

I, M.P. STADNYK, of 1770 Hornby St., Vancouver, B.C. do declare that the following costs were incurred on an Induced Polarization Survey performed on the following mineral claims :-

Zenith Mining Corporation Ltd. (NPL)

Lorna Group

Lorna 1-15	(52588-602)	Nov 15
Lorna 18-31	(52605-52618)	Nov 15
Zen 1-6	(53559-564)	Feb 9
Lorna Fr. #8	(65643-650)	Aug 15
Mac 4,5	(65651-652)	Aug 15

Mat Group

Mat 1-20	(52833-852)	Nov 29
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Pam Group

Mars 1-19	(54394-412)	Mar 22
Pam 1,3,5,7,9,11,13,15, 17	(52938,40,42,44,46, 48,50,52,54)	Dec 9
Pamm	(66403)	Oct 10
Pam Fr.	(66404)	Oct 10
Mars Fr. #1	(66673)	Oct 20

Mollie Mac Mines Ltd. (NPL)

Brennan 1-3	(74119-122)	Nov 6
Jon 1-2	(74419-420)	Nov 12
Jon Fr. 1-2	(74421-422)	Nov 12
Ban 1-3	(74423-425)	Nov 12
Jonn 1-3	(81570-572)	July 11
Jonn Fr. #4	(81573)	July 11
Jonn Fr. #5	(83348)	Aug 29

situated in the Kamloops Mining Division, Highland Valley, B.C. Claims owned by Zenith Mining Corporation Ltd. (NPL) and Mollie Mac Mines Ltd. (NPL). Survey performed by Geoscience Incorporated of Cambridge, Massachusetts, U.S.A. between September 2, 1969 and October 26, 1969.

LABOUR

G. Ryan (Party chief)	50 days @ \$80 per Day	\$ 4000.00
	Sept 2 - Oct 26/69.	
G. Baker	1 day @ \$27 per Day	27.00
	Sept 3/69.	
M. Funk	12 days @ \$30 per Day	360.00
	Sept 2-16/69.	
J. Curtiss	37 days @ \$26 per Day	962.00
	Sept 12-Oct 26/69.	
B. Phillips	37 days @ \$26 per Day	962.00
	Sept 12-Oct 26/69.	
E. Foster	19 days @ \$22 per Day	418.00
	Sept 12-Oct 4/69.	
G. Wong	45 Days @ \$26 per Day	1170.00
	Sept 2-Oct 26/69.	
M. Boisvert	10 days @ \$26 per Day	260.00
	Sept 2-10/69.	
R. Vipond	3 days @ \$26 per Day	78.00
	Sept 2-5/69.	

\$8237.00

INTERPRETATION AND PREPARATION OF REPORT

K. Vozoff (Geophysist)	2.5 days @ \$220 per Day	\$ 550.00
H. Lahman (")	6 days @ \$115 per Day	690.00
J. Cincotti (Draftsman)	4.5 days @ \$65 per Day	292.00

\$1532.00

DIRECT COSTS

Truck Rental - 3/4 Ton G.M.C. 4x4 (Rentways Calgary)		
	50 days @ \$14 per Day	\$ 700.00
Oil, gas, repairs, mileage		
	50 days @ \$5 per Day	250.00
Rental Equipment (IP)	50 days @ \$50 per Day	2500.00
Camp	214 man days @ \$10 per Day	2140.00
Equipment repair, hardware & sundries		506.00
General and Administrative expenses		<u>2380.00</u>

\$18,245.00

Declared before me at the City
of Vancouver, in the
Province of British Columbia, this 28
day of January, 1970, A.D.

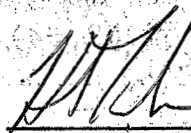
Ant Stadnick

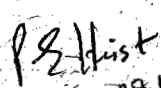
2235

Assessment Report on Geophysical (Induced Polarization)
 Work done on Zenith Mining Corp. Ltd., and ~~Molybdenum~~ MOLLIE
 MAC Mines Ltd. Properties (50°N, 121°N)
 in the Highland Valley, B.C. (ZML Claims: ZEN 1-6;
 LORNA 1-15, 18-31; LORNA (FR) 1-8; MAT 1-20;
 MARS 1-19; PAM 1,3,5,7,9,11,13,15,17;
 PAM (FR); PAMM, MARS (FR) 1. MML Claims:
 BRENNAN 2, 4; JON 2; JONN 1-3; JON (FR) 4, 5;
 BAN 1-3) under Contract to Can West Investments, Ltd.

Surveyed 2 September through 26 October, 1969

By


 H. S. Lahman


 P. Hirst
 Dec. 29, 1969

Geoscience Incorporated
 199 Bent Street
 Cambridge, Mass. 02141

December 1969

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#2 Apparent Frequency Effect -----	Pocket
#3 Metal Conduction Factor -----	Pocket
#4 Mineral Claim Map -----	Pocket
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Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 2235 MAP

I. INTRODUCTION

Between 2 September and 26 October, 1969, Geoscience Incorporated, undertook an induced polarization (IP) survey of the Zenith Mining Corp. Ltd., and a portion of ^{MOLLIE MAC} ~~Molyne~~ Mines Ltd., properties in the Highland Valley, British Columbia. This work was done under contract to Can West Investments Ltd., of Vancouver, British Columbia. The objective of the survey was to detect possible zones of metallic mineralization. A total of 44.8 line miles of reconnaissance IP was done.

Standard frequency domain IP equipment was employed. The current transmitter was a Geoscience model T2800 and the signal receiver was a Geoscience model 5280. The electrode configuration employed was a dipole-dipole array. The dipole length was 400 ft. and center to center dipole separations of 2 and 3 were used throughout.

Access to the property was quite difficult, particularly to the northern end. The weather was poor during September. Some noise interference was encountered from IP crews operating on adjacent properties. These factors slowed production somewhat.

Personnel consisted of:

George Ryan, party chief

3 local laborers.

II. DISCUSSION OF RESULTS

The background resistivities and apparent frequency effects are typical of the Highland Valley. In general, the variations in resistivity and apparent frequency effect could be traced from line to line. The resistivities were sufficiently high so that electromagnetic coupling between sender and receiver can be eliminated as a source of spurious frequency effect enhancement. Spot check repeated readings (line 50N) made several weeks after the original recordings show very close agreement with the earlier readings. In view of these facts, the data must be regarded as reliable.

Several anomalies were encountered on the property. They are shown in the anomaly location map (located in the pocket at the rear of the report). The faint anomalies encountered on the eastern portion of Block I are quite weak and the apparent frequency effects do not correlate well with the metal factor variations. For these reasons it is doubtful that they represent mineralization in any significant amount.

There remain four anomalous zones which are of interest by Highland Valley standards; there is one zone which would be regarded as interesting in most other mineral districts. These will be discussed individually.

ANOMALY I:

This is the strongest anomaly with apparent frequency effects in excess of 5.0%. The frequency effect anomaly is confirmed by the metal conduction factors. This anomaly tracks quite well from line to line.

It is probable that this anomaly reflects the presence of metallic mineralization. However, the mineralization will be disseminated and may not be of economic type or grade.

ANOMALY II:

This anomaly is similar to anomaly I, but is somewhat weaker. It is probably a continuation of the same zone as anomaly I. The frequency effects are not quite as strong as on anomaly I (2-4%), but the resistivities are somewhat lower so that the metal factor anomaly is comparable to that of anomaly I. This anomaly probably represents at least some metallic mineralization. It is somewhat less likely than anomaly I to represent mineralization of economic importance.

ANOMALY III:

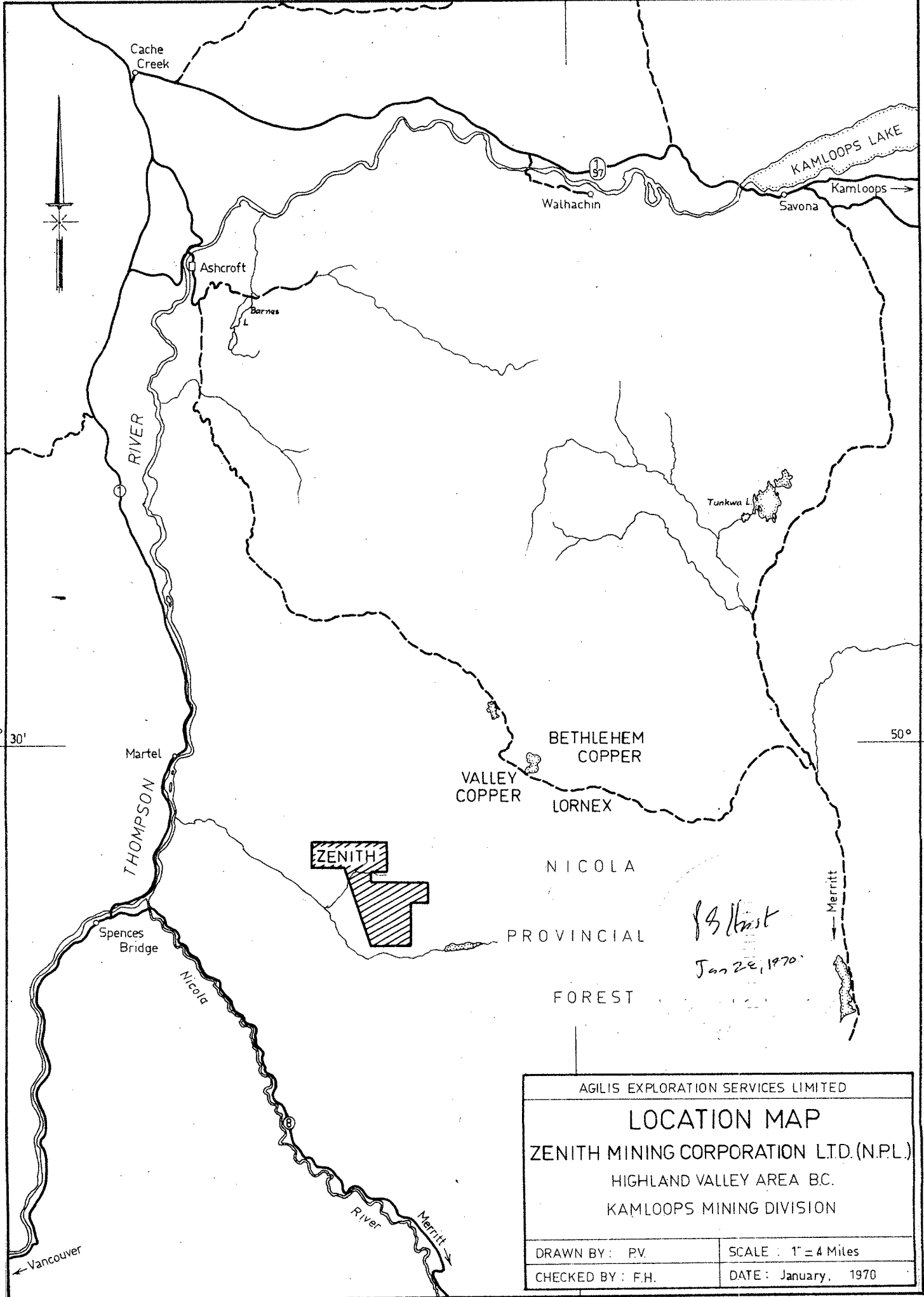
This anomaly is solely a frequency effect anomaly. In fact the metal factors tend to decrease in this area. The resistivities are quite high in this area. The increased frequency effects probably represent a decrease in porosity to the extent that very minor metallic mineralization can cause significant frequency effects. Such a case is one of the arguments in favor of the use of metal conduction factors. It has been demonstrated empirically that when increased frequency effects are accompanied by decreased metal factors, it is rather unlikely that the frequency effect anomaly represents economic mineralization. This anomaly is regarded as probably not representing significant mineralization.

ANOMALY IV:

This anomaly is quite similar to anomaly II except that its areal extent is quite a bit less. Though this anomaly probably represents metallic mineralization, it is somewhat less desirable as a prospect than anomaly II. The reason is that besides the questions of mineralization type and grade, there is the consideration of possible tonnage. While anomalies I and II might represent sufficient tonnage to warrant exploitation of a low grade deposit, this might not be possible at anomaly IV.

121°00'

4a



50° 30'

50° 30'

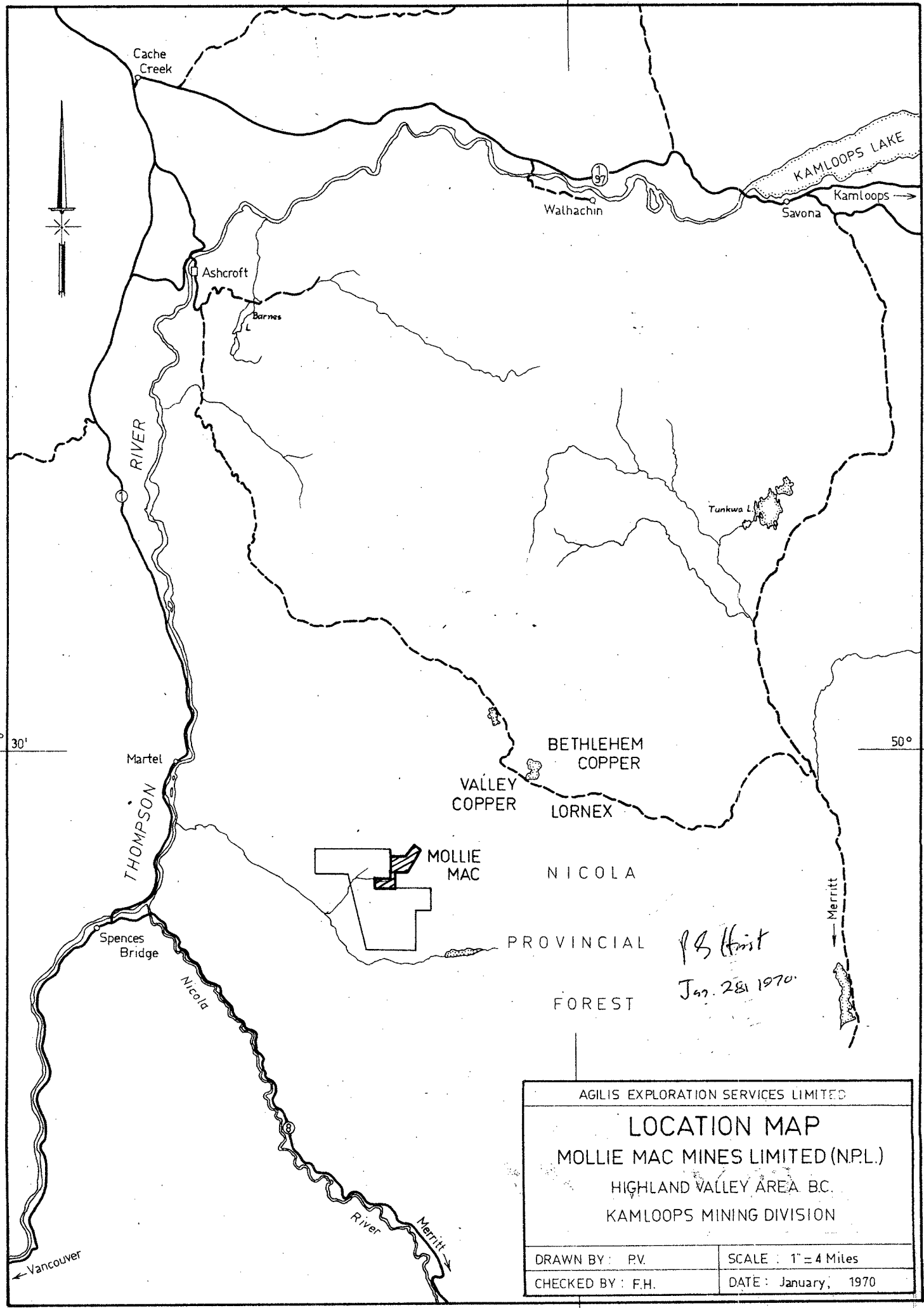
AGILIS EXPLORATION SERVICES LIMITED	
LOCATION MAP	
ZENITH MINING CORPORATION LTD. (N.P.L.)	
HIGHLAND VALLEY AREA BC.	
KAMLOOPS MINING DIVISION	
DRAWN BY : P.V.	SCALE : 1" = 4 Miles
CHECKED BY : F.H.	DATE : January, 1970

121°00'

NTS 92-1

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** MAP **#5**



50° 30'

50° 30'

AGILIS EXPLORATION SERVICES LIMITED	
LOCATION MAP	
MOLLIE MAC MINES LIMITED (N.P.L.)	
HIGHLAND VALLEY AREA, BC.	
KAMLOOPS MINING DIVISION	
DRAWN BY : P.V.	SCALE : 1" = 4 Miles
CHECKED BY : F.H.	DATE : January, 1970

Department of
Mines and Geologic Resources

Geological Survey

NO. **2235** MAP **#5**

APPENDIX I

Line-by-Line Induced Polarization Survey Results

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

line location ZENITH I

location CANADA

frequencies 3 8 .3 cps

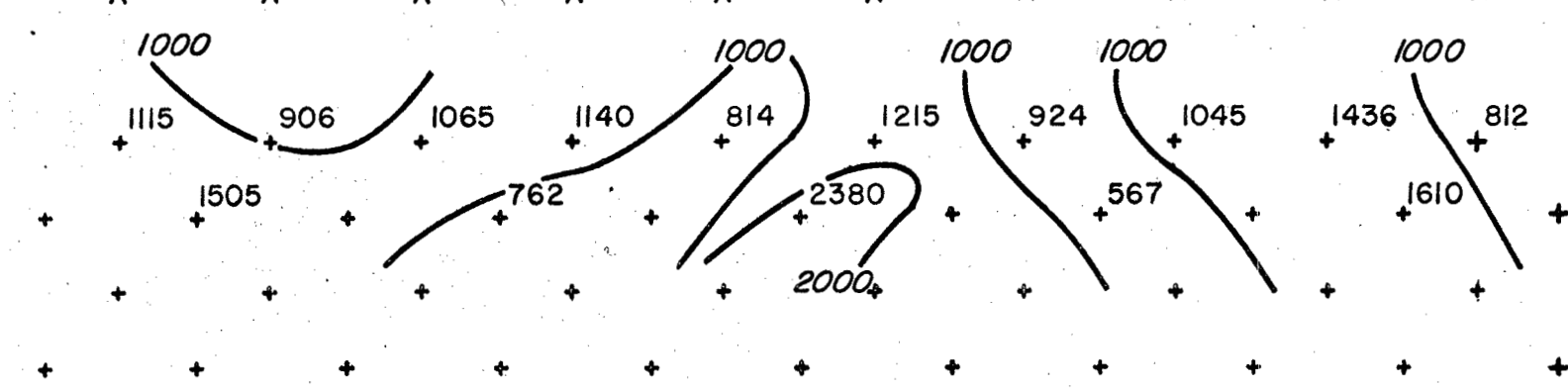
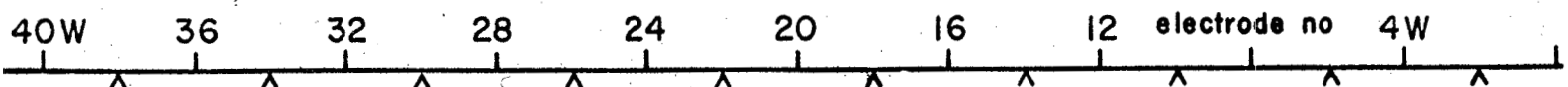
map ref. _____

dipole length 400'

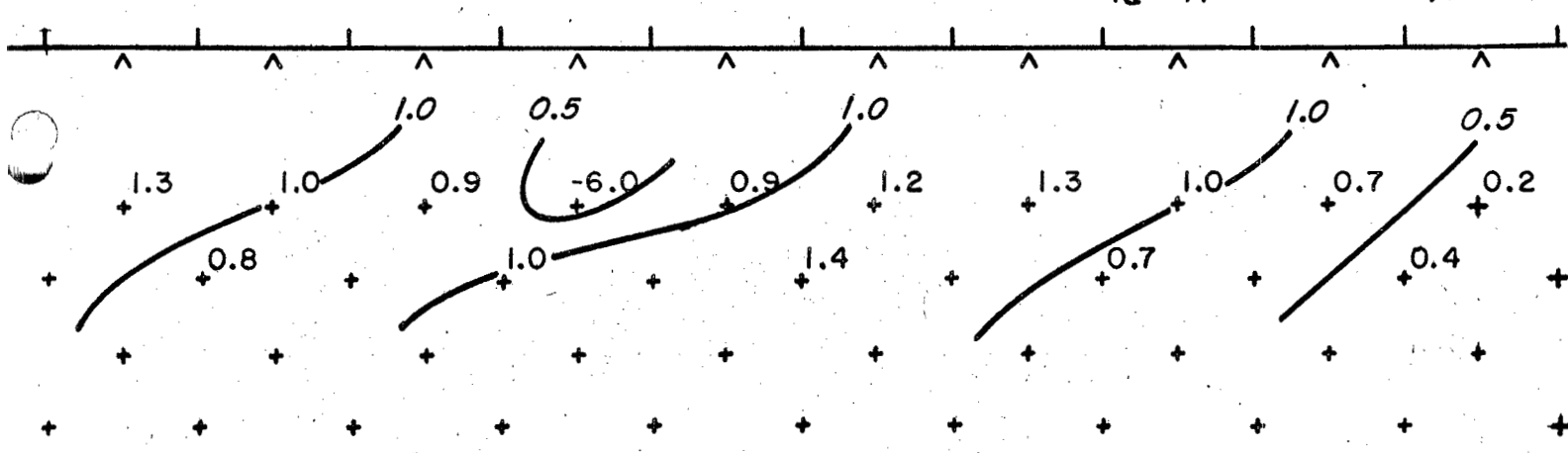
line no. ION

operators _____

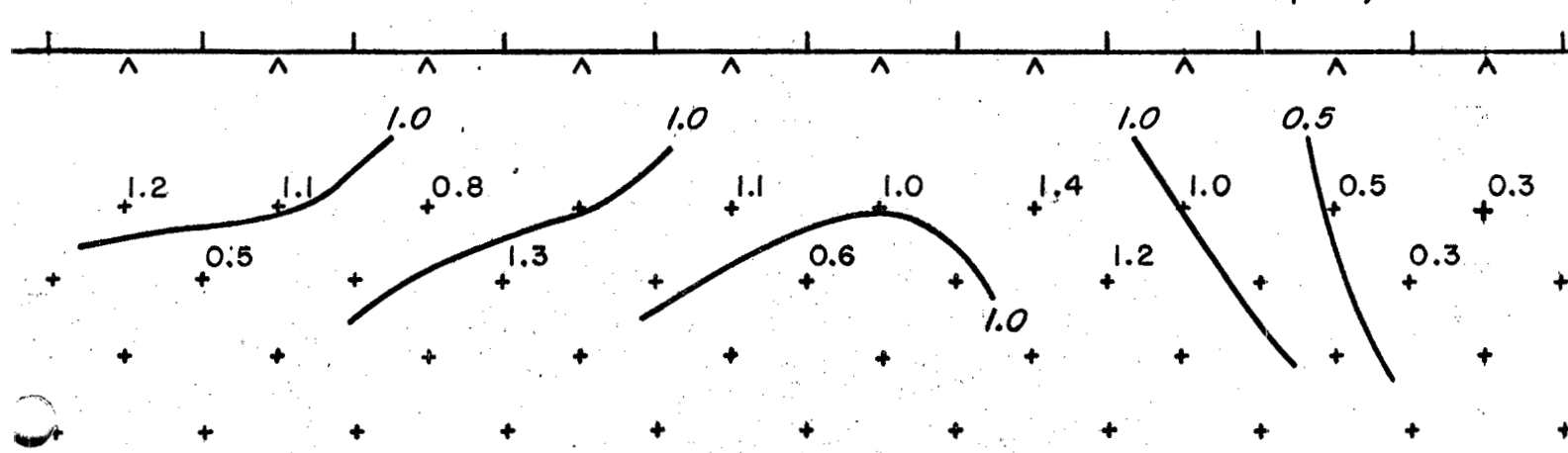
bearing _____



ρ_a (apparent resistivity)



% FE Frequency effect



$(M.F.)_a$ Metal Factor

continued from sheet _____ on sheet _____

Department of
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ASSESSMENT REPORT

NO. **2235** MAP

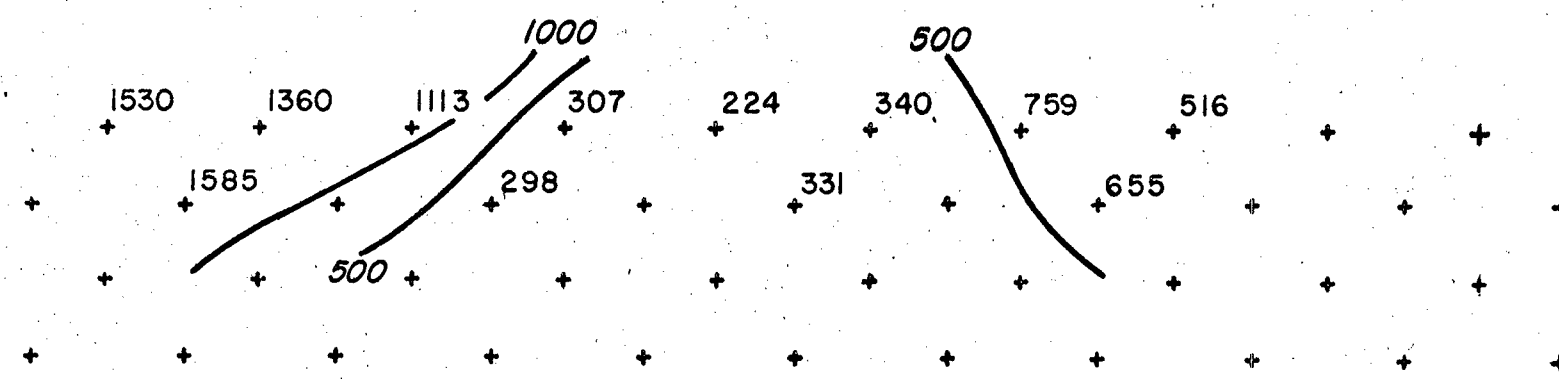
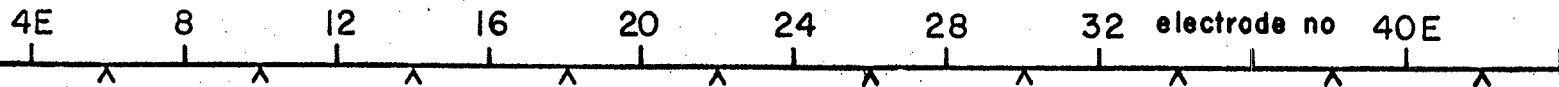
INDUCED POLARIZATION SURVEY

Geoscience Incorporated

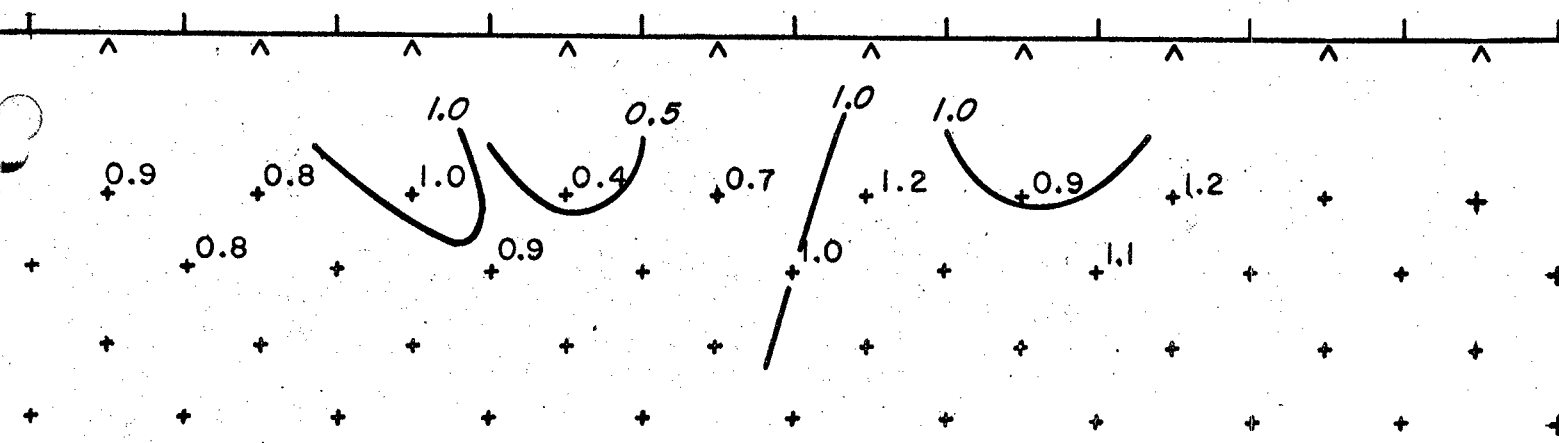
199 BENT STREET, CAMBRIDGE, MASS, 02141

line location ZENITH I
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

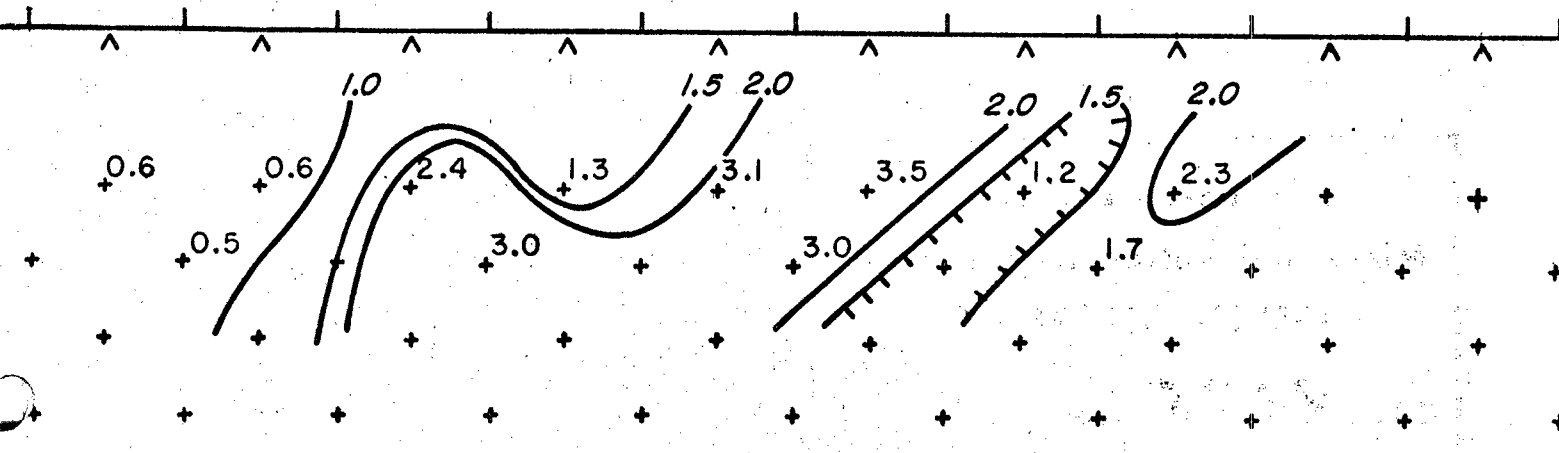
location CANADA date _____
 map ref. _____
 line no. ION
 bearing _____



ρ_a (apparent resistivity)



% FE Frequency effect



$(M.F.)_a$ Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** MAP.....

INDUCED POLARIZATION SURVEY

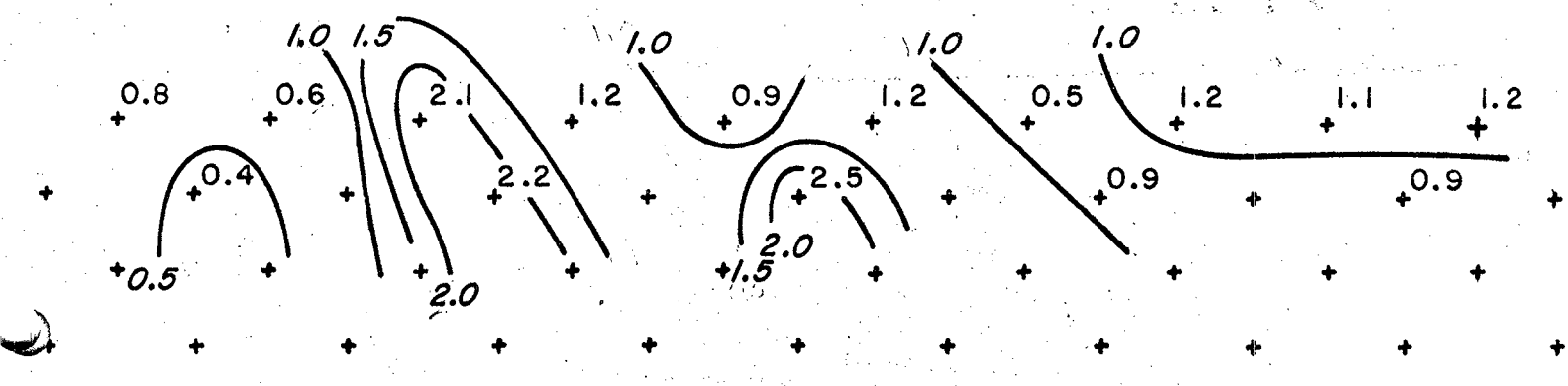
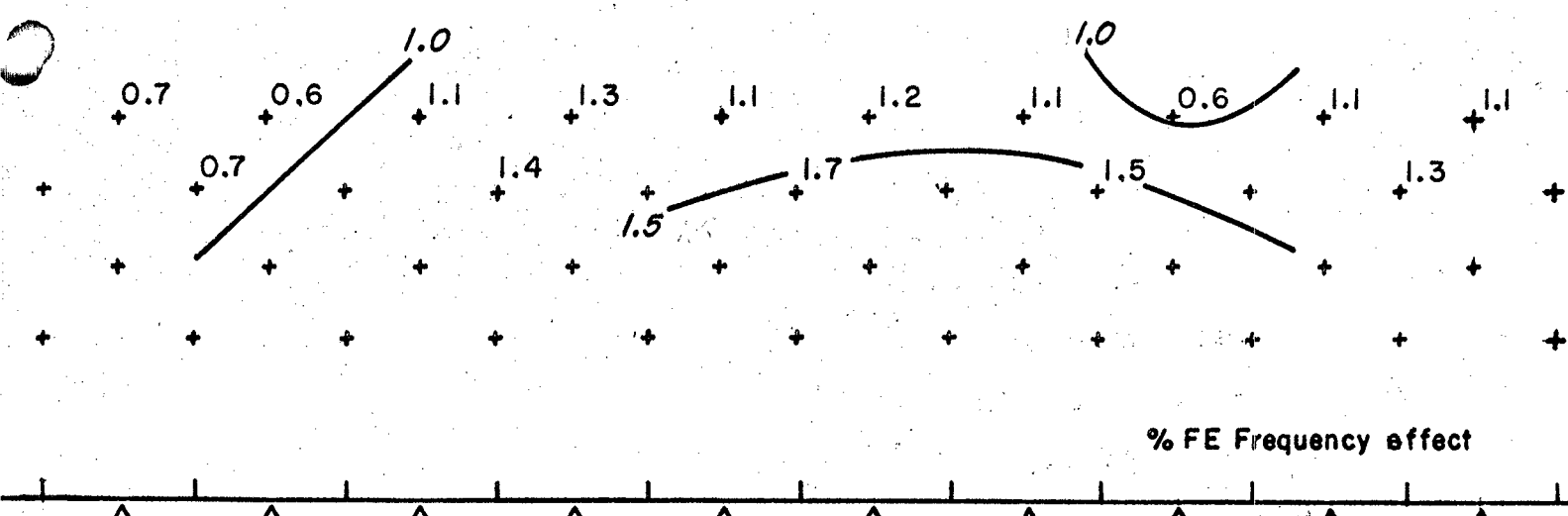
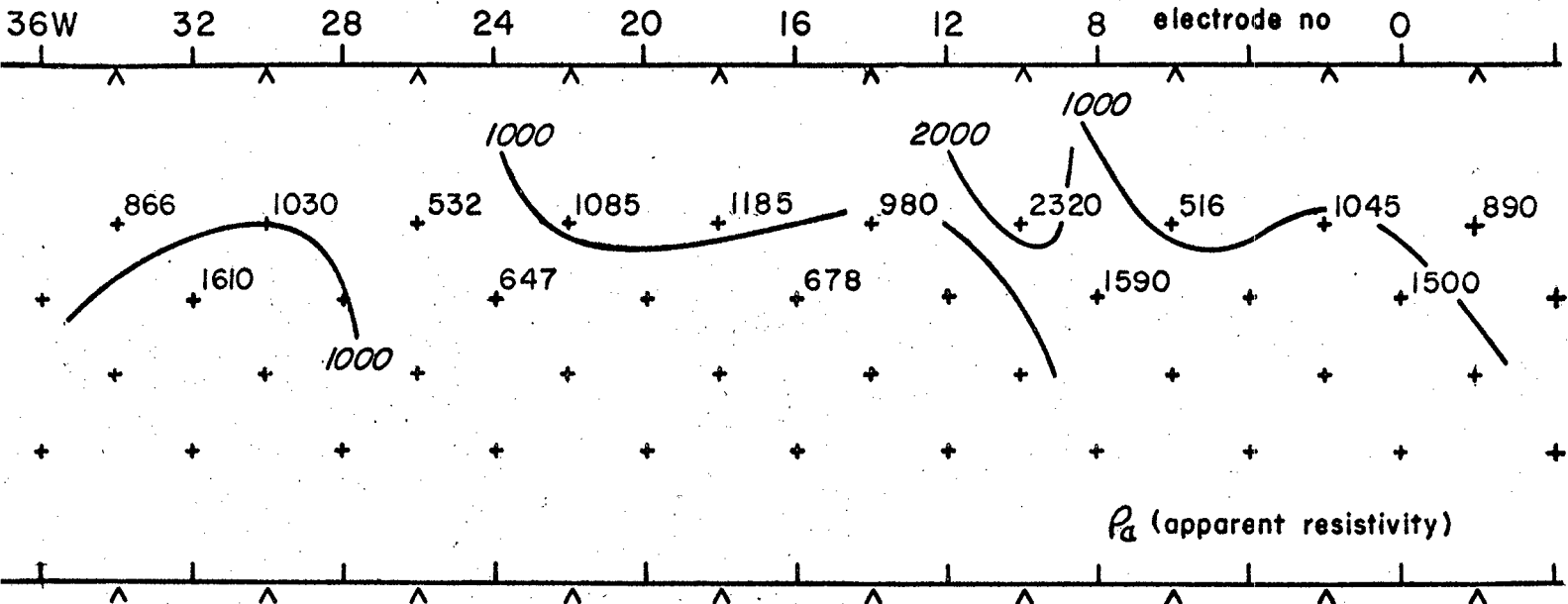
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

line location ZENITH I
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

location CANADA
 map ref. _____
 line no. 20N
 bearing _____

date _____



continued from sheet _____ on sheet _____

Department of
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NO. **2235** MAP.....

INDUCED POLARIZATION SURVEY

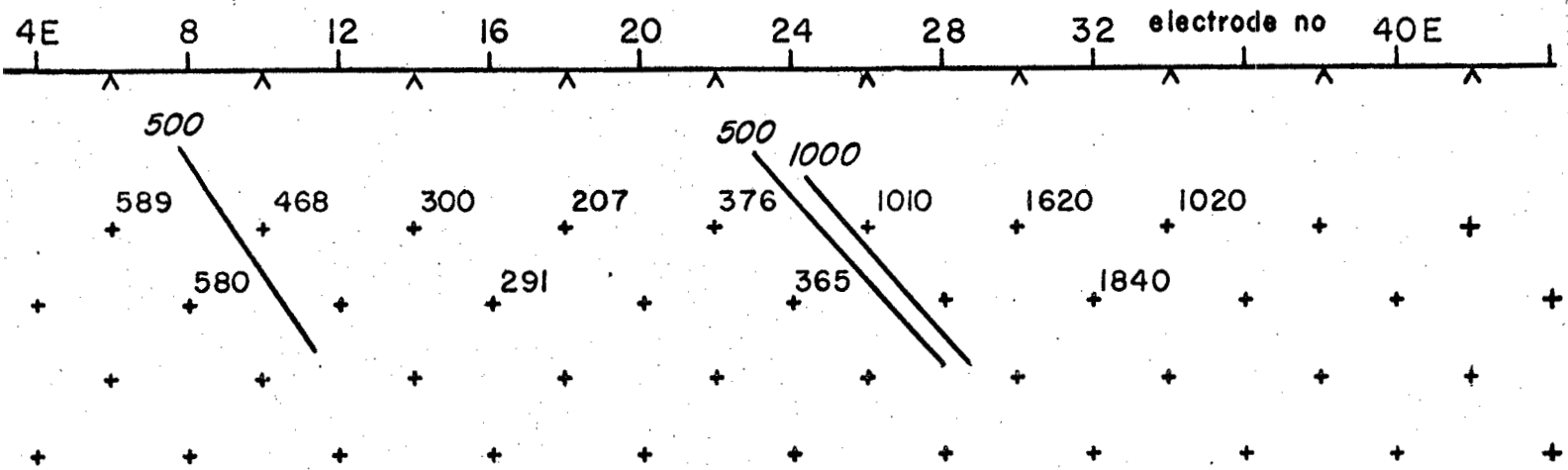
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

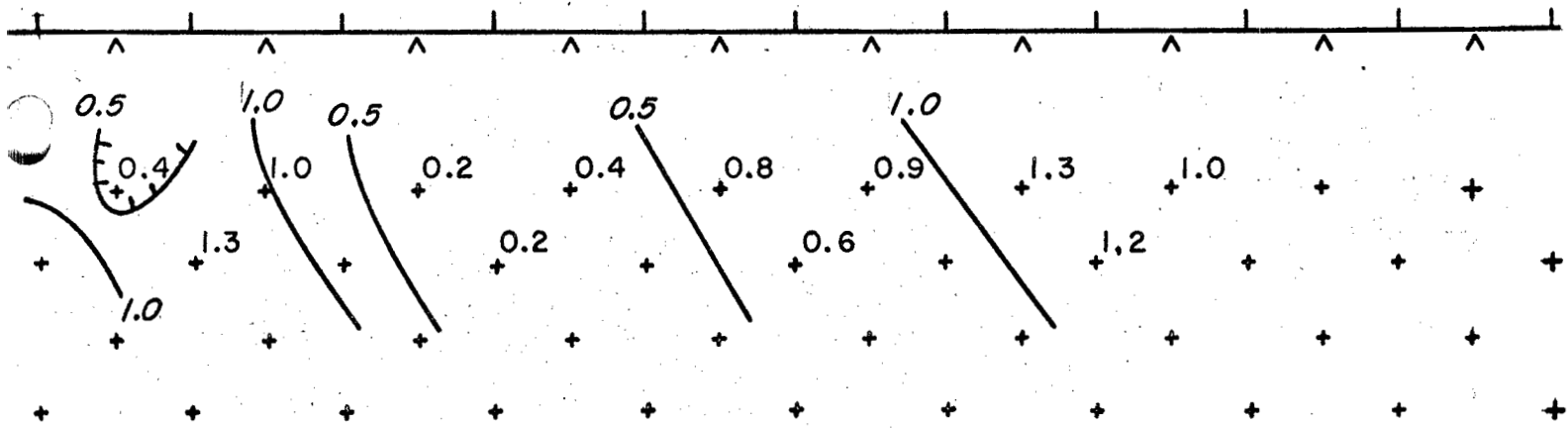
date _____

line location ZENITH I
 frequencies 3 8 .3 cps
 dipole length 400'
 operators _____

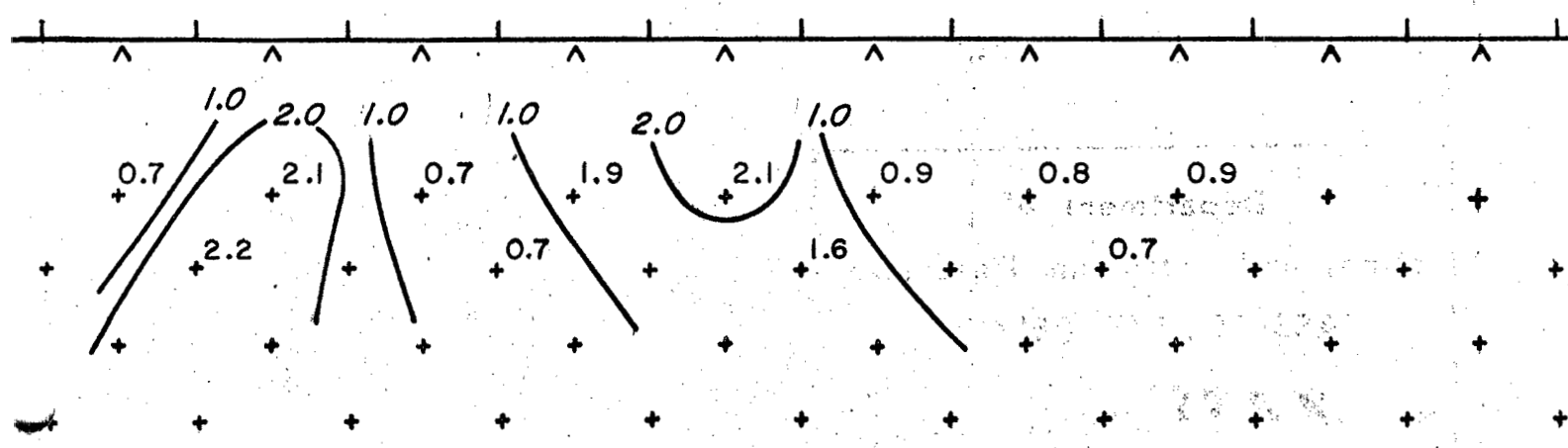
location CANADA
 map ref. _____
 line no. 20 N
 bearing _____



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** MAP

INDUCED POLARIZATION SURVEY

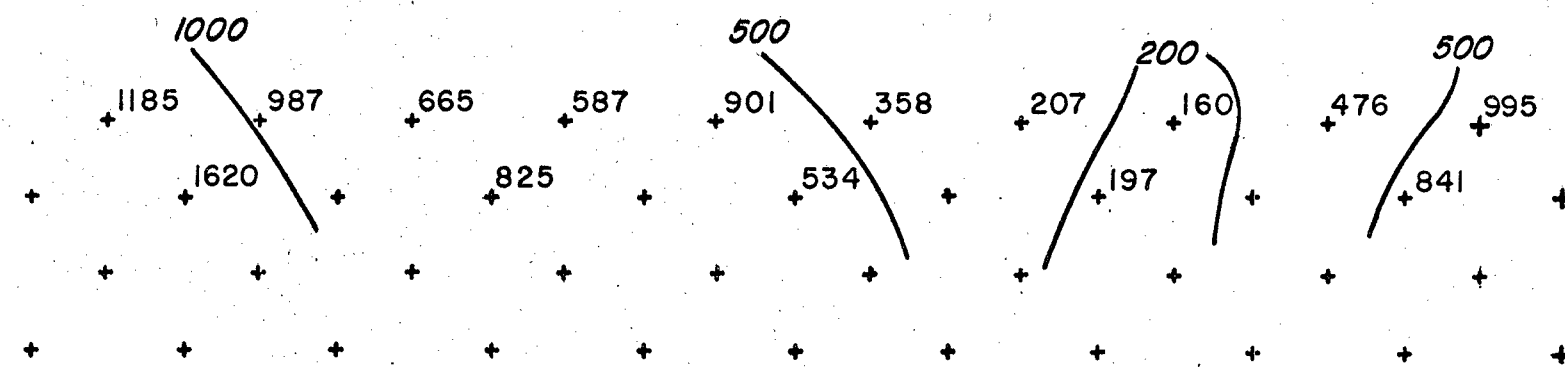
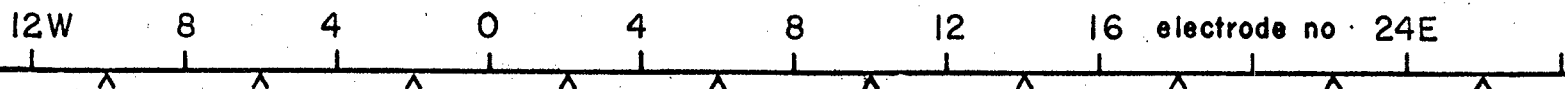
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

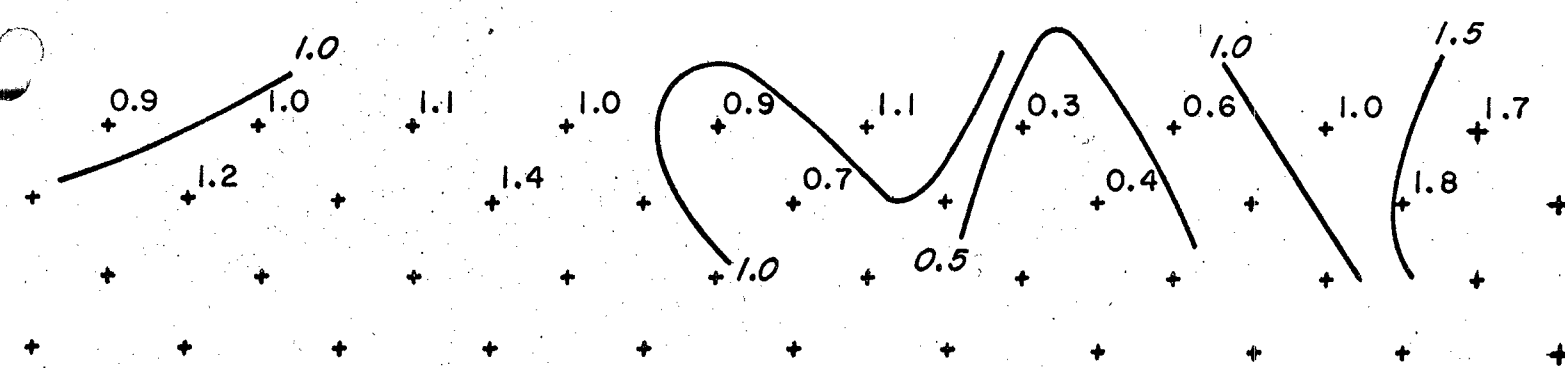
line location ZENITH I
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

location CANADA
 map ref. _____
 line no. 25N
 bearing _____

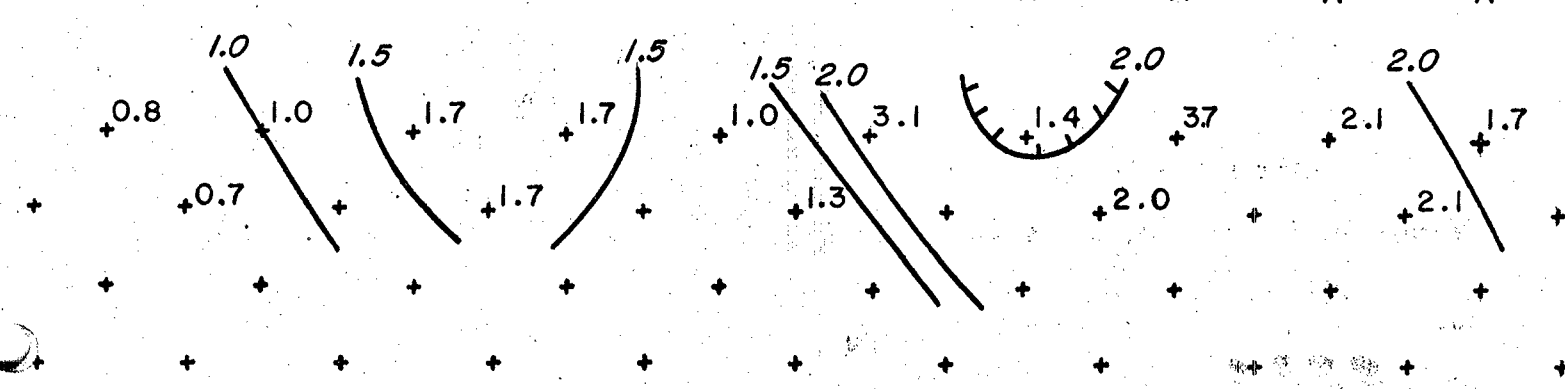
date _____



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
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NO. **2235** MAP

INDUCED POLARIZATION SURVEY

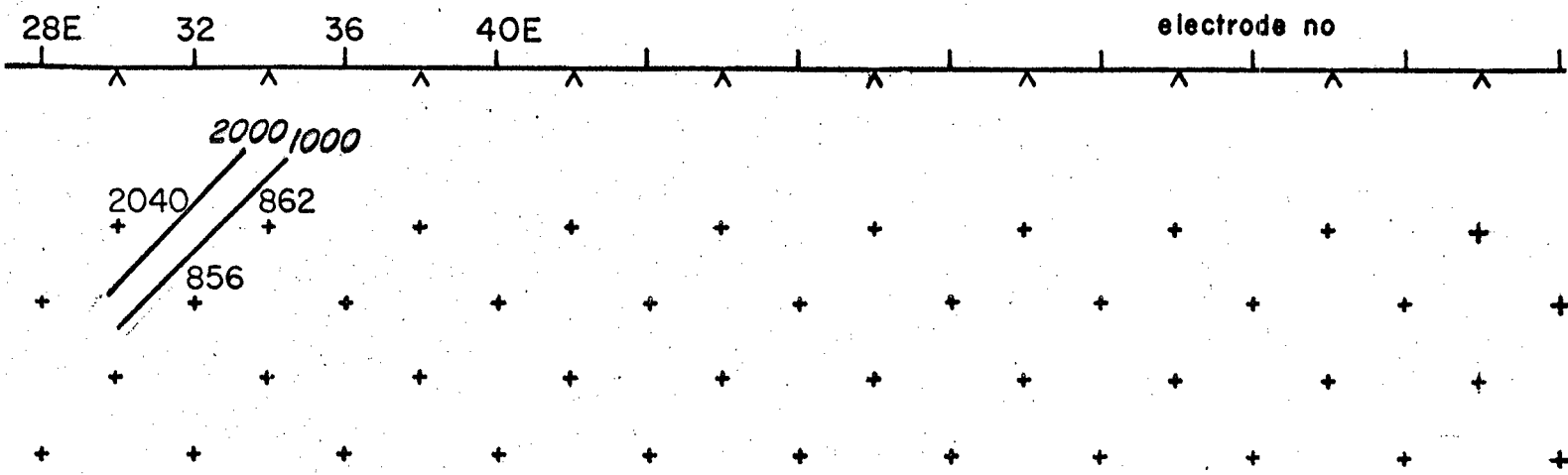
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

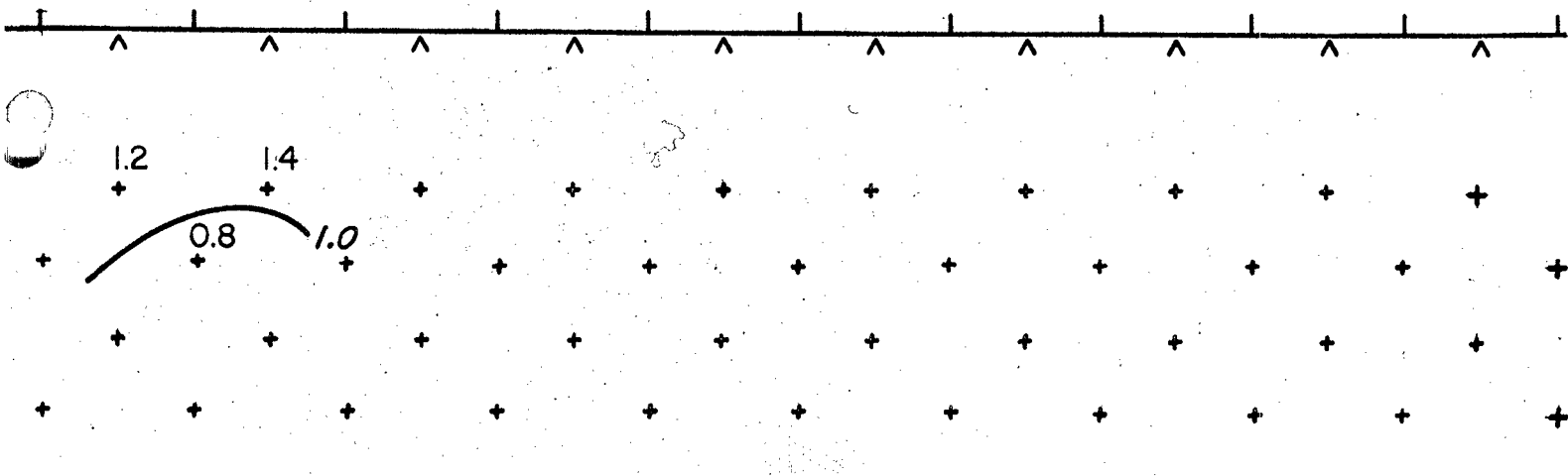
line location ZENITH I
frequencies 3 & .3 cps
dipole length 400'
operators _____

location CANADA
map ref. _____
line no. 25 N
bearing _____

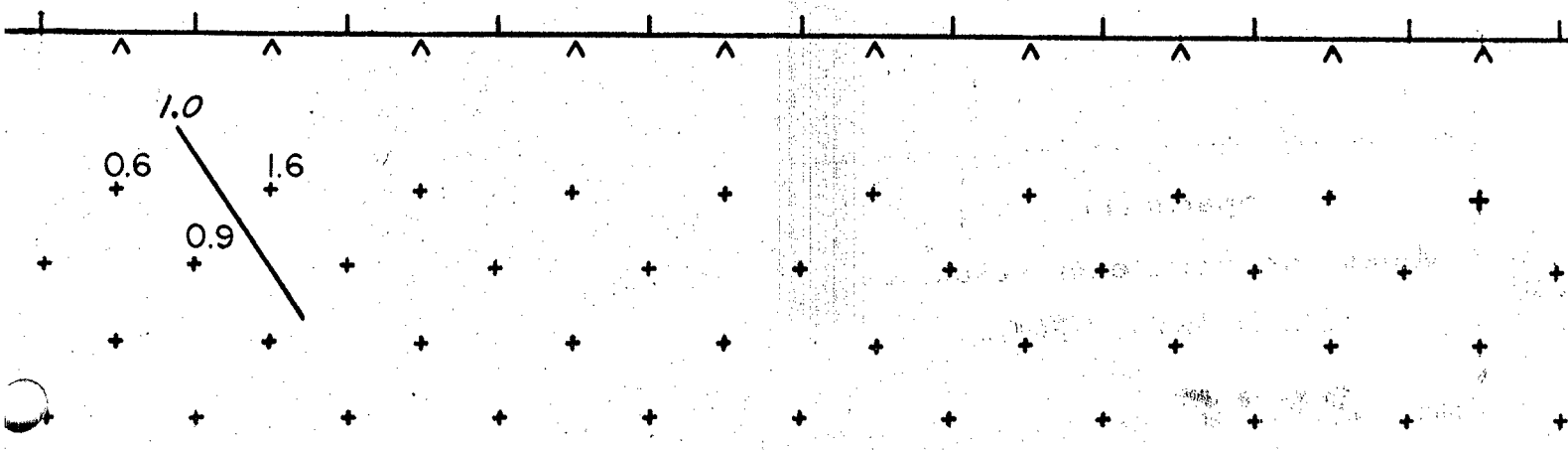
date _____



P_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
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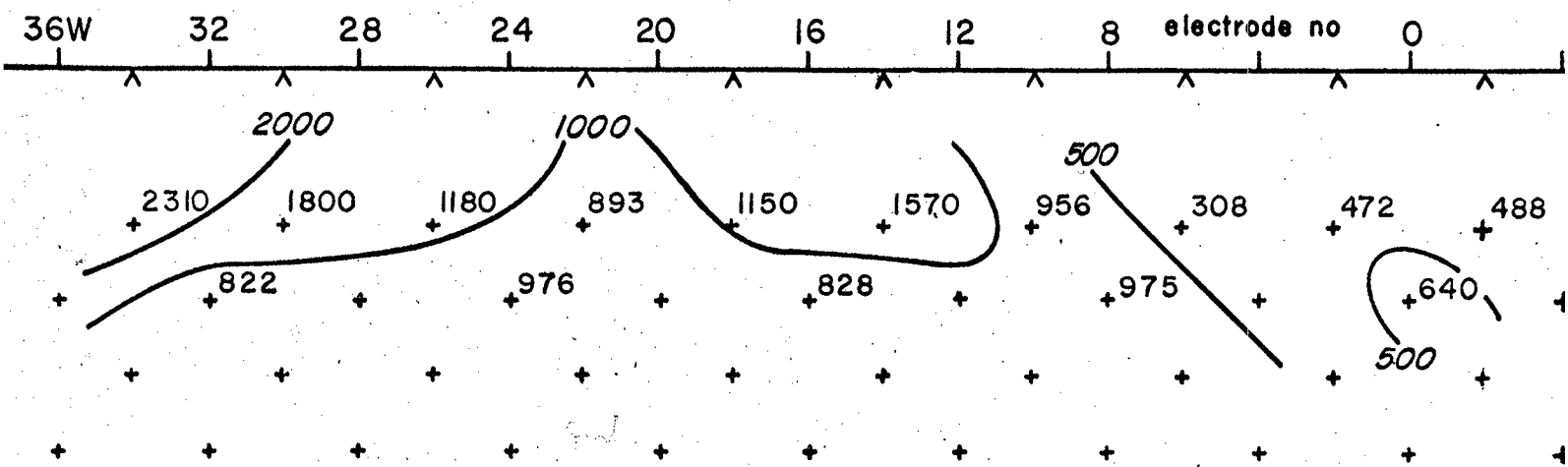
NO. **2235** MAP.....

