

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

COMPANY: EXPLORATION VENTURES LTD
PROJECT: BOGANCLOUGH

REF: AE 10
MRD 84/5/5
MRD 144/5/5

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- Extract from application 6.8.71. "Outline of proposed project geological considerations work programme" with accompanying plan, 1": 4 miles
 - Geological Report 9.8.71 to 31.12.71 with enclosures 1 to 5
 - Fig 1 Geological float and outcrop map. Aberdeenshire XXXIII NE, SE, SW
 - Fig 2 Geochemical soil values for Cu, Ni. Aberdeenshire XXXIII W & E, XLII W & E
 - Fig 3 Apparent chargeability values. Aberdeenshire XXXIII W & E, XLII W & E
 - Fig 4 Apparent resistivity. Aberdeenshire XXXIII W & E, XLII W & E
 - Fig 5 Vertical magnetic intensity values. Aberdeenshire XXXIII W & E, XLII W & E
 - Geological Report 1.1.72 to 31.12.72 with enclosures 1 to 5
 - Fig 1 Infill stream sediment Geochemical analyses for Cu, Ni in ppm
 - Fig 2 Infill stream sediment Geochemical analyses for Pb, Zn in ppm
 - Fig 3 List summarising the ground follow up
 - Fig 4 Detailed profile results for E.M. magnetic and geochemical work (406A - 420B)
 - Fig 5 Map showing the location of the five anomalies. Part of OS Sheet 39
 - *CGF letter 28.2.75, RE CU analyses with enclosures. Tables 16A and 16C, Cu, Ni, S determination
 - Technical report for 1.1.73 to 31.12.73 with the following enclosures (this mentions Ruthven):
 - Fig 1 Location plan for shallow hole SH14
 - Fig 2 Borehole SH14 - Drill core record
- (Figs 13-16 Ruthven and Fig 1. West Insch. also refer)

* Not at Keyworth

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

Geological Report : Bogancloough AE10

During the period 9th August to 31st December, 1971, geological, geochemical and geophysical investigations were undertaken.

(i) Geology

Detailed geological mapping of the northern contact of the Bogancloough basic mass was carried out in the Glen of Noth area. Extensive graphitic schists float occurs along a zone of strong conductive responses.

(ii) Geochemistry

Systematic soil sampling of the Bogancloough basic mass and its contact zones was completed on a 1000' x 200' grid pattern. Samples were analysed for hot extractable Cu and Ni content.

(iii) Geophysics

a) Induced Polarization

Reconnaissance surveys employing Scintrex 25 watt time domain equipment and dipole-dipole arrays covered the central and northern areas of the magnetically anomalous Bogancloough mass. High chargeability anomalies were outlined over serpentinite at Old Merdrium and over contact rocks at the Glen of Noth area.

b) Ground Magnetometry

Vertical force magnetic readings were taken along lines coincident with the Induced Polarization surveys; strong magnetic patterns were outlined.

Enclosures

1. Geological float and outcrop map (Aberdeenshire XXXlll NE,SE,SW) ✓
2. Geochemical soil values for Cu and Ni in p.p.m. ✓
(Aberdeenshire XXXlll W & E, XLll W & E)
3. Apparent chargeability values in milliseconds ✓
(Aberdeenshire XXXlll W & E XLll W & E)
4. Apparent resistivity values in ohm metres. ✓
(Aberdeenshire XXXlll W & E XLll W & E)
5. Vertical magnetic intensity values in gammas. ✓
(Aberdeenshire XXXlll W & E XLll W & E)

MINERAL EXPLORATION INCENTIVE SCHEME

APPLICATION for assistance

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

2. Project title Bogancloough

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)

This is essentially the western end of the 28 mile long Insch Mass of younger gabbro which extends across the central part of the North-East Scotland area from Cabrach to Oldmeldrum. It is separated from the main body of the Insch Mass by a belt of Old Red Sandstone striking north-east and centred on Rhynie. Serpentinite masses occur along the northern and southern contacts of the gabbro with the surrounding sediments. The exploration programme is designed to locate base metal mineralisation in the form of Cu, Ni and related metals.

5. Work programme and costs of project

A reconnaissance geochemical soil survey is planned for this area together with the more detailed approach of relating soil and bedrock values. A small amount of reconnaissance induced polarisation remains to be carried out together with a magnetic survey of the area.

BOGANCLOUGH DISTRICT - AEL0

Geological Report - 1 January to 31 December 1972

During the period geological, geochemical and geophysical surveys were undertaken, principally as follow-up on the ground of surveys carried out prior to 1972, particularly of a previous airborne electromagnetic survey.

1. REGIONAL GEOCHEMISTRY.

Although infill stream sediment sampling was not specifically listed in the programme outlined in the Supplementary Application, it became apparent that a minor amount would be desirable for a small area to the south of Lumsden. This was therefore carried out, with samples being analysed for their Cu Ni Pb and Zn contents. Results are shown separately for Cu Ni and for Pb Zn, on copies of parts of the field working sheets, - Figs. 1 and 2.

2. GROUND FOLLOW-UP OF RECONNAISSANCE ANOMALIES.

A preliminary office study was made of the data from previous heliborne electromagnetic (HEM) and magnetic surveys, in conjunction with the aerial photographic mosaic. This enabled the early elimination of geophysical anomalies believed to be caused by man-made features. Five anomalies that appeared to result from natural sources were followed-up on the ground, by means of geological inspection, electromagnetic and magnetic surveying, and geochemical soil sampling, involving a total of 15 traverses in all.

This work used an ABEM EM Gun and a Sharpe MFL flux-gate magnetometer. Geochemical soil samples were taken where possible from the 'B' soil horizon and analysed for Cu Ni Pb and Zn by A.A.S. methods after hot extraction.

The location of the five anomalies is given on Fig. 5, and a summary of the work is given on Fig. 3. The detailed results are shown plotted in profile form, on copies of the eleven field working sheets, Fig. 4.

It had originally been intended to undertake induced polarization traverses (as forecast in the programme outline in the Supplementary Application) but a decision whether to carry out this work was postponed into 1973.

3. SOIL RESEARCH PROJECT.

Data relating to this project were analysed and assessed prior to the final write up of the results. (These results may be found in the final report submitted in October 1973, which applies to most EVL areas and time periods, including Bogancloough in 1972)

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2.

4. ENCLOSURES

1. Infill stream sediment geochemical analyses for Cu and Ni in ppm. (portion of 1" O.S. Sheet 39).
2. Infill stream sediment geochemical analyses for Pb and Zn in ppm. (portion of 1" O.S. Sheet 39).
3. List summarising the ground follow-up.
4. Detailed profile results for EM, magnetic and geochemical work.
5. Map showing the location of the five anomalies investigated, together with the regional geology. (portion of Sheet 39 - Strathdon).

K.C.B.

6.11.73

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3-5 Geophysics

1-5 File

BOGANCLOGH DISTRICT - AE10

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

During the period geochemical surveys and a short programme of shallow bedrock drilling was undertaken in this district.

1. Geochemistry

1.1 Multi-element Analyses

Samples of stream sediment material selected on the basis of one sample per square kilometre were analysed spectrographically for fifteen elements:- Bi, Co, Cr, Cu, Pb, Mo, Ni, Ag, Sn, V, W, Zn, Zr, Ti & Mn. Additionally, determinations for arsenic were made by atomic absorption methods.. This work formed part of a regional survey over much of western E.V.L. It sought to safeguard against overlooking economic concentrations of a number of elements which had not been considered at the time of the original reconnaissance geochemical survey. In the event no significant concentrations of unusual elements was established, or the presence of possible pathfinder elements indicated.

1.2 Metal:Sulphur Analyses (See Fig. 1 West Insch)

Samples of sulphide-bearing outcrop and float were collected from the Boganclogh basic/ultrabasic complex and analysed for total Cu, Ni & S. Most of the material was taken from the serpentinite belt which skirts the northern contact of the complex. In the main, results suggested that the area is generally unfavourable for economic concentrations of nickel-sulphides, with the possible exception of one locality at Hill of Old Merdrum where Ni:S ratios of around 1:1 were recorded; visible sulphide being present in serpentinized peridotite. Further investigation of this area may be warranted.

2. Bedrock Drilling (Figs. 1 & 2)

A short programme of bedrock drilling investigated a weak copper soil anomaly located by a previous geochemical survey. The hole SH14, drilled just east of Old Merdrum Farm, was entirely within semi-pelitic schists containing no mineralisation. The cause of the anomaly remains unresolved, but may in part be due to a combination of impeded drainage and black schist lithologies.

3. Soils Research Project

Statistical studies were undertaken on materials previously collected, data collated, and written up. (These results may be found in the final report submitted October 1973, which applies to most E.V.L. areas and time periods; including Boganclogh, 1973)

4. Enclosures

Fig. 1 Location Plan for Shallow Hole SH15
Fig. 2 Borehole SH15 - Drill Core Record

(See Fig. 1 West Insch Submission for Metal:Sulphur Ratio Data)

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

Geological Report : Bogancloough

A.F.I.O.
Institute of Geological
Sciences

26 JUN 1973

5 Princes Gate London, SW7 1QN

During the period 9th August to 31st December, 1971 geological, geochemical and geophysical investigations were undertaken.

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K.C.B.

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6.11.73

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

Anomaly No.	Ground Follow-up Traverses				REMARKS
	Geol.	E.M.	Mag.	Geochem.	
406A	✓	3	3	2	May be a deer fence, but offset.
406B	✓	3	3	2	No obvious artificial cause.
416C	✓	3	3	2	G.E.M. response poor. No artificial conductors in vicinity. Shallow ditch nearby.
414B	✓	3	—	—	Strip film unusable. No obvious source on ground. G.E.M. response correlates well.
420B	✓	3	3	2	No artificial conductor in vicinity 1050Ft west of peg another good G.E.M. anomaly.

BOGANCLOUGH DISTRICT - AEM10

Geological Report - 1 January to 31 December 1972

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FINANCIAL ASSISTANCE FOR MINERAL EXPLORATION**COMPANY:** Exploration Ventures Limited**PROJECT:** Bogancloch (AE 10)**Material moved to open file No: MRD 144/5/5 from MRD 84/5/5**

- Extract from application 6.8.71. "Outline of proposed project ... geological considerations ... work programme ..." with accompanying plan , 4 miles : 1 inch.
- Geological Report 9.8.71 to 31.12.71 with enclosures 1 to 5.
 - Fig 1 Geological float and out crop map. Aberdeenshire XXXIII NE,SE,SW.
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Tables 16A and 16C, CU, Ni, S determination.
- Technical report for 1.1.73 to 31.12.73 with the following enclosures:
 - Fig 1 Location plan for shallow hole SH15.
 - Fig 2 Borehole SH15 - Drill core record.

(Figs 13-16 Ruthven and Fig 1. West Insch. also refer)
- IGS report by W.G. Henderson 18.4.74 with 2 accompanying diagrams, 1-showing relationship of traverses 2 and 3 to the primary traverse. 2-showing layout of the traverses to investigate anomalies 454C and 455C.

All these are in EVL records not merged

Fig 3 - Ground magnetic contour plan . 6" : 1 mile. OS sheet NJ91. 1972 (+ negative).

Fig 4 - Zone of anomalous chargeability (IP) and areas with significant mineralised float. 1 : 10,560.

Fig 5a - Diamond drill targets at Kingseat. 1 : 5000. NJ91NW. 2.2.72.

Fig 5b - Diamond drill targets at Ardo and Parkseak. 1 : 5000, 22.2.72. NJ91NW, NJ92SW.

Fig 5c - Diamond drill targets around Potterton. 1 : 5000, NJ91NW, 2.2.72.

Fig 6 - Location of all boreholes drilled up to January 1972. 6" : 1 mile. 28.3.72.

Appendix 3 Fig 10 - "Detailed magnetic survey results around Belhelvie Lodge". 1 : 5000, NJ91NW. February 1972.

Appendix 4 "Detailed 3 electrode expanding IP surveys" consisting of figures 1 to 9. NJ91NW.

Potterton area:

Fig 1 location ... of traverse. 6" : 1 mile.

Fig 2 chargeability and resistivity profiles.

Fig 3 chargeability curves.

Potterton Burn area:

Fig 4 location ... of traverse. 6" : 1 mile.

Fig 5 chargeability and resistivity profiles. 1 : 5000.

Fig 6 chargeability curves and magnetic profiles.

Muirton area:

Fig 7 location ... of traverse. 6" : 1 mile.

Fig 8 chargeability and resistivity profiles.

Fig 9 chargeability curves and magnetic profile.

Appendix 5 Drill sections written and graphic logs for DDH. Nos B3 to B12.

Appendix 6 "Results of follow-up geochemical work ..." consisting of figs 11 and 12.

Fig 11 - copper, lead and zinc anomalies. Cairn-Mon-Earn. 1" : 1 mile.

Fig 12 - stream molybdenum values, 1" : 1 mile.



(1)

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Consolidated Gold Fields Limited

49 MOORGATE LONDON EC2R 6BQ

TELEPHONE 01-606 1020

TELEGRAMS GIOVANO LONDON TELEX

TELEX NO 683071

CABLES GIOVANO LONDON EC2

GFW/RMS

28th February 1975

Mr. G.R. Chapman,
Institute of Geological Sciences,
Exhibition Road,
London, SW7 2DE

Dear Mr. Chapman,

Financial Assistance for Mineral Exploration Exploration Ventures Limited

I enclose the required Cu analyses referred to in your letter of 13th February, 1975:

		<u>% Cu</u>	<u>% S</u>
FS	2	-	0.032
	3	-	0.055
	36	-	0.27
	67	-	0.005
	68	-	0.020

On the point of the disparity between the two sets of % Ni-in-sulphide values: those for South Deeside listed in Table 16A were arrived at through a computer study using a system of 3 successive approximations, whilst those shown in Fig. 7 (S. Deeside 1973) were devised by simple calculation assuming 37.5% total sulphur in combined sulphides. The total values for Ni and S in the samples you refer to are as follows:

		<u>% Ni</u>	<u>% S</u>
FS	66	.22	.07
	69	.18	.13
	70	.009	.37

As/

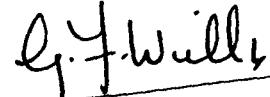
As regards the H.E.M. ground follow-up in the Alford area:-

Anomaly 385A - traverse 3 should read 172°
Magnetic, N - S.

Anomaly 387F - there are two sets of two traverses over the same anomaly. The first was conducted with an SE600 Scintrex instrument (which gave trouble), while the second set represents a re-survey with an ABEM gun.

Again, if you should require further clarification of particular points, please feel free to contact me again.

Yours sincerely,



G.F. Wilks
Senior Geologist

(See also accompanying table 16c. R. Chapman. 11/3/75)

Copper-Nickel-Sulphur Determinations

on West-side Flot & Cut-off Samples

TABLE 16A

SAMPLE NO.	ROCK TYPE	% Cu.	% Ni.	% S	% Cu. IN SULPHIDES	% Ni IN SULPHIDES	REMARKS
FS 11	SPERLITE-NITE	0.001	0.20	0.02	0.37	23.90	Macnoch
FS 12		<0.001	0.20	0.09	0.31	63.22	
FS 17		0.001	0.18	0.04	0.54	97.19	
FS 20		0.005	0.19	0.42	0.43	10.44	
FS 25		0.001	0.21	0.05	0.45	93.54	
FS 30		0.014	0.10	0.09	5.03	25.92	
FS 41		<0.001	0.32	0.05	0.44	96.02	
FS 42		<0.001	0.25	0.03	0.39	88.75	
FS 43		<0.001	0.22	0.06	0.39	86.44	
FS 44		<0.001	0.20	0.12	0.25	50.30	
FS 45		<0.001	0.25	0.14	0.21	53.02	
FS 46		<0.001	0.28	0.06	0.38	99.18	
FS 47		0.001	0.21	0.07	0.35	26.29	
FS 48		<0.001	0.22	0.04	0.49	107.93	
FS 49		<0.001	0.22	0.05	0.44	96.02	
FS 50		0.001	0.21	0.24	0.14	29.71	
FS 51		<0.001	0.21	0.04	0.50	105.47	
FS 52		0.001	0.21	0.09	0.35	42.20	
FS 54		0.007	0.007	0.24	1.14	1.14	
FS 55		<0.001	0.19	0.05	0.46	86.26	
FS 59		<0.001	0.20	0.03	0.59	113.29	
FS 62		0.018	0.052	0.05	29.42	31.67	Craigs of Succoth
FS 63		0.003	0.024	0.04	1.41	112.41	
FS 66		0.002	0.22	0.07	0.71	78.53	
FS 69		0.001	0.18	0.13	0.24	43.51	Tulchan
FS 5	GABBROS	0.14	0.18	1.02	3.31	4.25	
FS 7		0.003	0.005	0.03	3.79	6.31	
FS 8		0.024	0.001	0.33	0.41	0.10	
FS 9		0.002	0.001	0.03	0.93	0.49	
FS 13		0.002	0.003	0.31	0.23	0.33	
FS 14		0.003	0.002	0.26	0.45	0.30	
FS 15		0.12	0.024	0.34	4.89	3.42	
FS 16		0.089	0.084	3.01	1.16	1.09	
FS 18		0.12	0.11	2.91	1.61	1.47	
FS 19		0.033	0.032	1.31	0.99	0.96	
FS 22		0.030	0.031	1.35	0.57	0.90	
FS 23		0.025	0.004	1.34	0.73	0.12	
FS 26		0.019	0.009	2.04	0.54	0.89	
FS 32		0.026	0.050	2.08	0.68	0.94	
FS 35		0.007	0.011	0.23	1.18	1.86	
FS 36		0.006	0.10	1.72	2.16	2.25	
FS 37		0.16	0.10	5.15	1.22	0.76	
FS 40		0.004	0.005	0.25	0.65	0.78	
FS 52		0.001	0.21	0.09	0.35	42.20	
FS 53		0.003	0.016	0.05	2.22	11.84	
FS 57		0.029	0.030	0.23	3.65	7.91	
FS 58		0.005	0.006	0.28	0.70	0.84	
FS 60		0.010	0.010	0.33	1.18	1.18	
FS 65		0.019	0.24	0.89	0.83	1.05	
FS 1	OLIVINE GABBRO	0.008	0.073	1.40	1.61	2.03	
FS 6		0.033	0.042	0.32	2.93	2.00	
FS 21		0.051	0.061	1.37	1.45	1.73	
FS 29		0.072	0.072	2.26	1.27	2.12	
FS 56		0.030	0.043	0.53	2.16	3.13	
FS 24	AMPHIBOLE-NITE	0.001	0.002	1.61	0.51	0.17	
FS 27		0.003	0.001	0.23	0.26	0.12	
FS 28		0.002	0.001	1.50	0.13	0.03	
FS 29		0.001	0.005	0.25	1.29	0.31	
FS 61		0.010	0.005	0.58	0.63	0.24	
FS 64		0.004	0.002	0.41	0.58	0.86	
FS 4	PIOMBO	0.073	0.17	1.20	2.52	5.41	
FS 51		0.043	0.15	0.73	4.11	14.35	
FS 53		0.055	0.20	0.62	3.93	11.90	
FS 59		0.005	0.21	0.37	4.16	17.45	
FS 63	MAGNETITE	0.000	0.003	0.03	24.21	3.63	
FS 70		0.002	0.001	0.32	0.74	0.95	
FS 64		0.000	0.005	2.04	0.10	0.10	
FS 70		0.000	0.005	0.42	0.56	0.47	
FS 53		PACIFIC VOLCANIC	"	0.016	0.010	11.64	

