm

Ni

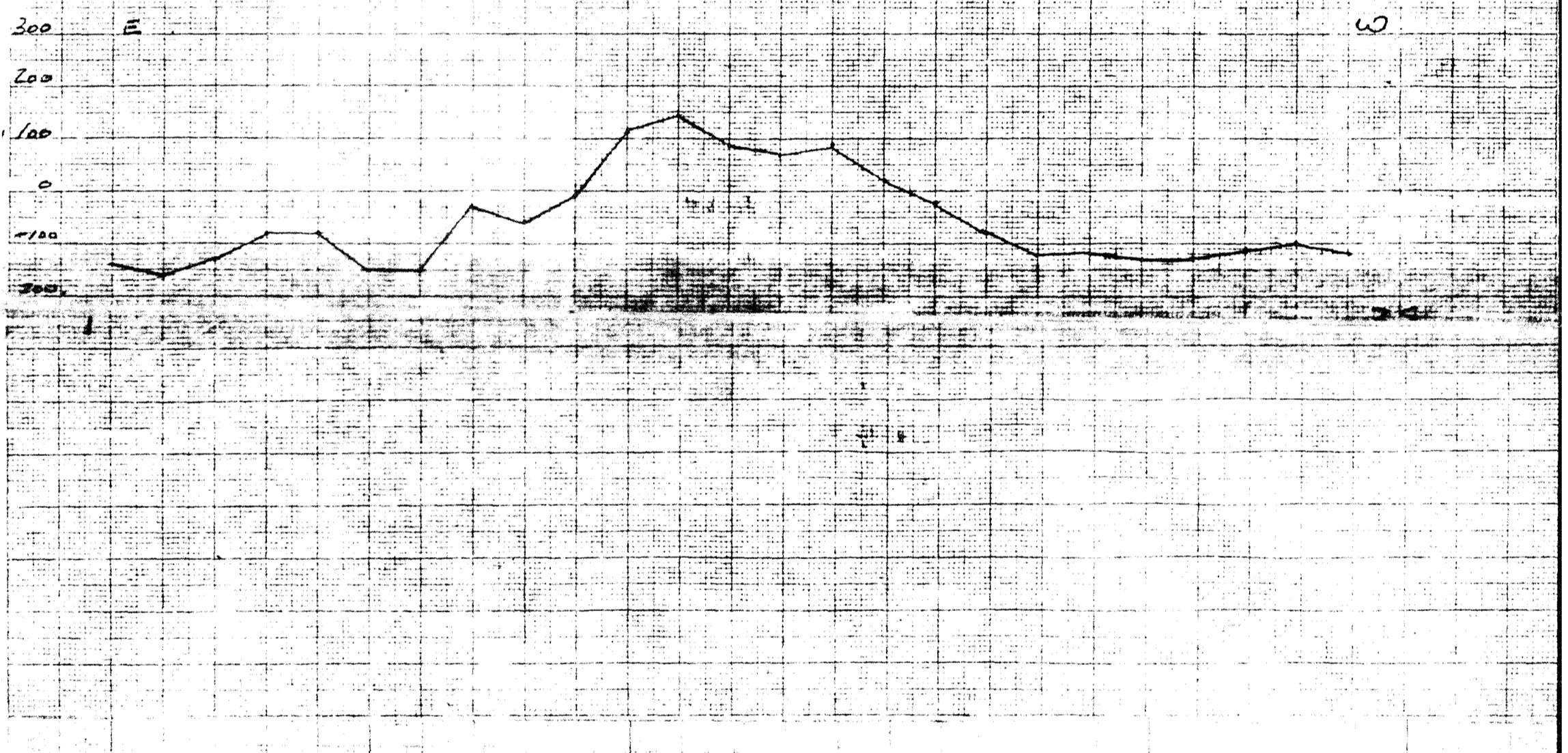
Pb₂₀

Zn