INDUCED POLARIZATION SURVEY

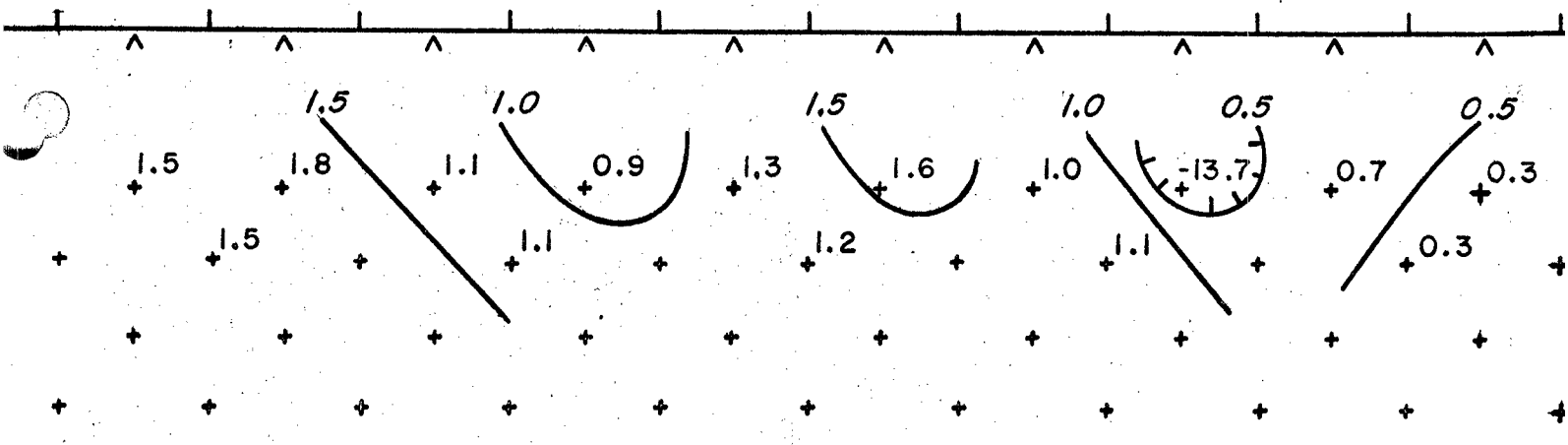
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

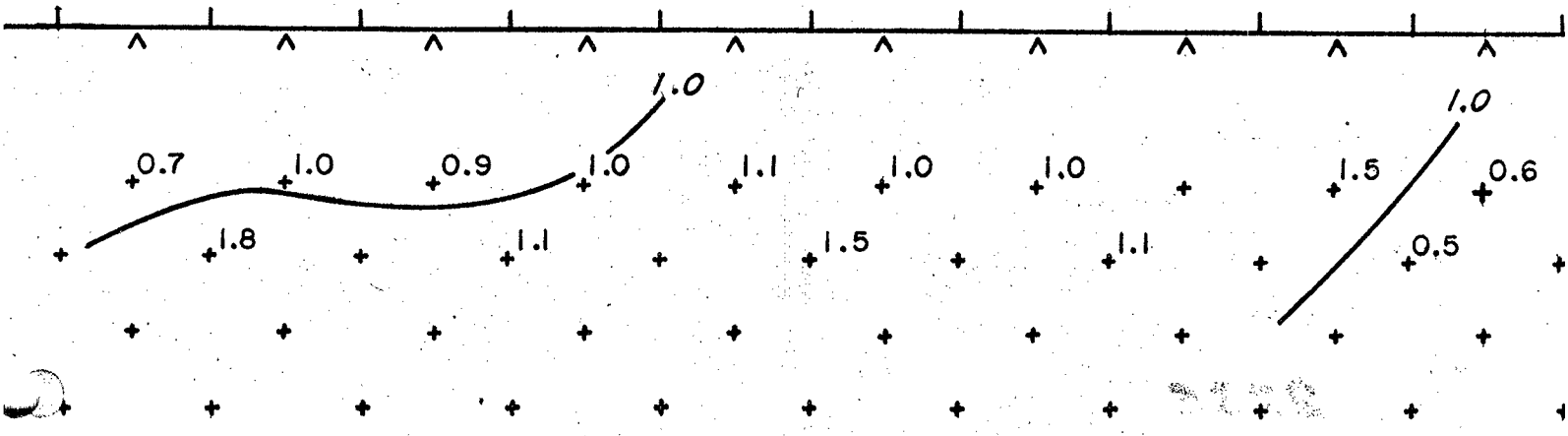
line location ZENITH I location CANADA date _____
 frequencies 3 8 .3 cps map ref. _____
 dipole length 400' line no. 30 N
 operators _____ bearing _____



P_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
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ANNUAL REPORT

NO. **2235** W&P

INDUCED POLARIZATION SURVEY

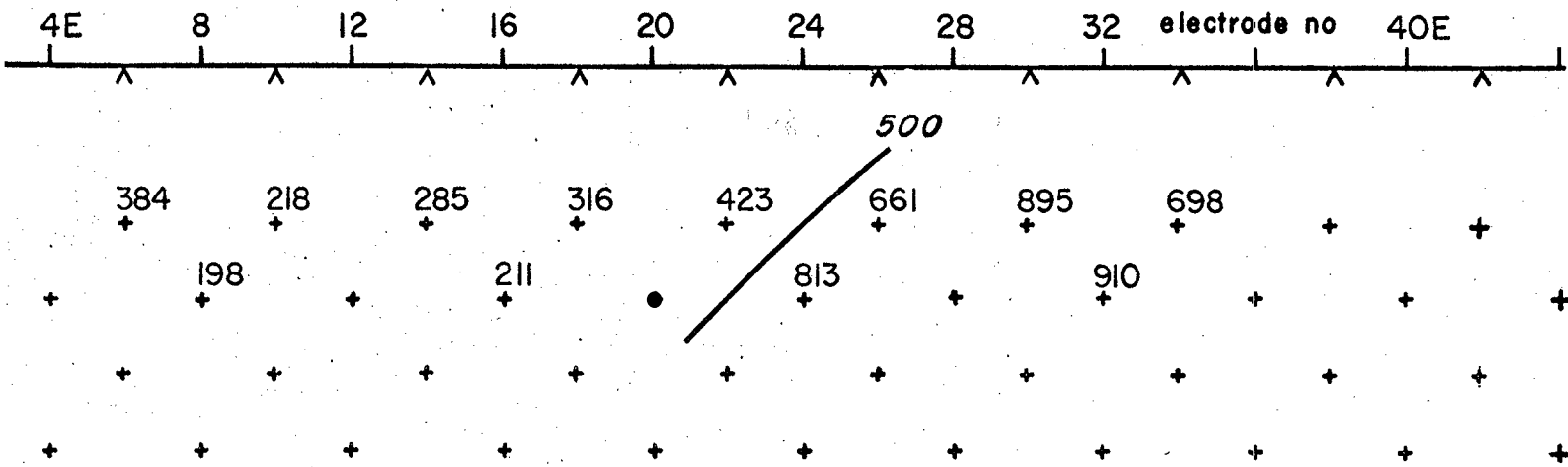
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

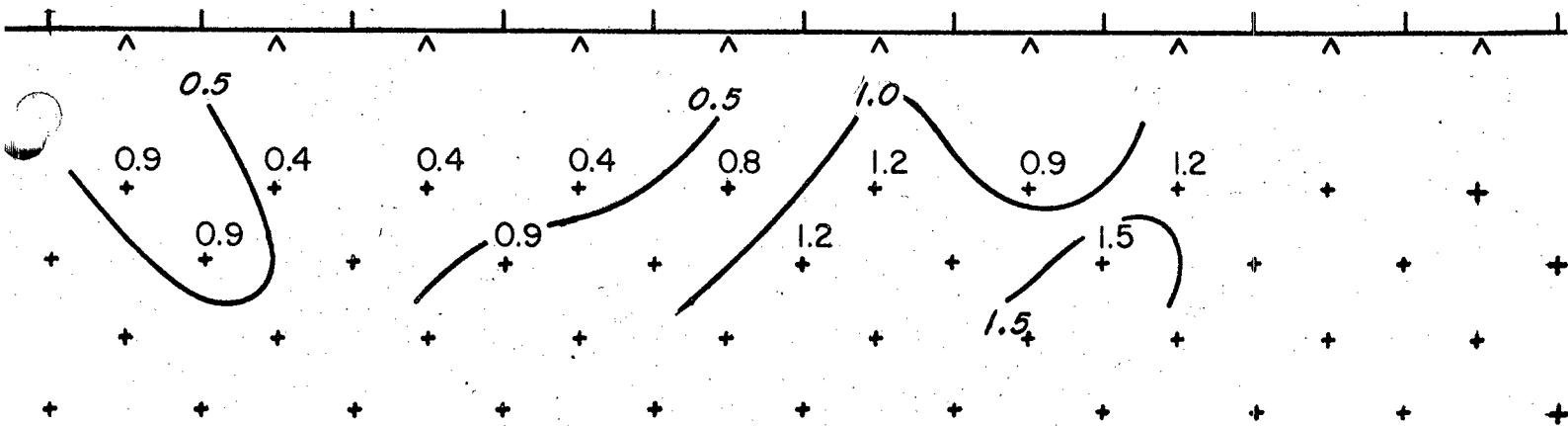
date _____

line location ZENITH I
 frequencies 3 8 .3 cps
 dipole length 400'
 operators _____

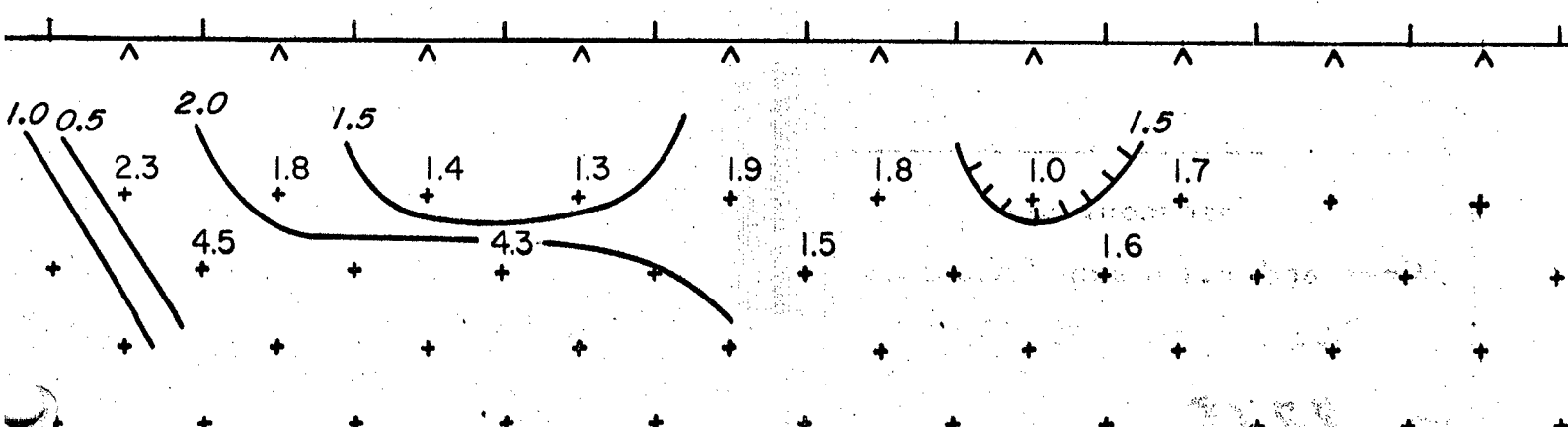
location _____
 map ref. _____
 line no. 30N
 bearing _____



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** MAP

INDUCED POLARIZATION SURVEY

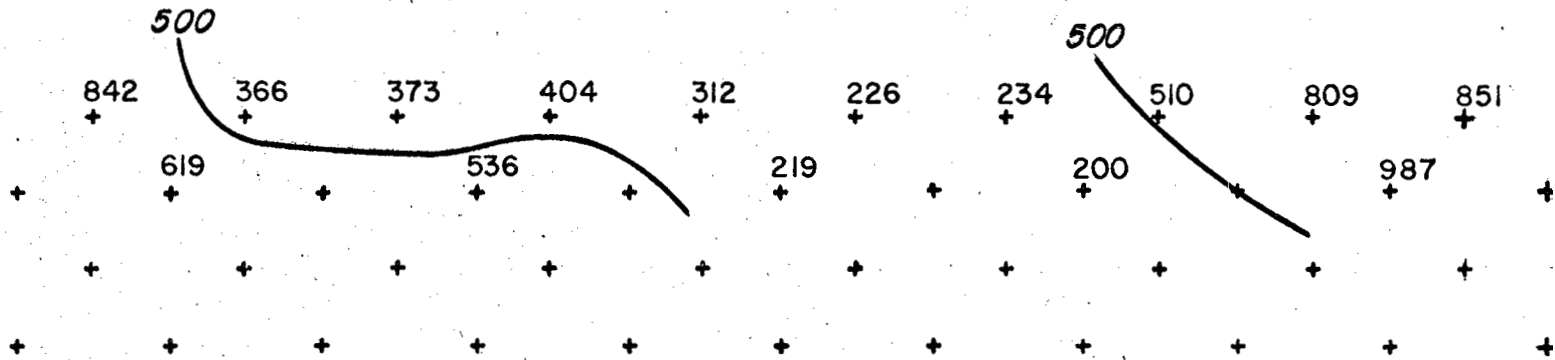
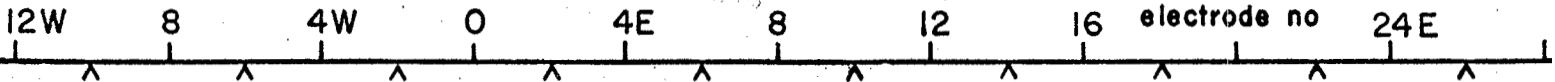
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

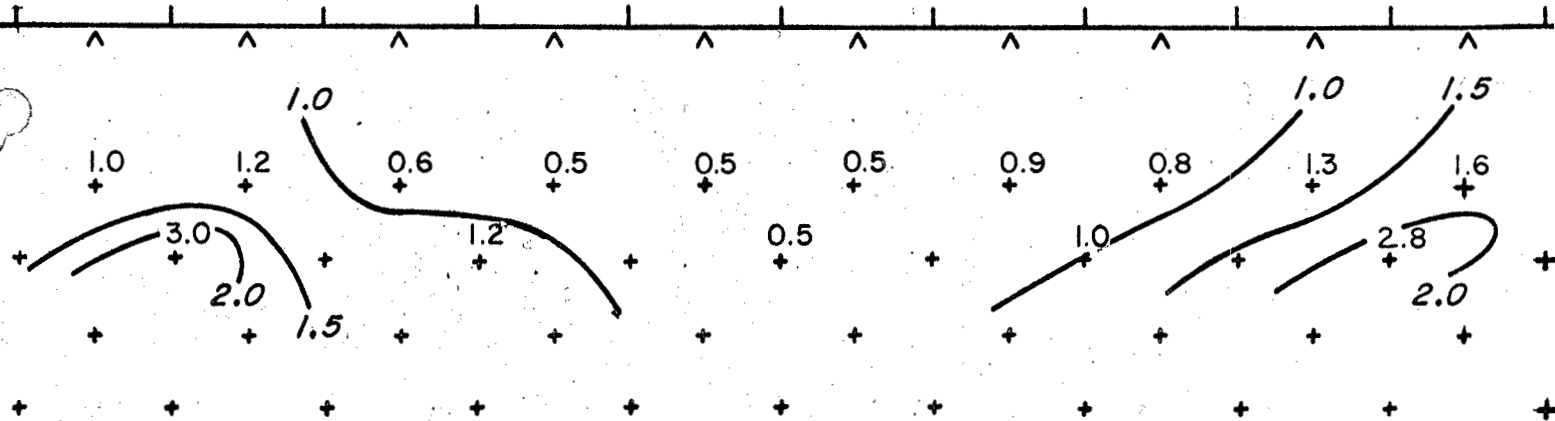
date _____

line location ZENITH I
 frequencies 3 8 .3 cps
 dipole length 400'
 operators _____

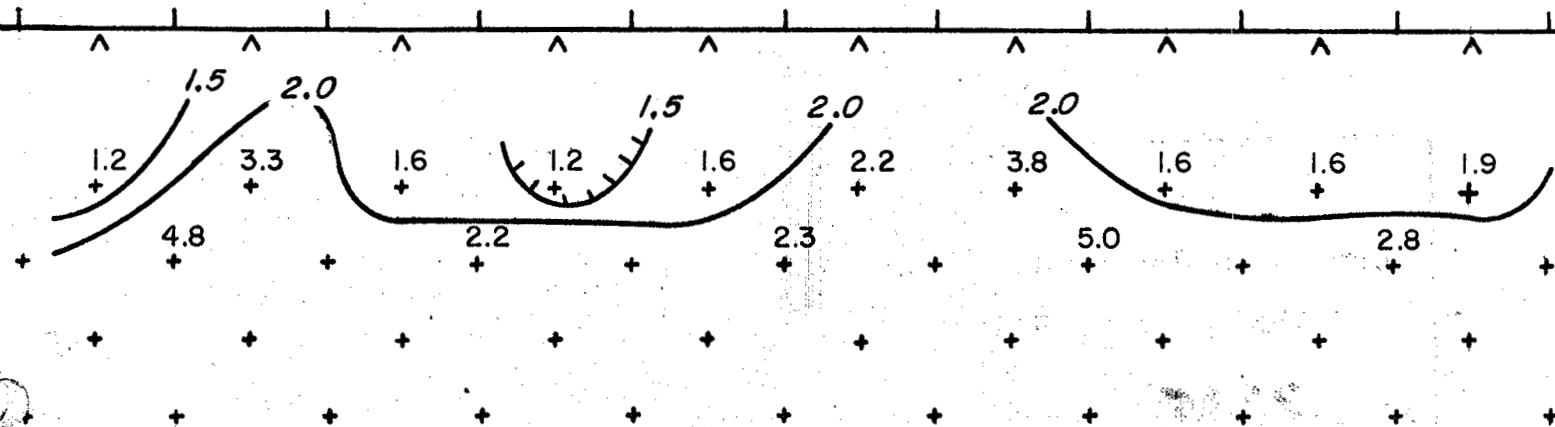
location _____
 map ref. _____
 line no. 35 N
 bearing _____



P_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** MAP

INDUCED POLARIZATION SURVEY

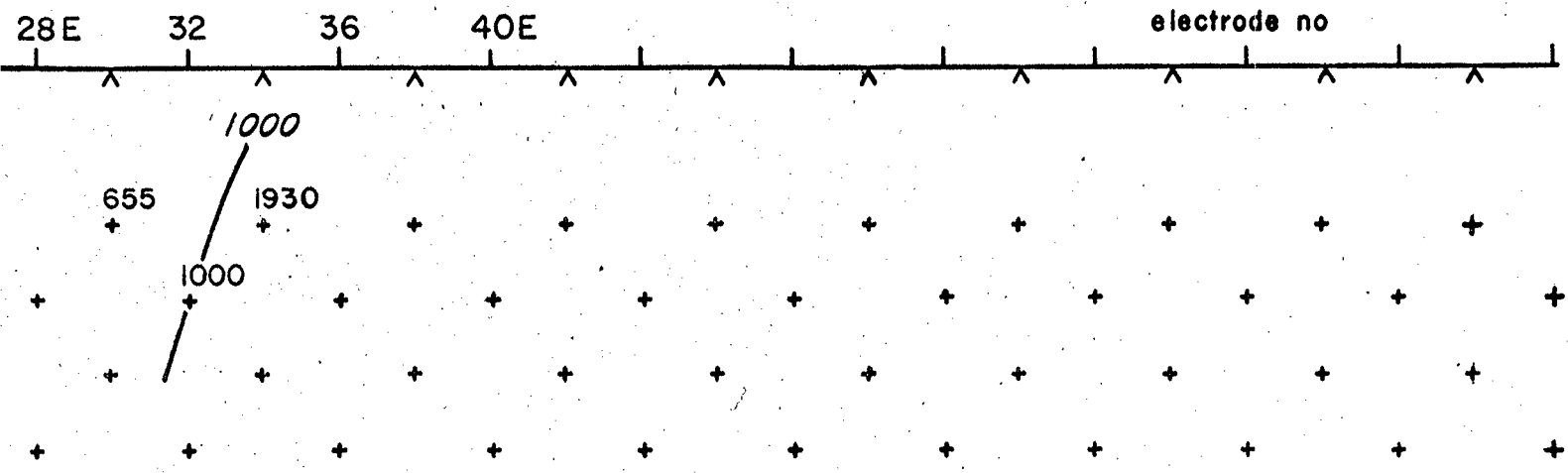
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

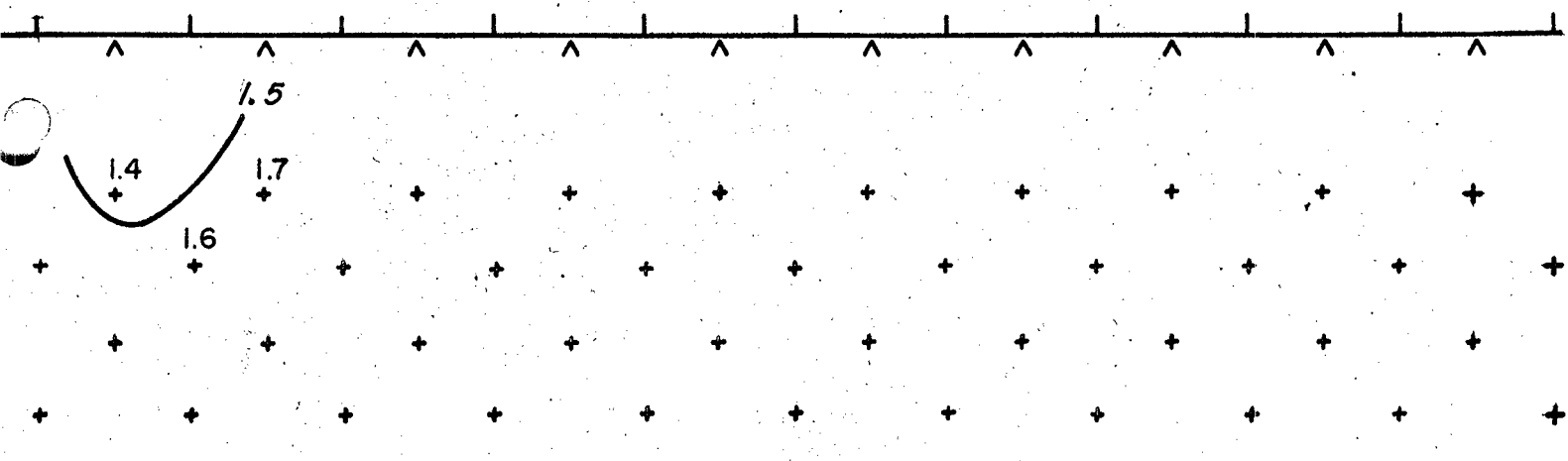
date _____

line location ZENITH I
frequencies 3 & 3 cps
dipole length 400'
operators _____

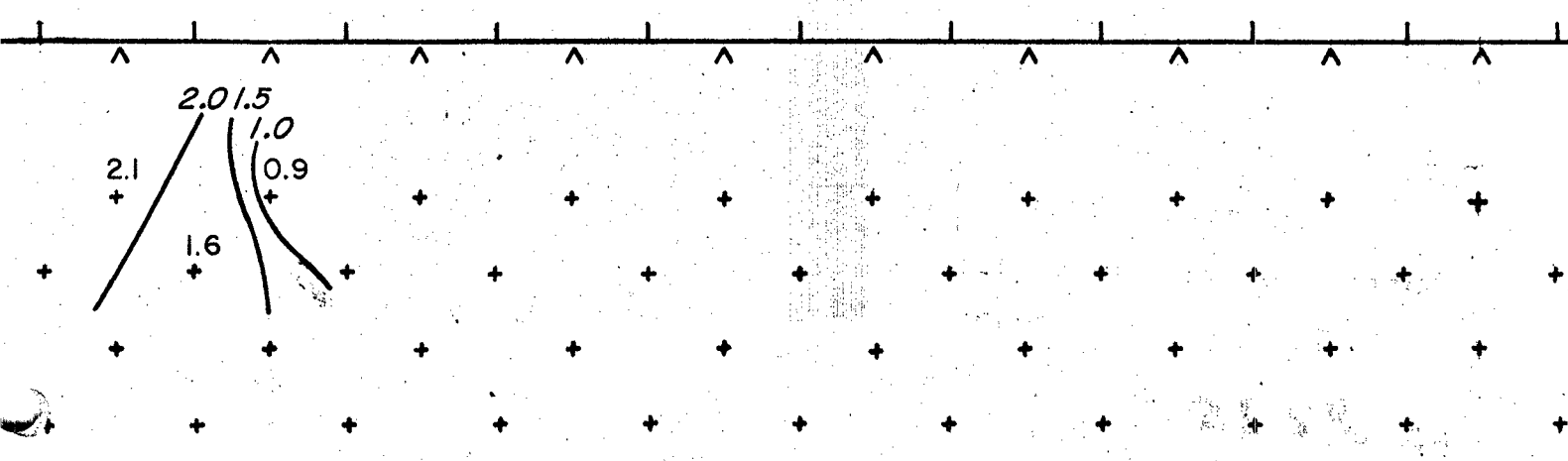
location _____
map ref. _____
line no. 35 N
bearing _____



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** MSP

INDUCED POLARIZATION SURVEY

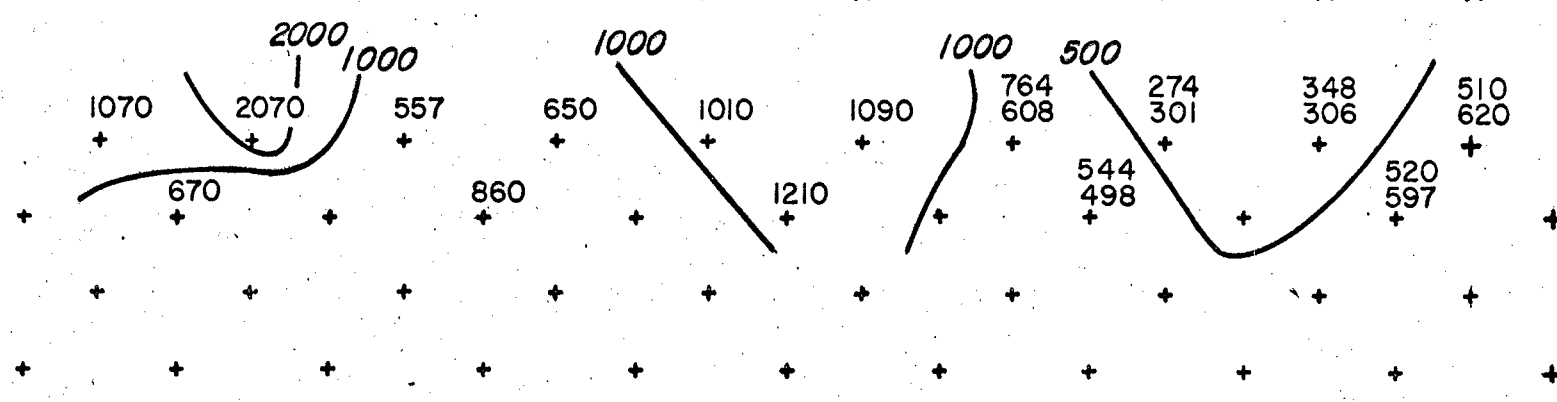
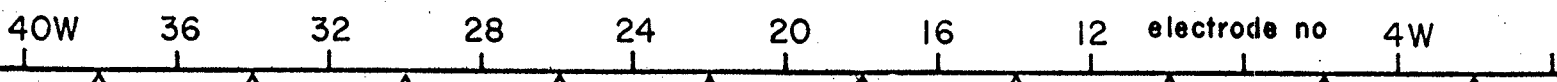
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

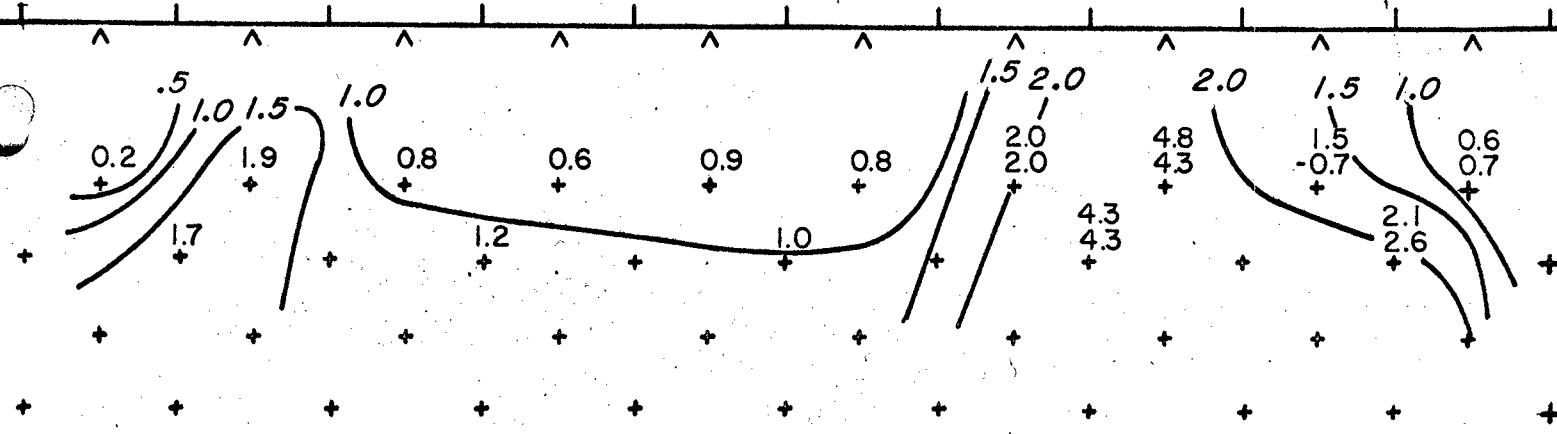
date _____

line location ZENITH I
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

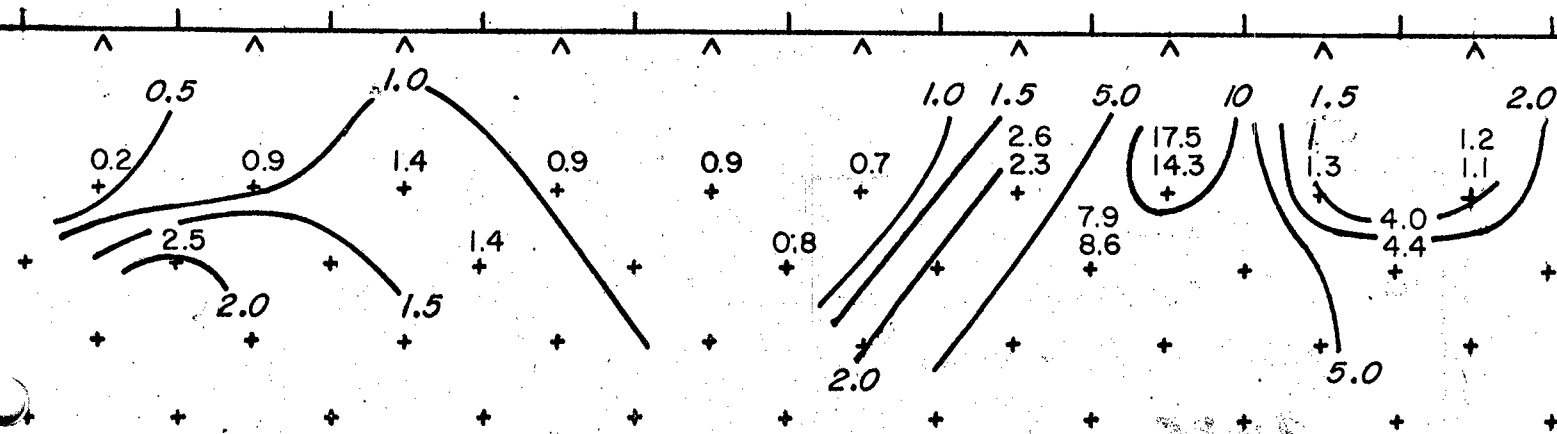
location _____
 map ref. _____
 line no. 40N
 bearing _____



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
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ASSESSMENT REPORT

NO. **2235** MAP

INDUCED POLARIZATION SURVEY

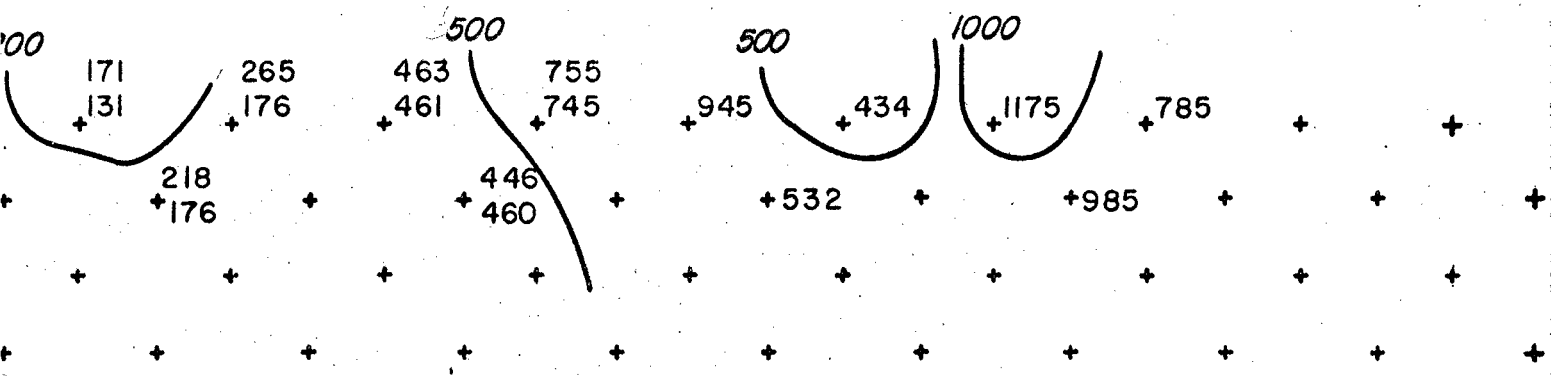
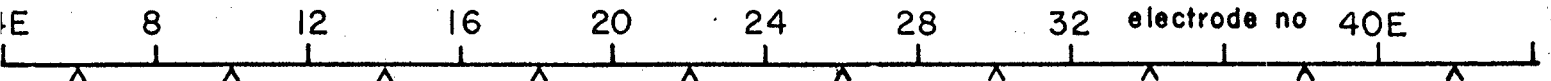
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

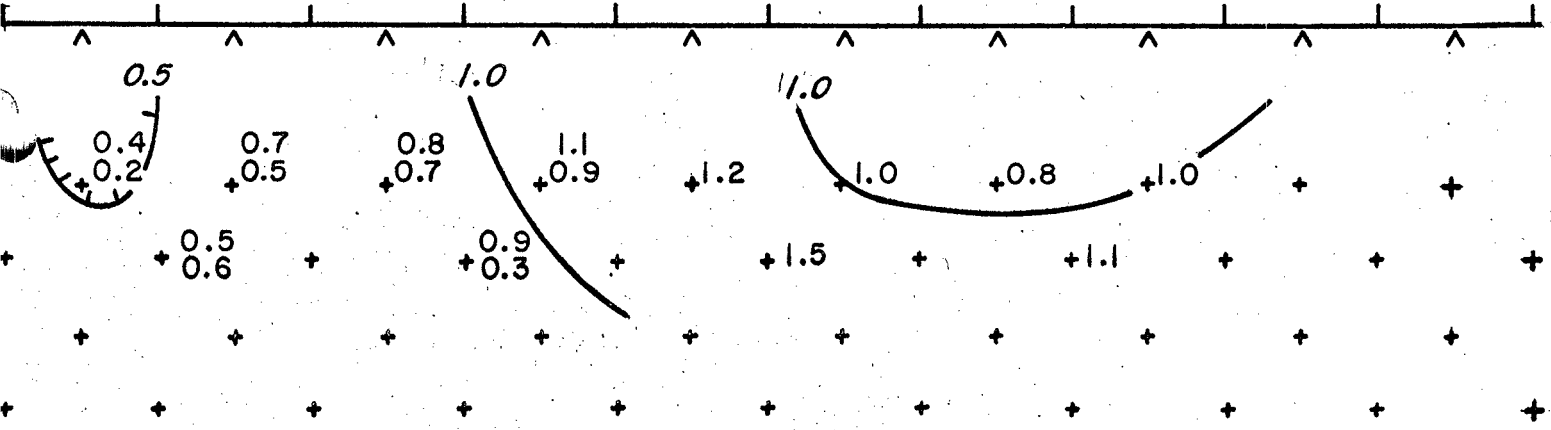
date _____

line location ZENITH I
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

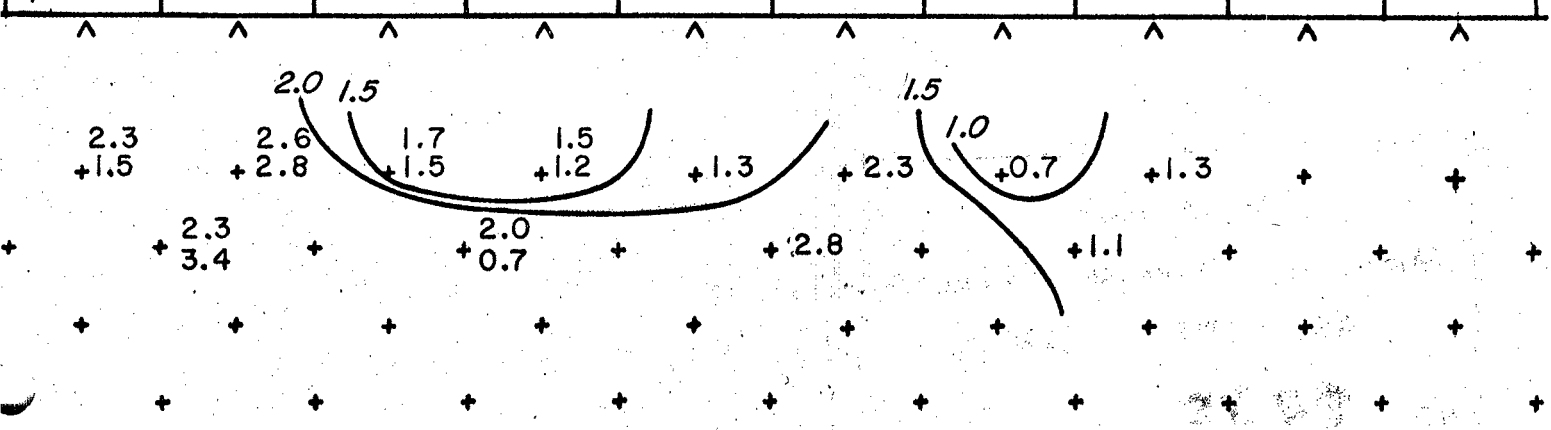
location CANADA
 map ref. _____
 line no. 40N
 bearing _____



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

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NO. **2235** MAP

INDUCED POLARIZATION SURVEY

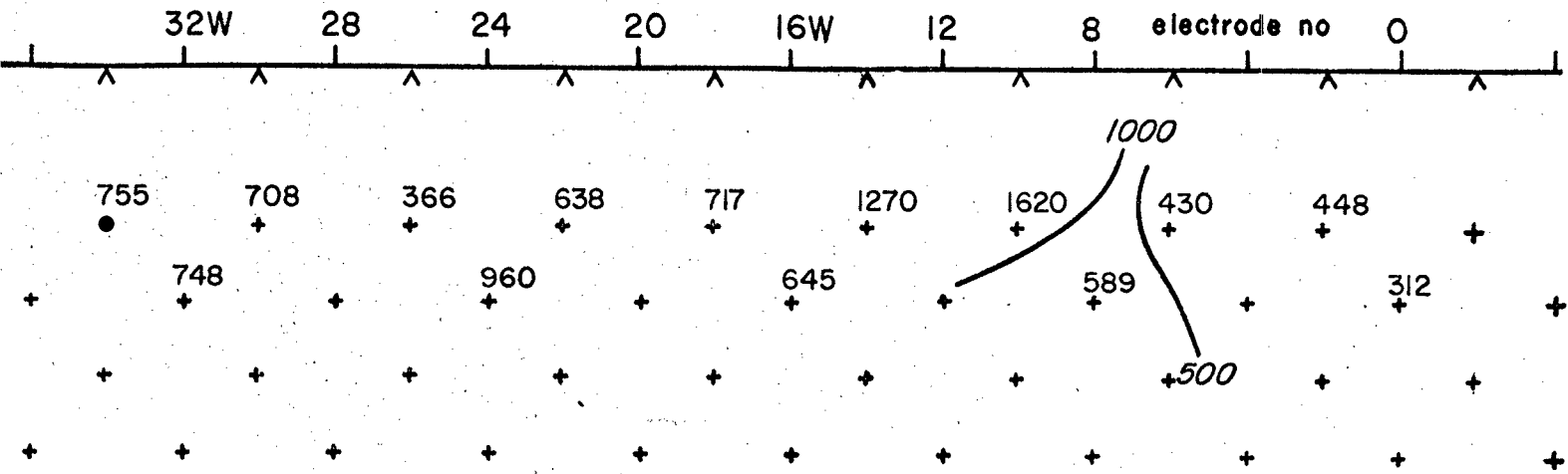
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

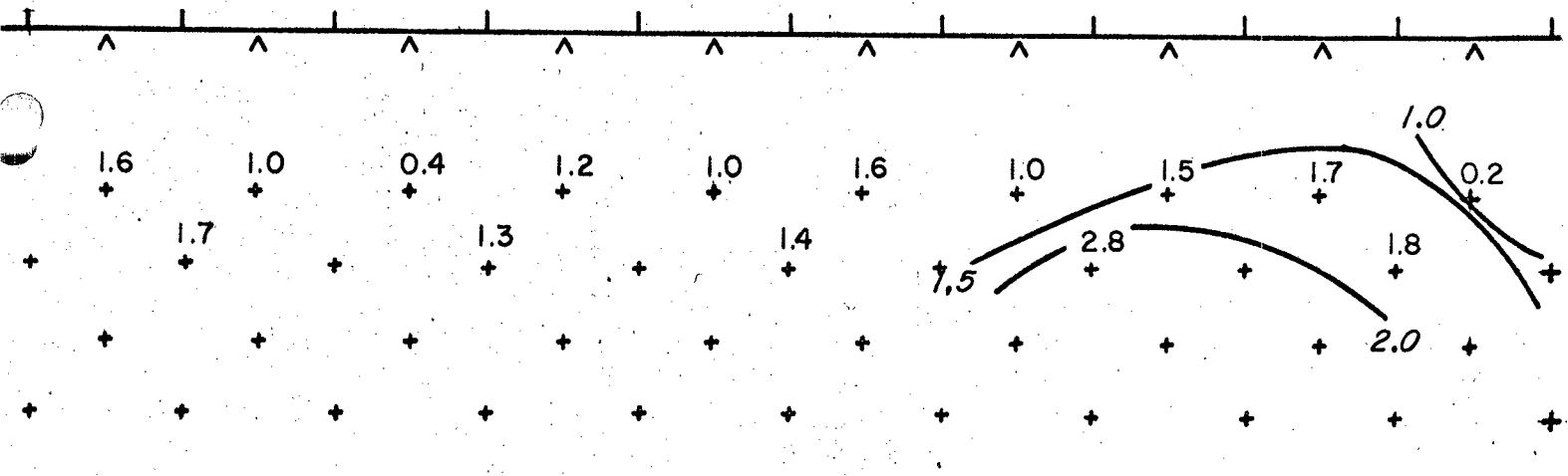
date _____

line location ZENITH I
 frequencies 3 8 .3 cps
 dipole length 400'
 operators _____

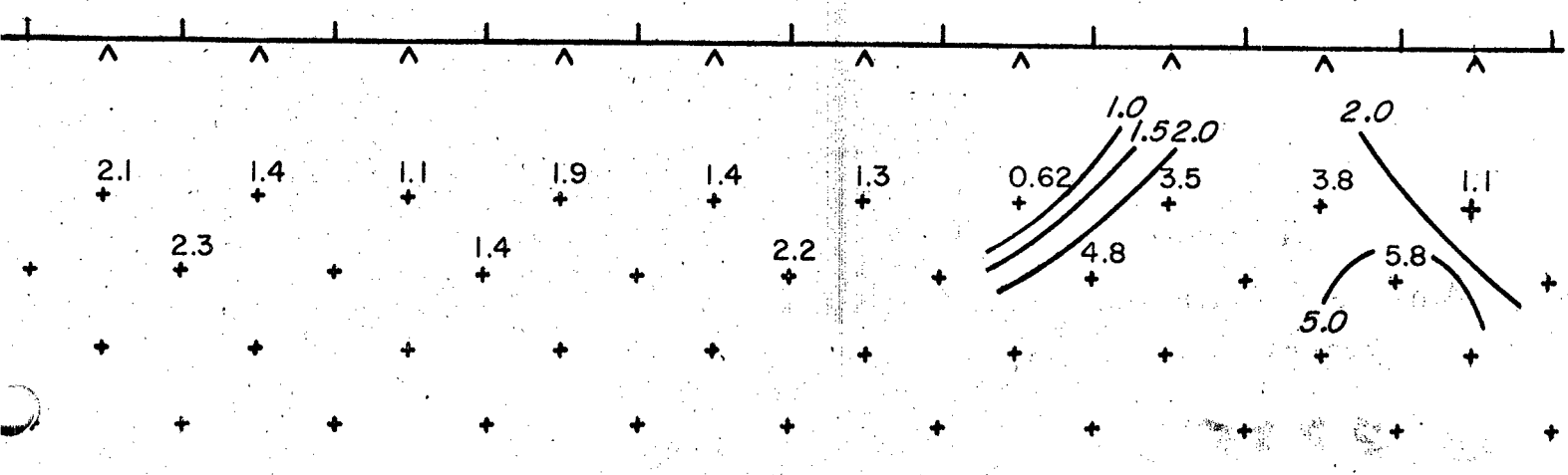
location _____
 map ref. _____
 line no. 45N
 bearing _____



P_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** MAP.....

INDUCED POLARIZATION SURVEY

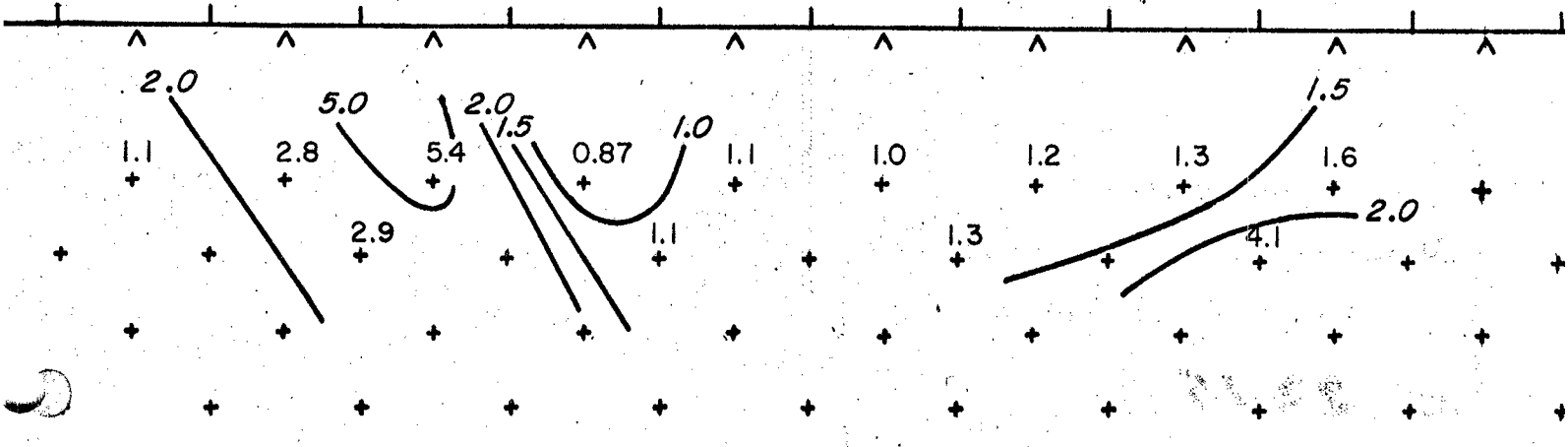
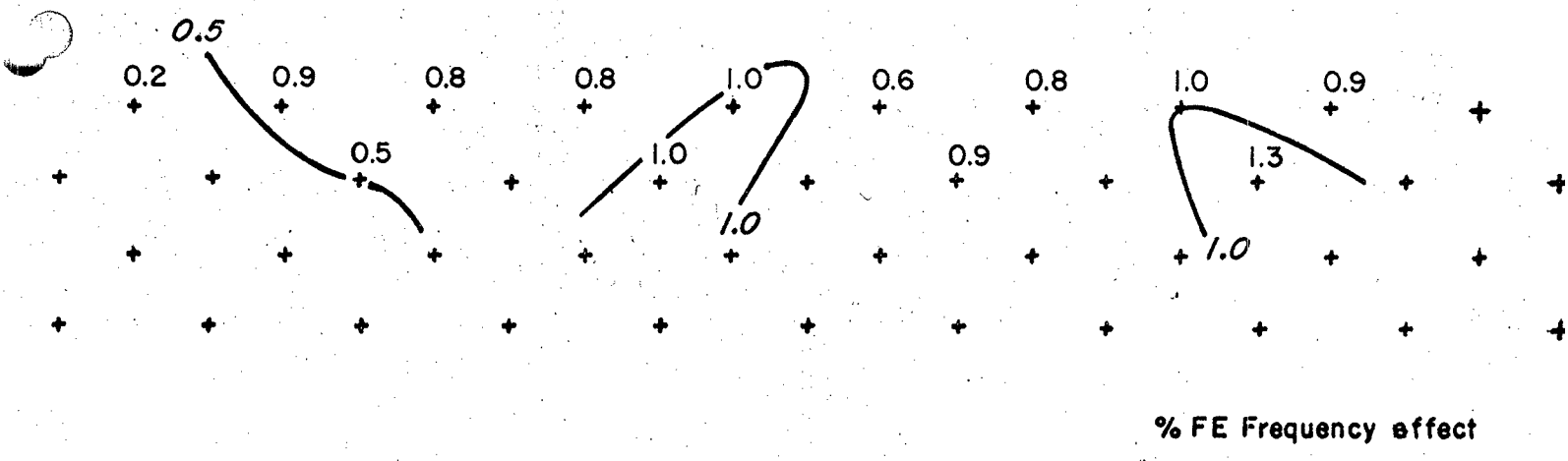
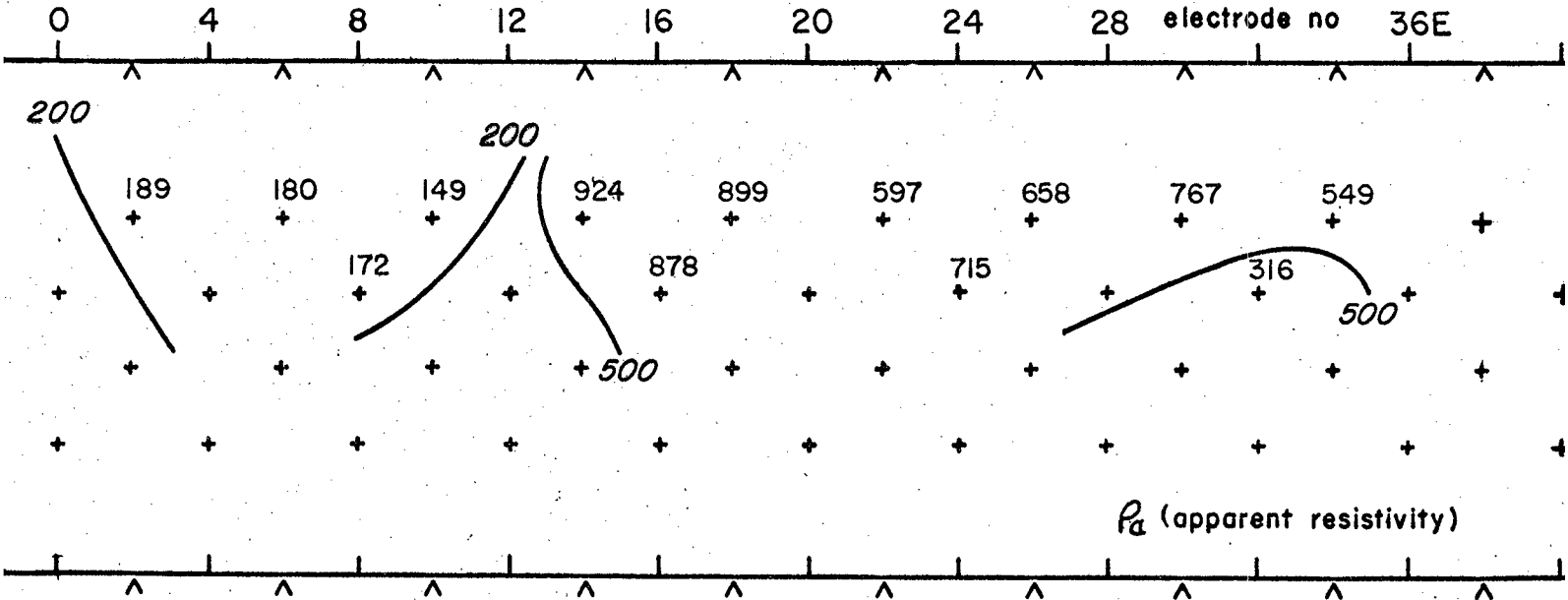
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

line location ZENITH I
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 45 N
 bearing _____



continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** M.P.

INDUCED POLARIZATION SURVEY

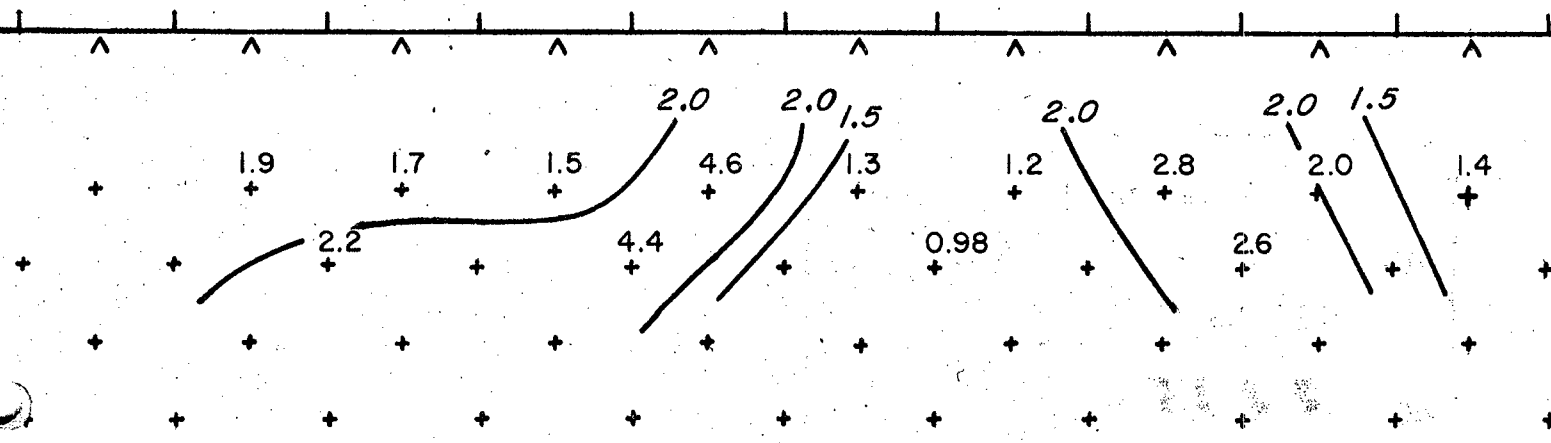
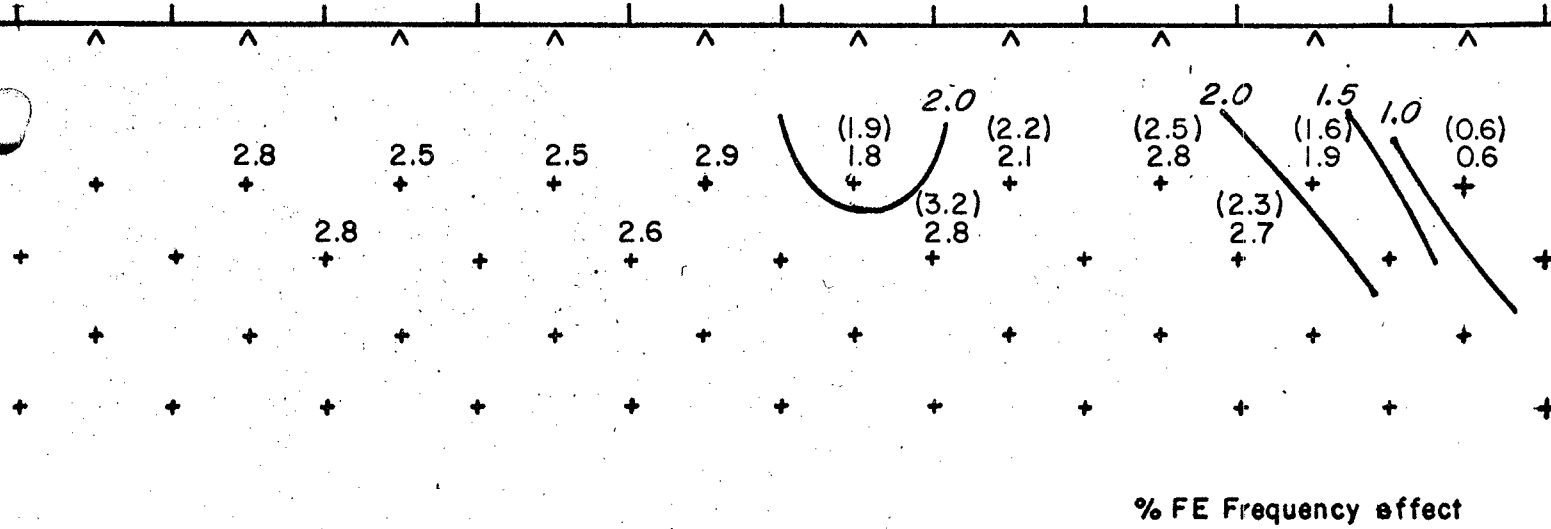
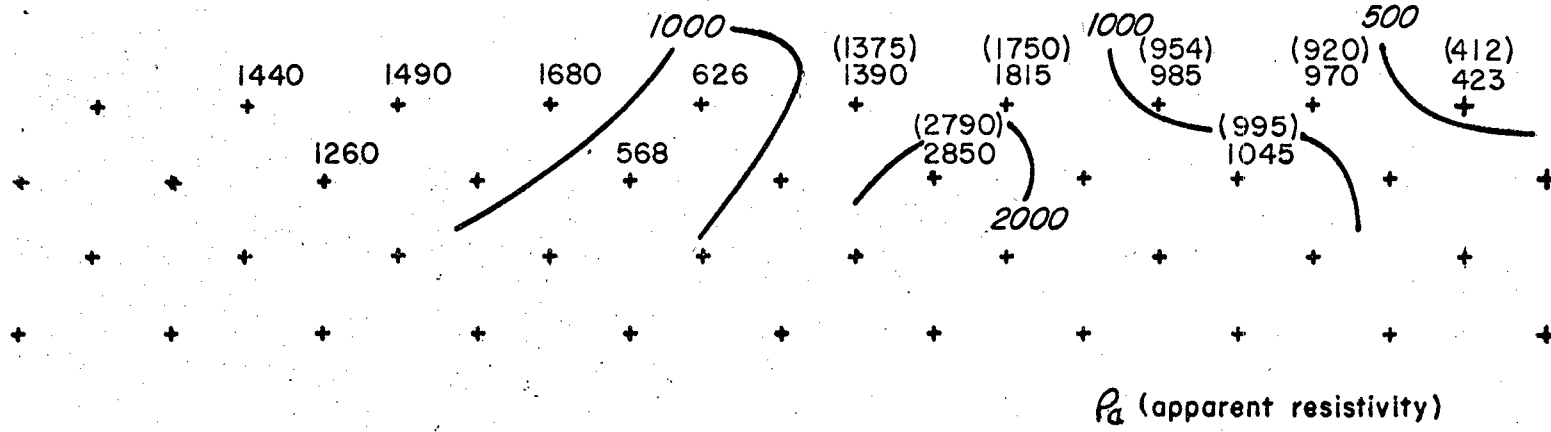
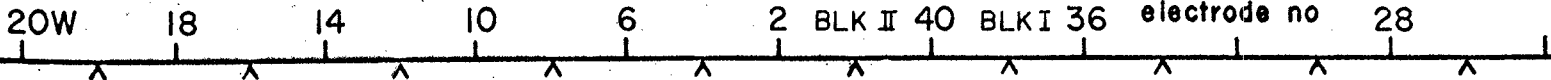
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

line location ZENITH I & II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 50 N
 bearing _____



Brackets denote readings at later date

continued from sheet _____ on sheet _____

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Mines and Petroleum Resources
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NO. **2235** M.P.