Sulphur:Metal Ratio Checks - Bogancloough, Craigs of Succoth

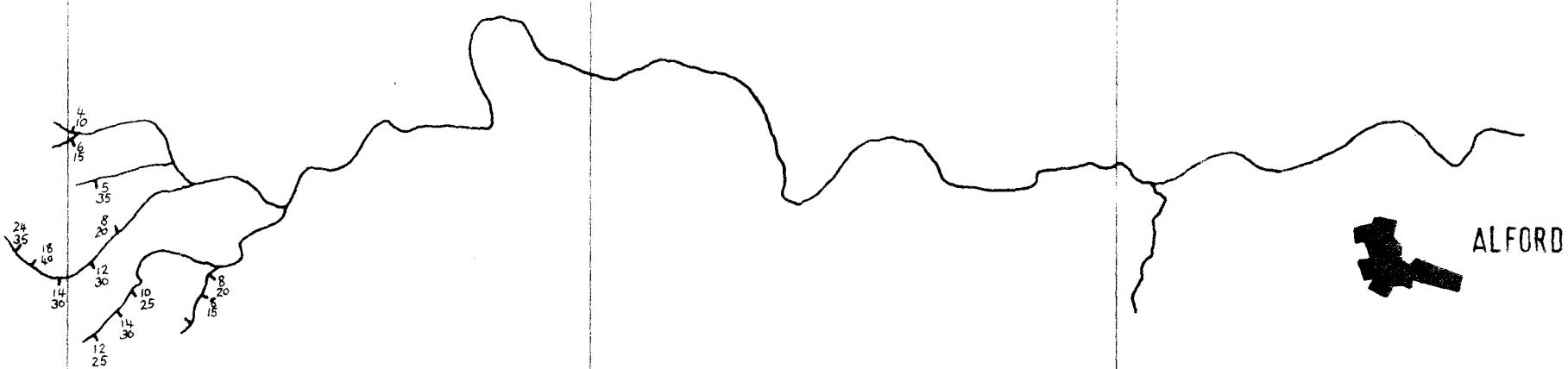
and Marnoch

TABLE 16 C

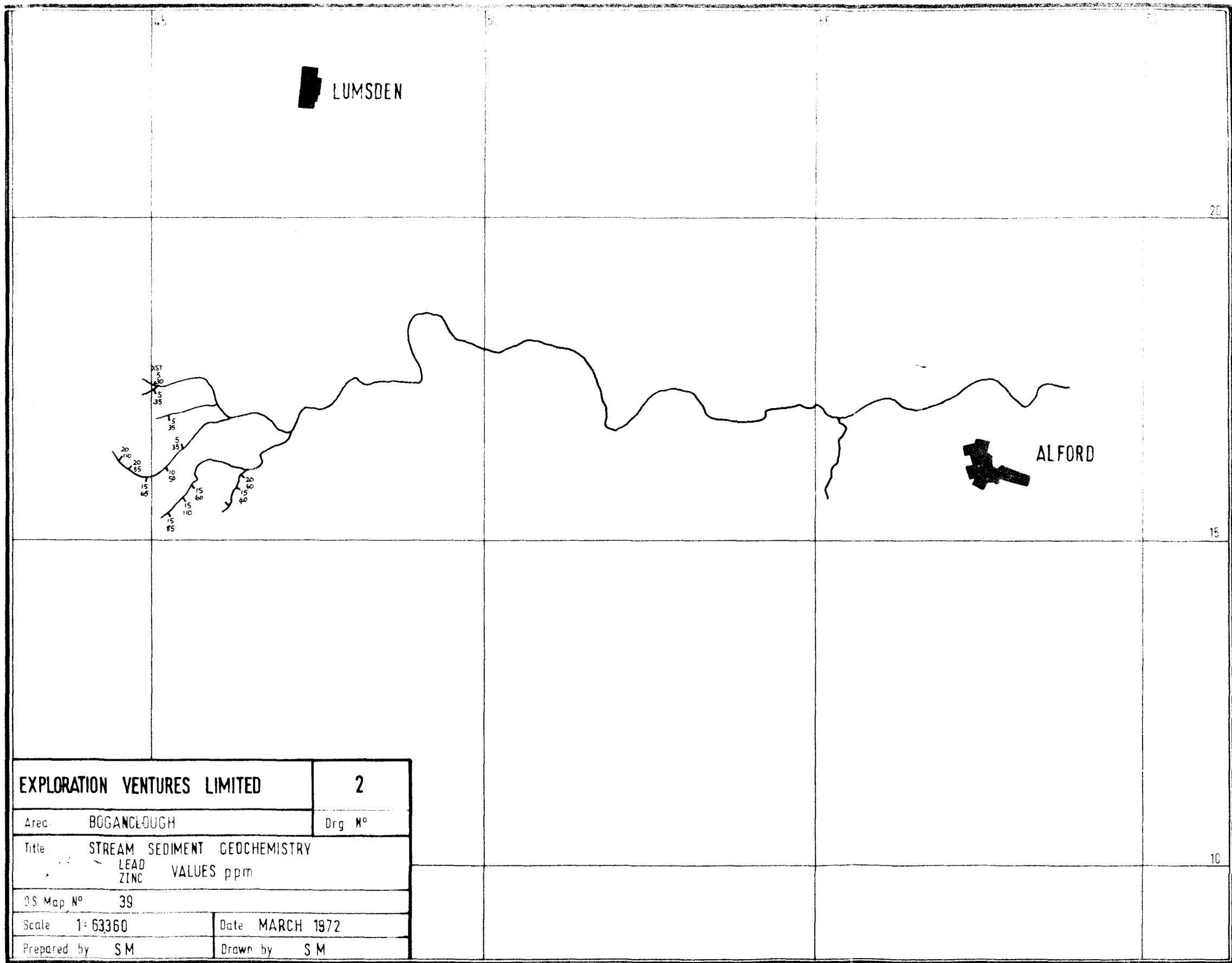
SAMPLE NO.	AREA	ROCK TYPE	% Cu	% Ni	% S	%Ni IN SULPHIDES	DIFFERENTIAL NI ANALYSIS		PREVIOUS SAMPLE REF. NO.
							% TOTAL NI	% SULPHIDE NI	
FS 71	Bogancloough: Old Merdrum	Serpentinized Peridotite	0.002	0.21	0.57	26.6	0.29	0.168	DR 43
FS 72	Bogancloough: 3 Burns Head	Serpentinite	0.001	0.26	0.06	146.6	0.35	0.0135	DR 44
FS 73	Bogancloough: 3 Burns Head	"	0.001	0.23	0.02	437.0	0.42	0.0169	DR 6
FS 74	Bogancloough: Newseat	"	0.0032	0.21	0.04	199.5	0.42	0.0067	DR 7
FS 75	Bogancloough: Scurdargue	"	0.0017	0.20	0.04	190.0	0.38	0.0097	DR 8
FS 76	Bogancloough: 3 Burns Howe	"	0.0003	0.20	0.03	253.0	0.40	0.0073	DR 11
FS 77	Bogancloough: 3 Burns Head	"	0.0012	0.21	0.01	78.0	0.42	0.0078	DR 12a
FS 78	Bogancloough: 3 Burns Head	"	0.0019	0.22	0.03	278.0	0.44	0.0125	DR 12b
FS 79	Graigs of Succoth	Serpentinized Ol Gabbro or Troctolite	0.0003	0.083	0.03	105.0	0.11	0.0017	CR 30/EE118
FS 80	"	Serpentinized Pyroxenite	0.0002	0.060	0.04	57.0	0.087	0.0022	CR 34/EE122
FS 81	"	"	0.0131	0.031	0.02	58.9	0.049	0.0082	CR 38/EE126
FS 82	"	Serpentinite	0.0040	0.26	0.02	494.0	0.38	0.0178	CR 41/EE129
FS 83	"	"	0.0004	0.22	0.03	278.0	0.31	0.0111	CR 45/EE131
FS 84	Marnoch: S. of Bellmans Wood	"	0.0144	0.11	0.11	38.0			AR 74
FS 85	"	"	0.0102	0.13	0.18	27.4			AR 75
FS 86	Marnoch: N. of Bellmans Wood	"	0.0028	0.11	0.037	112.9			AR 76
FS 87	"	Amphibolite	0.0056	0.004	0.027	5.6			AR 77

for
P.W.H. (C.R.F.)

LUMSDEN



EXPLORATION VENTURES LIMITED	1
Area	BOGANLOUGH
Brig No	
Title	STREAM - SEDIMENT GEOCHEMISTRY
COPPER NICKEL	VALUES ppm
Dr. No. N°	39
Date	MARCH 1972
Prepared by	SM
Reviewed by	SM



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

Anomaly No.	Ground Follow-up Traverses				REMARKS
	Geol.	E.M.	Mag.	Geochem.	
406A	✓	3	3	2	May be a deer fence, but offset.
406B	✓	3	3	2	No obvious artificial cause.
4160	✓	3	3	2	G.E.M. response poor. No artificial conductors in vicinity. Shallow ditch nearby.
414B	✓	3	—	—	Strip film unusable. No obvious source on ground. G.E.M. response correlates well.
420B	✓	3	3	2	No artificial conductor in vicinity 1050Ft west of peg another good G.E.M. anomaly.

x 2

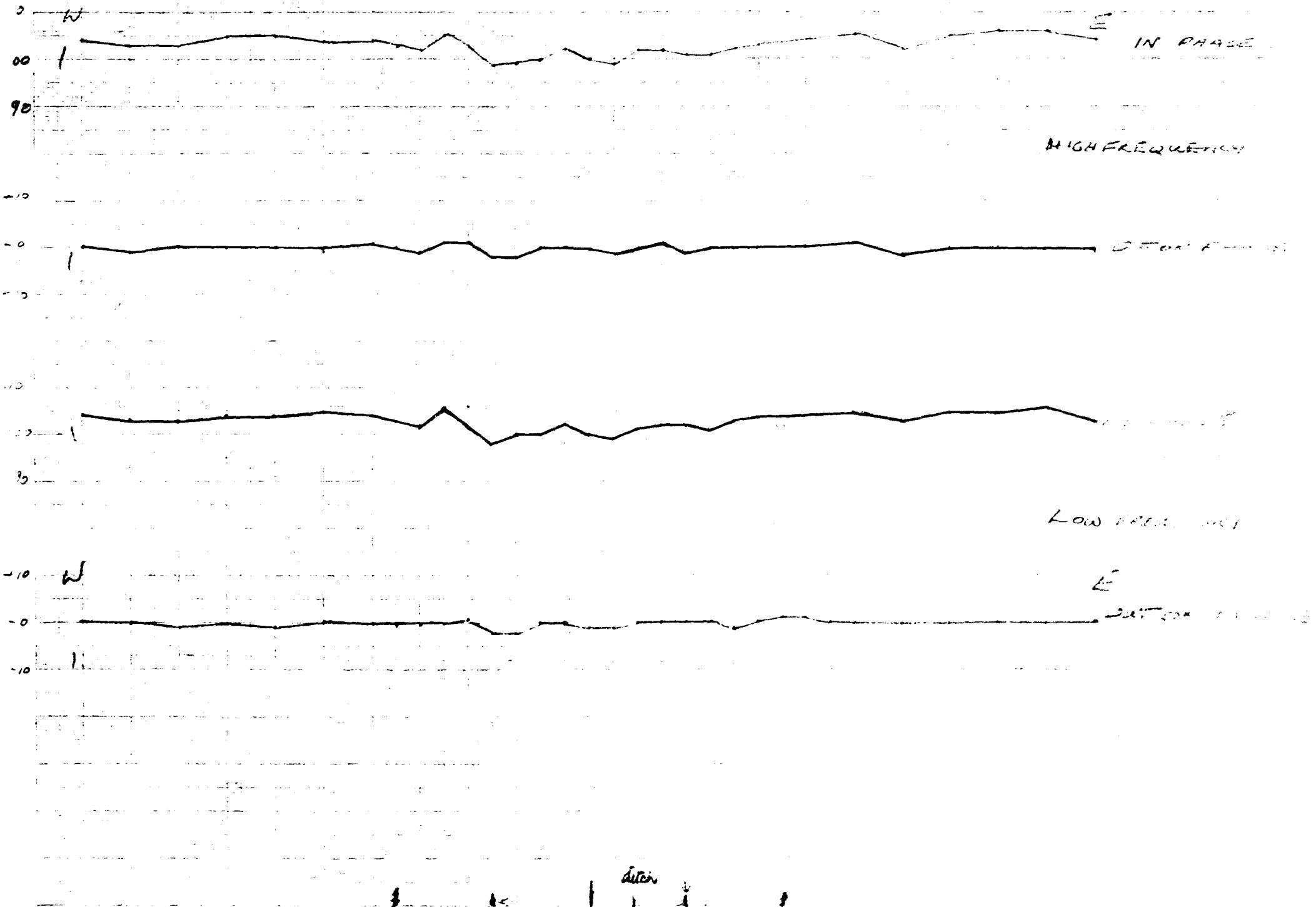
G.P.R. MAY 1973

Anomaly 416C

E.M. Gun 200 ft cable TRAVERSE I.