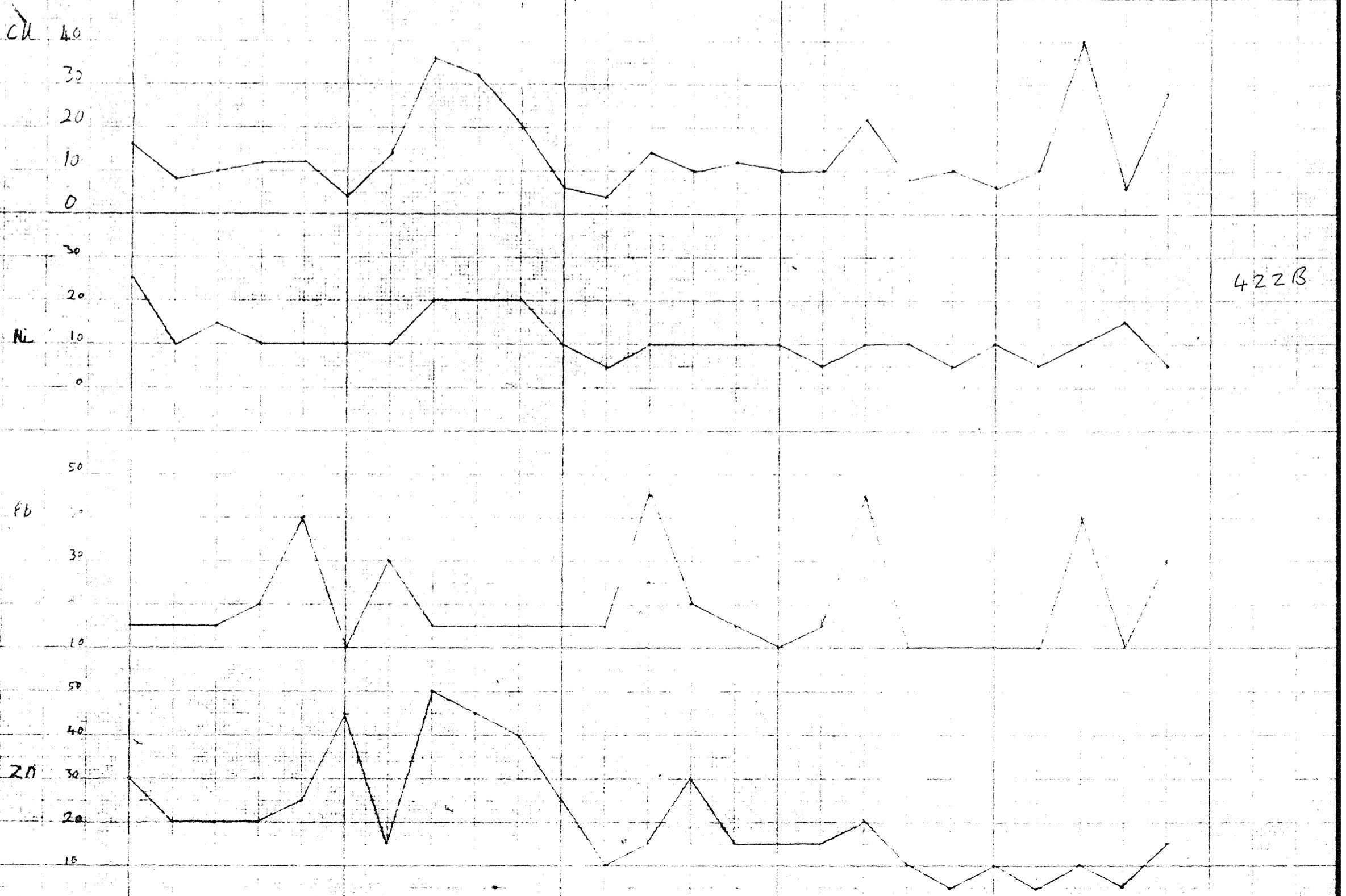
Anomaly 422B. TRAVERSE 3 E.M. Gun Zong cable. 20/4/72



