

66 32
part 1 of 2

GEOLOGICAL, GEOCHEMICAL and PERCUSSION
DRILLING REPORT
on the
STUD 1-11, GAD, ZOOKS and ZEEKS
MINERAL CLAIMS
GUICHON PROJECT - ASHCROFT AREA
KAMLOOPS MINING DIVISION

NTS Sheet - 92I/11	UTM Grid - Zone 10
Latitude 50° 39.8'	North - 5613800
Longitude 121° 12.6'	East - 626600

BETHLEHEM COPPER CORPORATION
Suite 2100 - Guinness Tower
1055 West Hastings Street
Vancouver, B.C. V6E 2H8

November 8, 1977

R. J. Nethery, P.Eng.

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

NO. 6632

VOLUME II - DRAWINGS

SECTION G - ILLUSTRATIONS

<u>Drawing No.</u>	<u>Title</u>	<u>Scale</u>
GP-77-S 1	General Location Plan	1:250,000
GP-77-S 2	Location Plan - Area 1	1:50,000
GP-77-S 3	Mineral Claims (North Sheet)	1:10,000
GP-77-S 4	Mineral Claims (South Sheet)	1:10,000
GP-77-S 5	Geological Plan (North Sheet)	1:10,000
GP-77-S 6	Geological Plan (South Sheet)	1:10,000
GP-77-S 7	Geochemical Plan - Cu (North Sheet)	1:10,000
GP-77-S 8	Geochemical Plan - Cu (South Sheet)	1:10,000
GP-77-S 9	Geochemical Plan - Pb (North Sheet)	1:10,000
GP-77-S10	Geochemical Plan - Pb (South Sheet)	1:10,000
GP-77-S11	Geochemical Plan - Zn (North Sheet)	1:10,000
GP-77-S12	Geochemical Plan - Zn (South Sheet)	1:10,000
GP-77-S13	Geochemical Plan - Mo (North Sheet)	1:10,000
GP-77-S14	Geochemical Plan - Mo (South Sheet)	1:10,000
GP-77-S15	I.P. Survey - Chargeability (North Sheet)	1:10,000
GP-77-S16	I.P. Survey - Chargeability (South Sheet)	1:10,000
GP-77-S17	I.P. Survey - Resistivity (North Sheet)	1:10,000
GP-77-S18	I.P. Survey - Resistivity (South Sheet)	1:10,000
GP-77-S19	Magnetometer Survey (North Sheet)	1:10,000
GP-77-S20	Magnetometer Survey (South Sheet)	1:10,000

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SECTION A - SUMMARY OF WORK

Introduction:

The Guichon Project, a joint venture of Bethlehem Copper Corporation, Canadian Nickel Company Limited and Granges Exploration AB, was organized in early 1977 to carry out a regional exploration program along the perimeter of the Guichon batholith contact.

The initial area chosen for field investigations was in the northwest contact zone located immediately southeast of Ashcroft. Mineral claim acquisitions took place in February and June 1977 and during the period from May to August an extensive program of geological mapping, I.P. and magnetometer surveys and geochemical sampling was carried out along with a limited program of percussion drilling. The drilling, which was testing two I.P. anomalies, yielded no significant values.

Location and Access:

The property is centred some 8.5 km S 36° E of Ashcroft at geographic co-ordinates $50^{\circ} 39.8'$ latitude and $121^{\circ} 12.6'$ longitude. The U.T.M. grid reference is Zone 10, 5613800 N and 626600 E. The area held, however, extends 6 km north and south of the central point as well as 3.5 km east and 4.5 km west.

Access to the area is provided by the Highland Valley highway which cuts through the western side of the claim block for most of its entire length. Numerous gravel roads leading off the highway provide access to the interior portions of the property.

The location of the property is shown on drawing nos. GP-77-S 1 and S 2 which are appended in Section G.

Topography and Physical Environment:

The claims are situated on the eastern side of the Thompson River valley at elevations ranging from 550 m to 1830 m A.S.L. The property lies on the western and northwestern flank of Glossy Mountain which rises to a height of 1920 m immediately east of the claim block.

The area is cut by numerous drainage courses which are dry for most of the year due to the general semi-arid condition of the Ashcroft area, the annual precipitation being less than 30 cm. Two small lakes, Barnes and Willard, are situated in the northwest corner of the block.

Most of the claim area has moderate to heavy forest cover with lodgepole and ponderosa pine, and to a lesser extent douglas fir, being the predominant species.

Mineral Title:

The property on which the work was carried out was comprised of 14 modified grid claims totalling 256 units. The Stud 1-7 were staked in February, 1977, the Gad, Zooks and Zeeks in May and the Stud 8-11 in June. In addition to these, a fifteenth claim, the Stud 12 (10 units) was staked in October following the completion of the field programs and was located immediately adjacent to the Stud #8. Details of the claim holdings are set out in Section F. The total area held is some 6650 hectares.

Geology:

The claims are mainly underlain by Guichon batholith intrusives which are in contact on the west with Upper Triassic Nicola volcanics and sediments and Jurassic sediments, and on the east with Nicola roof pendant rocks. The intrusive varies in composition from diorite near the contact zones to quartz diorite in more distant areas.

On the property the Nicola group consists mostly of greenstones, meta-volcanics, chert and minor greywacke and limestone and the Jurassic rocks are mainly conglomerates, shales and argillite. Tertiary andesite flows border the claims on the east, northeast and northwest.

In the area of the large anomaly on Stud 4 and 5 the Nicola rocks are mainly chert and volcanics with minor limestone. The chert and silicified volcanics are generally moderately pyritized (< 1% pyrite) and where exposed to weathering exhibit strong limonite staining. South of the anomalous area the Nicola roof pendant rocks are mostly meta-volcanics and greenstones.

The anomalous area on Stud 1 partly covers Jurassic conglomerate outcrop. This conglomerate is composed mainly of pebbles of sedimentary, and to a lesser degree, volcanic origin and it contains no visible mineralization except for minor limonite staining.

A thin linear anomaly immediately to the west of Stud 8 trends N.N.E. across the contact between Nicola meta-volcanics and hybrid intrusive rocks. Outcrop is moderately common in the immediate area and weak pyrite was noted in certain locations.

The results of the field mapping are illustrated on drawing nos. GP-77-S 5 and S 6.

Geophysical Survey:

The firm of Glen E. White Geophysical Consulting and Services Ltd. was retained to carry out the Induced Polarization and magnetometer surveys. A series of parallel east-west grid lines spaced at 250 m was established on the Stud 1-6 claims, while on the Stud 7-10 the spacing was increased to 500 m. Stations at intervals of 100 m were set on each of the lines. The total length of grid established and surveyed was 153100 m or 153.1 km.

The I.P. survey indicated three anomalous areas. The largest of these was located on the east side of the Stud 4 and 5 mineral claims between grid lines 155 + 00 N and 170 + 00 N. This NNE trending anomaly averaged 600 m in width, contained readings up to 23 milliseconds and opened to the NNE.

A second anomaly was located in the northwest corner of the Stud 1 between grid lines 213 + 50 N and 220 + 00 N. It trended to the NE and averaged 250 m in width with values up to 8.9 milliseconds.

The third area detected was immediately adjacent to the west side of the Stud 8 between lines 165 + 00 N and 175 + 00 N. It has a thin linear configuration with values up to 15.9 milliseconds.

The magnetometer survey failed to reflect any noticeable magnetic differences between rock types; also no significant magnetic variances were detected.

The results of the geophysical survey are set out in Section C and the appropriate drawings numbered GP-77-S 15 to S 20 are appended in Section G.

Geochemical Survey:

The geochemical sampling was carried out by Bethlehem field personnel with the sampling stations being the same as those established for the geophysical survey. The bulk of the samples collected were of the soil variety and were taken from the top of the "B" horizon. Where no soil cover existed, rock samples were taken on either side of the outcrop area. All samples were analyzed for Cu, Pb, Zn and Mo at the Kamloops Research and Assay Laboratory.

The only portion of the geochemical survey that reflected any of the three I.P. anomalies was a Zn anomaly on the Stud 4 and 5 claims between grid lines 155 + 00 N and 170 + 00 N. All other geochemical anomalies were weak, small and unrelated to any I.P. or magnetic irregularities.

It should be noted that the values outlined on the geochemical maps roughly start at two times background and are arbitrarily divided thereafter. The reason for contouring these low values is to try and obtain patterns that would correspond to the I.P. anomalies. If the regular formulation for threshold (mean plus two standard deviations) and anomalous (mean plus four standard deviations) values were followed, very few patterns would be outlined and geophysical and geochemical correlation would not be possible.

The results of the sampling program are appended in Section D and set out on drawing nos. GP-77-S 7 to S 14.

Percussion Drilling:

Following an assessment of the anomalous areas, the decision was made to carry out a limited program of percussion drilling to test the largest anomaly and the anomaly located on the Stud 1.

Josco Mining Co. Ltd. of Kamloops was engaged to carry out this phase and between July 27 and August 17, 1977 they completed three holes totalling 304.8 metres.

Hole PC-77-1, located at 160 + 50 N and 120 + 50 E, was drilled to a depth of 91.4 m. A second hole, PC-77-2, located 430 m SW at 157 + 50 N and 117 + 50 E was completed to 106.7 m. Both holes yielded negative results and failed to provide any correlation with the geophysical or geochemical anomaly.

Hole PC-77-3 was sited at co-ordinates 215 + 00 N and 85 + 00 E. It was completed to a depth of 106.7 m but also failed to yield any significant values.

All holes were assayed for Cu, Pb and Zn values on 3.05 m intervals with composite 15.25 m samples being tested for Ni, Au and Ag.

The hole locations are plotted on drawing no. GP-77-S 5 and the drill hole logs and assay data are appended in Section E.

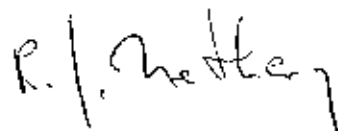
Discussion of Results:

From the drilling of the large anomaly on Stud 4 and 5, although the results were negative, it has been concluded by observation of the percussion chips that sufficient sulphides (1 - 4 %) are present to cause anomalous Induced Polarization readings. The mineralization consists mainly of pyrite and pyrrhotite and although not observed in large quantities in the percussion chips, sphalerite is presumed to be present because several 10' drill sections graded around .7% zinc.

The percussion drill hole on Stud 1 was for the most part in conglomerate with some interdispersed shale layers. Pyrite was observed throughout the hole and is estimated to average approximately .5% sulphides with some sections grading to 1%. No economic mineralization was encountered.

The long, thin linear anomaly immediately to the west of Stud 8 has now been covered by staking and a decision to drill will be delayed until the completion of a new budget.

Respectfully submitted,



R. J. Nethery, P.Eng.

SECTION B - STATEMENT OF EXPENDITURES

Expense period - April 1 to October 31, 1977

A. Consultant (see accompanying invoices)

1. Glen E. White Geophysical Consulting and Services Ltd. -
I.P. and magnetometer surveys

Invoice dated March 29, 1977	\$ 5,000	
Invoice dated May 2, 1977	9,252	
Invoice dated May 19, 1977	2,202	
Invoice dated June 2, 1977	6,770	
Invoice dated June 21, 1977	10,506	
Invoice dated July 6, 1977	5,814	
Invoice dated Oct., 1977	280	
	<u>\$39,824</u>	\$ 39,824.00
TOTAL CONSULTANT'S FEES		<u>\$ 39,824.00</u>

B. Contractors (see accompanying invoices)

1. Merritt-Funk Brothers Drilling Co. Ltd. (subcontractor to
Josco Mining Co. Ltd.) - access road construction and
slashing and cleanup of fallen timber)

Invoice dated Aug. 5, 1977	\$ 2,213.00	
Invoice dated Oct. 20, 1977	601.65	
	<u>\$ 2,814.65</u>	\$ 2,814.65

2. Josco Mining Company Ltd. - percussion drilling contractor.

Invoice dated Aug. 12, 1977	\$ 5,406.00	
Invoice dated Aug. 23, 1977	1,686.75	
Invoice dated Sept. 4, 1977	154.00	
	<u>\$ 7,246.75</u>	\$ 7,246.75

(continued)

3. Kamloops Research and Assay Laboratory

Invoice No. 1196 dated May 13, 1977	\$ 670.00	
Invoice No. 1208 dated May 20, 1977	726.00	
Invoice No. 1216 dated May 27, 1977	451.00	
Invoice No. 1222 dated June 1, 1977	184.00	
Invoice No. 1233 dated June 14, 1977	345.75	
Invoice No. 1246 dated June 30, 1977	551.75	
Invoice No. 1252 dated July 8, 1977	835.50	
Invoice No. 1255 dated July 9, 1977	291.75	
Invoice No. 1302 dated Aug. 18, 1977	961.00	
Invoice No. 1323 dated Aug. 26, 1977	542.00	
Invoice No. 1355 dated Sept. 23, 1977	<u>351.50</u>	
	\$5,910.75	\$ 5,910.75

4. General Testing Laboratories -

Invoice No. V33842 dated Oct. 13, 1977	\$140.00	
Invoice No. V33885 dated Oct. 31, 1977	<u>15.00</u>	
	\$155.00	\$ 155.00

5. Vancal Reproductions Ltd. - photographic enlargements and preparation of base maps

Invoice No. 9076 dated Apr. 14, 1977	\$ 73.22	
Invoice No. 9819 dated Aug. 9, 1977	<u>198.32</u>	
	\$271.54	\$ 271.54

6. Altair Drafting Services Ltd. - drafting @ \$12/hour

April 1977 - 12 hrs.	\$ 144.00	
May 1977 - 9 hrs.	108.00	
June 1977 - 35 hrs.	420.00	
July 1977 - 60 hrs.	720.00	
August 1977 - 65 hrs.	780.00	
Sept. 1977 - 15 hrs.	180.00	
October 1977 - 20 hrs.	<u>240.00</u>	
	\$ 2,592.00	
Printing - April 1977	\$ 65.56	
May 1977	10.42	
June 1977	49.13	
July 1977	65.91	
August 1977	16.78	
October 1977	<u>106.66</u>	
	\$ 314.46	\$ 2,906.46

TOTAL CONTRACTOR EXPENSES \$ 19,305.15

C. Bethlehem Expenditures - April 1 to October 31, 1977

1. Personnel

R. E. Anderson - Exploration Manager
10 days in general project supervision

8 days @ \$174.71	\$ 1,397.68	
2 days @ \$185.00	370.00	
	<u>\$ 1,767.68</u>	\$ 1,767.68

R. J. Nethery - Project Geologist

April 13-15, 27-29 (6); May 2-6, 9-13, 16-20,
24-27, 30, 31 (21); June 1-3, 6-10, 13-17, 20-24,
27-30 (22); July 25-29 (5); August 2-5, 8-12 (9);
September 1, 2, 6 (3); October 3-5, 28 (4).

54 days @ \$109.05/day	\$ 5,888.70	
16 days @ \$115.33/day	1,845.28	
	<u>\$ 7,733.98</u>	\$ 7,733.98

J. R. Bellamy - Geologist

May 16, 25; June 7; July 25, 26.
5 days @ \$101.07/day \$ 505.35 \$ 505.35

J. G. Collins - Field Supervisor

May 4, 13, 20, 25, 26, 31 (6); June 1-3, 6-10,
13-17, 20-24, 27-30 (22); July 25-29 (5);
August 2-5, 8-12, 15-19 (14).

33 days @ \$75.01/day	\$ 2,475.33	
14 days @ \$79.46/day	1,112.44	
	<u>\$ 3,587.77</u>	\$ 3,587.77

P. M. Mackinnon - Field Assistant

June 1-3, 6-10, 13, 14, 21-24, 27-30 (18);
July 25-29 (5); August 2-5, 8-12 (9).

32 days @ \$47.83/day	\$ 1,530.56	\$ 1,530.56
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B. Kynoch - Field Assistant

May 2-6, 9-13, 16-20, 24-27, 30, 31 (21);
June 1-3, 6, 20-24, 27-30 (13)

34 days @ \$49.21/day	\$ 1,673.14	\$ 1,673.14
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Personnel (continued)

S. O'Neill - Field Assistant

May 2-6, 9-13, 16-20, 24-27, 30, 31 (21);
June 1-3, 6-10, 20-24, 27-30 (17).

38 days @ \$46.55/day \$ 1,768.90 \$ 1,768.90

E. Andersen - Property Agent

13 days in general supervision, data compilation
and report preparation

7 days @ \$85.11/day \$ 595.77
6 days @ \$90.09/day 540.54
\$ 1,136.31 \$ 1,136.31

A. Parnaby - Secretary

1 day @ \$45.22/day \$ 45.22
3 days @ \$47.83/day 143.49
\$ 188.71 \$ 188.71

Total Personnel \$ 19,892.40

2. Transportation

R. J. Nethery - Ford F 100 4WD Pickup
63 days @ \$30/day \$ 1,890.00

J. R. Bellamy - Ford F 100 4WD Pickup
5 days @ \$30/day 150.00

J. G. Collins - Ford F 250 4WD Pickup
47 days @ \$35/day 1,645.00

Field Assistants - Ford F 250 4WD Pickup
21 days @ \$35/day 735.00

Total Transportation \$ 4,420.00

Bethlehem Expenditures (continued)

3. Lodging and Meals (see copies of expense accounts)

R. J. Nethery - expenses for the week ending:

May 8, 1977	\$ 175.61	
May 15, 1977	117.65	
May 22, 1977	120.69	
May 29, 1977	112.89	
June 5, 1977	61.45	
June 12, 1977	119.46	
June 19, 1977	134.10	
June 26, 1977	160.90	
July 3, 1977	115.73	
July 31, 1977	77.40	
Aug. 7, 1977	215.42	
Aug. 14, 1977	<u>99.34</u>	
	\$1,510.64	\$ 1,510.64

J. R. Bellamy - expenses for the week ending:

May 22, 1977	\$ 24.03	
May 29, 1977	50.00	
June 12, 1977	<u>40.00</u>	
	\$ 114.03	\$ 114.03

B. Kynoch - expenses for the week ending:

May 8, 1977	\$ 10.66	
May 15, 1977	18.07	
May 22, 1977	3.25	
June 19, 1977	<u>6.50</u>	
	\$ 38.48	\$ 38.48

S. O'Neill - expenses for the week ending:

May 8, 1977	\$ 113.04	
May 15, 1977	54.03	
May 22, 1977	34.28	
May 29, 1977	12.01	
June 5, 1977	41.58	
June 12, 1977	29.43	
June 26, 1977	<u>56.80</u>	
	\$ 341.17	\$ 341.17

Total Lodging and Meals	\$ 2,004.32
TOTAL BETHLEHEM EXPENDITURES	\$ 26,316.72
TOTAL PROPERTY EXPENDITURES	\$ 85,445.87

D. Distribution of Expenditures

1. General Expenses (to be distributed to geophysical, geochemical and drilling costs on a proportionate basis)

- general supervision, geologic mapping, drafting
and report preparation \$ 23,407.47

2. Geophysical Expenses -

Consultant's Fees \$ 39,824.00

64.19% of general expense \$ 15,025.25

Total geophysical \$ 54,849.25

No. of km surveyed 153.1

cost per line km \$ 358.26

3. Geochemical Expenses

Assaying \$ 4,055.75

Labour 4,972.60

Transport 735.00

Lodging and Meals 379.65

sub-total \$ 10,143.00

16.35% of general expense \$ 3,827.12

Total geochemical \$ 13,970.12

No. of samples taken 1433

cost per sample \$ 9.75

Distribution of Expenditures (continued)

4. Percussion drilling expenses

Road and slashing	\$ 2,814.65
Drilling contractor	7,246.75
Assaying	2,010.00
sub-total	<u>\$ 12,071.40</u>
19.46% of general expense	4,555.09
Total drilling cost	16,626.49
Total drilled	304.8 m
Cost per metre	<u>\$ 54.55</u>

Glen E. White

GEOPHYSICAL CONSULTING & SERVICES LTD.

9281 Beekwith Road, Richmond, British Columbia, V6X 1V7

Telephone: (604) 273-8062

March 29, 1977

BETHLEHEM COPPER CORPORATION
2100 Guinness Tower
1055 W. Hastings St.
Vancouver, B. C.

THE PROJECT

Glen E. White Geophysical Consulting & Services Ltd. will conduct a program of reconnaissance induced polarization and ground magnetometer surveying over the STUD 1-7 mineral claims near Barnes Lake in the Highland Valley area, B.C.

THE SURVEY

Induced Polarization

The survey will be conducted with a sensitive lightweight Huntco Lopo transmitter and Mark III receiver deployed in the Wenner array along E-W directed survey lines spaced 250 m apart, with an "a" spacing of 100 m and a traverse interval of 100 m involving some 136 km of surveying.

Magnetometer

The ground magnetometer survey will be conducted with a Scintrex MF-1 fluxgate magnetometer. Readings will be at 100 m intervals along the lines. All data will be corrected by the loop procedure to a master base station.