113/22

①
FIG 4



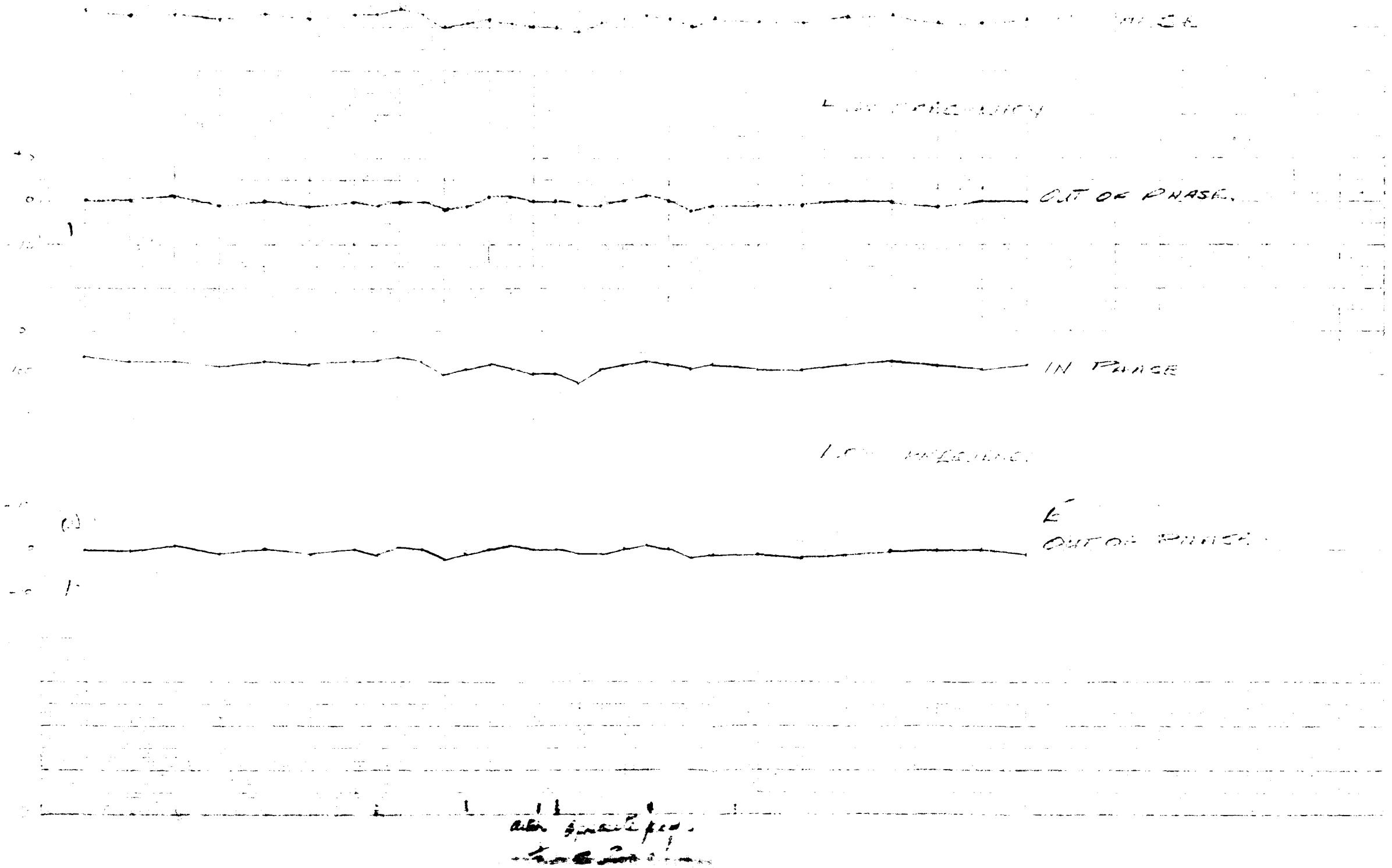
Anomaly 416c E.N.Gur, Zoot cable

TRAVERSE 2

6 · 2 · 72

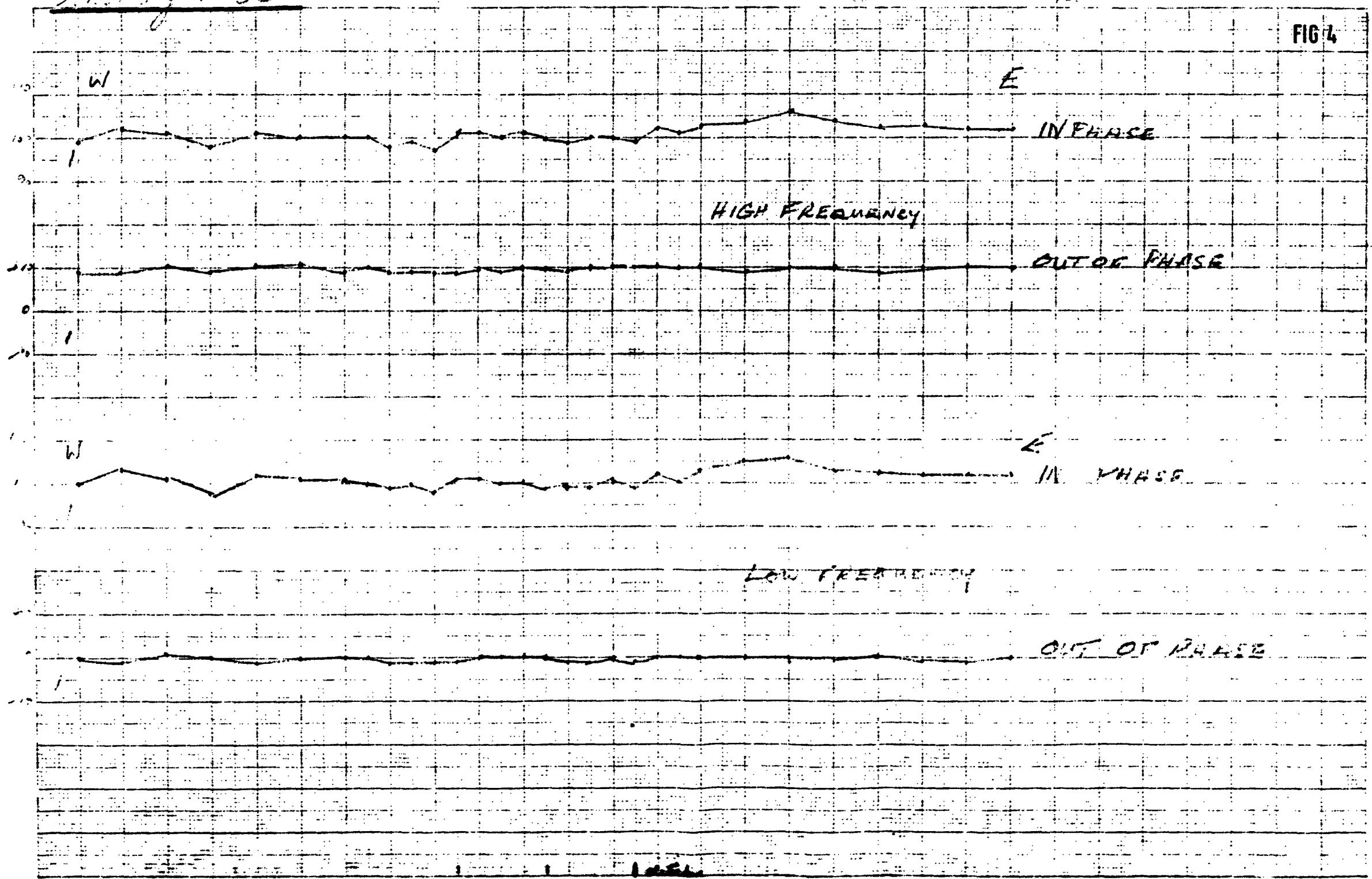
1

FIG 4



Aug 19, 1960 E.M. Test, 1000' from S. 6-12
R Mackie

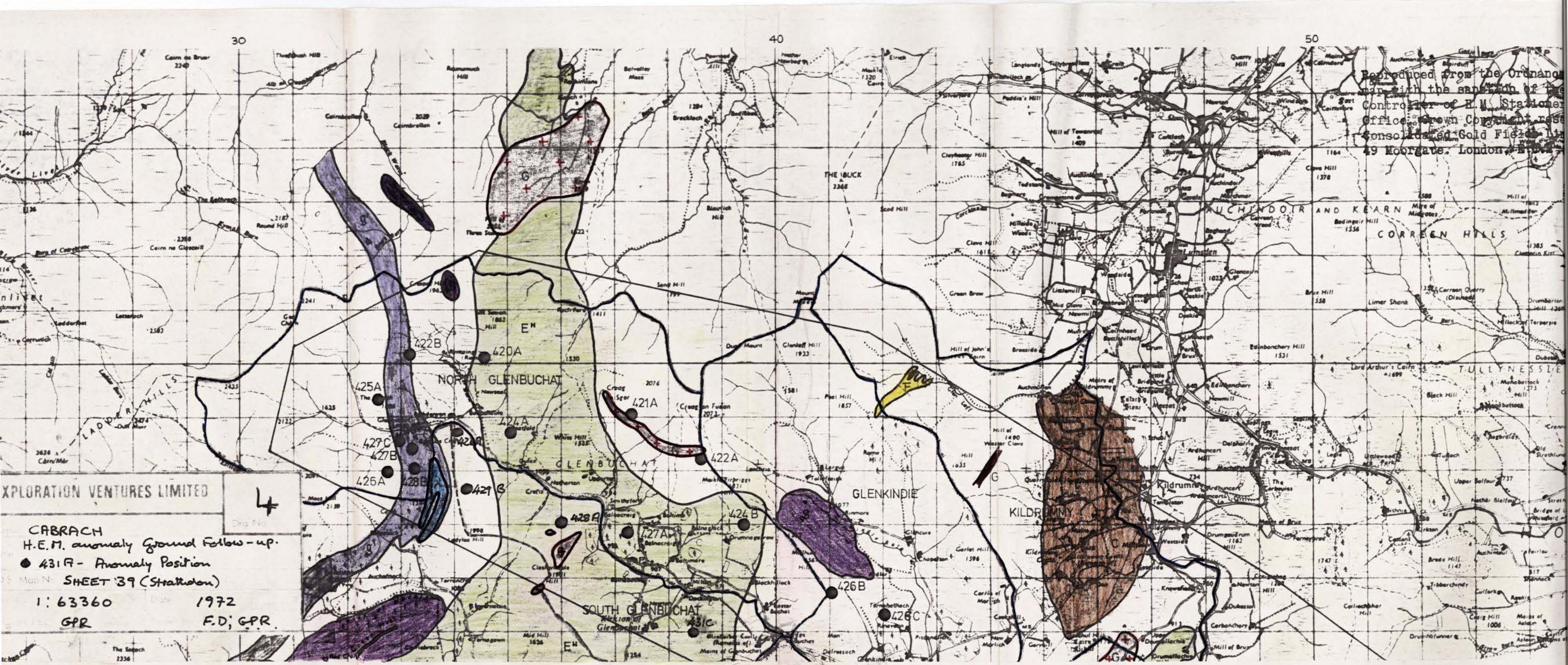
FIG 4

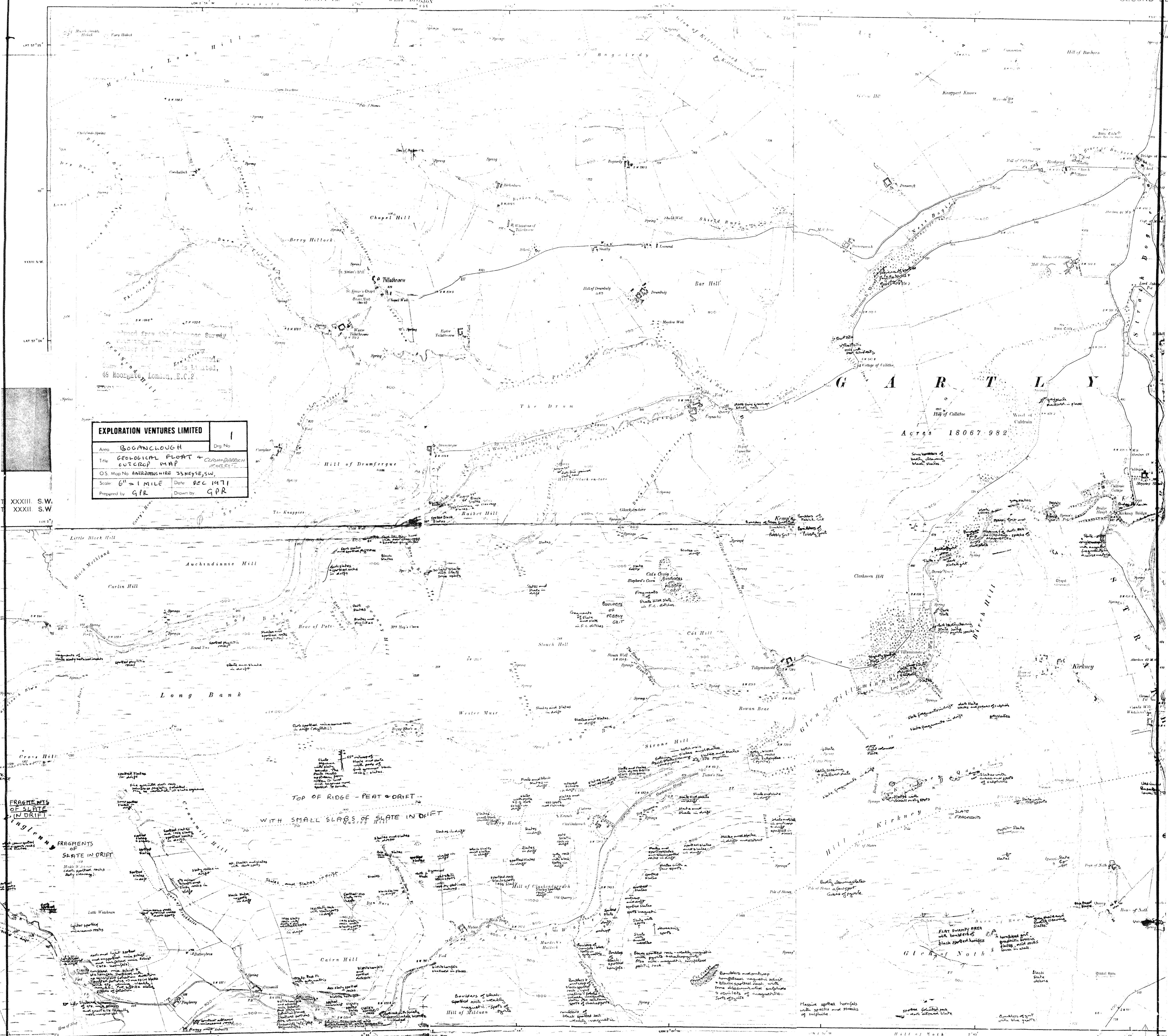


BOGAN CLOGH
FIG 2

Consolidated Gold Fields Limited
DIAMOND DRILL CORE RECORD

Project: E.V.L. - Bednek Dilling.





225

22

57 21
20 82
3.420.
(105.51-20.0.
39.)

Ni - Con'td -



EXPLORATION VENTURES LIMITED	2
Area: BOGAUNCLUGH	Dg No.
GEOCHEMICAL SOIL VALUES	
For: COPPER - NICKEL	
OS Map No: 1:500,000 SHEET 106 1:50,000 SHEET 106	
Scale: 6" to 1 MILE Date: DEC 1971	
Prepared by: S. P. D. Down by: S. M.	

2059W

58

57

56

55

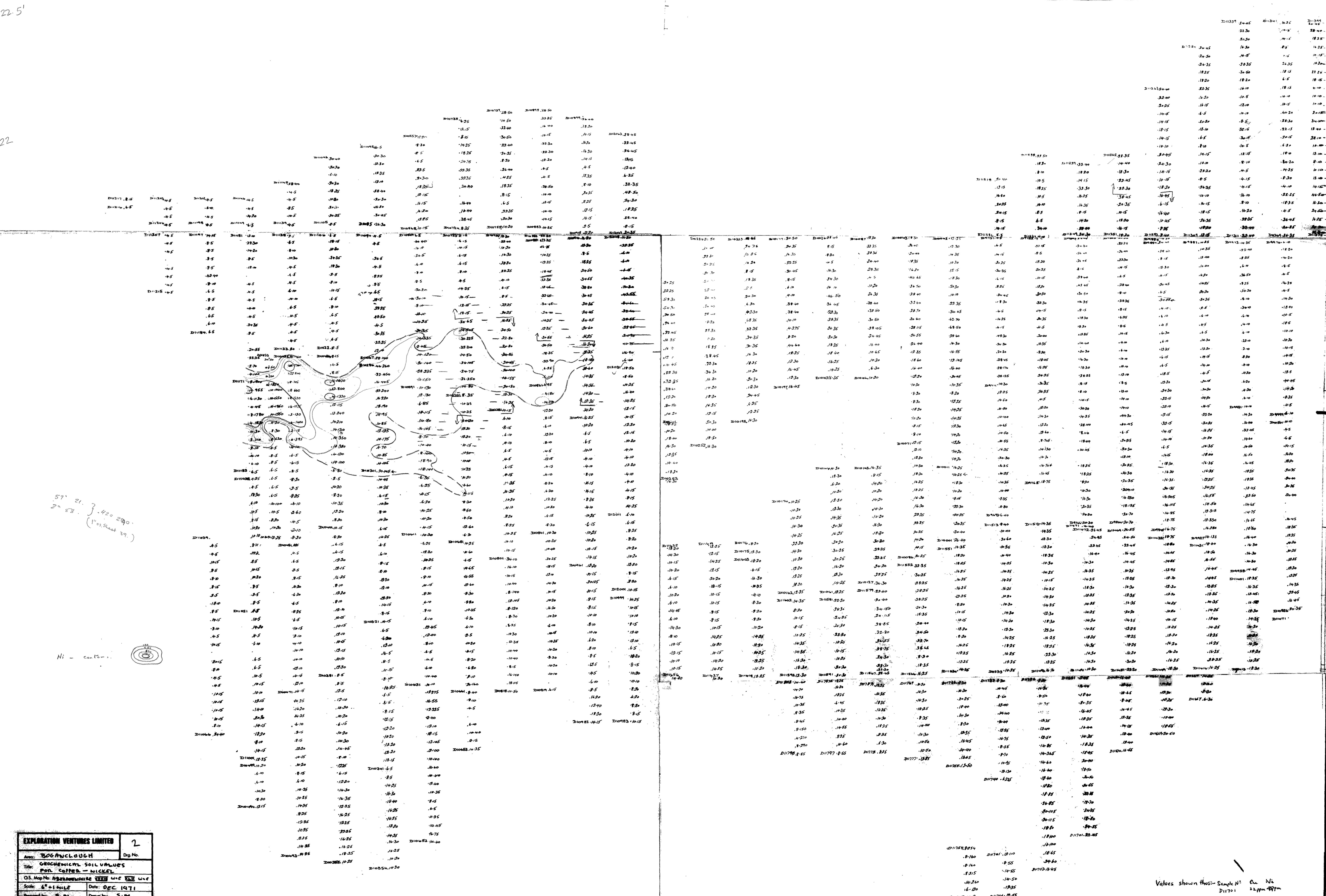
53

52

Values shown thus:- Sample No. Cu Ni
D11701 22.45 22.45 22.45

22.45 22.45 22.45

57191



445722

EXPLORATION VENTURES LIMITED	3
Name: TSO RUNCLOUGH	Drawn No:
Title: APPARENT CHARGEABILITY VALUES (MILLIGAAMS)	
Date: SEPT 1971	
Scale: 6 1/2 IN 1 MILE	
Prepared by: D H Q	Drawn by: D H Q

LAF 572



THE HUTCHINS LTD	Date No.
Area: GOA	Sheet No. 1
Title: GOA COASTAL SURVEY	Scale: 1:250,000
G.S. Map No. 1:250,000	Date: Sept 1971
Author: J. S. M. D.	Drawn by: D. H. A.
Prepared by: D. H. A.	



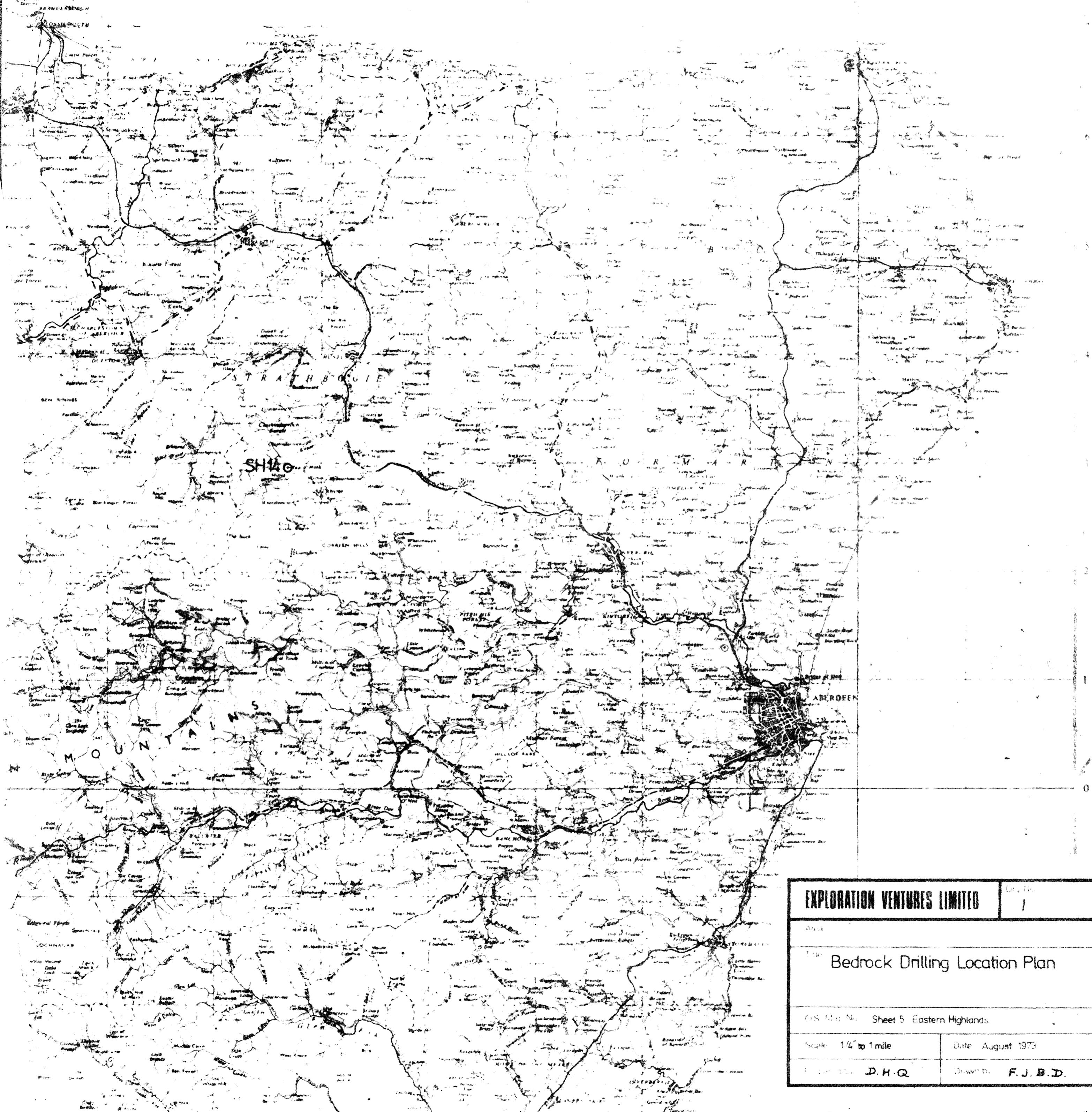
Fig 1

Location plan SH14

2

Fig 2.

Borehole SH14 Drill core record



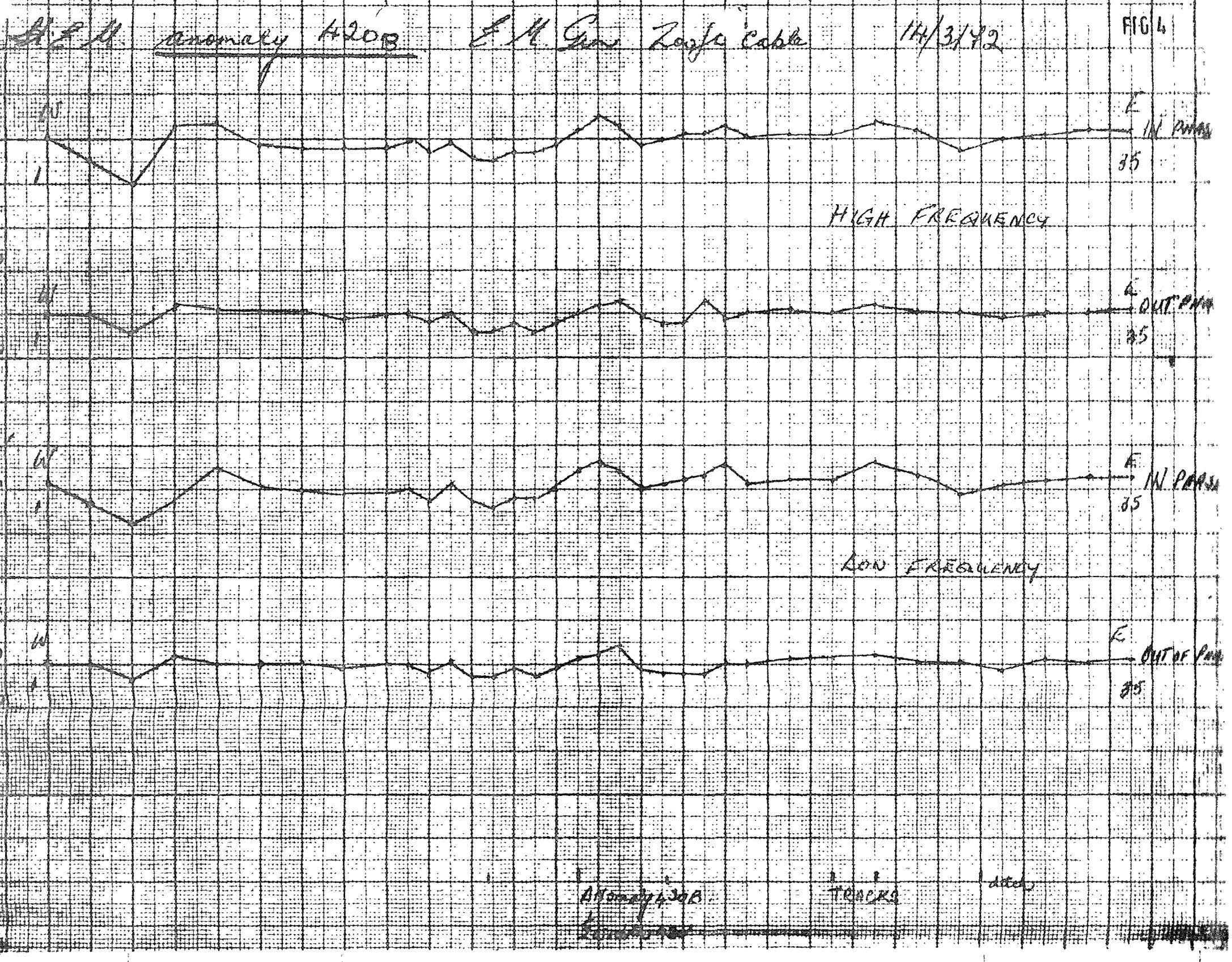
EXPLORATION VENTURES LIMITED

Area

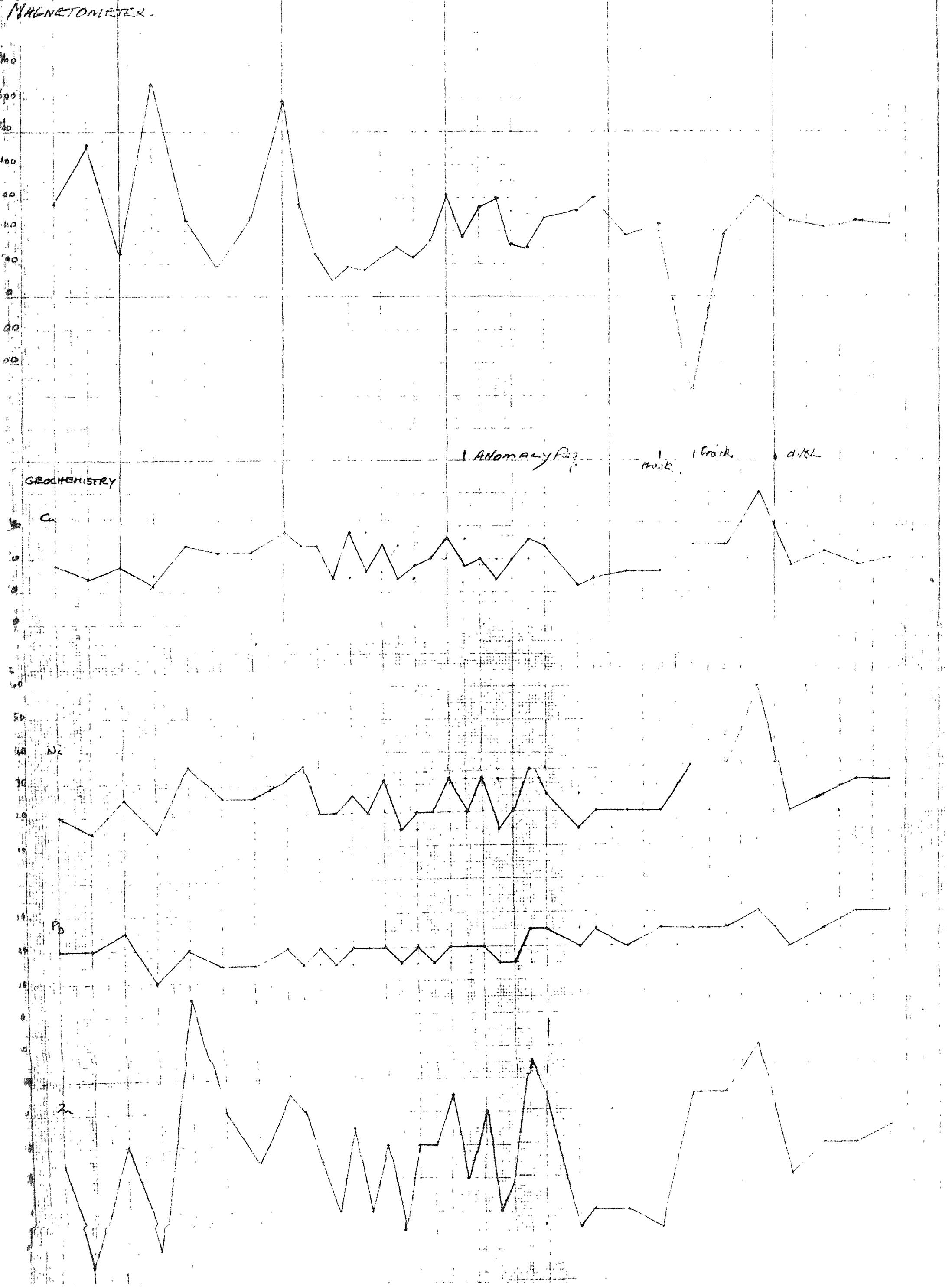
Bedrock Drilling Location Plan

O.S. Map No. Sheet 5 Eastern Highlands

Scale: 1:63,360 to 1 mile	Date: August 1973
Prepared by D.H.Q.	Drawn by F.J.B.D.