INDUCED POLARIZATION SURVEY

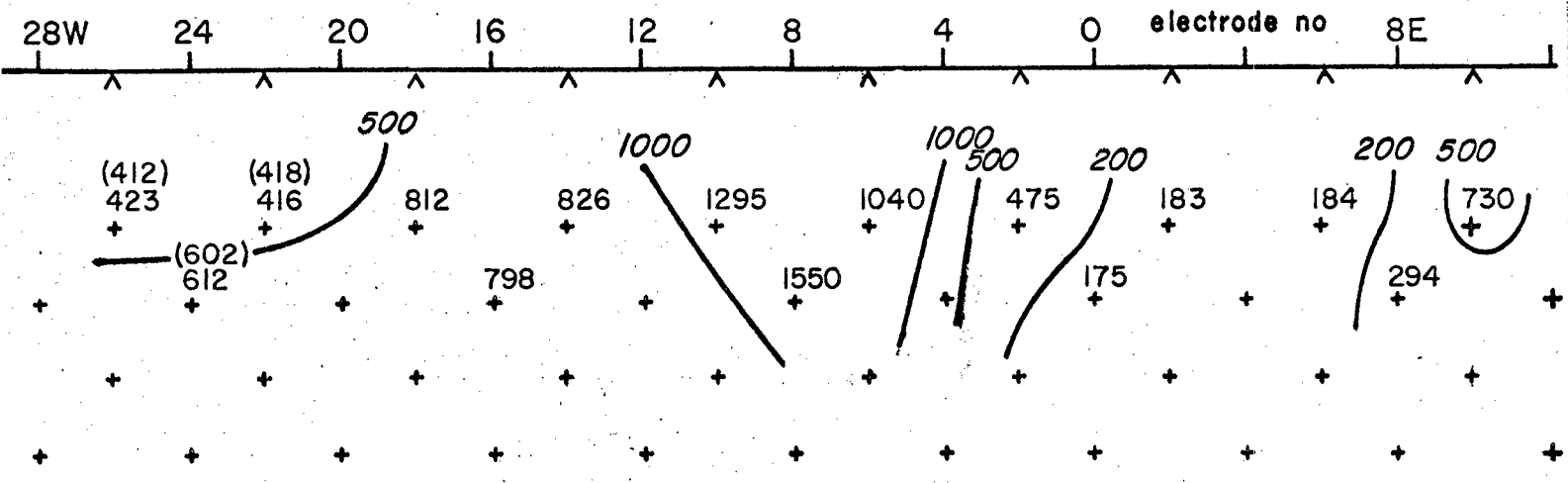
Geoscience Incorporated

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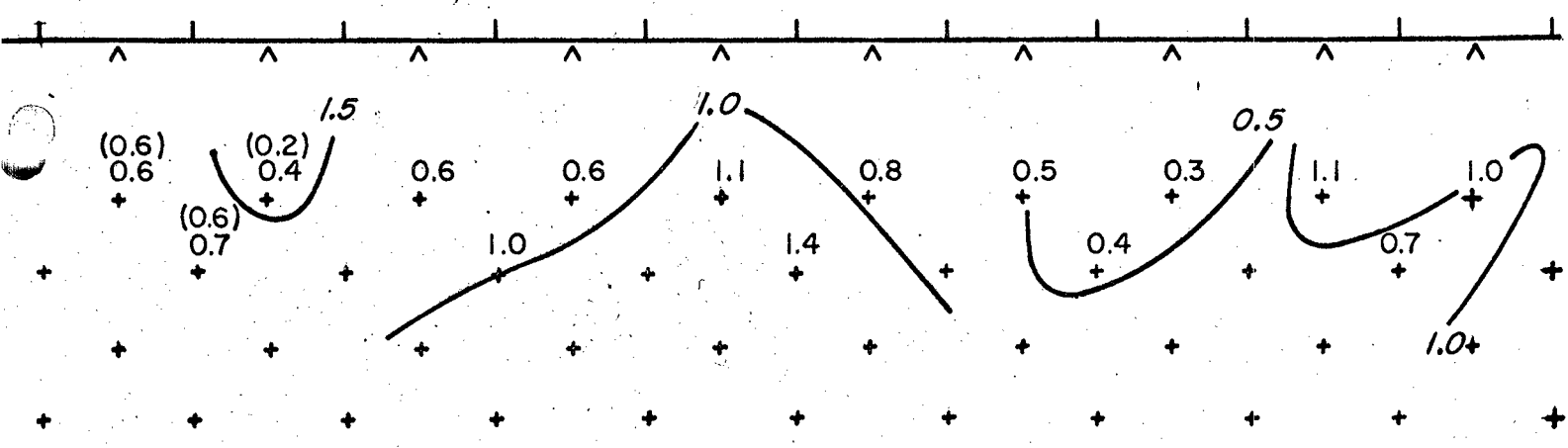
date _____

line location ZENITH I
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

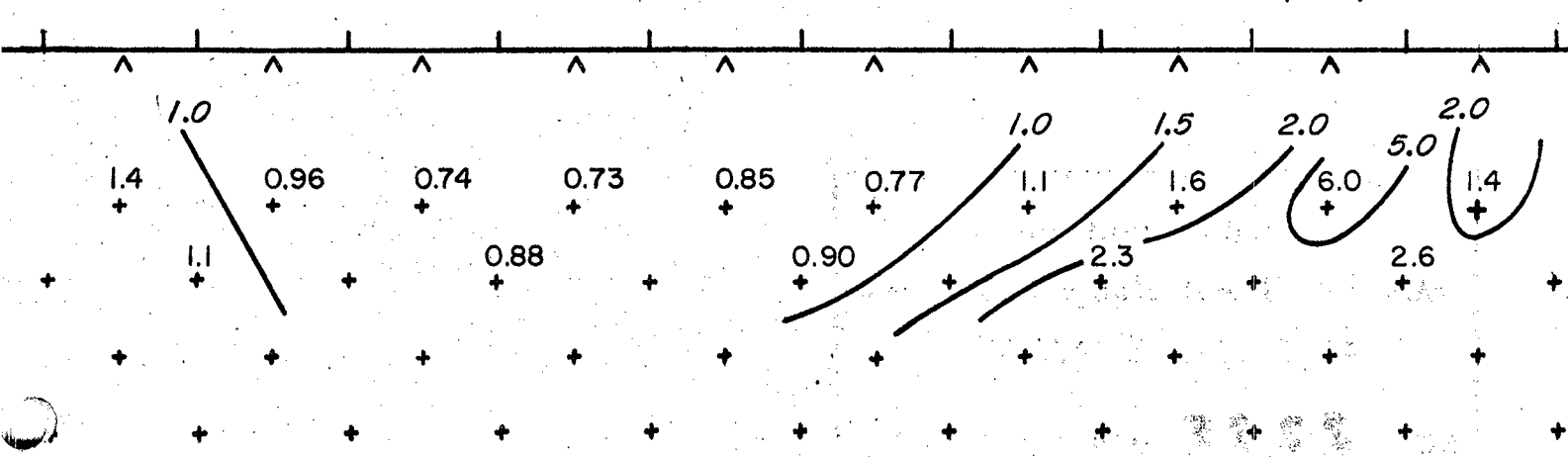
location _____
 map ref. _____
 line no. 50N
 bearing _____



ρ_a (apparent resistivity)



% FE Frequency effect



Brackets denote repeated readings at a later date

(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

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NO. **2235** MAP

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

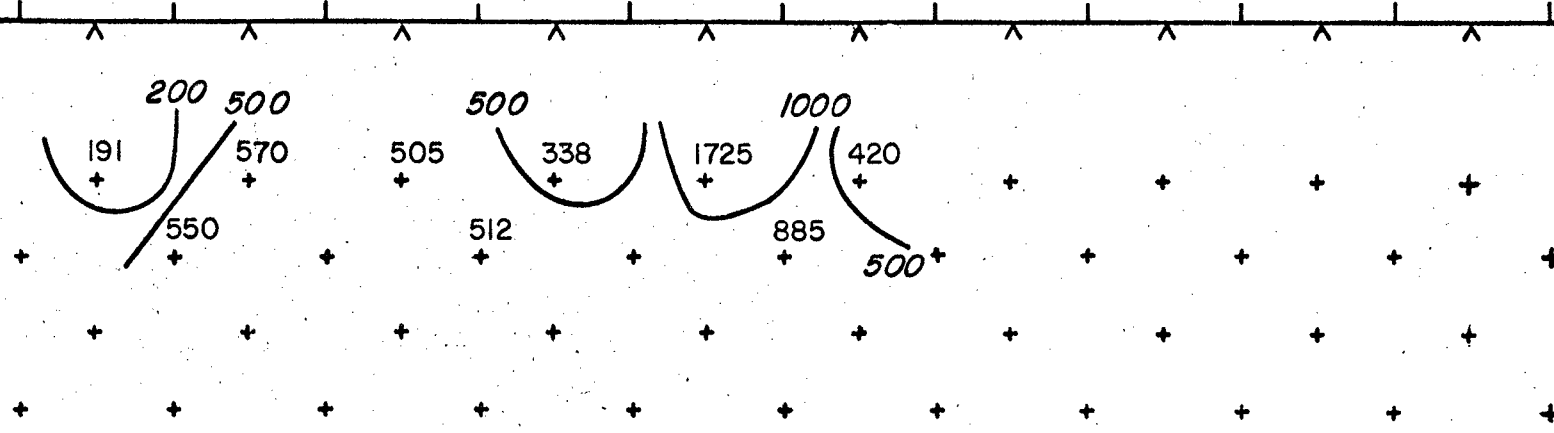
199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

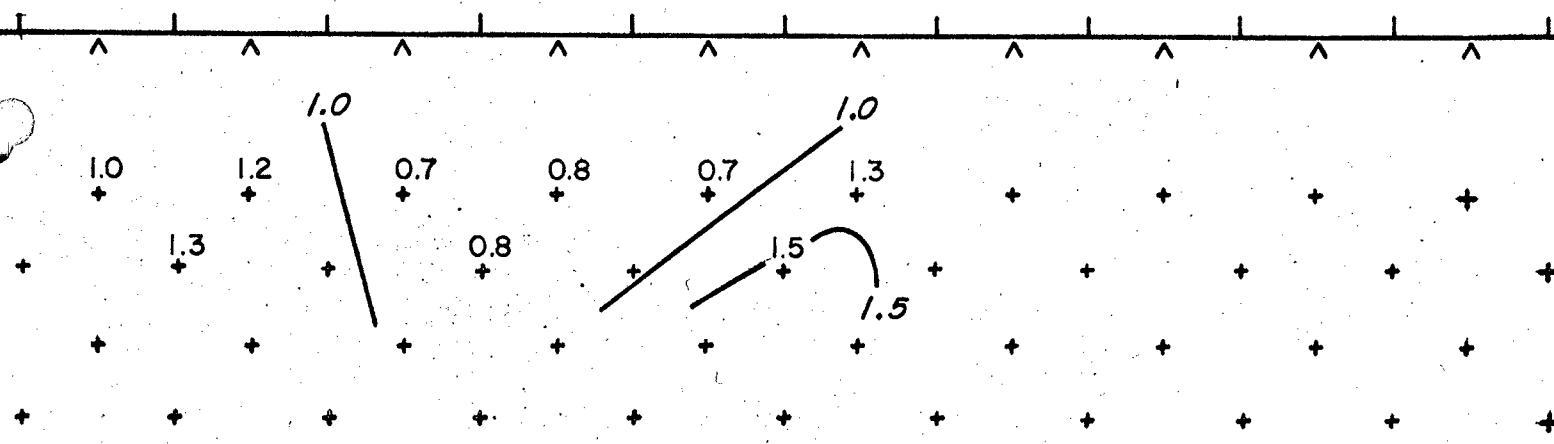
line location ZENITH I
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 50N
 bearing _____

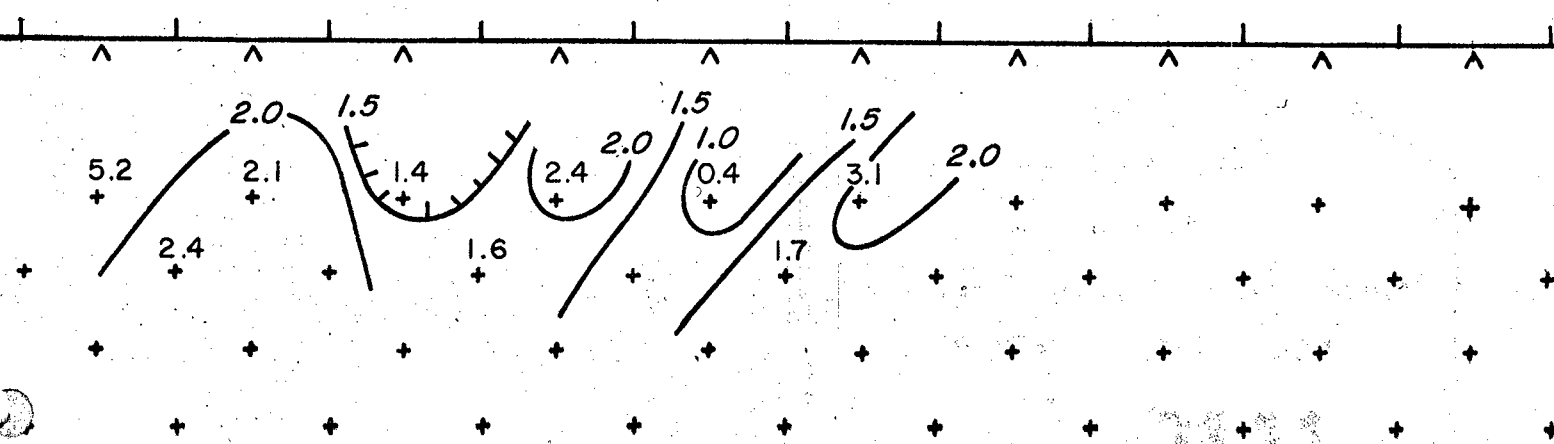
12E 16 20 24 28 32 36 40E electrode no



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
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NO. **2235** M.P.

INDUCED POLARIZATION SURVEY

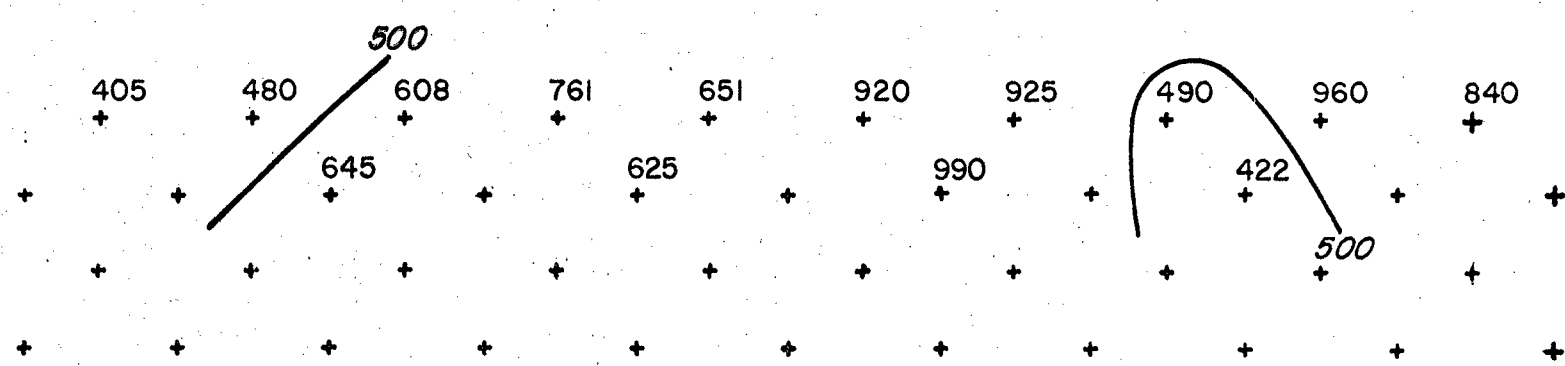
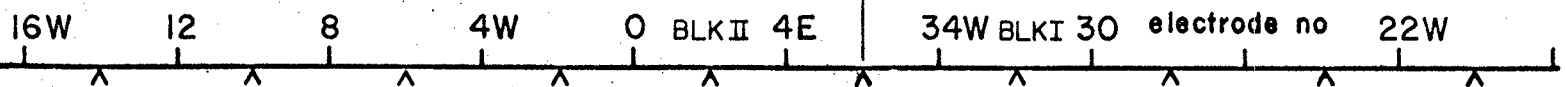
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

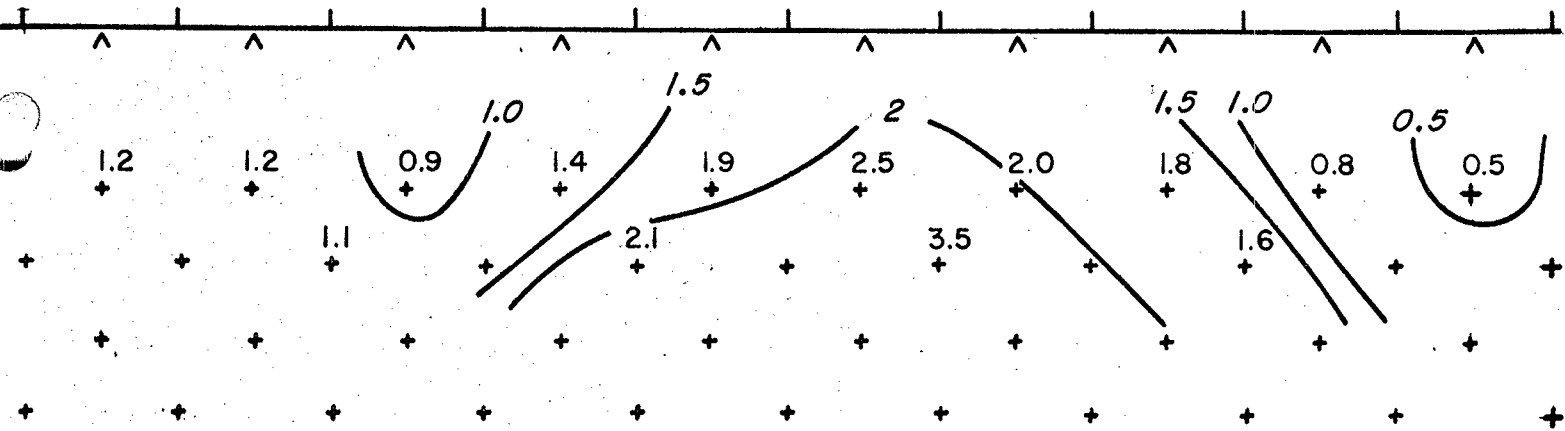
date _____

line location ZENITH I & II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

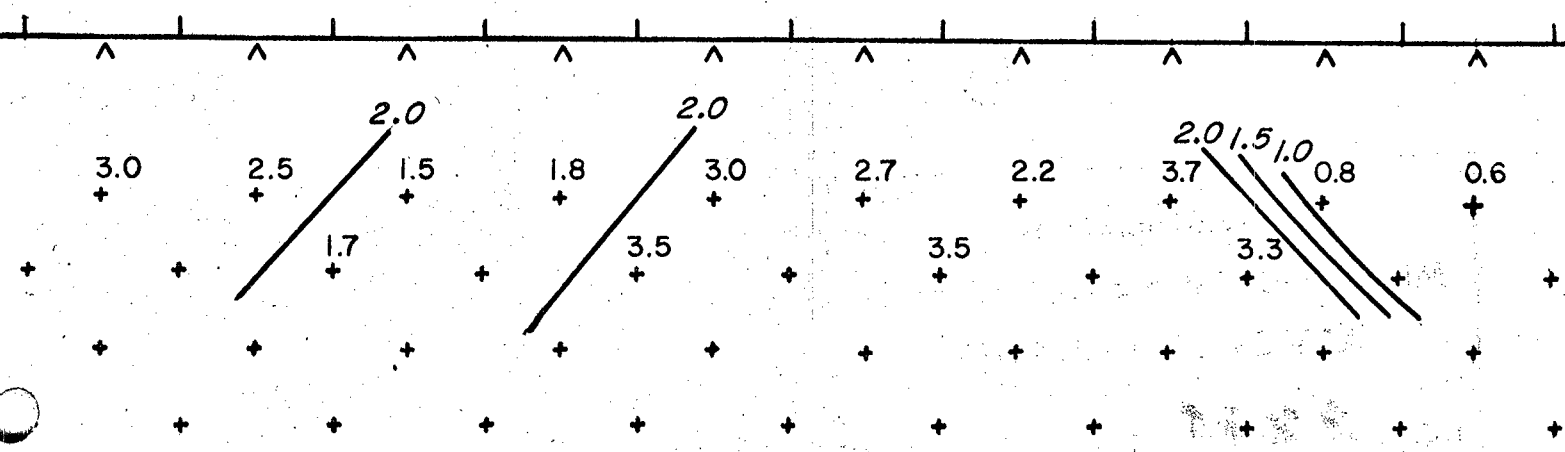
location _____
 map ref. _____
 line no. 60N
 bearing _____



P_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
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NO. **2235** M/P

INDUCED POLARIZATION SURVEY

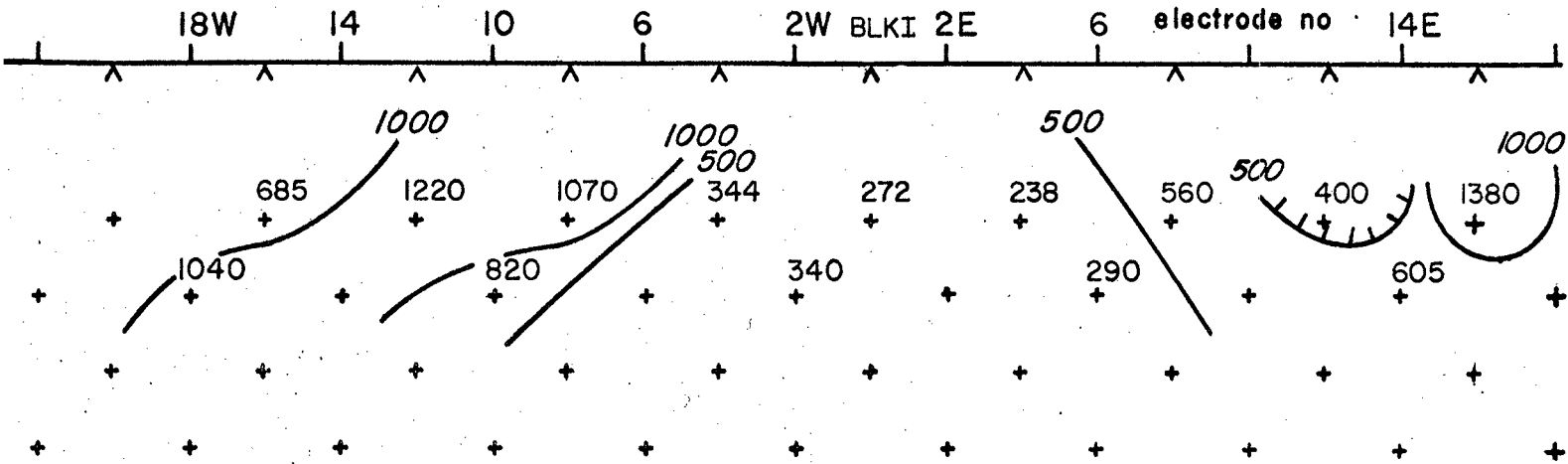
Geoscience Incorporated

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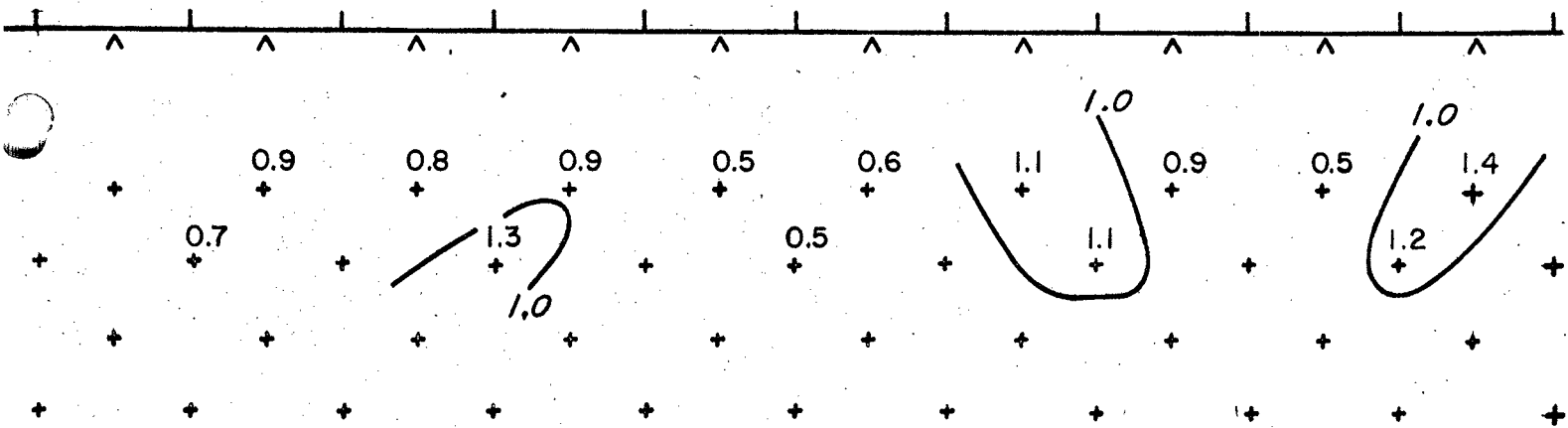
date _____

line location ZENITH I & II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

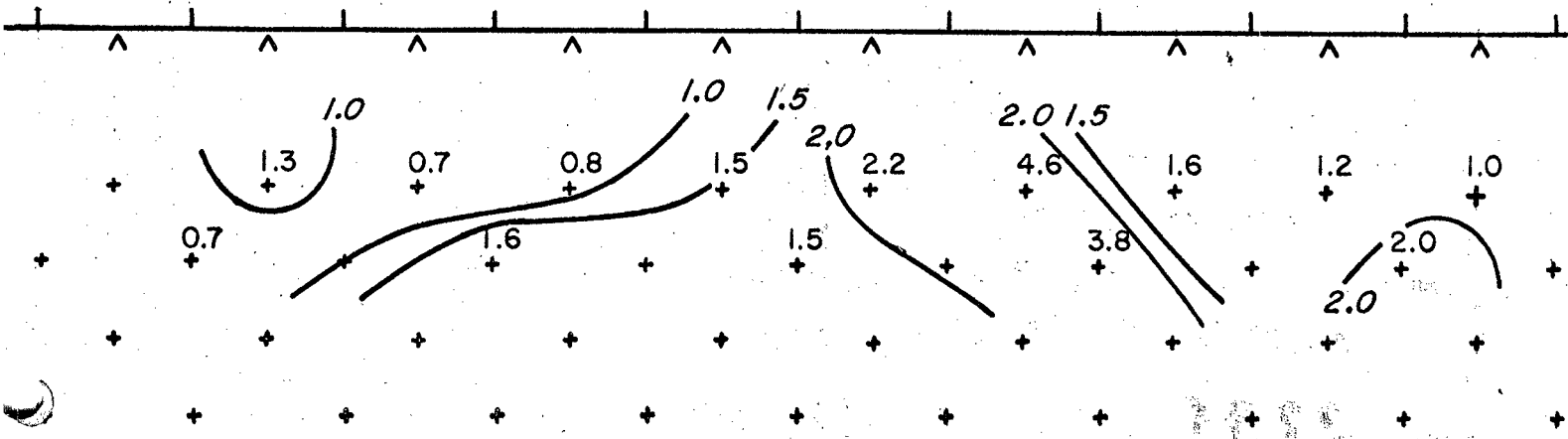
location _____
 map ref. _____
 line no. 60N
 bearing _____



P_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

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Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** MRP

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

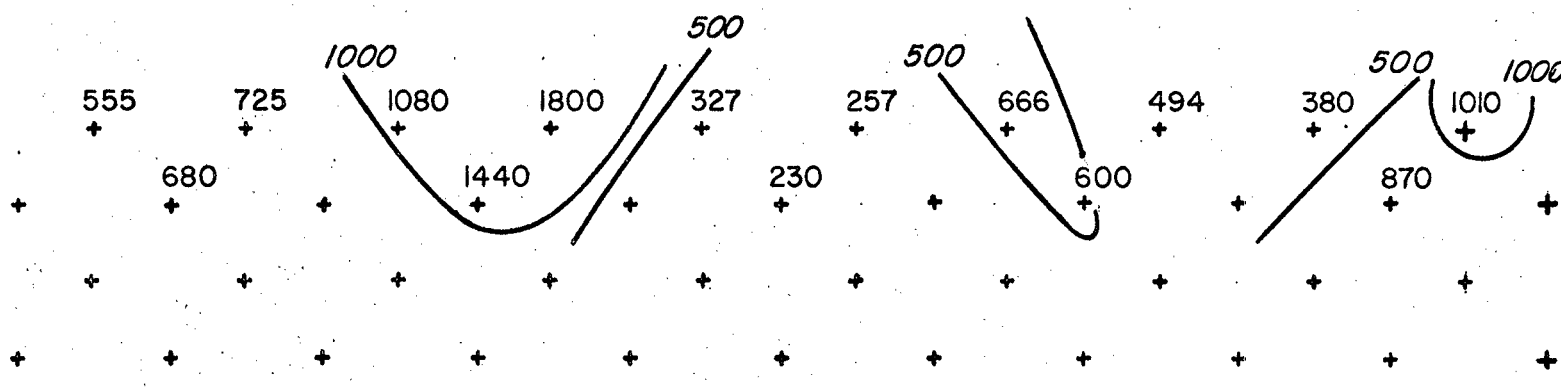
199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

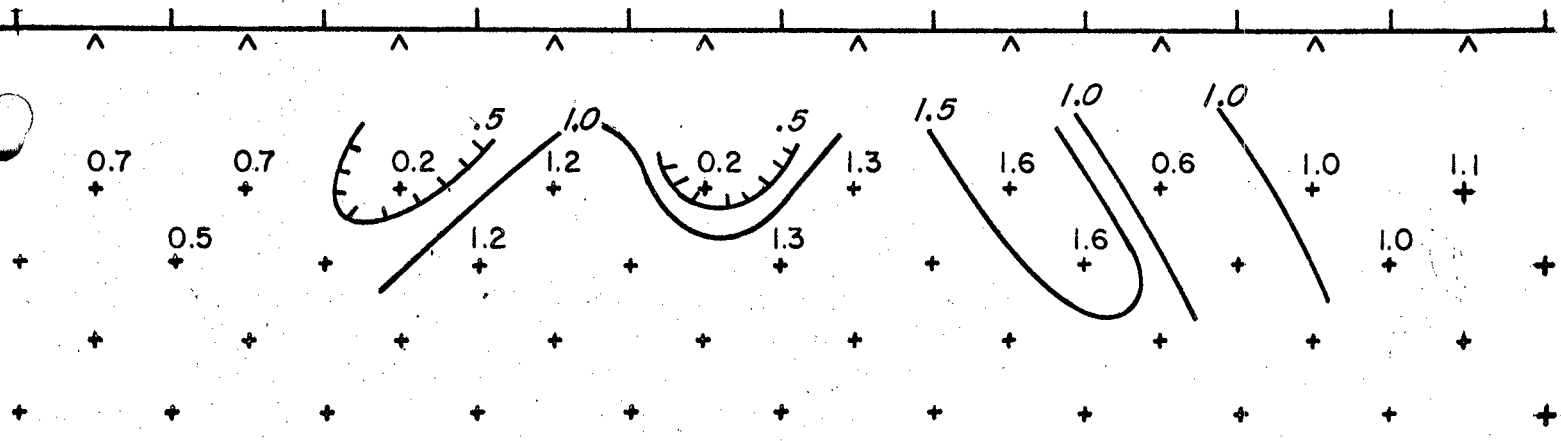
line location ZENITH I & II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 60 N
 bearing _____

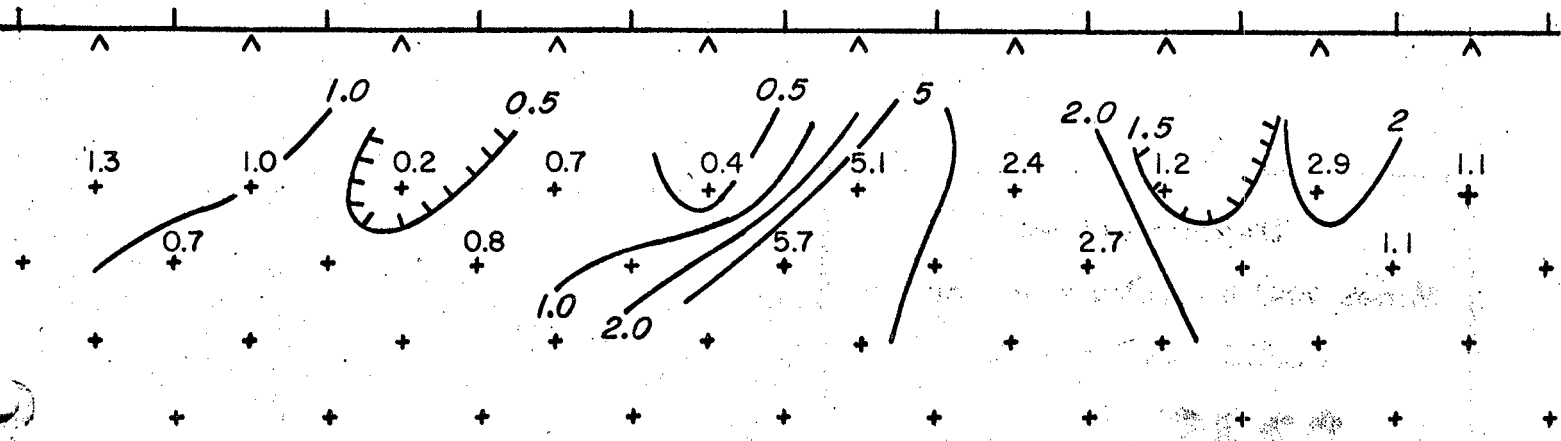
18E 22 26 30 34 38 BLK I 42 46 electrode no 54E



ρ_a (apparent resistivity)



% FE Frequency effect



$(M.F.)_a$ Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources

ASSESSMENT REPORT

NO. **2235** M.P.

INDUCED POLARIZATION SURVEY

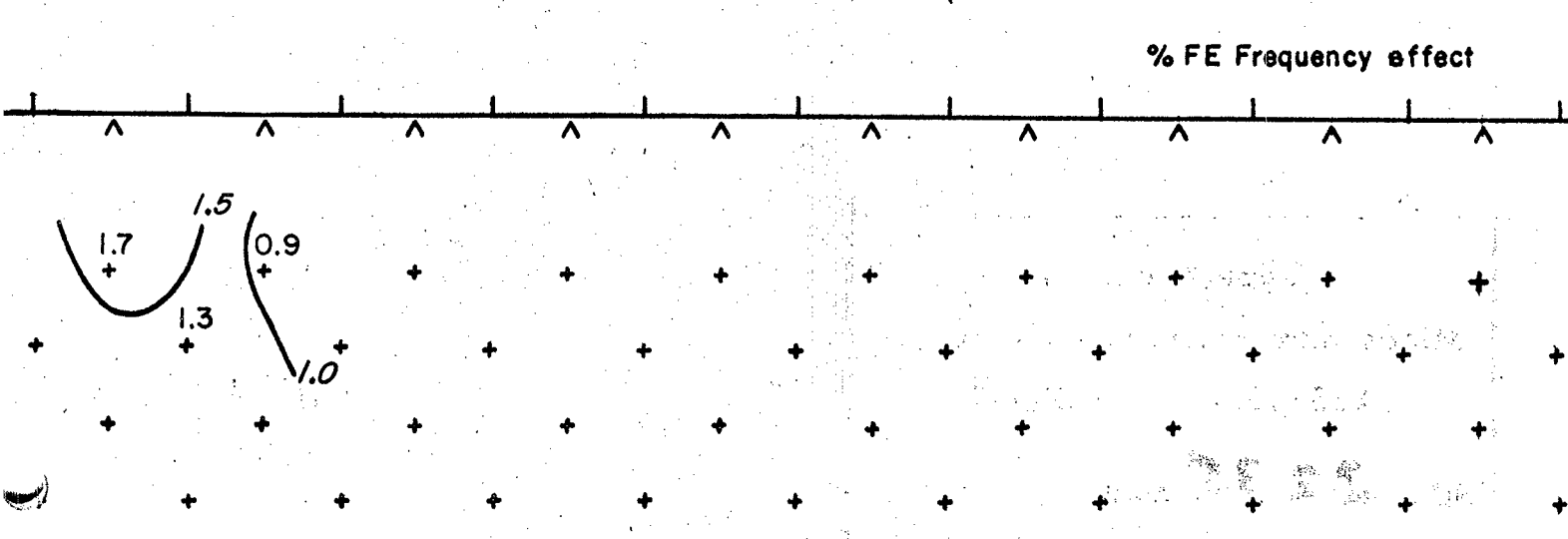
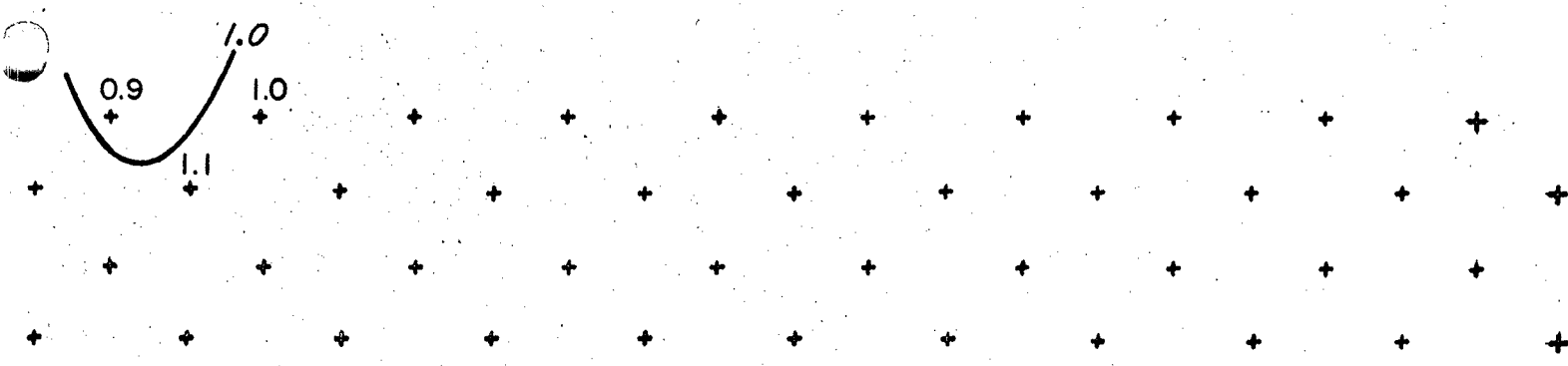
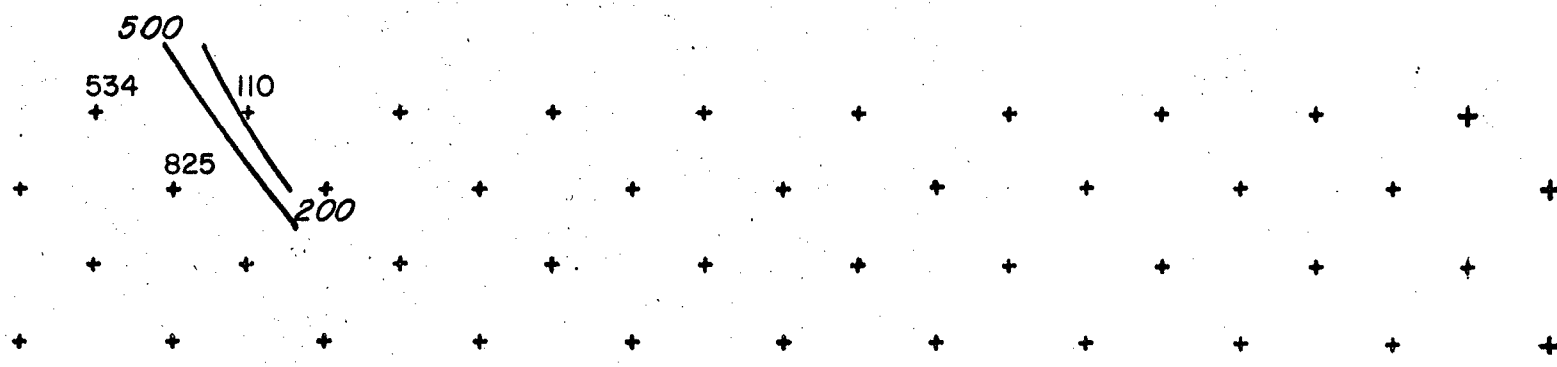
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

line location ZENITH I & II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 60 N
 bearing _____



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources

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NO. **2235** M&P

INDUCED POLARIZATION SURVEY

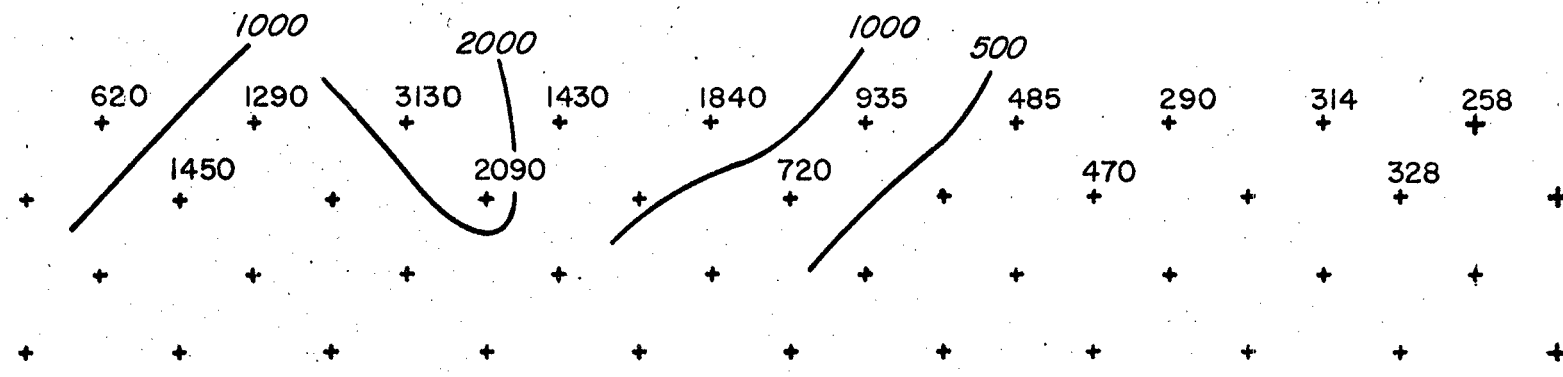
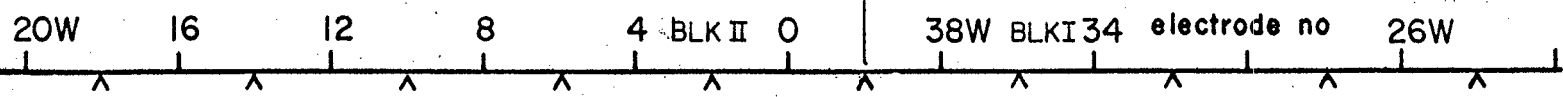
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

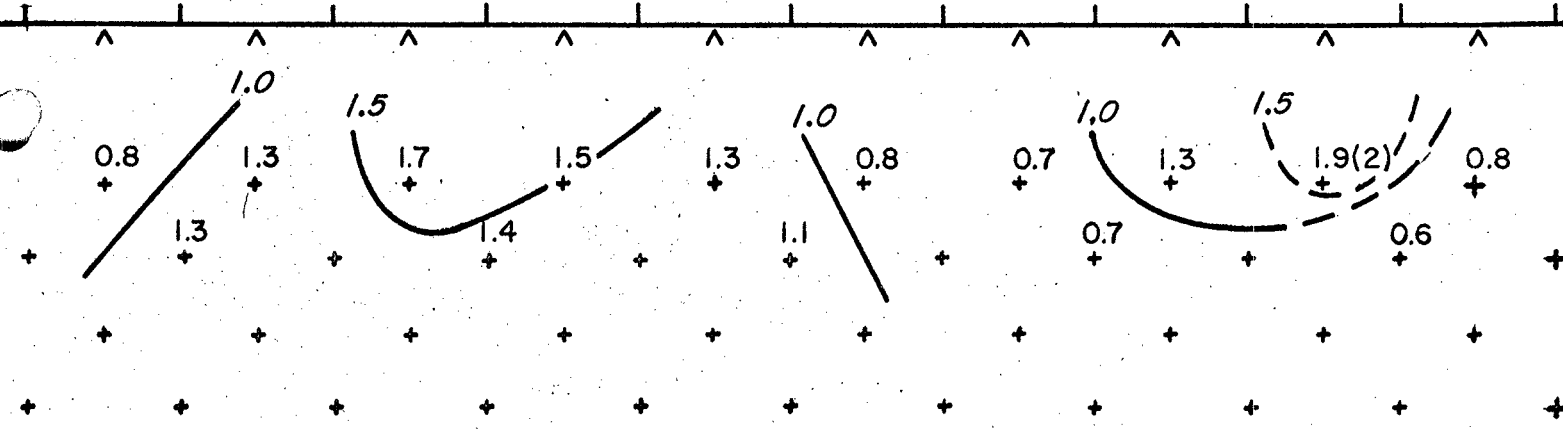
date _____

line location ZENITH I & II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

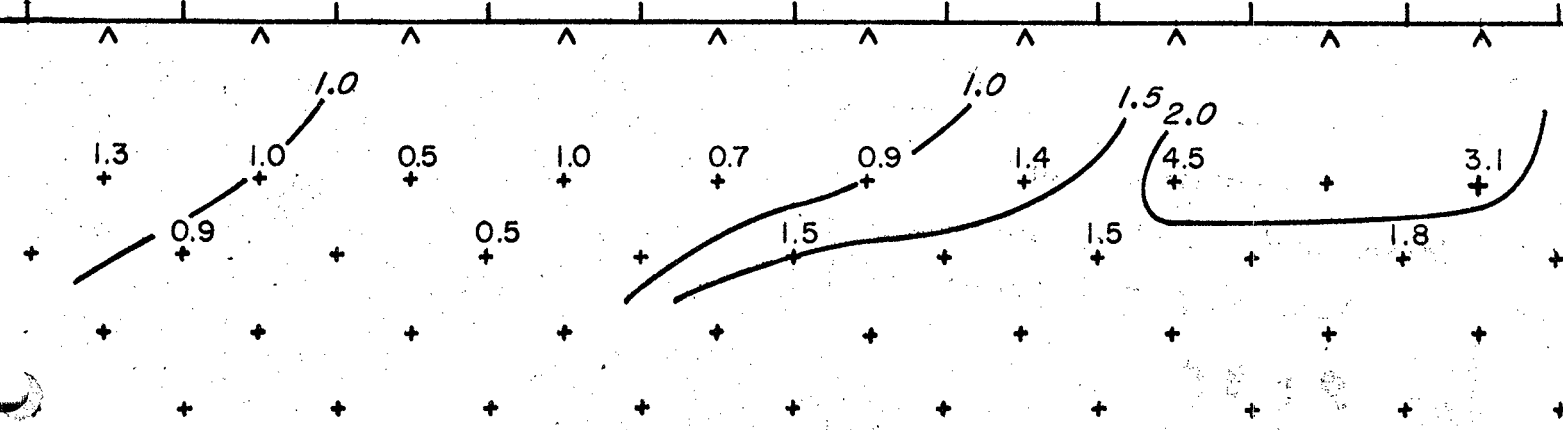
location _____
 map ref. _____
 line no. 70 N
 bearing _____



P_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Geophysical Resources
ASSESSMENT REPORT

NO. **2235** A.P. _____

INDUCED POLARIZATION SURVEY

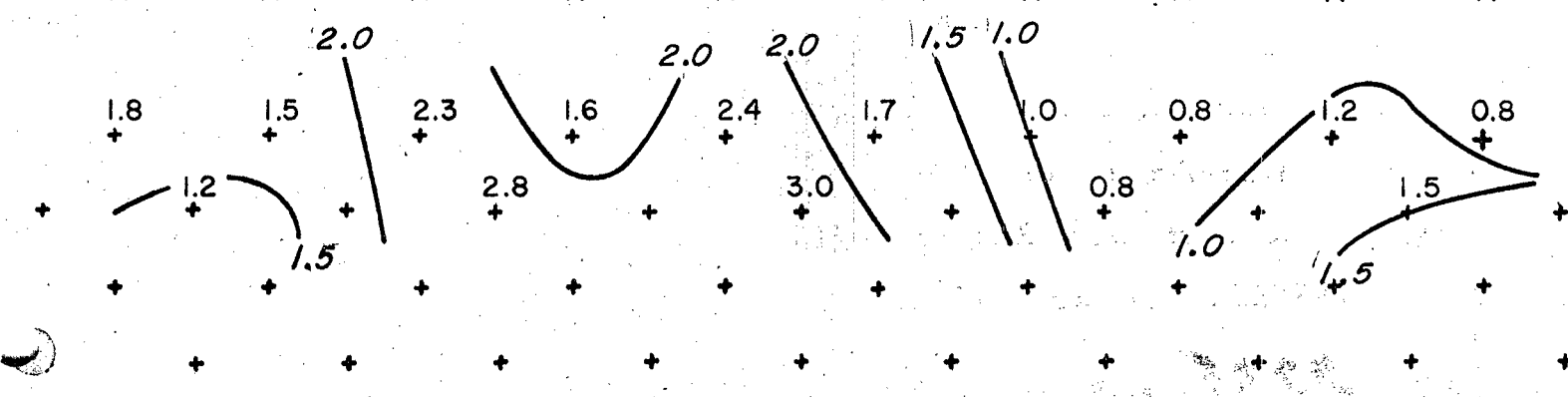
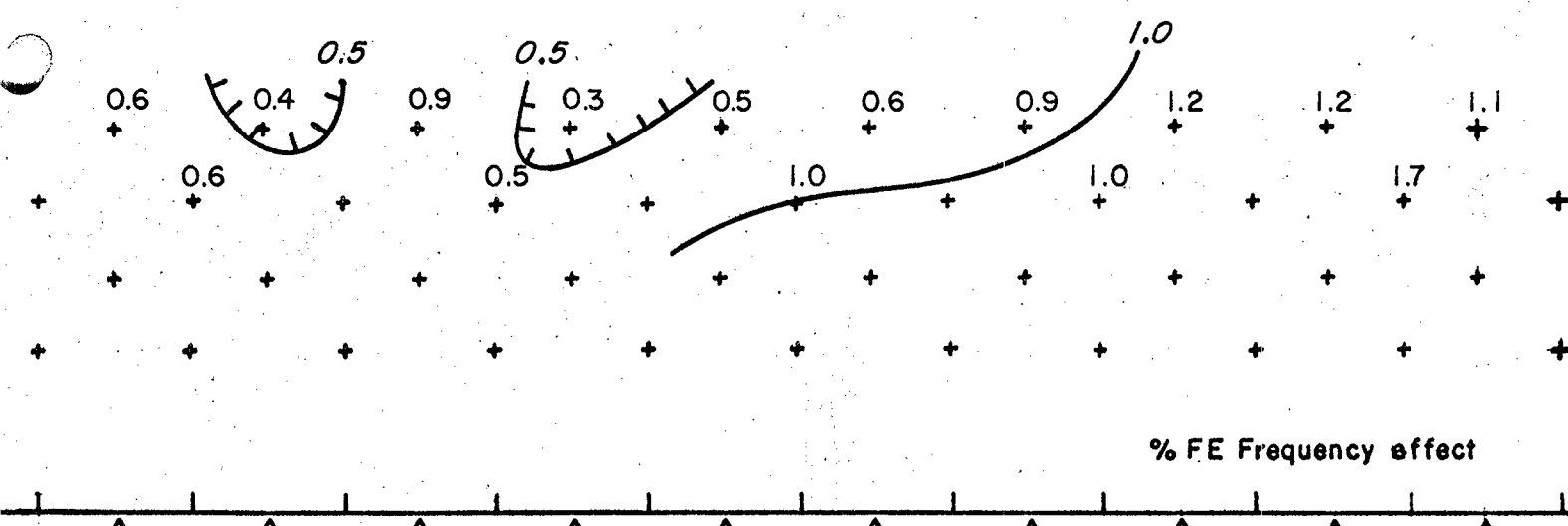
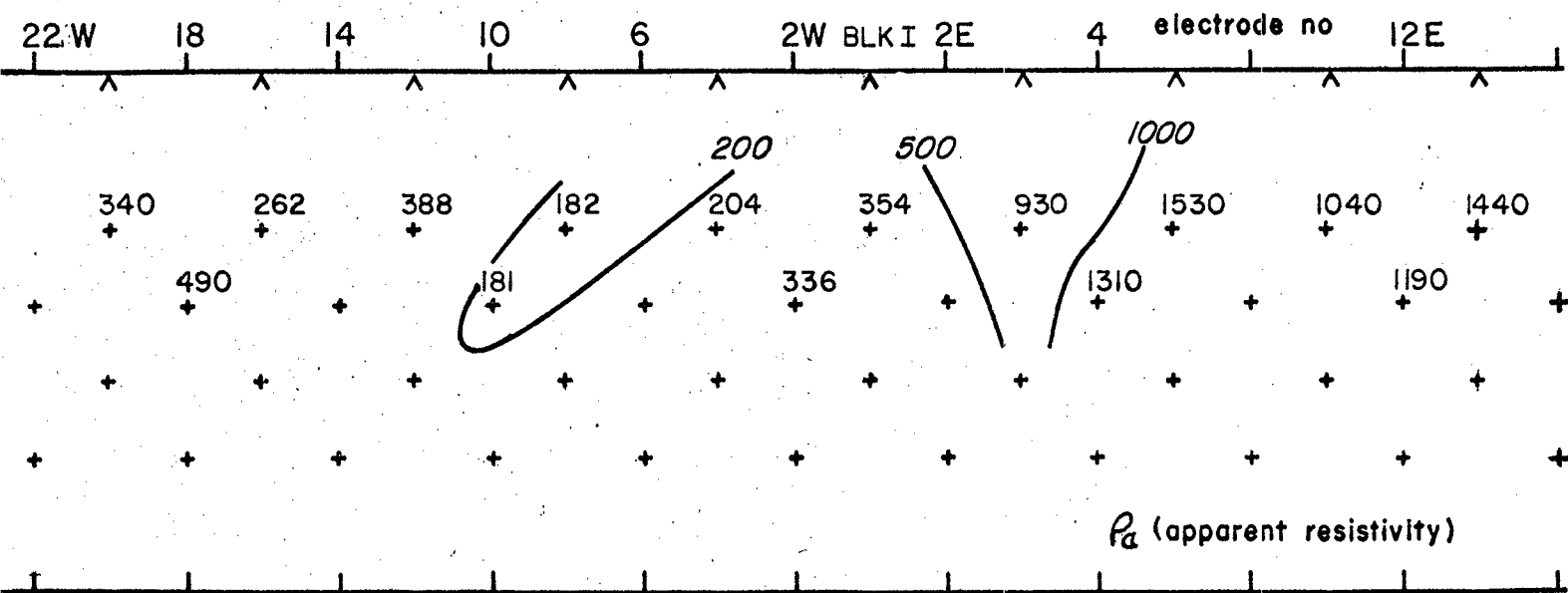
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

line location ZENITH I & II
 frequencies 3 8 3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 70 N
 bearing _____



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

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Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** MAP

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

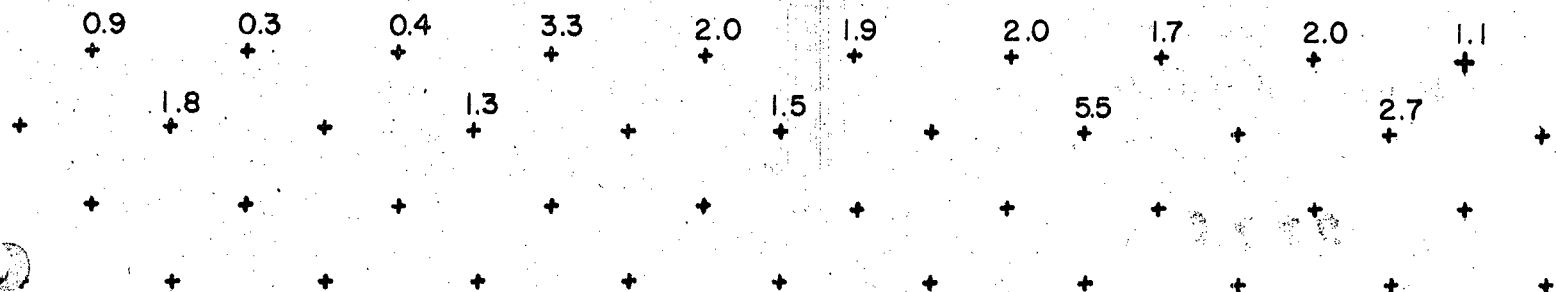
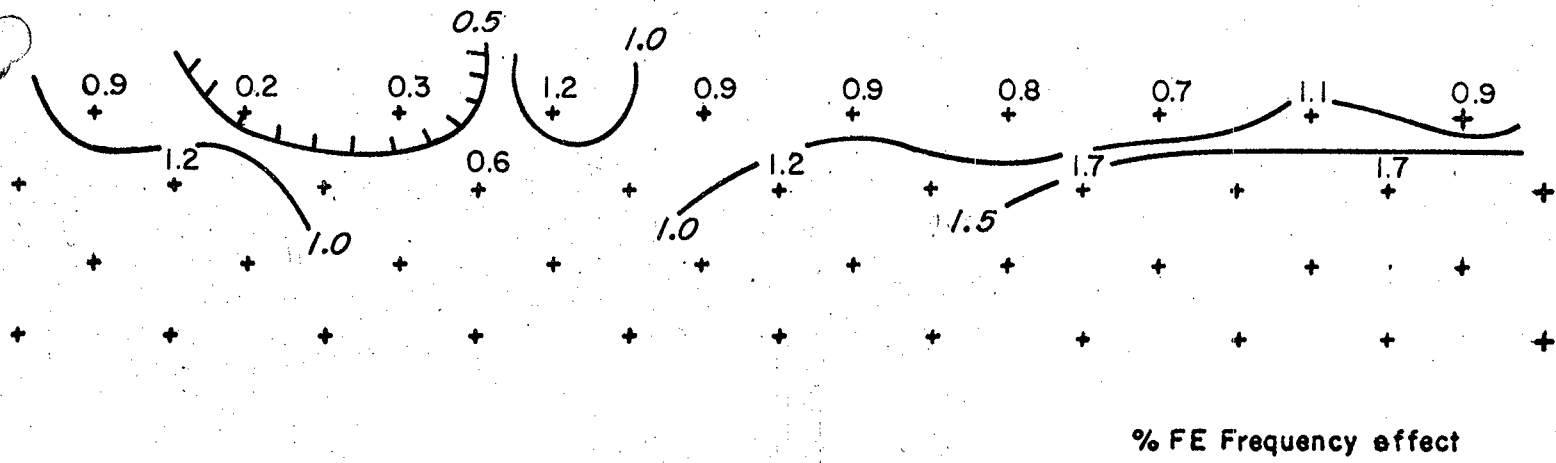
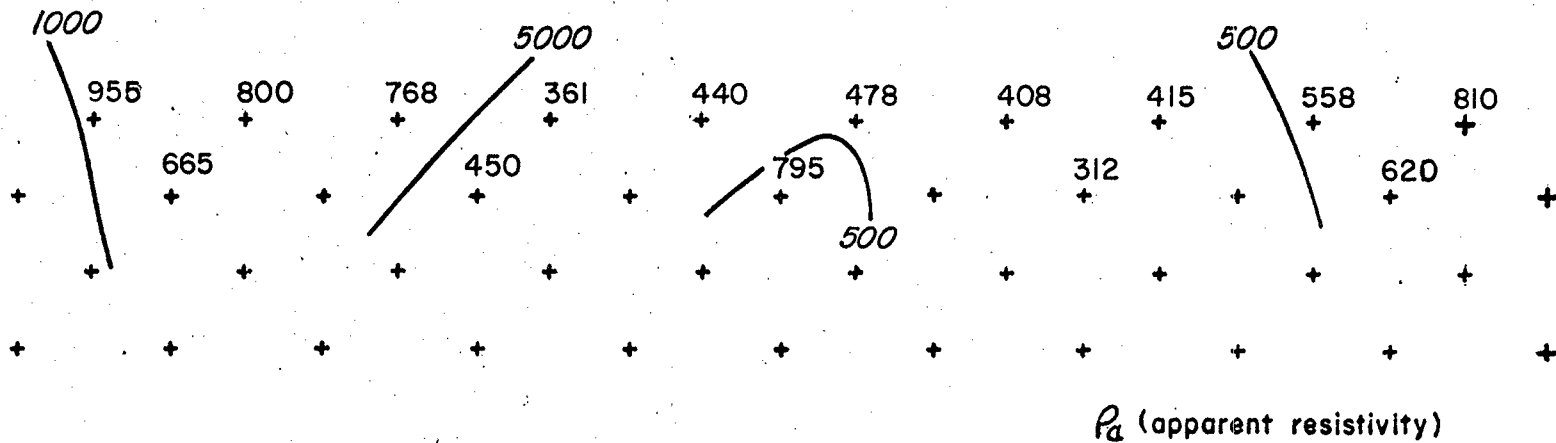
199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

line location ZENITH I & II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 70 N
 bearing _____

18E 22 26 30 34 BLKI 38 42 46 electrode no 54E



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

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NO. **2235** MAP

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

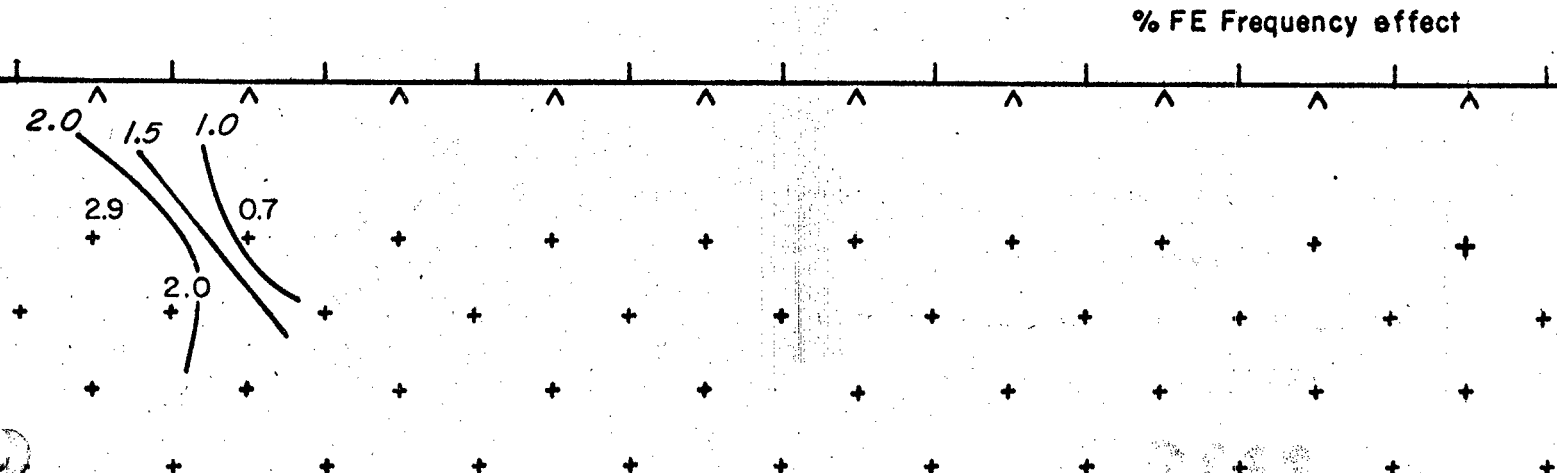
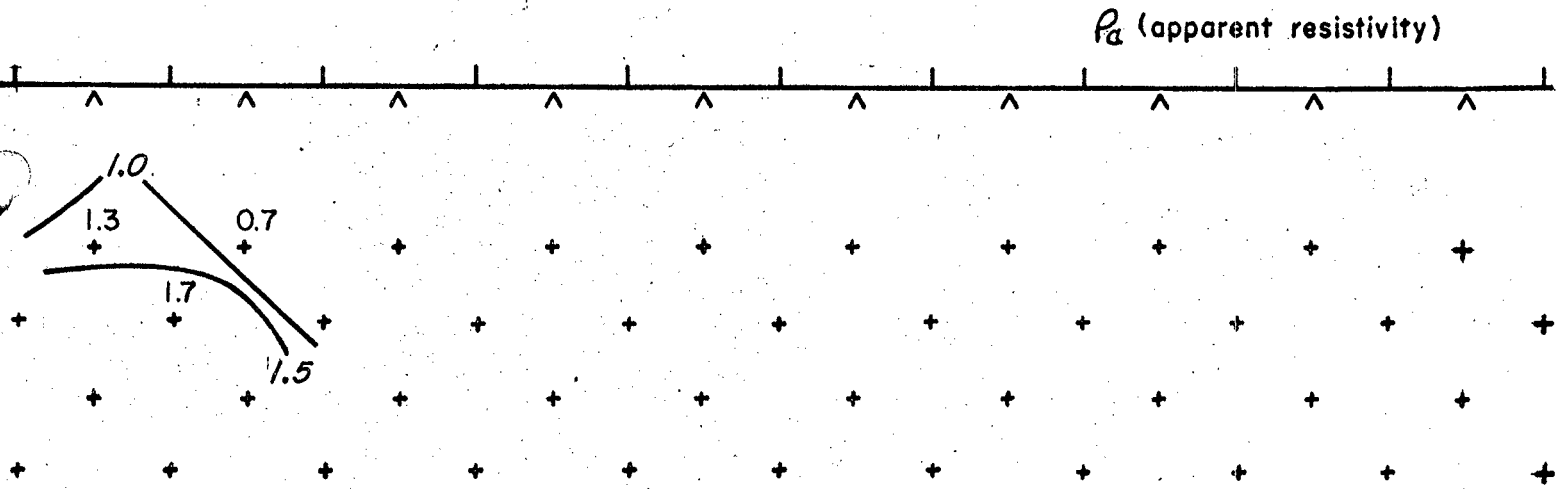
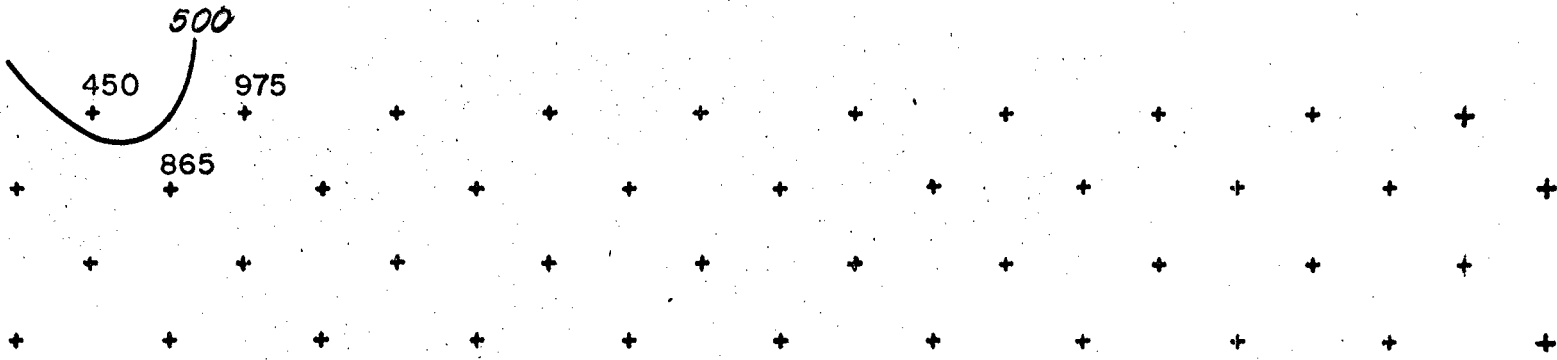
199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

line location ZENITH I & II
frequencies 3 & .3 cps
dipole length 400'
operators _____

location _____
map ref. _____
line no. 70N
bearing _____

58E 62 66 70E BLK I electrode no



continued from sheet _____ on sheet _____

(M.F.)_a Metal Factor

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ASSESSMENT REPORT

NO. **2235** MAP.....