Survey Grid

The survey grid will consist of flagged reconnaissance lines spaced 250 m apart and numbered at 100 m intervals. The survey lines will be controlled by a master grid which uses the perimeter staking lines for control.

March 29, 1977

- 2 -

DATA PRESENTATION

The survey data chargeability, resistivity and magnetic intensity will be plotted and contoured on basemaps provided by Bethlehem Copper Corporation. Since all the data points have a grid location, the data will be key-punched and a computer printout of all data will be provided.

COST BREAKDOWN

Glen E. White Geophysical Consulting & Services Ltd. will provide the reconnaissance ground survey control, induced polarization and magnetometer surveying, data reduction and presentation including all meals and accommodations, transportation, drafting, equipment lease and all such costs related to the survey for an all inclusive cost of \$228/km (\$365/mile).

Glen E. White Geophysical Consulting & Services Ltd. will provide a summary report on the survey procedures, 4 map prints and a reproducible data plan for each survey.

Bethlehem Copper Corporation will provide base maps and airphotographs for survey control.

Glen E. White Geophysical Consulting & Services Ltd. will provide any additional interpretation or report preparation at normal consultant rates.

INSURANCE

Glen E. White Geophysical Consulting & Services Ltd. maintains Workmen's Compensation coverage, a \$500,000.00 liability policy with the Dominion of Canada General Insurance Company, a multiperil equipment insurance policy through Macaulay Nicolls Waitland, and \$500,000.00 public liability vehicle coverage through I.C.B.C.

Glen E. White GEOPHYSICAL CONSULTING & SERVICES LTD.

9251 Beckwith Road, Richmond, British Columbia, V6X 1V7

Telephone: (604) 273-8962

March 29, 1977

- 3 -

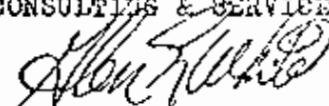
INDEMNIFICATION

Glen E. White Geophysical Consulting & Services Ltd., the contractor, shall indemnify and save Bethlehem harmless from and against all claims for loss, demands, costs, damages, actions, suits, contracts of other proceedings, whatsoever, by whomsoever made, brought, or prosecuted in respect of loss of life or personal injury or loss of or damage to property, including property of Bethlehem, howsoever caused, or obligation to compensate arising out of or in any way attributable to the operations performed by the contractor or any agent, sub-contractor or other person employed by the Contractor pursuant to the provisions contained in this agreement. In the event monies due hereunder to the Contractor shall be attached or claimed by any third person(s) as being due him from the Contractor, the Contractor shall be responsible for all costs, including solicitor-client costs, incurred by Bethlehem in dealing with such third person(s).


PAYMENT SCHEDULE

Should this proposal meet with your acceptance, please sign and return one copy for our files with a mobilization deposit of ~~\$5000.00~~ to initiate the program. Progress invoices will be submitted twice a month based on the survey progress. Upon completion of the program, the mobilization deposit will be deducted from the last invoice with the remainder becoming due and payable upon delivery of all maps and reports.

Yours truly,
GLEN E. WHITE GEOPHYSICAL
CONSULTING & SERVICES LTD.


Glen E. White, B.Sc.
President

Accepted on behalf of
Bethlehem Copper Corporation



Position VICE-PRES. CORPORATION

Date Apr. 15 / 1977

B-848



Glen E. White GEOPHYSICAL CONSULTING & SERVICES LTD.

8251 Beckwith Road, Richmond, British Columbia, V6X 1V7

Telephone: (604) 273-6962

May 2, 1977

Mr. R. Anderson
Exploration Manager
Bethlehem Copper Corporation
2100 Guinness Tower
1055 W. Hastings St.
Vancouver, B.C.

INVOICE

To Professional Services -

Glen E. White Geophysical Consulting & Services Ltd.

Recon. I.P. mag. - STUD claims

April 15- April 30/77 - 34 km @

\$228/km.....\$7752.00 ✓

Survey grid control - STUD 1-3

April 19-21 @ \$500/day.....1500.00 ←

Total.....\$9252.00

Amount of this invoice.....\$9252.00 ✓

ok. per Payment
308-548
FEB.
WR.

Glen E. White GEOPHYSICAL CONSULTING & SERVICES LTD.

8251 Backwith Road, Richmond, British Columbia, V6X 1V7

Telephone: (604) 273-8862

May 19, 1977

Mr. R. Anderson
Exploration Manager
Bethlehem Copper Corp.
2100 - 1055 W. Hastings St.
Vancouver, B.C.

INVOICE

To Professional Services -

Glen E. White Geophysical Consulting & Services Ltd.

Reconnaissance induced polarization

survey April 30 - May 12/77 -

26.5 km @ \$228/km.....\$6042.00

Detail I.P. May 3 and 5/77 @

\$580/day.....1060.00

Radon gas and scintillometer

survey May 13/77.....100.00

Total.....\$7202.00

Amount of this invoice.....\$7202.00

LESS MOBILIZATION DEPOSIT

5,000.00

2202.00

308-848
RCA
B

Geob. Project

Glen E. White GEOPHYSICAL CONSULTING & SERVICES LTD.

9251 Beckwith Road, Richmond, British Columbia, V8X 1V7

Telephone: (604) 273-0962

June 2, 1977

Mr. R. Anderson
Exploration Manager
Bethlehem Copper Corporation
2100 - 1055 W. Hastings St.
Vancouver, B.C.

INVOICE

To Professional Services -

Glen E. White Geophysical Consulting & Services Ltd.

Reconnaissance induced polarization
survey May 13 - 31, 1977 - 27½ km

⊙ \$228/km.....	\$6270.00	
Staking May 22, 27/77 ⊙ \$500/day.....	1000.00	←
Baseline control May 16, 26 and 29th.....	500.00	←
Recording fees GAD, ZEEK and ZOOK claims..	220.00	←
Total.....	\$7990.00	

Amount of this invoice.....\$7990.00

8-845 \$1000.00
 8-843 \$ 6770.00
 8-935 \$ 220.00

for Payment
 58-843
 128
 112.

MA
 6.6.77

no. 022 May 11 1977

46E
REAL

Glen E. White GEOPHYSICAL CONSULTING & SERVICES LTD.

2251 Beckwith Road, Richmond, British Columbia, V8X 1V7

Telephone: (604) 273-6982

June 21, 1977

Mr. R. Anderson
Exploration Manager
Bethlehem Copper Corporation
2100 - 1055 W. Hastings St.
Vancouver, B.C.

INVOICE

To Professional Services -

Glen E. White Geophysical Consulting & Services Ltd.

Reconnaissance induced polarization

survey June 1 - 20, 1977 - 39½ km

@ \$228/km.....\$9006.00

Baseline control STUD 8 and 9 -

June 19 @ \$500/day.....500.00

Invoice correction from June 2 should

have read baseline control May 16, 26

and 29/77 @ \$500/day - \$1500.00

Amount paid.....500.00

Balance.....\$1000.00.....1000.00

Total....\$10,506.00

Amount of this invoice.....\$10,506.00

*Exploration Report
Outstanding invoice
45000*

*103-548
RET
H*

218.008
110-002

Glen E. White GEOPHYSICAL CONSULTING & SERVICES LTD.

9251 Beckwith Road, Richmond, British Columbia, V6X 1V7

Telephone: (604) 273-6982

July 6, 1977

Mr. R. Anderson
Exploration Manager
Bethlehem Copper Corporation
2100 - 1055 W. Hastings St.
Vancouver, B.C.

INVOICE

To Professional Services -

Glen E. White Geophysical Consulting & Services Ltd.

Reconnaissance induced polarization

survey June 21 - 29/77 - 25.5 km

• \$228/km.....\$5814.00 ✓

Amount of this invoice.....\$5814.00

218.008
110-002

acc-84
218.008
110-002

Glen E. White

GEOPHYSICAL CONSULTING & SERVICES LTD.

9251 Beckwith Road, Richmond, British Columbia, V6X 1V7

Telephone: (604) 273-6962

October 6, 1977

Mr. R. Anderson, P. Eng.
Exploration Manager
Bethlehem Copper Corp. Ltd.
2100 - 1055 W. Hastings St.
Vancouver, B.C.

INVOICE

STUD CLAIMS

To Professional Services -

Glen E. White Geophysical Consulting & Services Ltd.

Induced Polarization Profiles -

Computer programming and plotting.....\$80.00 /

Data sorting and handling.....200.00 /

Total.....\$280.00 /

Amount of this invoice.....\$280.00 /

008-845
R.E.
R

PHONE: 579-9127

JOSCO MINING CO. LTD.

P.O. Box 665, KAMLOOPS, B.C. V2C 5L7

BERNARD COPPER CORP. LTD.
2100 - 1055 West Hastings Street
VANCOUVER, B.C.

August 5, 1977

Dear Sirs:

Following is a statement of our account for slashing and road building on your Highland Valley property, during the period July 28th - Aug. 1, 1977: -

LABOR CHARGES

32 man hours @ \$10.00 per hr.	\$320.00	
32 man hours @ \$15.00 per hr.	\$480.00	
28 man hours @ \$20.00 per hr.	\$560.00	
Total Labor Charges	1360.00	\$ 1360.00

EQUIPMENT RENTALS

Case 850 Bulldozer 2 days @ \$150.00 per day	\$300.00	
Power Saw - 5 days @ \$ 11.00 per day	\$ 55.00	
Pick Up - 615 miles @ \$ 0.20 per mile	\$123.00	
Total Equipment Rentals	\$478.00	\$ 478.00

FUEL & SUPPLIES

Diesel Fuel - 45 gals @ \$ 0.61 per gal.....	\$ 27.45	
Hydraulic Fluid - 10 gals @ \$ 2.622 per gal.....	\$ 26.22	
Transmission Fluid - 1 case	\$ 22.26	
Hydraulic Hose Repair	\$ 9.89	
Total Supplies	\$ 85.82	\$ 85.82

Transport Bulldozer Kamloops to Job Site \$ 88.00

Total Charges \$ 2011.82

Plus 10% 201.18

Total Amount Due \$ 2213.00

Yours very truly,

John W. Scott
John W. Scott,
Josco Mining Co. Ltd.

008-851
R.P.
(Barnes Road (Inverhuron).
R

557-004
110-002

Merritt-Funk Brothers Drilling
Company Limited
P.O. Box 2077
Merritt, B.C.
VOK-280

Phone 378-4152

Bathlehem Copper Corp.
2100-1055 West Hastings Street
Vancouver, B.C.

August 12, 1977

Dear Sirs:

Following is a statement of our account for slashing and cutting
of road on your Highland Valley property, during the period of
August 9th - August 11, 1977:

Labor Charges

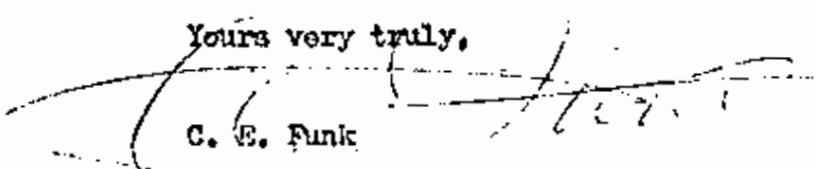
32 man hours @ \$10.00 per hr.	\$ 320.00
6½ man hours @ \$15.00 per hr.	\$ 97.50
Total Labor Charges	\$ 417.50

Equipment Rentals

Power Saw- 4 days @ \$11.00 per day	\$ 44.00
Pick Up- 492 miles @ \$0.20 per mile	\$ 98.40
Total Equipment Rentals	\$ 142.40

Total Charges	\$ 559.90
Plus 10%	\$ 55.99
Total Amount Due	<u>\$ 615.89</u>

Yours very truly,


C. E. Funk
Merritt-Funk Brothers Drilling
Company Limited

Handwritten notes:
C. E. Funk
Merritt-Funk Brothers Drilling
Company Limited

Handwritten note: 10% plus on balance only

REA:
HGE

MERRITT-FUNK BROTHERS DRILLING
COMPANY LIMITED
P.O. Box 2077
Merritt, B.C.
VOK 2B0
Phone 378-4152

BETHLEHEM COPPER CORP.
2100-1055 West Hastings Street
Vancouver, B.C.

October, 20 1977

Attention: Robin Anderson

Dear Sirs,

Further to our telephone conversation (Funk-Anderson)
of October 18 1977, enclosed please find the discussed statements.
The following is a brief rundown of these statements and monies
due.

Josco Mining Company Ltd.

August 5, 1977

Amount Billed \$2213.00 Adjustment -\$65.18 Received \$2213.00 Balance Cr. \$65.18

Merritt-Funk Brothers Drilling Company Limited

August 12, 1977

Amount Billed \$615.89 Adjustment -\$14.24 Received \$ nil Balance Dr. \$601.65

Merritt-Funk Brothers Drilling Company Limited

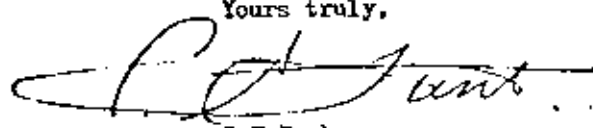
August 30, 1977

Amount Billed \$3020.05 Adjustment -\$151.00 Received \$2303.92 Balance Dr. \$65.18

Balance Outstanding \$601.65

Trusting this meets with your approval. Thank you for your attention in
this matter.

Yours truly,



C.E. Funk
Merritt-Funk Brothers
Drilling Company
Limited

*at for payment
008-851
RET
(see attached invoices)*

19-9127.

JOSCO MINING CO. LTD.
P.O.Box 665, Kamloops, B.C. V2C 5L7.

AUG 15 1977. *REC*

August 12, 1977.

Chlohem Copper Corp. Ltd.
100 - 1055 West Hastings St.
Vancouver, B.C.

Dear Sirs:

Attention: Mr. Robin Anderson.

Following is a statement of our account for percussion drilling on your Barnes Lake property, during the period July 27 to Aug. 8, 1977:

Hole No.	Bedrock Depth	Feet Cased	Total Footage Drilled	Water Truck
Stud 77-2	10 ft.	30 ft.	350 ft.	4 shifts
Stud 77-1	10 ft.	30 "	300 "	2 shifts
Totals.....			650 ft. ✓	6 shifts. ✓

Drilling Charges- 650 ft. @ \$3.50 per ft..... \$ 2275.00 ✓

Mobilization Charges

July 27- Loaded Charges- Merritt to Drill Site \$ 147.00
 6 man hrs. @ \$10.00 per hr..... 60.00 ✓
 Aug. 2 Move water truck to site- 1/2 shift @ \$60.00 per shift 30.00 ✓
 6 man hrs. @ \$10.00 per hr..... 60.00 ✓
Pickup- 240 miles @ \$0.20 per mile 48.00 ✓

Total Mobilization Charges..... \$ 345.00 \$ 345.00 ✓

Water Truck Charges- 6 shifts @ \$60.00 per shift \$ 360.00 ✓

Drill Standby Charges Re Water Haul

Date	Man Hrs.,	Equipment Hrs.
Aug. 3	18 hrs.	8 hrs.
" 4	24 "	8 "
" 5	14 "	2 1/2 "
" 6	14 "	7 "
" 7	12 "	6 "
" 8	11 "	5 1/2 "
Totals	82 hrs. ✓	37 hrs. ✓

37 hrs. equipment rental @ \$30.00 per hr..... \$ 1110.00 ✓
 82 man hrs. @ \$10.00 per hr..... 820.00 ✓
 Plus 10% on Labor Charges only..... 82.00 ✓

Total Standby Charges \$ 2012.00 \$ 2012.00 ✓

Tractor Charges Re Water Truck Towing

Aug. 4 Move Tractor- Merritt to Job Site- 1/2 hrs. @ \$23.50 per hr.... 114.00 ✓
 Aug. 4-8 Tractor Rental..... 5 shifts @ \$60.00 per shift 300.00 ✓

Total Amount Due..... \$ 5406.00 ✓

Yours very truly,

John W. Scott,
Josco Mining Co. Ltd.

*O.K. for Payment
John W. Scott
11/2/77*

*944-208
110-500*

*008-944
REC.*

579-2127.

JOSCO MINING CO. LTD.
P.O.Box 665, Kamloops, B.C. V2C 5L7.

AUG 25 1977 REA ✓

Aug. 23, 1977.

HGE

Bethlehem Copper Corp. Ltd.
2100 - 1055 West Hastings St.
Vancouver, B.C.

Dear Sirs:

Attention: Mr. Robin Anderson.

Following is a statement of our account for percussion drilling on your Barnes Lake property in Highland Valley August 16 & 17, 1977:

Hole No.	Bedrock Depth	Feet Cased	Total Footage Drilled	Water Truck
STUD 77-3	5 ft.	20 ft.	350 ft.	2 shifts.

Drilling Charges 350 ft. @ \$ 3.50 per ft..... \$ 1225.00 ✓

Water Truck Charges 2 shifts @ \$60.00 per shift..... 120.00 ✓

Moving Charges- Hole Stud 77-2 to Stud 77-3

Aug. 16 - Lowbed charges Hole 77-2 to 77-3.....	\$ 57.75
2 man hrs. @ \$10.00 per hr.....	20.00 ✓
1 hr. equipment rental @ \$30.00 per hr.....	30.00 ✓
Plus 10% on labor charge.....	2.00

Total Moving Charges \$ 109.75 \$ 109.75 ✓

De-Mobilization Charges

Lowbed charges-Highland Valley to Merritt..	\$ 154.00 ✓
6 man hrs. @ \$10.00 per hr.....	60.00
Pickup- 60 miles @ \$0.20 per mile.....	12.00 ✓
Plus 10% on Labor charges	8.00

Total de-mobilization charges\$ 232.00 \$ 232.00 ✓

Total Amount Due..... \$ 1686.75 ✓

Yours very truly,

John W. Scott,
Josco Mining Co. Ltd.

O.K. for Payment
Low & Callis
chse # 8-944
RST
HGE

579-9129.

JOSCO MINING CO. LTD.
P.O.Box 665, Kamloops, B.C. V2C 5L7.

SEP - 7 1977 Rec. ✓
Sept. 4, 1977. HGE

Bethlehem Copper Corp. Ltd.
2100 - 1055 West Hastings St.
Vancouver, B.C.

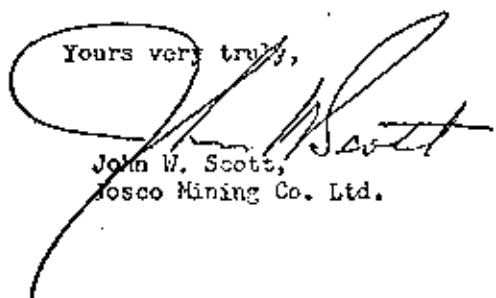
Dear Sirs: Attention: Mr. Robin Anderson.

Following is a statement of additional charges for percussion drilling on your Barnes Lake property, omitted from our previous statements of Aug. 12 & 23:

Additional De-Mobilization Charges

Aug. 13- Moved Bulldozer from jobsite to Merritt as instructed

4 hrs. rental for truck & driver @ \$28.50 per hr.....	\$ 114.00	✓
4 man hrs. @ \$10.00 per hr.....	\$ 40.00	✓
Total Amount Due.....	<u>\$ 154.00</u>	X

Yours very truly,

John W. Scott,
Josco Mining Co. Ltd.

ok for Payment.
008-944
RTH
H

Kamloops Research
&
Assay Laboratory
LTD.



MAY 16 1977 KA ✓

B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4
PHONE 372-2784

Bethlehem Copper Corporation,
2100 - 1050 West Hastings St.,
Vancouver, B. C.
V6E 2R8

INVOICE: 1196
DATE: May 13, 1977.
FILE NO. G-154
K-1260

G-154:	233 Geochemical Analyses -- ppm Copper, Lead, Zinc, Molybdenum @ \$2.75	\$640.75 ✓
	(\$1.00 first element, \$0.50 each additional + Sample Preparation, Soil @ \$0.25)	
K-1260:	9 Geochemical Analyses -- ppm Copper, Lead, Zinc, Molybdenum @ \$3.25	29.25 ✓
	(\$1.00 first element, \$0.50 each additional + Sample Preparation, Rock @ \$0.75)	\$670.00 ✓

8-842
A.
— K

Kamloops Research
&
Assay Laboratory
LTD.



MAY 20, 1977

B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4
PHONE 372-2784

Bethlehem Copper Corporation,
2100 - 1055 West Hastings St.,
Vancouver, B. C.
V6E 2H8

INVOICE: 1208

DATE: May 20, 1977.

FILE NO. G-157

✓ 212 Geochemical Analyses - Soils -- ppm Copper, Lead,
Zinc, Molybdenum @ \$2.75

\$583.00

(\$1.00 first element, \$0.50 each additional
+ Sample Preparation @ \$0.25)

✓ 44 Geochemical Analyses - Rock -- ppm Copper, Lead,
Zinc, Molybdenum @ \$3.25

143.00

(\$1.00 first element, \$0.50 each additional
+ Sample Preparation @ \$0.75)

\$726.00

8-847

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PAID JUNE 7 E.A. ✓

Kamloops Research
&
Assay Laboratory
LTD.