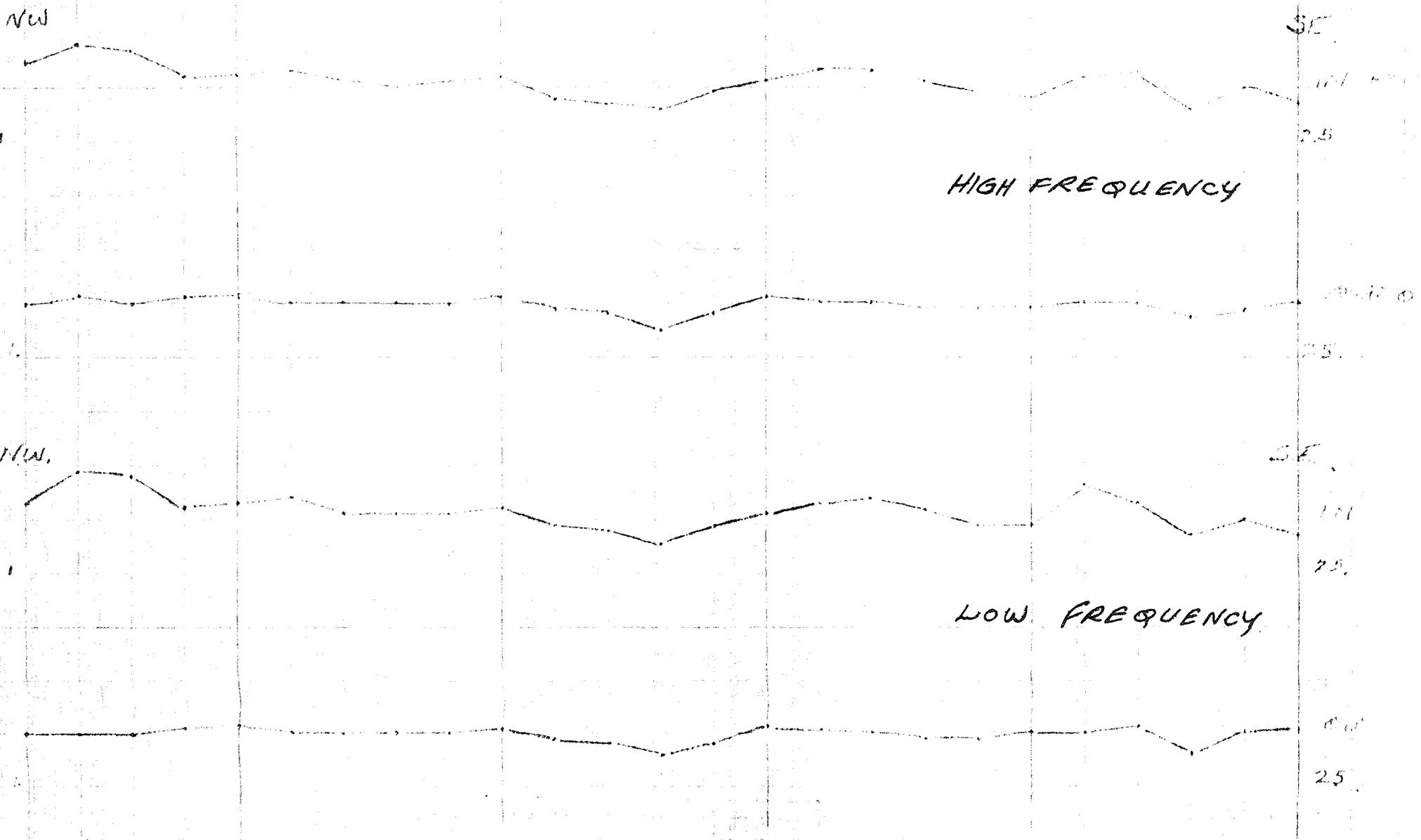


MAGNETOMETER.



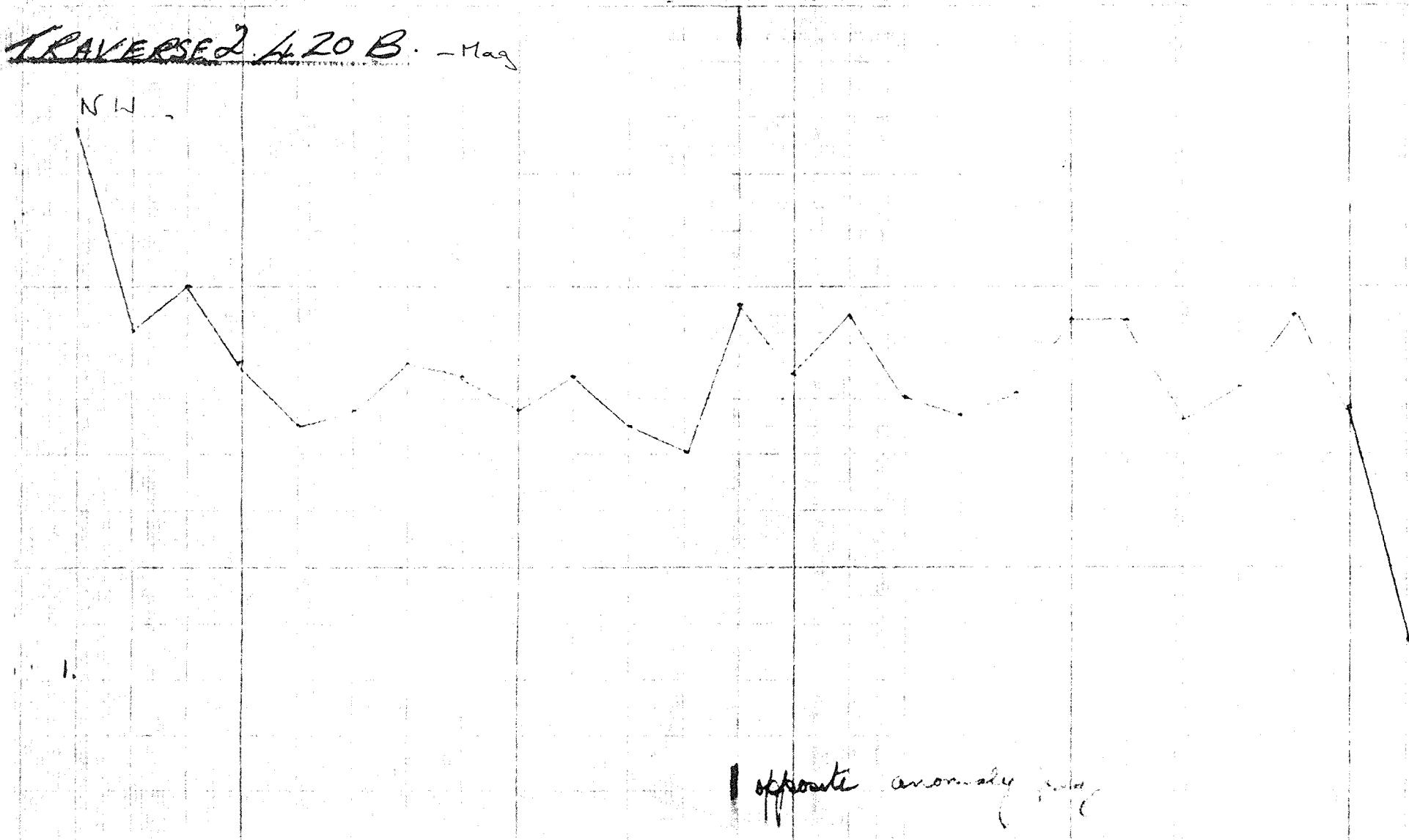
TRAVERSE 2 ANOMALY 420 B.

FIG 4



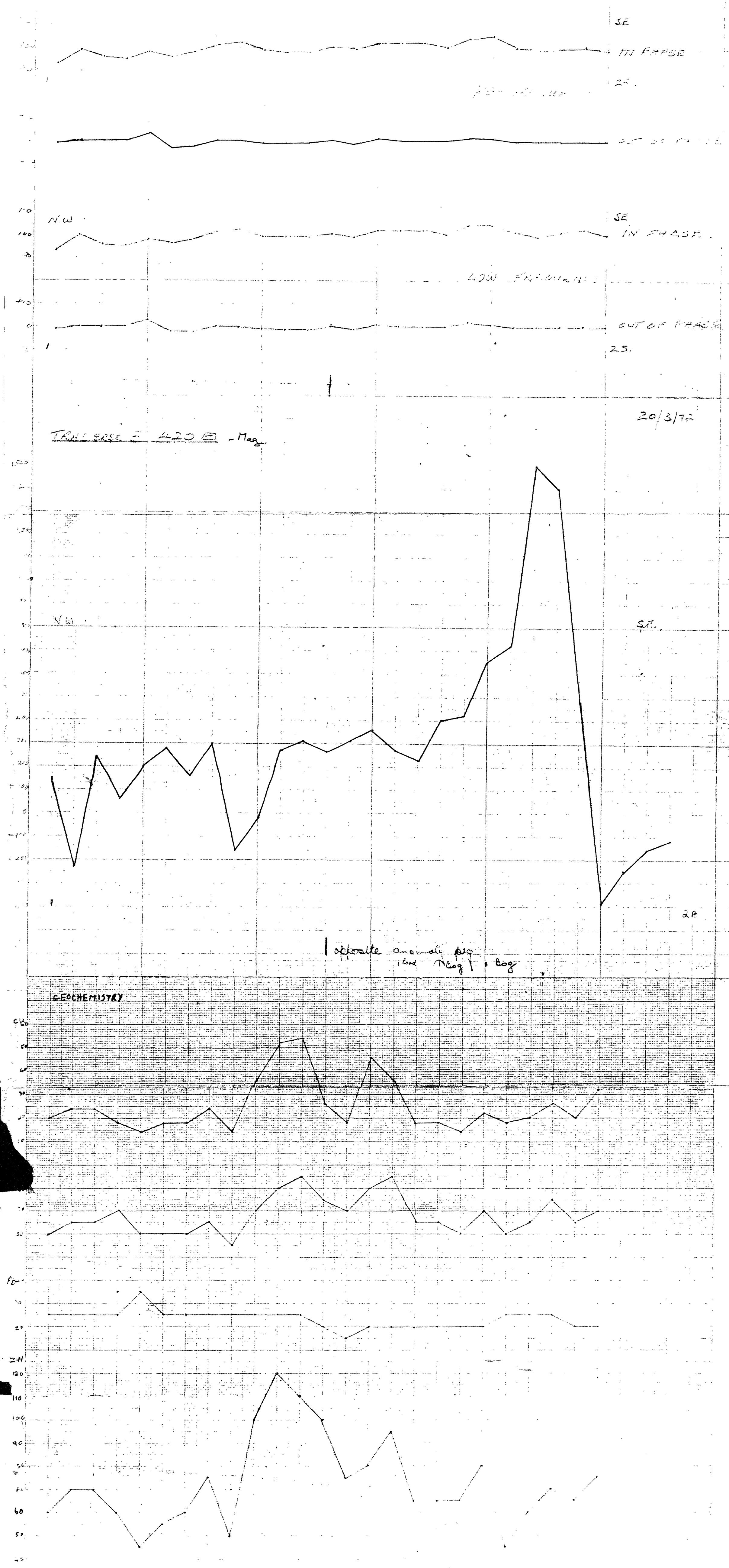
TRAVERSE 2 420 B. - Mag

10/31/85



TRAVERSE 3 ANOMALY 420B

FIG 4

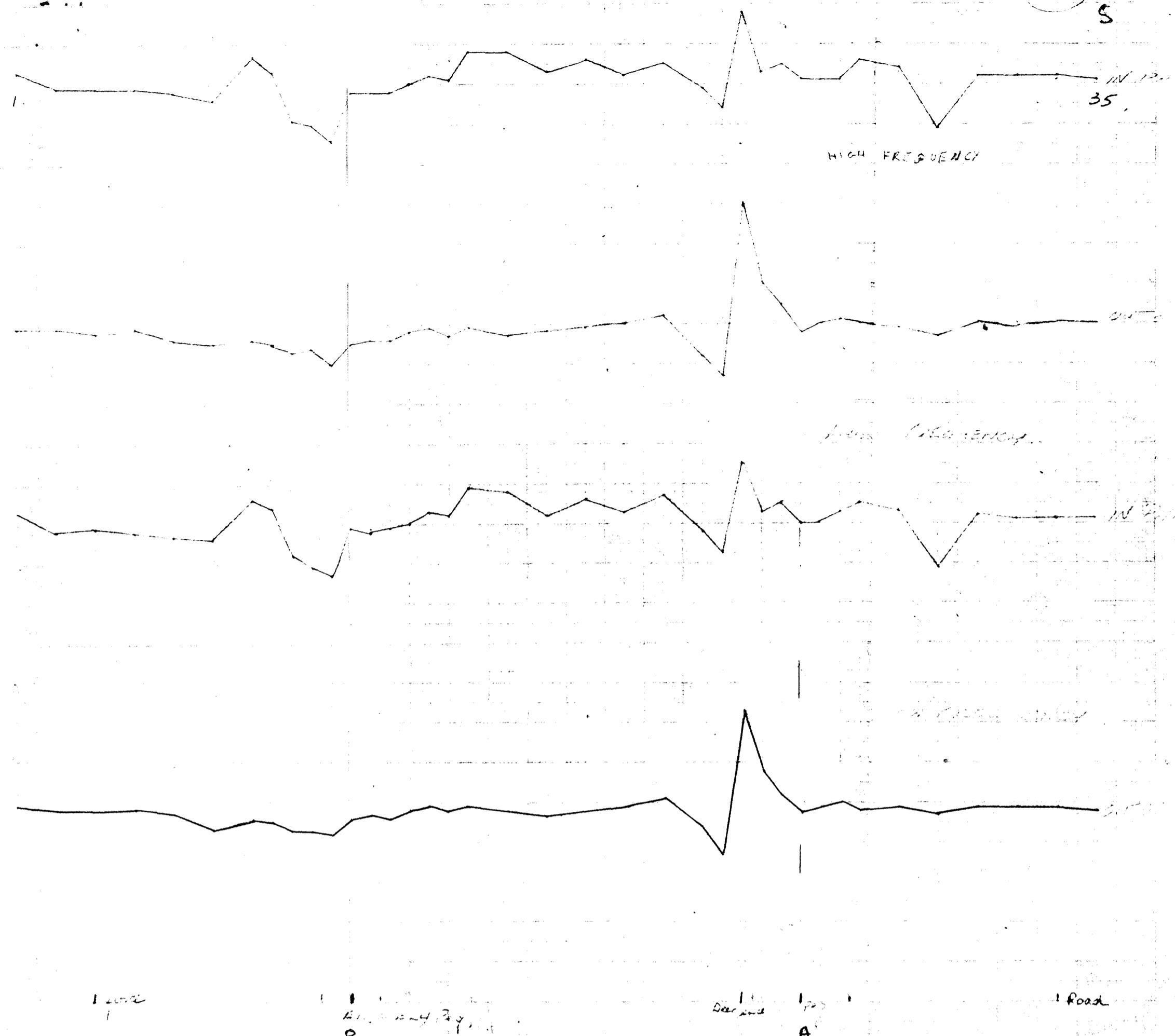


ANOMALY 406 A+B

EM SURVEY 2003 AREA

FIG. 4

S



Lake

Aug. 24, 37,

B

Barber Road

A'

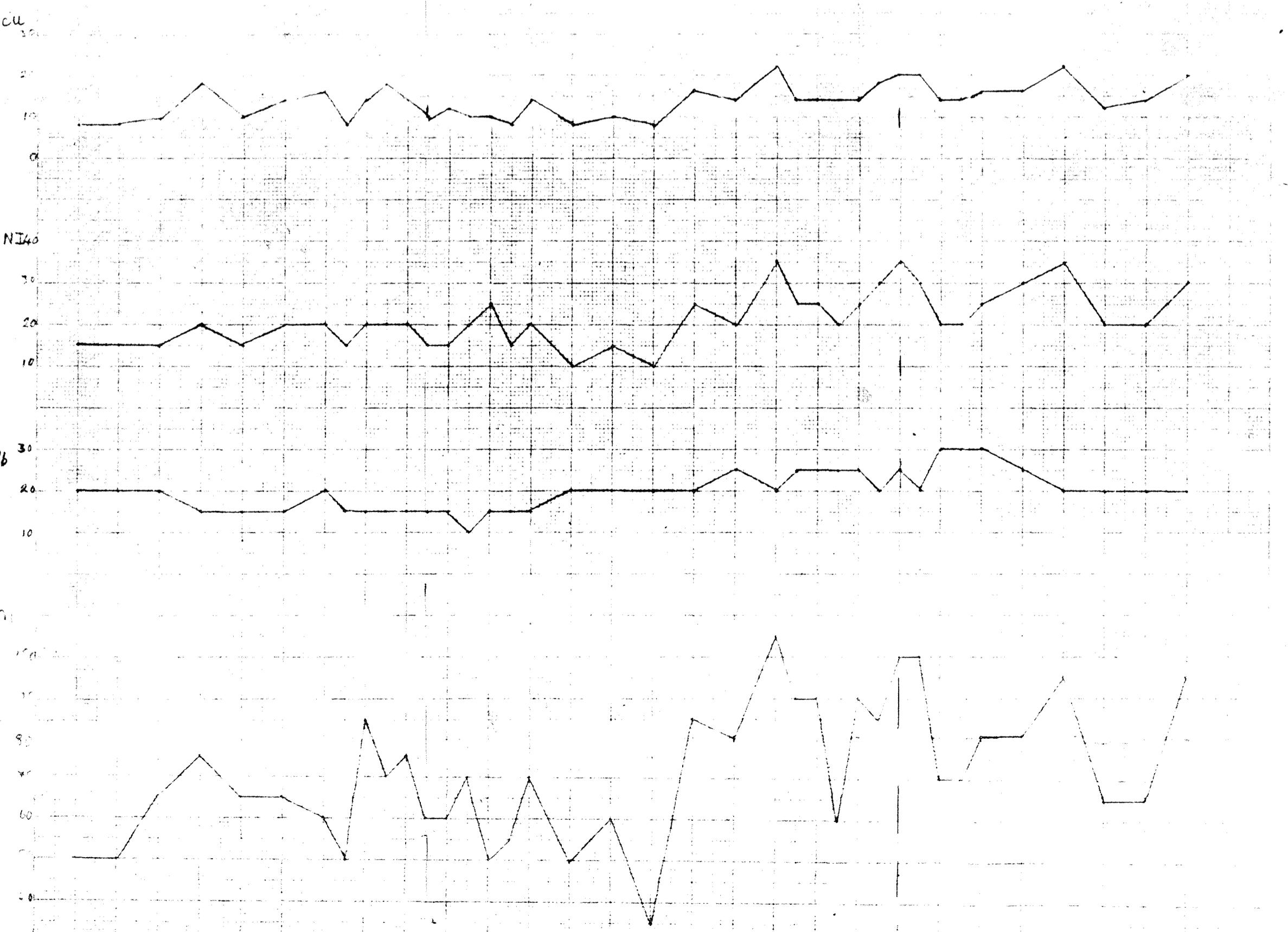
Road

MAGNETOMETER.

S.

38.