INDUCED POLARIZATION SURVEY

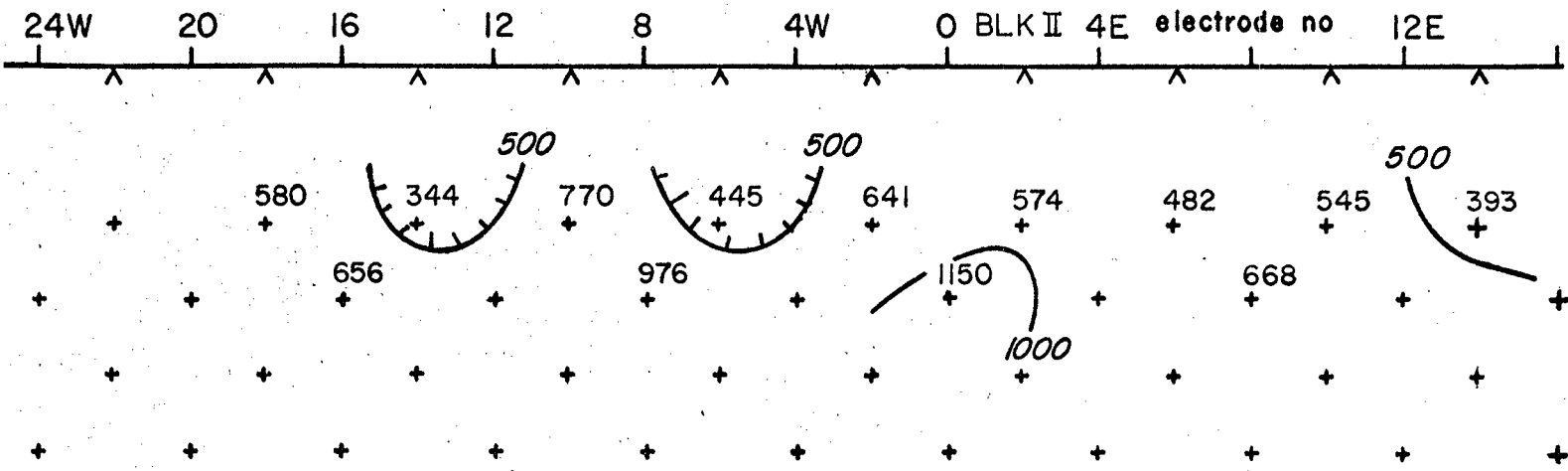
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

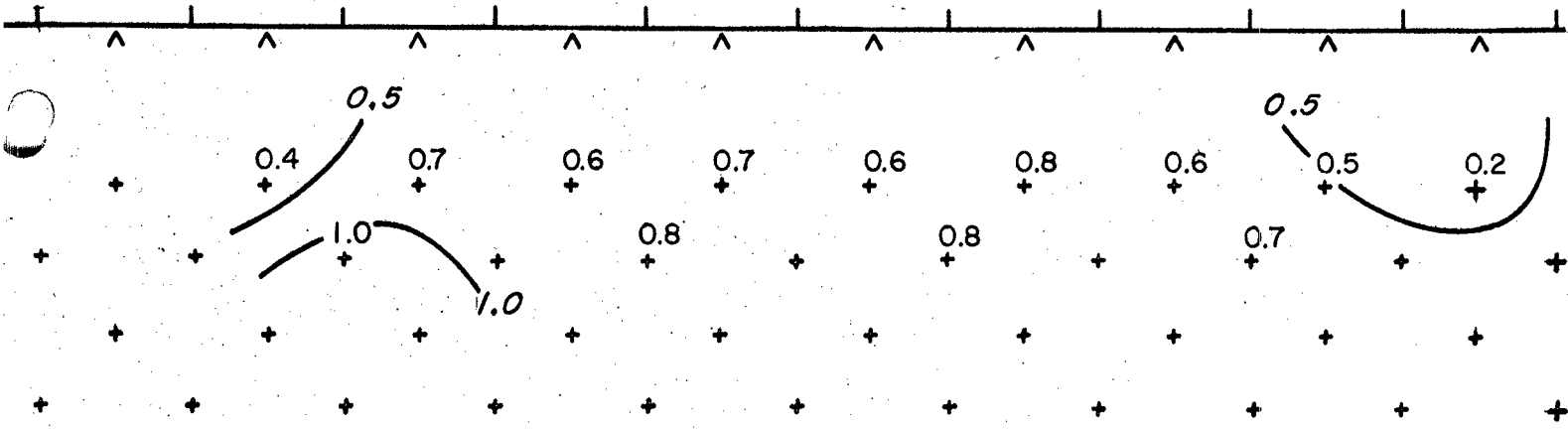
date _____

line location ZENITH I & II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

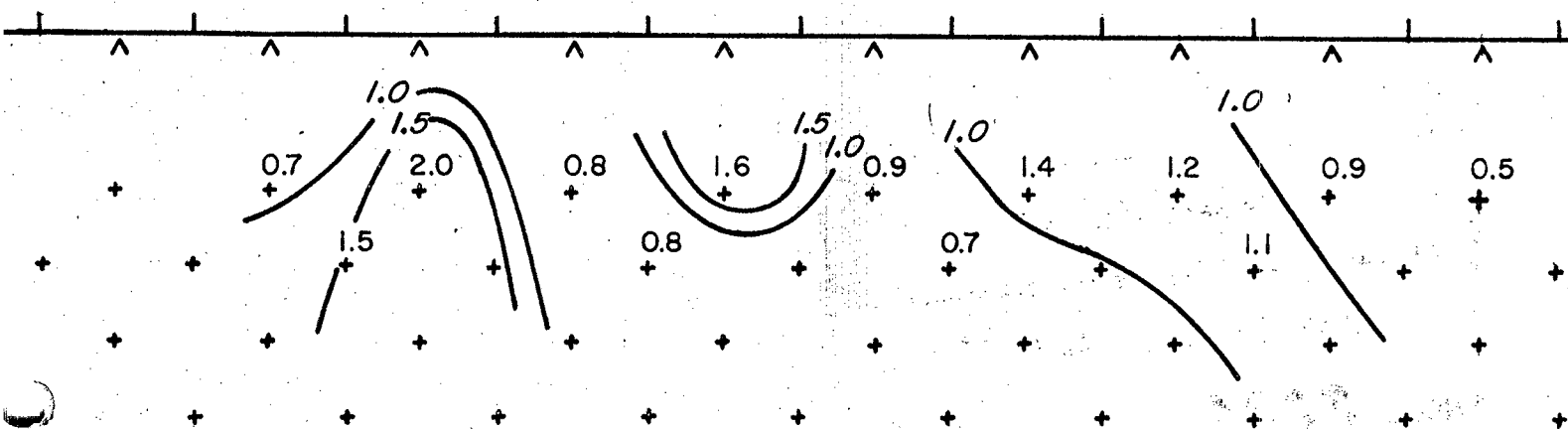
location _____
 map ref. _____
 line no. 80 N
 bearing _____



P_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** MSP

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

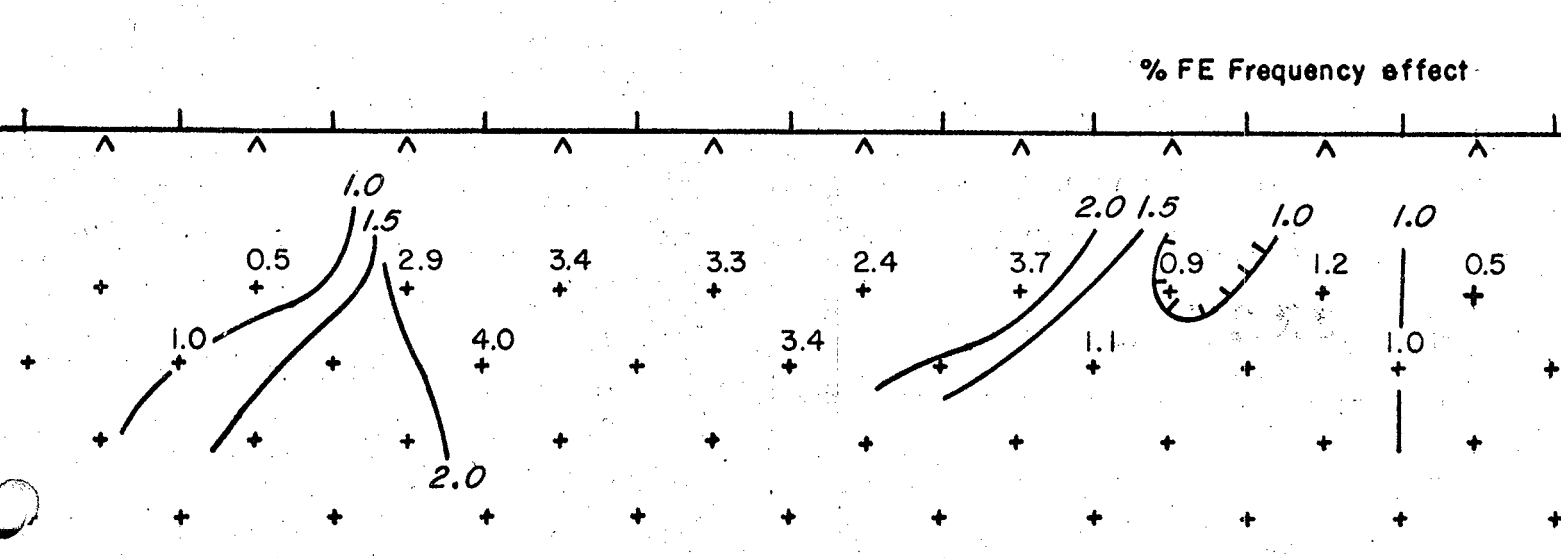
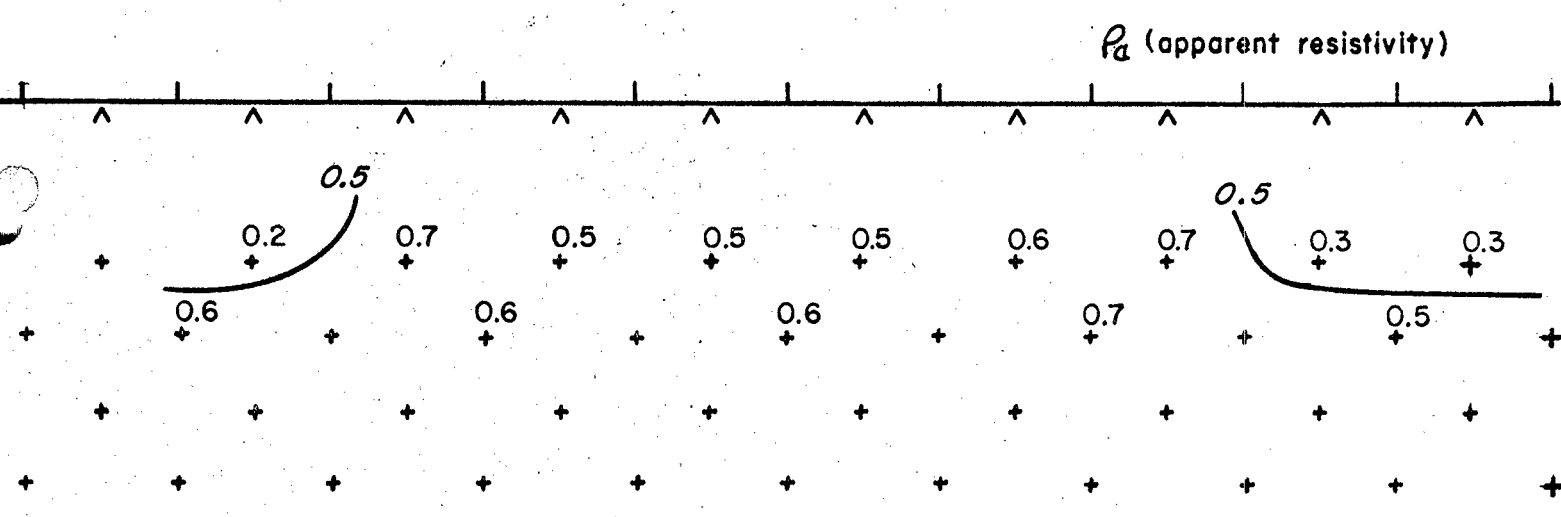
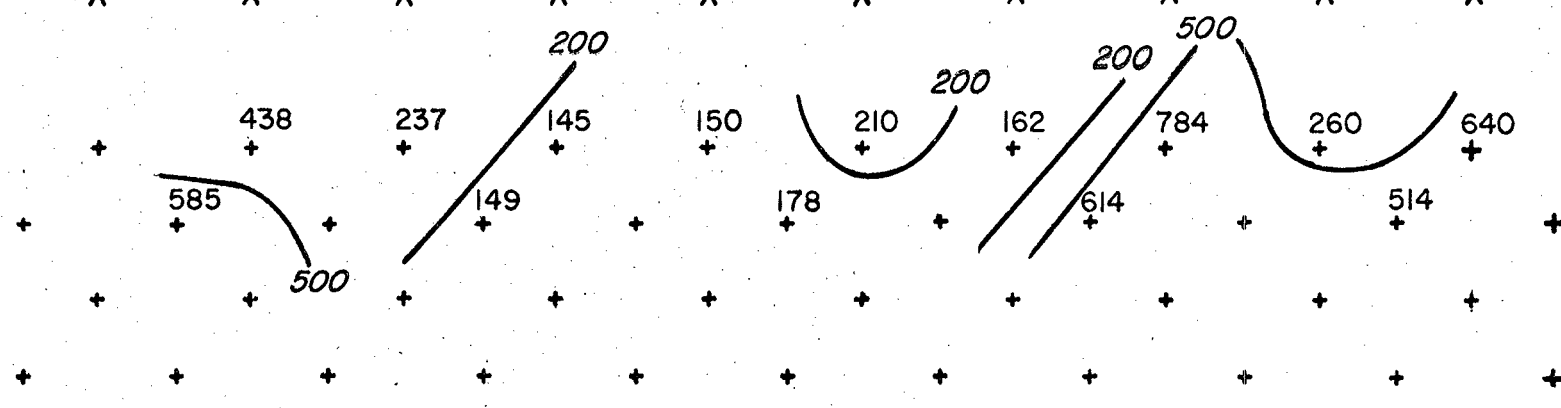
199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

line location ZENITH I & II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 80N
 bearing _____

12E 16 20 BLK II 24E 14W BLK I 10 6 2 electrode no 2E



continued from sheet _____ on sheet _____

Department of
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ASSESSMENT REPORT

NO. **2235** MRP

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

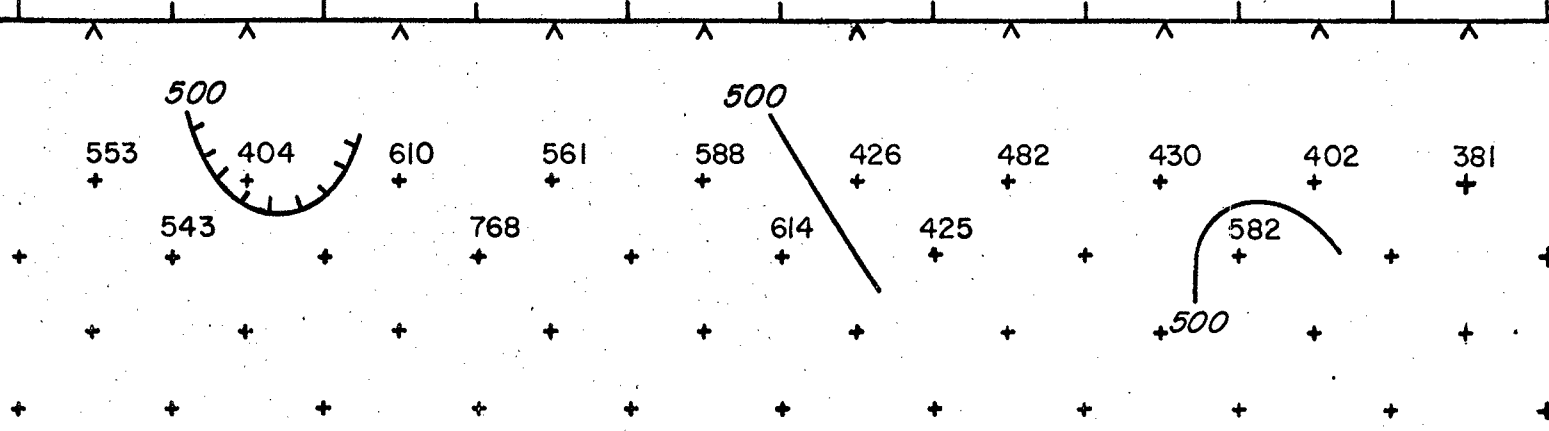
199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

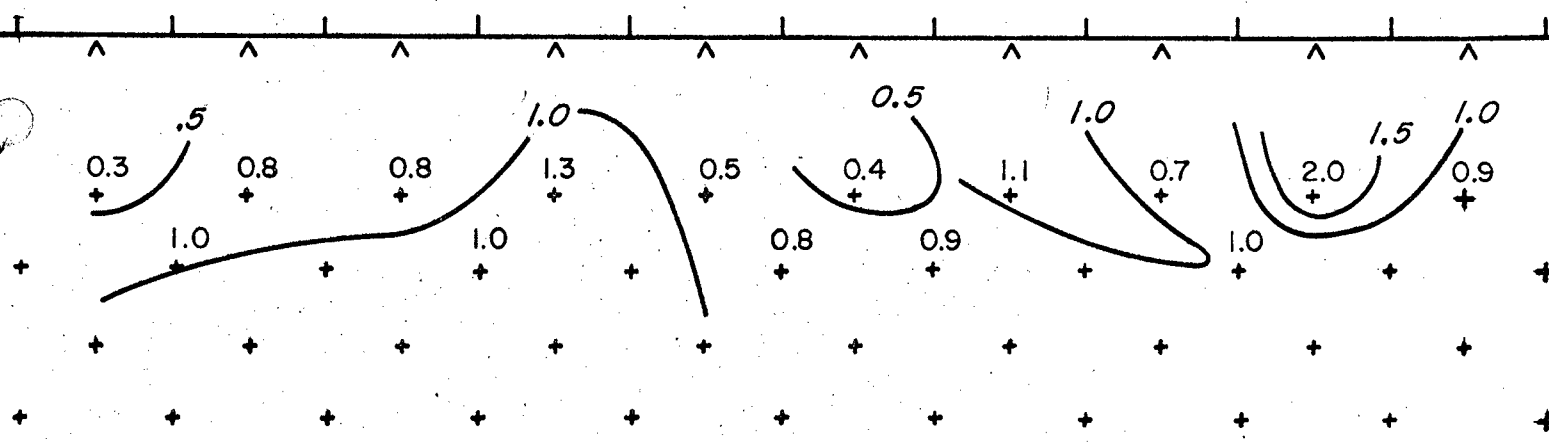
line location ZENITH I & II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 80N
 bearing _____

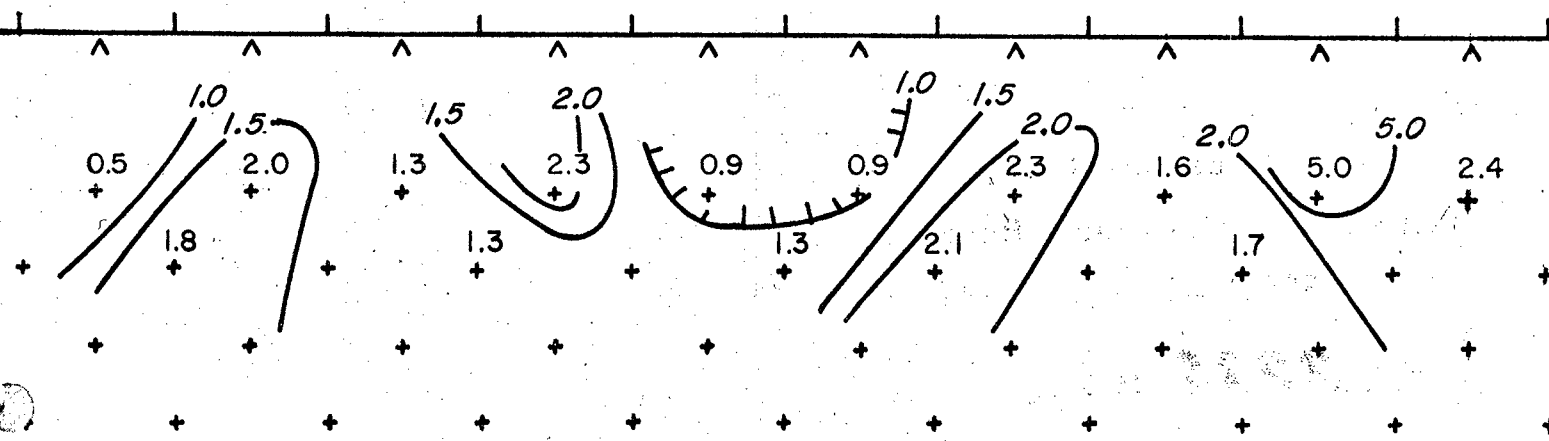
IOE 14 18 22 26 BLK I 30 34 38 electrode no 46E



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** MAP.....

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

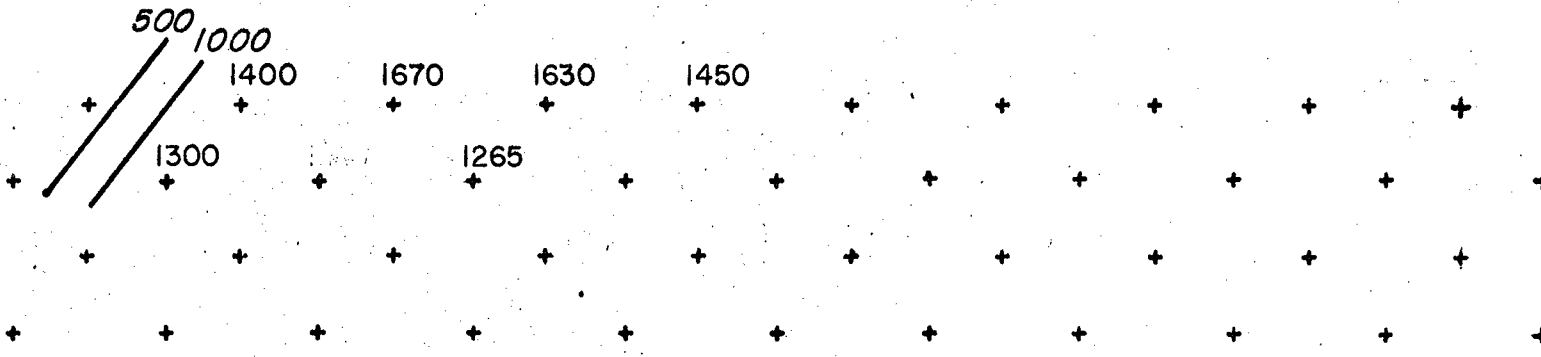
199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

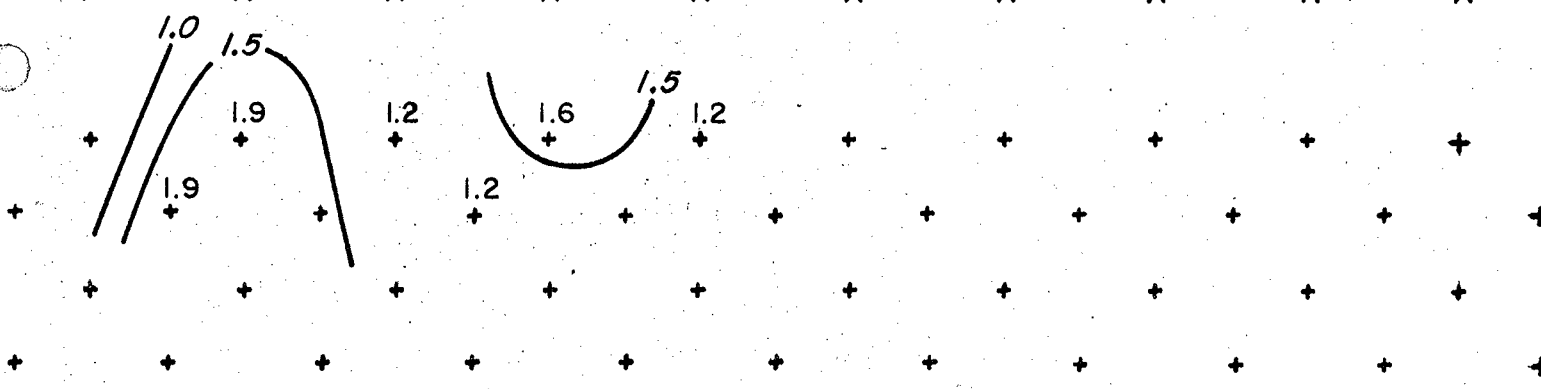
line location ZENITH I & II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 80 N
 bearing _____

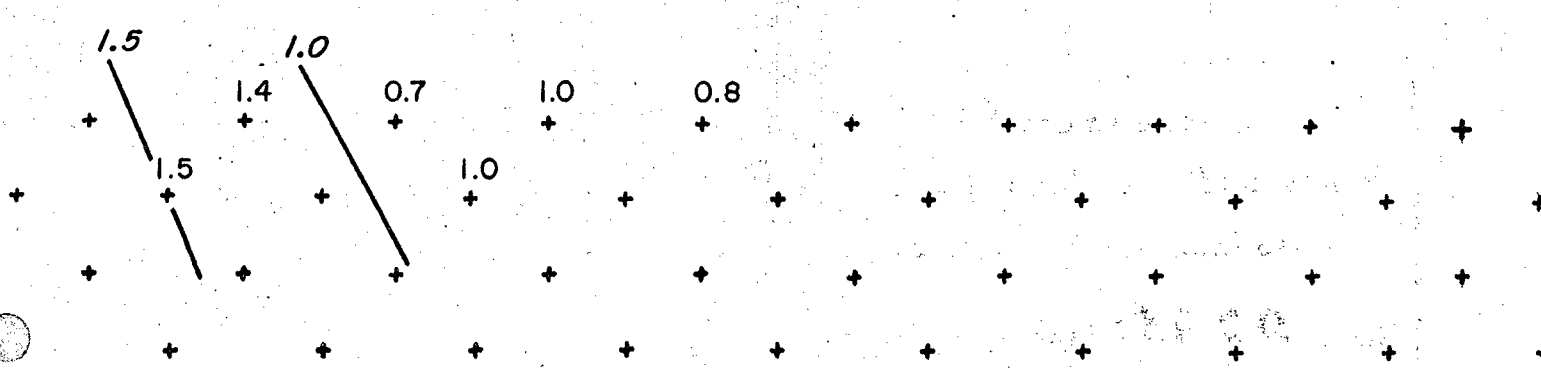
50E 54 58 62 66 70E electrode no



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** M. P.

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

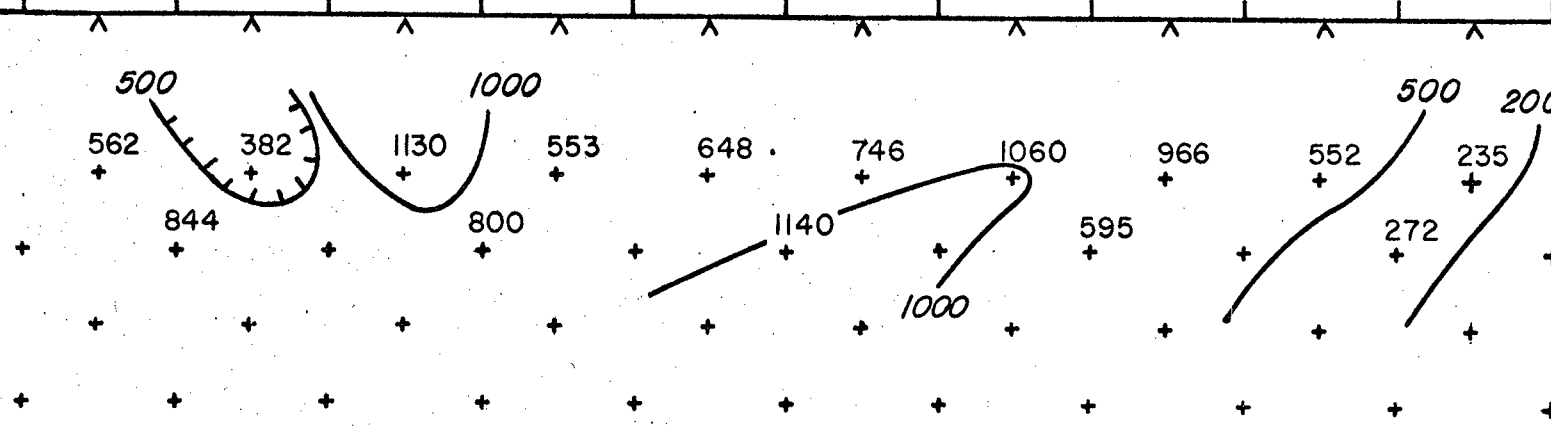
199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

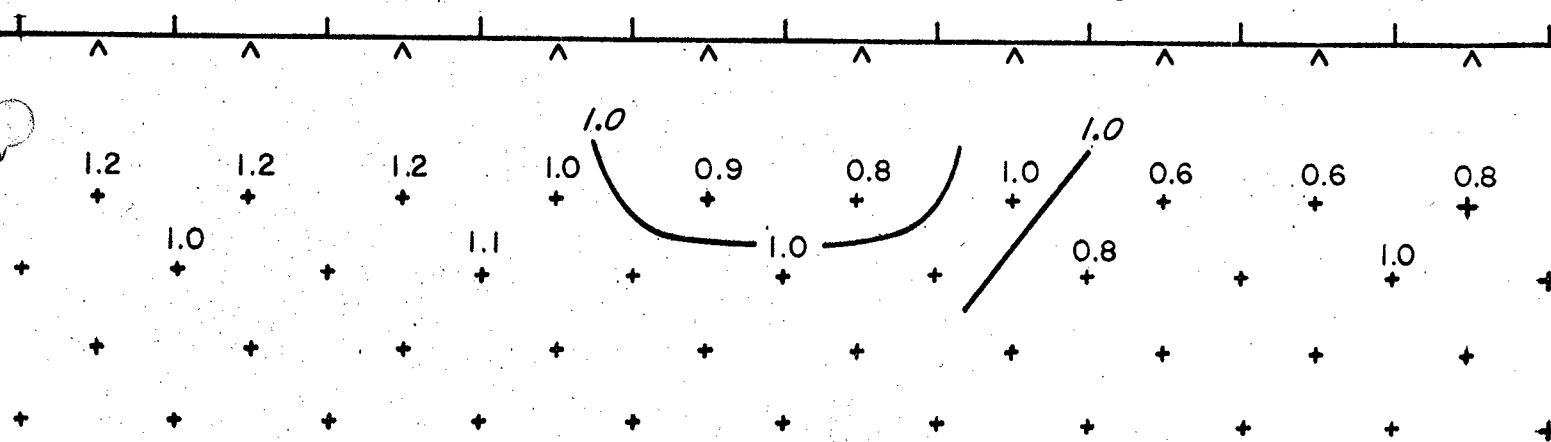
line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 40 N
 bearing _____

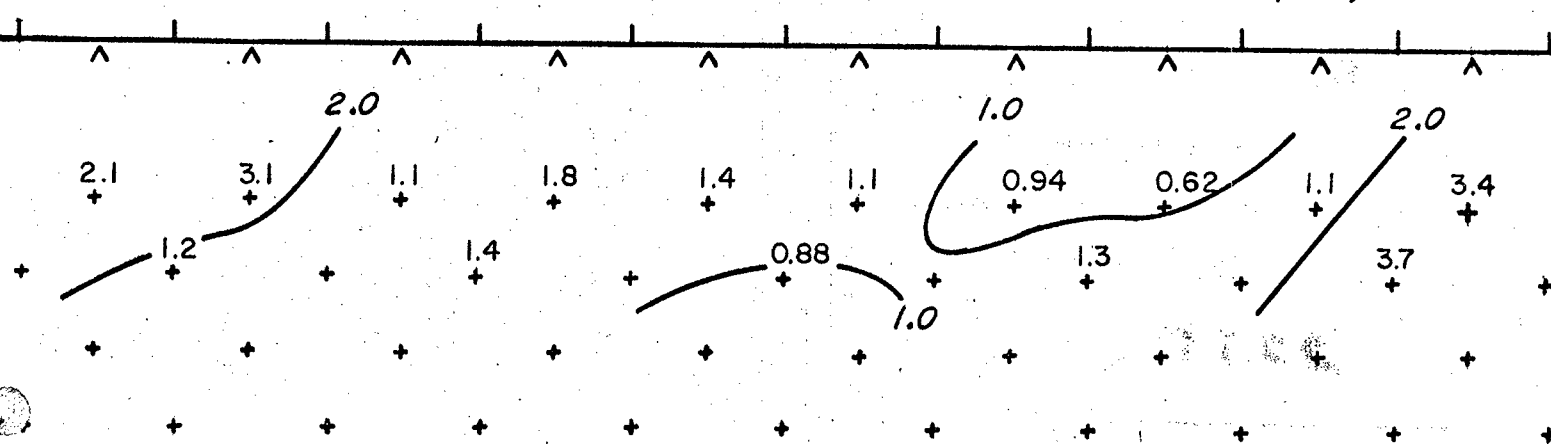
20W 16 12 8 4 0 4 8 electrode no 16E



P_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

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ASSESSMENT REPORT

NO. **2235** MAP

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

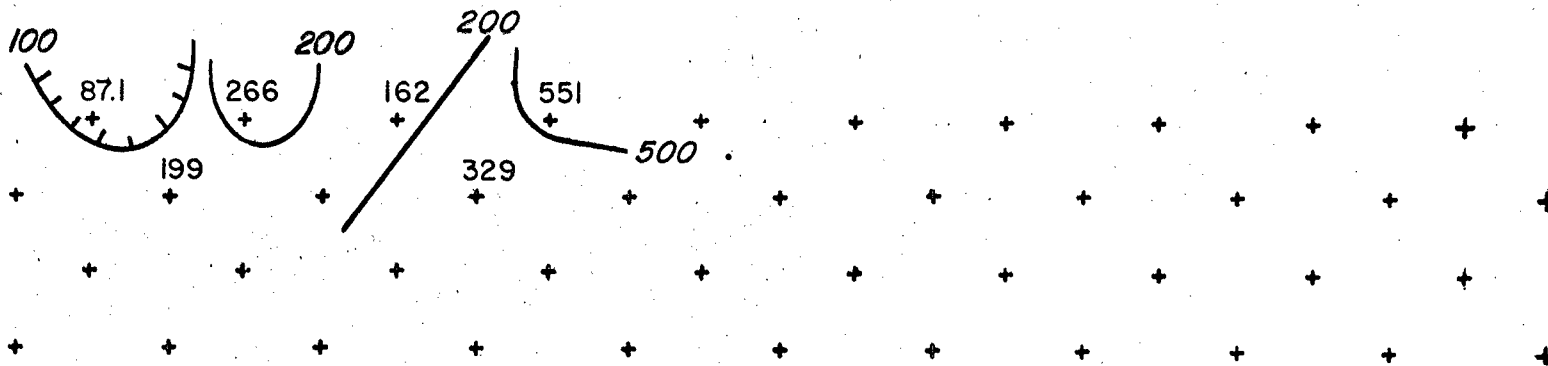
199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

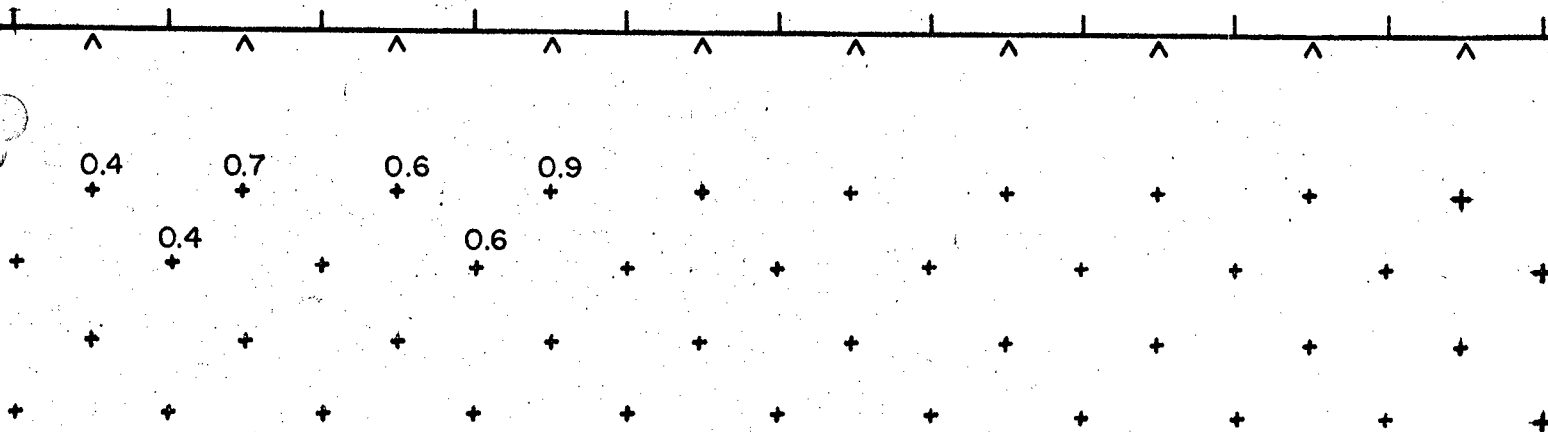
line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400
 operators _____

location _____
 map ref. _____
 line no. 40 N
 bearing _____

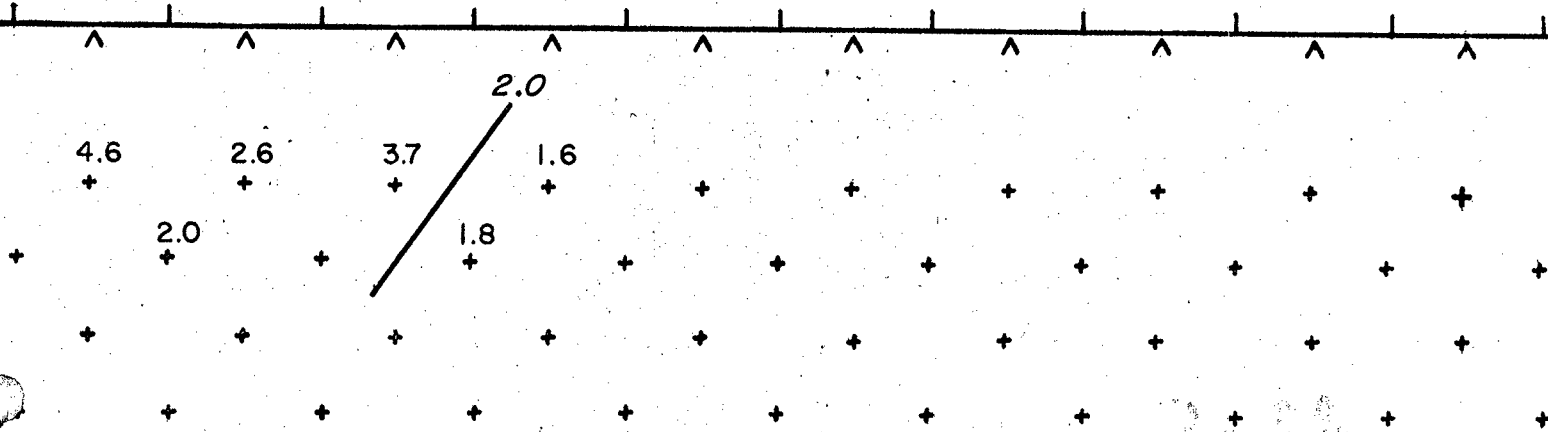
20E 24 28 32 36E electrode no



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_d Metal Factor

continued from sheet _____ on sheet _____

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ASSESSMENT REPORT

NO. **2235** M/P

INDUCED POLARIZATION SURVEY

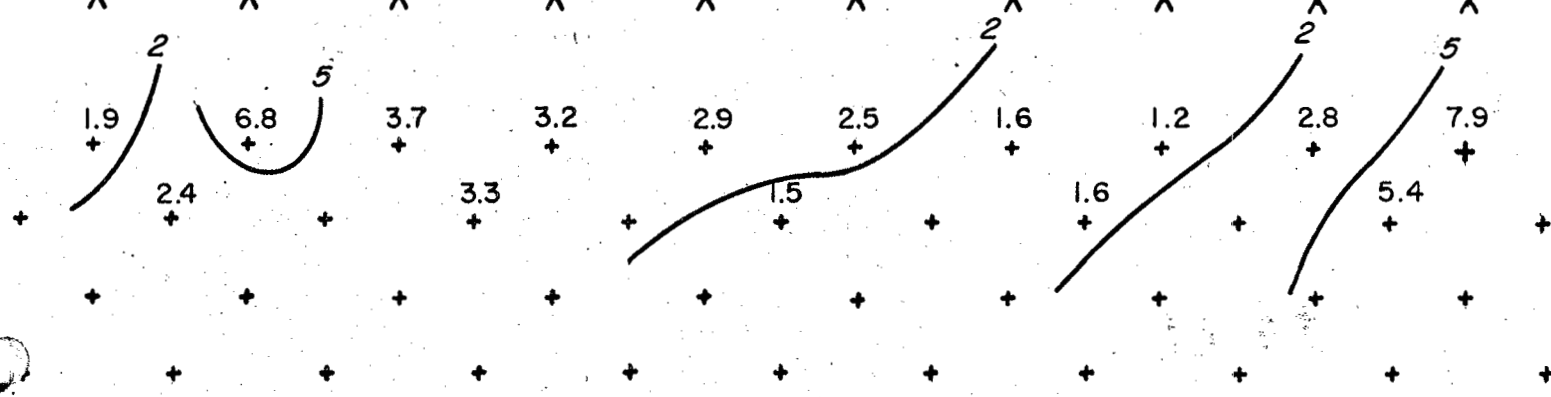
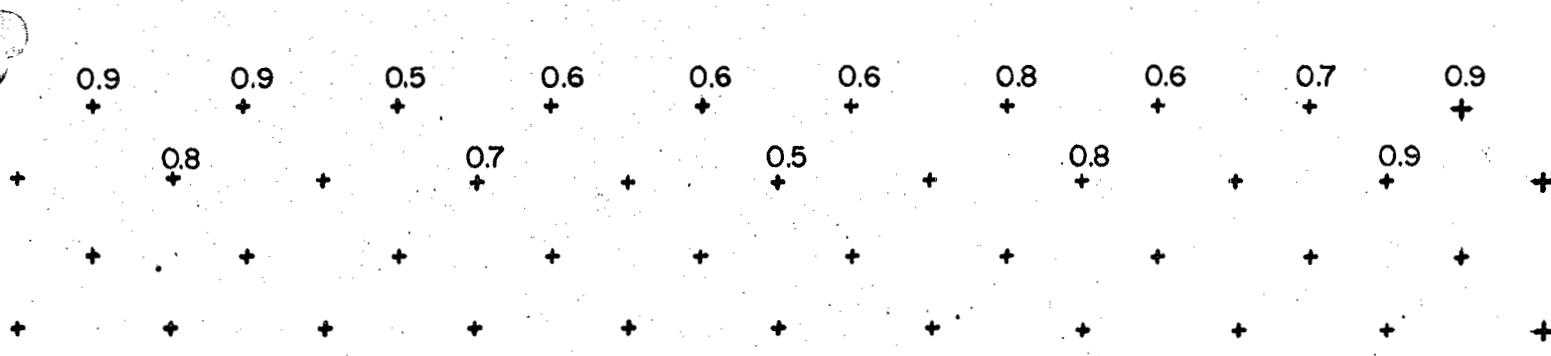
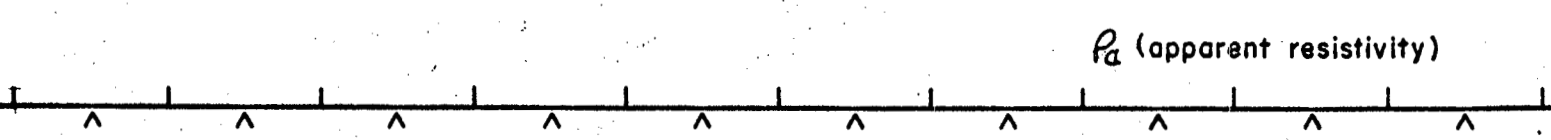
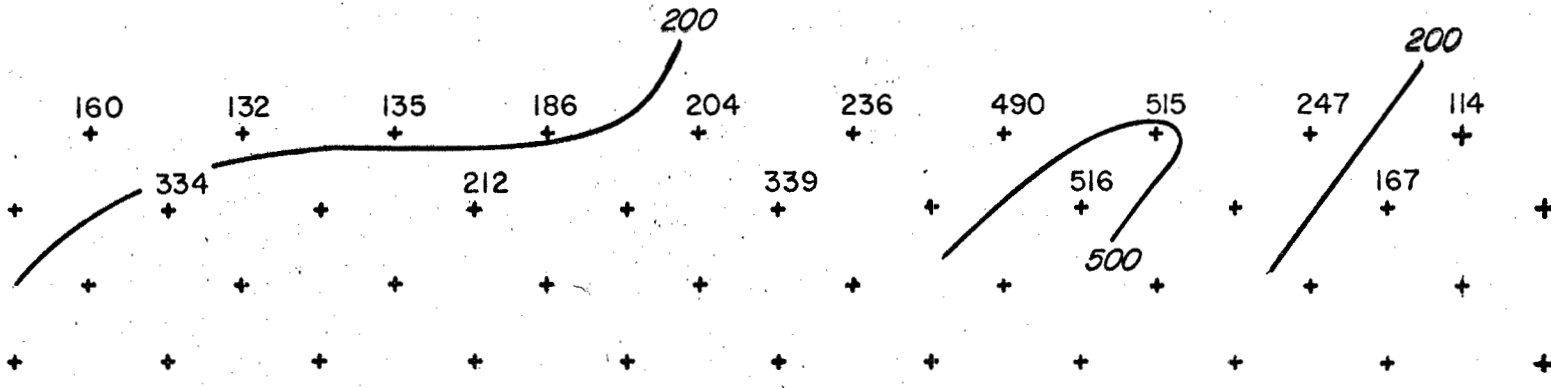
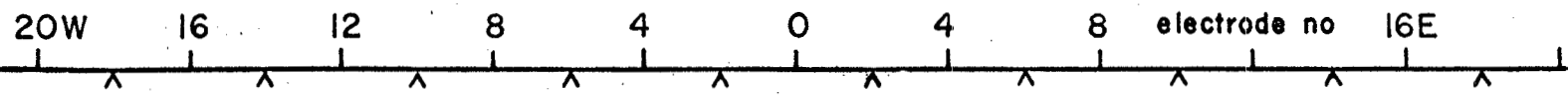
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 48 N
 bearing _____



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** N/P

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

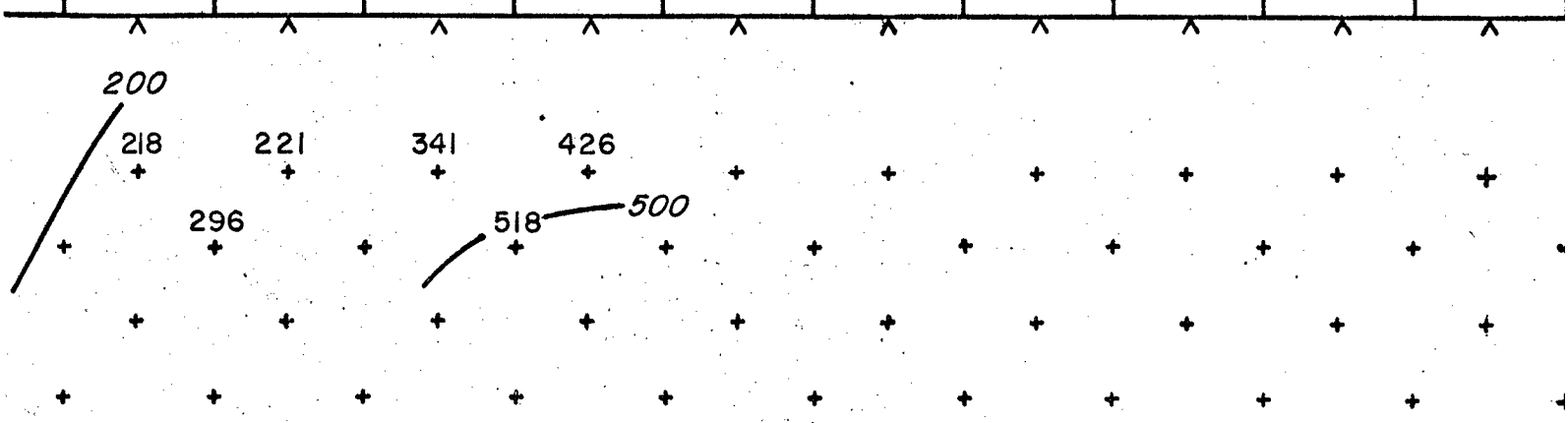
199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

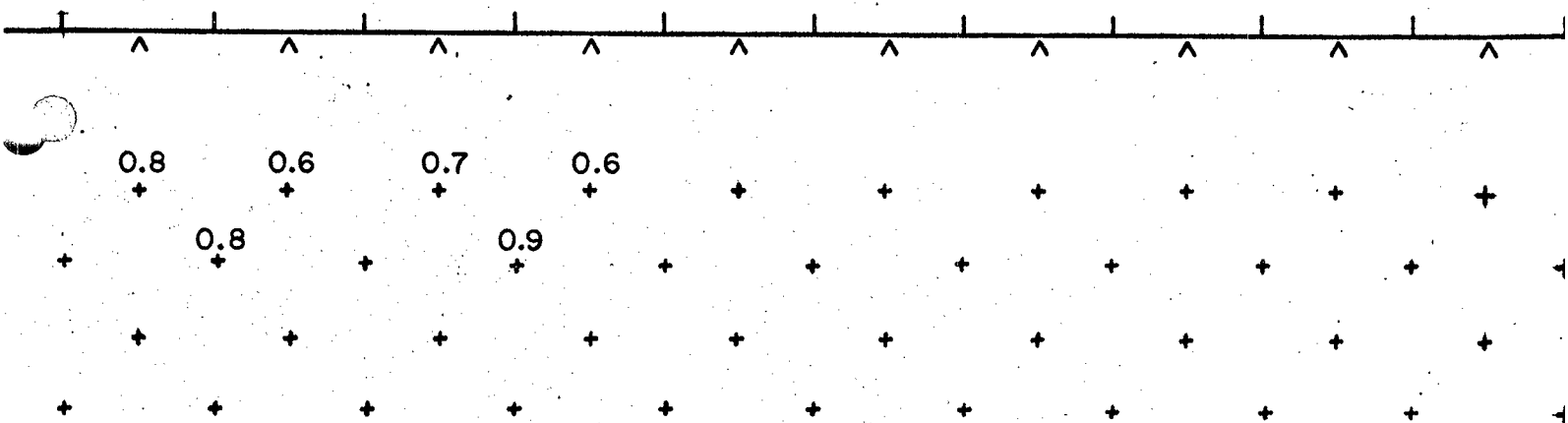
line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400
 operators _____

location _____
 map ref. _____
 line no. 48 N
 bearing _____

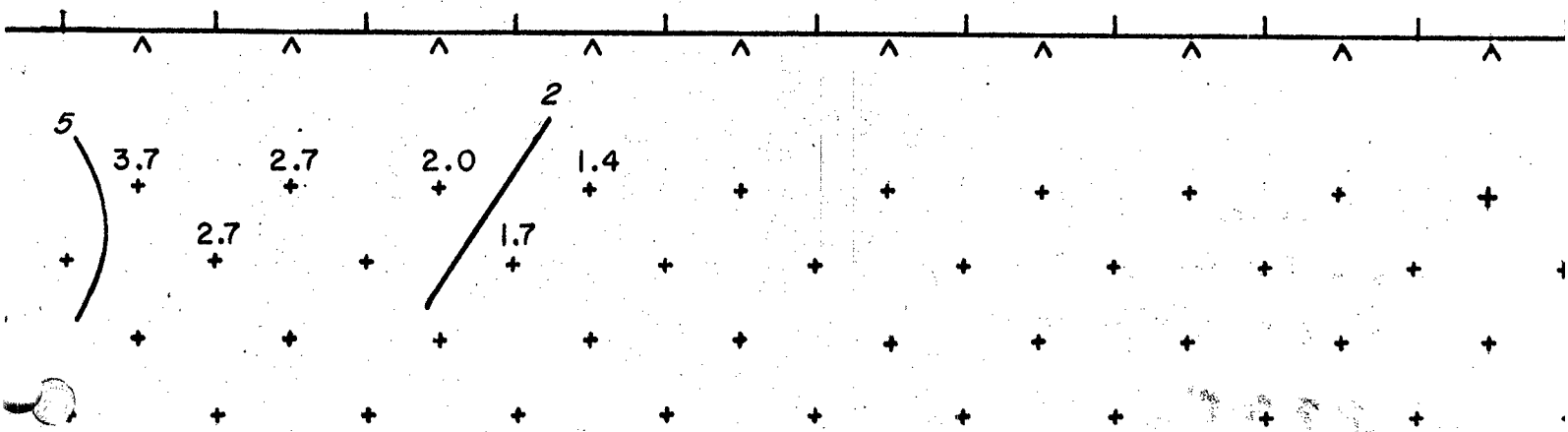
20 24 28 32 36 40E electrode no.