B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4
PHONE 372-2784

Bethlehem Copper Corporation,
2100 - 1055 West Hastings Street,
Vancouver, B. C.
V6E 2H8

INVOICE: 1216
DATE: May 27, 1977.
FILE NO. G-159

125 Geochemical Analyses - Soils - ppm Copper, Lead, Zinc, Molybdenum @ \$2.75	\$343.75 ✓
33 Geochemical Analyses - Rock - ppm Copper, Lead, Zinc, Molybdenum @ \$3.25	107.25 ✓
	<u>\$451.00</u> ✓

8-847

Handwritten initials/signature

Kamloops Research
&
Assay Laboratory

LTD.



B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 6N4

PHONE 372-2784

Bethlehem Copper Corporation,
2100 - 1055 West Hastings Street,
Vancouver, B. C.
V6E 2H8

INVOICE: 1222

DATE: June 1, 1977.

FILE NO. G-162

22 Geochemical Analyses - Soils - ppm Copper, Lead, Zinc, Molybdenum @ \$2.75	\$ 60.50	✓
38 Geochemical Analyses - Rock - ppm Copper, Lead, Zinc, Molybdenum @ \$3.25	123.50	✓
	<u>\$184.00</u>	X

8-842

Kamloops Research
&
Assay Laboratory
LTD.



B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4
PHONE 372-2784

Bethlehem Copper Corporation,
2100 - 1055 West Hastings Street,
Vancouver, B. C.
V6E 2H8

INVOICE: 1233
DATE: June 14, 1977.
FILE NO. G-165

95 Geochemical Analyses - Soils - ppm Copper, Lead Zinc, Molybdenum @ \$2.75	\$261.25 ✓
26 Geochemical Analyses - Rock - ppm Copper, Lead Zinc, Molybdenum @ \$3.25	84.50 ✓
	<hr/>
	\$345.75
	<hr/>

842-008

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Kamloops Research
&
Assay Laboratory
LTD.



B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4

PHONE 372-2784

EA

Bethlehem Copper Corporation,
2100 - 1055 West Hastings Street,
Vancouver, B. C.
V6E 2H8

INVOICE: 1246
DATE: June 30, 1977.
FILE NO. G-~~168~~168

177 Geochemical Analyses - Soil - ppm Copper, Lead, Zinc, Molybdenum @ \$2.75	\$486.75 /
20 Geochemical Analyses - Rock - ppm Copper, Lead, Zinc, Molybdenum @ \$3.25	65.00 /
	<hr/>
	\$551.75 /
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Kamloops Research
&
Assay Laboratory

LTD.



JUL 12 1977

B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4

PHONE 372-2784

Bethlehem Copper Corporation,
2100 - 1055 West Hastings Street,
Vancouver, B. C.
V6E 2H8

INVOICE: 1252

DATE: July 8, 1977.

FILE NO. G-170

240 Geochemical Analyses - Soils - ppm Copper, Lead,
Zinc, Molybdenum @ \$2.75

\$660.00 ✓

54 Geochemical Analyses - Rock - ppm Copper, Lead,
Zinc, Molybdenum @ \$3.25

175.50 ✓

\$835.50 ✓

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JUL 12 1977

Kamloops Research
&
Assay Laboratory
LTD.



B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4
PHONE 372-2784

Bethlehem Copper Corporation,
2100 - 1055 West Hastings St.,
Vancouver, B. C.
V6E 2H8

INVOICE: 1255

DATE: July 9, 1977.

FILE NO. G-173

99 Geochemical Analyses - Soils - ppm Copper, Lead, Zinc, Molybdenum @ \$2.75	\$272.25 ✓
6 Geochemical Analyses - Rock - ppm Copper, Lead, Zinc, Molybdenum @ \$3.25	19.50 ✓
	<u>\$291.75 ✓</u>

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Kamloops Research
&
Assay Laboratory
LTD.



B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4

PHONE 372-2784

AUG 20 1977

EA
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11/20

Bethlehem Copper Corporation,
2100 - 1055 West Hastings Street,
Vancouver, B. C.
V6E 2H8

INVOICE: 1302

DATE: August 18, 1977.

FILE NO. K-1374

62 Copper Assays @ \$4.50	\$279.00 /
62 Lead Assays @ \$5.50	341.00 /
62 Zinc Assays @ \$5.50	341.00 /
	<u>\$961.00</u> ✓

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Kamloops Research
&
Assay Laboratory
LTD.



AM RSD
B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4
PHONE 372-2784

Bethlehem Copper Corporation,
2100 - 1055 West Hastings St.,
Vancouver, B. C.
V6E 2H8

INVOICE: 1323

DATE: August 26, 1977.

FILE NO. K-1389

35	Copper Assays	@ \$4.50	\$157.50	✓
35	Lead Assays	@ \$5.50	192.50	✓
35	Zinc Assays	@ \$5.50	192.50	✓
			<u>\$542.50</u>	✓

8-34Z

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Kamloops Research
&
Assay Laboratory
LTD.



B.C. CERTIFIED ASSAYERS SEP 26 1977

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V7C 5N4
PHONE 372-2784

REA 113

Bethlehem Copper Corporation,
2100 - 1055 West Hastings St.,
Vancouver, B. C.

INVOICE: 1355
DATE: September 23, 1977.
FILE NO. K-1424

19 Gold & Silver Assays @ \$8.50	\$161.50
19 Nickel Assays @ \$6.00	114.00
Composite preparation charge:	
95 samples @ \$0.50 -- Gold, Silver, Nickel	47.50
57 samples @ \$0.50 -- 30 element spec.	28.50
	<u>\$351.50</u>

8-842
A
K.S.

INVOICE

30 ✓



General Testing Laboratories Division
Superintendence Company (Canada) Ltd.

1001 East Pender St.
Vancouver, B.C. V6A 1W2
Ph (604) 254-1647

INVOICE V33842
DATE October 13, 1977
JOB NO.
CAB NO. 7710-0351

BO 125

TO: BETHLEHEM COPPER CORPORATION LTD
2100 - 1055 West Hastings Street
Vancouver, B.C.
V6E 2H8

To: Submitted samples for spectrographic analysis;
(as per enclosed report)

7 samples x 20.00 = \$ 140.00

8-842

DUE AND PAYABLE ON RECEIPT OF INVOICE. 1% PER MONTH (18% PER ANNUM CHARGED ON OVERDUE ACCOUNTS

INVOICE



General Testing Laboratories Division
 Superintendence Company (Canada) Ltd.
 1001 East Pender St
 Vancouver, B.C. V6A 1W2
 Ph (604) 254-1647

NOV - 3 1977
 C.P.
 J.N.
 H.C.E.
 R.E.A.

INVOICE	V 33885
DATE	October 31, 1977
PROJECT	
LAB NO	7710-0351B/1757

BO 125

TO: BETHLEHEM COPPER CORPORATION LTD.
 2100 - 1055 West Hasting Street
 Vancouver, B.C.
 V6E 2H8

To : Assaying submitted samples of Pulp/Ore/Soil (as per attached copies) for:

7710-0351B	1 AuAgNi	=	15.00	15.00
7710-1757	120 CuMoPbZn	: 3.00	=	360.00
	sample prep.	@ 0.50	=	60.00
			<u>420.00</u>	
	Less 8% discount		<u>33.60</u>	386.40

8-84Z \$15.00
 31-84Z \$386.40
 K C A

\$ 401.40

DUE AND PAYABLE ON RECEIPT OF INVOICE. 1% PER MONTH (18% PER ANNUM CHARGED ON OVERDUE ACCOUNTS)



INVOICE

VANCAL REPRODUCTIONS LTD. Letraset

1777 WEST 3RD AVE.
VANCOUVER B.C. V6J 1K7
893-6084

CUST. ORDER NO. 8-860

INVOICE NUMBER	
9819	
ACCOUNT NUMBER	DATE
	DAY MO. YR.

CUST. ACQ. NO. _____

DATE SHIPPED _____

VIA _____

PPD. P.P.D. & CHG. COLL.

SOLD TO

BETHLEHEM COPPER GOLD CO.
STE 2100
1055 WEST HASTINGS ST
VANCOUVER B.C.

GENERAL NOTICE

Items sold by VANCAL REPRODUCTIONS LTD. are subject to discontinuance and price change without notice, title passes to buyer upon delivery of goods to carrier.

Claims against the carrier must be made by the consignee within time limit specified by the Carrier.

CLAIMS CLAUSE
Claims must be made within TEN DAYS after receipt of the goods and be accompanied by our packing ticket. No goods may be returned for credit without first securing permission. Goods so returned will be subject to charge of 10% for rehandling transportation to be paid by shipper.

SHIP TO: Exploration Dept. 2300

QUANTITY ORDERED	UNIT	PRODUCT NO.	SIZE	DESCRIPTION	BACK ORDER	SHIPPED	UNIT PRICE	AMOUNT	CODE
6				Micro-Master Negative		6	3.00	18.00	✓
6				Film Positives		49 ⁰	2.90	142.10	✓
6				Blackline		49 ⁰	1.11	5.39	✓
(Replaces 9810 2 units)									

TERMS
NET 30 DAYS
INTEREST AT 24% PER ANNUM
CALCULATED MONTHLY WILL BE
CHARGED ON OVERDUE ACCOUNTS.

REMIT TO
1180 W. HASTINGS ST.
VANCOUVER B.C. V8E 1B4

LIC. NO. _____

LIC. NO. _____

SUB TOTAL	165.49	6
FEDERAL TAX	19.86	✓
SUB TOTAL	185.35	
PROVINCIAL TAX	12.97	✓
SHIPPING		
TOTAL	198.32	

BRITISH COLUMBIA'S ENGINEERING SUPPLY HOUSE
OFFERING A COMPLETE REPRODUCTION
AND SUPPLY SERVICE

9819

PLEASE REFER TO THIS NUMBER WHEN REMITTING

PLEASE PAY THIS AMOUNT

BETHLEHEM COPPER CORPORATION

DATE	INVOICE NO.	AMOUNT	DATE	INVOICE NO.	AMOUNT
1977					
May 13	April Drafting Acct.	\$1,524.00 =====			

BETHLEHEM COPPER CORPORATION

No 6873

SUITE 2100, GUINNESS TOWER, 1055 WEST HASTINGS STREET

VANCOUVER, B.C. V6E 2H8

May 13 19 77

PAY TO THE ORDER OF ALTAIR DRAFTING SERVICES / \$ 1,524.00 /

155 DOLLARS

BETHLEHEM COPPER CORPORATION

NON-NEGOTIABLE

PER _____

PER _____

TO THE
BANK OF MONTREAL
MAIN OFFICE - THREE BENTALL CENTRE
595 BARRARD STREET
VANCOUVER, B.C.
V7K 1L7

VOUCHERS PAYABLE

CHARGE	ACCOUNT No	DR	CR
	860-001	\$ 90.00	
	860-008	215.00	
	860-102	252.00	
	860-103	18.00	
	860-106	240.00	
	860-108	384.00	
	860-109	294.00	
	860-019	0.00	
	110-002		\$1,524.00

VOUCHER ENTERED

APPROVED FOR PAYMENT

BETHLEHEM COPPER CORPORATION

DATE	INVOICE NO	AMOUNT	DATE	INVOICE NO	AMOUNT
1977					
Jun. 14	May drafting acct.	\$1,260.00 ✓ *****			

BETHLEHEM COPPER CORPORATION

SUITE 2100, GUINNESS TOWER, 1055 WEST HASTINGS STREET

VANCOUVER, B.C. V6C 2H6

No 7025

June 14 19 77

PAY TO THE ORDER OF ALTAIR DRAFTING SERVICES LTD \$ 1,260.00

100 DOLLARS

BETHLEHEM COPPER CORPORATION

NON-NEGOTIABLE

PER _____

PER _____

TO THE
BANK OF MONTREAL
MAIN OFFICE - THREE BENTALL CENTRE
995 BURNARD STREET
VANCOUVER, B.C.
V7Z 1L7

VOUCHERS PAYABLE

CHARGE	AMOUNT	ACCOUNT NO.	DR	CR
860-106	\$192.00	860-004	\$ 35.00	
860-108	78.00	860-008	124.00	
860-109	342.00	860-010	8.00	
860-111	84.00	860-017	204.00	
860-112	36.00	860-028	144.00	
110-002				\$1,260.00

VOUCHER ENTERED

APPROVED FOR PAYMENT

1295

BETHLEHEM COPPER CORPORATION

DATE	INVOICE NO	AMOUNT	DATE	INVOICE NO	AMOUNT
1977 July 13	June printing and drafting.	\$ 1,962.98 *****			

BETHLEHEM COPPER CORPORATION

No 7182

SUITE 2100, GUINNESS TOWER, 1055 WEST HASTINGS STREET

VANCOUVER, B.C. V6E 2H8

July 13th, 1977

ALTAIR DRAFTING SERVICES LTD. /

\$ 1,962.98

PAY TO THE ORDER OF _____

DOLLARS

BETHLEHEM COPPER CORPORATION

NON-NEGOTIABLE

PER _____

PER _____

TO THE

BANK OF MONTREAL

MAIN OFFICE - THREE BENTALL CENTRE
595 BURNHAM STREET
VANCOUVER, B.C.
V7X 1L7

VOUCHERS PAYABLE

CHARGE	ACCOUNT NO.	DR	CR
860-101 \$ 120.73 ✓	860-001	\$ 17.03	
860-102 228.00 ✓	860-008	673.11	
860-106 5.86 ✓	860-009	2.60	
860-108 182.40 ✓	860-017	109.17	
	860-018	74.41	
	860-024	398.68	
	860-028	67.19	
	860-030	81.80	
	110-002		\$ 1,962.

VOUCHER ENTERED

APPROVED FOR PAYMENT

[Signature]

[Signature]

BETHLEHEM COPPER CORPORATION

DATE	INVOICE NO	AMOUNT	DATE	INVOICE NO	AMOUNT
1977 Aug. 4	July drafting acct.	\$1,596.00 ✓ =====			

BETHLEHEM COPPER CORPORATION

SUITE 2100, GUINNESS TOWER, 1055 WEST HASTINGS STREET

VANCOUVER, B.C. V6C 2N0

No 7279

August 4 19 77

ALTAIR DRAFTING SERVICES LTD

\$ 1,596.00

PAY TO THE ORDER OF _____

DOLLARS

BETHLEHEM COPPER CORPORATION

NON-NEGOTIABLE

PER _____

PER _____

TO THE
BANK OF MONTREAL
MAIN OFFICE - THREE BENTALL CENTRE
595 BURNARD STREET
VANCOUVER, B.C.
V7X 1L7

VOUCHERS PAYABLE

CHARGE	ACCOUNT No	DR	CR
	860-001 ✓	\$ 49.00 ✓	
	860-006 ✓	546.00 ✓	
	860-020 ✓	60.00 ✓	
	860-030 ✓	36.00 ✓	
	860-101 ✓	48.00 ✓	
	860-108 ✓	540.00 ✓	
	110-002 ✓		\$1,596.00

VOUCHER ENTERED _____

APPROVED PAYMENT
[Signature]

BETHLEHEM COPPER CORPORATION

DATE	INVOICE NO	AMOUNT	DATE	INVOICE NO	AMOUNT
1977					
Sep. 14	Drafting Acct. - Aug. '77	\$1,404.00 *****			

BETHLEHEM COPPER CORPORATION

SUITE 2100, GUINNESS TOWER, 1055 WEST HASTINGS STREET

VANCOUVER, B.C. V6C 2M8

No 7469

September 14 1977

ALTAIR DRAFTING SERVICES LTD

\$ 1,404.00

PAY TO THE ORDER OF

DOLLARS

BETHLEHEM COPPER CORPORATION

NON-NEGOTIABLE

PER _____

PER _____

TO THE

BANK OF MONTREAL

MAIN OFFICE - THREE BENTALL CENTRE
595 BURGARD STREET
VANCOUVER, B.C.
V7X 1L7

VOUCHERS PAYABLE

CHARGE	ACCOUNT No.	DR	CR
	860-001 ✓	\$ 48.00 ✓	
	860-005 ✓	80.00 ✓	
	860-008 ✓	926.00 ✓	
	860-018 ✓	12.00 ✓	
	860-030 ✓	12.00 ✓	
	860-106 ✓	12.00 ✓	
	110-002 ✓		\$1,404.00

VOUCHER ENTERED

APPROVED FOR PAYMENT

[Handwritten Signature]

BETHLEHEM COPPER CORPORATION

DATE	INVOICE NO	AMOUNT	DATE	INVOICE NO	AMOUNT
Oct 14/77	Altair drafting account for month of September	\$1824.00			

BETHLEHEM COPPER CORPORATION
SUITE 2100, GUINNESS TOWER, 1055 WEST HASTINGS STREET

No 7575

VANCOUVER, B.C. V6E 2H6

October 14 1977

PAY TO THE ORDER OF ALTAIR DRAFTING SERVICES LTD \$ 1,824.00

100 DOLLARS

BETHLEHEM COPPER CORPORATION

NON-NEGOTIABLE

PER _____

PER _____

TO THE
BANK OF MONTREAL
MAIN OFFICE - THREE BENTALL CENTRE
 595 BUNNARD STREET
 VANCOUVER, B.C.
 V7X 1L7

VOUCHERS PAYABLE

CHARGE	ACCOUNT No.	DR	CR
	860-005 ✓	\$498.00	
	860-008	300.00	
	860-009	156.00	
	860-018	330.00	
	860-020	288.00	
	860-023	180.00	
	860-105	72.00	
	110-002		\$1,824

VOUCHER ENTERED

APPROVED FOR PAYMENT

Handwritten signature

Handwritten signature

BETHLEHEM COPPER CORPORATION

DATE	INVOICE NO	AMOUNT	DATE	INVOICE NO	AMOUNT
Nov 14/77	Drafting account for month of October, 1977.	\$1,632.00			

BETHLEHEM COPPER CORPORATION

No 7735

SUITE 2100, GUINNESS TOWER, 1055 WEST HASTINGS STREET

VANCOUVER, B.C. V6E 2M0

November 14 1977

PAY TO THE ORDER OF ALTAIR DRAFTING SERVICES

\$ 1,632.00

DOLLARS

BETHLEHEM COPPER CORPORATION

NON-NEGOTIABLE

PER _____

PER _____

TO THE
BANK OF MONTREAL
MAIN OFFICE - THREE CENTRE
895 BURRARD STREET
VANCOUVER, B.C.
V7X 1L7

VOUCHERS PAYABLE

CHARGE		ACCOUNT No	DR	CR
	<u>DR.</u>			
860-030	\$ 78.00	860-001	\$ 60.00	
860-031	36.00	860-005	468.00	
860-109	144.00	860-007	360.00	
		860-016	336.00	
		860-009	24.00	
		860-018	90.00	
		860-020	12.00	
		860-023	14.00	
		110-002		\$1,632.