GEOCHEMISTRY



Zn

Ni

Pb

Cu

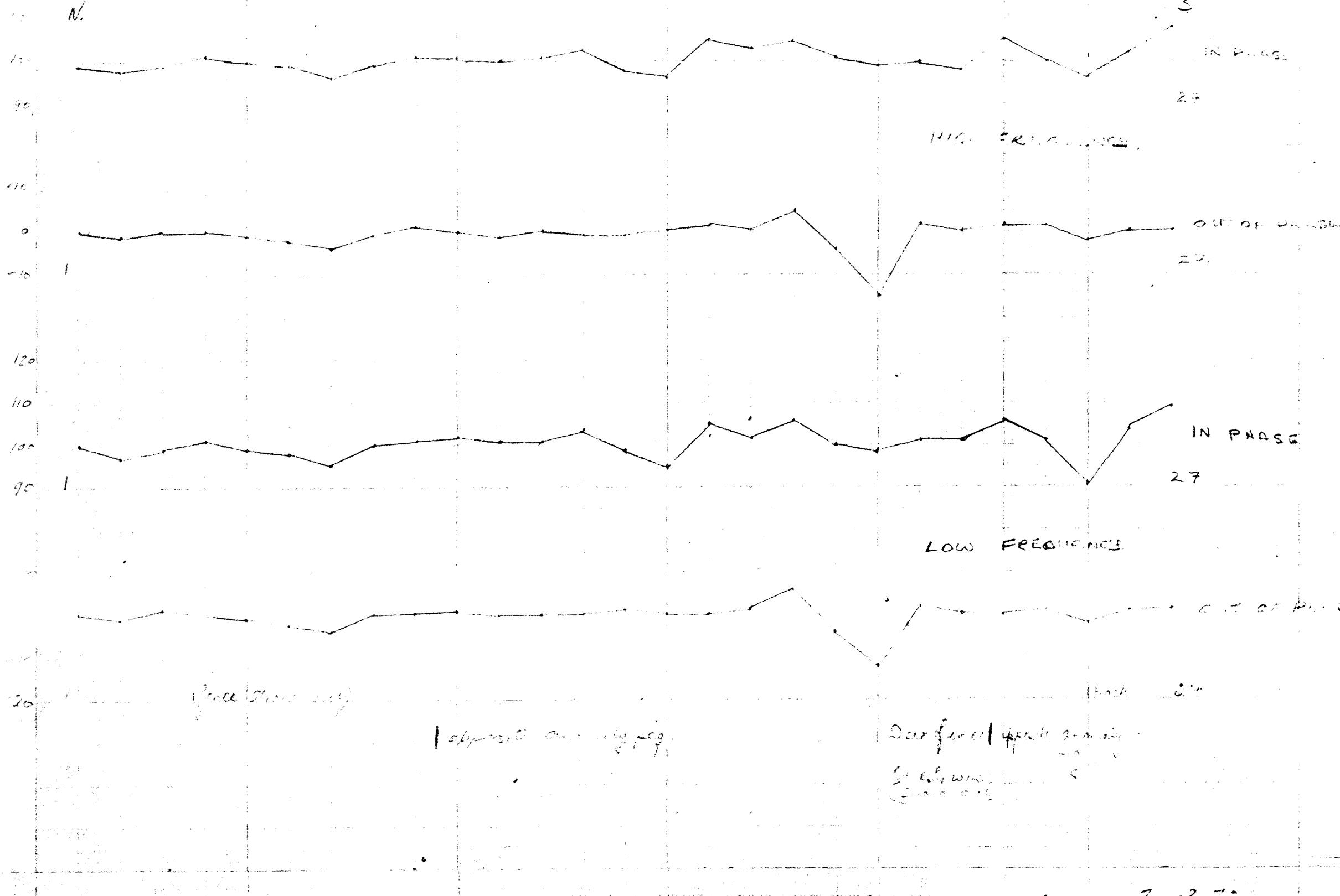
ANOMALY 406A & B. TRAVERSE 2

E.M. Goni

28/3/72

FIG 4

N.



TRAVERSE 2. 406A & B - Mag

20-3-72

N

S

Opposite end dyke

Basaltic lava one m thick

GEOCHEMISTRY

Cu 22

NI 40

Zn

Pb

Sn

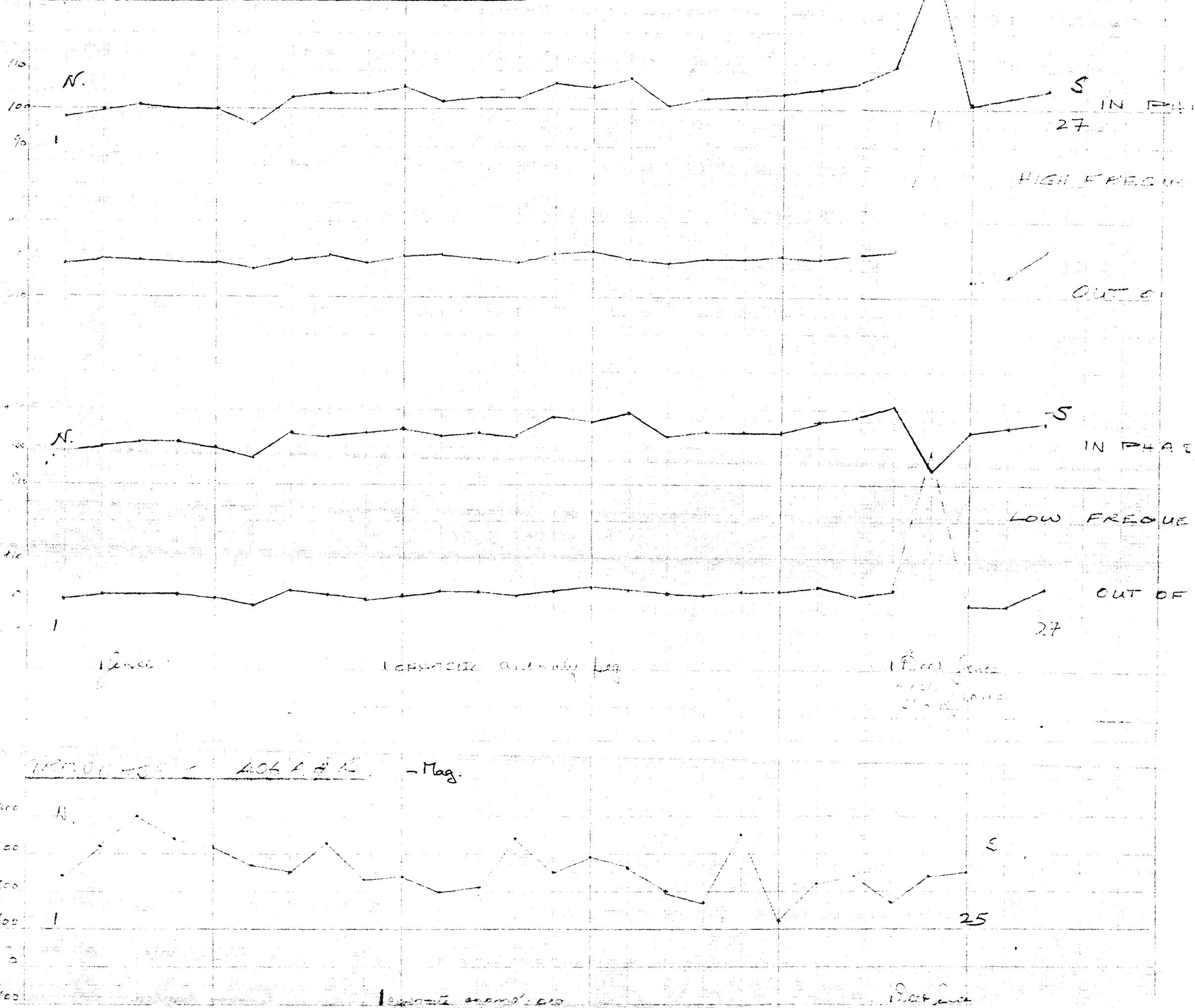
As

MORNING LOG & E. TRAVERSE.

Em G.

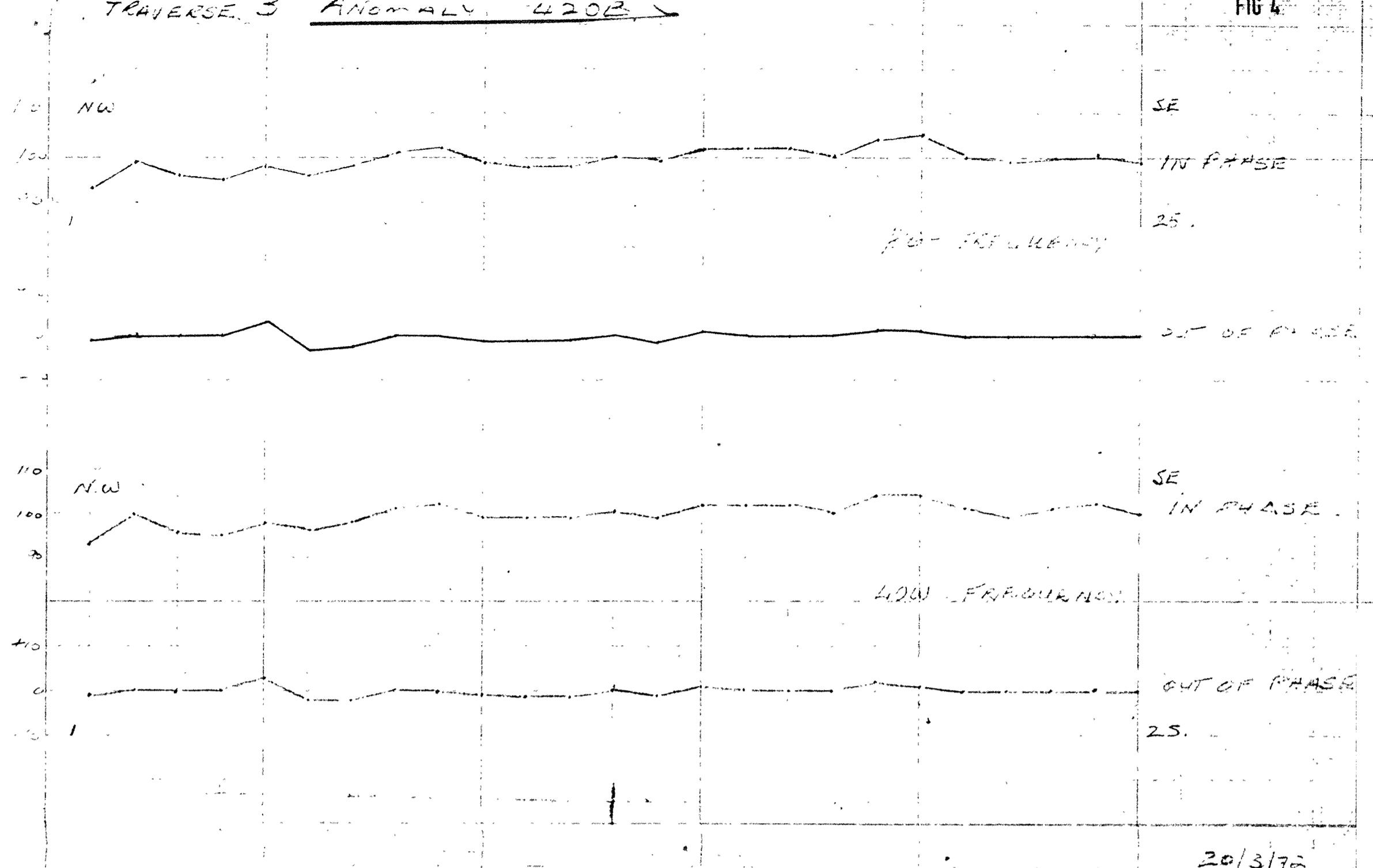
FIG 4

23



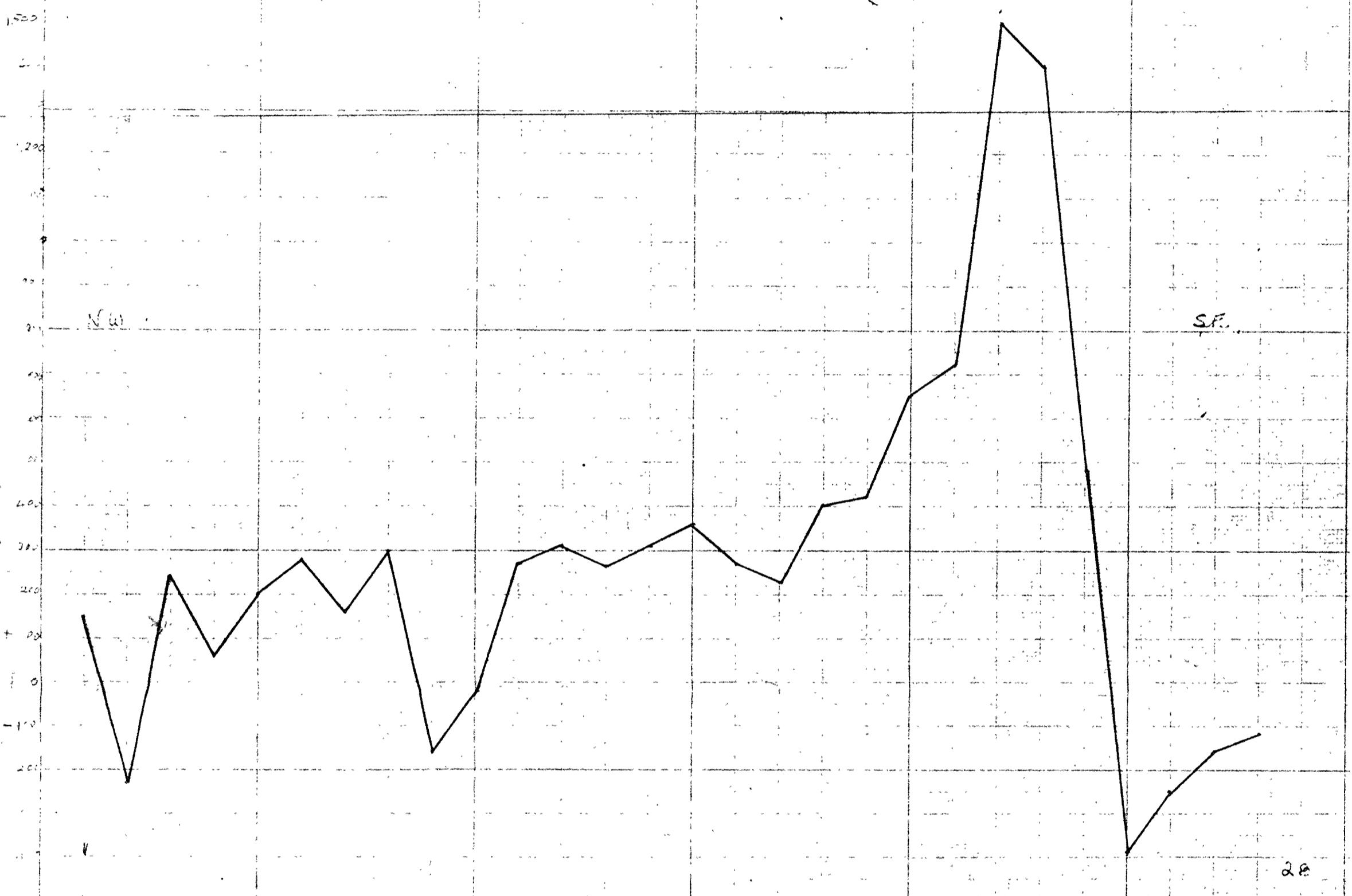
TRAVERSE 3 ANOMALY 4203.

FIG 4



TRAVERSE 3 4203 - Mag.