P_a (apparent resistivity)



% FE Frequency effect



(M.F.)_d Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** M/P

INDUCED POLARIZATION SURVEY

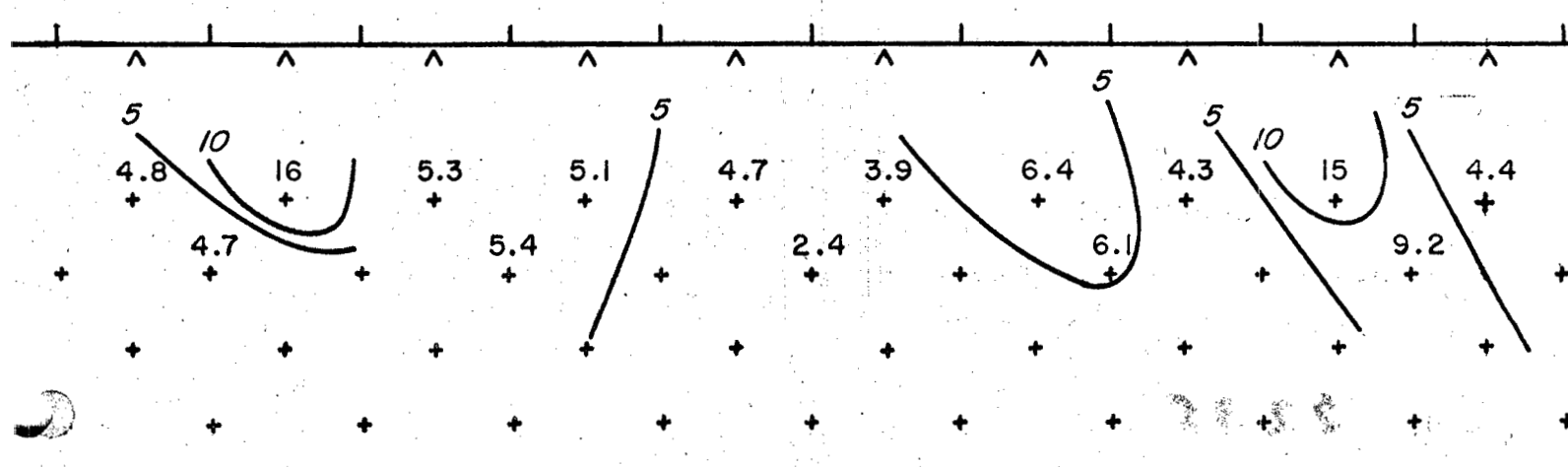
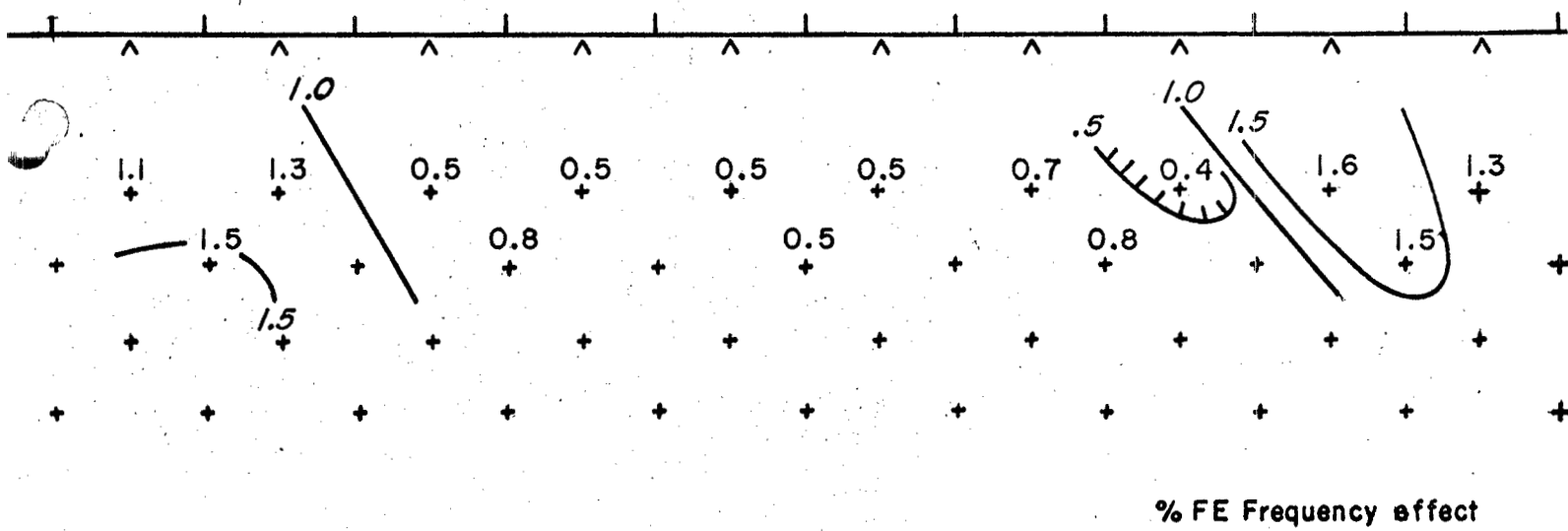
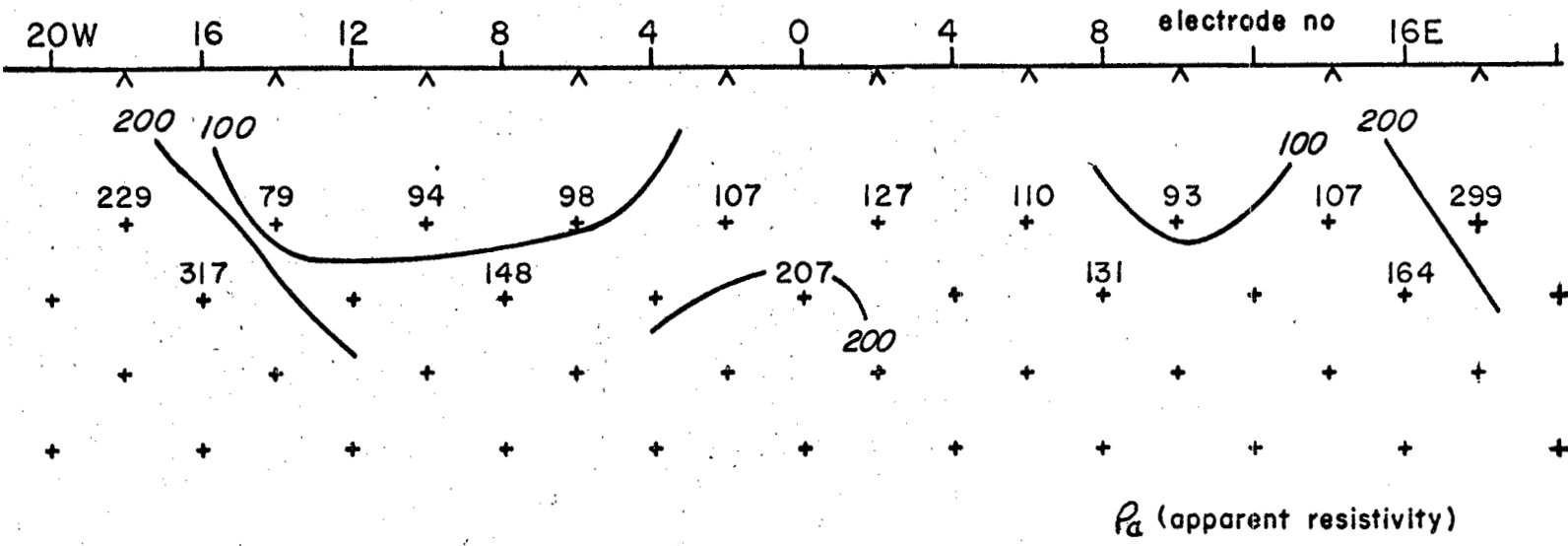
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 56 N
 bearing _____



continued from sheet _____ on sheet _____

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ASSESSMENT REPORT

NO. **2235** MAP.....

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 56 N
 bearing _____

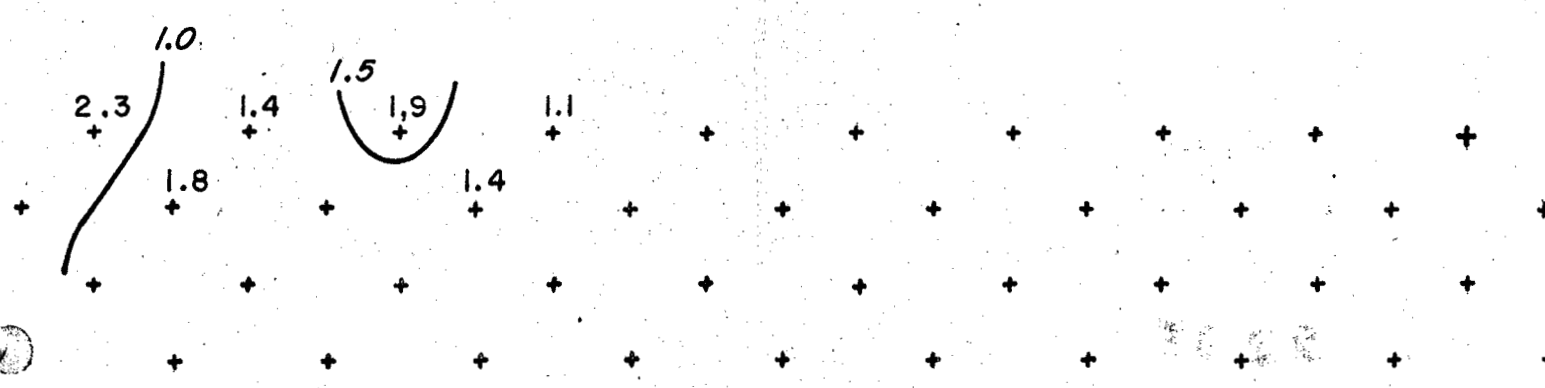
20E 24 28 32 36 40E electrode no



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** MAP.....

INDUCED POLARIZATION SURVEY

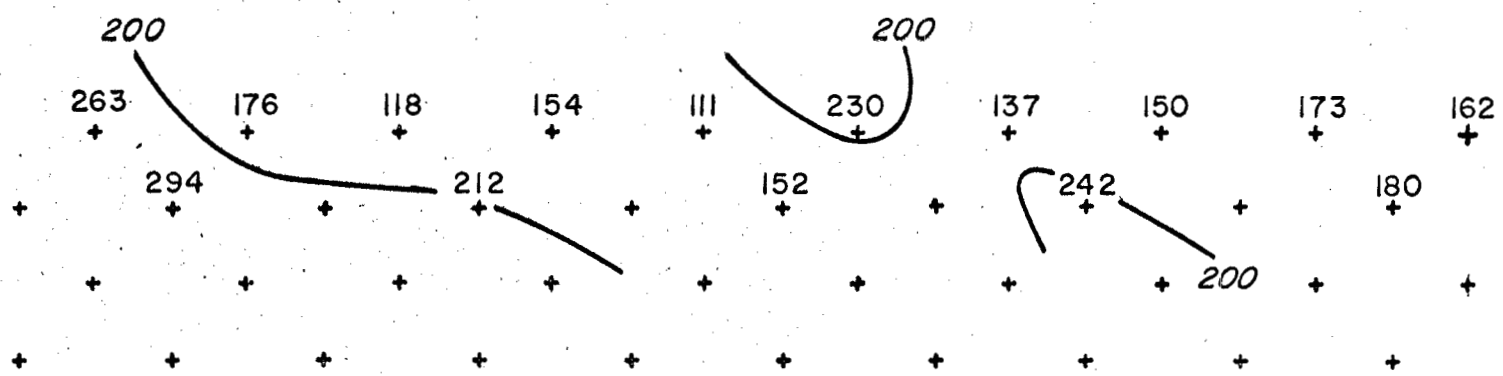
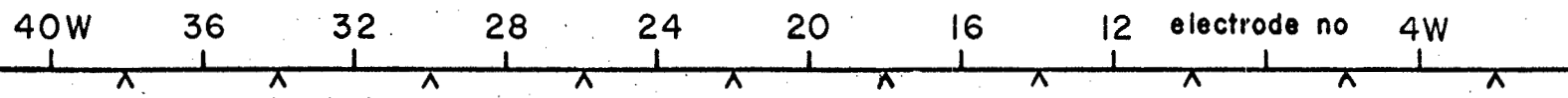
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

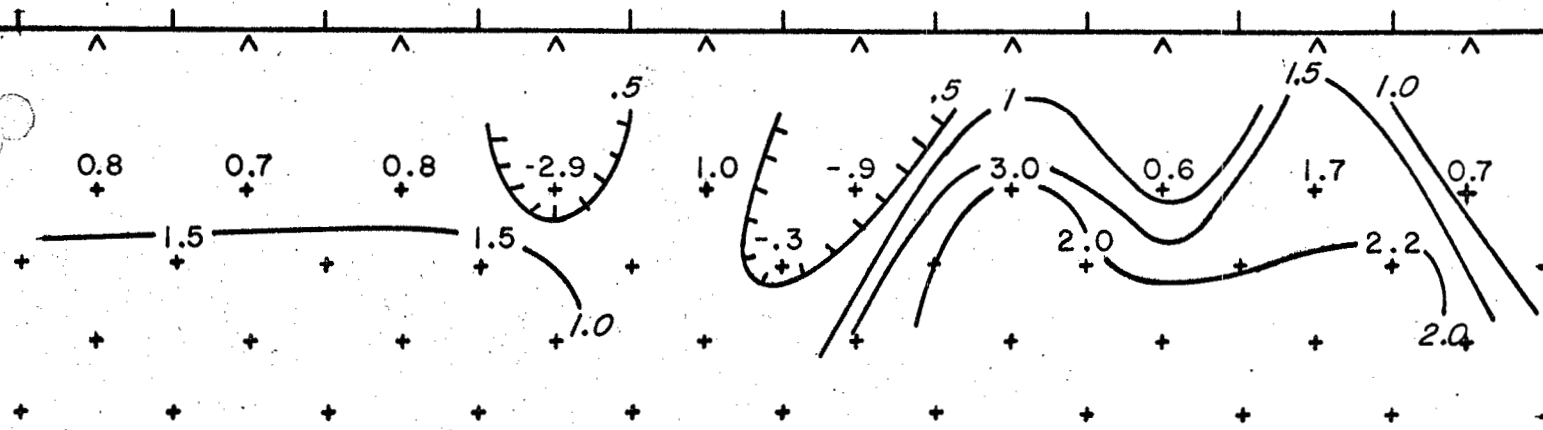
date _____

line location ZENITH II
 frequencies 3 8 .3 cps
 dipole length 400'
 operators _____

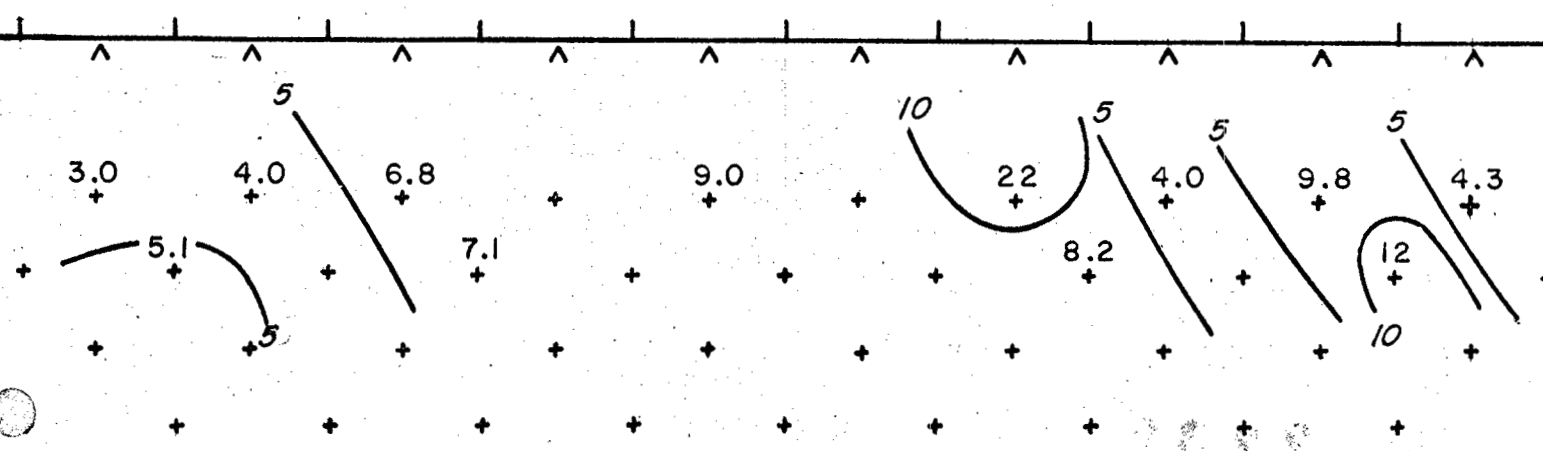
location _____
 map ref. _____
 line no. 64N
 bearing _____



P_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** MAP

INDUCED POLARIZATION SURVEY

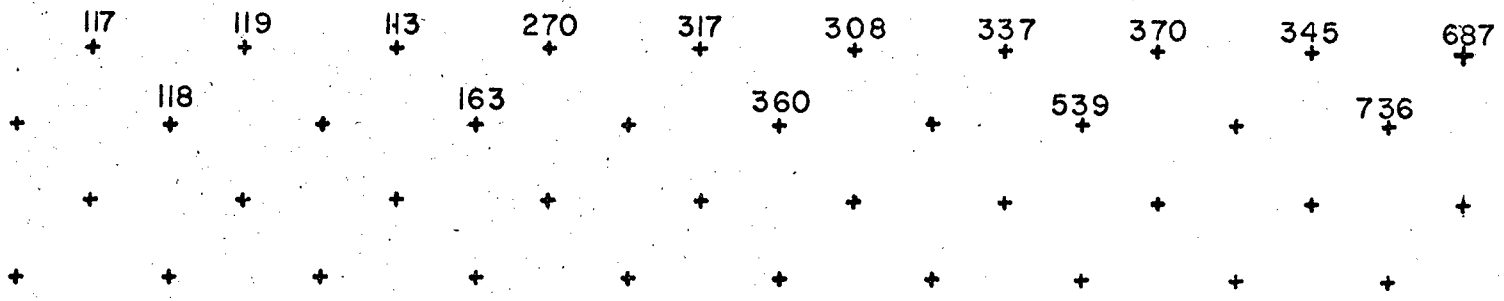
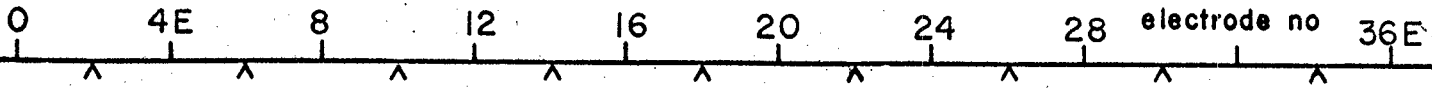
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

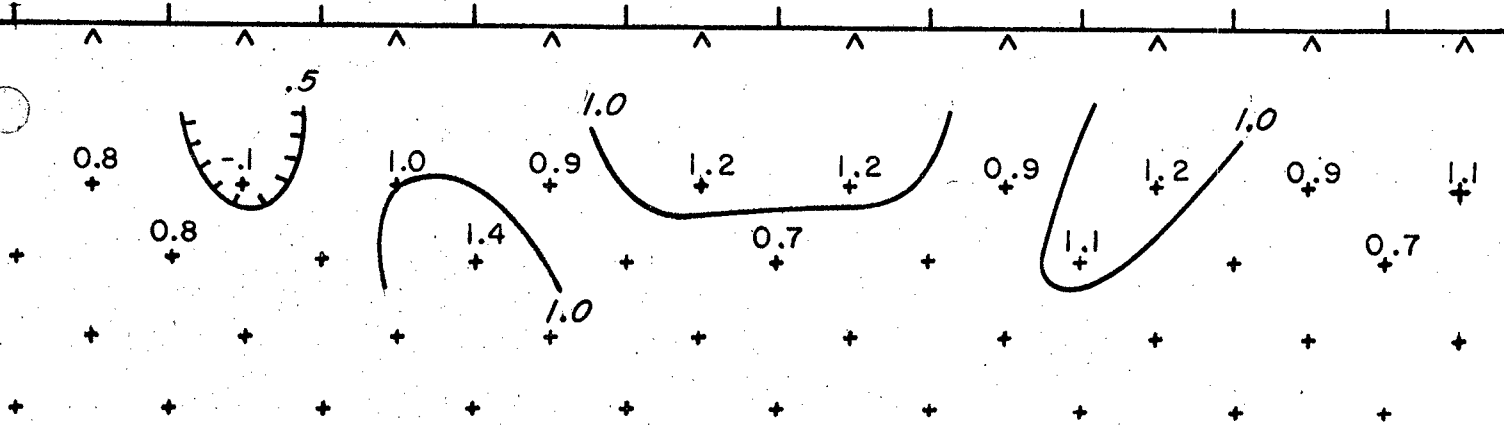
date _____

line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

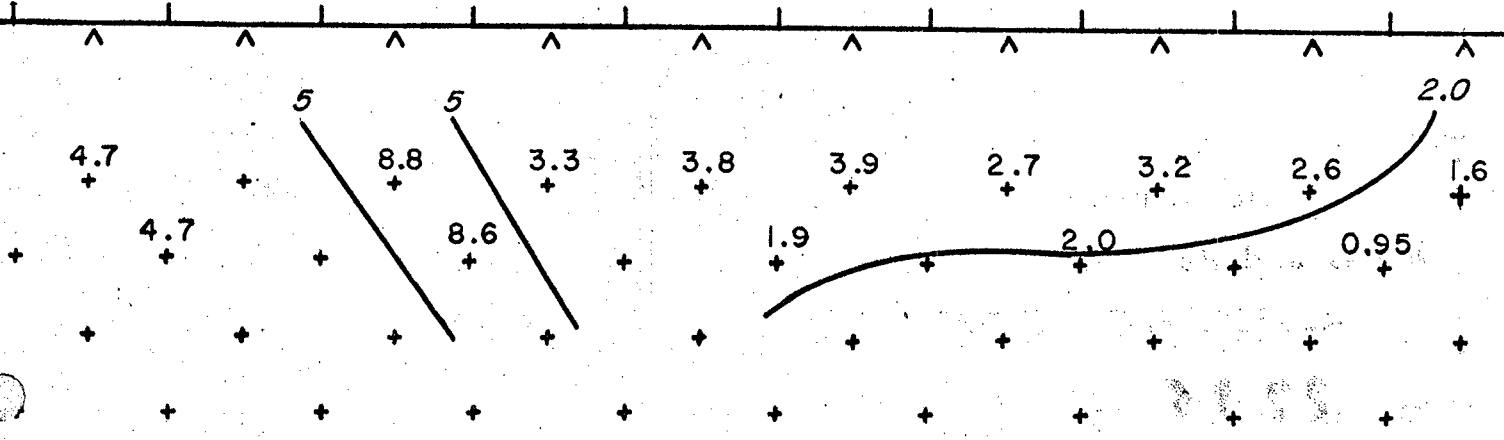
location _____
 map ref. _____
 line no. 64N
 bearing _____



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** MAP.....

INDUCED POLARIZATION SURVEY

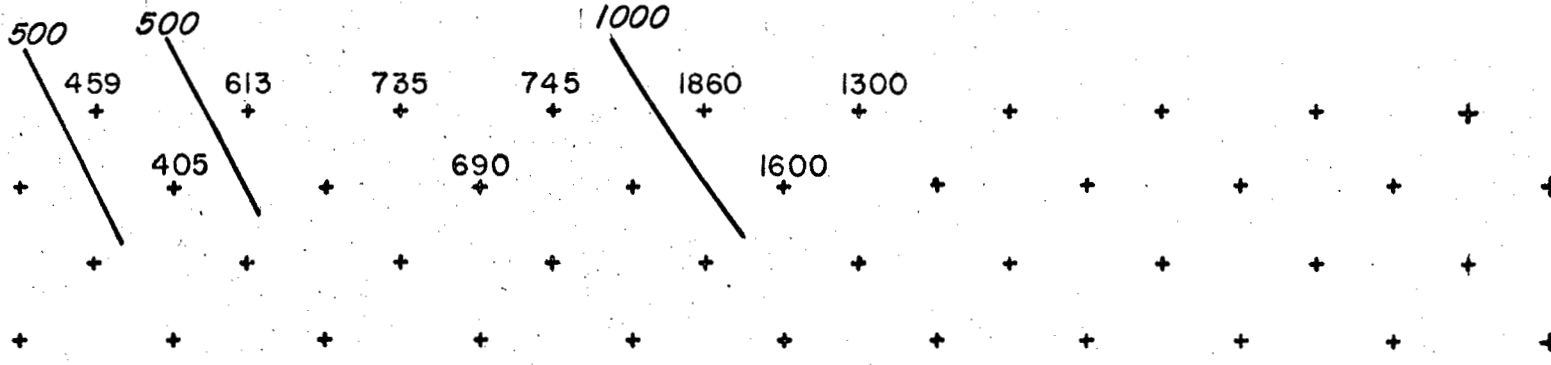
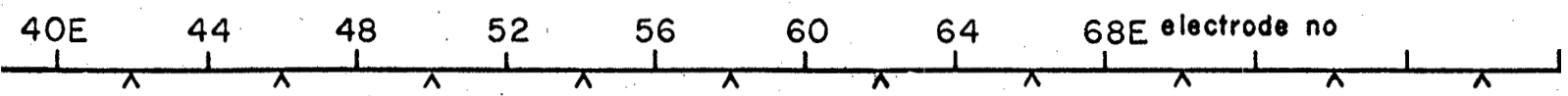
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

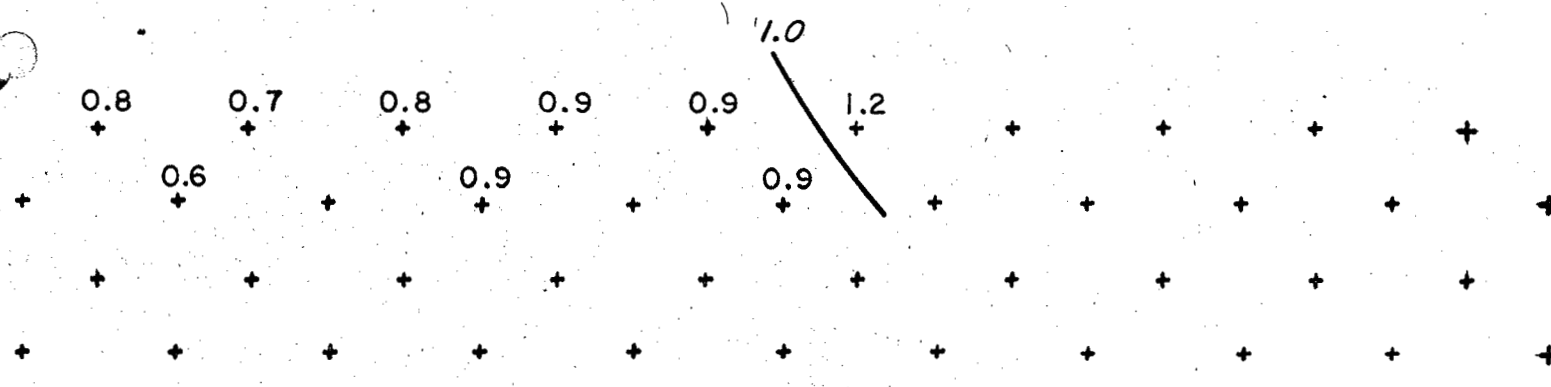
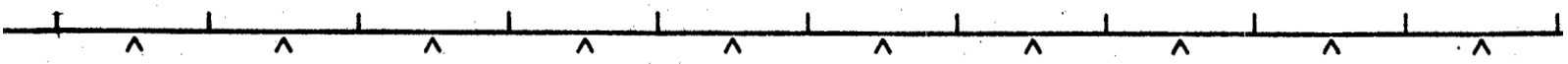
date _____

line location ZENITH II
frequencies 3 8 .3 cps
dipole length 400'
operators _____

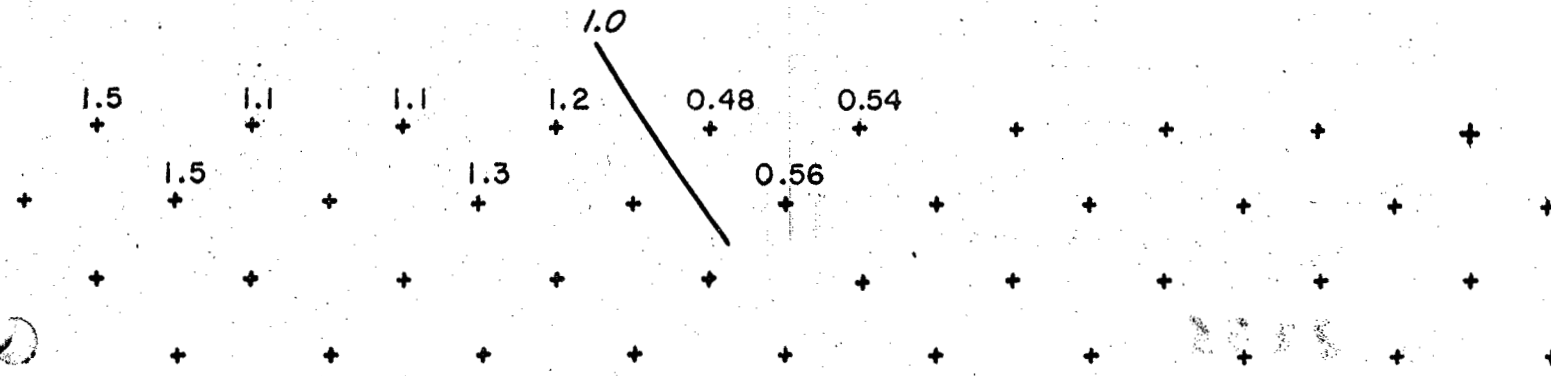
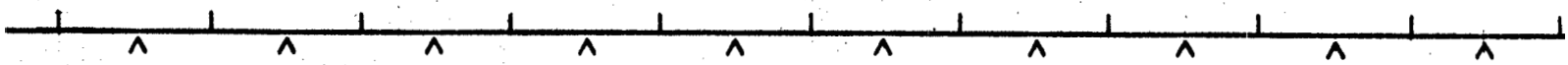
location _____
map ref. _____
line no. 64 N
bearing _____



P_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** M/P

INDUCED POLARIZATION SURVEY

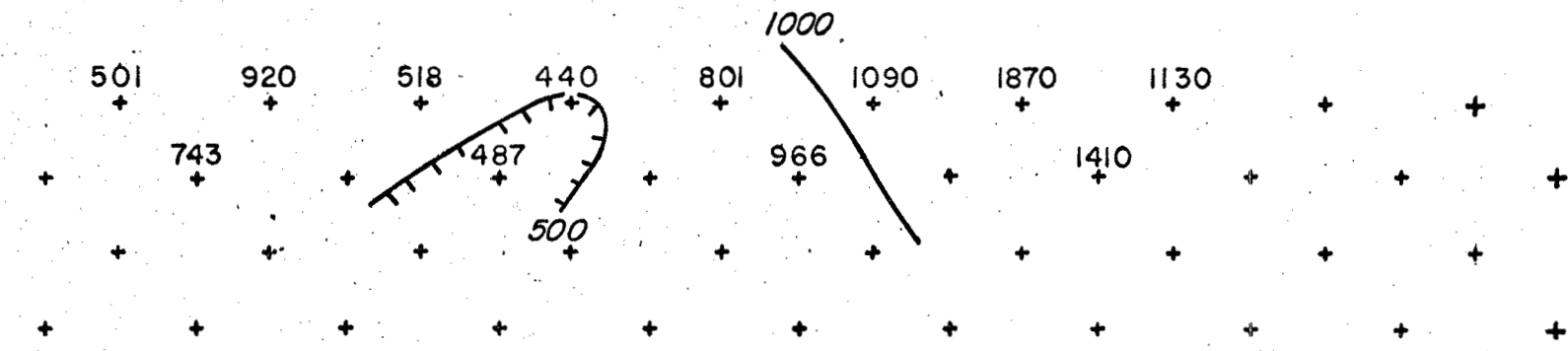
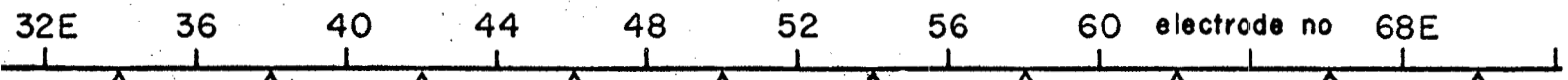
Geoscience Incorporated

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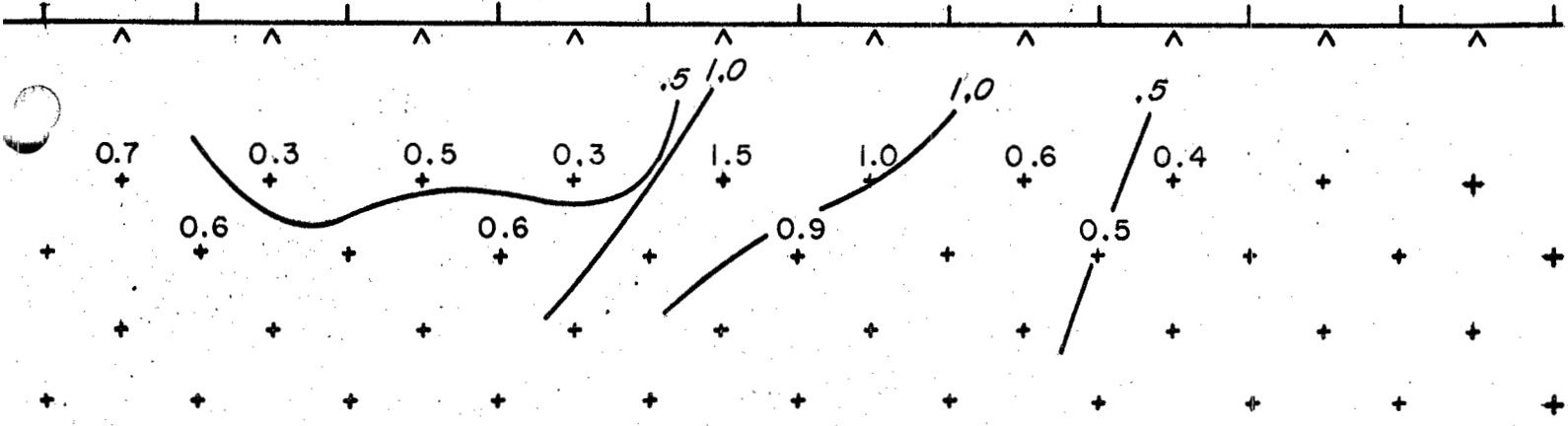
date _____

line location ZENITH II
 frequencies 3 8 .3 cps
 dipole length 400'
 operators _____

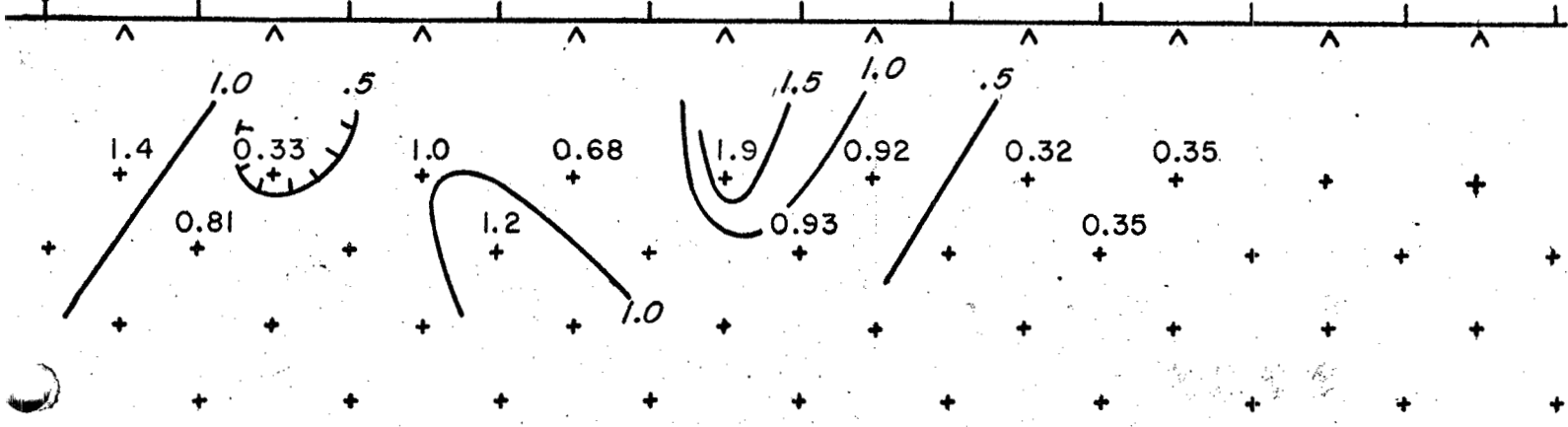
location _____
 map ref. _____
 line no. 68N
 bearing _____



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** MAP

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

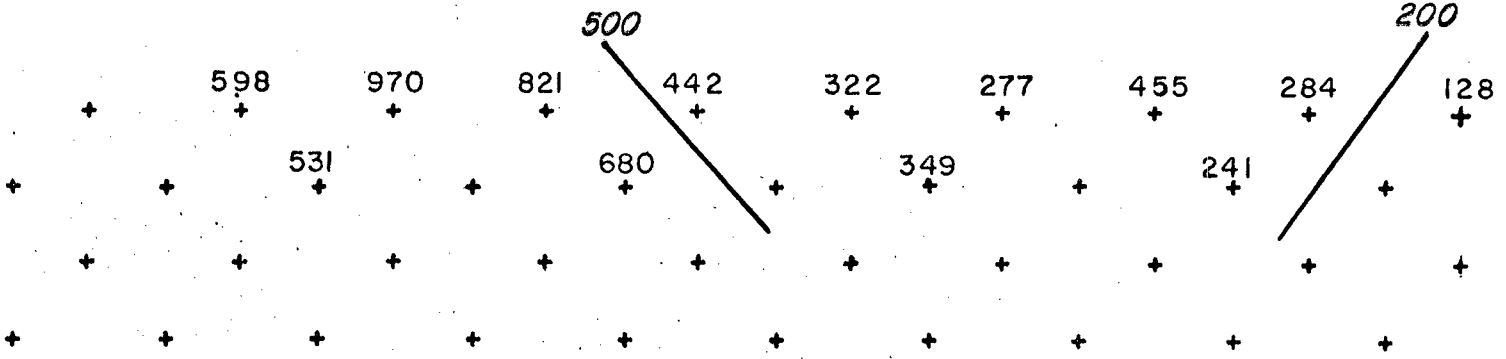
199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

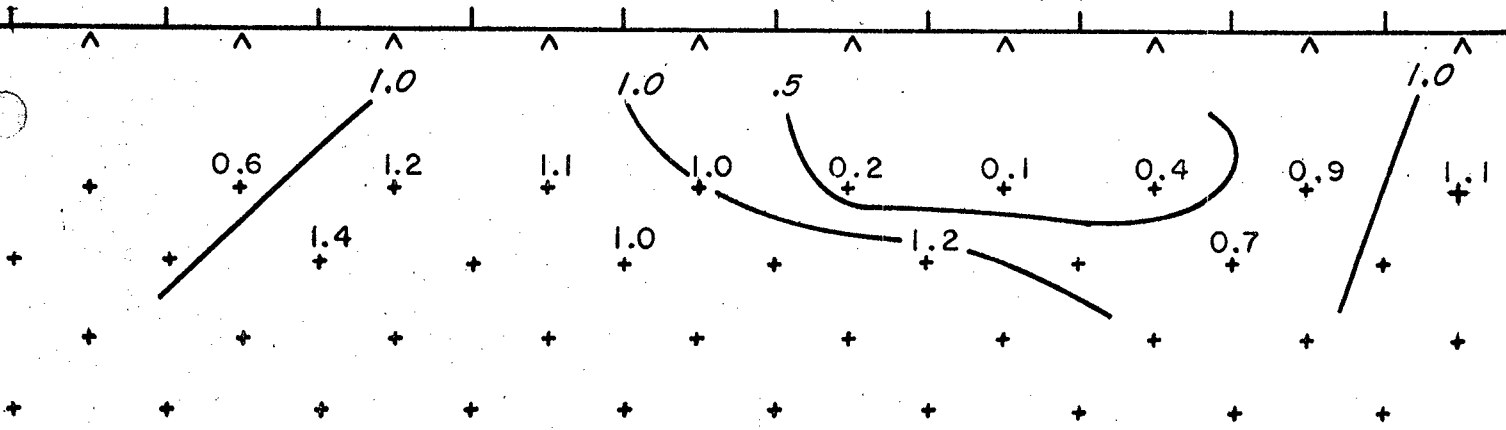
line location ZENITH II
 frequencies 3 8 .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 72 N
 bearing _____

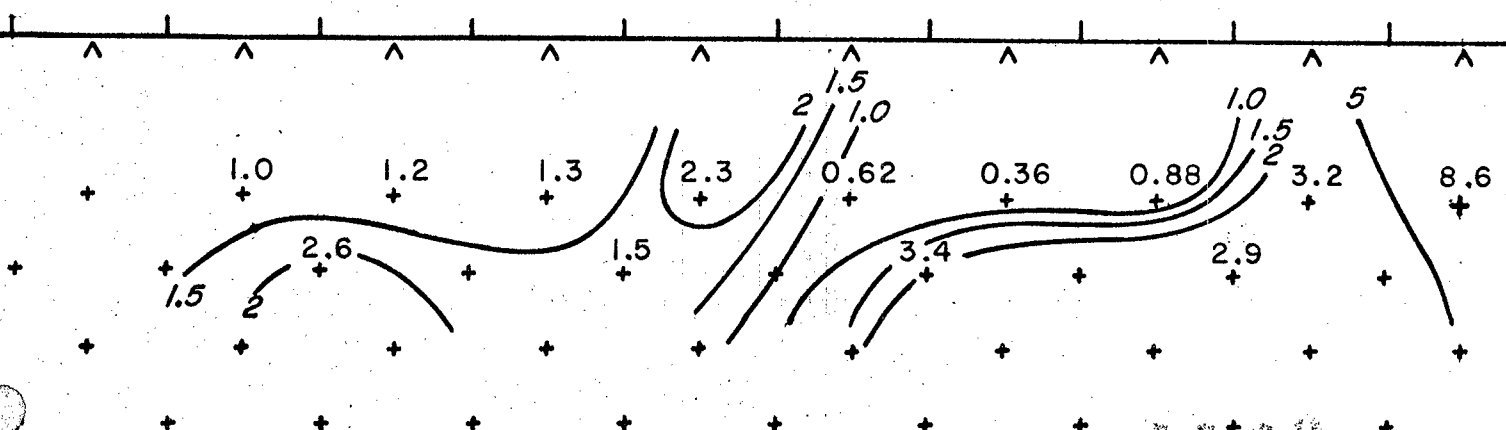
68W 64 60 56 52 48 44 40 electrode no 32W



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
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NO. **2235** MAP

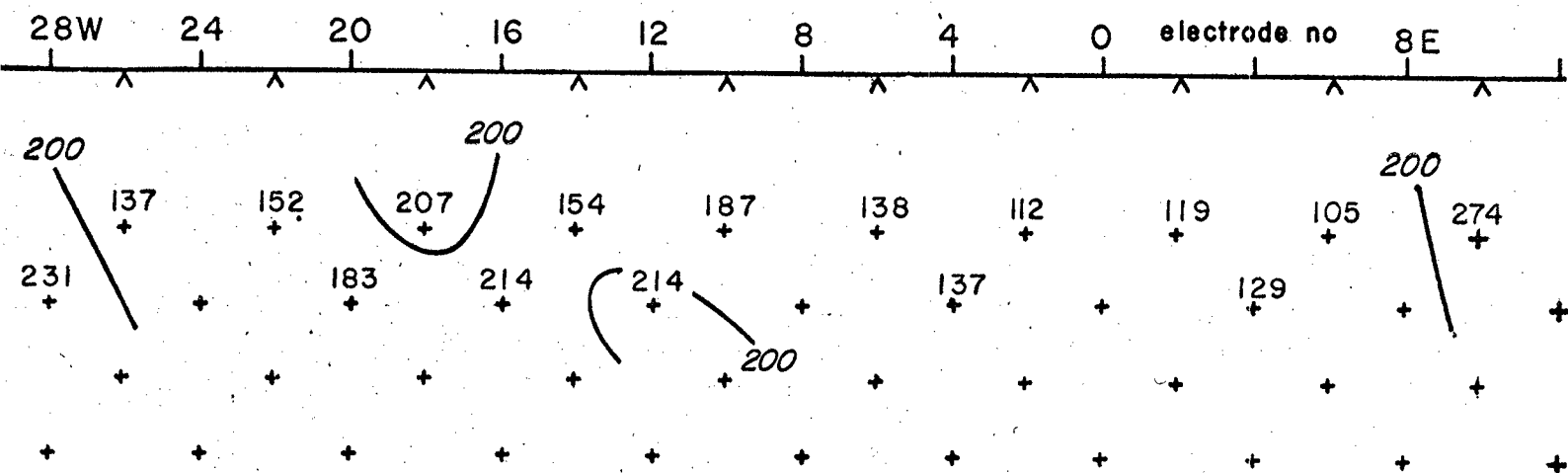
INDUCED POLARIZATION SURVEY

Geoscience Incorporated

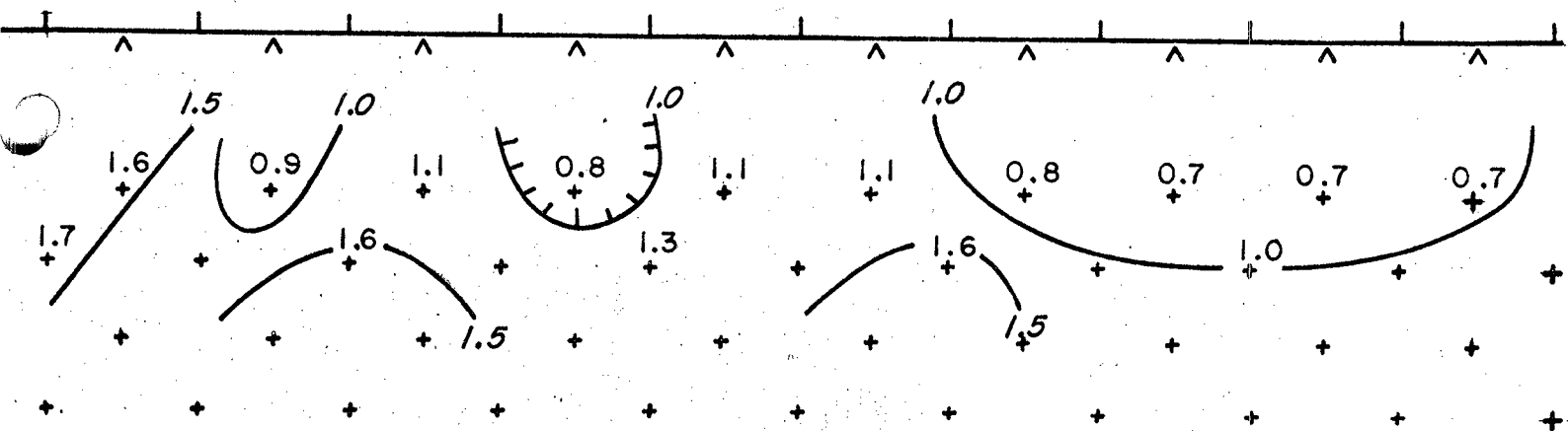
199 BENT STREET, CAMBRIDGE, MASS, 02141

line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

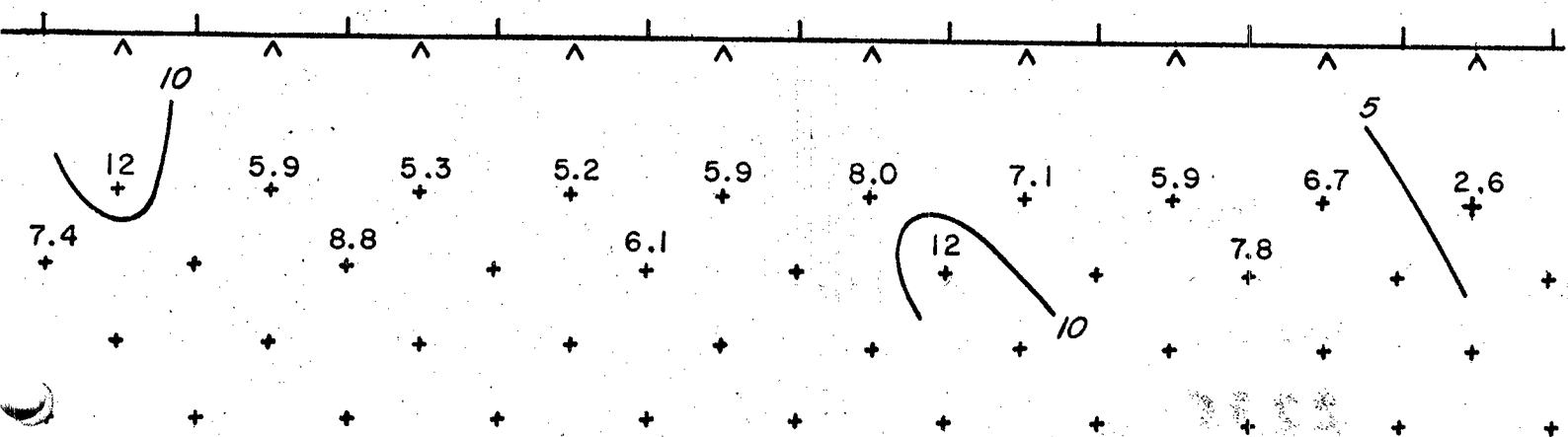
location _____ date _____
 map ref. _____
 line no. 72N
 bearing _____



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 2235 MAP

INDUCED POLARIZATION SURVEY

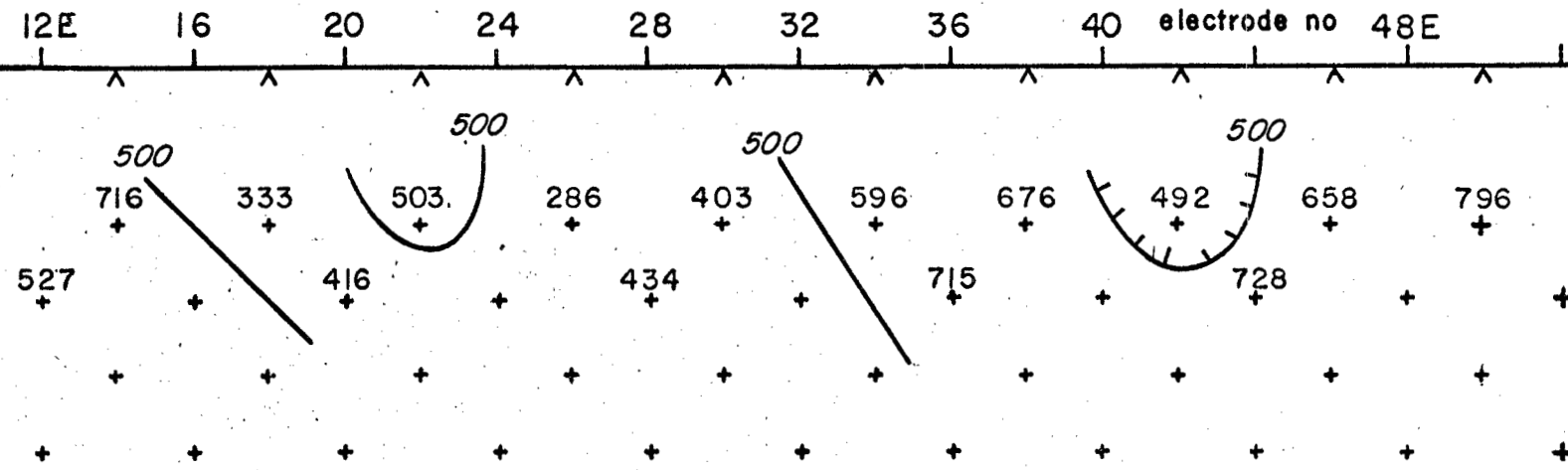
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

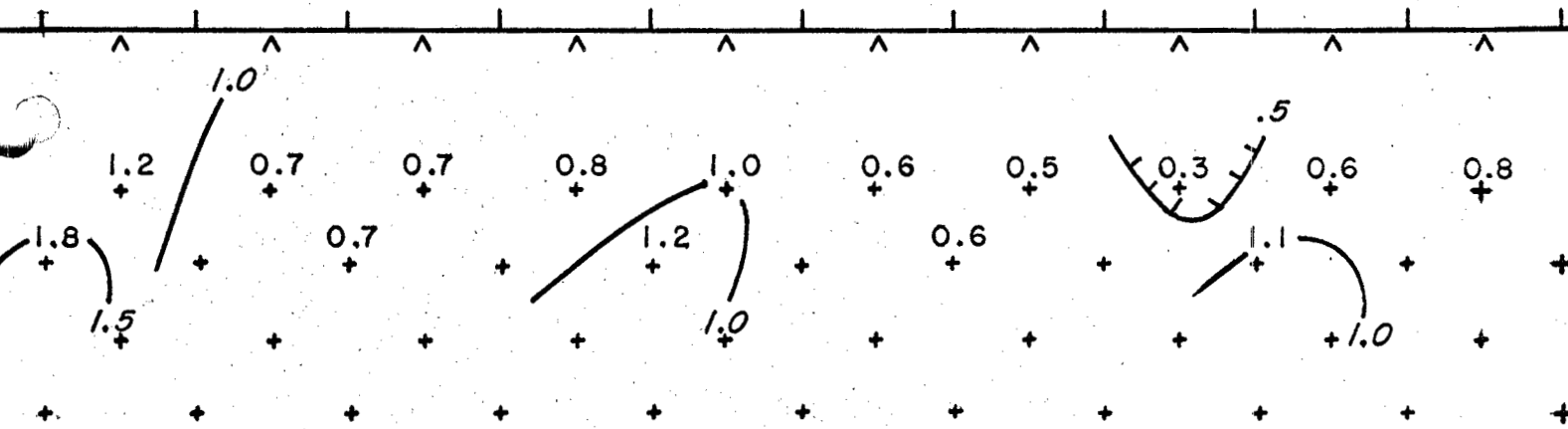
date _____

line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

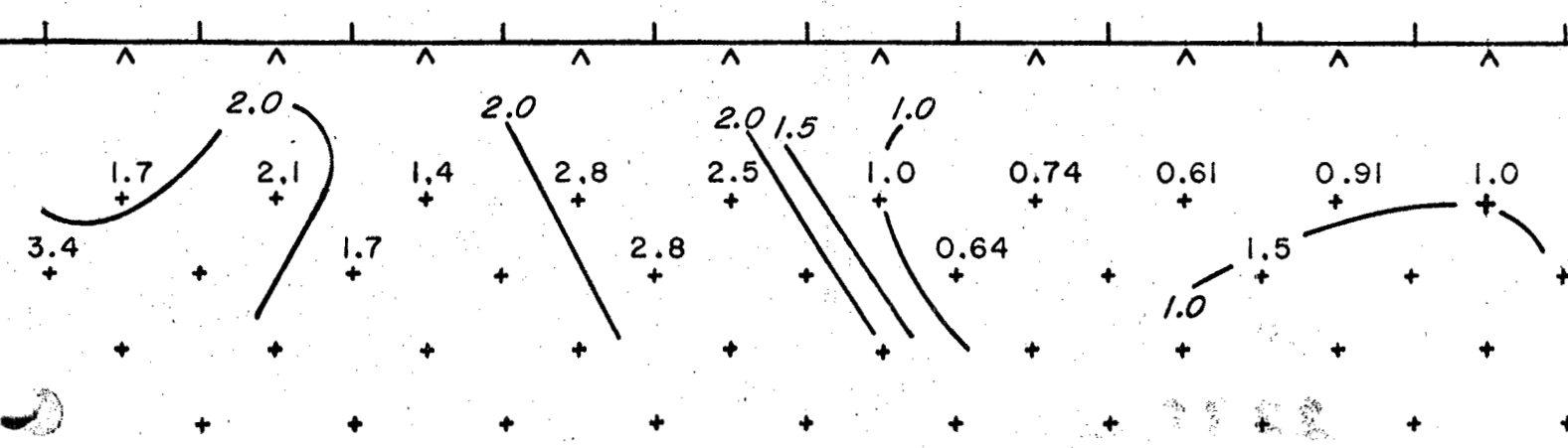
location _____
 map ref. _____
 line no. 72N
 bearing _____



P_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

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Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** MAP

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

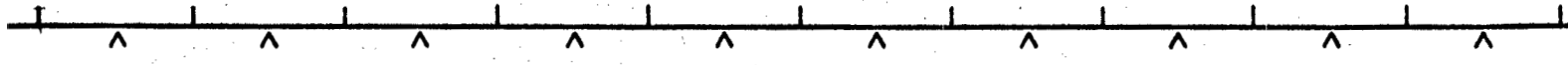
date _____

line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

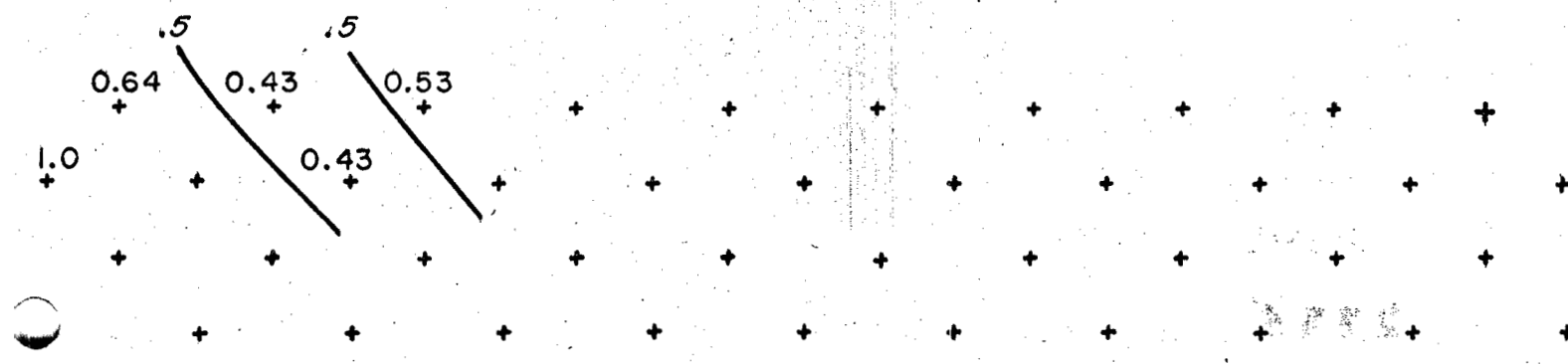
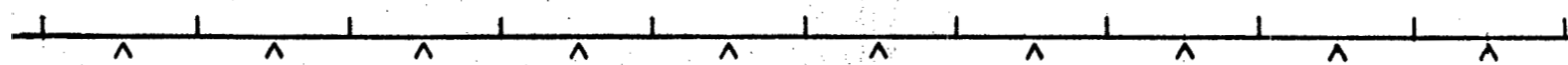
location _____
 map ref. _____
 line no. 72 N
 bearing _____



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
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INDUCED POLARIZATION SURVEY

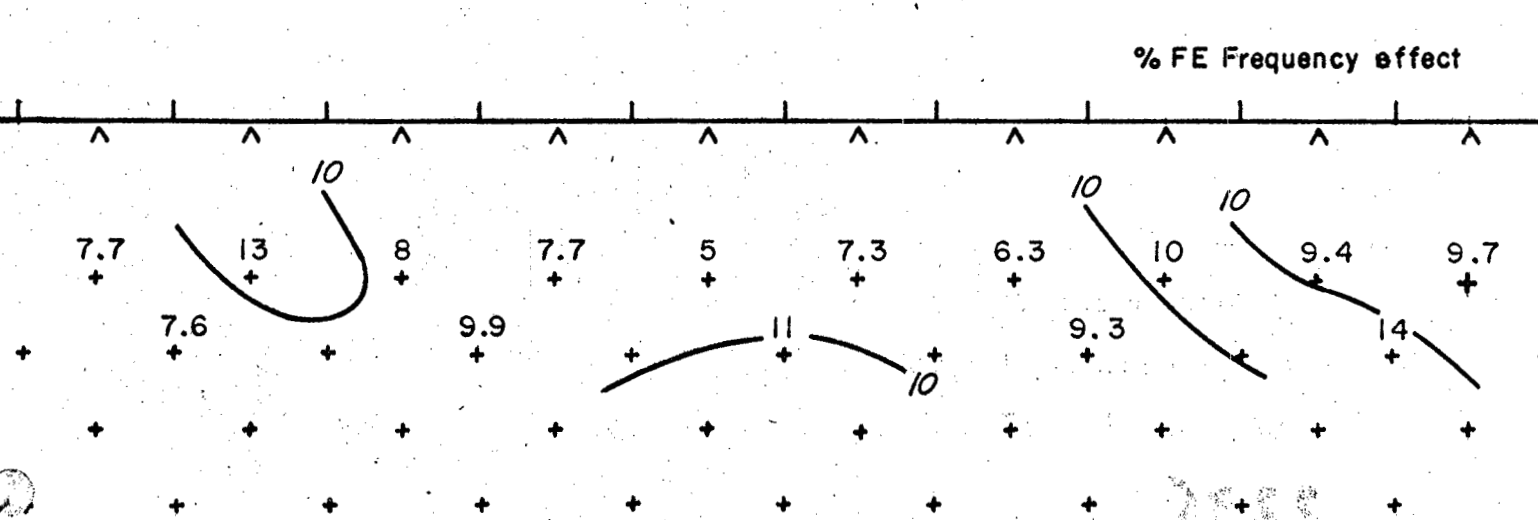
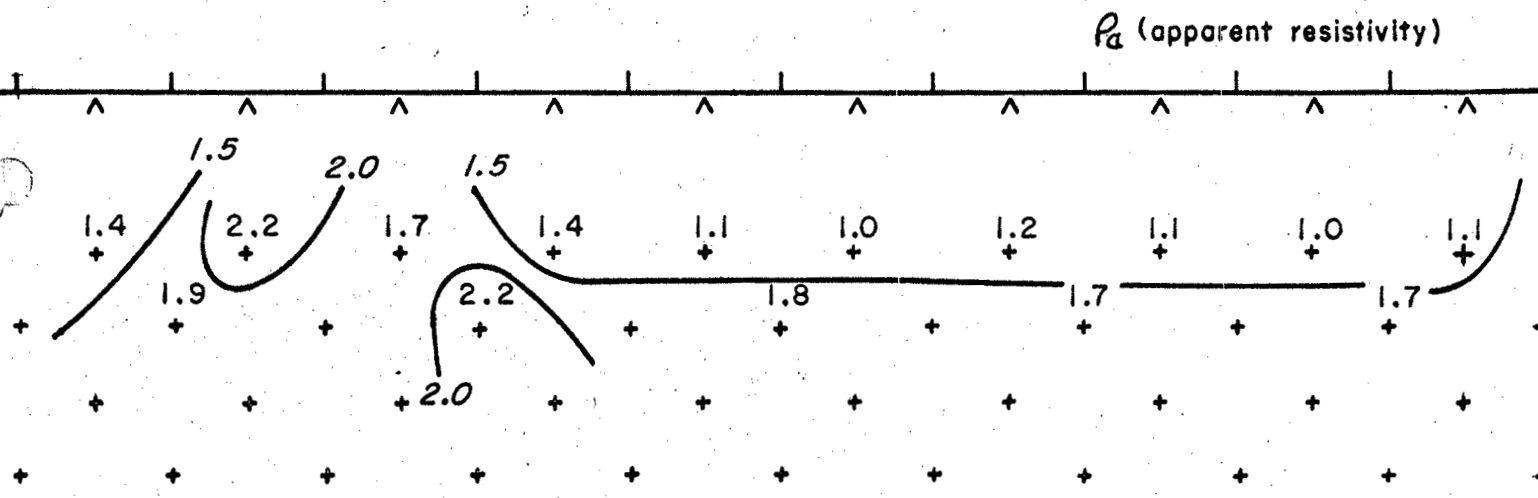
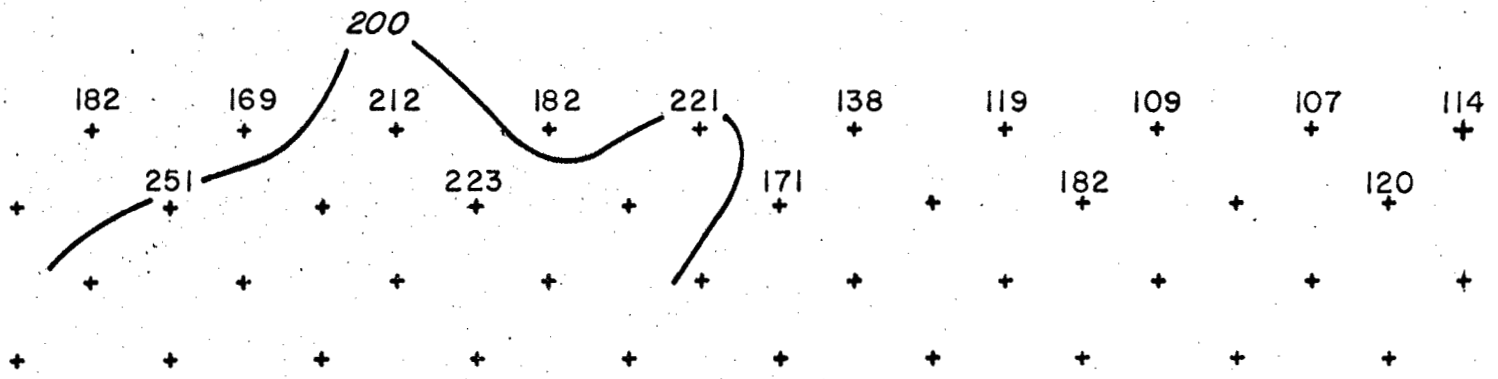
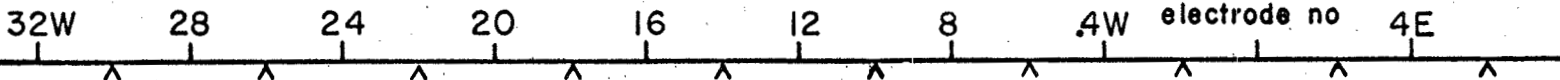
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

line location ZENITH II
 frequencies 3 8 .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 76 N
 bearing _____



continued from sheet _____ on sheet _____

Department of
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ASSESSMENT REPORT

NO. **2235** MAP.....