VOUCHER

APPROVED FOR PAYMENT

Handwritten signatures and initials

BETHLEHEM COPPER CORPORATION

DATE	INVOICE NO	AMOUNT	DATE	INVOICE NO	AMOUNT
1977					
May 13	April Printing Acct.	\$179.96 *****			

BETHLEHEM COPPER CORPORATION

No 6874

SUITE 2100, GUINNESS TOWER, 1055 WEST HASTINGS STREET

VANCOUVER, B.C. V6E 2H6

May 13 19 77

PAY TO THE ORDER OF _____

ALTAIR DRAFTING SERVICES LTD

\$ 179.96

DOLLARS
100

BETHLEHEM COPPER CORPORATION

NON-NEGOTIABLE

PER _____

PER _____

TO THE

BANK OF MONTREAL

MAIN OFFICE - THREE RENTAL CENTRE
555 BARRARD STREET
VANCOUVER, B.C.
V7X 1L7

VOUCHERS PAYABLE

CHARGE	ACCOUNT NO	DR	CR
	860-001	\$ 4.00	
	860-008	65.56	
	860-009	1.98	
	860-014	3.60	
	860-101	7.25	
	860-102	13.18	
	860-103	17.37	
	860-106	17.00	
	860-108	9.73	
VOUCHER ENTERED	110-002		\$179.96

APPROVED FOR PAYMENT

[Handwritten Signature]

BETHLEHEM COPPER CORPORATION

DATE	INVOICE NO	AMOUNT	DATE	INVOICE NO	AMOUNT
1977					
Jun. 14	May printing acct.	\$217.68 RECEIVED			

BETHLEHEM COPPER CORPORATION

No 7026

SUITE 2100, GUINNESS TOWER, 1055 WEST HASTINGS STREET

VANCOUVER, B.C. V6C 2H8

June 14 1977

PAY TO THE ORDER OF ALTAIR DRAFTING SERVICES LTD

\$ 217.68

100 DOLLARS

TO THE
BANK OF MONTREAL
MAIN OFFICE - THREE BENTALL CENTRE
595 BARRARD STREET
VANCOUVER, B.C.
V7X 1L7

BETHLEHEM COPPER CORPORATION

NON-NEGOTIABLE

PER _____

PER _____

VOUCHERS PAYABLE

CHARGE	ACCOUNT No.	DR	CR
	887-001	\$ 13.18	
	887-003	10.42	
	887-017	5.33	
	887-101	1.20	
	887-106	7.91	
	887-108	1.20	
	887-111	162.80	
	887-112	15.58	
	110-007		\$217.68

VOUCHER ENTERED

APPROVED FOR PAYMENT

11/29/77

BETHLEHEM COPPER CORPORATION

DATE	INVOICE No	AMOUNT	DATE	INVOICE No	AMOUNT
1977					
Aug. 4	July printing acct.	\$151.00 =====			

BETHLEHEM COPPER CORPORATION

SUITE 2100, GUINNESS TOWER, 1055 WEST HASTINGS STREET

VANCOUVER, B.C. V6C 2H8

No 7280

August 4 1977

PAY TO THE ORDER OF ALTAIR DRAFTING SERVICES LTD \$ 151.00

100 DOLLARS

BETHLEHEM COPPER CORPORATION

NON-NEGOTIABLE

PER _____

PER _____

TO THE
BANK OF MONTREAL
MAIN OFFICE - THREE HEMTALL CENTRE
595 BURNARD STREET
VANCOUVER, B.C.
V7X 1L7

VOUCHERS PAYABLE

CHARGE	ACCOUNT No	DR	CR
	860-008	\$ 65.91 ✓	
	860-014	2.40 ✓	
	860-024	23.97 ✓	
	860-030	15.58 ✓	
	860-106	3.00 ✓	
	860-108	35.35 ✓	
	860-112	4.79 ✓	
	110-002		\$151.00 ✓

VOUCHER ENTERED

APPROVED FOR PAYMENT

11/11/77
RWA

BETHLEHEM COPPER CORPORATION

DATE	INVOICE NO	AMOUNT	DATE	INVOICE NO	AMOUNT
1977					
Sep. 14	Printing Acct. - Aug. '77	\$113.99 *****			

BETHLEHEM COPPER CORPORATION

No 7468

SUITE 2100, GUINNESS TOWER, 1050 WEST HASTINGS STREET

VANCOUVER, B.C. V6E 2H3

September 14 1977

ALTAIR DRAFTING SERVICES LTD

\$ 119.99

PAY TO THE ORDER OF _____

100 DOLLARS

BETHLEHEM COPPER CORPORATION

NON-NEGOTIABLE

PER _____

PER _____

TO THE
BANK OF MONTREAL
MAIN OFFICE - THREE GINTALL CENTRE
595 BARRARD STREET
VANCOUVER, B.C.
V7X 1L3

VOUCHERS PAYABLE

CHARGE	ACCOUNT NO	DV	CR
	860-008	\$60.72	
	860-014	14.94	
	860-106	8.94	
	860-030	8.62	
	860-005	17.98	
	860-108	4.79	
	110-002		\$119.99

VOUCHER ENTERED

APPROVED FOR PAYMENT

[Handwritten Signature]

BETHLEHEM COPPER CORPORATION

DATE	INVOICE No	AMOUNT	DATE	INVOICE No	AMOUNT
Oct 14/77	Payment to Altair for month of September	\$281.86			

BETHLEHEM COPPER CORPORATION

No 7574

SUITE 2100, GUINNESS TOWLN, 1055 WEST HASTINGS STREET

VANCOUVER, B.C. V6P 2H8

October 14 1977

PAY TO THE ORDER OF ALTAIR DRAFTING SERVICES LTD

\$ 281.86

DOLLARS

BETHLEHEM COPPER CORPORATION

NON-NEGOTIABLE

PER _____

PER _____

TO THE
BANK OF MONTREAL
MAIN OFFICE - THREE BENTALL CENTRE
395 BURGARD STREET
VANCOUVER, B.C.
V7X 1L7

VOUCHERS PAYABLE

CHARGE	ACCOUNT No	DR	CR
	860-001	\$13.42	
	860-005	41.94	
	<u>860-008</u>	<u>45.53</u>	
	860-009	19.77	
	860-014	10.79	
	860-018	46.74	
	860-020	42.54	
	860-105	16.78	
	860-106	1.20	
	860-109	43.15	
VOUCHER ENTERED	FOR PAYMENT		
	210-002		\$281.86

OK

RMW 6/13

BETHLEHEM COPPER CORPORATION

DATE	INVOICE NO	AMOUNT	DATE	INVOICE NO	AMOUNT
Nov 14/77	Printing account for the month of October 1977.	\$412.61			

BETHLEHEM COPPER CORPORATION

No 7736

SUITE 2100, GUINNESS TOWER, 1055 WEST HASTINGS STREET

VANCOUVER, B.C. V6C 2M6

November 14 19 77

PAY TO THE ORDER OF ALTAIR DRAFTING SERVICES LTD.

\$ 412.61

100 DOLLAR

BETHLEHEM COPPER CORPORATION

NON-NEGOTIABLE

PER _____

PER _____

TO THE

BANK OF MONTREAL

MAIN OFFICE - THREE BENTALL CENTRE
595 BURNARD STREET
VANCOUVER, B.C.
V7X 1L7

VOUCHERS PAYABLE

CHARGE	ACCOUNT NO.	DR	CR
	860-001	\$ 2.88	
	860-005	119.24	
860-105	860-009	105.09	
860-109	860-009	65.91	
	860-018	42.54	
	860-020	9.22	
	860-023	1.88	
	860-031		
	110-002		

VOUCHER 1

APPROVED FOR PAYMENT

km

[Signature]

\$412.

BETHLEHEM COPPER CORPORATION LTD.

Expense Account Form

Week Ended May 8 '77 -?

Date	Place	Air	Bus	Mileage	Auto	Hotel	Meals	Tel.	Miscellaneous	Totals	REMARKS
2 Monday		\$	\$	\$	\$ /	\$75.60	\$22.85	\$13.70		\$ 107.25	
2 Tuesday					25		18.77		235	25.63	
✓ Wednesday							16.13			18.13	
Thursday							16.30			16.30	
Friday							8.20			8.20	
Saturday											
✓ Sunday											
Total						75.60	62.36	13.70	235	175.61	

Allocation:

Property

				905		902	1.2	872			
8				450		15796	1	2.35			
Total										175.61	

Balance due company from previous expense account 171.50

Advances from company for this period

Expenses for this period (above) 175.61

Balance -2.35

Signature [Signature]

Approved [Signature]

Approved [Signature]

BETHLEHEM COPPER CORPORATION LTD.

Expense Account Form

Week Ended Mar 15 1977

Place	Air	Bus	Mileage	Auto	Hotel	Meals	Tel.	Miscellaneous	Totals	REMARKS
	\$	\$	\$	\$	\$	\$	\$	\$	\$	
					50.00	14.25	10.00		74.25	
Day						16.00			16.00	
Day						12.00			12.00	
						7.00			7.00	
					50.00	57.25	10.00		117.25	

x x x

tion:

						902	923			
						1165	1100			

Balance due company from previous expense account

321.29

Advances from company for this period

Expenses for this period (above)

Balance

Walter J. ...

117.65
209.24

BETHLEHEM COPPER CORPORATION LTD.

Expense Account Form

Week Ended May 22/77

Place	Air	Bus	Mileage	Auto	Hotel	Meals	Tel.	Miscellaneous	Totals	REMARKS
	\$	\$	\$	\$	\$	\$	\$	\$	\$	
					63.25	17.15			80.35	
						17.44			17.44	
						17.20			17.20	
						6.75		3.00 2.00	8.75	
					63.25	55.49		7.00	120.69	
					✓	✓		✓	✓	

Ion:

						9.06				
						120.69				

Balance due company from previous expense account 2,042.21

Advances from company for this period

Expenses for this period (above)

P. Netherly

120.69
63.25

BETHLEHEM COPPER CORPORATION LTD.

Expense Account Form

Week Ended Monday 12/17

Day	Place	Air	Bus	Mileage	Auto	Hotel	Meals	Tel.	Miscellaneous	Totals	REMARKS
		\$	\$	\$	\$	\$	\$	\$	\$	\$	
Monday							12.49			12.49	
Tuesday							15.45			15.45	
Wednesday							15.25			15.25	
Thursday						50.45	7.90	13.45		68.75	
Friday											
Saturday											
Sunday											
Total						50.45	52.04	13.45		112.89	

Location:

Property											
							9.22	9.22			
							117.44	10.45			
Total											

Balance due company from previous expense account

Advances from company for this period

Expenses for this period (above)

Balance

28.5

112.89 ✓

410.66

BETHLEHEM COPPER CORPORATION LTD.

Expense Account Form

Week Ended Aug 12
Sund

Date	Place	Air	Bus	Mileage	Auto	Hotel	Meals	Tel.	Miscellaneous	Totals	REMARKS
Monday		\$	\$	\$	\$	\$	\$16.30	\$	\$11.76	\$ 28.06	
Tuesday							14.15			14.15	
Wednesday						33.70	7.60	27.05		68.35	
Thursday					9.05					9.05	
Friday											
Saturday											
Sunday											
Total					9.05	33.70	38.00	27.05	11.76	119.46	

/ / X X /

Allocation:

Property										
				905		902		923	908	
8				9.05		71.70		27.05	11.76	
Total										

Balance due company from previous expense account

2119.21

Advances from company for this period

Expenses for this period (above)

Balance

119.46 ✓
\$ 289.75 ✓
2119.21

BETHLEHEM COPPER CORPORATION LTD.

Expense Account Form

Week Ended 11/19/77

JUN 24 1977 REA

Date	Place	Air	Bus	Mileage	Auto	Hotel	Meals	Tel.	Miscellaneous	Totals	REMARKS
1 Monday		\$	\$	\$	\$2.25	\$	\$19.10	\$	\$2.21	\$23.56	# Perish
2 Tuesday							17.64			17.64	6.15 (Colling Mill)
3 Wednesday							16.70			16.70	for looking for...
4 Thursday						53.41	9.00	16.81		79.22	
5 Friday											
6 Saturday											
7 Sunday											
Total					2.25	53.41	62.44	16.81	2.21	124.12	

Allocation:

Property										
				9.85		9.82	9.23			872
				2.25		112.84	16.70			2.21
Total										

Balance due company from previous expense account

201.75

Advances from company for this period

Expenses for this period (above)

Balance

124.12

[Handwritten signature]

BETHLEHEM COPPER CORPORATION LTD.

Expense Account Form

Week Ended 6/26/77

JUN 24 1977 REA.

Date	Place	Air	Bus	Mileage	Auto	Hotel	Meals	Tel.	Miscellaneous	Totals	REMARKS
Monday		\$	\$	\$	\$	\$	\$ 17.30	\$	\$	\$ 17.30	
Tuesday							18.25			18.25	
Wednesday							16.95			16.95	
Thursday							18.70			18.70	
Friday						75.65	9.70	2.40		87.75	
Saturday											
Sunday											
Total						75.65	62.10	2.40		160.90	

Allocation:

Property											
						912			923		
2						15850			2.40		
Total										160.90	

Balance due company from previous expense account

158.65

Advances from company for this period

Expenses for this period (above)

Balance

160.90

REA

BETHLEHEM COPPER CORPORATION LTD.

Expense Account Form

Week Ended July 31

Date	Place	Air	Bus	Mileage	Auto	Hotel	Meals	Tel.	Miscellaneous	Totals	REMARKS
Monday		\$	\$	\$	\$	\$ 16.25	\$ 10.45	\$		\$ 27.25	
Tuesday						16.25	14.95	4.50		36.25	
Wednesday							13.90			13.90	
Thursday											
Friday											
Saturday											
Sunday											
Total						33.60	39.30	4.50		77.40	

Allocation:

Property

						902	923				
8-						72.90	4.50				
Total											

Balance due company from previous expense account

153.06

Advances from company for this period

Expenses for this period (above)

77.40

Balance

75.66

Signature

Approved

Approved

MOTELS AND RESTAURANTS TO SERVE YOU IN - CACHE CREEK - PRINCETON - KAMLOOPS - SMITHERS
 BLUE RIVER - CRANBROOK - WILLIAMS LAKE - PRINCE GEORGE - VERNON - McBRIDE
 KELOWNA - TERRACE - EDMONTON - REVELSTOKE - VANCOUVER



SANDMAN INNS

Telephone 736-7254

Bethelam Copper Corp.,
 2100 - 1055 West Hastings
 Vancouver B.C.
 V6E 2H8

DATE August 9 19 77

REMIT TO:
SANDMAN INNS LTD.
 STE. 201-1622 WEST 7th AVE.
 VANCOUVER, B.C. V6J 1S5

22/8/77 THIS INVOICE IS DUE UPON RECEIPT. TERMS - NET CASH

FOR ACCOMMODATION PROVIDED IN:	ROOM	TAX	TELEPHONE	MEALS	OTHER	TOTAL
CACHE CREEK B.C.						
CC28984 R. Nethery August 9	16.00	.80	12.50			✓ 29.30
CC28798 " August 2 - 8	112.00	5.60	22.02			✓ 139.62
						168.92

*008-902
 P.V.
 K*

*702-008
 110-502*

NO STATEMENTS WILL BE ISSUED
 PLEASE PAY FROM THIS INVOICE

INVOICE No 2540

BETHLEHEM COPPER CORPORATION LTD.

Expense Account Form

Week Ended Aug 14/77

Date	Place	Air	Bus	Mileage	Auto	Hotel	Meals	Tel.	Miscellaneous	Totals	REMARKS
Monday		\$	\$	\$	\$	\$	\$ 15.00	\$	Tape \$6.32	\$	
Tuesday							17.65		Lock 6.27		
Wednesday							13.00				
Thursday											
Friday											
Saturday											
Sunday											
Total							42.65		10.59	53.24	
Allocation:							↑		↓		
Property											
							9.02				
	8										
Total											

Balance due company from previous expense account 483.06

Advances from company for this period

Expenses for this period (above)

53.24

Balance

Signature

K. J. H. Day

Approved

Approved

[Signature]

BETHLEHEM COPPER CORPORATION LTD.

Expense Account Form

Week Ended May 22

Date	Place	Air	Bus	Mileage	Auto	Hotel	Meals	Tel.	Miscellaneous	Totals	REMARKS
Monday 16	Kearney	\$	\$	\$	\$	\$---	\$5.55	\$		\$ 5.55	
Tuesday 17	W. Wood						6.00			9.60	EAC J.R.
Wednesday 18	Colley					15.75	6.45			22.20	
Thursday 19	"					15.75	3.90			24.70	
Friday 20	Van						3.45			6.43	
Saturday 21	"						2.25				
Sunday 22	"					Tips	5.55			5.55	
Total						31.50	42.53			74.03	

Allocation:

Property											
	9	17									
	902	2403	50.00								
Total	2403	50.00								74.03	

Balance due company from previous expense account \$372.39
 Advances from company for this period 74.03
 Expenses for this period (above) 74.03
 Balance \$ 298.36

Signature John Ballamy

Approved [Signature]

BETHLEHEM COPPER CORPORATION LTD.

Expense Account Form

Week Ended May 29 77

Date	Place	Air	Bus	Mileage	Auto	Hotel	Meals	Tel.	Miscellaneous	Totals	REMARKS
Monday 22	Crook	\$	\$	\$	\$	\$15.75	3.75	\$		\$21.79	
Tuesday 24	Crook					15.75	2.75			26.25	
Wednesday 25	V. Ho.					15.75	3.40			25.25	
Thursday 26	V. Ho.					15.75	4.75		chinson gas 1.25	25.15	
Friday 27	"					15.75	3.75		oil car 4.50	23.24	
Saturday 28	"					15.75	4.25		transp 3.92	22.32	
Sunday 29	"					15.75	3.70		chinson 4.87	30.32	
Total						110.25	61.44		19.63	189.32	

Allocation:

Property										
	\$	17								
9122	150.00	132.32								159.32
Total										159.32

Balance due company from previous expense account \$298.36

Advances from company for this period

Expenses for this period (above)

Balance

\$189.32
\$109.04

Signature

[Signature]

Approved

[Signature]

BETHLEHEM COPPER CORPORATION LTD.

Expense Account Form

Week Ended June 12/1977

Date	Place	Air	Bus	Mileage	Auto	Hotel	Meals	Tel.	Miscellaneous	Totals	REMARKS
Monday 6	Coche	\$	\$	\$	\$	15.75 ⁶	3.40 ¹⁰ 3.40 ¹⁰	\$	\$	22.15	
Tuesday 7	Crook					15.75 ⁶	2.75 ⁻ 2.75 ⁻			27.00	
Wednesday 8	"					15.75 ⁶	3.50 ¹⁰ 2.00 ¹⁰			25.85	
Thursday 9	-Van					15.75 ⁶	3.75 ⁻ 2.40 ⁻			21.90	
Friday 10	"										
Saturday 11											
Sunday 12									tips @ 15% 5.10	5.10	
Total						63.00	33.90		5.10	102.00	

Allocation:

PROPERTY

Total		46.00	62.00							102.00	

Balance due company from previous expense account - 448.86

Advances from company for this period

Expenses for this period (above)

Balance

\$ 102.00
 - 448.86
\$ 150.86

Signature

John Ballantyne

BETHLEHEM COPPER CORPORATION LTD.

Expense Account Form

Week Ended June 19

JUN 19 1944
REN

Date	Place	Air	Bus	Mileage	Auto	Hotel	Meals	Tel.	Miscellaneous	Totals	REMARKS
Monday		\$	\$	\$	\$	\$	\$	\$	\$	\$	
Tuesday											
Wednesday											
Thursday					\$6.50					\$6.50	Tire Repair
Friday											
Saturday											
Sunday											
Total					\$6.50					6.50	

Allocation:

Property											
				905							
	100%			6.50							
Total				6.50							

Balance due company from previous expense account
 Advances from company for this period
 Expenses for this period (above)
Balance

6.50

Bit
 Please send report to sample copy
 - illustrating how the form should
 be completed.
 (particularly the section)

Signature

B. K. ...

Approved

C. T. ...

Approved

[Signature]

BETHLEHEM COPPER CORPORATION LTD.

Expense Account Form

Week Ended April 25th 1958

MA 17

Date	Place	Air	Bus	Mileage	Auto	Hotel	Meals	Tel.	Miscellaneous	Totals	REMARKS
Monday		\$	\$	\$	\$	\$	\$	\$	\$	\$ 7.65	
Tuesday							2.50			2.50	Groceries for lunch for
Wednesday							8.70			8.70	
Thursday											
Friday											
Saturday											
Sunday										15.00	Insurance for car
Total										68.94	

Allocation:

Property	Air	Bus	Mileage	Auto	Hotel	Meals	Tel.	Miscellaneous	Totals
								(702)	68.94
Total									

Balance due company from previous expense account

Advances from company for this period

Expenses for this period (above)

Balance

200.00
68.94
131.06

Signature Stephen O'Neill

Approved R. F. Anderson

Approved RK

GUEST REGISTRATION

REGARDLESS OF CHARGE INSTRUCTIONS, THE UNDERSIGNED GUEST ACKNOWLEDGES THE BELOW AS A PERSONAL INDEBTEDNESS.

NAME STEPHEN O'NEILL
PLEASE PRINT

COMPANY BETHLEHEM COPPER

ADDRESS 1055 W. Hastings

CITY Verm.

CREDIT CARD # _____ TYPE _____

SIGNATURE Stephen O'Neill

RATE \$ <u>14-</u>	ROOM NO. <u>13</u>	NO. IN PARTY <u>1</u>
DATE IN <u>2/5/77</u>	DATE OUT <u>5/5/77</u>	CLERK INITIAL <u>K.B.</u>
MAKE OF CAR _____	CAR LICENCE NO. _____	PROV. - STATE <u>B.C.</u>

PAYMENT RECEIVED BY _____

NOTICE TO GUESTS
 THIS PROPERTY IS PRIVATELY OWNED AND MANAGEMENT RESERVES THE RIGHT TO REFUSE SERVICE TO ANYONE. WE WILL NOT BE RESPONSIBLE FOR ACCIDENTS, OR INJURY TO GUESTS OR FOR LOSS OF MONEY, JEWELRY OR VALUABLES OF ANY KIND.
 11:00 A.M. IS CHECKING OUT TIME. GUESTS STAYING OVER PLEASE NOTIFY OFFICE. THE MANAGEMENT RESERVES THE RIGHT TO ASSIGN AND REASSIGN THE GUEST TO SUCH ACCOMMODATION AS THE MANAGEMENT SEES FIT. WE OPERATE UNDER THE INNKEEPER'S ACT.