ANOMALY 422B MAG. TRAVERSE 3

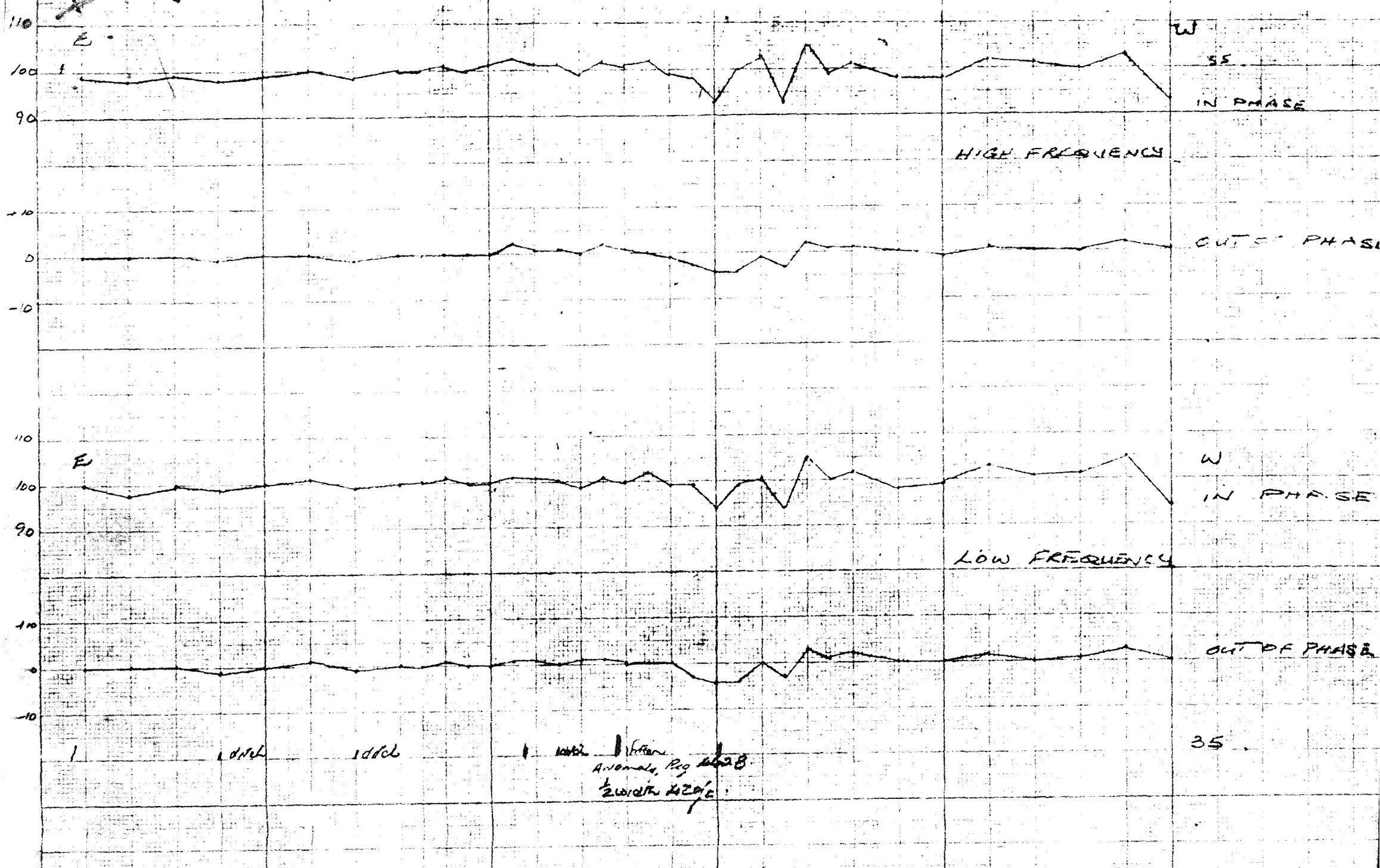


GEOCHEMISTRY D.P.M.