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

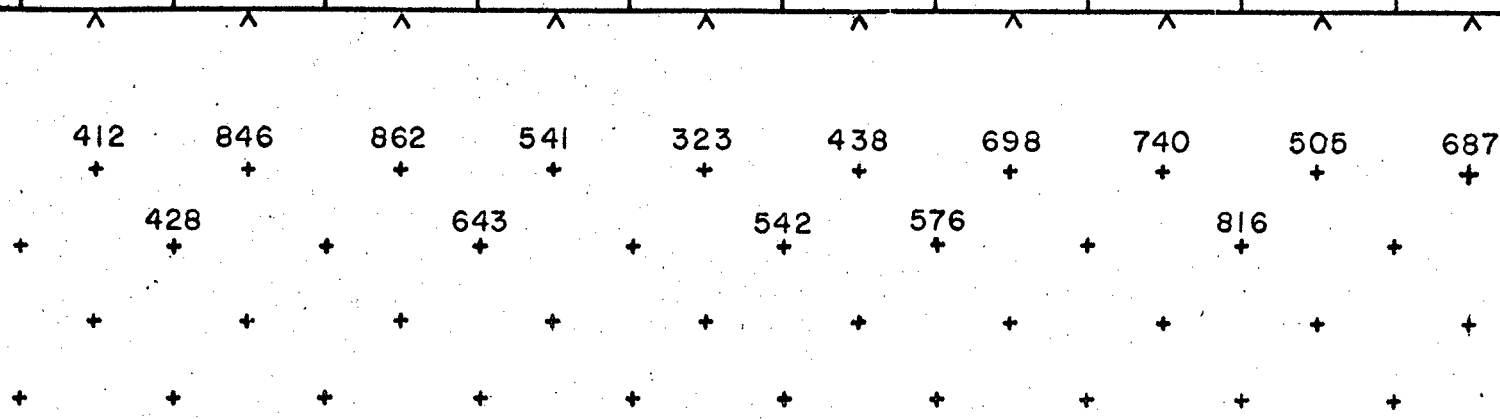
199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

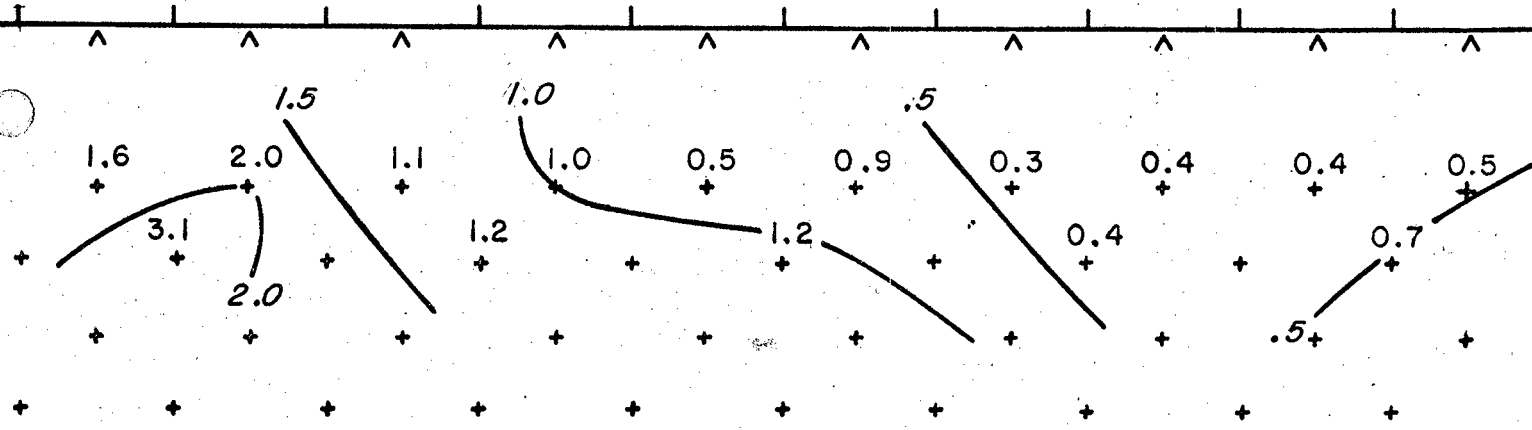
line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 76 N
 bearing _____

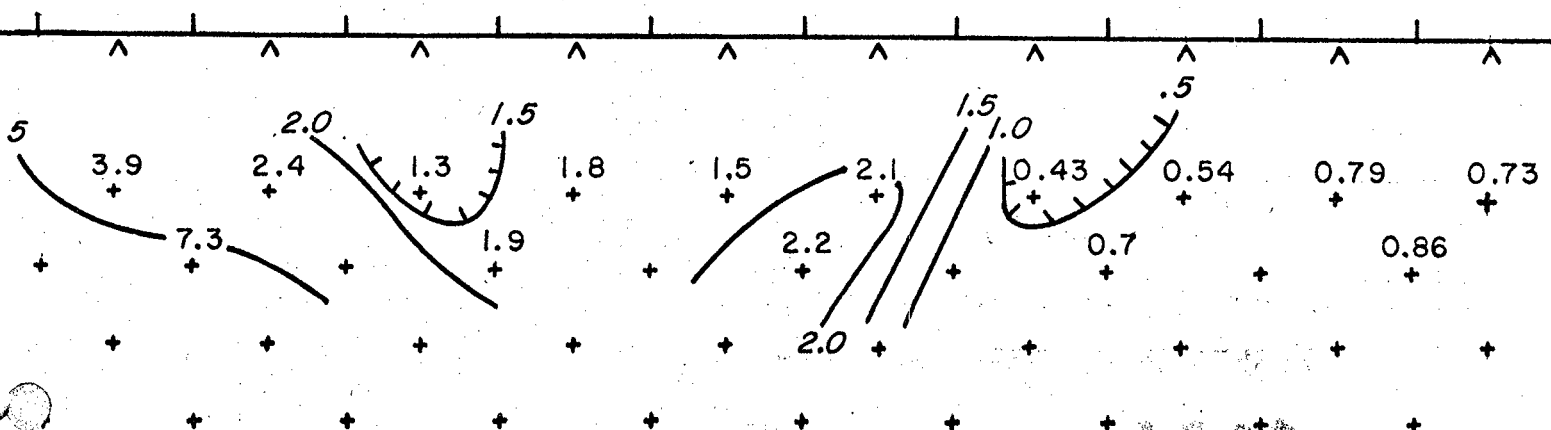
8E 12 16 20 24 28 32 36 electrode no 44E



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
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NO. **2235** MAP

INDUCED POLARIZATION SURVEY

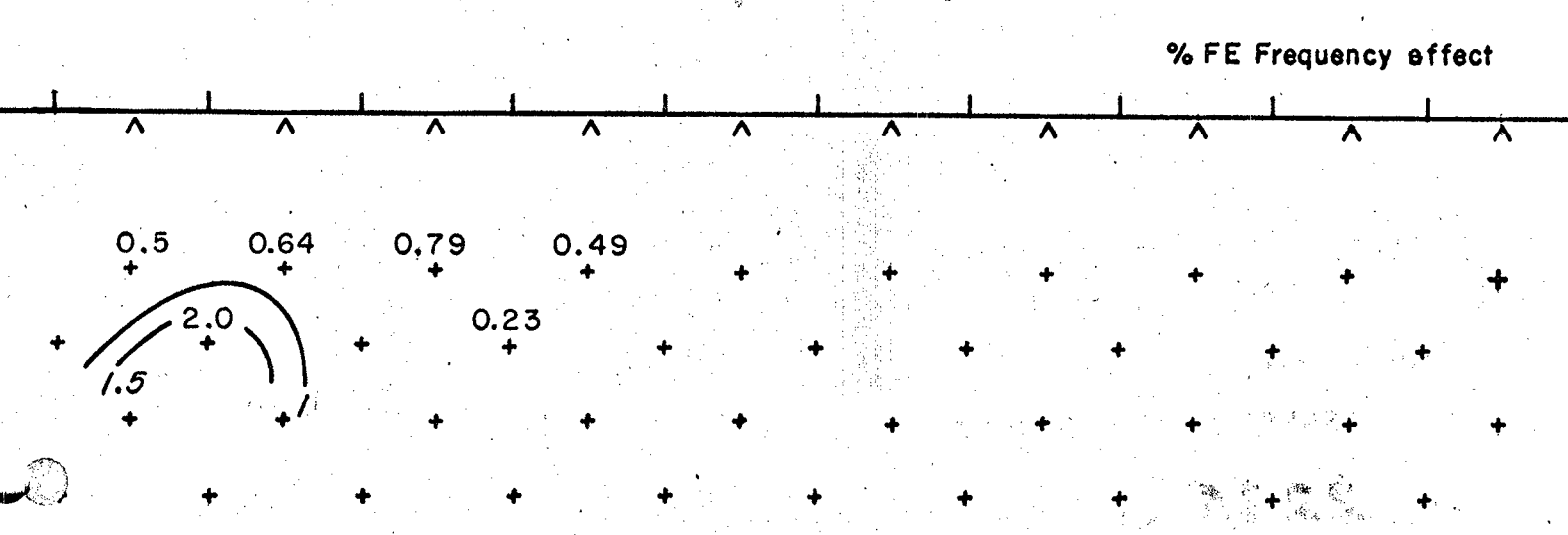
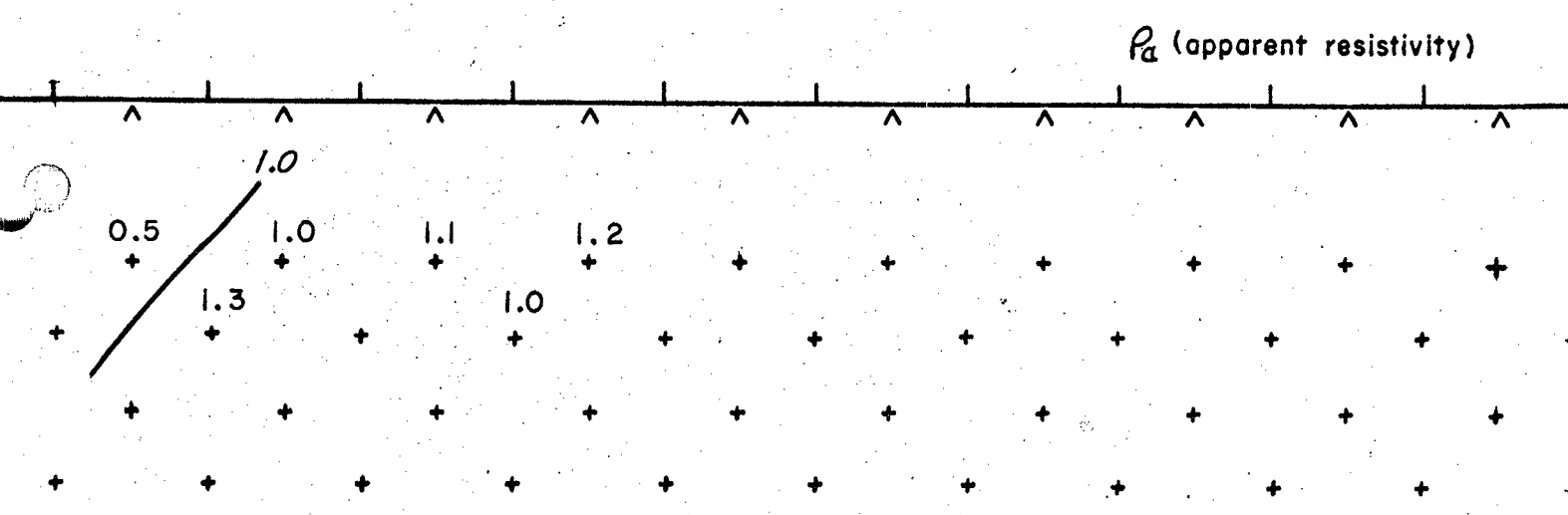
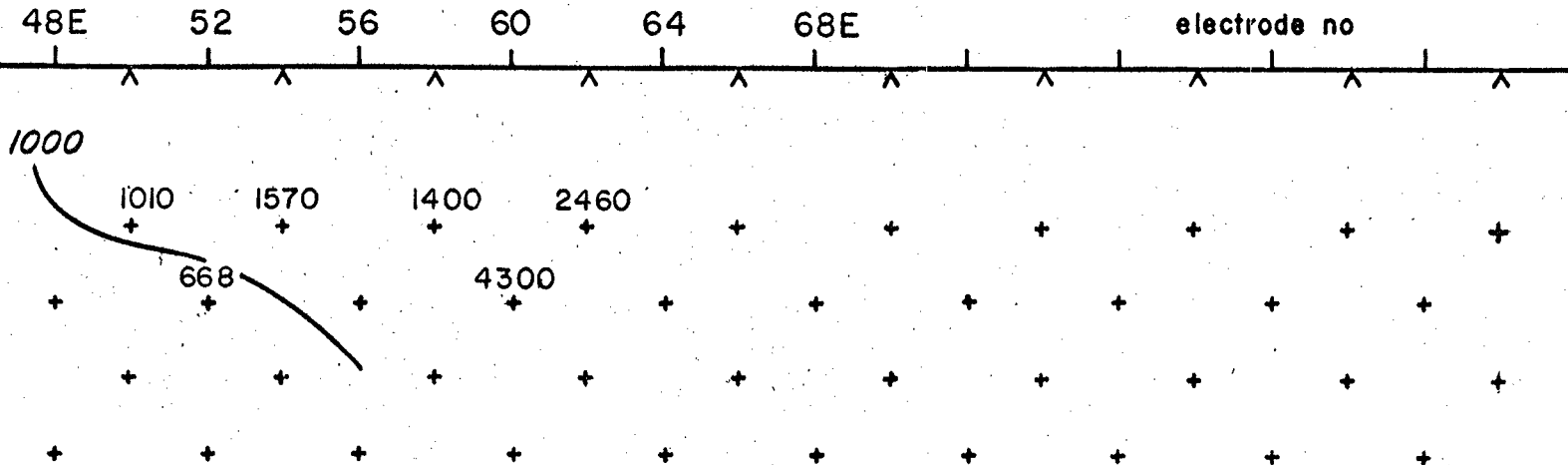
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 76N
 bearing _____



continued from sheet _____ on sheet _____

(M.F.)_a Metal Factor

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NO. **2235** MAP

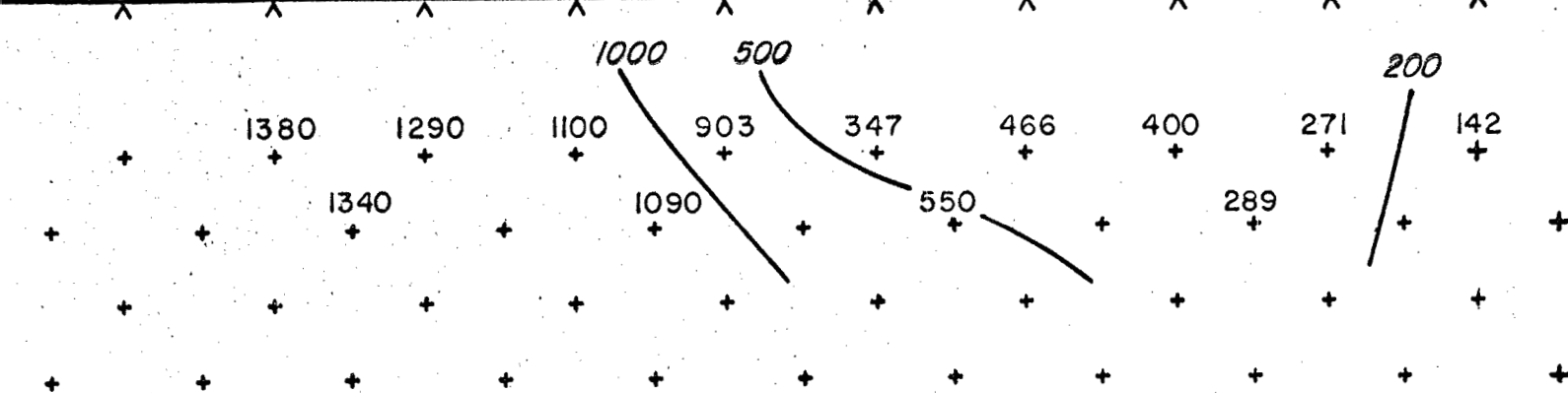
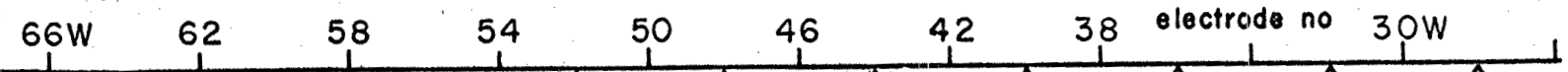
INDUCED POLARIZATION SURVEY

Geoscience Incorporated
199 BENT STREET, CAMBRIDGE, MASS, 02141

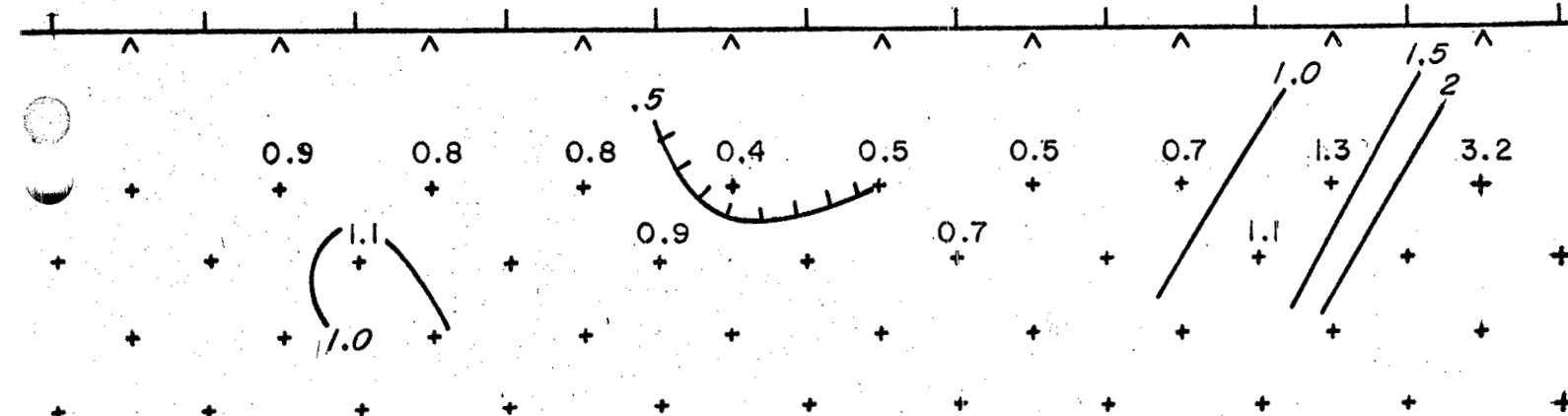
date _____

line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400
 operators _____

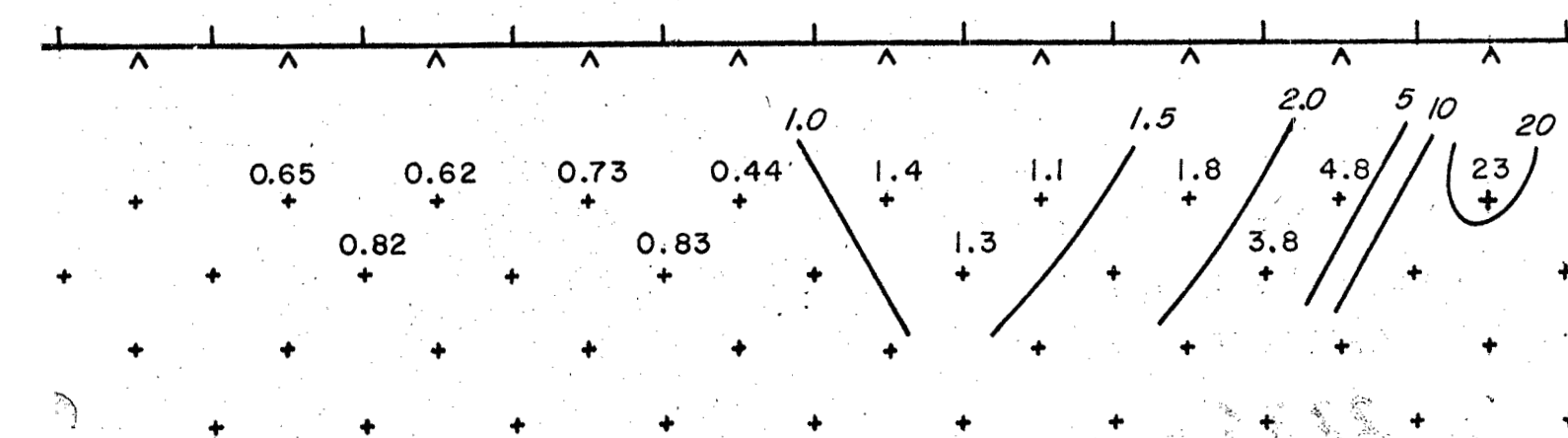
location _____
 map ref. _____
 line no. 80N
 bearing _____



P_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
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NO. **2235** MAP

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

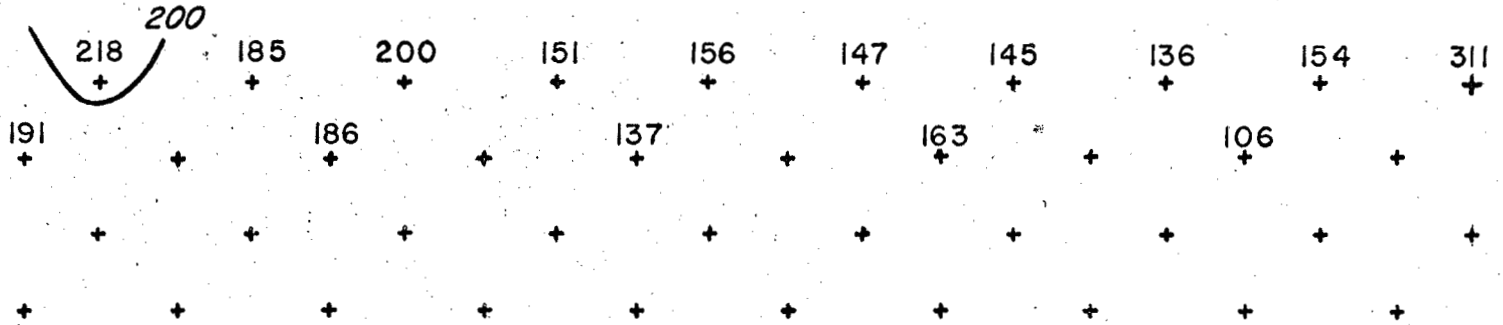
199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

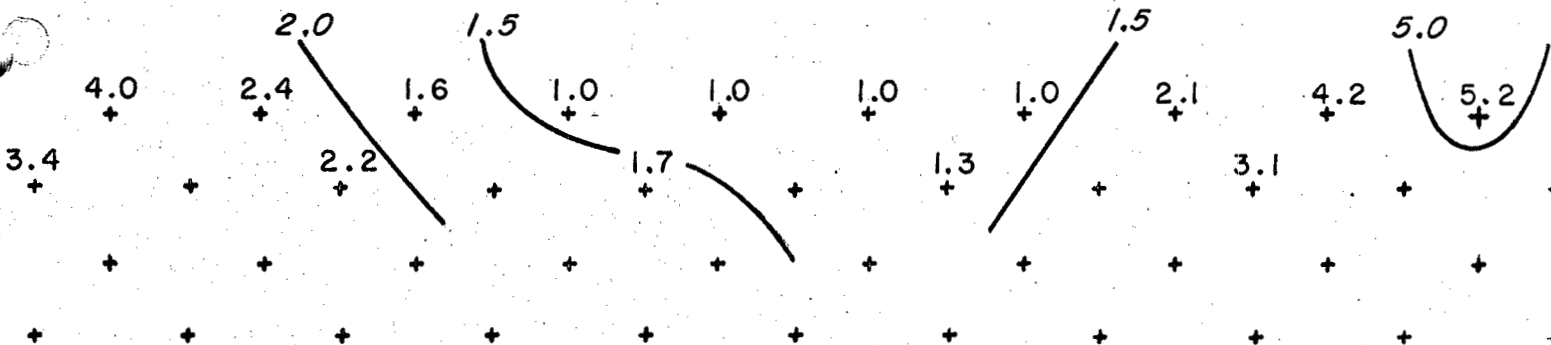
line location ZENITH II
 frequencies 3 8 .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 80 N
 bearing _____

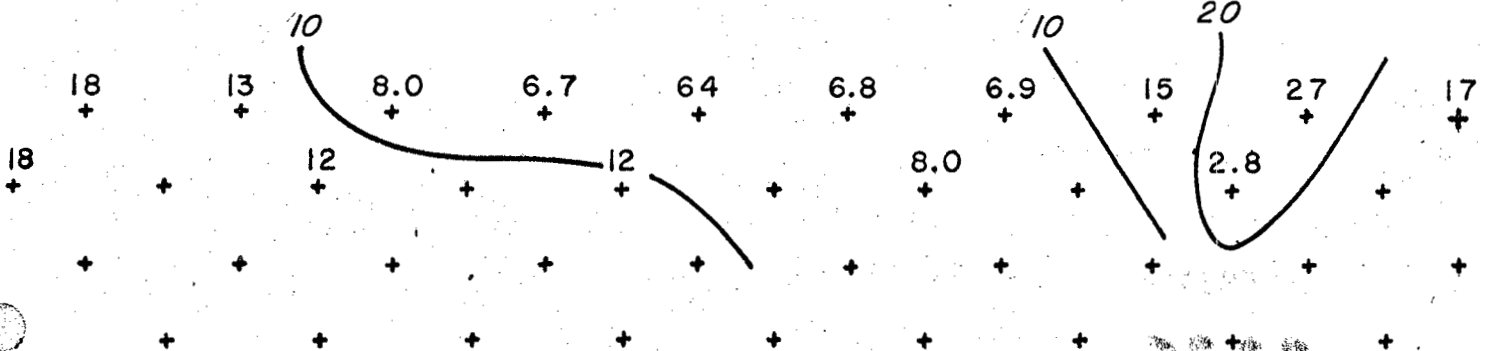
26W 22 18 14 10 6 2W 2 electrode no 10E



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

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NO. **2235** MAP.....

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NO. **2235** MAP

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

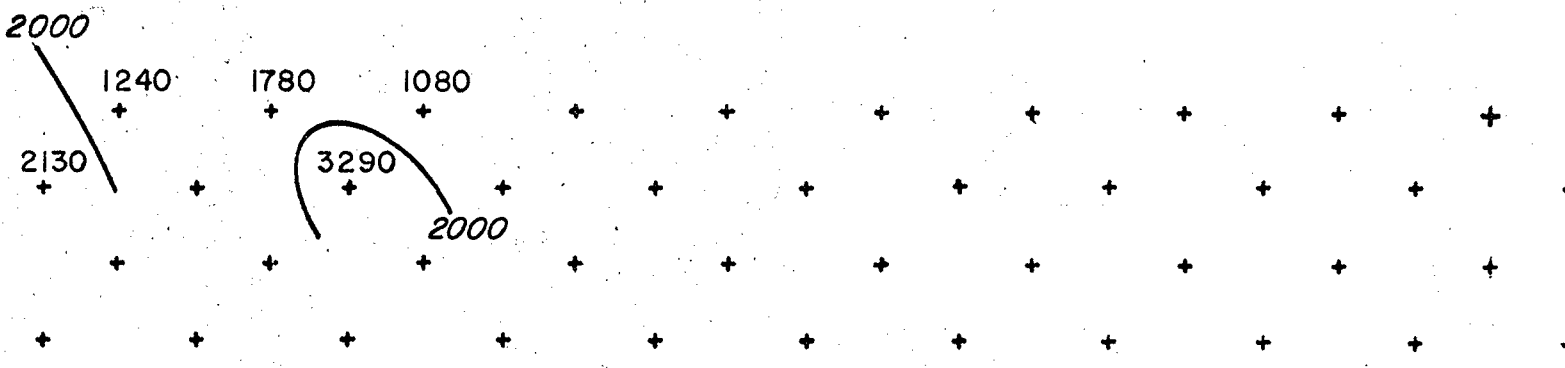
199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

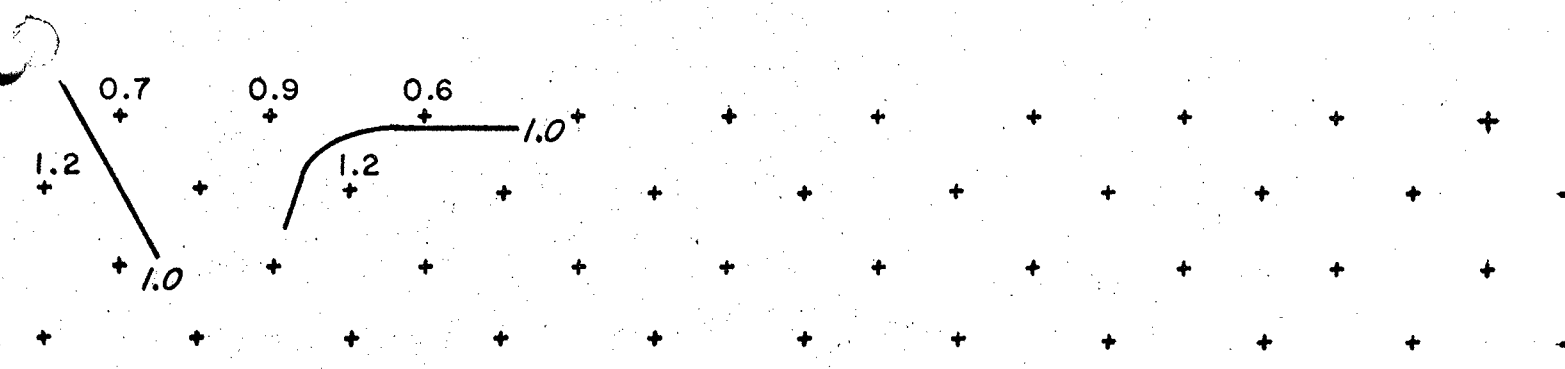
line location ZENITH II
frequencies 3 8 .3 cps
dipole length 400'
operators _____

location _____
map ref. _____
line no. 80 N
bearing _____

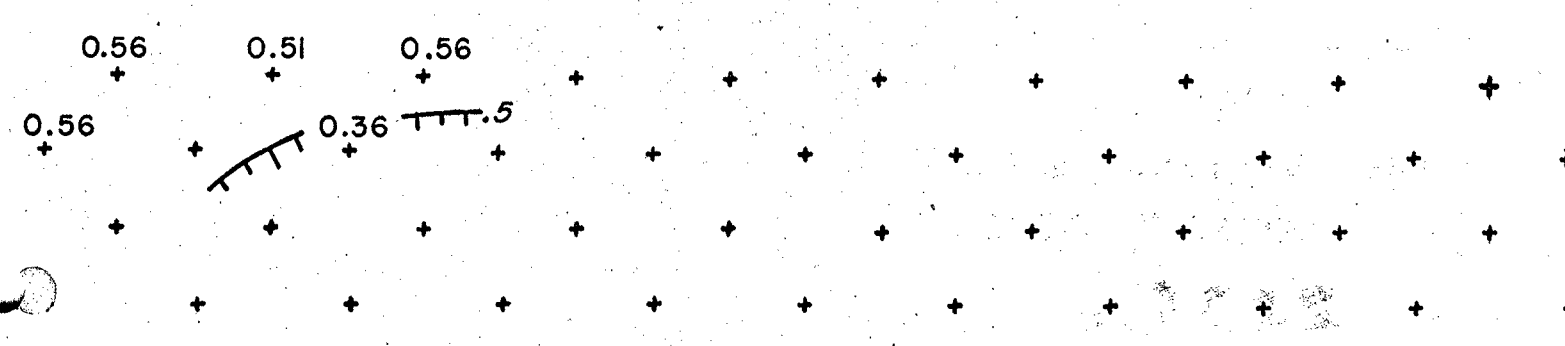
54E 58 62 66 70 74 78 82 electrode no 90E



P_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
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NO. **2235** WAP

INDUCED POLARIZATION SURVEY

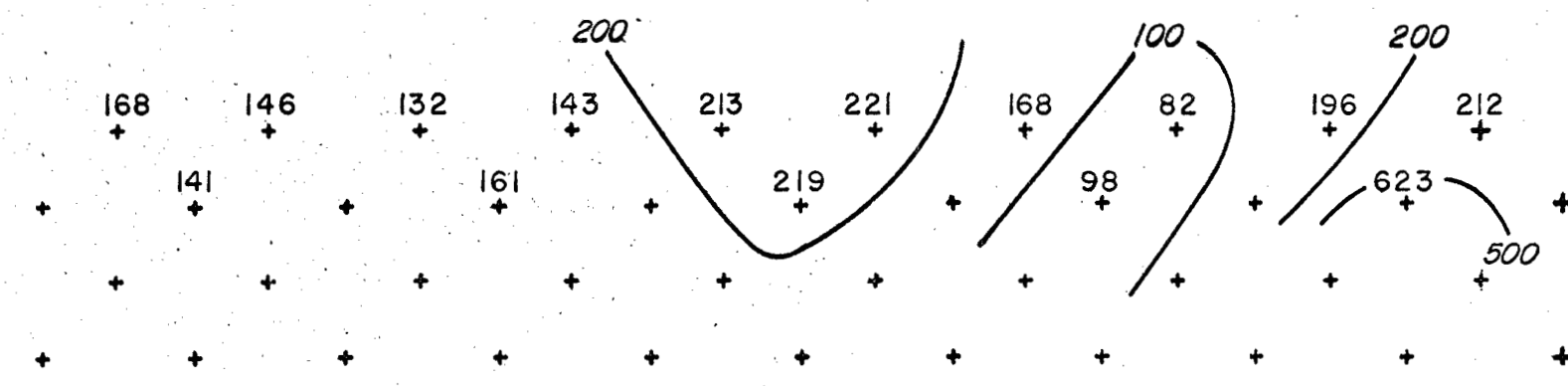
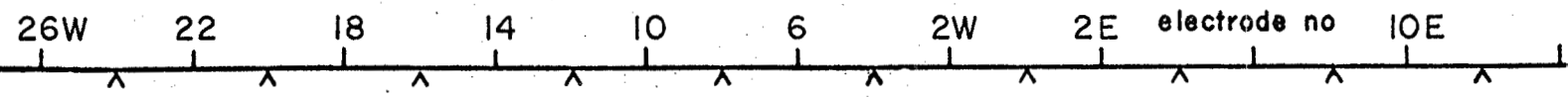
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

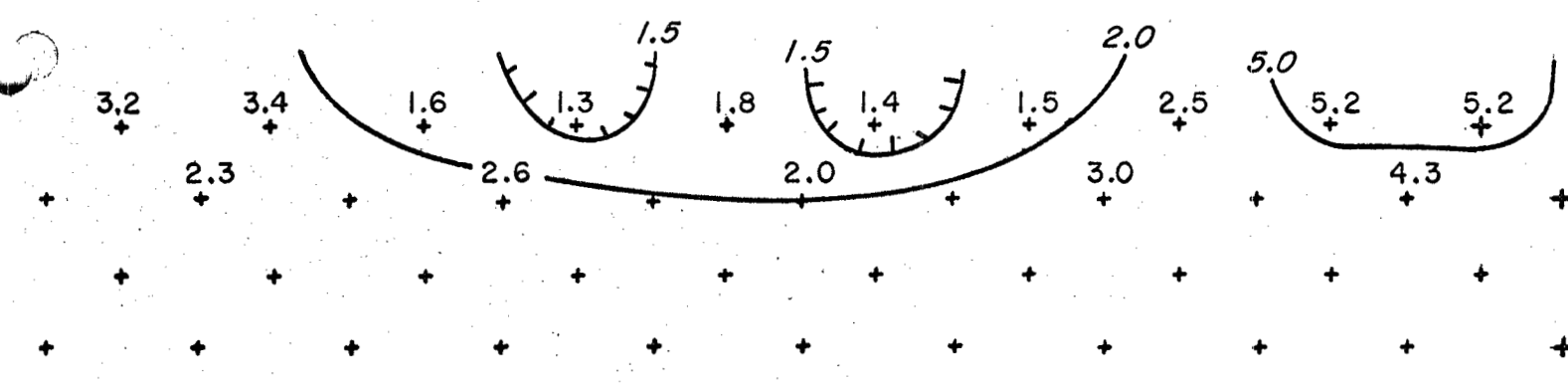
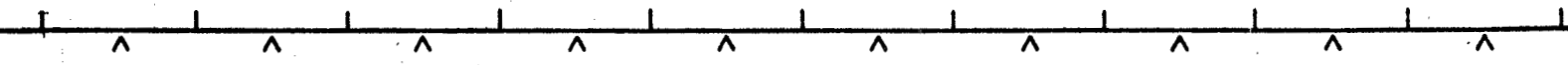
date _____

line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

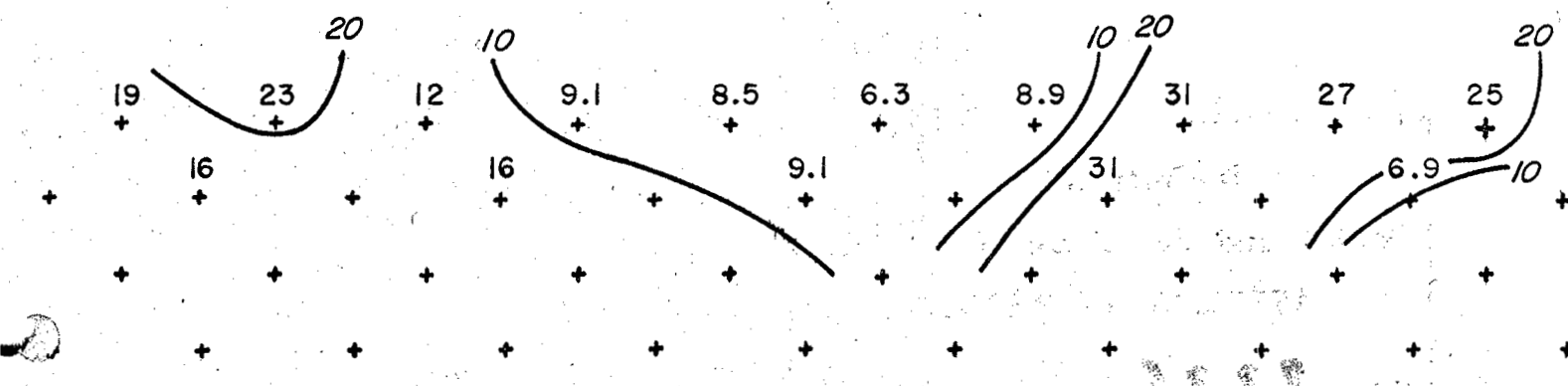
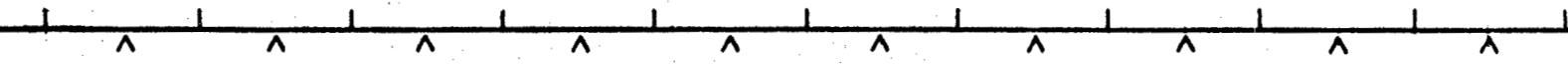
location _____
 map ref. _____
 line no. 84 N
 bearing _____



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
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INDUCED POLARIZATION SURVEY

Geoscience Incorporated

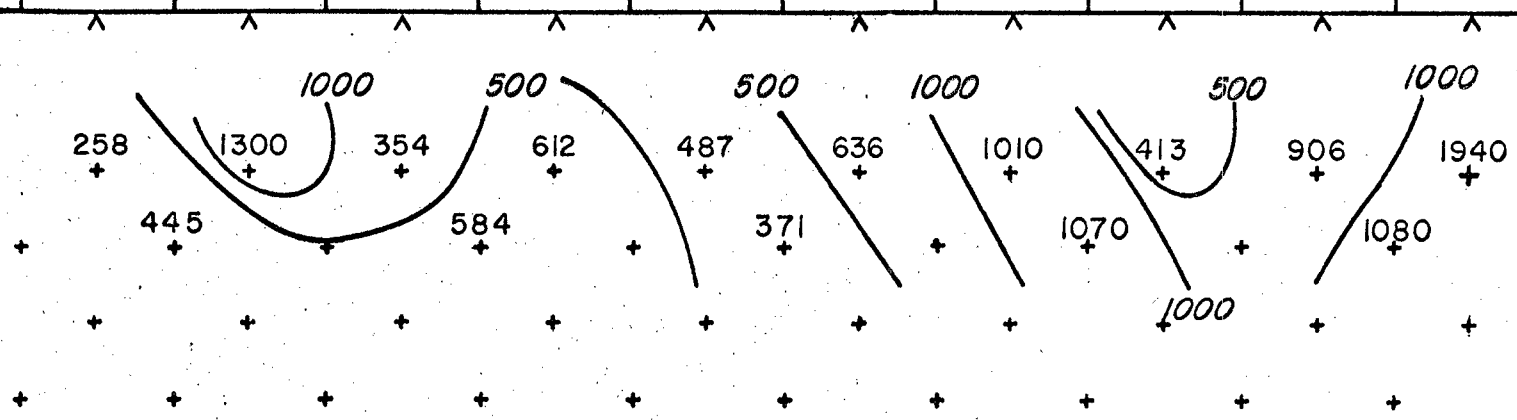
199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

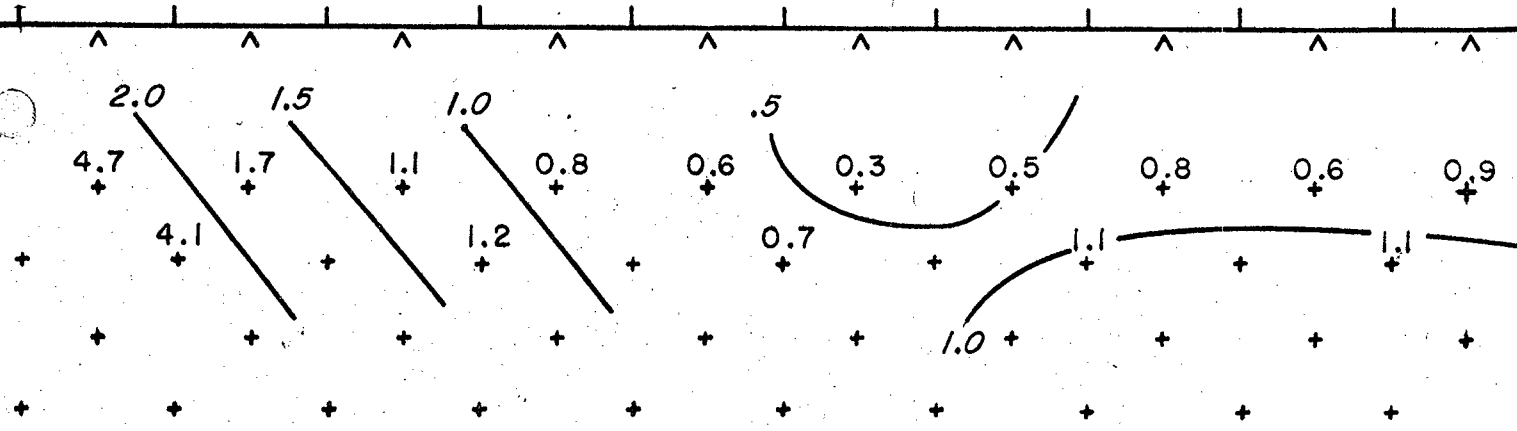
line location ZENITH II
 frequencies 3 8 .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 84 N
 bearing _____

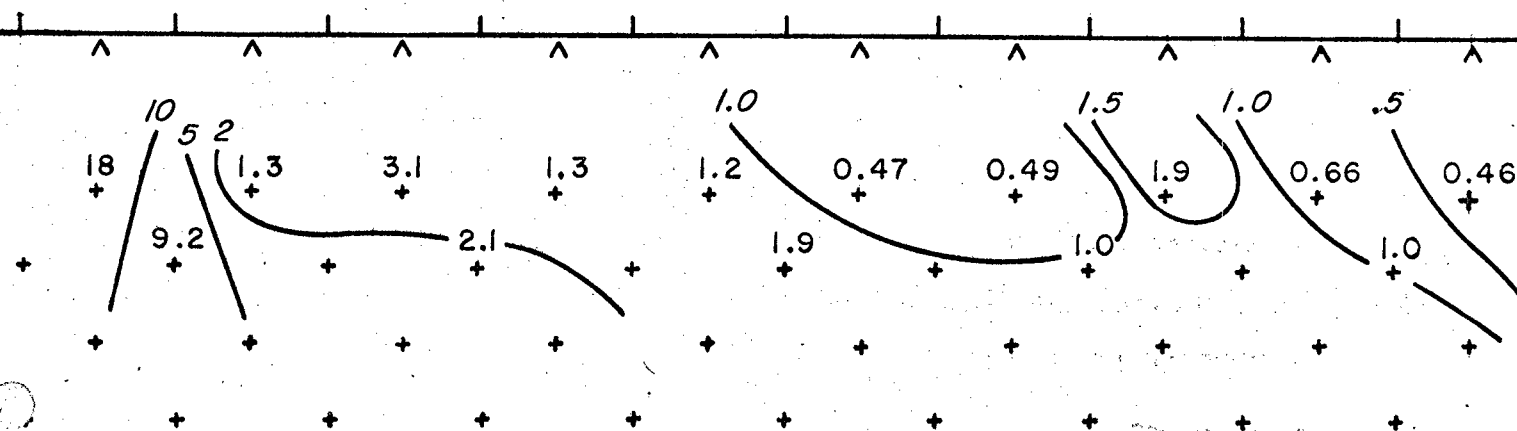
14E 18 22 26 30 34 38 42 electrode no 50E



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. **2235** MAP

INDUCED POLARIZATION SURVEY

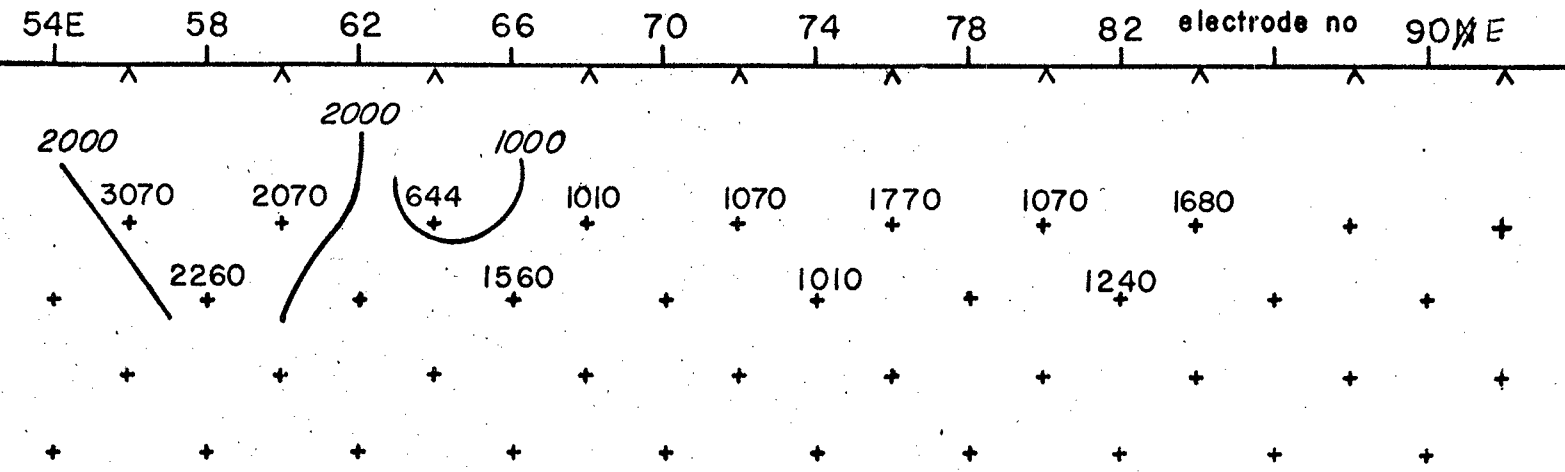
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

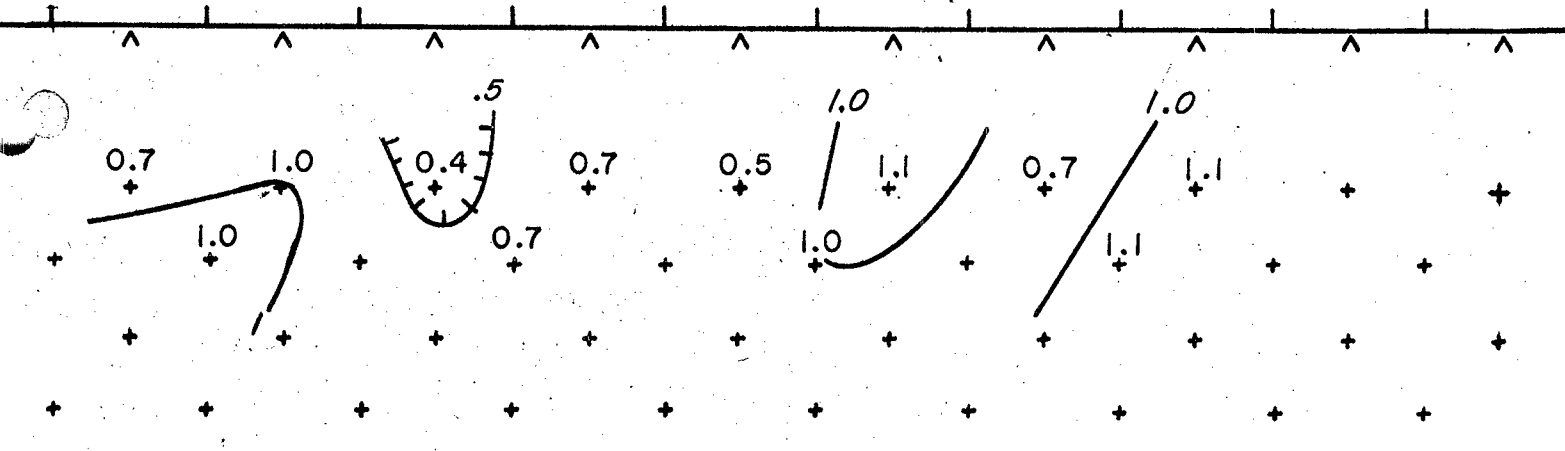
date _____

line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

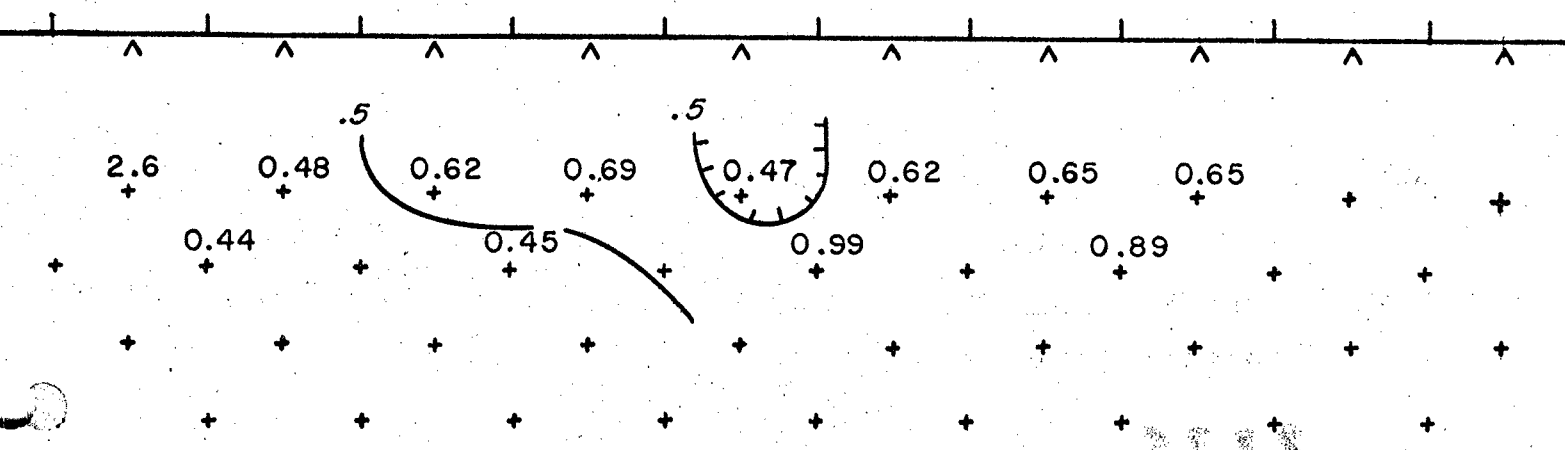
location _____
 map ref. _____
 line no. 84 N
 bearing _____



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
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ASSESSMENT REPORT

NO. **2235** MAP.....