C. Cook
 1977
BONAPARTE MOTEL

INVOICE THIS STATE ONLY ITEMIZED ACCOUNT RENDERED	DAYS OCCUPIED	
	SUNDAY	
	MONDAY	X 14 ✓
	TUESDAY	X 14 ✓
	WEDNESDAY	X 14 ✓
	THURSDAY	
	FRIDAY	
	SATURDAY	
	TOTALS	42 ✓
	5% TAX	2 10
AMOUNT RECEIVED ON ACCOUNT		
TOTAL	44 10	

STOCK FORMS 1006-J MOTEL

THANK YOU FOR YOUR PATRONAGE.

E. & O. E.

BETHLEHEM COPPER CORPORATION LTD.

Expense Account Form

Week Ended May 30 22

MAY 31 1977

Date	Place	Air	Bus	Mileage	Auto	Hotel	Meals	Tel.	Groceries Miscellaneous	Totals	REMARKS
Monday		\$	\$	\$	\$	\$	\$ 2.50	\$	Groceries \$2.49	\$ 4.99	
Tuesday									Bakery 4.20	4.20	
Wednesday											
Thursday									Groceries 2.50	2.50	
Friday											
Saturday											
Sunday										34.28	
Total										34.28	

Allocation:

Property

									(902)	34.28	
Total											

Balance due company from previous expense account 77.03
 Advances from company for this period
 Expenses for this period (above) 34.28
32.75
44.28 net.

Signature J O'Neill

Approved R E Newman

Approved R E Newman

BETHLEHEM COPPER CORPORATION LTD.

Expense Account Form

Week Ended May 30 22

MAY 31 1977

Date	Place	Air	Bus	Mileage	Auto	Hotel	Meals	Tel.	Expenses		Totals	REMARKS
									Groceries	Miscellaneous		
Monday		\$	\$	\$	\$	\$	\$2.50	\$	Groceries	\$2.49	\$ 4.99	
Tuesday									Bakery	4.20	4.20	
Wednesday												
Thursday									Groceries	2.50	2.50	
Friday												
Saturday												
Sunday											34.28	
Total											34.28	

Allocation:

Property											
	108								(902)		34.28
Total											

Balance due company from previous expense account 17.03
 Advances from company for this period
 Expenses for this period (above) 34.28
 Balance 32.75
42.75 net.

Signature J O'Neill
 Approved R C Indian

Approved R K

BETHLEHEM COPPER CORPORATION LTD.

Expense Account Form

Week Ended June 12 / 76

JOHN J. ... REP.

Place	Air	Bus	Mileage	Auto	Hotel	Meals	Tel.	Miscellaneous	Totals	REMARKS
W	\$	\$	\$	\$	\$	\$	\$	Groceries \$9.90	\$ 9.90	
Tu								Groceries 4.68	4.68	
W										
Th										
F										
S										
T										
									79.43	

Notes:

Balance due company from previous expense account
 Advances from company for this period
 Expenses for this period (above)

-20.84
 200.00
279.93
 149.63

008-802
 REP.

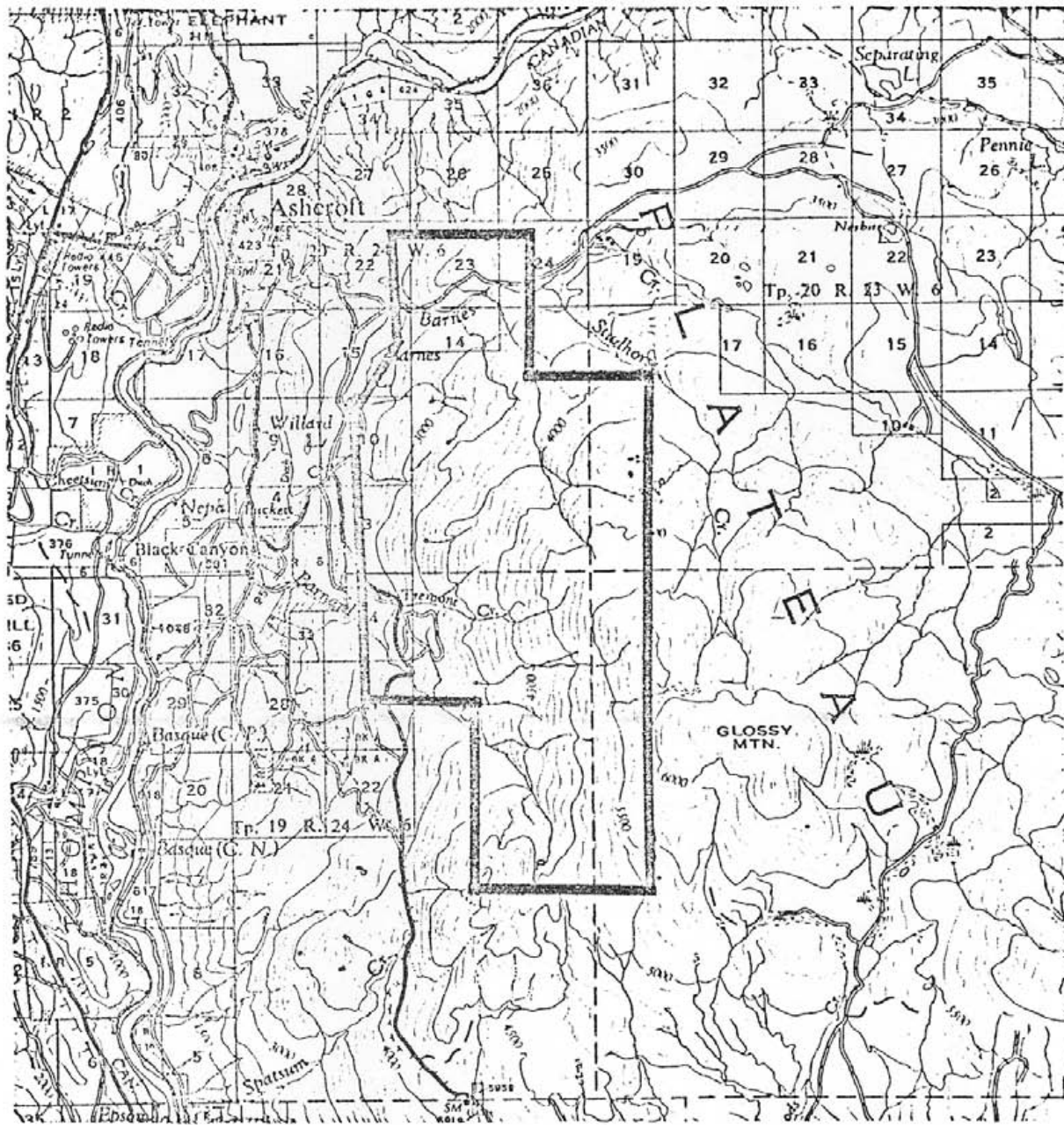
SECTION C

RECONNAISSANCE
INDUCED POLARIZATION SURVEY

STUD MINERAL
CLAIMS

92 I/6 & 11

SURVEY PROCEDURES



STUD CLAIMS

SURVEY AREA

SURVEY AREA

The STUD mineral claims are located some 2 miles southeast of Ashcroft, B.C., N.T.S. 92 I/6 & 11. The area covered by the survey is shown on the enclosed map. The program was initiated April 15, 1977 and terminated June 29, 1977. Survey coverage consisted

of: Reconnaissance I.P. - 153 km
 Reconnaissance Magnetometer - 155 km

SURVEY PROCEDURE

The area was assigned a regional grid system by Bethlehem Copper Corporation for survey control. Control baselines were surveyed in as the project progressed to maintain as accurately as possible the regional grid, topographic control and claim post relationships.

Regional lines were surveyed in an E-W direction every 250 m and numbered at 100 m intervals. Near the completion of the survey, the line spacing was increased to 500 m. Readings were taken along the lines every 100 m with a fluxgate magnetometer and a pulse induced polarization system.

SURVEY SPECIFICATIONS

Magnetometer Survey

A main base station of 700 gammas was instituted near the northern tip of Barnes Lake. Sub base stations were looped in from the main base station. Due to the reconnaissance nature of the survey and the fact that the sun is at its 11 year sunspot minimum, a system of progressive base stations looping was used which carried the sub base stations forward as the survey progressed. A Scintrex MF-1 magnetometer was used for the survey. Base station readings were made three times daily.

Induced Polarization Survey

A time domain Huntco MK III receiver and a LOPO M-3 transmitter were used for the survey. The data was obtained using the Wenner array with an "a" spacing and traverse interval of 100 meters.

The data recorded in the field consists of careful measurements of the current (I) in amperes flowing through electrodes C_1 and C_2 , the primary voltage (V_p) appearing between electrodes P_1 and P_2 during the "current on" part of the cycle, and the secondary voltage ratios M_1 , M_2 , M_3 and M_4 appearing between electrodes P_1 and P_2 during the "current off" part of the cycle.

The apparent chargeability (M') in milliseconds, is calculated by $T_p (M_1 \neq 2M_2 \neq 4M_3 \neq 8M_4) = M'$, where T_p is the basic integrating time in tenths of seconds. M_1 , M_2 , M_3 and M_4 are the chargeability effects at various times on the voltage decay curve during pulse off time, measured as a percentage of the primary voltage V_p recorded during the "current on" time. By the use of these factors, one can gain an estimate of the decay curve in terms of chargeability for the given time T_p . This gives a quantitative value to the data measured.

A cycle time of 4 seconds was used with a duty ratio of 2.2 - 1, $T_p = 20$ ms, and $T_d = 15$ ms.

DATA PRESENTATION

The data obtained is presented on three plans with a north and south sheet each; chargeability (cv) milliseconds, apparent resistivity ohm-meters and vertical magnetic intensity gammas.

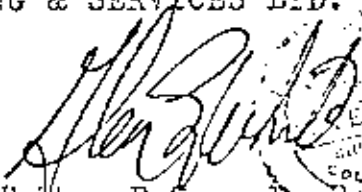
The induced polarization data is also presented as a computer printout of the line, station, current, voltage and the four M factors $M_1 - M_4$. The next 10 columns are computer generated ratios of the M values and cv which can be used to study anomalous responses. The remaining two columns are cv, chargeability in milliseconds and apparent resistivity in ohm-meters.


SUMMARY

The vertical magnetic intensity and apparent resistivity data showed a number of pronounced linears which reflect regional structural features and lithology trends.

The chargeability data shows a large anomaly which reached a high of some 23 milliseconds and trends in a northeast-southwest direction. This anomaly likely contains local concentrations of 10 - 15% chargeable materials. A second chargeability high was detected on line 170N - 70E which forms part of a long anomaly which also trends in a northeast-southwest direction. The smaller chargeability feature northeast of Barnes Lake is in an area of agglomerate and meta-argillite flanked by hybrid granitic rocks to the east.

Respectfully submitted,
 GLEN E. WHITE GEOPHYSICAL
 CONSULTING & SERVICES LTD.


 Glen E. White, B.Sc., P. ENG.
 Consulting Geophysicist



RECONNAISSANCE IP DATA

STUD CLAIMS

GLEN E. WHITE GEOPHYSICAL CONSULTING AND SERVICES LTD.

LINE	STATION	I	V	M1	M2	M3	M4	2/1	3/1	4/1	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
λ = 1 Δ = 100. T _P = 20. T _D = 15.																			
192+5N	123+5E	50.	53.	0.9	0.5	0.4	0.4	55.6	44.4	44.4	80.0	80.0	100.0	67.	37.	30.	30.	1.3	666.
192+5N	123+5E	50.	53.	1.2	0.6	0.4	0.4	50.0	33.3	33.3	66.7	66.7	100.0	83.	42.	28.	28.	1.4	666.
192+5N	121+5E	50.	106.	0.6	0.1	0.3	0.4	16.7	50.0	66.7	400.0	300.0	133.3	58.	10.	29.	38.	1.0	1331.
192+5N	120+5E	50.	58.	0.7	0.3	0.3	0.4	42.9	42.9	57.1	133.3	100.0	133.3	61.	26.	26.	35.	1.1	728.
192+5N	119+5E	50.	111.	1.1	0.5	0.5	0.6	45.5	45.5	54.5	120.0	100.0	120.0	62.	28.	28.	34.	1.8	1394.
192+5N	118+5E	50.	116.	0.4	0.0	0.0	0.2	0.0	0.0	50.0	0.0	0.0	0.0	100.	0.	0.	50.	0.4	1457.
192+5N	117+5E	50.	80.	1.3	0.6	0.4	0.5	46.2	46.2	38.5	83.3	100.0	83.3	73.	34.	34.	28.	1.8	1005.
192+5N	116+5E	50.	122.	0.5	0.2	0.4	0.5	40.0	80.0	109.0	250.0	200.0	125.0	38.	15.	31.	38.	1.3	1512.
192+5N	115+5E	50.	96.	0.0	-0.2	-0.1	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.	125.	63.	0.	-0.2	1206.
192+5N	114+5E	50.	96.	1.4	0.7	0.6	0.6	50.0	42.9	42.9	85.7	85.7	100.0	70.	35.	30.	30.	2.0	1206.
192+5N	113+5E	50.	92.	1.0	0.5	0.5	0.6	50.0	50.0	60.0	120.0	100.0	120.0	57.	28.	28.	34.	1.8	1156.
192+5N	112+5E	50.	49.	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	63.	0.2	578.
192+5N	111+5E	50.	67.	-1.1	-1.2	-0.7	-0.3	109.1	63.6	27.3	25.0	58.3	42.9	63.	69.	40.	17.	-1.7	842.
192+5N	110+5E	50.	54.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	678.
192+5N	109+5E	50.	59.	0.6	0.2	0.1	0.2	31.3	16.7	33.3	100.0	50.0	200.0	100.	33.	17.	33.	0.6	741.
192+5N	108+5E	50.	61.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	766.
192+5N	107+5E	50.	42.	-0.8	-1.0	-0.7	-0.3	125.0	87.5	37.5	30.0	70.0	47.9	50.	63.	44.	19.	-1.6	528.
192+5N	106+5E	50.	42.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	528.
192+5N	105+5E	50.	49.	0.3	0.0	0.0	0.1	0.0	0.0	33.3	0.0	0.0	0.0	136.	0.	0.	45.	0.2	615.
192+5N	104+5E	50.	47.	0.7	0.2	0.3	0.3	28.6	42.9	42.9	150.0	150.0	100.0	74.	21.	32.	32.	0.9	590.
192+5N	103+5E	50.	52.	0.8	0.4	0.4	0.4	50.0	50.0	50.0	100.0	100.0	100.0	63.	31.	31.	31.	1.3	653.
192+5N	102+5E	50.	53.	1.6	0.8	0.6	0.6	57.1	47.9	42.5	75.0	75.0	100.0	69.	39.	29.	29.	2.0	666.
192+5N	101+5E	50.	55.	1.0	0.6	0.5	0.5	60.0	50.0	50.0	83.3	83.3	100.0	61.	37.	30.	30.	1.6	691.
195+0N	102+5E	50.	63.	1.8	1.0	0.7	0.5	55.6	38.9	27.8	50.0	70.0	71.4	85.	47.	33.	24.	2.1	791.
195+0N	103+5E	50.	65.	0.7	0.3	0.3	0.3	42.9	42.9	42.9	100.0	100.0	100.0	71.	31.	31.	31.	1.0	816.
195+0N	104+5E	50.	69.	1.6	0.9	0.7	0.6	56.2	43.7	37.5	66.7	77.8	85.7	73.	41.	32.	27.	2.2	867.
195+0N	105+5E	50.	63.	0.8	0.4	0.3	0.3	50.0	37.5	37.5	75.0	75.0	100.0	77.	38.	29.	29.	1.0	791.
195+0N	106+5E	50.	60.	1.3	0.8	0.6	0.5	61.5	46.2	33.5	62.5	75.0	83.3	70.	43.	32.	27.	1.9	754.
195+0N	107+5E	50.	40.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.	0.	0.	0.	0.0	502.
195+0N	108+5E	50.	82.	0.5	0.1	0.2	0.3	20.0	40.0	60.0	300.0	200.0	150.0	64.	13.	26.	38.	0.8	1030.
195+0N	109+5E	50.	62.	1.1	0.7	0.5	0.5	63.6	45.5	45.5	71.4	71.4	100.0	65.	41.	29.	29.	1.7	779.
195+0N	110+5E	50.	73.	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	200.0	0.	0.	25.	50.	0.4	917.
195+0N	111+5E	50.	96.	1.4	0.8	0.7	0.6	57.1	50.0	42.9	75.0	87.5	85.7	66.	38.	33.	28.	2.1	1206.
195+0N	112+5E	50.	104.	1.1	0.5	0.4	0.4	45.5	36.4	36.4	80.0	80.0	100.0	80.	36.	29.	29.	1.4	1306.
195+0N	113+5E	50.	86.	0.9	0.4	0.4	0.4	44.4	44.4	44.4	100.0	100.0	100.0	69.	31.	31.	31.	1.3	1030.
195+0N	114+5E	50.	126.	1.1	0.6	0.6	0.6	54.5	54.5	54.5	100.0	100.0	100.0	58.	32.	32.	32.	1.9	1583.
195+0N	115+5E	50.	96.	1.5	0.9	0.7	0.6	60.0	46.7	40.0	66.7	77.8	85.7	69.	41.	32.	28.	2.2	1206.
195+0N	116+5E	50.	99.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.	0.	0.	0.	0.0	1243.
195+0N	117+5E	50.	125.	0.8	0.3	0.3	0.4	37.5	37.5	50.0	133.3	100.0	133.3	69.	26.	26.	34.	1.2	1510.
195+0N	118+5E	50.	102.	0.6	0.3	0.3	0.4	50.0	50.0	66.7	133.3	100.0	133.3	54.	27.	27.	36.	1.1	1281.
195+0N	119+5E	50.	93.	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	63.	0.5	1168.
195+0N	120+5E	50.	70.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	879.
195+0N	121+5E	50.	68.	0.5	0.1	0.1	0.2	20.0	20.0	40.0	200.0	100.0	200.0	93.	19.	19.	37.	0.5	854.
195+0N	122+5E	50.	55.	0.1	0.0	0.1	0.3	0.0	100.0	100.0	0.0	0.0	300.0	17.	0.	17.	52.	0.6	691.
195+0N	123+5E	50.	40.	-0.4	-0.8	-0.9	-0.2	200.0	225.0	50.0	25.0	112.5	22.2	28.	56.	63.	14.	-1.4	502.
195+0N	124+5E	50.	42.	0.6	0.7	0.7	0.6	116.7	116.7	100.0	85.7	100.0	85.7	31.	36.	36.	31.	1.9	928.
195+0N	80+5E	50.	150.	2.4	1.7	1.3	1.1	65.4	50.0	42.3	64.7	76.5	84.6	65.	43.	33.	28.	4.0	1384.
195+0N	81+5E	20.	92.	2.4	1.6	1.3	1.0	66.7	54.2	41.7	62.5	61.2	76.9	64.	43.	35.	27.	3.8	2889.
195+0N	82+5E	20.	84.	2.7	1.8	1.3	1.1	66.7	48.1	40.7	61.1	72.2	84.6	67.	44.	32.	27.	4.1	2763.
195+0N	83+5E	20.	80.	2.7	1.9	1.5	1.3	70.4	55.6	43.1	63.4	78.9	86.7	59.	41.	33.	28.	4.6	2512.
195+0N	84+5E	20.	93.	2.7	1.8	1.3	1.1	60.7	46.1	40.7	61.1	72.2	84.6	67.	44.	32.	27.	4.1	2920.
195+0N	85+5E	20.	92.	2.8	1.8	1.3	1.0	64.3	44.4	35.7	55.6	72.2	76.9	71.	46.	33.	26.	3.9	2829.
195+0N	86+5E	25.	130.	3.0	2.0	1.5	1.2	66.7	50.0	40.0	60.0	75.0	80.0	66.	44.	33.	27.	4.5	3266.
195+0N	87+5E	10.	76.	2.7	1.7	1.4	1.1	63.0	51.9	40.7	64.7	82.4	78.6	66.	41.	34.	27.	4.1	4773.