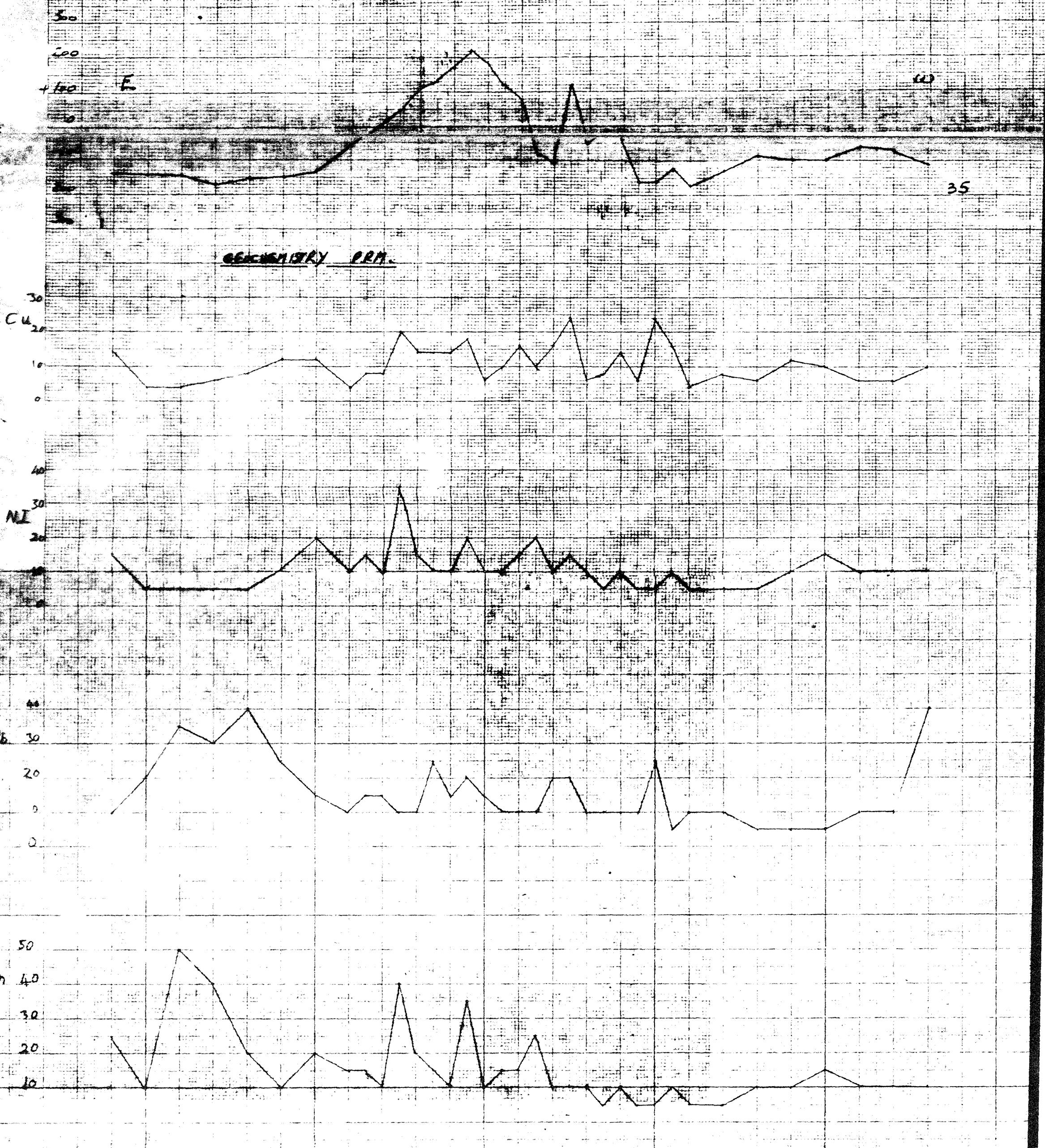


ANOMALY 422B - PRIMARY TRANSVERSE

F16.5



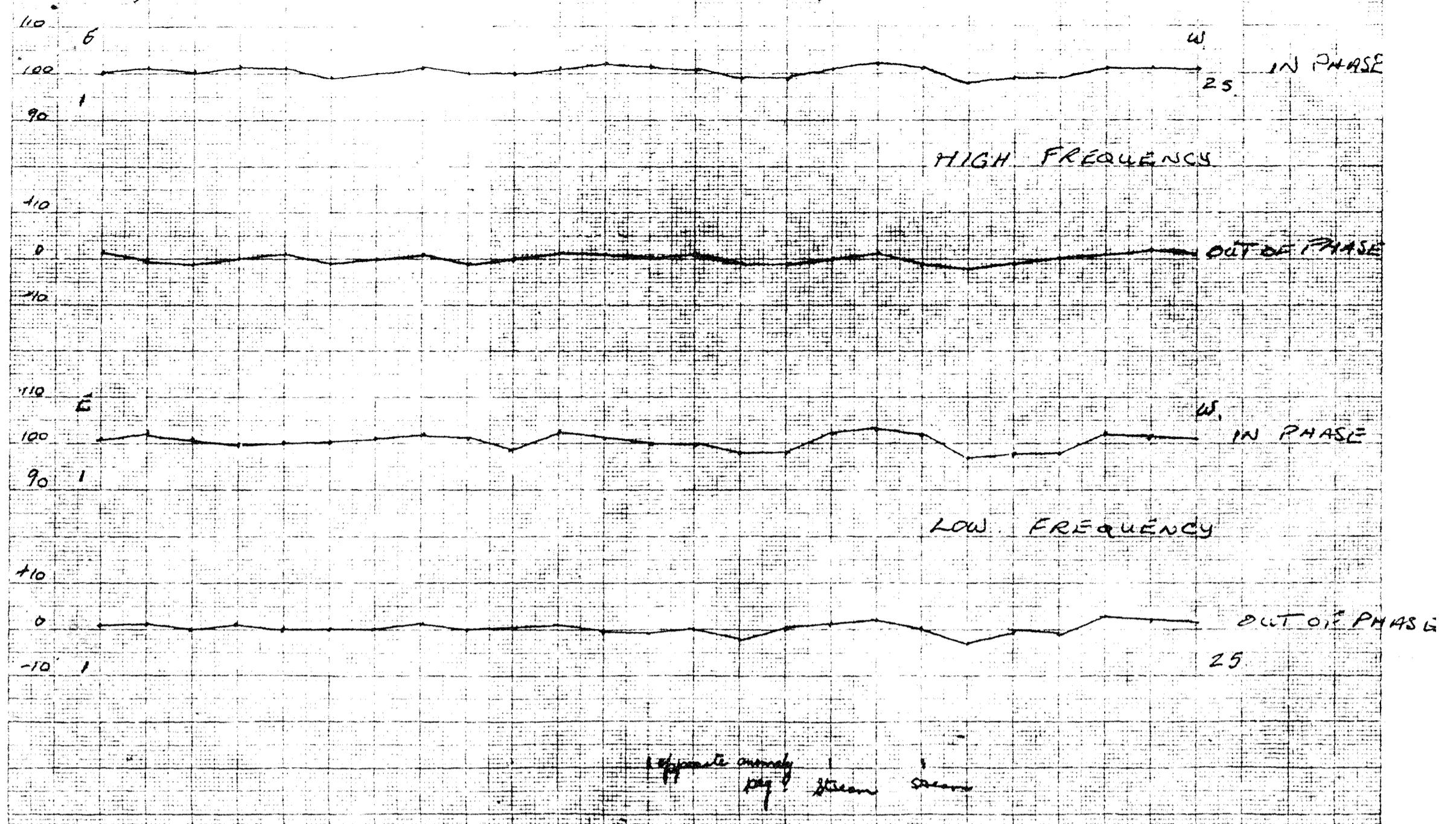
ANOMALY 422B MAG PRIMARY TRANVERSE



Anomaly 422B. Traverse 2

EM Gun 200ft cable

20/2/72 GN.



976.12.20	XSL 995	in. 25	N 57° 14' S
.13.20		.14.20	
.12.5		.13.15	
.18.15		.19.5	
.20.20		.14.5	
161.12.35		.8.10	.2.5
1153.16.25		.14.40	.18.20
16.30		.13.45	.20.20
.18.30		.18.50	.16.20
1261.14.30		.20.45	.26.80
.16.30		.12.35	.10.25
.10.15		.22.30	.20.15
.12.20		.20.40	.20.40
.20.35		.22.50	.10.45
X 1856.16.20		.14.60	.20.30
		.20.70	.18.60
		.18.50	.12.30
		.36.60	.14.125
		.26.40	.20.320
1255.18.30		.24.40	.24.125
.20.20		.28.295	.24.315
XSL 1242.32.32		.38.130	.14.220
.20.30		.22.210	.16.125
.32.40		.20.400	.16.95
.28.60		.28.80	.26.65
.26.45		.28.45	.22.100
.22.65		.28.75	.24.85
.22.65		.12.1000	.24.85
.18.435		.8.940	.8.900
1269.24.80		.12.750	.6.100
		.10.850	.10.700
		.10.700	.4.450
		.6.1050	.6.1450
1270.14.850		.8.1300	.9.1600
		.10.650	.11.1500
		.4.850	.14.3100
XSL 1294.8.800		.6.1000	.8.800
.8.650		.10.800	.14.600