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

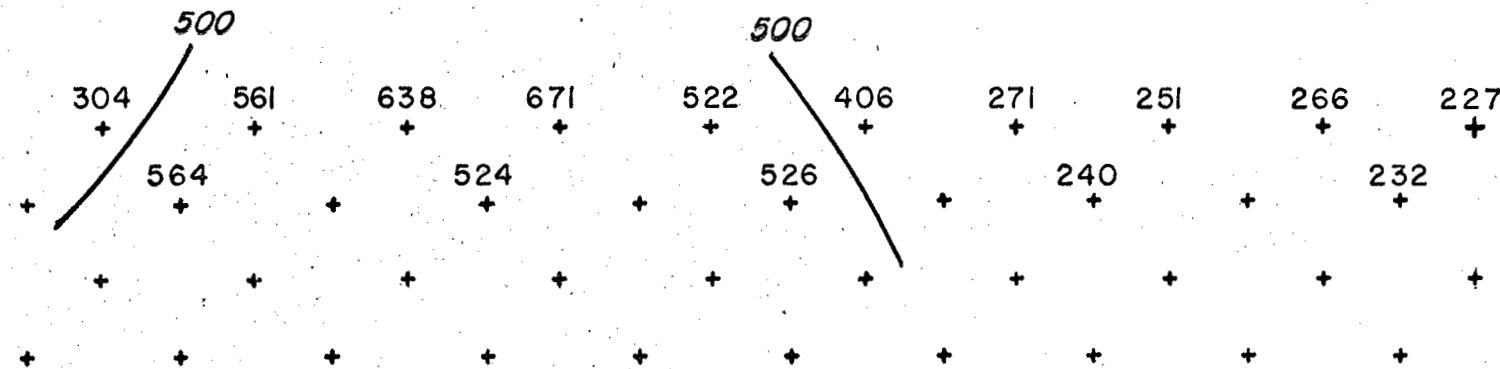
199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

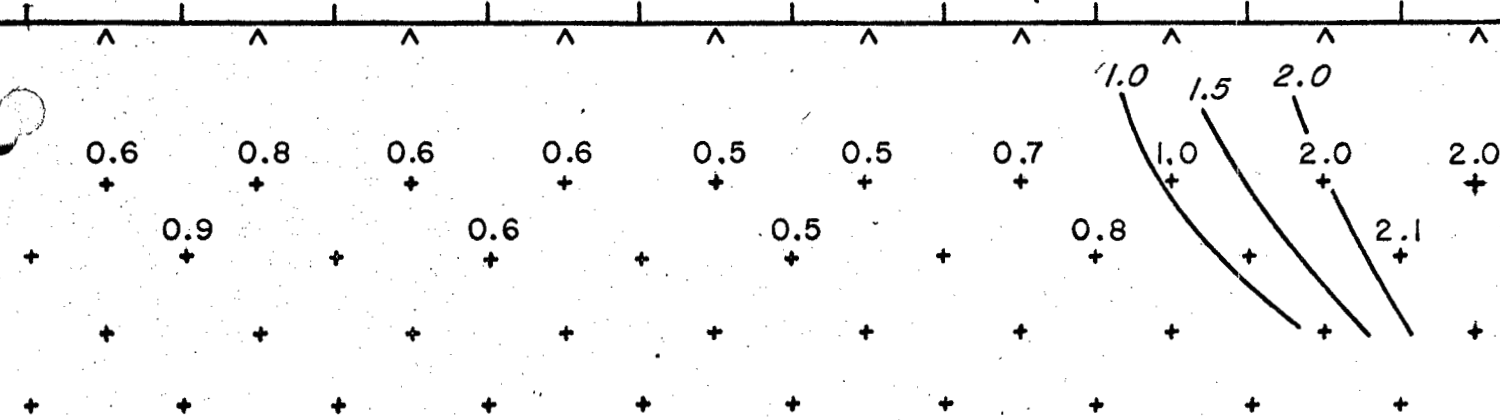
line location ZENITH II
 frequencies 3 8 .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 88 N
 bearing _____

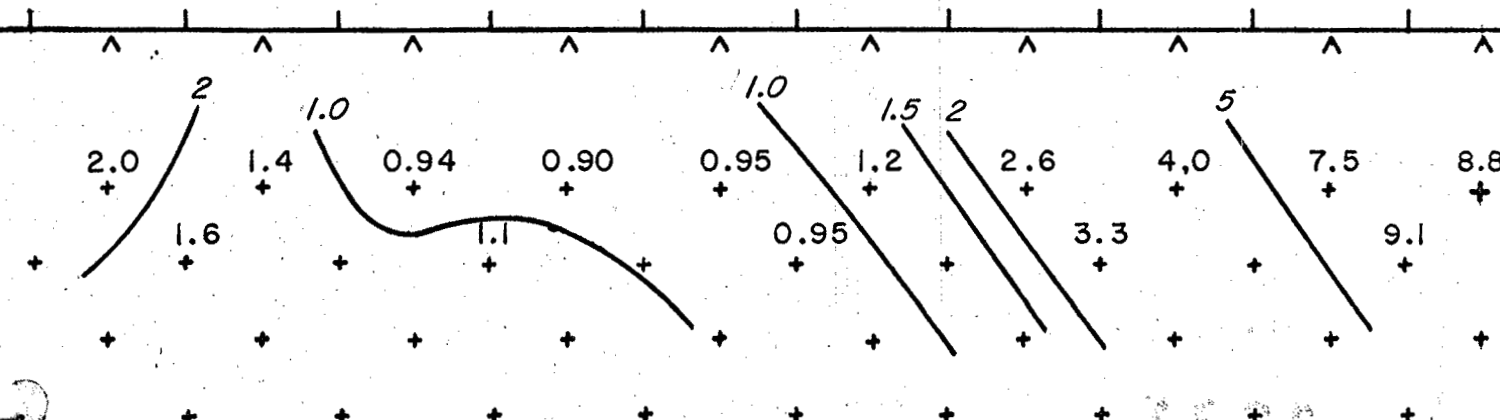
66 W 62 58 54 50 46 42 38 electrode no 30 W



ρ_a (apparent resistivity)



% FE Frequency effect



$(M.F.)_a$ Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 2235 MAP

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

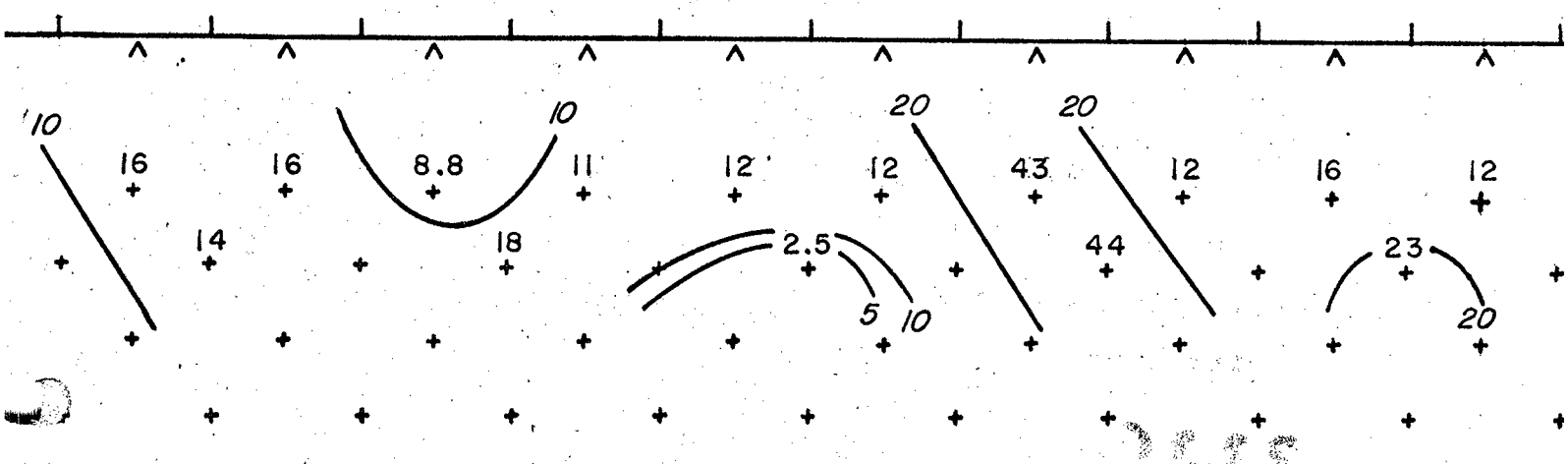
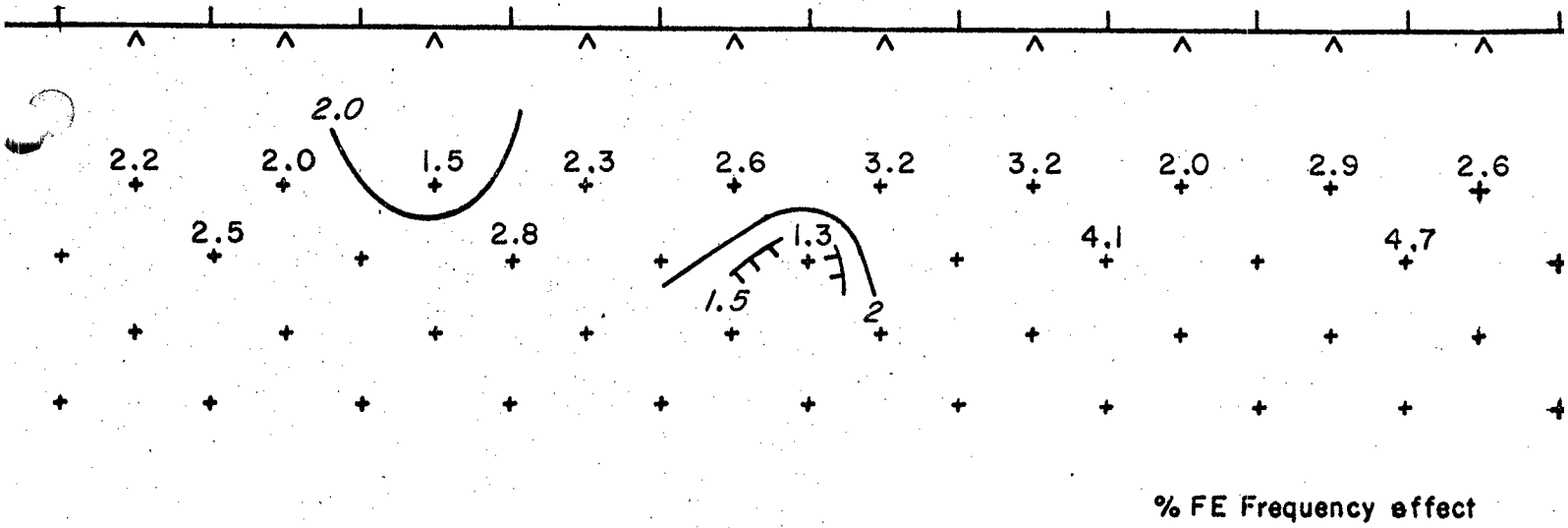
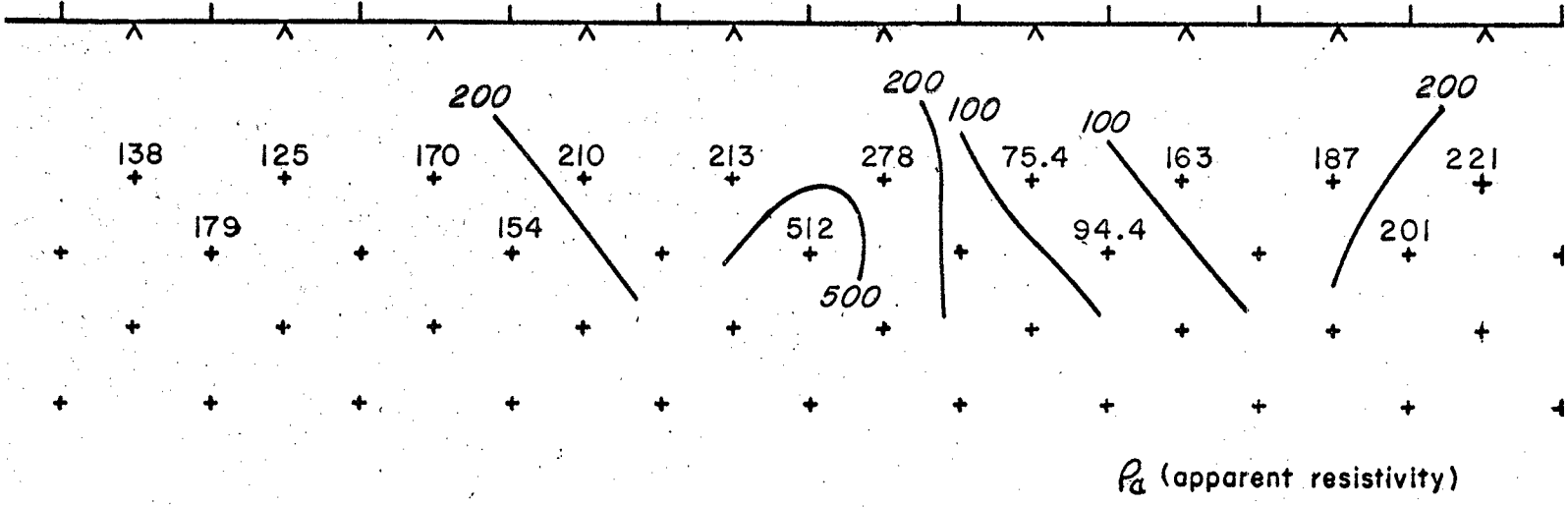
199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 88 N
 bearing _____

26W 22 18 14 10 6 2W 2E electrode no 10E



continued from sheet _____ on sheet _____

Department of
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NO. **2235** MAP

INDUCED POLARIZATION SURVEY

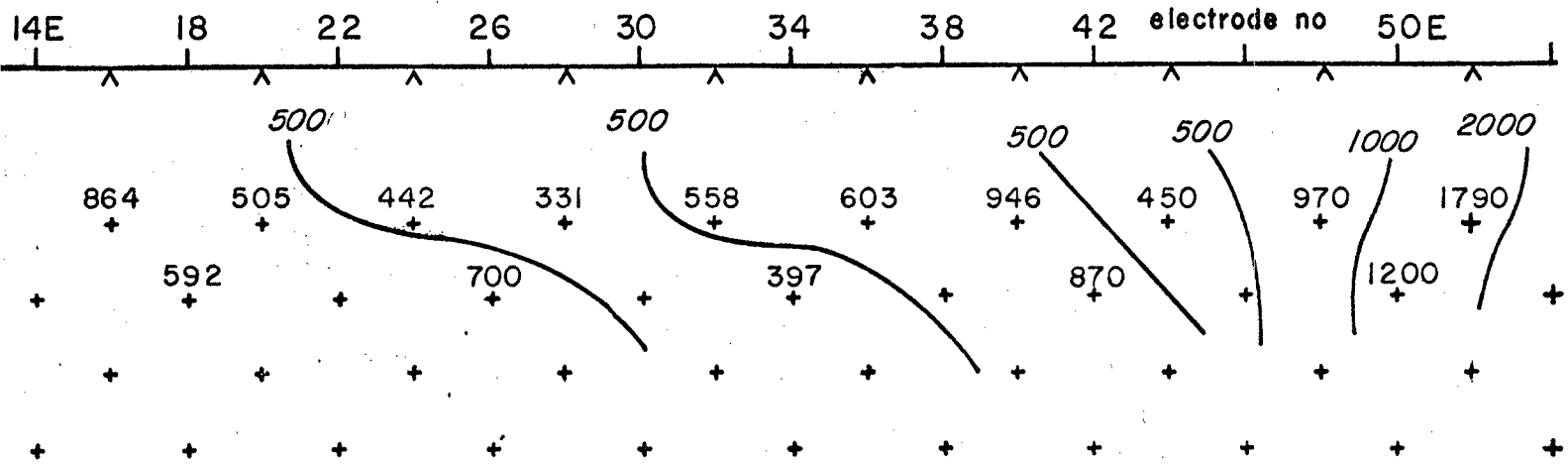
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

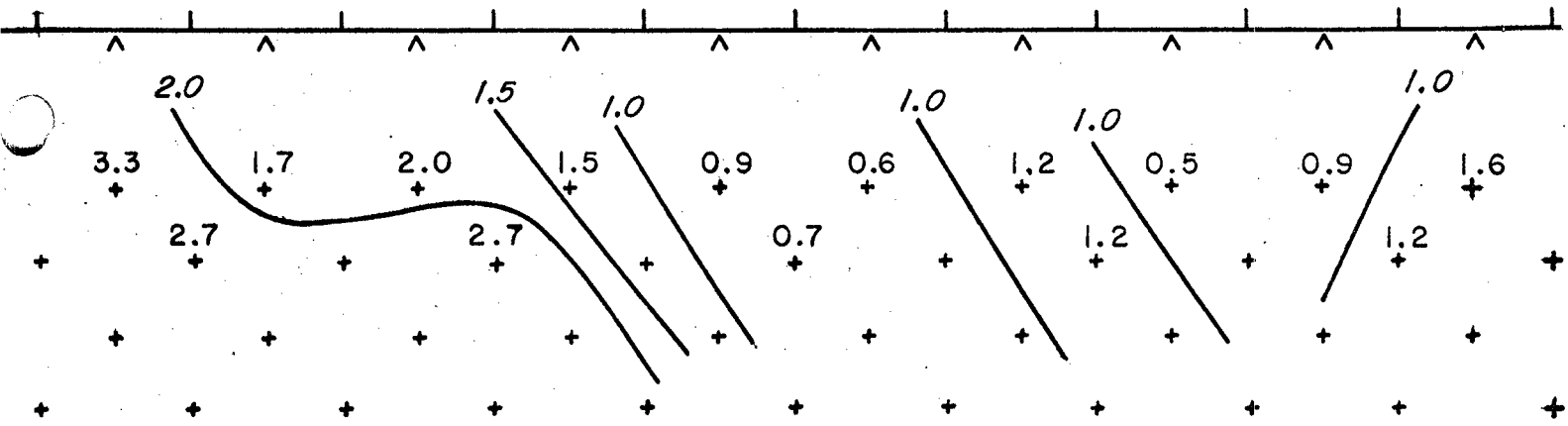
date _____

line location ZENITH II
 frequencies 3 8 .3 cps
 dipole length 400'
 operators _____

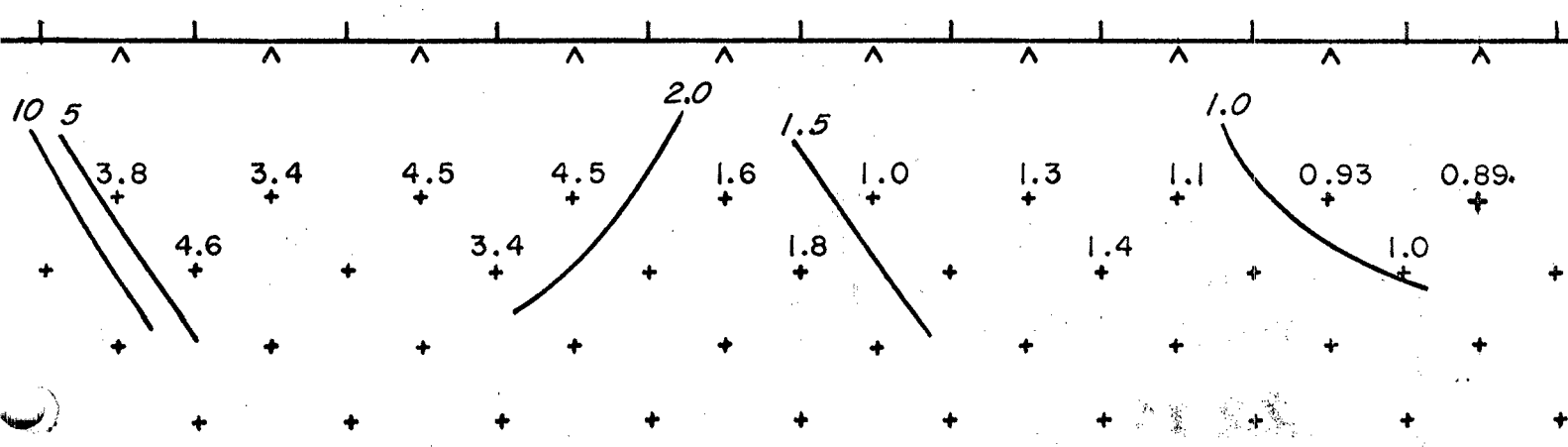
location _____
 map ref. _____
 line no. 88N
 bearing _____



P_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
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NO. **2235** MAP

INDUCED POLARIZATION SURVEY

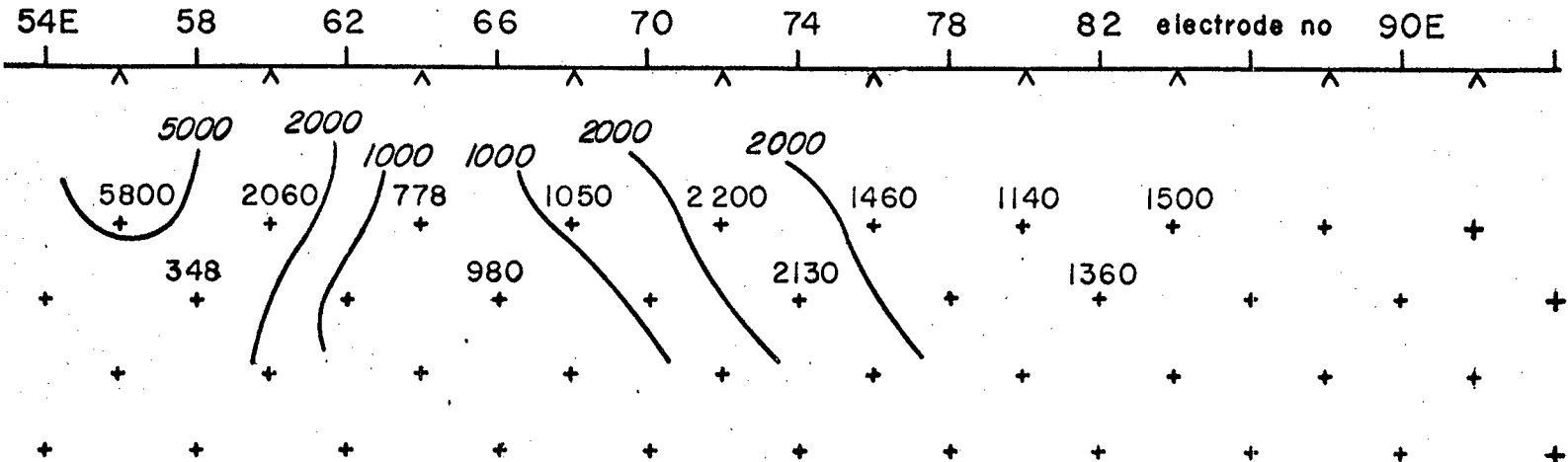
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

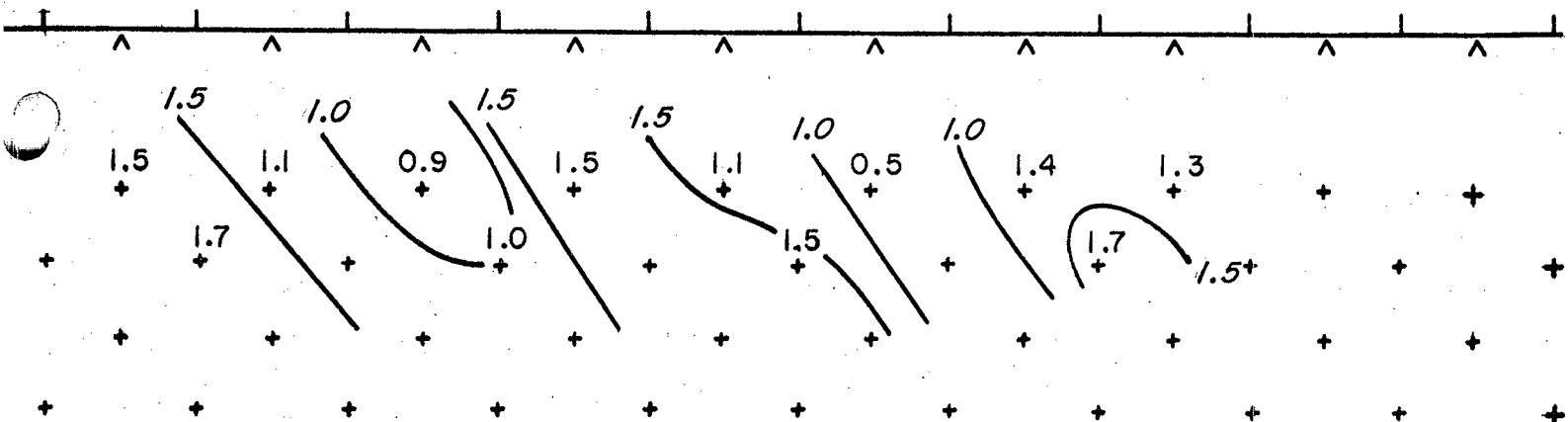
date _____

line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

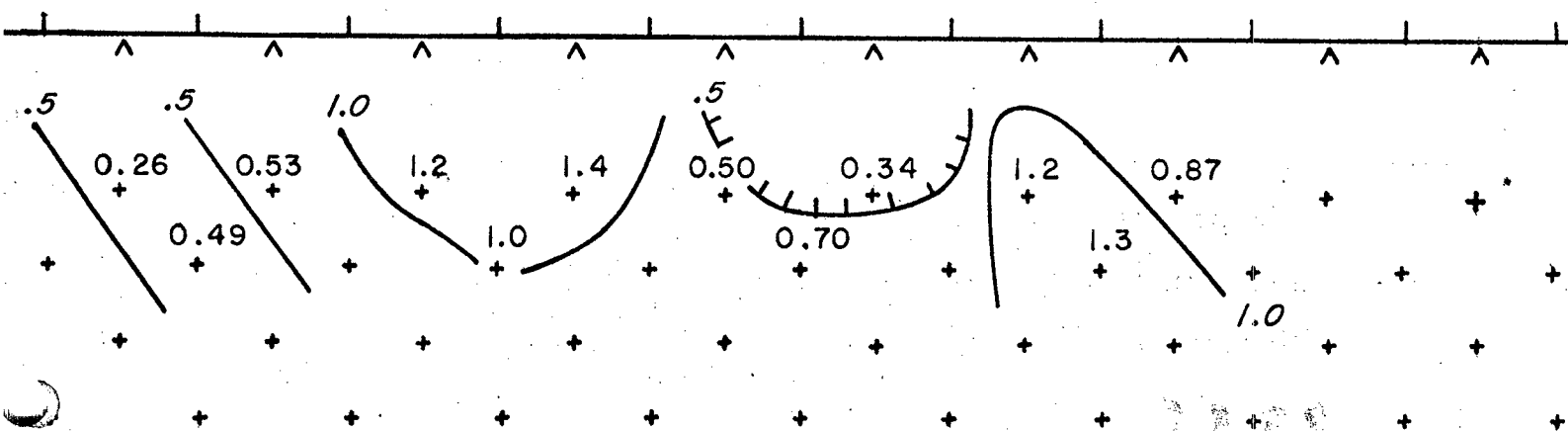
location _____
 map ref. _____
 line no. 88N
 bearing _____



P_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
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NO. **2235** MAP

INDUCED POLARIZATION SURVEY

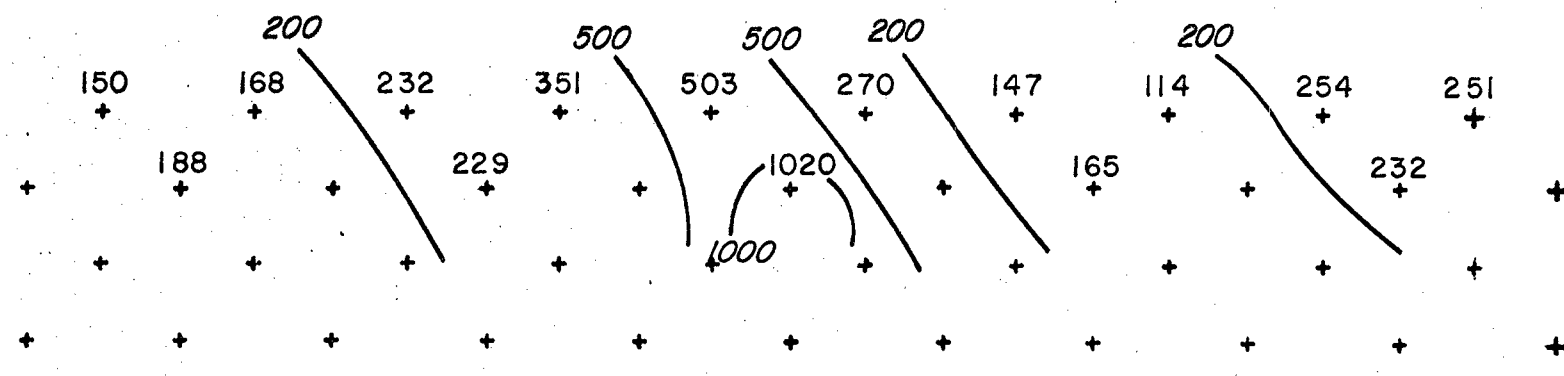
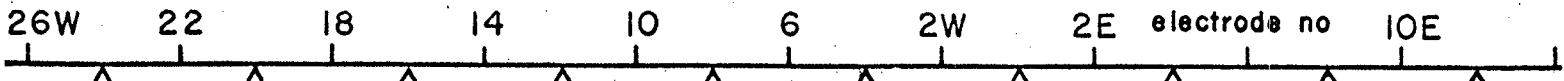
Geoscience Incorporated

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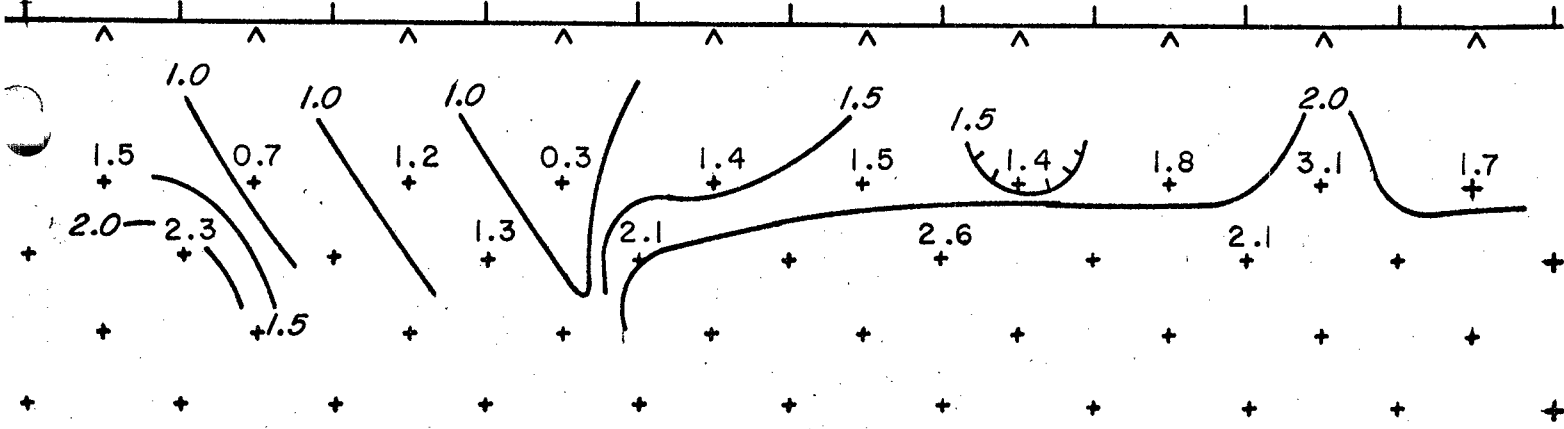
date _____

line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

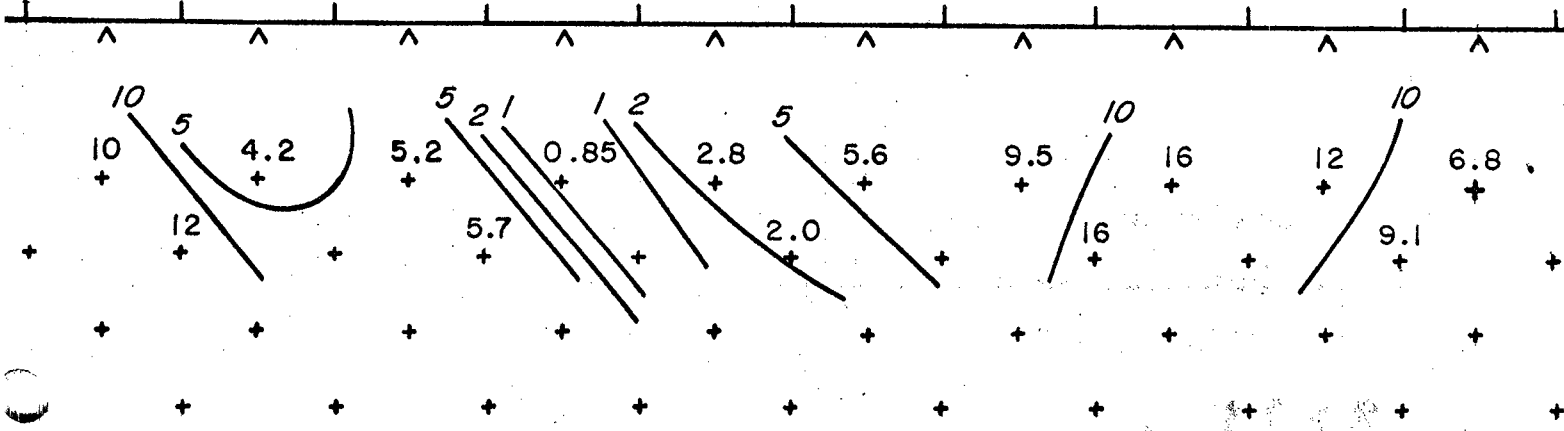
location _____
 map ref. _____
 line no. 92N
 bearing _____



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
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NO. 2235 MAP

INDUCED POLARIZATION SURVEY

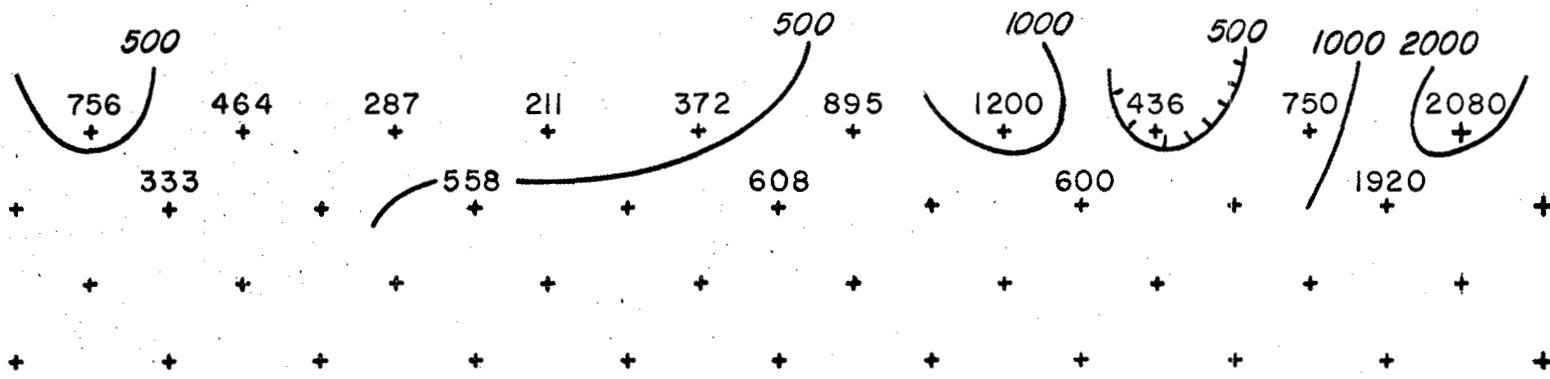
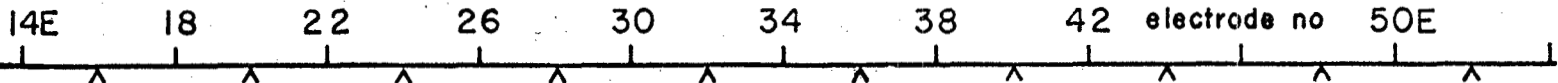
Geoscience Incorporated

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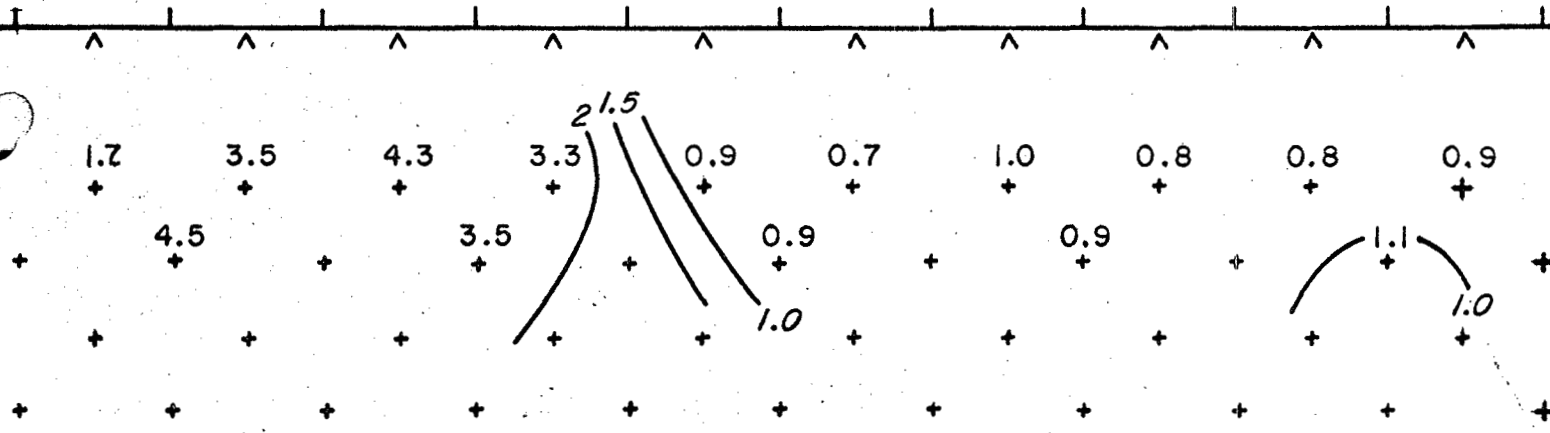
date _____

line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

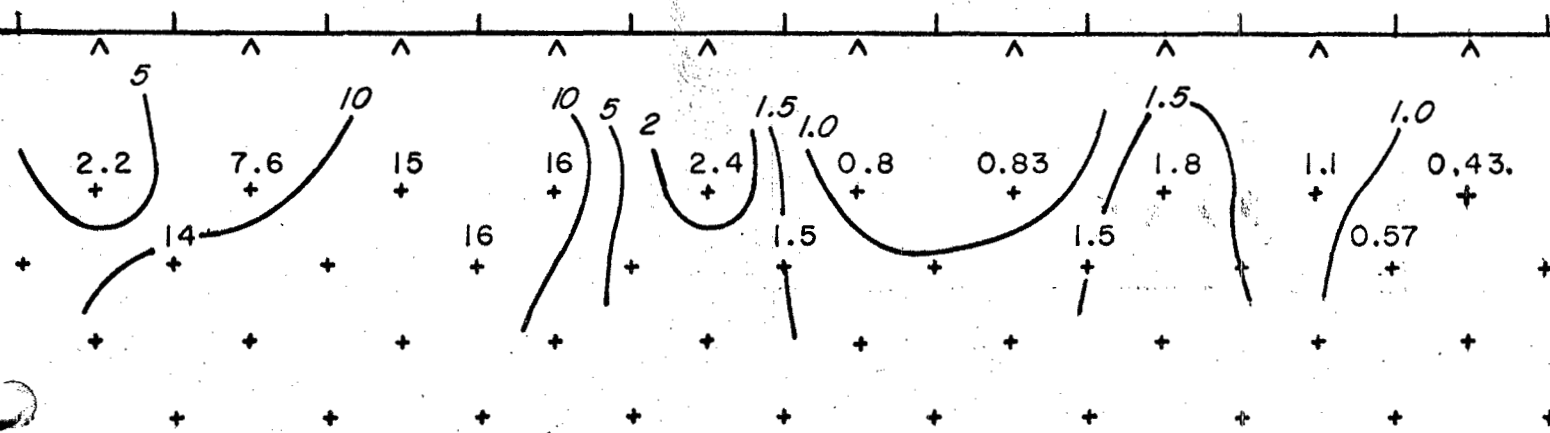
location _____
 map ref. _____
 line no. 92 N
 bearing _____



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
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NO. **2235** MAP.....

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

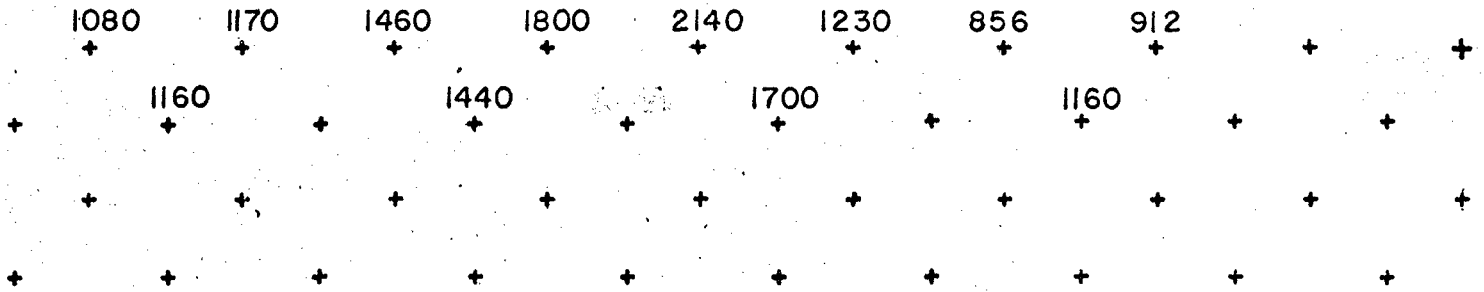
199 BENT STREET, CAMBRIDGE, MASS, 02141

date _____

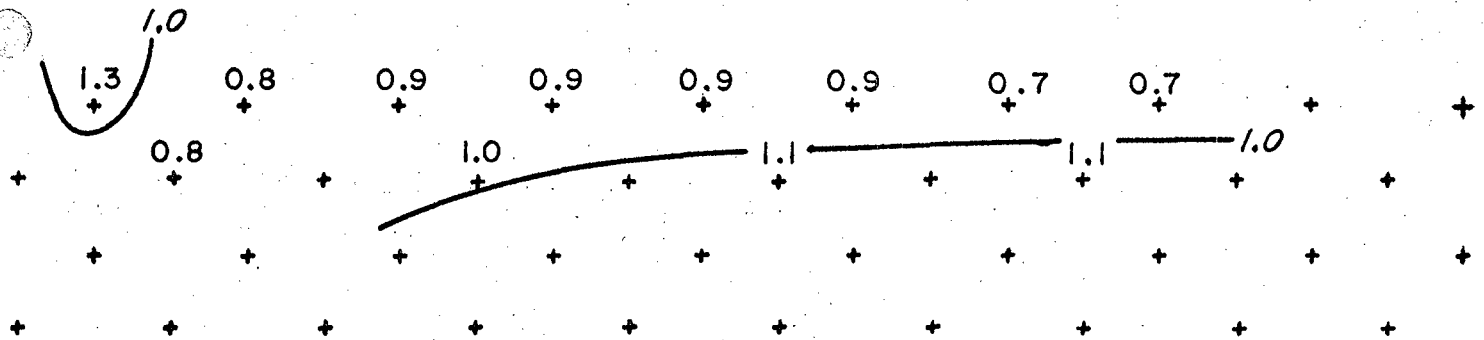
line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 92N
 bearing _____

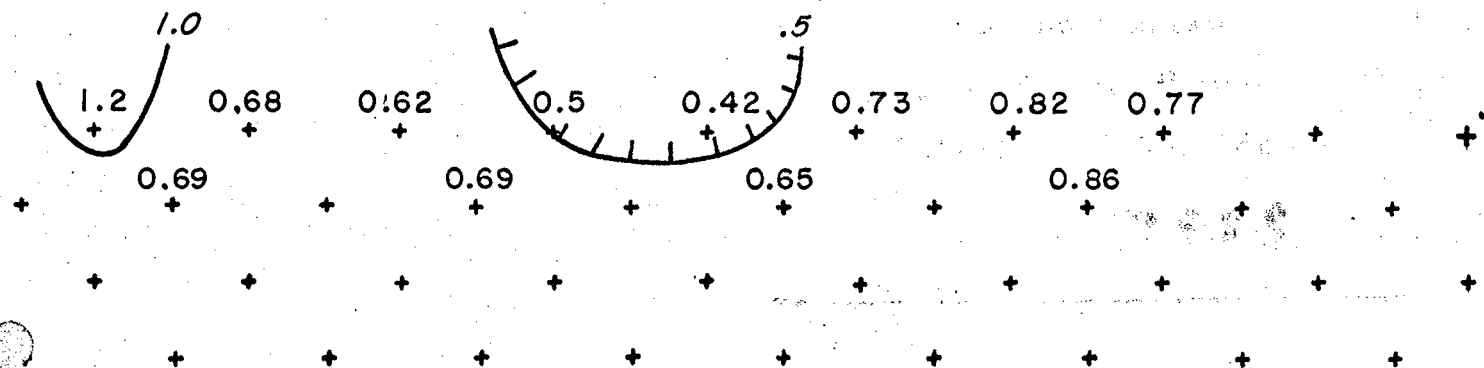
54E 58 62 66 70 74 78 82 electrode no 90E



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
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NO. **2235** MAP

INDUCED POLARIZATION SURVEY

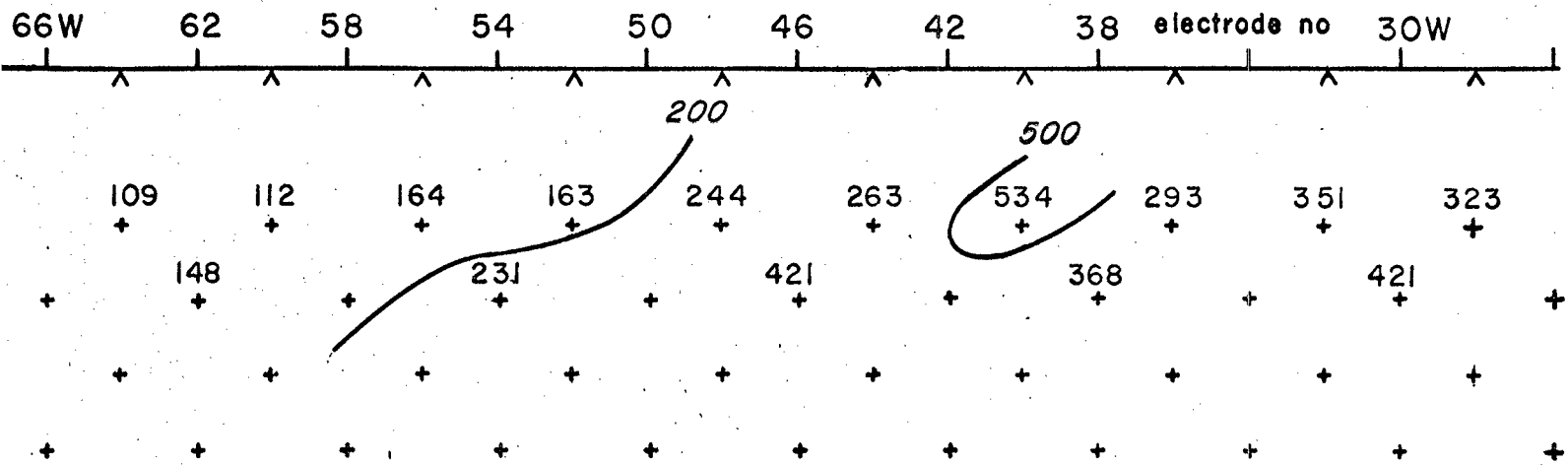
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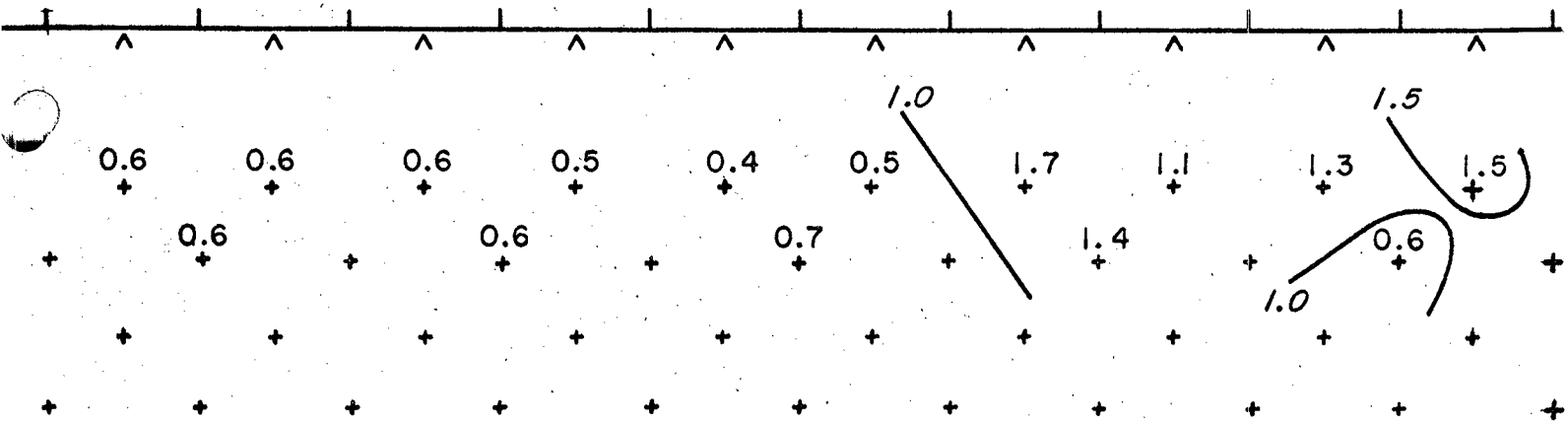
date _____

line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

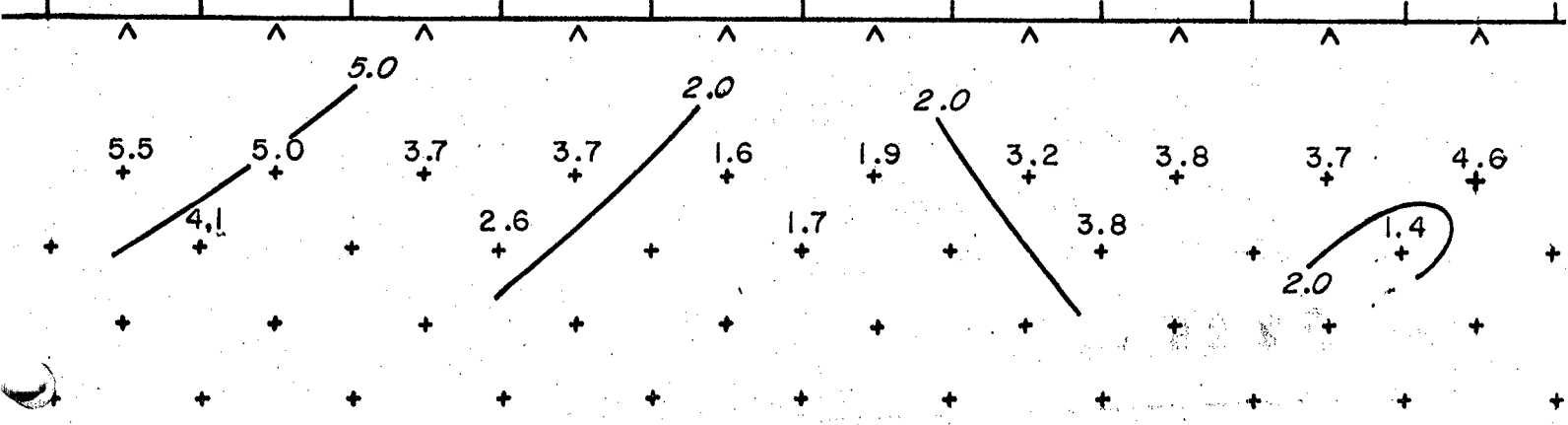
location _____
 map ref. _____
 line no. 96N
 bearing _____



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
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NO. **2235** M.P.

INDUCED POLARIZATION SURVEY

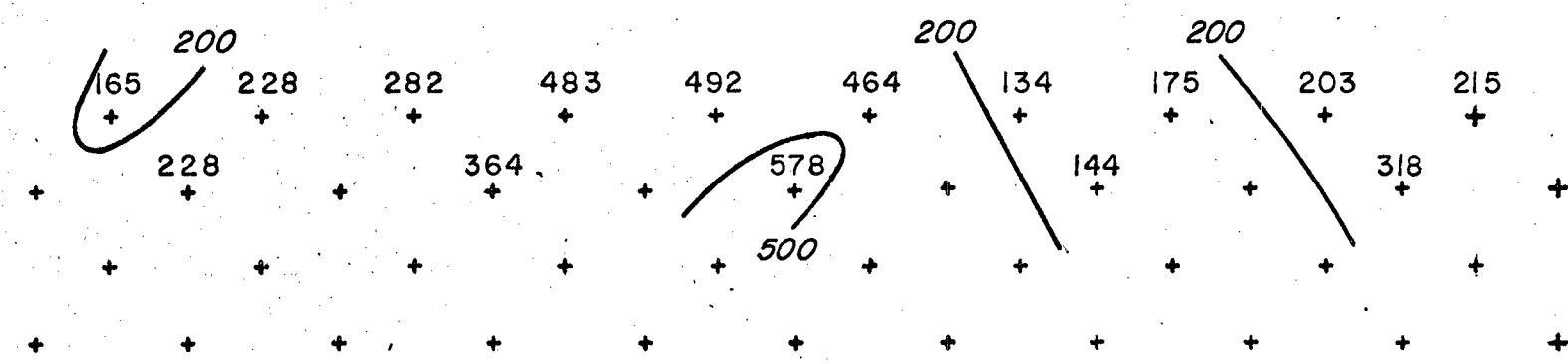
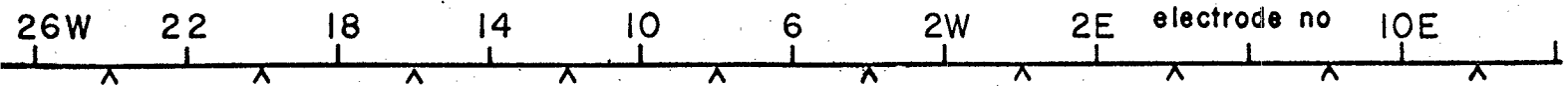
Geoscience Incorporated

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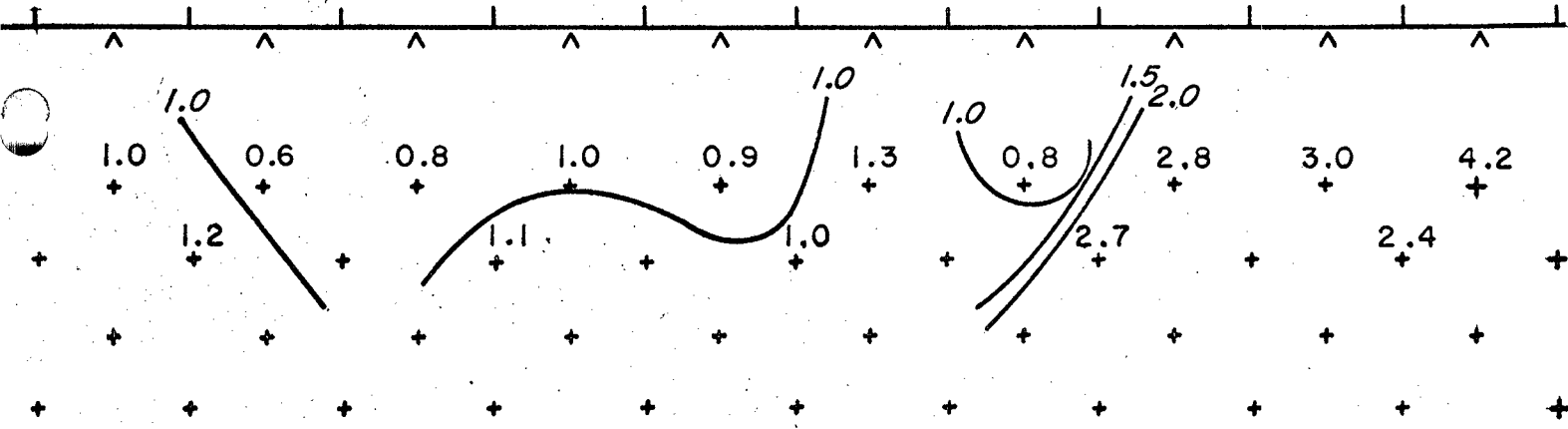
date _____

line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

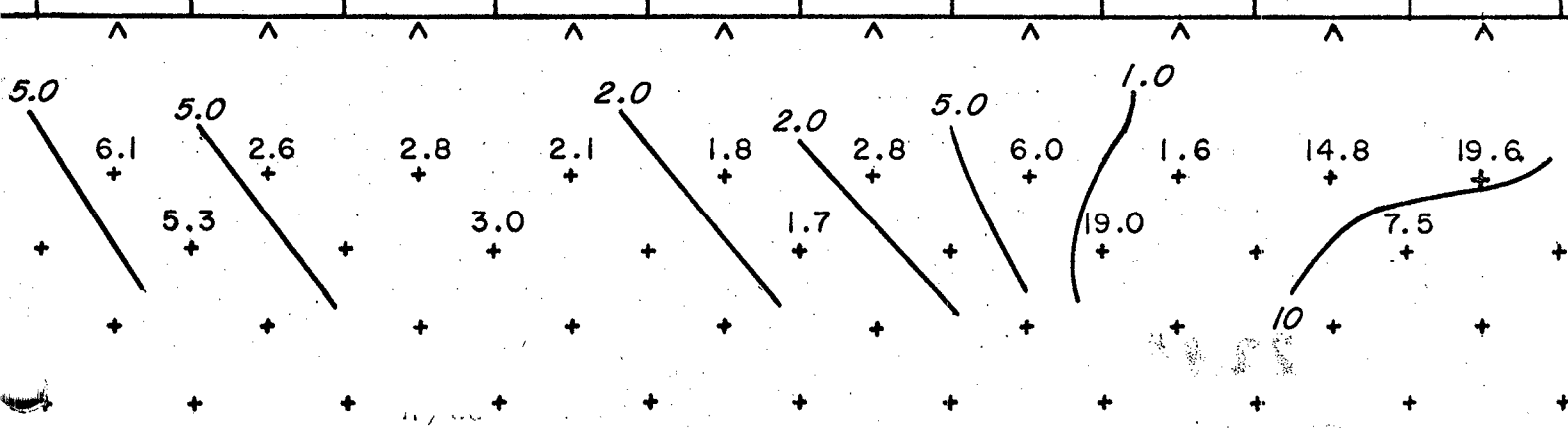
location _____
 map ref. _____
 line no. 96N
 bearing _____



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
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NO. **2235** MAP

INDUCED POLARIZATION SURVEY

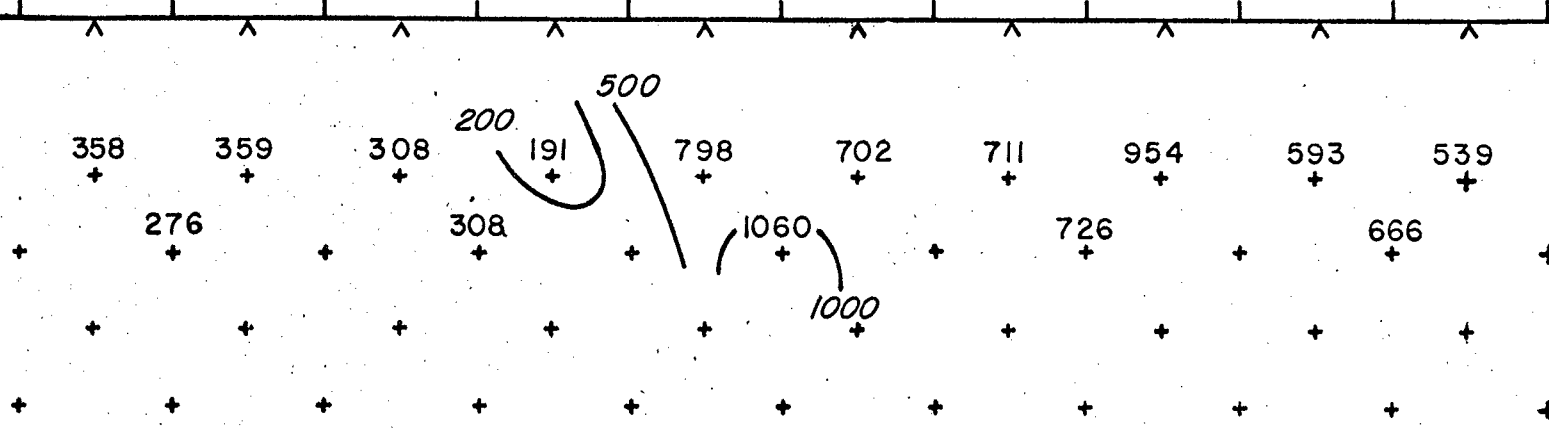
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199 BENT STREET, CAMBRIDGE, MASS, 02141