LINE	STATION	T	V	M1	M2	M3	M4	Z/1	Z/1	4/1	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
195+0N	88+5E	30.	26.	0.8	0.4	0.3	0.3	50.0	37.5	37.5	75.0	75.0	100.0	77.	38.	29.	29.	1.0	544.
195+0N	89+5E	30.	23.	1.5	0.8	0.6	0.4	53.3	40.0	26.7	50.0	75.0	66.7	86.	46.	34.	23.	1.7	481.
195+0N	90+5E	30.	36.	1.5	0.6	0.4	0.3	40.0	26.7	20.0	50.0	66.7	75.0	112.	45.	30.	27.	1.3	754.
195+0N	91+5E	30.	37.	1.8	0.9	0.6	0.5	50.0	33.3	27.8	55.6	66.7	83.3	90.	45.	30.	25.	2.0	775.
195+0N	92+5E	30.	24.	1.3	0.7	0.5	0.3	53.8	38.5	23.1	42.9	71.4	60.0	92.	49.	35.	21.	1.4	502.
195+0N	93+5E	30.	97.	2.0	1.2	0.5	0.7	60.0	45.0	35.0	58.3	75.0	77.8	74.	44.	33.	26.	2.7	2031.
195+0N	94+5E	30.	30.	1.7	1.0	0.7	0.6	58.8	41.2	25.3	60.0	70.0	85.7	75.	44.	31.	27.	2.3	628.
195+0N	95+5E	30.	118.	2.3	1.5	1.2	0.9	65.2	52.2	39.1	60.0	80.0	75.0	66.	43.	35.	26.	3.5	2470.
195+0N	96+5E	30.	49.	1.8	1.1	0.9	0.6	61.1	50.0	23.3	54.5	81.8	66.7	73.	44.	36.	24.	2.5	837.
195+0N	97+5E	30.	173.	1.7	1.1	0.9	0.9	64.7	52.9	52.9	81.8	81.8	100.0	58.	37.	31.	31.	2.9	2575.
195+0N	98+5E	30.	57.	0.5	0.2	0.2	0.4	40.0	40.0	80.0	200.0	100.0	200.0	51.	20.	20.	41.	1.0	1193.
195+0N	99+5E	30.	106.	2.1	1.3	1.0	0.8	61.9	47.8	24.1	61.5	75.9	80.0	70.	43.	33.	26.	3.0	2719.
197+5N	104+5E	30.	35.	1.1	0.8	0.7	0.6	72.7	63.6	54.5	75.0	87.5	85.7	53.	39.	34.	25.	2.1	733.
197+5N	105+5E	30.	35.	1.0	0.7	0.7	0.6	70.0	70.0	60.0	85.7	100.0	85.7	50.	35.	35.	30.	2.0	733.
197+5N	106+5E	30.	70.	1.7	1.0	0.8	0.7	56.8	47.1	41.2	70.0	80.0	87.5	68.	40.	32.	28.	2.5	1465.
197+5N	107+5E	30.	21.	1.3	0.7	0.5	0.4	53.0	38.5	20.8	57.1	71.4	80.0	82.	44.	32.	25.	1.6	440.
197+5N	108+5E	30.	24.	1.6	0.9	0.6	0.7	56.2	50.0	43.7	77.8	88.9	87.5	66.	37.	33.	29.	2.4	502.
197+5N	109+5E	30.	20.	1.3	0.8	0.5	0.4	61.5	38.5	35.8	50.0	62.5	80.0	80.	49.	31.	25.	1.6	419.
197+5N	110+5E	30.	54.	1.4	0.7	0.5	0.4	50.0	35.7	28.6	57.1	71.4	80.0	88.	44.	31.	25.	1.6	424.
197+5N	111+5E	100.	164.	1.8	1.0	0.8	0.7	55.6	44.4	29.9	70.0	80.0	87.5	71.	43.	32.	28.	2.5	1070.
197+5N	112+5E	70.	111.	1.7	1.0	0.8	0.7	58.9	47.1	41.2	70.0	80.0	87.5	68.	40.	32.	28.	2.5	956.
197+5N	113+5E	70.	64.	1.5	0.8	0.5	0.4	53.3	33.3	26.7	50.0	62.5	80.0	90.	48.	30.	24.	1.7	574.
197+5N	114+5E	50.	112.	1.7	0.9	0.8	0.6	52.9	47.1	25.3	66.7	88.9	75.0	74.	39.	35.	26.	2.3	1407.
197+5N	115+5E	50.	83.	1.9	1.1	0.7	0.6	57.9	36.8	21.5	54.5	63.6	85.7	81.	47.	30.	26.	2.3	1042.
197+5N	116+5E	50.	108.	1.9	1.0	0.7	0.6	52.4	36.8	21.6	60.0	70.0	85.7	83.	42.	30.	26.	2.3	1356.
197+5N	117+5E	50.	104.	1.4	0.9	0.6	0.5	64.3	42.9	25.7	55.6	66.7	83.3	73.	47.	31.	26.	1.9	1306.
197+5N	118+5E	50.	73.	1.6	0.8	0.5	0.4	50.0	31.2	25.0	50.0	62.5	80.0	95.	48.	30.	24.	1.7	917.
197+5N	119+5E	40.	68.	1.7	1.0	0.7	0.6	52.3	41.2	25.3	60.0	70.0	85.7	75.	44.	31.	27.	2.3	854.
197+5N	120+5E	55.	51.	1.5	0.9	0.6	0.5	60.0	40.0	23.3	55.6	66.7	83.3	77.	46.	31.	26.	1.9	712.
197+5N	121+5E	55.	116.	2.3	1.4	1.1	0.8	60.9	47.8	24.8	57.1	78.6	72.7	72.	44.	35.	25.	3.2	1325.
197+5N	122+5E	30.	69.	2.2	1.6	1.1	0.9	72.7	50.0	40.9	56.2	64.8	81.8	65.	47.	37.	26.	3.4	1421.
197+5N	123+5E	35.	100.	2.5	1.6	1.1	1.0	64.0	52.0	40.0	62.5	81.2	76.9	66.	42.	34.	26.	3.0	1754.
197+5N	124+5E	35.	104.	2.6	1.7	1.2	1.0	65.4	50.0	28.5	58.8	76.5	76.9	68.	44.	34.	26.	3.0	1866.
197+5N	125+5E	35.	95.	2.4	1.5	1.2	1.0	67.5	50.0	41.7	66.7	80.0	83.3	66.	41.	33.	27.	3.6	1705.
197+5N	126+5E	35.	88.	2.5	2.0	1.3	1.0	60.0	52.0	40.0	50.0	65.0	76.9	63.	51.	33.	25.	3.9	1579.
197+5N	127+5E	35.	30.	1.9	1.1	0.8	0.7	57.9	42.1	26.8	63.6	72.7	87.5	74.	43.	31.	27.	2.6	538.
197+5N	128+5E	35.	36.	1.9	1.1	0.8	0.7	57.9	42.1	26.8	63.6	72.7	87.5	74.	43.	31.	27.	2.6	646.
200+0N	107+5E	80.	66.	1.4	0.8	0.6	0.5	57.1	42.9	25.7	62.5	75.0	83.3	74.	43.	32.	27.	1.9	518.
200+0N	108+5E	120.	102.	0.6	0.1	0.1	0.2	16.7	16.7	33.3	200.0	100.0	200.0	107.	18.	18.	36.	0.6	534.
200+0N	109+5E	80.	117.	1.2	0.5	0.5	0.4	41.7	41.7	23.3	50.0	100.0	80.0	81.	34.	34.	27.	1.5	918.
200+0N	110+5E	80.	78.	1.4	0.7	0.5	0.4	50.0	35.7	23.6	57.1	71.4	80.0	88.	44.	31.	25.	1.6	612.
200+0N	111+5E	80.	95.	1.0	0.5	0.4	0.4	50.0	40.0	40.0	80.0	80.0	100.0	74.	37.	29.	29.	1.4	746.
200+0N	112+5E	80.	94.	1.6	0.9	0.7	0.6	56.2	43.7	27.5	66.7	77.8	85.7	73.	41.	32.	27.	2.2	739.
200+0N	113+5E	80.	94.	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	63.	0.2	738.
200+0N	114+5E	80.	53.	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.	0.	0.	0.	0.1	416.
200+0N	115+5E	80.	201.	1.7	1.0	0.9	0.8	58.8	52.9	47.1	80.0	90.0	88.9	62.	36.	33.	29.	2.7	1578.
200+0N	116+5E	80.	100.	0.7	0.2	0.2	0.2	28.6	28.6	28.6	100.0	100.0	100.0	100.	29.	29.	29.	0.7	785.
200+0N	117+5E	80.	135.	1.5	0.7	0.6	0.5	46.7	40.0	33.3	71.4	85.7	83.3	81.	38.	32.	27.	1.9	1060.
200+0N	118+5E	80.	87.	1.2	0.6	0.4	0.3	50.0	33.3	25.0	50.0	66.7	75.0	94.	47.	31.	23.	1.3	683.
200+0N	119+5E	80.	135.	1.5	0.8	0.7	0.5	53.3	46.7	33.3	62.5	87.5	71.4	76.	40.	35.	25.	2.0	1060.
200+0N	120+5E	80.	89.	1.4	0.8	0.5	0.5	57.1	35.7	25.7	62.5	67.5	100.0	78.	44.	28.	28.	1.8	699.
200+0N	121+5E	80.	92.	1.6	0.8	0.6	0.5	50.0	37.5	21.2	67.5	75.0	83.3	83.	42.	31.	26.	1.9	727.
200+0N	122+5E	80.	46.	1.4	0.9	0.6	0.5	64.3	42.9	25.7	55.6	66.7	83.3	73.	47.	31.	26.	1.9	361.
200+0N	123+5E	80.	55.	1.7	1.1	0.8	0.6	64.7	47.1	25.3	54.5	72.7	75.0	71.	46.	34.	25.	2.4	432.
200+0N	124+5E	80.	48.	2.2	1.2	0.8	0.7	54.5	36.4	31.8	58.3	66.7	87.5	82.	45.	30.	26.	2.7	377.

LINE	STATION	I	V	M1	M2	M3	M4	Z/1	Z/1	Z/1	Z/2	Z/2	Z/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
200+0N	85+5E	80.	107.	1.9	1.0	0.7	0.6	52.6	36.8	31.6	60.0	70.0	85.7	83.	43.	30.	26.	2.3	840.
200+0N	84+5E	80.	110.	1.7	1.0	0.7	0.6	58.8	41.2	35.3	60.0	70.0	85.7	75.	44.	31.	27.	2.3	864.
200+0N	83+5E	80.	279.	1.8	1.0	0.7	0.6	55.6	38.9	33.3	60.0	70.0	85.7	79.	44.	31.	26.	2.3	2190.
200+0N	82+5E	80.	270.	1.9	1.1	0.9	0.8	57.9	47.4	42.1	72.7	81.8	88.9	67.	39.	32.	28.	2.8	2120.
200+0N	81+5E	80.	350.	2.6	1.6	1.3	1.0	61.5	50.0	38.5	62.5	81.2	76.9	68.	42.	34.	26.	3.8	2826.
202+5N	102+5E	80.	47.	1.1	1.0	0.7	0.6	50.9	63.6	54.5	60.0	70.0	85.7	51.	47.	33.	28.	2.1	369.
202+5N	102+5E	80.	62.	1.6	0.8	0.5	0.4	50.0	31.2	25.0	50.0	62.5	80.0	95.	48.	30.	24.	1.7	487.
202+5N	101+5E	80.	49.	1.8	1.3	1.0	0.9	72.2	55.6	57.0	69.2	76.9	90.0	58.	42.	32.	29.	3.1	385.
202+5N	100+5E	80.	48.	1.9	1.1	0.9	0.7	57.9	47.4	36.8	63.6	81.8	77.8	71.	41.	34.	26.	2.7	377.
202+5N	99+5E	80.	41.	2.3	2.0	1.5	1.9	87.0	82.6	82.6	95.0	95.0	100.0	40.	34.	33.	33.	5.8	377.
202+5N	98+5E	80.	50.	2.1	1.2	1.0	0.8	57.1	47.6	28.1	66.7	83.3	80.0	70.	40.	34.	27.	3.0	393.
202+5N	97+5E	80.	56.	2.2	1.5	0.9	0.7	68.2	36.4	31.8	46.7	53.3	87.5	79.	54.	29.	25.	2.8	440.
202+5N	96+5E	80.	50.	1.9	1.0	0.7	0.6	52.6	36.8	31.6	60.0	70.0	85.7	83.	43.	30.	26.	2.3	393.
202+5N	95+5E	60.	43.	1.9	1.0	0.8	0.6	52.6	42.1	31.6	60.0	80.0	75.0	80.	42.	34.	25.	2.4	450.
202+5N	94+5E	60.	37.	1.9	1.0	0.8	0.7	52.6	42.1	36.8	70.0	80.0	87.5	75.	39.	31.	28.	2.5	465.
202+5N	93+5E	70.	45.	1.8	0.8	0.6	0.5	44.4	33.3	27.8	62.5	75.0	83.3	92.	41.	31.	28.	2.0	404.
202+5N	92+5E	70.	83.	2.0	1.1	0.9	0.7	55.0	45.0	35.0	63.6	81.8	77.8	75.	41.	34.	26.	2.7	745.
202+5N	91+5E	70.	32.	1.3	0.5	0.4	0.3	38.5	30.8	23.1	60.0	80.0	75.0	103.	40.	32.	24.	1.3	287.
202+5N	90+5E	70.	46.	1.2	0.5	0.4	0.3	41.7	33.3	25.0	60.0	80.0	75.0	97.	40.	32.	24.	1.2	413.
202+5N	89+5E	70.	78.	1.7	1.0	0.7	0.6	58.8	41.2	35.3	60.0	70.0	85.7	75.	44.	31.	27.	2.3	700.
202+5N	88+5E	70.	70.	1.6	0.7	0.5	0.3	43.7	31.2	19.7	42.9	71.4	60.0	108.	47.	34.	20.	1.5	678.
202+5N	87+5E	70.	59.	1.7	1.0	0.7	0.5	58.8	41.2	29.4	50.0	70.0	71.4	81.	43.	33.	24.	2.1	579.
202+5N	86+5E	70.	63.	1.8	1.1	0.8	0.7	61.1	44.4	38.9	63.6	77.7	87.5	70.	43.	31.	27.	2.6	565.
202+5N	85+5E	70.	37.	1.5	0.8	0.5	0.4	53.3	33.3	26.7	50.0	62.5	80.0	90.	48.	30.	24.	1.7	332.
202+5N	84+5E	70.	45.	1.7	1.1	0.9	0.6	64.7	52.9	35.3	54.5	81.8	66.7	69.	45.	37.	24.	2.5	404.
202+5N	83+5E	70.	31.	2.1	1.2	0.9	0.8	57.1	42.9	29.1	60.7	75.0	88.9	72.	41.	31.	28.	2.9	278.
205+0N	82+5E	80.	120.	1.4	1.3	1.0	0.8	52.9	31.4	27.1	61.5	76.9	80.0	49.	45.	35.	28.	2.9	942.
205+0N	81+5E	80.	47.	1.3	1.2	1.1	1.0	97.3	84.6	76.9	83.3	91.7	90.9	40.	37.	34.	31.	3.2	336.
205+0N	80+5E	80.	105.	1.3	0.7	0.6	0.6	53.8	46.2	46.2	85.7	85.7	100.0	66.	35.	30.	30.	2.0	824.
205+0N	79+5E	80.	130.	1.7	1.0	0.7	0.6	58.8	41.2	35.3	60.0	70.0	85.7	75.	44.	31.	27.	2.3	1021.
205+0N	78+5E	80.	73.	1.2	0.6	0.4	0.3	50.0	33.3	25.0	50.0	66.7	75.0	94.	47.	31.	23.	1.3	573.
205+0N	77+5E	80.	147.	1.5	0.7	0.6	0.5	46.7	40.0	33.3	71.4	85.7	83.3	81.	38.	32.	27.	1.9	1154.
205+0N	76+5E	80.	60.	0.9	0.3	0.2	0.2	37.5	25.0	25.0	66.7	66.7	100.0	105.	39.	26.	26.	0.8	471.
205+0N	75+5E	80.	63.	1.2	0.5	0.3	0.3	41.7	25.0	25.0	60.0	60.0	100.0	103.	43.	26.	26.	1.2	495.
205+0N	74+5E	50.	86.	1.4	0.7	0.5	0.4	50.0	35.7	28.6	57.1	71.4	80.0	88.	44.	31.	25.	1.6	675.
205+0N	73+5E	80.	112.	1.0	0.3	0.2	0.2	30.0	20.0	20.0	66.7	66.7	100.0	125.	38.	25.	25.	0.8	879.
205+0N	72+5E	80.	200.	1.2	0.6	0.5	0.5	50.0	41.7	41.7	83.3	83.3	100.0	71.	36.	30.	30.	1.7	1570.
205+0N	71+5E	80.	107.	1.3	0.7	0.6	0.6	53.8	46.2	46.2	85.7	85.7	100.0	66.	35.	30.	30.	2.0	840.
205+0N	70+5E	80.	102.	1.4	0.8	0.6	0.6	57.1	42.9	42.9	75.0	75.0	100.0	69.	39.	29.	29.	2.0	1429.
205+0N	69+5E	80.	130.	1.2	0.9	0.8	0.7	75.0	66.7	58.3	77.8	88.9	87.5	51.	38.	34.	30.	2.4	1021.
205+0N	68+5E	80.	123.	1.3	1.0	0.9	0.7	76.7	69.2	53.8	70.0	90.0	77.8	52.	40.	36.	28.	2.5	966.
205+0N	67+5E	80.	99.	1.5	0.9	0.7	0.6	40.0	46.7	40.0	66.7	77.8	85.7	69.	41.	32.	28.	2.2	777.
205+0N	66+5E	80.	78.	1.3	0.7	0.5	0.5	53.8	38.5	38.5	71.4	71.4	100.0	75.	40.	29.	29.	1.7	612.
205+0N	65+5E	80.	66.	1.7	1.0	0.7	0.6	58.8	41.2	35.3	60.0	70.0	85.7	75.	44.	31.	27.	2.3	518.
205+0N	64+5E	80.	60.	1.4	0.8	0.6	0.6	57.1	42.9	42.9	75.0	75.0	100.0	69.	39.	29.	29.	2.0	471.
205+0N	63+5E	80.	60.	1.6	1.1	0.8	0.7	68.3	50.0	43.7	63.6	72.7	87.5	63.	44.	32.	28.	2.5	471.
205+0N	62+5E	80.	41.	1.2	1.1	1.0	0.9	91.7	83.3	75.0	81.8	90.9	90.0	41.	38.	34.	31.	2.9	322.
205+0N	61+5E	80.	18.	1.1	0.5	0.4	0.4	45.5	36.4	26.4	80.0	80.0	100.0	80.	36.	29.	29.	1.4	141.
210+0N	103+5E	100.	61.	1.7	0.9	0.6	0.5	52.9	35.3	29.4	55.6	66.7	83.3	86.	45.	30.	25.	2.0	396.
210+0N	102+5E	100.	53.	1.8	1.1	0.8	0.6	61.1	44.4	39.3	54.5	72.7	75.0	75.	46.	33.	25.	2.4	396.
210+0N	101+5E	100.	36.	1.4	0.7	0.5	0.5	50.0	35.7	35.7	71.4	71.4	100.0	80.	40.	28.	28.	1.8	276.
210+0N	100+5E	75.	59.	1.8	1.1	0.8	0.6	61.1	44.4	33.3	54.5	72.7	75.0	75.	46.	33.	25.	2.4	494.
210+0N	99+5E	75.	25.	1.2	0.5	0.4	0.3	41.7	33.3	25.0	60.0	80.0	75.0	97.	40.	32.	24.	1.2	191.
210+0N	98+5E	75.	39.	1.4	0.6	0.5	0.3	42.9	35.7	21.4	50.0	63.3	60.0	100.	43.	35.	21.	1.4	327.