20/3/72



Opposite anomaly pic
1 bad N cog 1 Bog

28

GEOCHEMISTRY

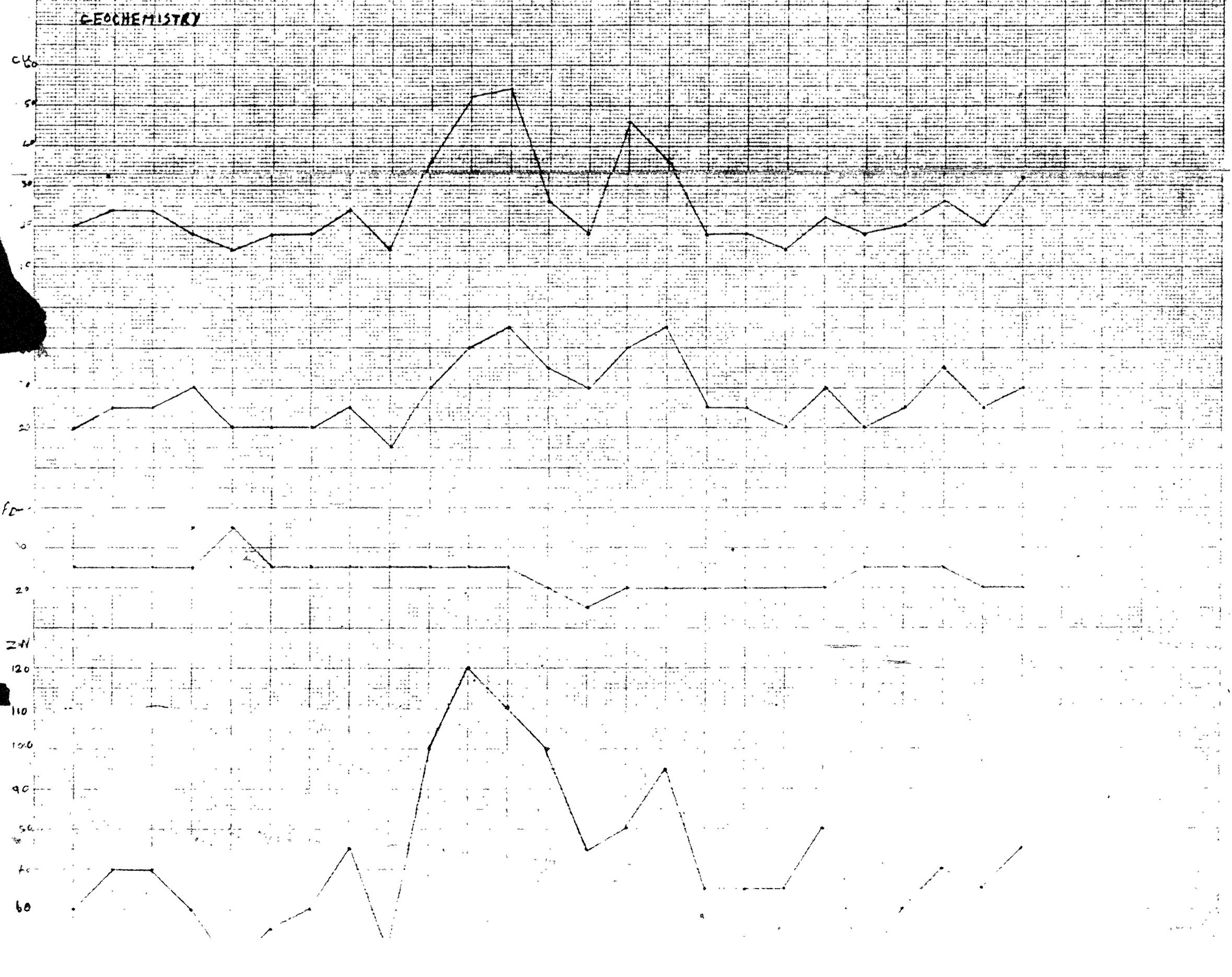
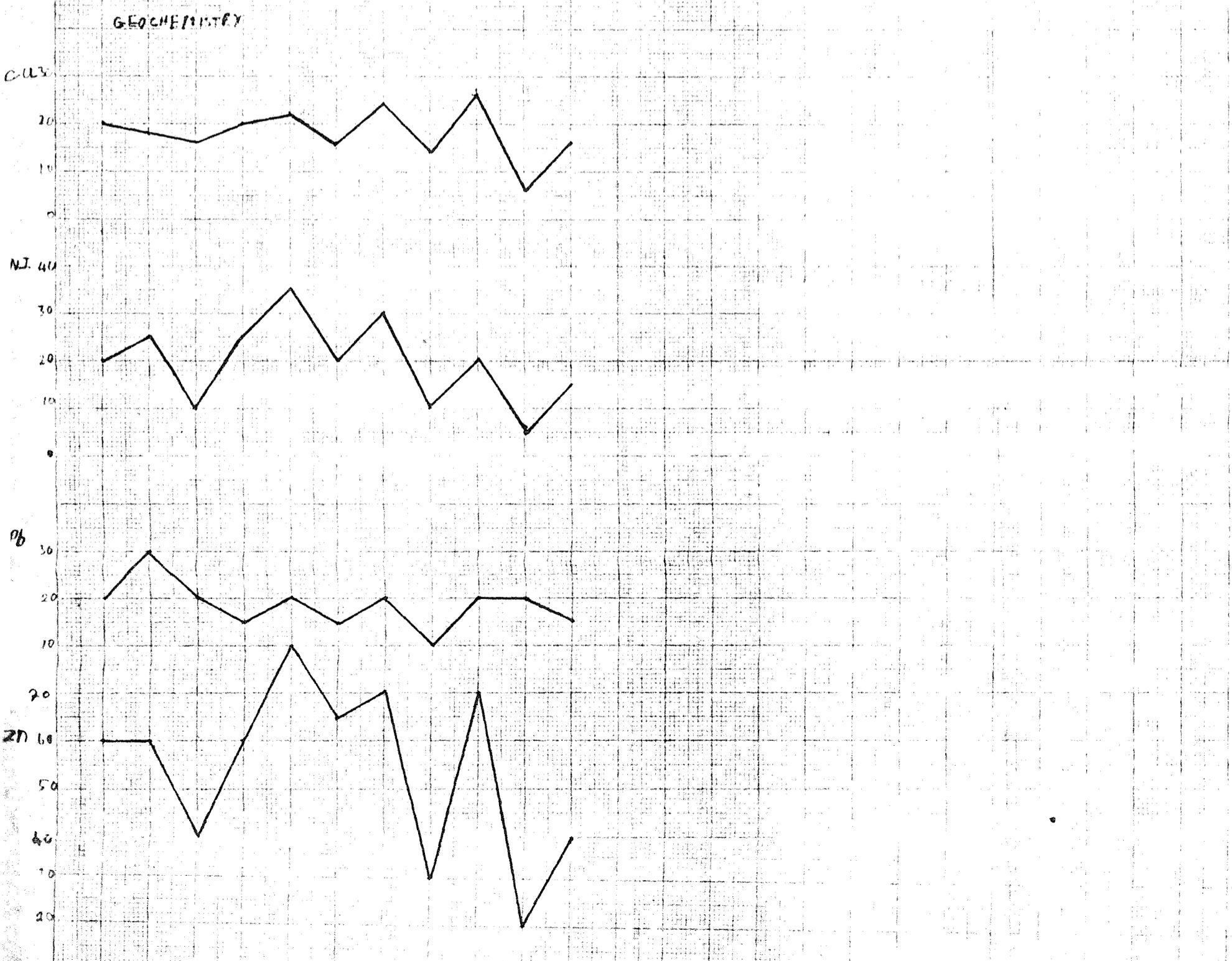
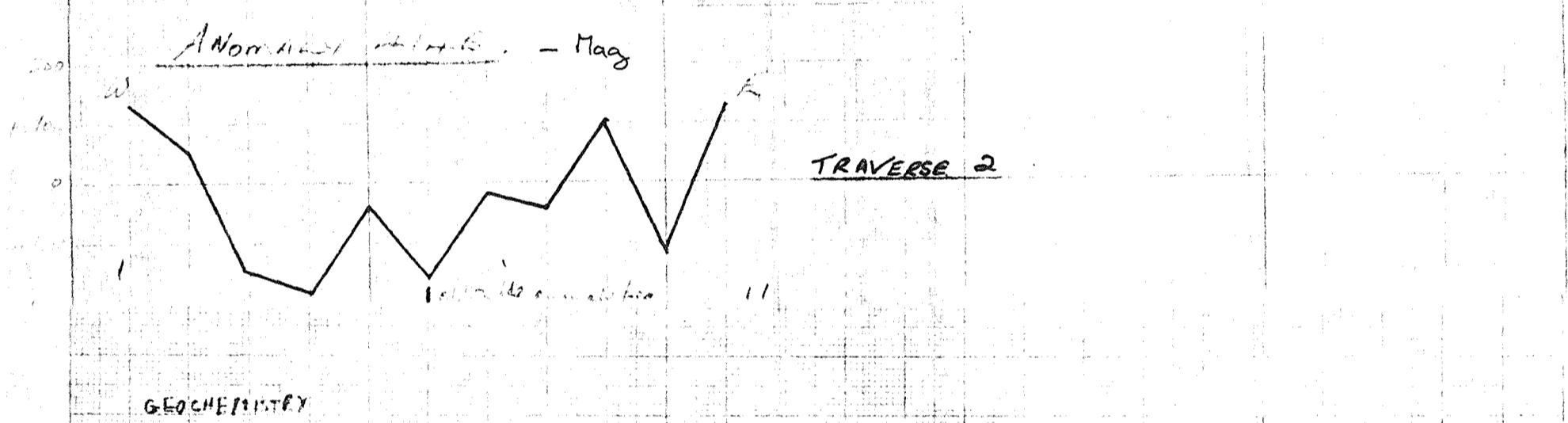
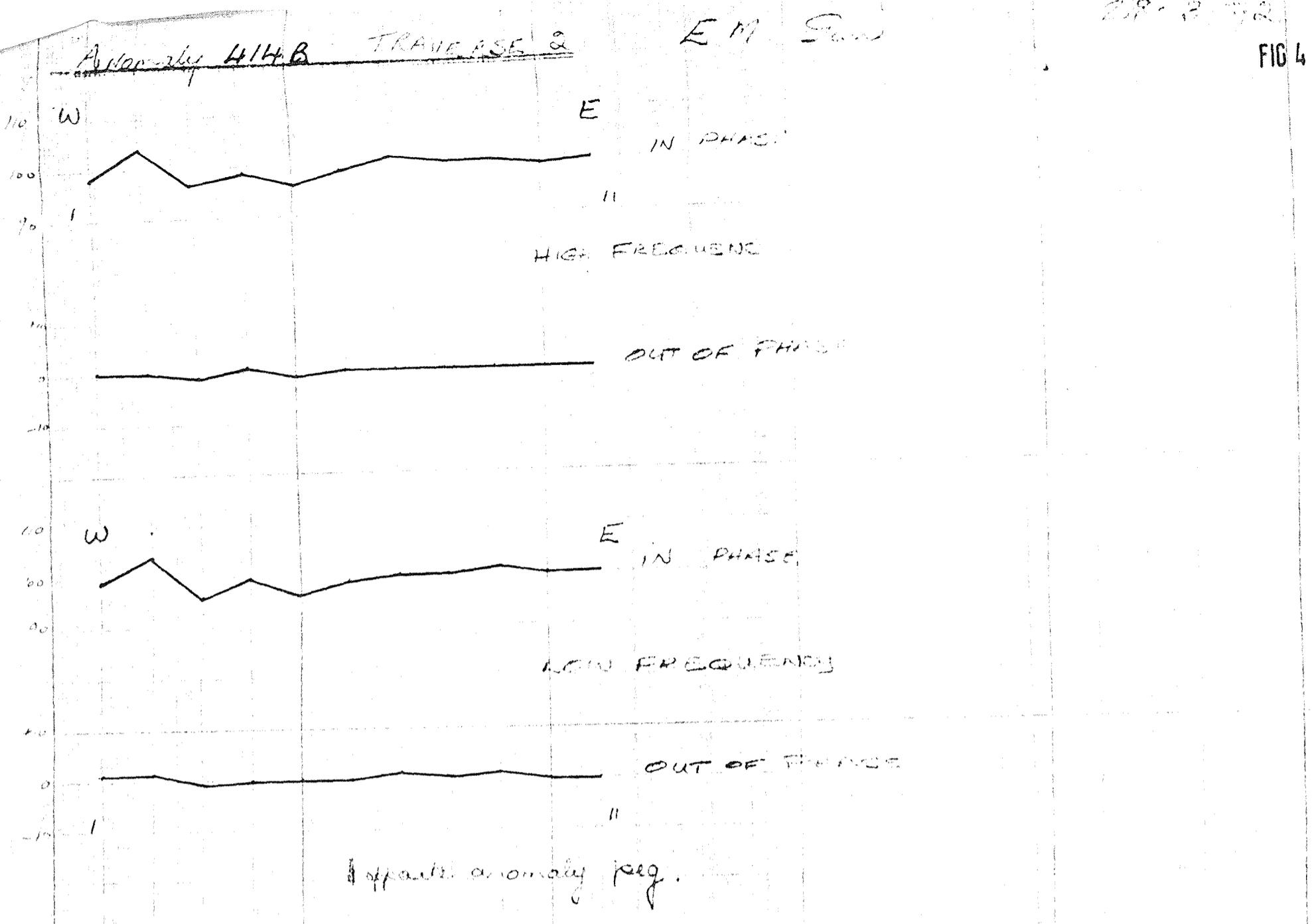


FIG 4



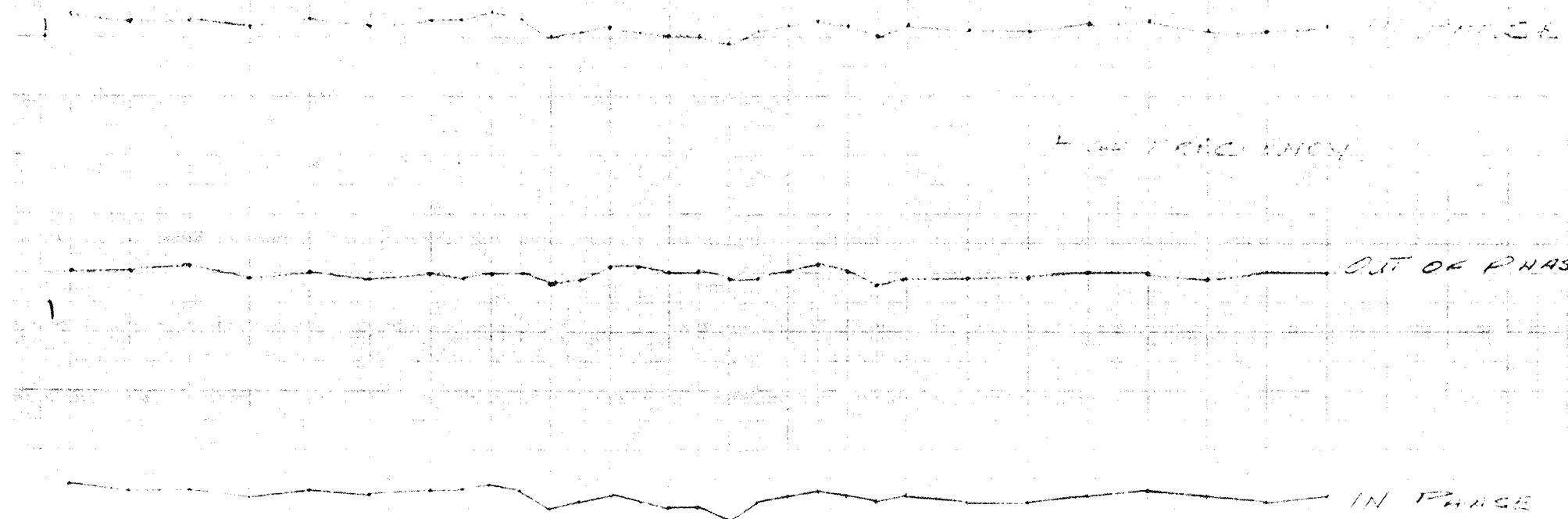
Anomaly 416c E.N. Gun Zoot cable

TRAVERSE 2

6-3-72

①

FIG 4



LOW FREQUENCY



2

After Searle fig.

Anomaly 446c

E.M. Gun 200 ft cable TRAVERSE I.

103.8

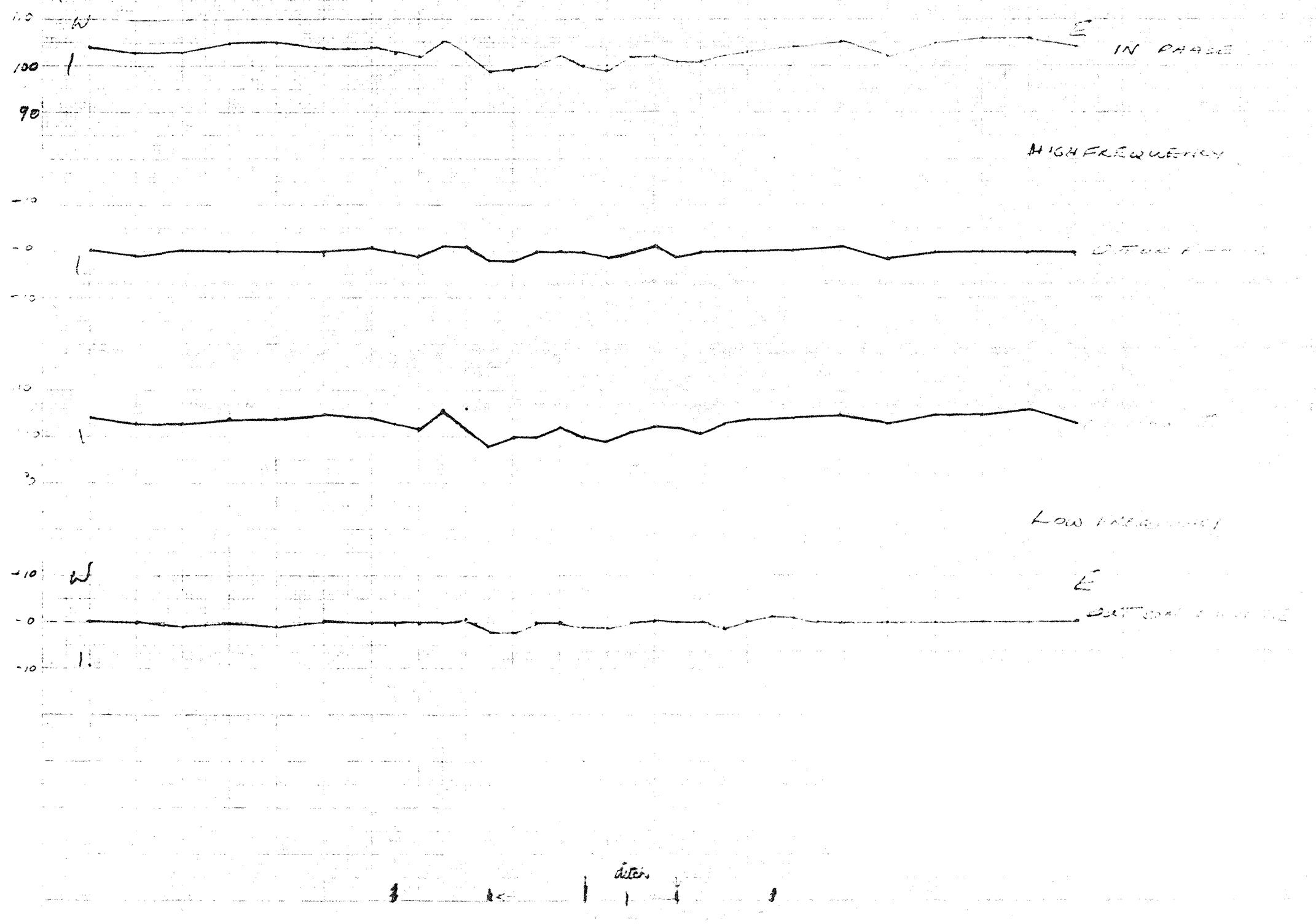
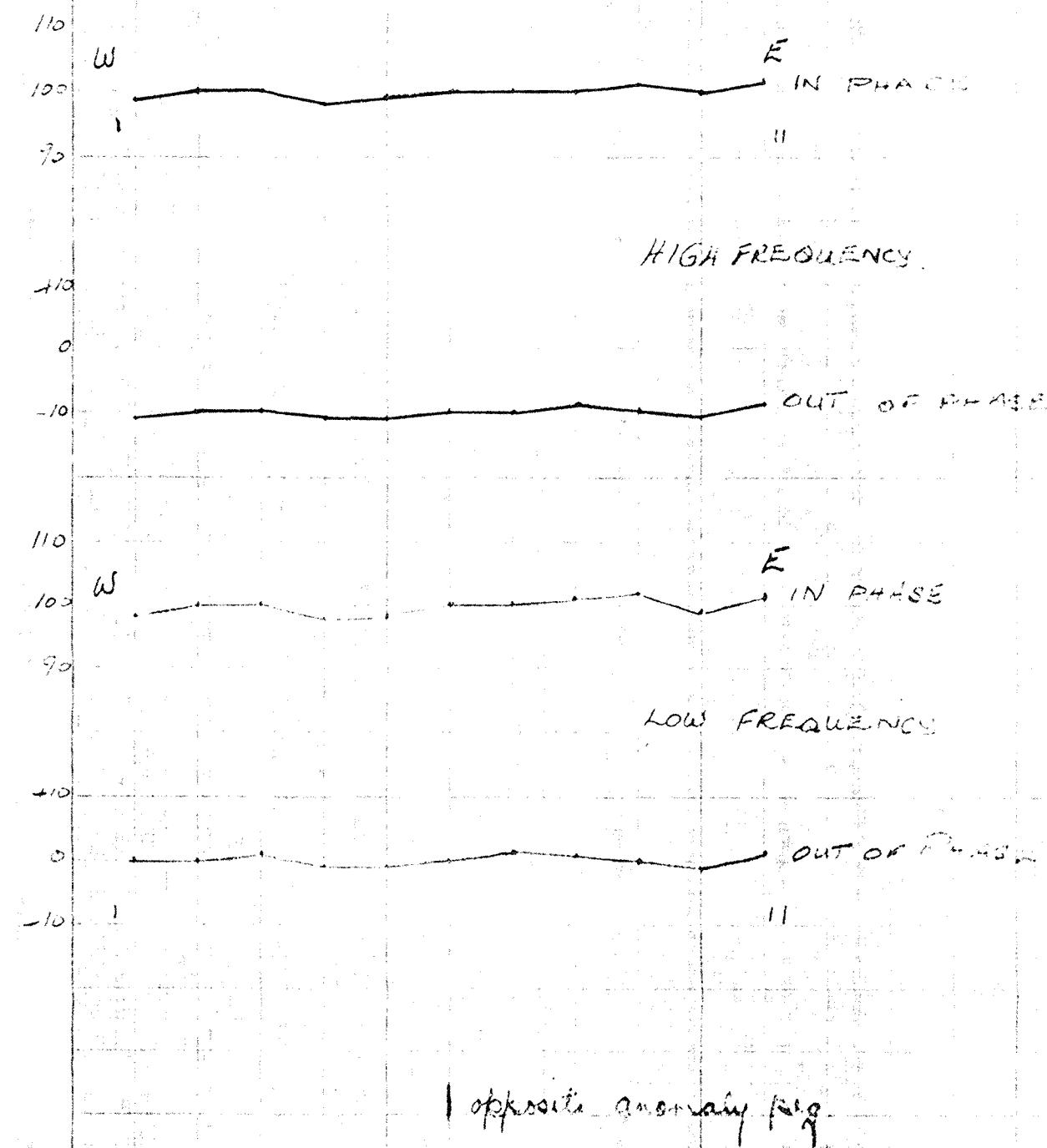