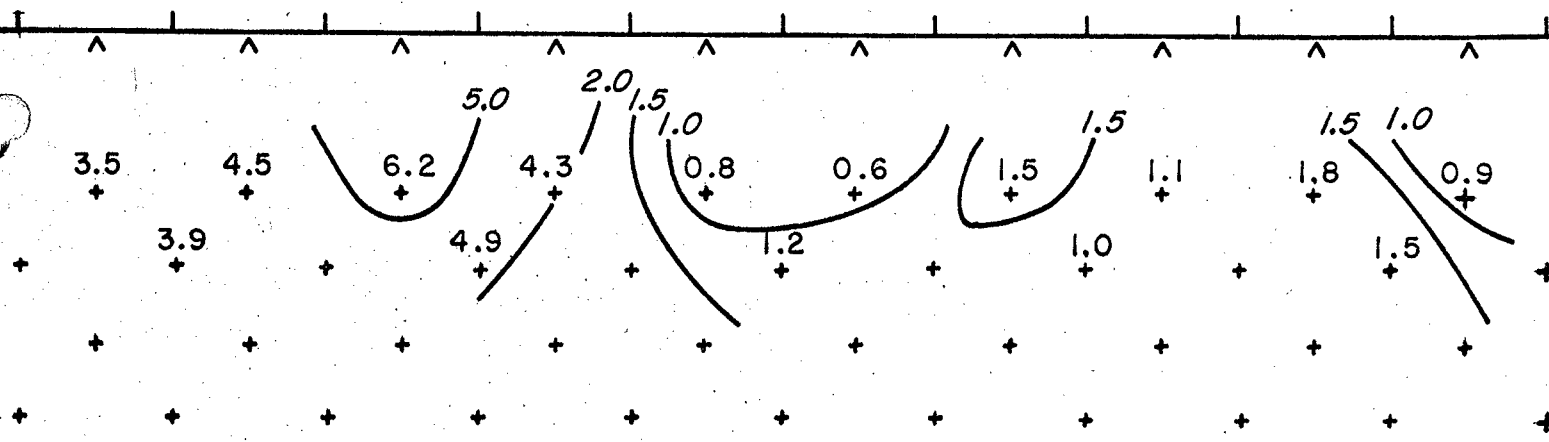
line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

date _____
 location _____
 map ref. _____
 line no. 96 N
 bearing _____

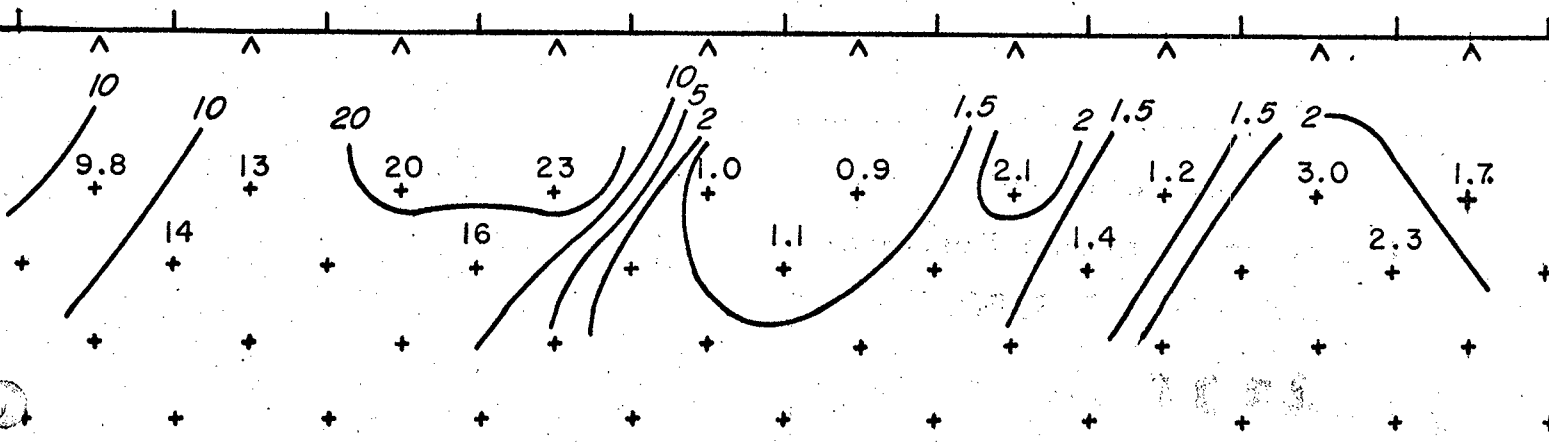
14E 18 22 26 30 34 38 42 electrode no 50E



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
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NO. **2235** MAP

INDUCED POLARIZATION SURVEY

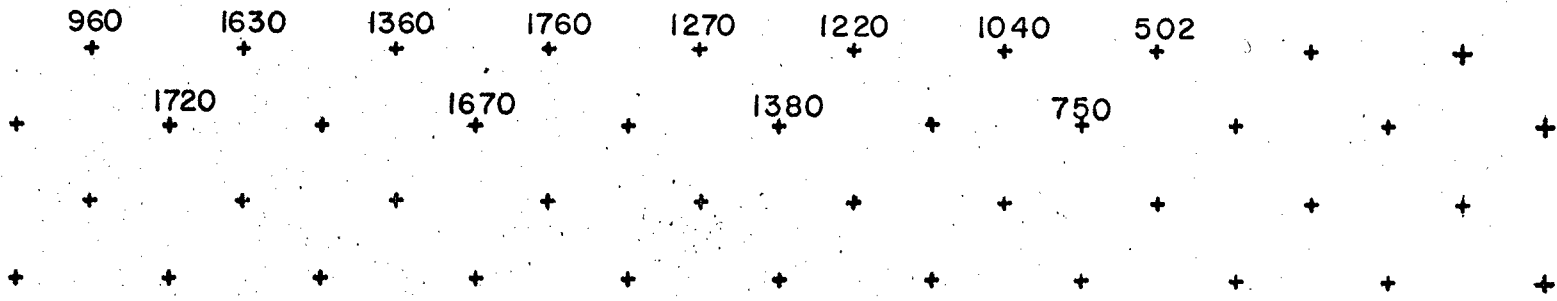
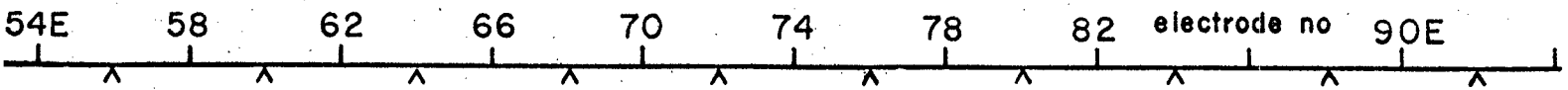
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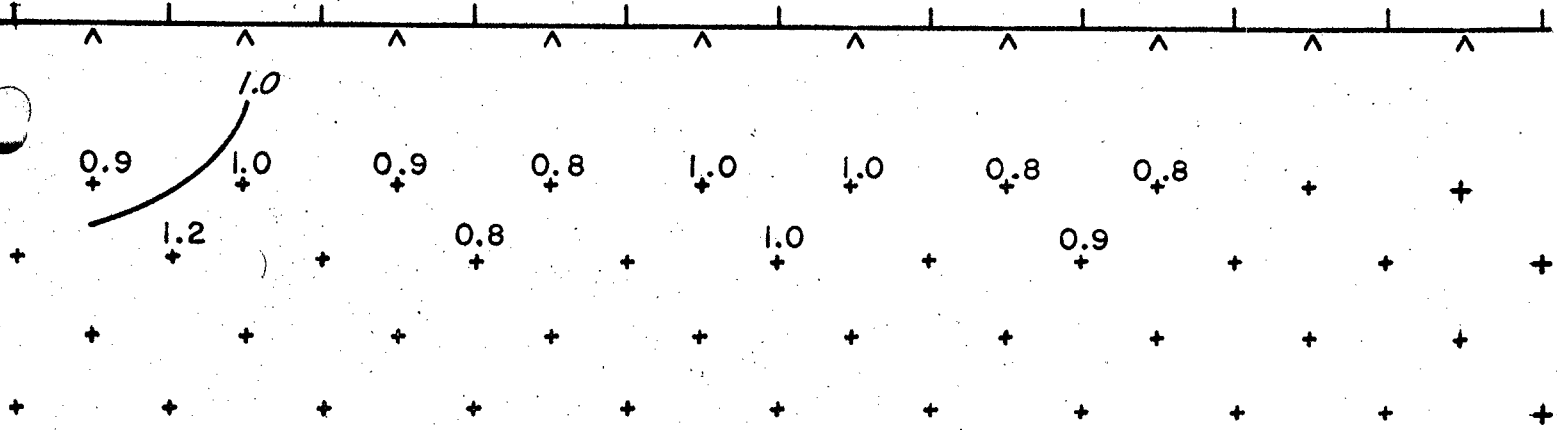
date _____

line location ZENITH II
frequencies 3 & .3 cps
dipole length 400'
operators _____

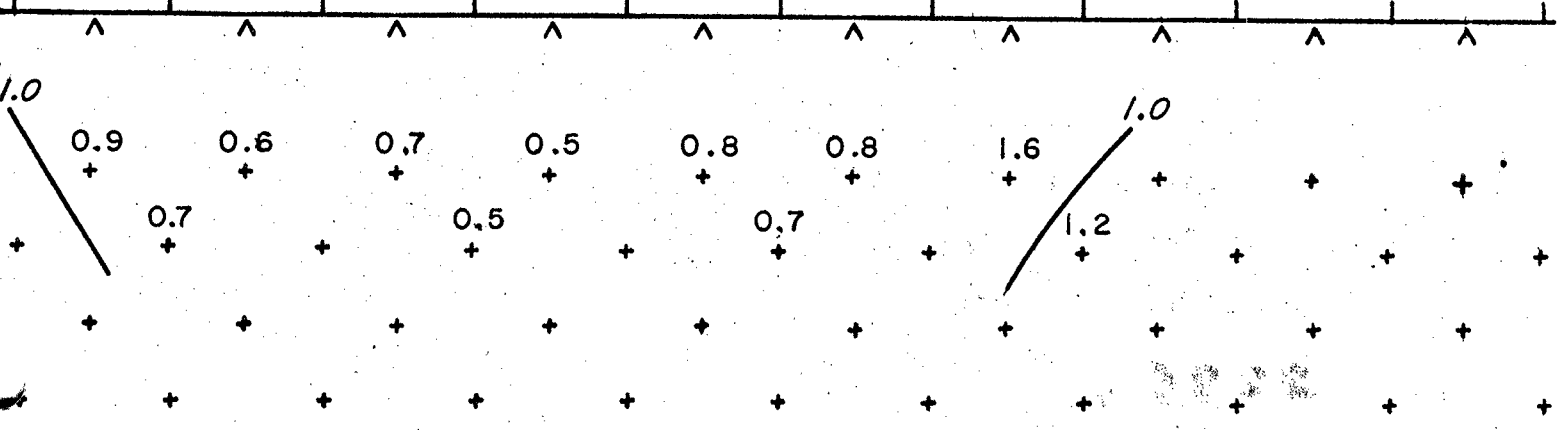
location _____
map ref. _____
line no. 96N
bearing _____



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
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NO. **2235** MAP

INDUCED POLARIZATION SURVEY

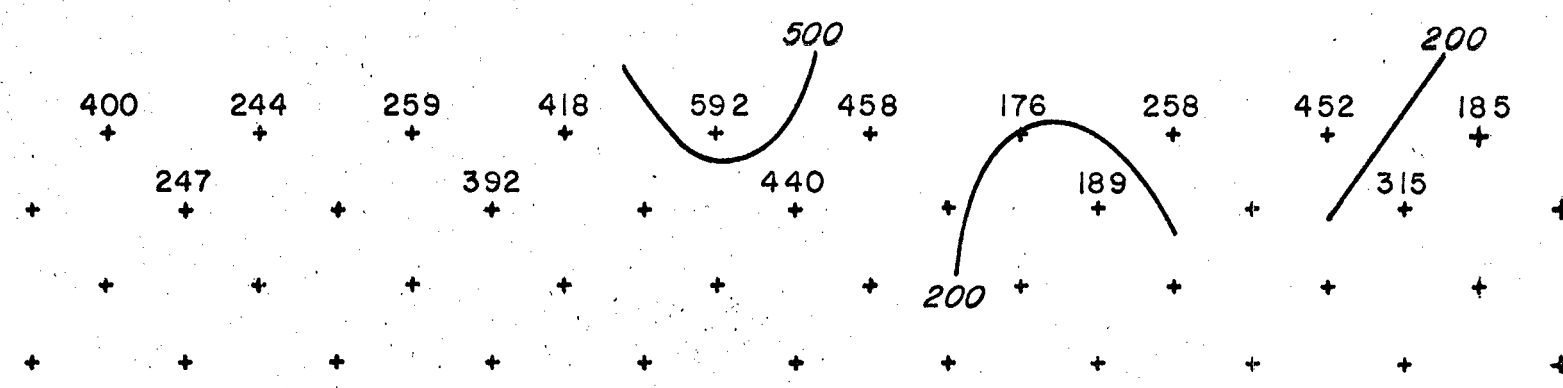
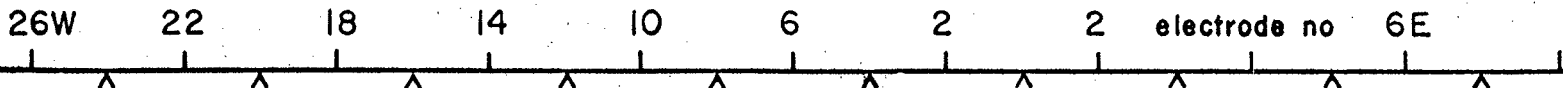
Geoscience Incorporated

199 BENT STREET, CAMBRIDGE, MASS, 02141

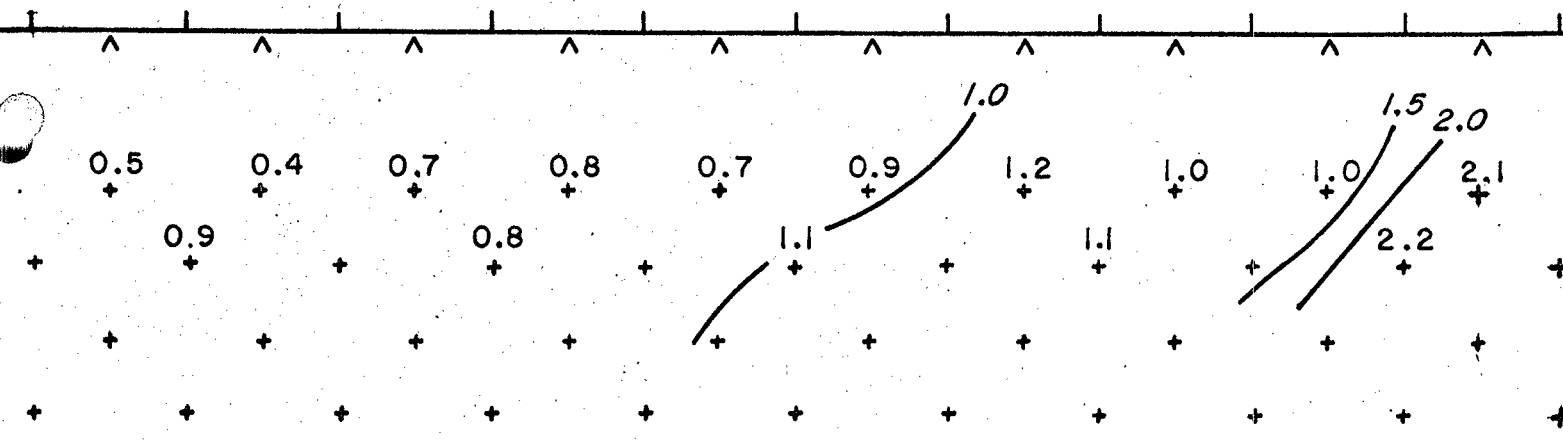
date _____

line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

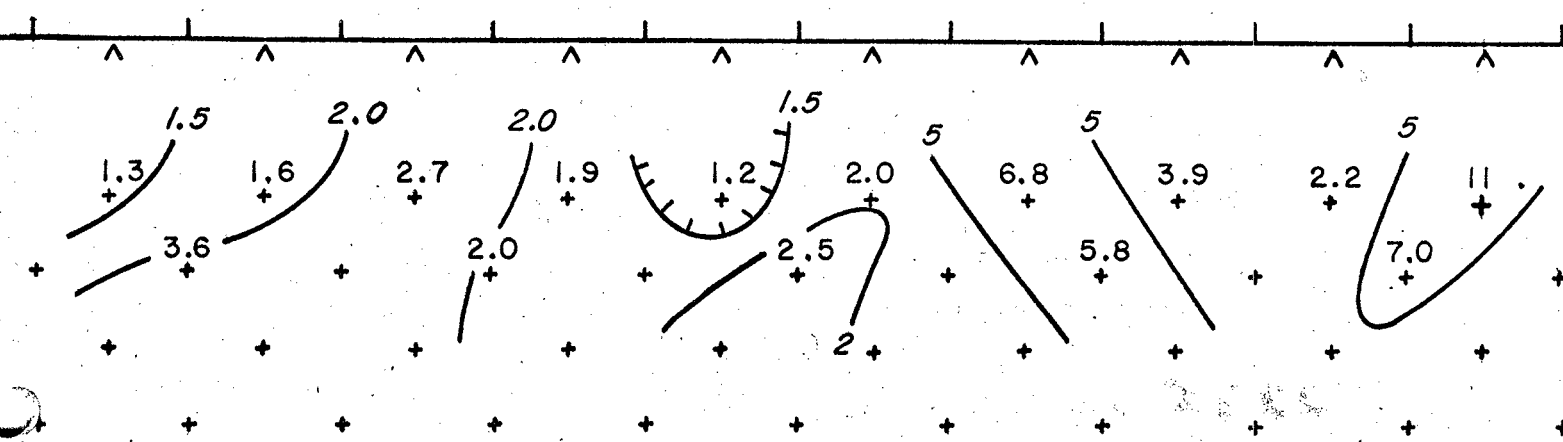
location _____
 map ref. _____
 line no. 104N
 bearing _____



ρ_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

Department of
Mines and Petroleum Resources
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NO. **2235** MAP

INDUCED POLARIZATION SURVEY

Geoscience Incorporated

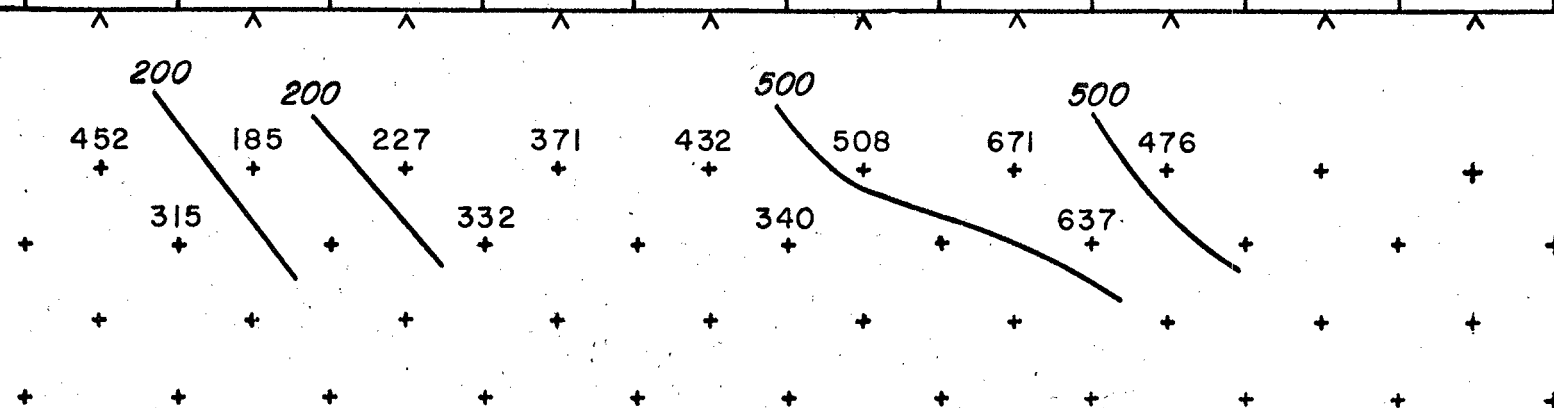
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date _____

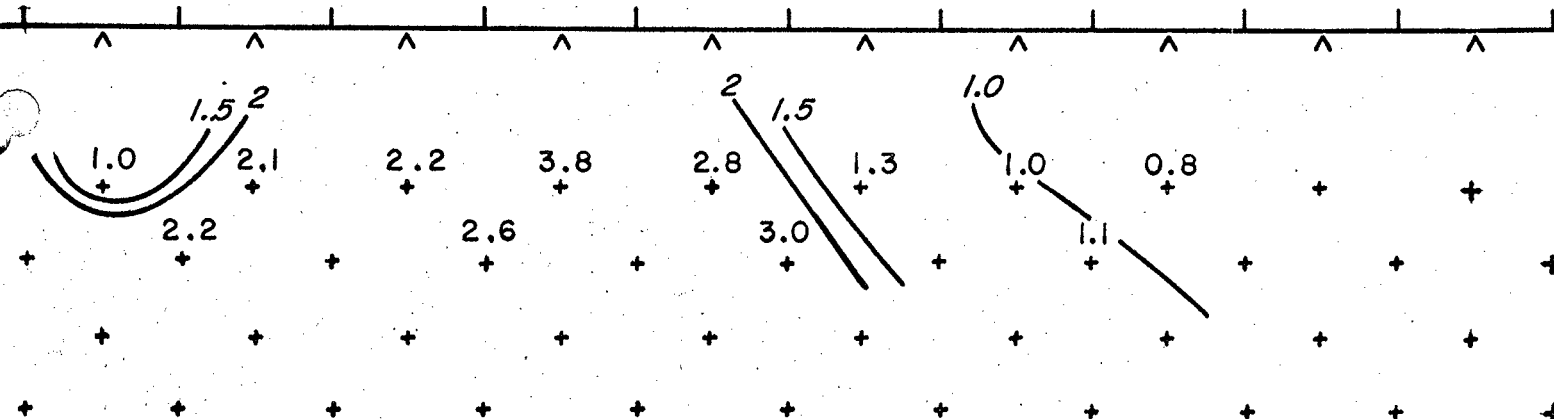
line location ZENITH II
 frequencies 3 & .3 cps
 dipole length 400'
 operators _____

location _____
 map ref. _____
 line no. 104 N
 bearing _____

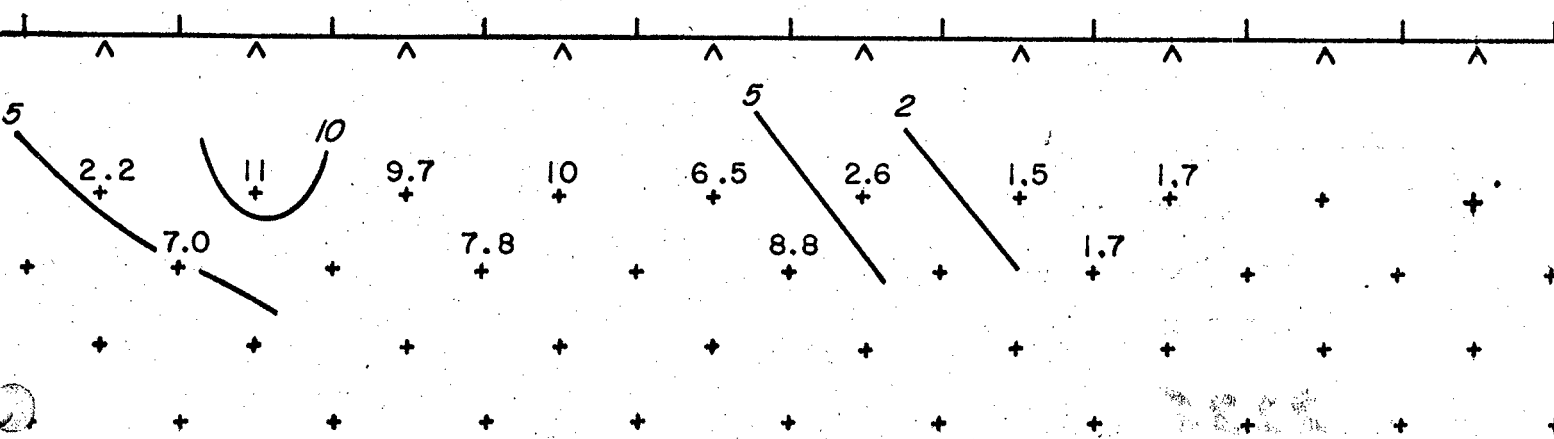
IOE 14 18 22 26 30 34 38E electrode no



P_a (apparent resistivity)



% FE Frequency effect



(M.F.)_a Metal Factor

continued from sheet _____ on sheet _____

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Mines and Petroleum Resources
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NO. **2235** MAP

APPENDIX II

Statement of Qualifications of Personnel not
Registered as Professional Engineers in
British Columbia

HOWARD S. LAHMAN

Senior Geophysicist

Education: B.S., Geology, Massachusetts Institute of
Technology

Since joining Geoscience in 1964, Mr. Lahman has had wide experience in all electrical prospecting methods, especially deep crustal resistivity, induced polarization, and Magnetotellurics (both analog and digital systems). In these areas he has experience in field work, data reduction, and data interpretation. He also has field experience in other techniques of geophysical exploration, such as gravity surveys, and has worked in equipment production and maintenance.

HOWARD S. LAHMAN

Electrical Properties of Basement Rock from Deep Resistivity Measurements (April 1968), 49th Annual Meeting of AGU, (with Arnold Orange and Keeva Vozoff).

Detailed Gravity Results on Iron Formation, Tibito, Colombia, S. A. (1966), in preparation for Corporacion Minera Colombiana, (with Keeva Vozoff).

Induced Polarization as a Geophysical Method (1966), Geoscience Publication, (with Keeva Vozoff).

Deep Resistivity Results from D. C. Ground Tests at Hoover Dam (1965), Air Force Contract AF19(628)-2351, Scientific Report No. 6, (with Keeva Vozoff).

Deep Resistivity Results from Six Pre-Cambrian Areas of the Western U. S. (1965), Air Force Contract AF19(628)-2351, Scientific Report No. 7, (with Arnold Orange and Keeva Vozoff).

Deep Resistivity Investigations in the Continental United States (1965), Air Force Contract No. AF19(628)-2351, Scientific Report No. 8, (Final Report) (with Arnold Orange and Keeva Vozoff).

Deep Resistivity Results from North Carolina, Virginia, Pennsylvania, Wisconsin, and Missouri (1964), Air Force Contract AF19(628)-2351, Scientific Report No. 5 (with Philip Nelson).

Guide for Plotting, Manipulation, and Interpretation of Pole-Dipole and Dipole-Dipole Master Curves (1964), Geoscience Bulletin.

GEORGE RYAN

Geophysical Technician

Geophysical Experience:

Geoscience, Inc. Cambridge, Mass.

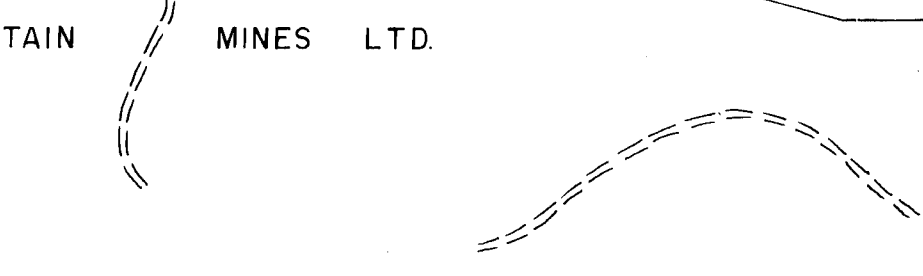
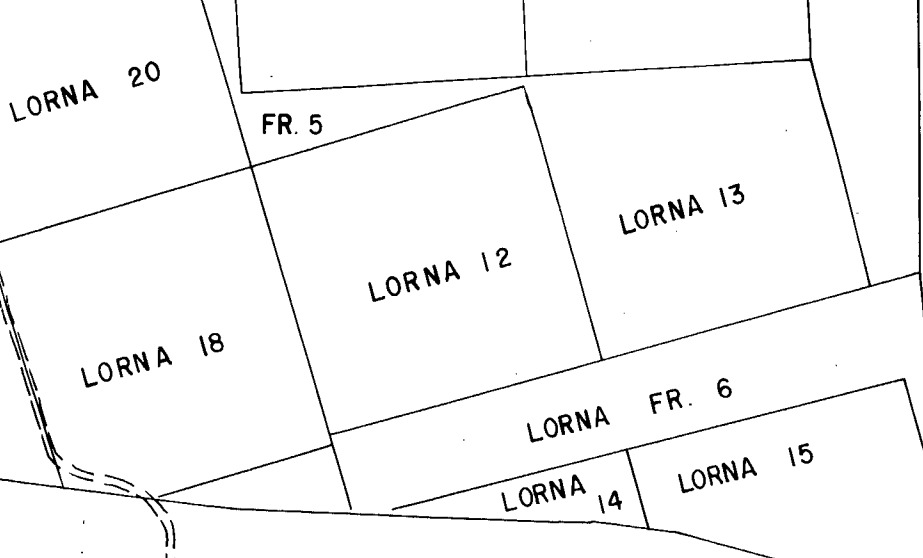
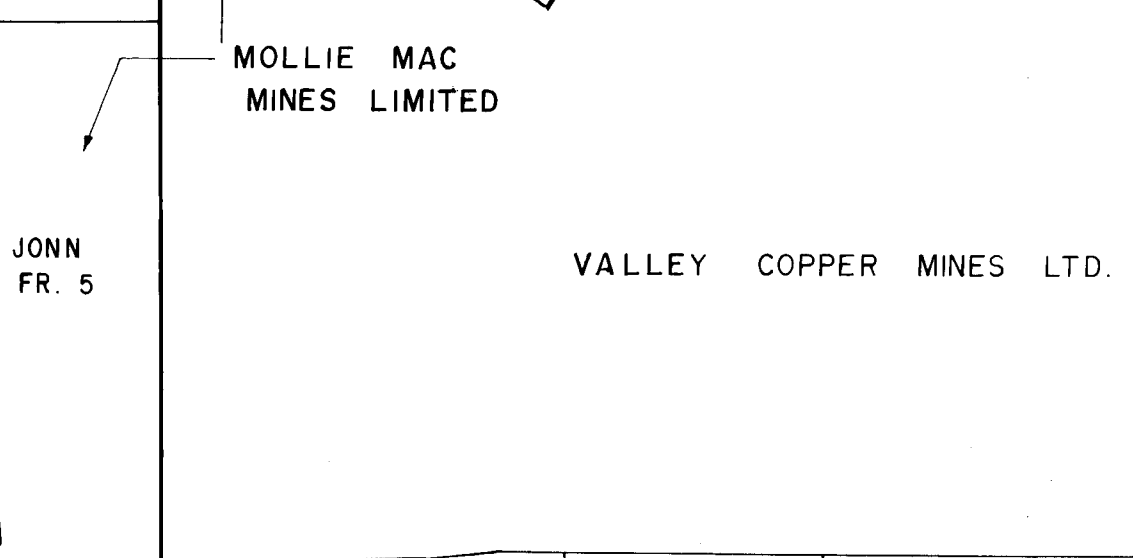
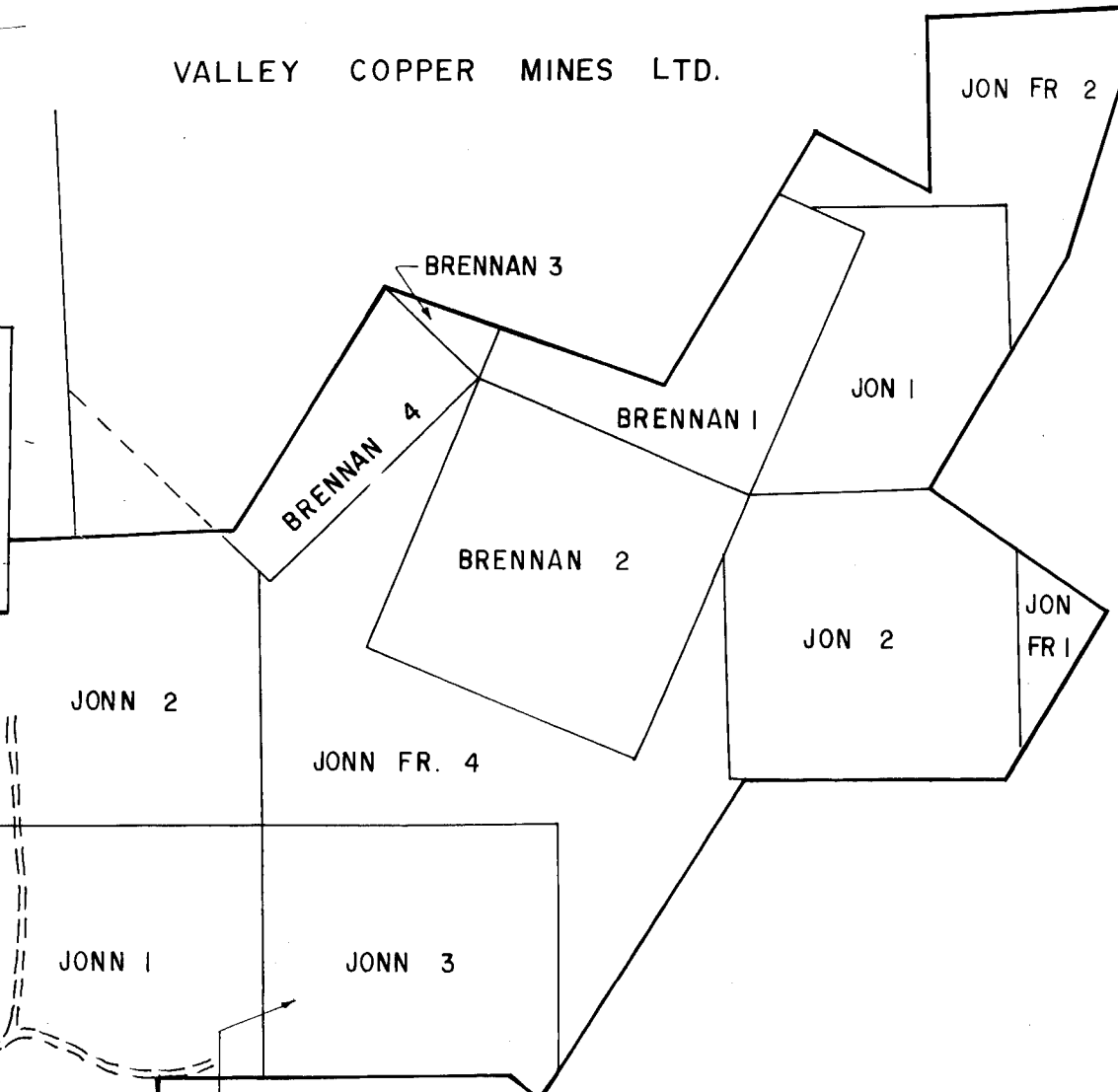
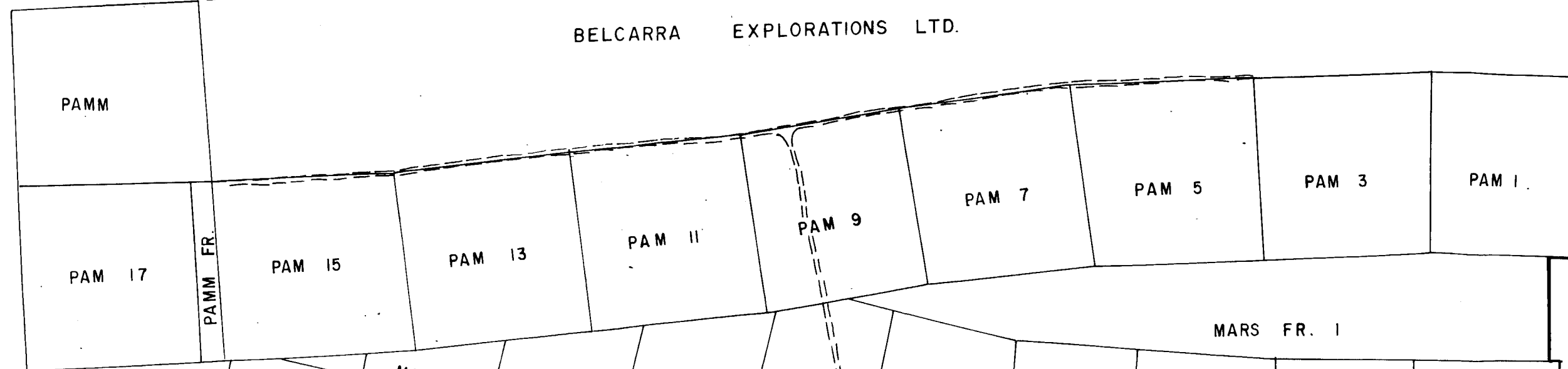
1965 - present.

Duties - George Ryan has operated on various geophysical field crews: resistivity; magneto-tellurics; electromagnetics; ground magnetometers; and induced polarization. He has had field experience throughout the continental United States and the Ivory Coast. In addition to field responsibilities, he has both constructed and repaired geophysical equipment.

NORTHLODE EXPLORATIONS LTD.

VALLEY COPPER MINES LTD.

BELCARRA EXPLORATIONS LTD.



staked

staked

HIGHLAND CHIEFTAIN MINES LTD.

TC EXPLORATIONS LTD.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2235 MAP #7

To Accompany Geochemical report on the
Lorna, Mat, Zen, Mars, Pam, & Mac Groups
Highland Valley, B.C.
Kamloops Mining Division
M.P. Stodnyk, December, 1969

2235

ZENITH MINING CORPORATION LTD. (N.P.L.)

Mineral Claim Map

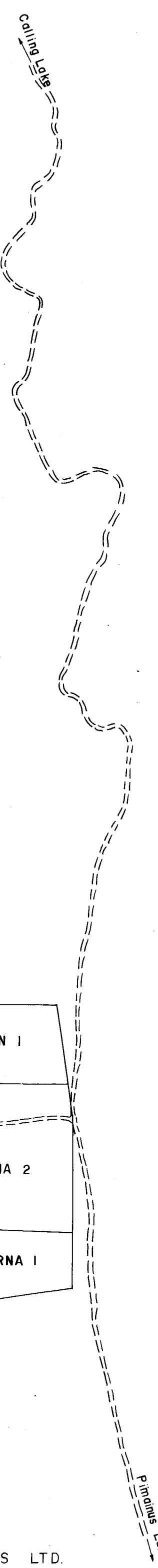
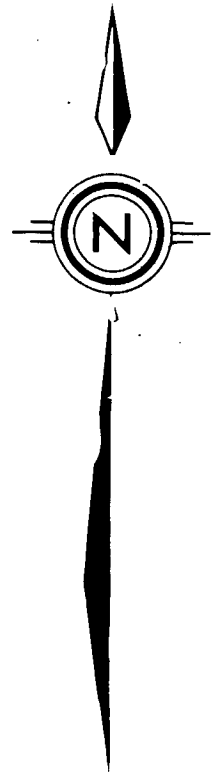
PIMAINUS LAKE - HIGHLAND VALLEY, B.C.

SCALE: 1" = 1000'

1000 500 0 1000 2000 3000

SCALE IN FEET

DRAWN BY: L.M. CHECKED BY: M.P.S. DECEMBER, 1969



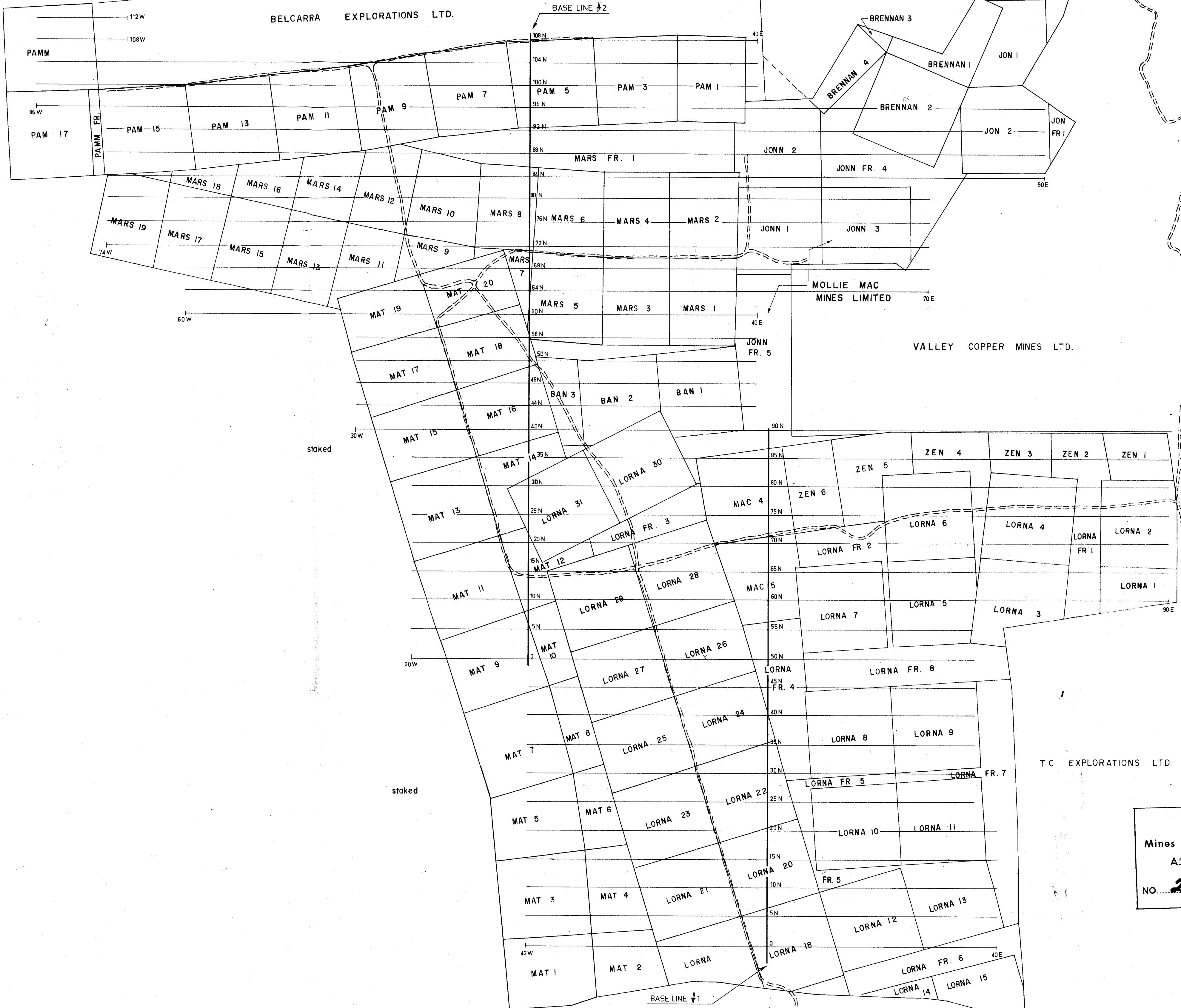
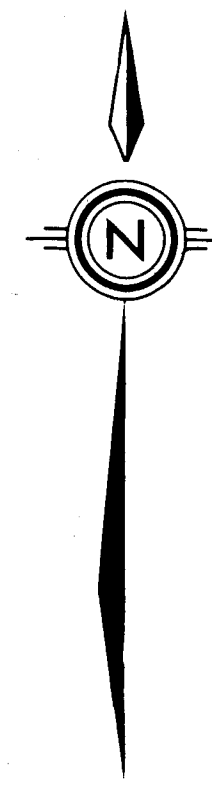
J.S. Hill
Dec. 22, 1969

NORTHLODE EXPLORATIONS LTD.

VALLEY COPPER MINES LTD.

BELCARRA EXPLORATIONS LTD.

JON FR 2



2235

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2235 MAP #4

TO ACCOMPANY INDUCED POLARIZATION REPORT ON
THE LORNA, MAT, MARS, PAM, AND MAC GROUPS
HIGHLAND VALLEY, B.C.,
KAMLOOPS, MINING DIVISION
M.P. STADNYK, DECEMBER 1969.

ZENITH MINING CORPORATION LTD. (N.P.L.)

Mineral Claim Map
AND
GRID LOCATION
PIMAINUS LAKE - HIGHLAND VALLEY, B.C.

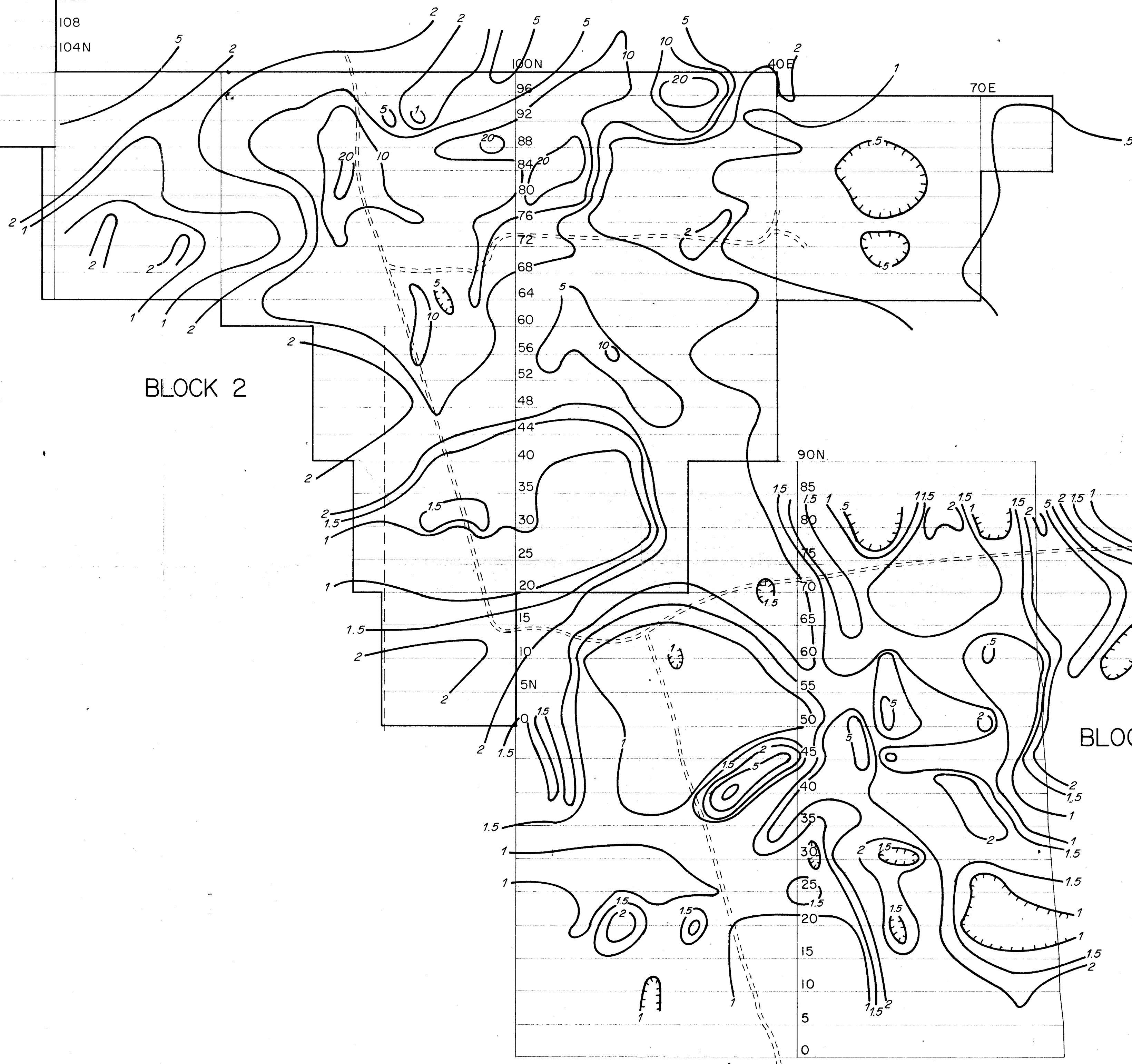
SCALE: 1" = 1000'

SCALE IN FEET

DRAWN BY: L.M. CHECKED BY: M.P.S. DECEMBER, 1969

86W

112N
108
104N



BLOCK 2

BLOCK 1

2235

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **2235** MAP **#3**

f.s. Hunt
Dec 29, 1969

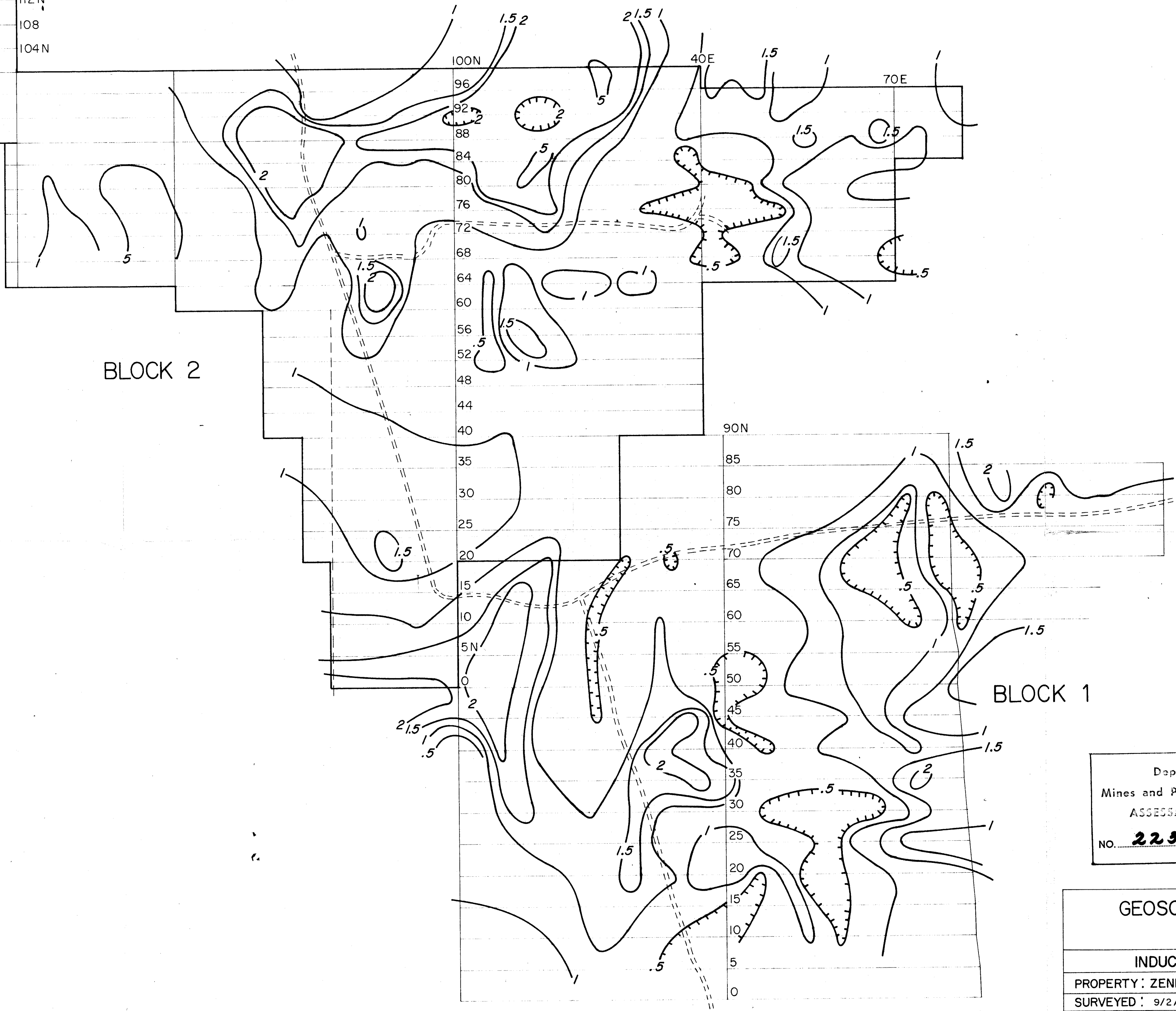
GEOSCIENCE INCORPORATED
199 BENT STREET
CAMBRIDGE, MASS.

INDUCED POLARIZATION SURVEY

PROPERTY: ZENITH MINING CORP. LTD.
SURVEYED: 9/2/69 - 10/26/69 APPROVED:
TITLE
METAL CONDUCTION FACTOR

DRAWN: 12/17/69 DRAWN BY: K. Tanaka
SCALE 1" = 800'

86W
112N
108
104N



BLOCK 2

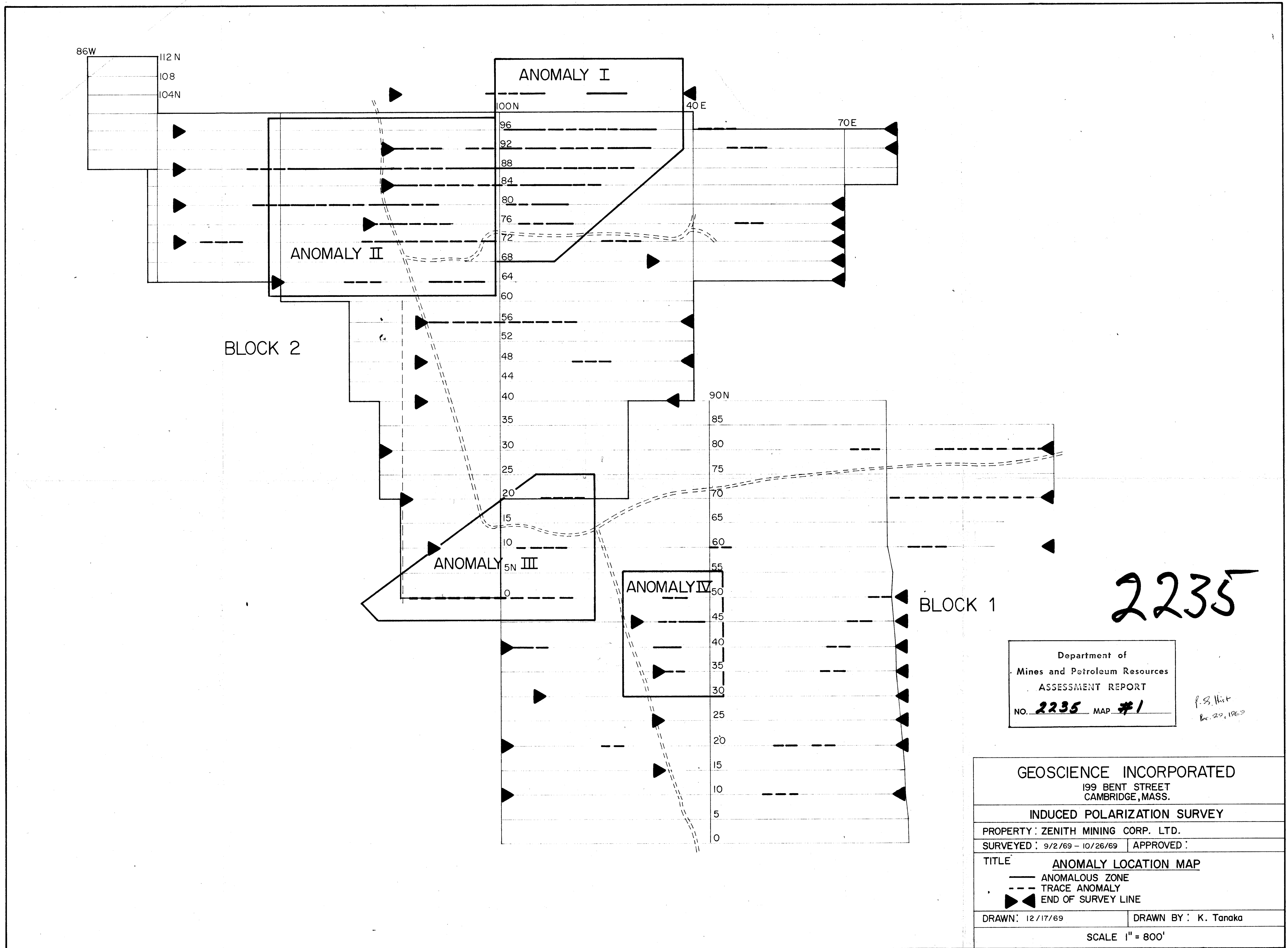
BLOCK 1

2235

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **2235** MAP #2

J.S. Hill
Dec. 29, 1969

GEOSCIENCE INCORPORATED 199 BENT STREET CAMBRIDGE, MASS.	
INDUCED POLARIZATION SURVEY	
PROPERTY: ZENITH MINING CORP. LTD.	
SURVEYED: 9/2/69 - 10/26/69	APPROVED:
TITLE APPARENT FREQUENCY EFFECT	
DRAWN: 12/17/69	DRAWN BY: K. Tanaka
SCALE 1" = 800'	



2235

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2235 MAP #1

P.S. Hill
Dec. 29, 1969

GEOSCIENCE INCORPORATED
199 BENT STREET
CAMBRIDGE, MASS.

INDUCED POLARIZATION SURVEY

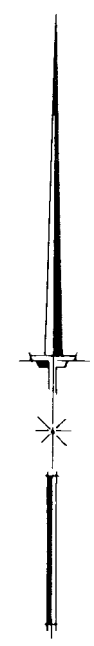
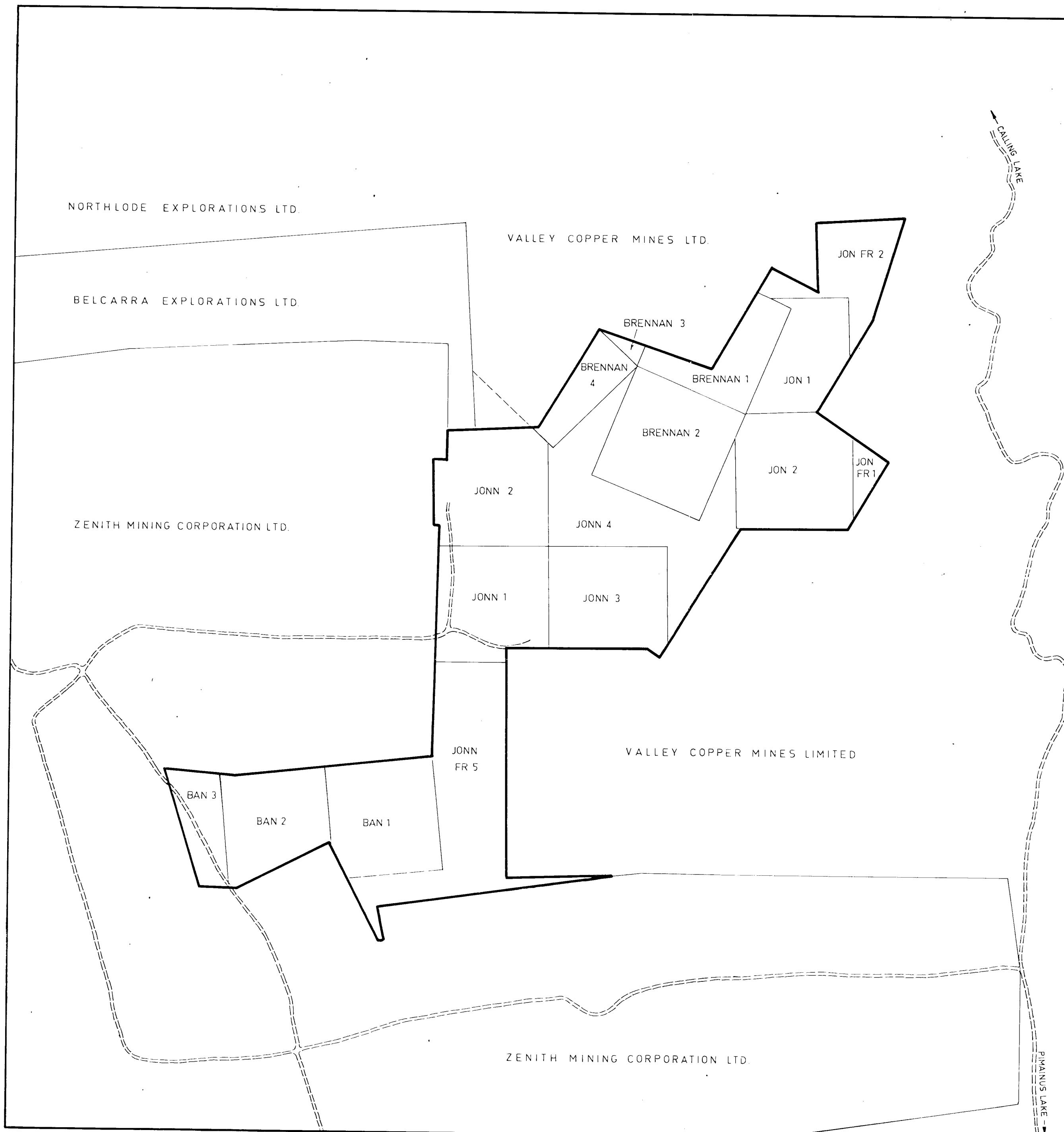
PROPERTY: ZENITH MINING CORP. LTD.
SURVEYED: 9/2/69 - 10/26/69 | APPROVED:

TITLE: **ANOMALY LOCATION MAP**

— ANOMALOUS ZONE
- - - TRACE ANOMALY
▶▶ END OF SURVEY LINE

DRAWN: 12/17/69 | DRAWN BY: K. Tanaka

SCALE 1" = 800'



Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **2235** MAP **#8**

2235

I.S. Hill
 Dec. 29, 1969

TO ACCOMPANY GEOCHEMICAL REPORT
 ON THE BRENNAN, JON, JONN and BAN
 GROUPS, HIGHLAND VALLEY, B.C.
 KAMLOOPS MINING DIVISION.
 M.P. STADNYK, DECEMBER, 1969

MOLLIE MAC MINES LIMITED
 MINERAL CLAIM MAP
 PIMAINUS LAKE - HIGHLAND VALLEY, B.C.

1000 500 0 1000 2000
 SCALE IN FEET

DRAWN BY: PV CHECKED BY: M.P.S. DECEMBER, 1969