1296.22.1050		.8.1000	.10.800
		.10.150	.14.650
XSL 1297.12.1050		.6.140	.6.1250
		.12.150	.6.1050
		.6.440	.6.800
		.4.750	.8.150
		.6.950	.9.2150
Y	XSL 1286.6.850	.2.200	.14.650
		.6.1000	.8.750
		.9.1950	.6.1050
		.2.2050	.10.900
		.4.445	.14.500
1285.3.110		.4.750	.9.650
		.4.1600	.10.650
		.4.125	.4.310
		.2.30	.8.90
		.6.40	.6.410
		.2.110	.6.190
		.8.110	.8.1050
		.6.160	.6.120
		10.900	.12.315
		.4.445	.14.150
		.10.10	.14.900
		.10.35	.11.150
		.8.195	.12.700
		.13.80	.14.100
		12.14.10	.10.10
		.6.55	.6.85
		.14.68	.10.25
		.10.20	.6.10
		.6.10	.10.60
		.10.10	.10.15
		.10.15	.10.50
		.16.25	.8.25
		.6.10	.8.30
		.10.15	.14.55
		.14.20	.10.45
		12.5.4.5	.10.50
		.10.45	.10.50
		.10.35	.8.30
		.10.20	.8.30
		.8.25	.8.35
		.10.10	.8.10
		.12.60	.6.10
		.10.35	.4.10
		.8.20	.10.20
		.8.25	.16.35
		.10.30	.4.35
		10.77.12.25	.10.76
		.12.35	.12.35
			XSL 934.10.70
			.10.70
			.6.315
			.8.85
			.4.435
			.10.115
			.10.705
			.8.55
			.14.165
			.16.120
			.12.45
			.10.35
			.14.30
			.16.30
			.6.15
			.4.25
			.10.25
			.8.15
			12.910.12.20