FIG 4

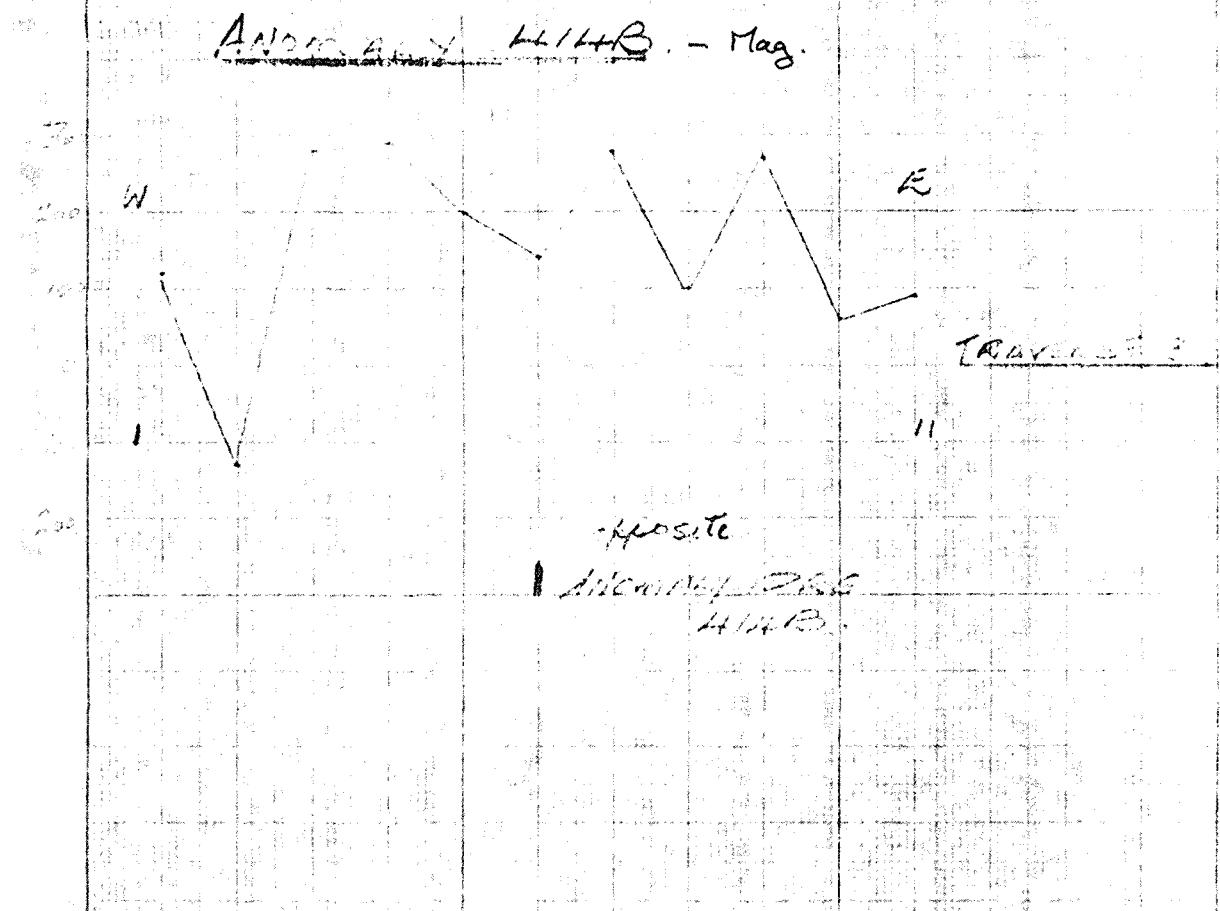
Anomaly 414B Traverses

28-3-72

FIG 4



1 opposite anomaly freq

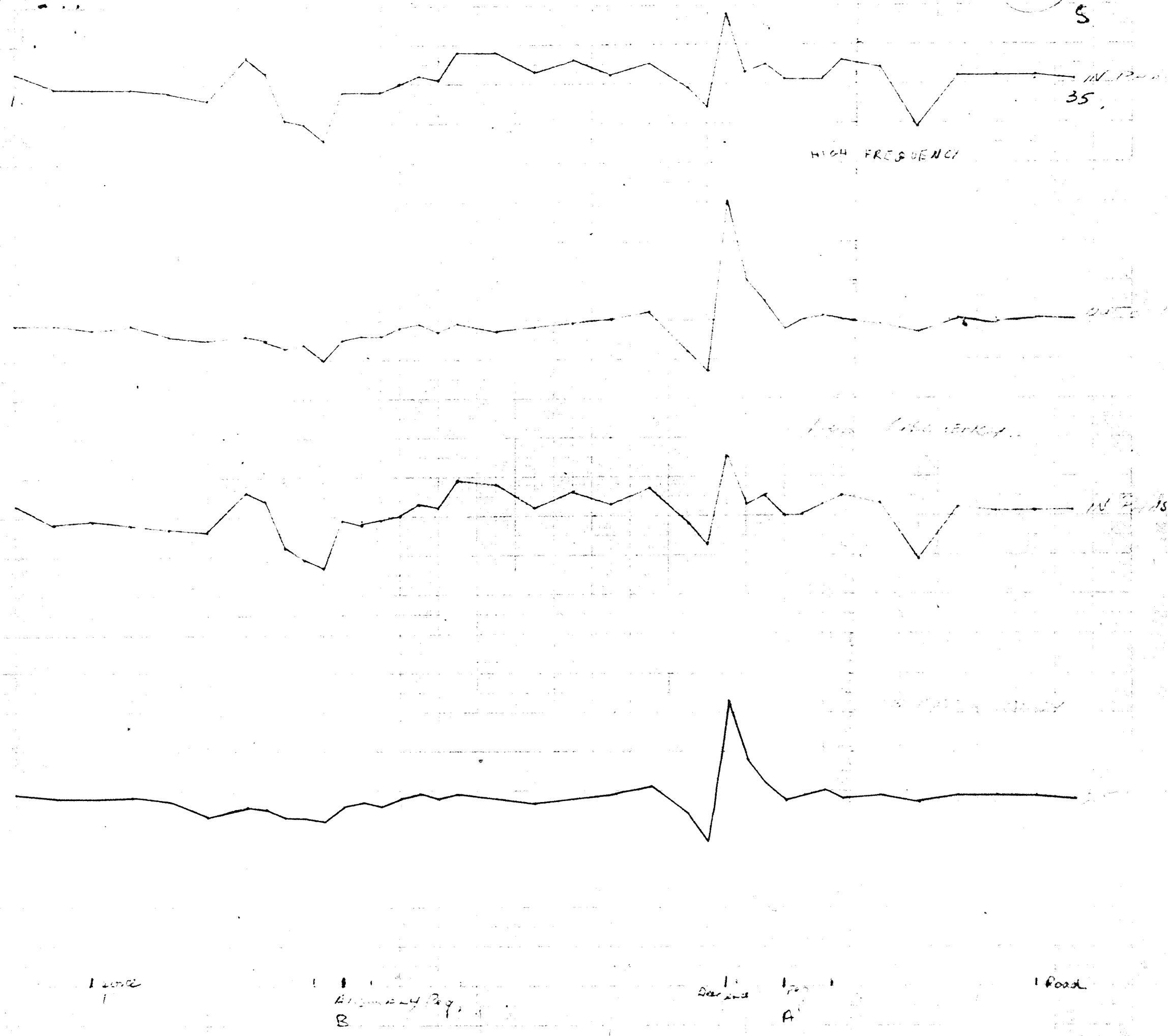


ANOMALY 406 A+B

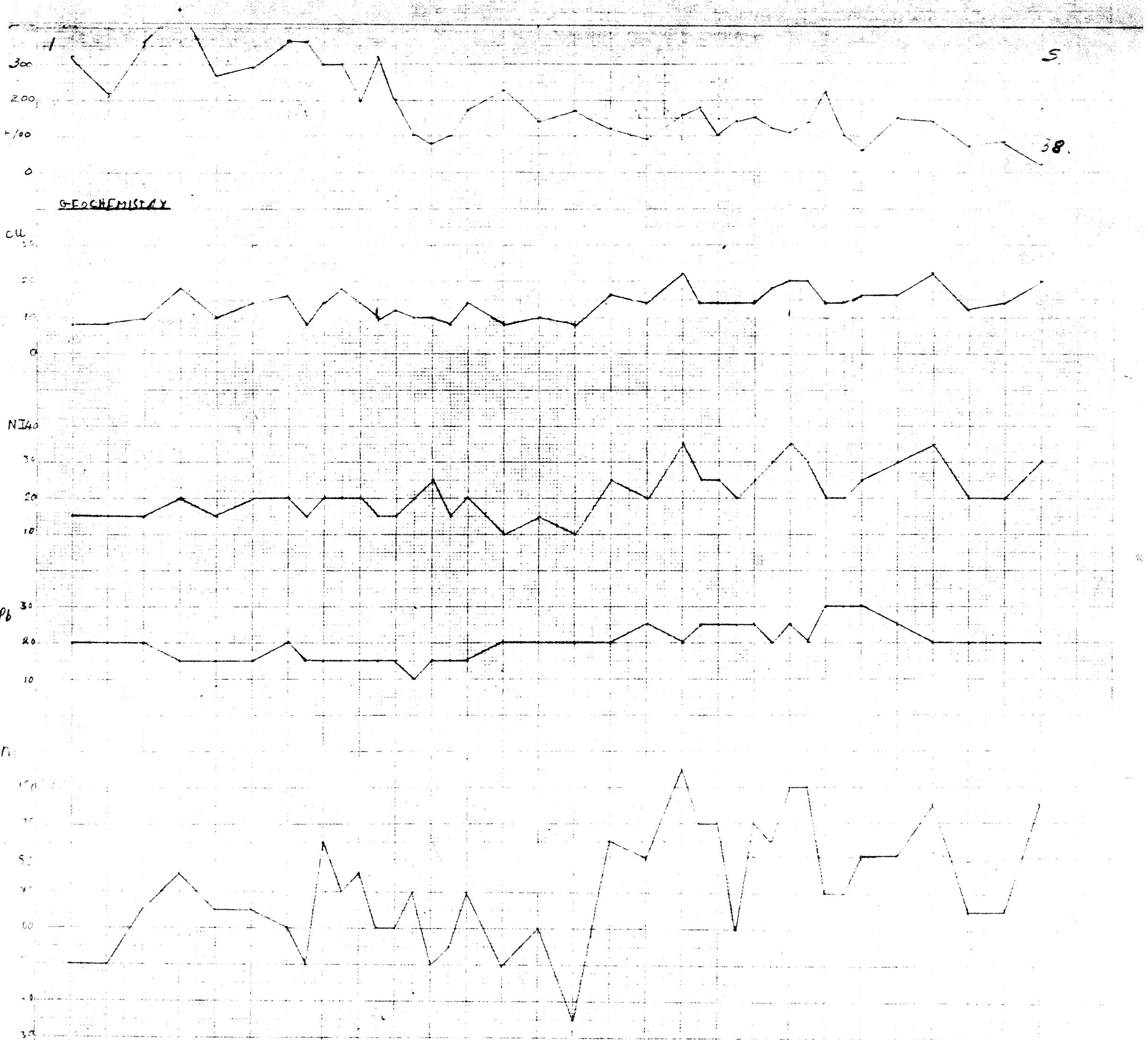
EMI GEM 2003 AREA

FIG. 4

S



MAGNETOMETER

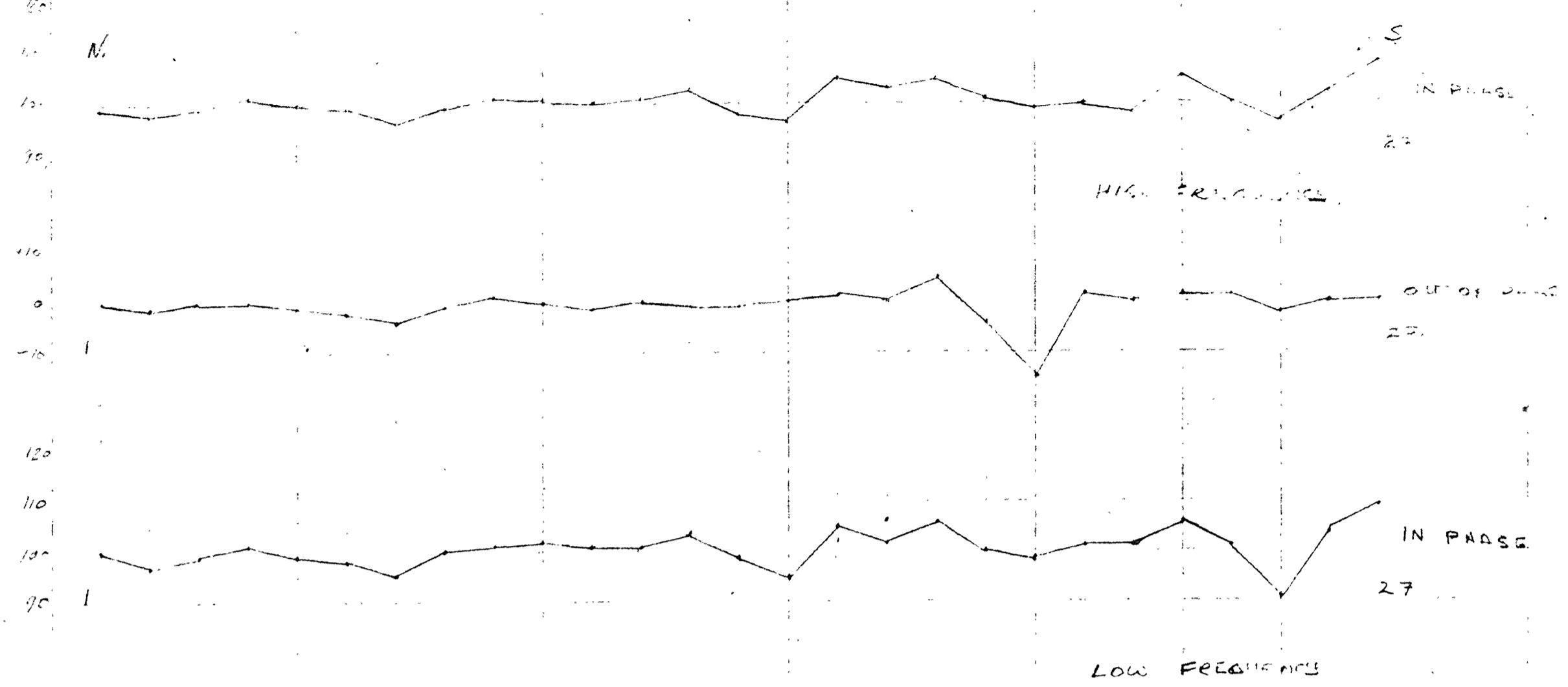


ANOMALY 406 A & B. TRAVERSE 2

E.M. Goni

28.3.72

FIG 4



opposite end of dyke

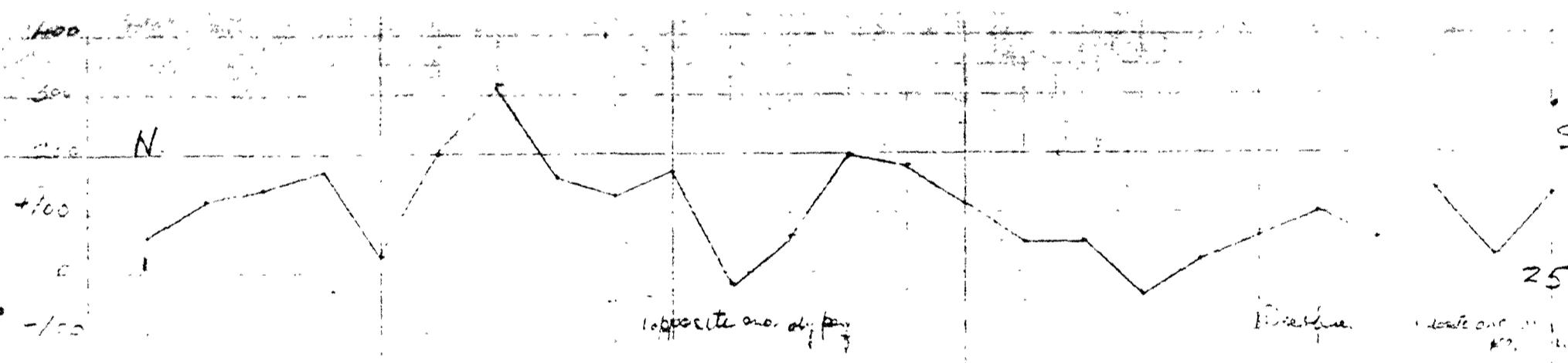
opposite end of dyke

down faulted zone

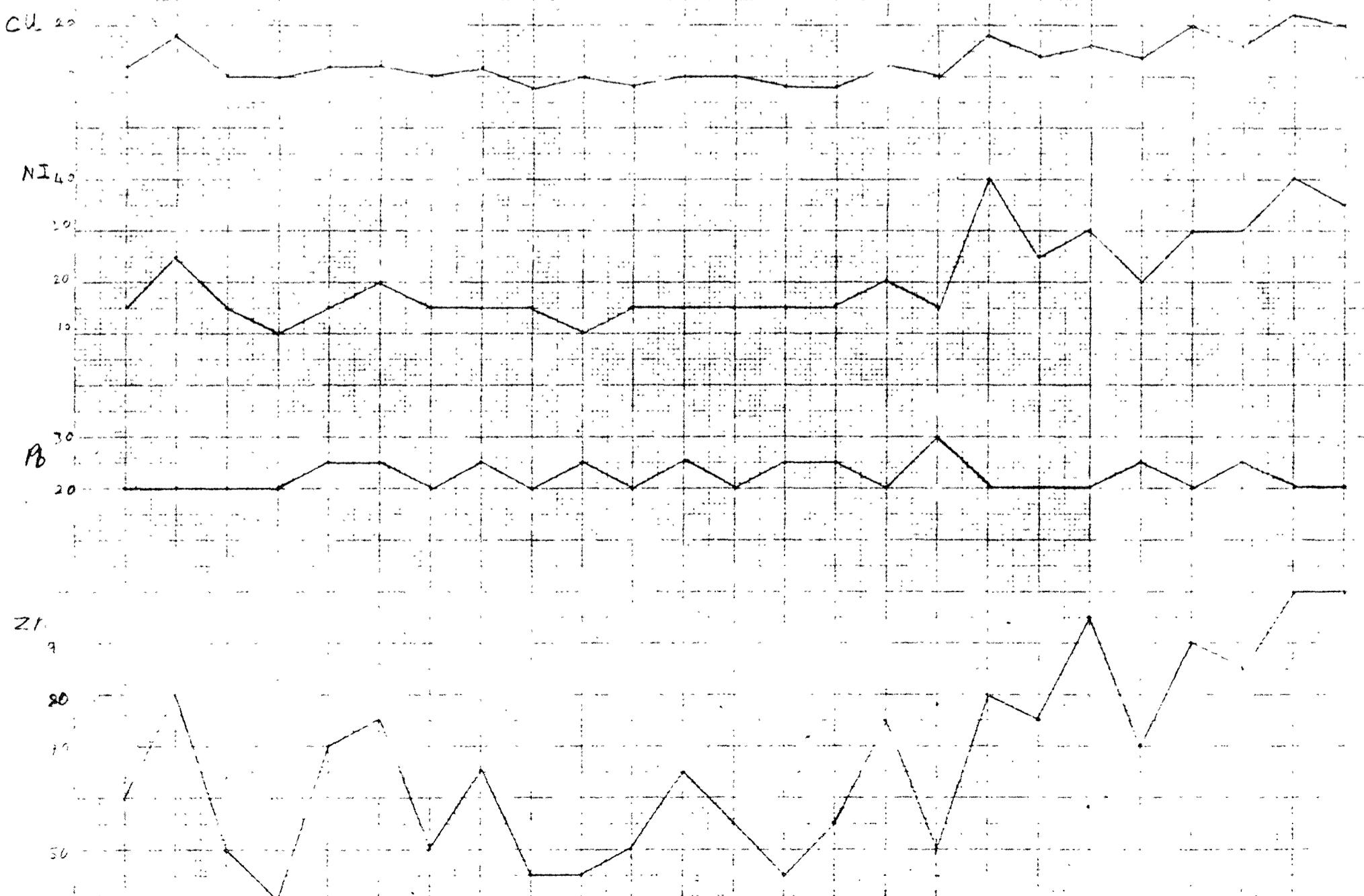
downward

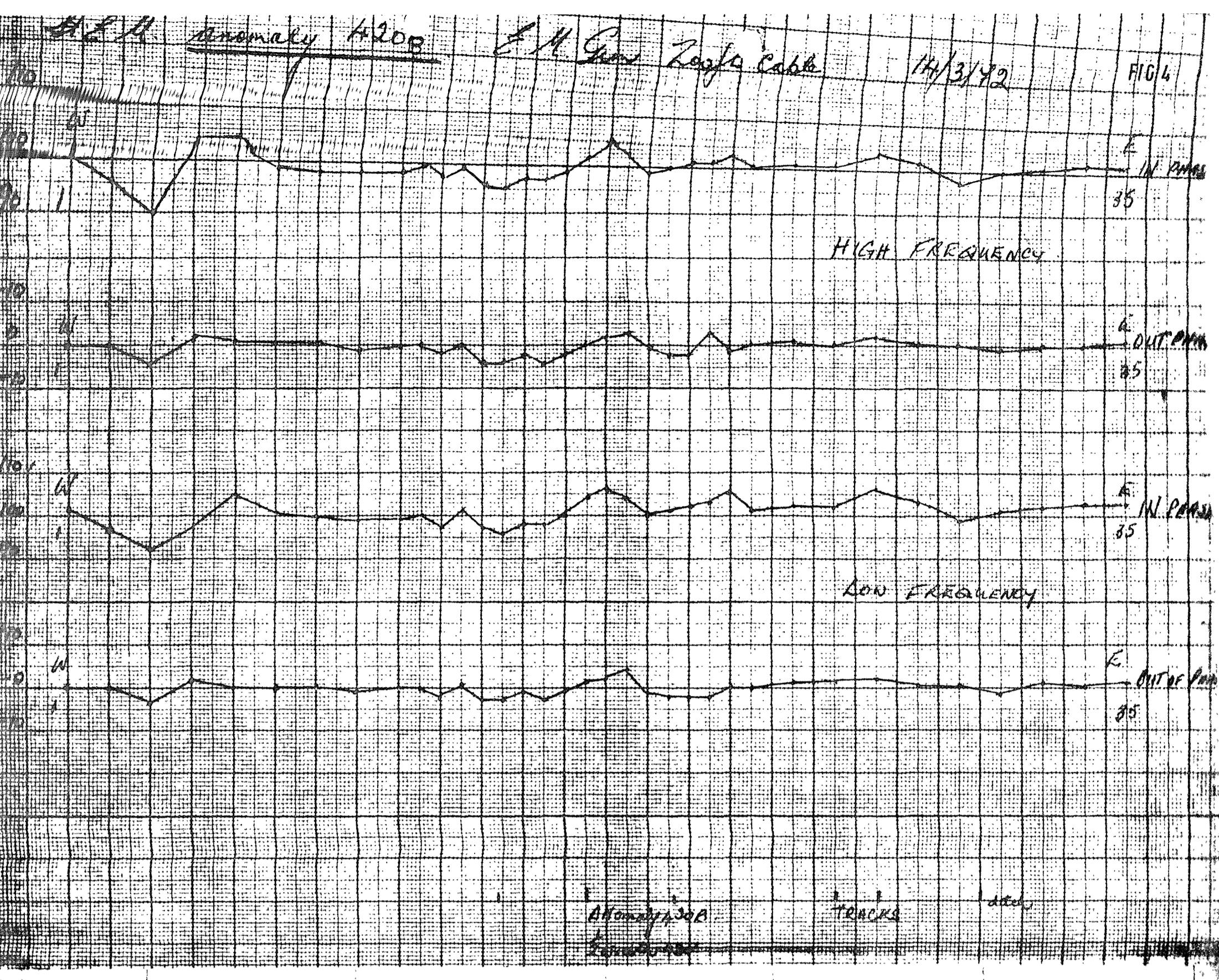
20-3-72

TRAVERSE 2. LOCATION E - Mag

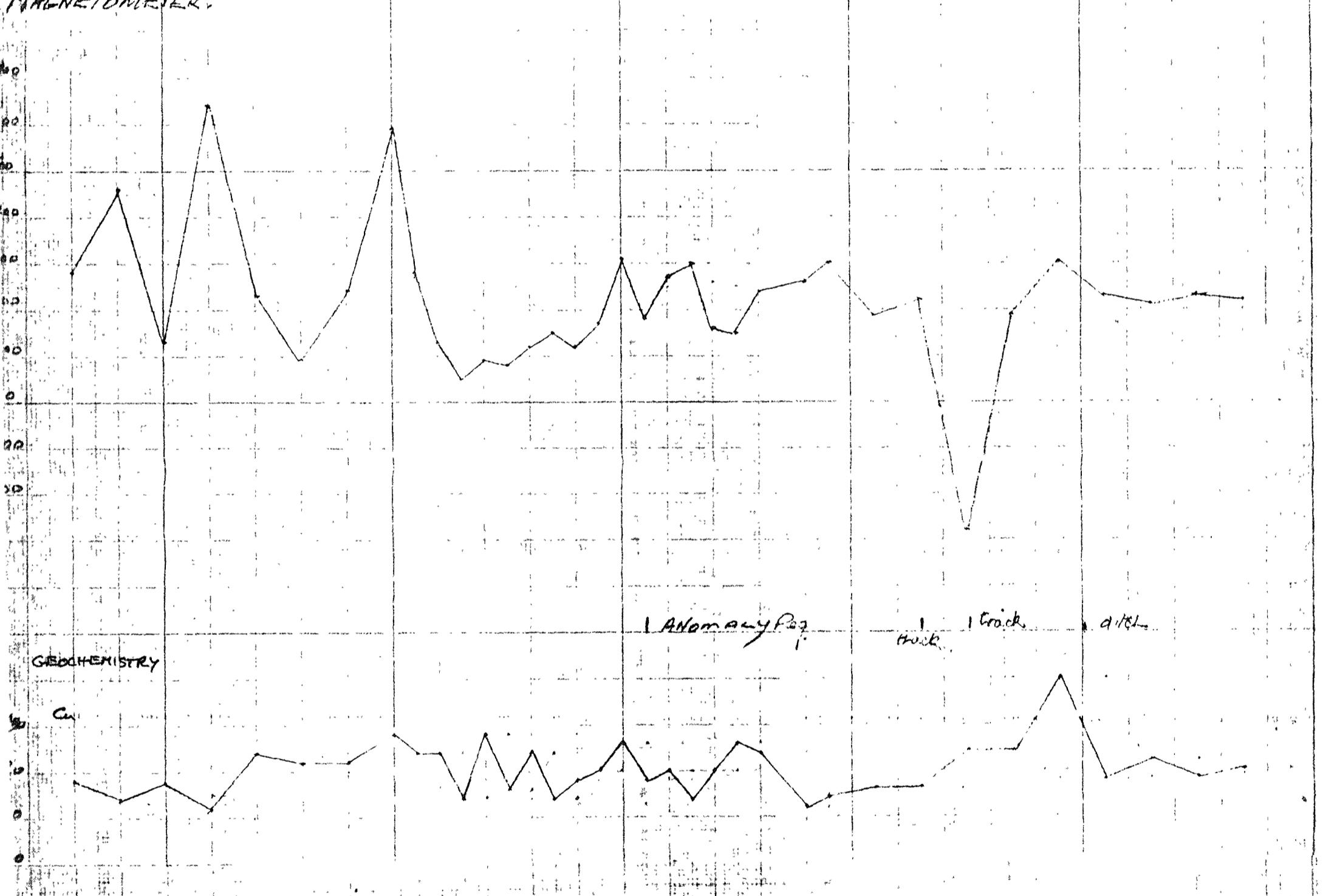


GEOCHEMISTRY