LINE	STATION	T	V	M1	M2	M3	M4	2/1	3/1	4/1	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
210+0N	97+5E	75.	37.	1.5	0.9	0.6	0.5	60.0	40.0	33.3	55.6	66.7	83.3	77.	46.	31.	26.	1.9	310.
210+0N	96+5E	75.	33.	1.5	0.7	0.5	0.5	46.7	33.3	33.3	71.4	71.4	100.0	84.	39.	28.	28.	1.8	276.
210+0N	95+5E	75.	43.	0.8	0.5	0.5	0.3	62.5	62.5	27.5	60.0	100.0	60.0	65.	40.	40.	24.	1.2	360.
210+0N	94+5E	75.	41.	1.2	1.0	0.7	0.6	83.3	58.3	50.0	60.0	70.0	85.7	56.	46.	32.	28.	2.2	343.
210+0N	93+5E	45.	24.	2.0	1.1	0.8	0.7	55.0	40.0	35.0	63.6	72.7	87.5	77.	42.	31.	27.	2.6	335.
210+0N	92+5E	50.	32.	1.6	1.0	0.8	0.7	62.5	50.0	43.7	70.0	80.0	87.5	65.	40.	32.	28.	2.5	402.
210+0N	91+5E	50.	54.	2.7	1.8	1.1	1.0	66.7	60.7	37.0	55.6	61.1	90.9	72.	48.	29.	27.	3.7	678.
210+0N	90+5E	50.	43.	1.9	1.6	1.3	1.0	84.2	68.4	52.6	62.5	81.2	76.9	52.	44.	36.	27.	3.7	540.
210+0N	89+5E	50.	56.	2.8	1.9	1.5	1.2	67.9	53.6	42.9	63.2	78.9	80.0	63.	43.	34.	27.	4.4	703.
210+0N	88+5E	50.	48.	2.7	2.0	1.6	1.3	74.1	56.3	40.1	65.0	80.0	81.2	57.	43.	34.	28.	4.7	601.
210+0N	87+5E	50.	48.	3.1	2.0	1.7	1.4	64.5	54.9	45.2	70.0	85.0	82.4	62.	40.	34.	28.	5.0	603.
210+0N	86+5E	80.	64.	2.7	1.9	1.4	1.2	70.4	51.9	44.4	63.2	73.7	85.7	62.	44.	32.	28.	4.3	502.
210+0N	85+5E	80.	65.	2.8	2.0	1.5	1.2	71.4	53.6	42.9	60.0	75.0	80.0	63.	45.	33.	27.	4.5	510.
210+0N	84+5E	80.	61.	2.6	1.8	1.3	1.1	65.2	50.0	42.3	61.1	72.2	84.6	64.	45.	32.	27.	4.0	495.
210+0N	83+5E	80.	27.	2.0	1.3	1.1	0.9	65.0	55.0	45.0	69.2	64.6	81.8	62.	40.	34.	28.	3.2	212.
210+0N	82+5E	80.	37.	1.7	1.3	1.1	0.9	76.5	64.7	57.9	69.2	84.6	81.8	53.	41.	35.	28.	3.2	290.
210+0N	81+5E	80.	21.	2.5	1.5	1.3	1.0	60.0	52.0	40.0	66.7	66.7	76.9	67.	40.	35.	27.	3.7	165.
212+50	81+5E	100.	25.	2.9	1.7	1.4	1.1	56.6	48.3	37.9	64.7	82.4	78.6	70.	41.	34.	27.	4.1	157.
212+50	82+5E	100.	43.	1.9	1.7	1.3	0.9	29.5	68.4	47.4	52.9	76.5	69.2	54.	48.	37.	25.	3.5	770.
212+50	83+5E	100.	30.	2.1	1.5	1.1	0.8	71.4	52.4	38.1	53.3	73.3	72.7	66.	47.	35.	25.	3.2	185.
212+50	84+5E	100.	31.	2.1	1.2	1.0	0.8	57.1	47.6	38.1	66.7	83.3	80.0	70.	40.	34.	27.	3.0	195.
212+50	85+5E	100.	59.	1.8	1.2	0.9	0.7	66.7	50.0	33.9	58.3	75.0	77.8	67.	45.	34.	26.	2.7	371.
212+50	86+5E	100.	52.	2.2	1.5	1.0	0.8	65.2	43.5	34.8	53.3	66.7	80.0	73.	43.	32.	25.	3.1	327.
212+50	87+5E	100.	39.	1.5	1.3	1.0	0.7	86.7	66.7	46.7	53.3	76.9	70.0	55.	47.	36.	26.	2.7	245.
212+50	88+5E	100.	60.	1.7	1.0	0.8	0.7	58.8	47.1	41.2	70.0	80.0	87.5	68.	40.	32.	28.	2.5	377.
212+50	89+5E	100.	41.	1.5	1.5	1.2	1.1	100.0	86.7	73.3	73.3	85.7	84.6	41.	41.	35.	30.	3.7	257.
212+50	90+5E	100.	61.	1.9	1.2	0.9	0.7	63.2	42.1	36.8	58.3	66.7	87.5	73.	46.	31.	27.	2.6	383.
212+50	91+5E	100.	46.	0.9	0.8	0.6	0.5	28.9	66.7	55.6	62.5	75.0	83.3	51.	45.	34.	28.	1.8	289.
212+50	92+5E	100.	83.	1.6	0.8	0.6	0.4	50.0	37.5	25.0	50.0	75.0	66.7	91.	45.	34.	23.	1.8	521.
212+50	93+5E	100.	75.	2.2	1.4	0.9	0.6	63.6	40.9	27.3	42.9	64.3	66.7	82.	52.	34.	22.	2.7	471.
212+50	94+5E	100.	61.	0.9	0.4	0.3	0.3	44.4	33.3	23.3	75.0	75.0	100.0	85.	38.	28.	28.	1.1	381.
212+50	95+5E	100.	83.	2.3	1.4	1.1	1.0	60.9	47.8	43.5	71.4	38.6	90.9	60.	40.	31.	29.	3.5	521.
212+50	96+5E	100.	47.	1.3	0.7	0.6	0.6	53.8	46.2	46.2	85.7	85.7	100.0	66.	35.	30.	30.	2.0	295.
212+50	97+5E	100.	39.	1.8	1.2	0.9	0.6	66.7	50.0	33.3	50.0	75.0	66.7	71.	48.	36.	24.	2.5	239.
212+50	98+5E	100.	35.	1.7	0.9	0.7	0.6	52.9	41.2	35.3	66.7	77.8	85.7	77.	41.	32.	27.	2.2	220.
212+50	99+5E	100.	30.	2.1	1.3	1.0	0.8	61.9	47.6	39.1	61.5	76.9	80.0	70.	43.	33.	26.	3.0	188.
212+50	100+5E	80.	33.	2.0	1.2	0.9	0.8	60.0	45.0	40.0	66.7	75.0	88.9	69.	42.	31.	28.	2.9	259.
212+50	101+5E	80.	36.	1.0	0.4	0.4	0.4	40.0	40.0	40.0	100.0	100.0	100.0	76.	30.	30.	30.	1.3	251.
212+50	102+5E	90.	34.	1.2	0.8	0.7	0.6	66.7	58.3	50.0	75.0	87.5	85.7	58.	38.	34.	29.	2.1	251.
212+50	103+5E	50.	30.	3.0	2.2	2.0	1.7	73.3	66.7	56.7	77.3	90.9	85.0	52.	38.	34.	29.	5.8	709.
215+0N	103+5E	80.	43.	1.3	0.9	0.6	0.4	65.2	46.2	50.8	44.4	66.7	66.7	75.	52.	34.	23.	1.7	338.
215+0N	102+5E	80.	43.	1.1	1.0	0.7	0.5	90.9	63.5	45.5	50.0	70.0	71.4	56.	51.	35.	25.	2.0	338.
215+0N	101+5E	80.	37.	2.0	1.2	0.9	0.7	40.0	45.0	35.0	58.3	75.0	77.8	74.	44.	33.	26.	2.7	290.
215+0N	100+5E	80.	38.	1.7	0.9	0.7	0.7	52.9	41.2	41.2	77.8	77.8	100.0	71.	38.	29.	29.	2.4	298.
215+0N	99+5E	80.	43.	1.8	0.9	0.6	0.5	60.0	33.3	27.8	55.6	66.7	83.3	90.	45.	30.	25.	2.0	338.
215+0N	98+5E	80.	78.	1.9	1.1	0.8	0.6	57.9	42.1	31.6	54.5	72.7	75.0	79.	45.	33.	25.	2.4	612.
215+0N	97+5E	80.	65.	1.7	0.9	0.6	0.4	52.9	39.3	23.5	44.4	66.7	66.7	93.	49.	33.	22.	1.8	510.
215+0N	96+5E	80.	62.	1.6	0.8	0.6	0.5	50.0	37.5	31.2	67.5	75.0	83.3	83.	42.	31.	26.	1.9	487.
215+0N	95+5E	80.	72.	2.0	1.2	0.9	0.7	60.0	45.0	35.0	58.3	75.0	77.8	74.	44.	33.	26.	2.7	565.
215+0N	94+5E	90.	42.	0.9	0.5	0.4	0.2	55.6	44.4	22.2	40.0	80.0	50.0	88.	49.	39.	20.	1.0	293.
215+0N	93+5E	95.	70.	1.9	1.3	0.8	0.7	68.4	47.1	36.8	53.8	61.5	87.5	71.	49.	30.	26.	2.7	517.
215+0N	92+5E	80.	45.	1.3	0.7	0.4	0.3	53.8	30.8	23.1	42.9	57.1	75.0	97.	52.	30.	22.	1.3	385.
215+0N	91+5E	80.	36.	1.5	0.8	0.5	0.4	53.3	33.3	26.7	50.0	67.5	80.0	90.	48.	30.	24.	1.7	283.
215+0N	90+5E	80.	34.	1.5	0.8	0.5	0.4	53.3	33.3	26.7	50.0	62.5	80.0	90.	48.	30.	24.	1.7	267.
215+0N	89+5E	80.	83.	1.5	1.2	0.8	0.6	63.2	42.1	31.6	50.0	66.7	75.0	77.	49.	33.	24.	2.5	652.

LINE	STATION	I	V	M1	M2	M3	M4	Z/1	Z/1	4/1	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
215+0N	88+5E	80.	53.	1.9	1.2	0.9	0.7	63.2	47.4	36.8	58.3	75.0	77.8	70.	44.	33.	26.	2.7	415.
215+0N	87+5E	80.	71.	4.1	2.9	2.3	1.8	70.7	56.1	43.9	62.1	79.3	78.3	61.	43.	34.	27.	6.7	557.
215+0N	86+5E	80.	62.	4.1	3.2	2.6	2.1	78.0	63.4	51.2	65.6	81.3	80.8	54.	42.	34.	28.	7.5	487.
215+0N	85+5E	80.	80.	5.0	3.8	3.0	2.5	76.0	60.0	50.0	65.8	78.9	83.3	56.	43.	34.	28.	8.9	678.
215+0N	84+5E	80.	74.	4.9	3.7	2.9	2.4	75.5	59.2	49.0	64.9	78.4	82.8	57.	43.	34.	28.	8.6	516.
215+0N	83+5E	80.	31.	2.3	1.4	1.2	1.0	60.9	52.2	43.5	71.4	85.7	83.3	64.	39.	34.	28.	3.6	243.
215+0N	82+5E	80.	33.	3.2	2.3	1.7	1.4	71.9	53.1	43.7	60.9	73.9	82.4	62.	45.	33.	27.	5.2	259.
215+0N	81+5E	80.	57.	2.6	1.8	1.4	1.2	69.2	53.8	46.2	66.7	77.8	85.7	61.	42.	33.	28.	4.3	447.
217+5N	81+5E	100.	31.	1.3	0.6	0.4	0.4	46.2	30.8	30.8	66.7	66.7	100.0	89.	41.	27.	27.	1.5	195.
217+5N	82+5E	100.	24.	1.9	1.2	0.8	0.7	63.2	42.1	36.8	58.3	66.7	87.5	73.	46.	31.	27.	2.6	151.
217+5N	83+5E	100.	30.	2.2	1.2	0.9	0.7	54.5	40.9	31.8	58.3	75.0	77.8	80.	43.	33.	25.	2.8	188.
217+5N	84+5E	100.	49.	1.9	1.2	1.1	0.9	63.2	57.7	47.4	75.0	91.7	81.8	60.	38.	35.	28.	3.2	308.
217+5N	85+5E	100.	50.	2.7	1.8	1.4	1.1	66.7	51.9	40.7	61.1	77.8	78.6	65.	43.	34.	27.	4.1	285.
217+5N	86+5E	100.	109.	3.8	2.7	2.3	1.8	71.1	60.5	47.4	66.7	85.2	78.3	58.	41.	35.	27.	6.6	685.
217+5N	87+5E	110.	72.	3.5	2.6	2.0	1.6	74.3	57.1	45.7	61.5	76.9	80.0	59.	44.	34.	27.	5.9	411.
217+5N	88+5E	110.	82.	3.5	2.8	2.2	1.9	71.8	56.4	43.7	67.9	78.6	86.4	58.	42.	33.	28.	6.7	468.
217+5N	89+5E	110.	87.	2.7	1.8	1.5	1.2	66.7	55.6	44.4	66.7	83.3	80.0	62.	41.	34.	27.	4.4	546.
217+5N	90+5E	110.	58.	2.5	1.6	1.2	1.0	64.0	48.0	40.0	62.5	75.0	83.3	68.	43.	32.	27.	3.7	331.
217+5N	91+5E	110.	88.	3.0	2.1	1.7	1.3	70.0	56.7	43.3	61.9	81.0	76.5	61.	43.	35.	27.	4.9	502.
217+5N	92+5E	110.	62.	1.7	0.9	0.7	0.5	52.9	41.2	29.4	55.6	77.8	71.4	82.	44.	34.	24.	2.1	354.
217+5N	93+5E	110.	43.	1.4	1.0	0.7	0.5	71.4	50.0	35.7	50.0	70.0	71.4	69.	49.	34.	25.	2.6	245.
217+5N	94+5E	110.	31.	1.5	0.7	0.5	0.4	46.7	33.3	26.7	57.1	71.4	80.0	93.	43.	31.	25.	1.6	177.
217+5N	95+5E	110.	49.	1.1	0.7	0.6	0.5	63.6	54.5	45.5	71.4	85.7	83.3	62.	39.	34.	28.	1.8	280.
217+5N	96+5E	105.	43.	0.5	0.5	0.4	0.3	55.6	44.4	33.3	60.0	80.0	75.0	76.	42.	34.	25.	1.2	257.
217+5N	97+5E	100.	62.	1.7	1.0	0.6	0.4	58.8	35.3	23.5	40.0	60.0	66.7	91.	54.	32.	22.	1.9	389.
217+5N	98+5E	100.	57.	1.4	0.8	0.6	0.5	57.1	42.9	35.7	62.5	75.0	83.3	74.	43.	32.	27.	1.9	358.
217+5N	99+5E	100.	42.	0.9	0.8	0.6	0.5	68.9	66.7	55.6	62.5	75.0	83.3	51.	45.	34.	28.	1.8	264.
217+5N	100+5E	100.	61.	1.7	0.9	0.7	0.5	52.9	41.2	29.4	55.6	77.8	71.4	83.	44.	34.	24.	2.1	383.
217+5N	101+5E	100.	52.	1.4	0.8	0.5	0.4	57.1	35.7	28.6	50.0	62.5	80.0	85.	49.	30.	24.	1.6	327.
217+5N	102+5E	100.	81.	1.8	0.9	0.6	0.5	50.0	33.3	27.8	55.6	66.7	83.3	90.	45.	30.	25.	2.0	509.
217+5N	103+5E	100.	55.	1.5	0.9	0.6	0.5	60.0	40.0	33.3	55.6	66.7	83.3	77.	46.	31.	26.	1.9	371.
220+0N	104+5E	70.	52.	1.8	1.0	0.7	0.6	55.6	38.9	33.3	60.0	70.0	85.7	79.	44.	31.	26.	2.3	467.
220+0N	103+5E	50.	48.	1.7	0.9	0.7	0.6	52.9	41.2	35.3	66.7	77.8	85.7	77.	41.	32.	27.	2.2	603.
220+0N	102+5E	50.	26.	1.7	0.9	0.6	0.5	52.9	35.3	29.4	55.6	66.7	83.3	86.	45.	30.	25.	2.0	327.
220+0N	100+5E	50.	49.	1.7	0.9	0.6	0.5	52.9	35.3	29.4	55.6	66.7	83.3	86.	45.	30.	25.	2.0	415.
220+0N	99+5E	50.	37.	1.8	1.1	0.9	0.7	61.1	50.0	38.9	63.6	81.8	77.3	66.	42.	34.	27.	2.6	465.
220+0N	98+5E	50.	30.	1.8	0.9	0.7	0.6	50.0	38.9	33.3	66.7	77.8	85.7	80.	40.	31.	27.	2.2	377.
220+0N	97+5E	50.	24.	1.7	0.8	0.6	0.5	47.1	35.3	29.4	62.5	75.0	83.3	88.	41.	31.	26.	1.9	301.
220+0N	96+5E	50.	17.	1.5	0.7	0.5	0.4	46.7	33.3	26.7	57.1	71.4	80.0	93.	43.	31.	25.	1.6	214.
220+0N	95+5E	50.	15.	1.3	0.5	0.4	0.3	36.5	30.8	23.1	60.0	80.0	75.0	103.	40.	32.	24.	1.3	188.
220+0N	94+5E	50.	15.	0.9	0.8	0.5	0.4	68.9	55.6	44.4	50.0	62.5	80.0	58.	52.	32.	26.	1.5	188.
220+0N	93+5E	50.	13.	1.7	0.3	0.0	0.0	17.6	0.0	0.0	0.0	0.0	0.0	370.	65.	0.	0.	0.5	163.
220+0N	92+5E	50.	27.	1.6	0.8	0.6	0.5	50.0	37.5	31.2	62.5	75.0	83.3	83.	42.	31.	26.	1.9	379.
220+0N	91+5E	50.	35.	2.9	1.8	1.3	1.0	62.1	44.8	35.2	68.9	72.2	123.1	59.	37.	27.	33.	4.9	452.
220+0N	90+5E	50.	50.	4.1	3.2	2.2	2.1	78.0	53.7	41.2	65.6	68.7	95.5	57.	44.	30.	29.	7.2	628.
220+0N	89+5E	50.	59.	3.6	2.5	2.0	1.7	65.4	55.6	47.2	69.0	80.0	85.0	60.	41.	33.	28.	6.0	741.
220+0N	88+5E	50.	71.	4.4	3.6	2.6	2.2	81.8	59.1	50.0	61.1	72.2	84.6	56.	45.	33.	28.	7.9	897.
220+0N	87+5E	50.	41.	1.4	1.2	0.9	0.7	65.7	64.3	50.0	58.3	75.0	77.8	54.	46.	35.	27.	2.6	515.
220+0N	86+5E	50.	39.	3.0	1.9	1.5	1.2	63.3	50.0	40.0	63.2	78.9	80.0	67.	42.	33.	27.	4.5	450.
220+0N	85+5E	50.	30.	2.3	1.6	1.3	1.1	69.6	56.5	47.8	60.8	81.2	84.6	59.	41.	33.	28.	3.9	377.
220+0N	84+5E	50.	23.	1.9	1.0	0.9	0.7	52.6	47.4	35.8	70.0	90.0	77.8	73.	38.	34.	27.	2.6	289.
220+0N	83+5E	50.	13.	1.9	1.2	0.8	0.8	53.2	42.1	42.1	66.7	66.7	100.0	69.	43.	29.	25.	2.8	276.
220+0N	82+5E	50.	40.	1.5	0.9	0.9	0.6	47.4	42.1	31.6	66.7	88.7	75.0	81.	38.	34.	26.	2.3	502.
220+0N	81+5E	50.	54.	1.5	0.9	0.5	0.5	50.0	33.3	33.3	55.6	55.6	100.0	81.	48.	27.	27.	1.9	703.
220+0N	80+5E	50.	42.	0.9	0.6	0.5	0.5	66.7	66.7	55.6	83.3	100.0	83.3	53.	35.	35.	29.	1.7	528.