Sampling Dispersed
Samples Transferred
From Sample 126 to 125.

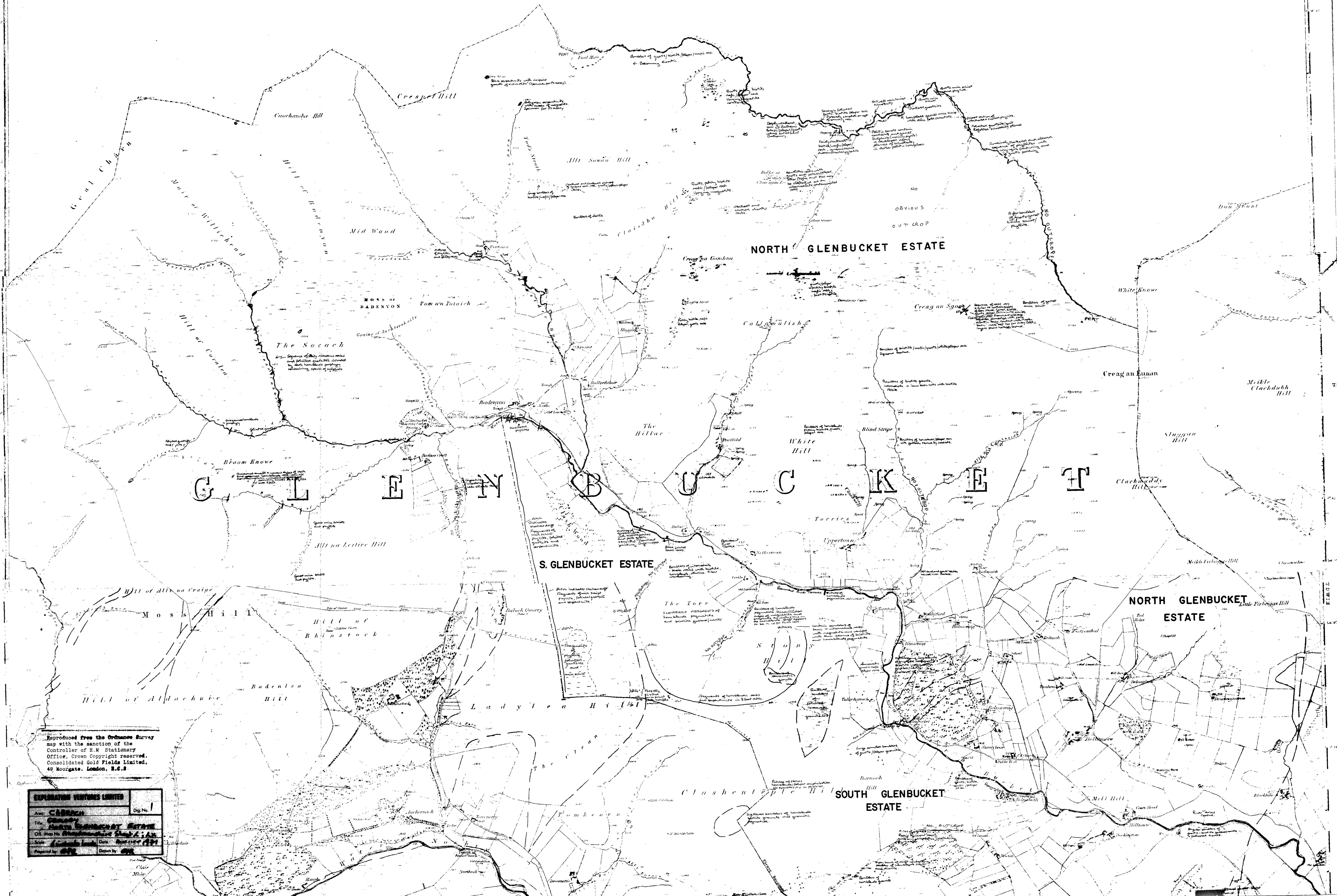
C 350 Sample

EXPLORATION VENTURES LIMITED	Site No.
CABRACH	
TYPE SOIL GEOCHEMISTRY	
COPPER - NICKEL VALUES (ppm)	
GREEN HILL AREA	
P.S. Map No. ABERDEENSHIRE LX	
Date 1: 10,560	Date JULY 1972
Drill No. S.M.	Drill No. S.M.