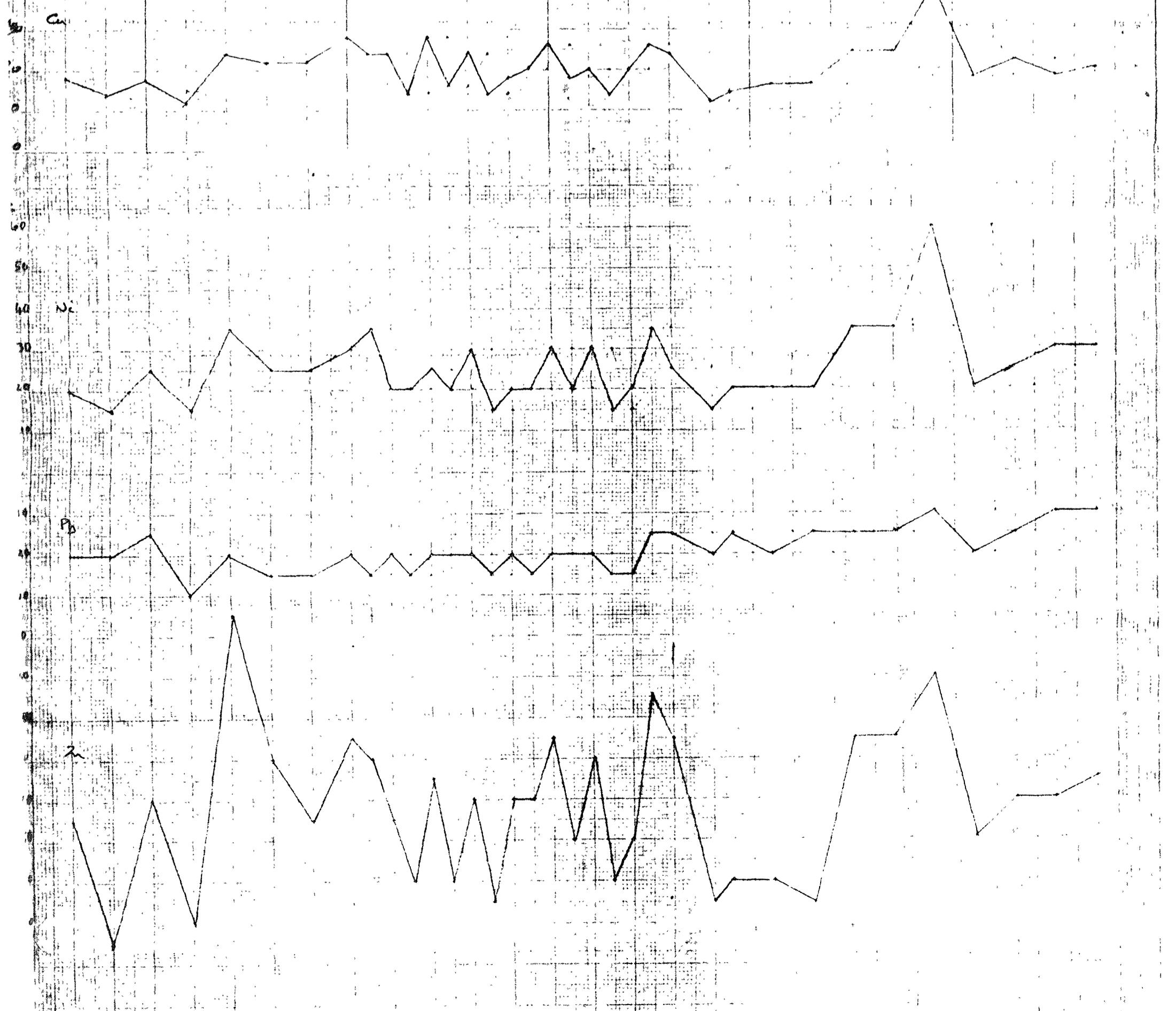




MAGNETOMETER.



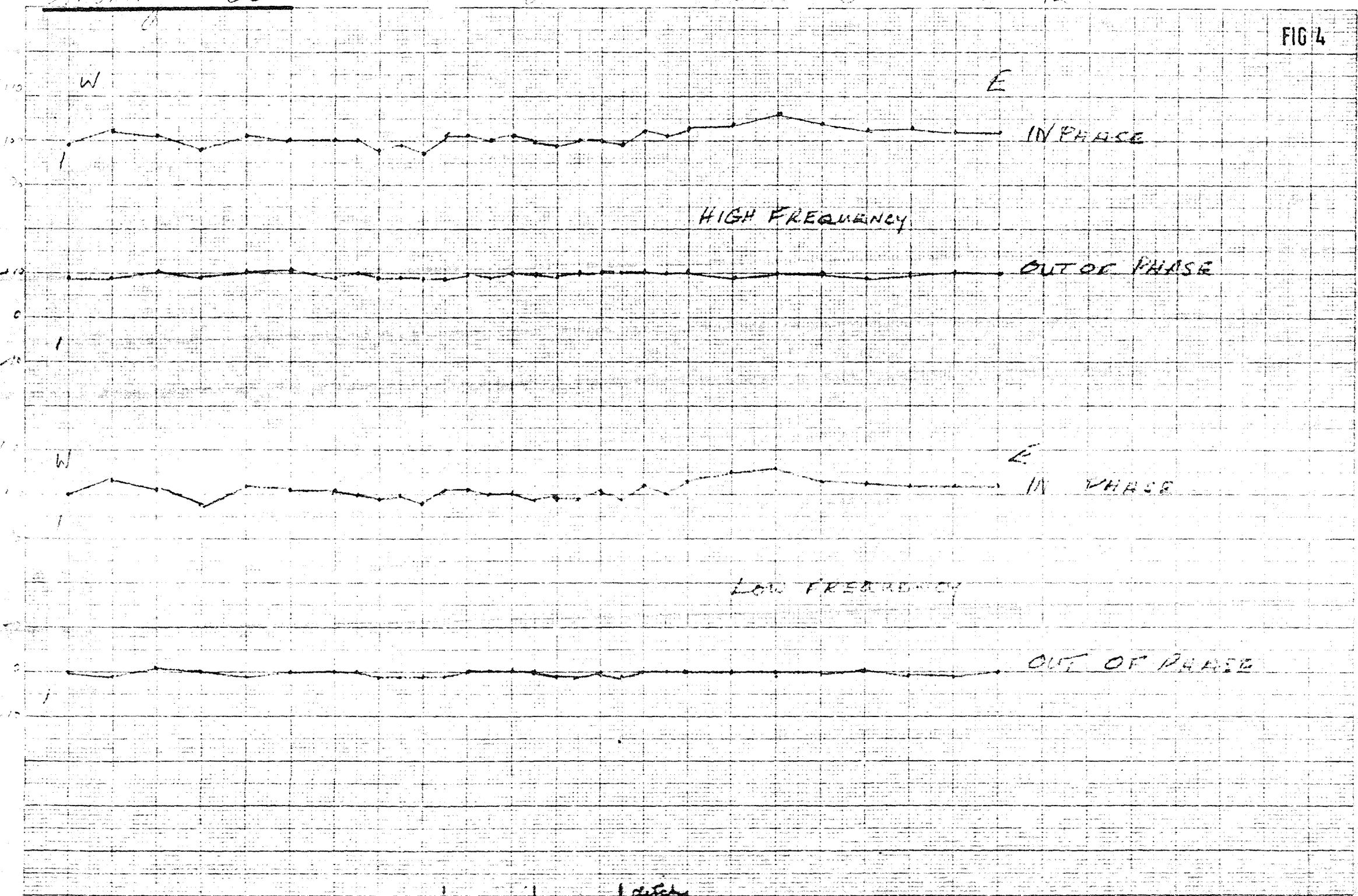
GEOCHEMISTRY



Field #16C - K.M.C. 5/24/92

卷之三

① Mitchell
R Mackie



TRAVERSE 2 ANOMALY 420 B.

FIG 4

NW

SE

100
200
300
400
500

HIGH FREQUENCY

NW

SE

100
200
300
400
500

LOW FREQUENCY

TRAVERSE 2 420 B. - Mag

NW

20/3/72

SE

25

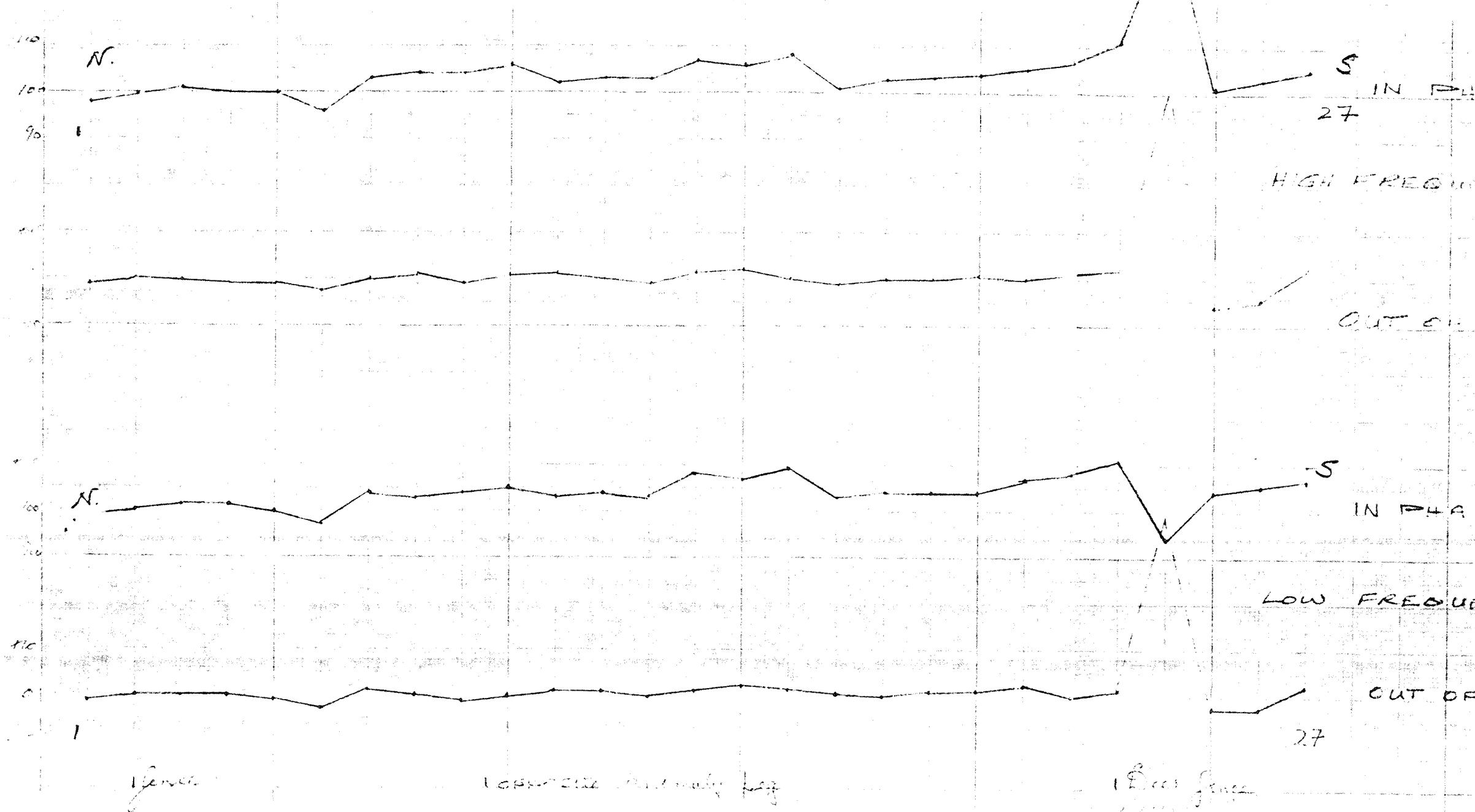
opposite anomaly

HORNETS 406 A & B TRAVERSE.

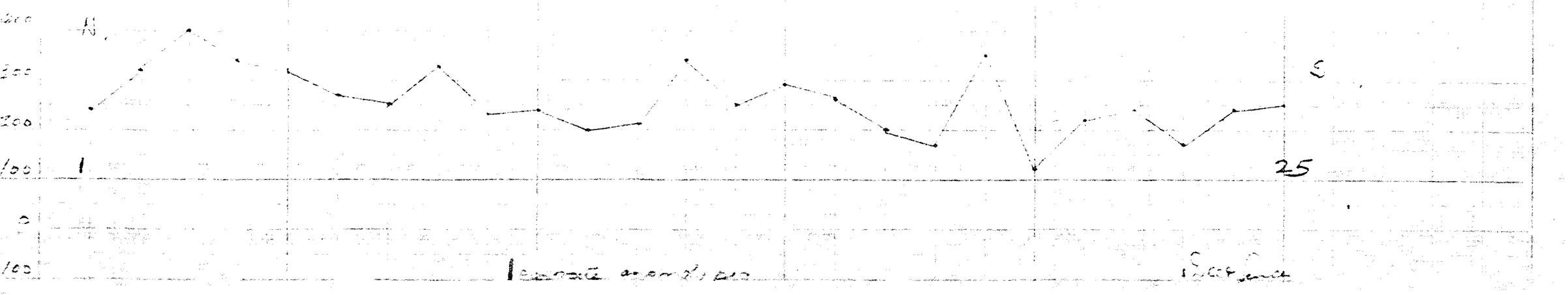
E.M. Gage

FIG 4

28



TRAVERSES 406 A & B - Mag.

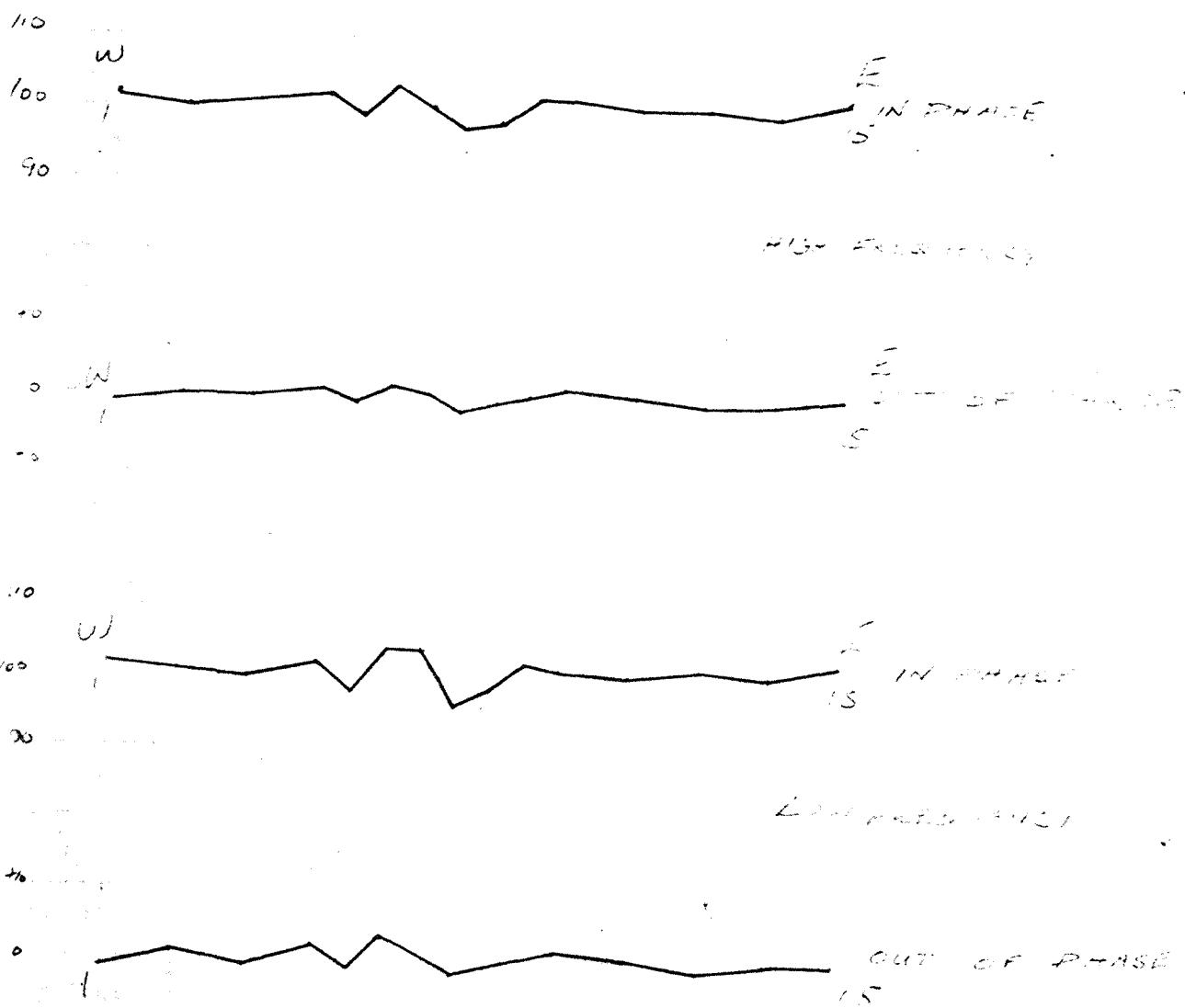


Anomaly 414B

E.M.Gun Zooth cable

4-3-72

FIG 4



ANOMALY 414B

MAGNETOMETER

14-3-73