No Contaminated Areas

2000
1000
2000

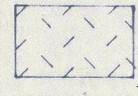
Values shown Thus L.H.N.



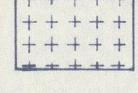
	1825.10.10	1877.6.5	1878.6.5	1881.12.10	1882.10.25	1885.28.25	1886.2.10	1888.22.20	1890.14.15	
10.15										
12.25	.810	.14.10	.18.15	.21.	.16.10	.12.15	.28.35	.810	.24.35	
12.20	.810	.12.10	.16.15	.14.15	.24.30	.6.15	.20.20	.16.20	.16.5	
8.15	.18.30	.16.10	.22.20	.8.15	.18.20	.18.35	.16.20	.20.20	.20.30	
12.10	.6.5	.16.10	.10.5	.8.10	.20.20	.10.15	.10.15	.26.30	.14.10	1888.18.35
13.45	.14.10	.8.5	.18.20	.30.20	.18.10	.14.5	.10.15	.26.20	.8.25	.10.15
12.10	.28.35		.24.25	.30.35	.8.10	.12.15	.20.25	.16.10	.10.10	.10.10
20.10	.24.35	.16.15	.20.20	.8.10	.12.10	.10.15	.18.20	.18.15	.10.10	.6.15
14.15	.16.25	.14.10	.24.35	.24.45	.14.25	.10.15	.20.25	.14.30	.18.20	.30.35
18.20	.10.10	.18.25	.10.15	.18.10	.18.25	.26.30	.4.5	.28.20	.20.30	.26.30
12.30	.29.30	.18.25	.16.35	.10.10	.18.25	.14.5	.18.25	.18.20	.16.30	.23.25
18.20	.12.15	.18.20	.18.30	.50.40	.30.45	.14.15	.12.10	.24.25	.8.20	.29.25
4.5	.18.25	.14.20	.6.10	.22.15	.20.25	.28.35	.6.10	.22.30	.10.15	.18.20
18.20	.26.25	.10.15	.10.30	.12.10	.30.40	.6.10	.14.10	.16.15	.6.15	.10.10
2.60	.18.15	.18.25	.24.50	.20.15	.28.25	.20.25	.10.15	.24.30	.4.5	.14.30
22.25	.34.25	.18.30	.20.35	.30.40	.22.25	.18.30	.18.20	.18.20	.36.15	.10.10
14.10	.28.45	.24.35	.24.35	.22.35	.22.30	.10.15	.16.25	.20.25	.10.10	.14.20
22.30	.34.35	.20.35	.22.35	.18.35	.22.35	.20.35	.18.25	.16.70	.20.25	.7.5
20.35	.28.40	.24.40	.24.30	.9.45	.24.30	.18.20	.16.20	.12.15	.12.15	1889.14.20
18.20	.26.80	.19.40	.24.30	.28.35	.16.15	.8.10	.6.10	.18.25	.16.10	.14.10
14.90	.18.65	.8.30	.20.35	.26.40	.18.15	.10.10	.2.5	.22.35	.18.30	.22.15
6.15	.14.70	.4.35	.20.35	.30.40	.12.20	.10.20	.8.5	.20.35	.18.25	.10.25
10.25	.16.80	.10.35	.24.55	.24.35	.16.20	.10.10	.6.10	.24.35	.16.20	.4.5
2.85	.14.45	.10.50	.23.45	.30.45	.16.25	.10.10	.10.10	.20.35	.18.15	.18.15
10.10	1887.28.310	1882.14.125	1885.14.215	1885.14.215	1885.14.215	1885.14.215	1885.14.215	1885.14.215	1885.14.215	1885.14.215
10.10	1884.18.310	1884.18.310	1884.18.310	1884.18.310	1884.18.310	1884.18.310	1884.18.310	1884.18.310	1884.18.310	1884.18.310
14.20	14.950	14.185	18.180	18.180	16.40	24.30	.30.35	16.15	16.90	.8.5
10.15	14.650	6.370	8.950	8.950	24.60	24.30	.30.40	16.20	18.20	.4.15
12.20	6.450	14.175	8.750	8.750	22.15	24.25	.24.35	20.30	18.20	.14.25
10.10	2.5	6.180	14.400	10.400	22.45	34.35	.22.30	30.15	16.15	.20.35
10.15	14.30	14.520	4.850	6.600	22.50	28.30	.20.40	26.50	22.10	.36.55
10.15	8.70	3.470	4.750	4.750	24.60	20.30	.30.35	24.55	22.60	.4.10
14.20	14.290	2.620	2.8150	6.750	20.70	24.40	.32.55	18.15	24.65	.16.40
6.15	2.1150	1.1130	22.90	18.30	32.60	.10.40	.24.25	22.75	16.70	.16.50
14.90	1.1170	10.900	14.90	18.30	32.10	.18.50	.24.15	30.55	16.35	.18.140
12.25	10.450	10.485	4.555	14.800	20.150	18.65	.20.85	16.10	16.10	.20.125
16.04.2.25	8.60	12.800	2.1450	19.560	20.170	18.360	.20.205	18.15	18.15	20.10.22.50
10.435	6.450	4.650	4.650	6.750	17.850	20.295	22.15	20.60	16.585	
16.45	6.700	4.650	6.750	6.750	19.600	19.600	19.600	19.600	20.325	
26.40	6.590	3.150	3.150	4.1300	10.550	36.190	24.155	26.85	20.250	
16.25	6.800	10.800	10.800	10.800	14.150	28.310	26.140	30.110	28.120	
2.85	4.660	8.600	8.600	1.450	16.400	28.270	30.160	24.05		
10.25.18.20	14.95	6.650	6.650	6.455	16.210	30.420	22.85	16.90		
10.15	12.20	1.365	1.8540	14.560	35.80	32.115	18.70			
10.15	10.100	10.530	10.530	8.170	18.130	26.105	26.170			
10.20	8.365	8.570	8.570	18.930	18.360	30.105	30.140			
6.40	4.660	6.1350	6.1350	8.930	32.115	24.90	22.80			
10.25	6.700	14.190	14.190	10.425	18.185	28.120	24.50			
12.10	18.95	1.6.900	14.1900	16.90	20.150	28.95	18.60			
10.20	10.80	14.435	12.190	18.190	33.10	26.100				
13.6.13.10	16.93.8.30	18.94.2.800	20.18.8.485	10.25	18.45	24.80	20.65			
10.21	10.80	1.5	17.54	20.30	17.54	18.45	22.35			
12.22	19.165	19.60	36.60	19.59	14.20	19.17	14.30			
6.15	8.125	12.23	12.23	14.93	16.20	16.20	16.20			
10.20	14.40	16.30	16.30	16.30	18.20	14.20				
10.25	14.35	16.35	16.35	16.35	16.35	14.15				
10.10	14.30	20.40	20.40	10.9	20.35	20.35	20.35			
9.15	10.40	18.45	18.45	8.5	16.20	18.19	20.65			
6.20	14.20	18.35	18.35	16.15	16.30	17.6	20.50			
10.25	14.25	16.40	16.40	18.2	18.35	18.35	18.35			
10.25	10.25	16.20	16.20	20.30	20.30	20.40	20.40			
10.25	16.20	16.20	16.20	16.20	16.20	20.30	20.30			
10.25	16.20	16.20	16.20	16.20	16.20	16.20	16.20			
10.25	16.20	16.20	16.20	16.20	16.20	16.20	16.20			
10.25	16.20	16.20	16.20	16.20</td						



YOUNGER IGNEOUS COMPLEX



GRANITE

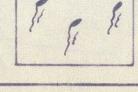


NORITE AND HYPERSTHENE GABBRO, OLIVINE
GABBRO, TROCTOLITE, CUMULATIVES

OLDER IGNEOUS COMPLEX



GABBRO, EPIDIORITE, AMPHIBOLITE, HORN BLENDÉ SCHIST



SERPENTINITE, PYROXENITE

EXPLORATION VENTURES LTD.

TITLE

PLAN TO ACCOMPANY APPLICATION DATED 6TH AUG. 1971.
UNDER THE MINERAL EXPLORATION INCENTIVE SCHEME
IN RESPECT OF

CABRACH PROJECT

SCALE 4 MILES TO 1 INCH	PREPARED CGF / RTZ	DATE 6.8.71	FIG No.
O.S. SHEET No. 5	DRAWN C.E.W.	REVISED	