LINE	STATION	I	V	M1	M2	M3	M4	Z/1	Z/2	Z/3	Z/4	Z/5	Z/6	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY	
100+0N	95+5E	50.	42.	1.1	0.7	0.6	0.5	63.6	54.5	45.5	71.4	85.7	83.3	62.	39.	34.	28.	1.8	528.	
100+0N	94+5E	50.	39.	0.7	0.7	0.5	0.6	100.0	71.4	65.7	85.7	85.7	71.4	120.0	39.	39.	28.	34.	1.8	490.
100+0N	93+5E	50.	100.	1.4	0.8	0.5	0.4	57.1	35.7	29.6	50.0	62.5	80.0	85.	49.	30.	24.	1.6	1256.	
100+0N	92+5E	50.	156.	1.5	0.9	0.8	0.7	60.0	53.3	46.7	77.8	88.9	87.5	62.	37.	33.	29.	2.4	1959.	
100+0N	91+5E	50.	150.	1.9	1.1	0.7	0.7	57.9	36.8	36.8	63.6	63.6	100.0	76.	44.	28.	28.	2.5	1884.	
100+0N	90+5E	50.	195.	1.9	1.1	0.9	0.7	57.9	47.4	26.8	63.6	81.8	77.8	71.	41.	34.	26.	2.7	2449.	
100+0N	89+5E	50.	235.	1.8	1.0	0.8	0.7	55.6	44.4	38.9	70.0	80.0	87.5	71.	40.	32.	28.	2.5	2952.	
100+0N	88+5E	50.	252.	1.9	1.0	0.8	0.7	52.6	42.1	26.8	70.0	80.0	87.5	71.	40.	31.	28.	2.5	3165.	
100+0N	87+5E	50.	276.	2.3	1.3	1.0	0.9	56.5	43.5	39.1	69.2	76.9	90.0	71.	40.	31.	28.	3.2	3467.	
100+0N	86+5E	50.	302.	2.0	1.1	0.8	0.6	55.0	40.0	23.0	54.5	72.7	75.0	82.	45.	33.	25.	2.4	3793.	
100+0N	85+5E	50.	276.	2.4	1.5	1.1	0.9	62.5	45.8	37.5	60.0	73.3	81.8	71.	44.	32.	26.	3.4	3467.	
100+0N	84+5E	50.	258.	1.2	1.0	0.9	0.8	55.6	50.0	44.4	80.0	90.0	88.9	65.	35.	31.	29.	2.8	3240.	
100+0N	83+5E	50.	118.	1.8	1.0	0.9	0.7	55.6	44.4	38.9	70.0	80.0	87.5	71.	40.	32.	28.	2.5	1482.	
100+0N	82+5E	50.	120.	1.9	1.0	0.8	0.7	52.6	42.1	36.8	70.0	80.0	87.5	71.	40.	32.	28.	2.5	1482.	
100+0N	81+5E	50.	204.	2.1	1.2	0.9	0.8	57.1	42.9	23.1	66.7	75.0	88.9	72.	41.	31.	28.	2.9	2562.	
100+0N	80+5E	50.	166.	2.3	1.4	1.0	0.8	60.9	43.5	34.8	57.1	71.4	80.0	74.	45.	32.	26.	3.1	2045.	
100+0N	79+5E	50.	155.	2.4	1.5	1.1	0.9	62.5	45.8	37.5	60.0	73.3	81.8	71.	44.	32.	26.	3.4	1959.	
100+0N	78+5E	50.	108.	2.1	1.2	1.0	0.8	57.1	47.6	28.1	66.7	83.3	80.0	70.	40.	34.	27.	3.0	1356.	
100+0N	77+5E	50.	46.	3.0	2.4	2.2	2.0	80.0	73.3	66.7	83.3	91.7	90.9	46.	37.	34.	31.	6.5	578.	
100+0N	76+5E	50.	49.	2.0	1.3	1.1	0.9	65.0	55.0	45.0	69.2	84.6	81.8	62.	40.	34.	28.	3.2	615.	
100+0N	75+5E	50.	45.	1.5	1.0	0.8	0.7	66.7	53.3	46.7	70.0	80.0	87.5	61.	41.	33.	28.	2.5	565.	
100+0N	74+5E	50.	41.	1.2	0.9	0.8	0.7	75.0	66.7	58.3	77.8	88.9	87.5	51.	38.	34.	30.	2.4	525.	
100+0N	73+5E	50.	26.	1.4	0.7	0.5	0.3	50.0	35.7	21.4	42.9	71.4	60.0	97.	49.	35.	21.	1.4	327.	
100+0N	72+5E	50.	29.	1.9	0.9	0.6	0.5	47.4	31.6	26.3	55.6	66.7	83.3	94.	45.	30.	25.	2.0	364.	
100+0N	71+5E	50.	16.	2.7	1.4	1.1	1.1	63.6	50.0	53.0	78.6	78.6	100.0	60.	38.	30.	30.	3.6	201.	
100+0N	70+5E	50.	15.	2.1	1.3	1.0	0.8	61.9	47.6	33.1	61.5	76.9	80.0	70.	43.	33.	26.	3.0	188.	
100+0N	69+5E	50.	15.	1.8	1.3	0.9	0.6	72.2	50.0	23.3	46.2	69.2	66.7	70.	51.	35.	23.	2.6	188.	
102+5N	124+5E	70.	21.	1.5	1.1	1.5	1.5	73.3	100.0	100.0	136.4	136.4	100.0	35.	25.	35.	35.	4.3	188.	
102+5N	123+5E	70.	40.	0.3	0.0	0.0	0.1	0.0	0.0	33.3	0.0	0.0	0.0	136.	0.	0.	45.	0.2	359.	
102+5N	122+5E	70.	36.	0.0	-0.2	-0.6	-1.1	0.0	0.0	0.0	550.0	300.0	183.3	0.	9.	26.	47.	-2.3	323.	
102+5N	121+5E	70.	40.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	359.	
102+5N	120+5E	70.	37.	0.8	0.2	0.2	0.3	25.0	25.0	37.5	150.0	100.0	150.0	91.	23.	23.	34.	0.9	337.	
102+5N	119+5E	70.	35.	1.3	0.6	0.4	0.4	46.2	30.8	30.8	66.7	66.7	100.0	89.	41.	27.	27.	1.5	314.	
102+5N	118+5E	70.	27.	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.	0.	0.	0.	0.1	242.	
102+5N	117+5E	70.	37.	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.	0.	0.	0.	0.2	332.	
102+5N	116+5E	70.	30.	2.4	1.8	1.4	1.2	75.0	58.3	50.0	66.7	77.8	85.7	57.	42.	33.	28.	4.2	269.	
102+5N	115+5E	70.	55.	0.9	0.4	0.5	0.5	44.4	55.6	55.6	125.0	125.0	100.0	58.	26.	32.	32.	1.5	493.	
102+5N	114+5E	70.	93.	0.6	0.2	0.2	0.3	33.3	33.3	50.0	150.0	100.0	150.0	71.	24.	24.	36.	0.8	834.	
102+5N	113+5E	70.	100.	0.9	0.4	0.3	0.4	44.4	33.3	44.4	100.0	75.0	133.3	74.	33.	25.	33.	1.7	897.	
102+5N	112+5E	70.	93.	0.5	0.1	0.2	0.3	20.0	40.0	60.0	300.0	200.0	150.0	64.	13.	26.	38.	0.8	834.	
102+5N	111+5E	70.	73.	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	33.3	0.	0.	75.	25.	0.4	655.	
102+5N	110+5E	70.	82.	1.1	0.6	0.5	0.5	54.5	45.5	45.5	83.3	83.3	100.0	66.	36.	30.	30.	1.7	736.	
102+5N	109+5E	70.	77.	0.8	0.4	0.3	0.4	50.0	37.5	50.0	100.0	75.0	133.3	67.	33.	25.	33.	1.2	691.	
102+5N	108+5E	70.	67.	0.4	0.1	0.2	0.4	25.0	50.0	100.0	400.0	200.0	200.0	43.	11.	22.	43.	0.9	601.	
102+5N	107+5E	70.	71.	-0.4	-0.5	-0.2	0.0	125.0	50.0	0.0	0.0	40.0	0.0	91.	114.	45.	0.	-0.4	637.	
102+5N	106+5E	70.	57.	0.6	0.2	0.1	0.2	23.3	16.7	33.3	107.0	50.0	200.0	100.	33.	17.	33.	0.6	511.	
102+5N	105+5E	70.	98.	2.2	1.3	1.1	0.9	59.1	50.0	40.9	69.2	84.6	81.8	67.	40.	34.	27.	3.3	879.	
102+5N	104+5E	70.	106.	1.4	1.2	0.9	0.7	85.7	64.3	50.0	58.3	75.0	77.8	54.	46.	35.	27.	2.6	951.	
102+5N	103+5E	70.	243.	1.3	0.8	0.6	0.7	61.5	46.2	53.8	87.5	75.0	116.7	60.	37.	28.	37.	2.2	2153.	
102+5N	102+5E	70.	130.	1.0	0.6	0.5	0.4	60.0	50.0	40.0	66.7	83.3	80.0	68.	41.	34.	27.	1.5	1166.	
102+5N	101+5E	70.	160.	1.2	0.7	0.5	0.5	52.3	41.7	41.7	71.4	71.4	100.0	70.	41.	29.	29.	1.7	1435.	
102+5N	100+5E	70.	137.	0.8	0.4	0.3	0.4	50.0	37.5	50.0	100.0	75.0	133.3	67.	33.	25.	33.	1.2	1229.	
102+5N	99+5E	70.	107.	1.0	0.7	0.6	0.4	70.0	60.0	40.0	57.1	65.7	66.7	63.	44.	39.	25.	1.6	560.	
102+5N	98+5E	70.	93.	0.9	0.6	0.5	0.4	66.7	55.6	44.4	66.7	83.3	80.0	62.	41.	34.	27.	1.5	879.	
102+5N	97+5E	80.	425.	1.8	1.4	1.1	0.9	77.8	61.1	50.0	64.3	78.6	81.8	56.	43.	34.	28.	3.2	3336.	

LINE	STATION	I	V	M1	M2	M3	M4	Z/1	Z/1	Z/1	Z/2	Z/2	Z/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
1a2+5N	81+5E	80.	255.	2.3	1.4	1.0	0.9	60.9	42.5	29.1	64.3	71.4	90.0	71.	43.	31.	28.	3.3	2002.
1a2+5N	82+5E	80.	270.	1.9	1.3	1.0	0.8	68.4	52.6	42.1	61.5	76.9	80.0	64.	44.	34.	27.	3.0	2120.
1a2+5N	83+5E	80.	312.	2.1	1.2	0.9	0.8	57.1	42.9	33.1	66.7	75.0	88.9	72.	41.	31.	28.	2.9	2449.
1a2+5N	84+5E	80.	231.	1.5	0.8	0.5	0.5	53.3	33.3	23.3	62.5	62.5	100.0	82.	44.	27.	27.	1.8	1578.
1a2+5N	85+5E	80.	381.	1.8	1.0	0.8	0.7	55.4	44.4	38.9	70.0	80.0	87.5	71.	40.	32.	28.	2.5	2991.
1a2+5N	86+5E	80.	279.	1.8	1.0	0.8	0.7	55.6	44.4	38.9	70.0	80.0	87.5	71.	40.	32.	28.	2.5	2190.
1a2+5N	87+5E	80.	345.	1.5	0.8	0.6	0.6	53.3	40.0	40.0	75.0	75.0	100.0	73.	39.	29.	29.	2.1	2708.
1a2+5N	88+5E	80.	210.	1.2	0.6	0.4	0.4	50.0	33.3	33.3	66.7	66.7	100.0	83.	42.	28.	28.	1.4	1649.
1a2+5N	89+5E	90.	307.	-0.1	-0.5	-0.3	0.0	500.0	300.0	0.0	0.0	60.0	0.0	22.	109.	65.	0.	-0.5	3116.
1a2+5N	90+5E	80.	270.	1.1	0.6	0.4	0.3	54.5	36.4	27.3	50.0	65.7	75.0	87.	48.	32.	24.	1.3	2120.
1a2+5N	91+5E	80.	304.	1.8	1.0	0.7	0.7	55.6	38.9	38.9	70.0	70.0	100.0	74.	41.	29.	29.	2.4	2402.
1a2+5N	92+5E	80.	363.	1.9	1.0	0.8	0.7	52.6	42.1	35.8	70.0	80.0	87.5	75.	39.	31.	28.	2.5	2850.
1a2+5N	93+5E	80.	273.	1.0	0.5	0.4	0.4	50.0	40.0	40.0	80.0	80.0	100.0	74.	37.	29.	29.	1.4	2143.
1a2+5N	94+5E	80.	153.	1.5	0.8	0.6	0.5	53.3	40.0	33.3	62.5	75.0	83.3	79.	42.	32.	26.	1.9	1201.
1a2+5N	95+5E	80.	84.	1.7	0.6	0.4	0.4	50.0	33.3	33.3	66.7	66.7	100.0	83.	42.	28.	28.	1.4	659.
1a2+5N	96+5E	80.	210.	1.6	0.9	0.8	0.7	56.2	50.0	43.7	77.8	80.9	97.5	66.	37.	33.	29.	2.4	1649.
1a2+5N	97+5E	80.	138.	1.2	0.9	0.8	0.8	75.0	65.7	66.7	88.9	88.9	100.0	48.	36.	32.	32.	2.5	1083.
1a5+0N	75+5E	50.	151.	2.9	1.9	1.5	1.2	65.5	51.7	41.4	63.2	78.9	80.0	65.	43.	34.	27.	4.5	1897.
1a5+0N	76+5E	50.	114.	2.8	1.8	1.4	1.1	64.3	50.3	39.3	61.1	77.8	78.6	67.	43.	34.	26.	4.2	1432.
1a5+0N	77+5E	50.	210.	2.7	1.8	1.4	1.1	66.7	51.9	40.7	61.1	77.8	78.6	65.	43.	34.	27.	4.1	2638.
1a5+0N	78+5E	50.	48.	2.4	1.7	1.3	1.0	70.8	54.2	41.7	58.8	76.5	78.9	63.	45.	34.	26.	3.8	603.
1a5+0N	79+5E	50.	134.	2.3	1.3	1.0	0.9	56.5	43.5	39.1	69.2	76.9	90.0	71.	40.	31.	28.	3.2	1691.
1a5+0N	80+5E	80.	408.	2.4	1.5	1.2	1.0	62.5	50.0	41.7	66.7	80.0	83.3	66.	41.	33.	27.	3.6	3703.
1a5+0N	81+5E	80.	244.	2.5	1.6	1.2	0.9	64.0	48.2	36.0	56.2	75.0	75.0	71.	45.	34.	25.	3.5	1915.
1a5+0N	82+5E	80.	379.	2.6	1.6	1.2	1.0	61.5	46.2	38.5	62.5	75.0	83.3	70.	43.	32.	27.	3.7	2975.
1a5+0N	83+5E	80.	180.	1.9	1.1	0.8	0.6	57.9	42.1	31.6	54.5	72.7	75.0	79.	45.	33.	25.	2.4	1413.
1a5+0N	84+5E	80.	201.	1.6	0.8	0.5	0.4	50.0	31.2	25.0	50.0	62.5	80.0	95.	48.	30.	24.	1.7	1578.
1a5+0N	85+5E	80.	117.	1.6	0.8	0.6	0.4	50.0	37.5	25.0	50.0	75.0	66.7	91.	45.	34.	23.	1.8	918.
1a5+0N	86+5E	80.	233.	1.6	0.9	0.7	0.7	56.2	43.7	43.7	77.8	77.8	100.0	68.	38.	30.	30.	2.4	1879.
1a5+0N	87+5E	80.	50.	1.5	0.8	0.6	0.5	53.3	40.0	33.3	62.5	75.0	83.3	79.	42.	32.	26.	1.9	393.
1a5+0N	88+5E	80.	100.	1.7	0.9	0.8	0.8	52.9	47.1	47.1	88.9	88.9	100.0	65.	34.	31.	31.	2.6	785.
1a5+0N	89+5E	80.	64.	1.7	1.0	0.7	0.7	58.8	41.2	41.2	70.0	70.0	100.0	70.	41.	29.	29.	2.4	502.
1a5+0N	90+5E	80.	321.	1.5	0.9	0.9	1.0	60.0	60.0	66.7	111.1	100.0	111.1	50.	30.	30.	34.	3.0	2670.
1a5+0N	91+5E	80.	229.	2.2	1.4	1.2	1.0	63.6	54.5	45.5	71.4	85.7	83.3	67.	39.	34.	28.	3.6	1790.
1a5+0N	92+5E	80.	430.	1.9	1.1	0.8	0.7	57.9	42.1	36.8	63.6	72.7	87.5	74.	43.	31.	27.	2.6	3376.
1a5+0N	93+5E	80.	290.	2.0	1.3	1.1	1.0	65.0	55.0	50.0	76.9	84.5	90.9	59.	38.	32.	29.	3.4	2277.
1a5+0N	94+5E	80.	348.	2.1	1.4	1.1	0.9	66.7	52.4	42.9	64.3	76.6	81.8	64.	42.	33.	27.	3.3	2732.
1a5+0N	95+5E	80.	378.	2.6	1.8	1.5	1.4	69.2	57.7	53.8	77.8	83.3	93.3	56.	38.	32.	30.	4.7	2967.
1a5+0N	96+5E	80.	307.	2.4	1.5	1.2	1.1	62.5	50.0	45.8	73.3	80.0	91.7	63.	39.	32.	29.	3.8	2410.
1a5+0N	97+5E	80.	298.	2.7	1.9	1.6	1.4	70.4	59.3	51.9	73.7	84.2	87.5	56.	39.	33.	29.	4.8	2761.
1a5+0N	98+5E	80.	238.	1.9	1.2	1.0	1.0	63.2	52.6	52.6	81.7	83.3	100.0	58.	37.	31.	31.	3.3	1858.
1a5+0N	99+5E	80.	236.	2.5	1.7	1.3	1.1	68.0	52.0	44.0	64.7	76.5	84.6	63.	43.	33.	28.	4.0	1853.
1a5+0N	100+5E	50.	122.	2.1	1.3	1.0	0.9	61.9	47.6	42.9	69.2	76.9	90.0	66.	41.	31.	28.	3.2	1532.
1a5+0N	101+5E	50.	85.	1.6	1.0	0.8	0.7	62.5	50.0	43.7	70.0	80.0	87.5	65.	40.	32.	28.	2.5	1068.
1a5+0N	102+5E	50.	114.	1.1	0.6	0.6	0.6	54.5	54.5	54.5	100.0	100.0	100.0	58.	32.	32.	32.	1.9	1437.
1a5+0N	103+5E	50.	117.	1.3	0.7	0.6	0.6	53.8	46.2	46.2	85.7	85.7	100.0	66.	35.	30.	30.	2.0	1470.
1a5+0N	104+5E	50.	114.	1.2	0.7	0.6	0.5	56.3	50.0	41.7	71.4	85.7	83.3	67.	39.	33.	28.	1.8	1432.
1a5+0N	105+5E	50.	85.	0.8	0.4	0.4	0.6	50.0	50.0	75.0	150.0	100.0	150.0	50.	25.	25.	38.	1.6	1068.
1a5+0N	106+5E	50.	30.	1.0	0.8	0.5	0.4	80.0	50.0	40.0	50.0	62.5	80.0	64.	51.	32.	26.	1.6	377.
1a5+0N	107+5E	50.	33.	1.2	0.6	0.4	0.4	50.0	33.3	33.3	66.7	66.7	100.0	83.	42.	28.	28.	1.4	414.
1a5+0N	108+5E	50.	83.	1.6	1.0	0.8	0.8	62.5	50.0	50.0	80.0	80.0	100.0	61.	38.	30.	30.	2.6	1042.
1a5+0N	109+5E	50.	71.	0.9	0.4	0.4	0.4	44.4	44.4	44.4	100.0	100.0	100.0	69.	31.	31.	31.	1.3	892.
1a5+0N	110+5E	50.	95.	1.2	0.6	0.5	0.5	50.0	41.7	41.7	83.3	83.3	100.0	71.	36.	30.	30.	1.7	1193.
1a5+0N	111+5E	50.	98.	1.3	0.7	0.6	0.5	53.8	46.2	38.5	71.4	85.7	83.3	71.	38.	33.	27.	1.8	1105.
1a5+0N	112+5E	50.	68.	1.5	1.0	0.8	0.8	66.7	53.3	53.3	80.0	80.0	100.0	57.	38.	31.	31.	2.6	854.
1a5+0N	113+5E	50.	95.	1.2	0.7	0.6	0.6	56.3	50.0	50.0	85.7	85.7	100.0	61.	36.	31.	31.	2.0	1068.

LINE	STATION	I	V	M1	M2	M3	M4	Z/1	3/1	4/1	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
105+0N	114+5E	50.	76.	1.0	0.7	0.4	0.4	70.0	40.0	40.0	57.1	57.1	100.0	69.	49.	28.	28.	1.4	955.
105+0N	115+5E	50.	33.	0.6	0.2	0.1	0.0	33.3	18.7	0.0	0.0	50.0	0.0	214.	71.	36.	0.	0.3	414.
105+0N	116+5E	50.	25.	0.3	0.4	0.5	0.8	133.3	166.7	266.7	200.0	125.0	160.0	16.	21.	26.	42.	1.9	314.
105+0N	117+5E	50.	18.	0.7	0.4	0.4	0.5	57.1	57.1	71.4	125.0	100.0	125.0	49.	28.	28.	35.	1.4	226.
105+0N	118+5E	50.	22.	1.1	0.7	0.6	0.6	62.8	54.5	54.5	85.7	85.7	100.0	57.	36.	31.	31.	1.9	276.
105+0N	119+5E	50.	20.	0.9	0.4	0.4	0.6	44.4	44.4	66.7	150.0	100.0	150.0	56.	25.	25.	37.	1.6	251.
105+0N	120+5E	50.	31.	1.1	0.7	0.6	0.6	63.6	54.5	54.5	85.7	85.7	100.0	57.	36.	31.	31.	1.9	389.
105+0N	121+5E	50.	24.	0.6	0.2	0.2	0.4	33.3	33.3	66.7	200.0	100.0	200.0	60.	20.	20.	40.	1.0	301.
105+0N	122+5E	50.	28.	0.1	0.0	0.0	0.2	0.0	0.0	200.0	0.0	0.0	0.0	29.	0.	0.	59.	0.3	352.
105+0N	123+5E	50.	30.	0.3	0.0	0.0	0.1	0.0	0.0	33.3	0.0	0.0	0.0	136.	0.	0.	45.	0.2	377.
105+0N	124+5E	50.	28.	0.2	0.0	0.0	0.2	0.0	0.0	100.0	0.0	0.0	0.0	56.	0.	0.	56.	0.4	352.
107+5N	124+5E	70.	25.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	224.
107+5N	123+5E	70.	43.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.	0.	0.	0.	0.0	386.
107+5N	122+5E	70.	47.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	377.
107+5N	121+5E	70.	27.	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	250.	0.	0.	-0.0	242.
107+5N	120+5E	70.	32.	0.6	0.1	0.0	0.0	16.7	0.0	0.0	0.0	0.0	0.0	375.	63.	0.	0.	0.2	267.
107+5N	119+5E	70.	20.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	179.
107+5N	118+5E	70.	17.	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.	0.	0.	0.	0.0	153.
107+5N	117+5E	70.	43.	-0.7	-0.3	0.0	0.0	42.9	0.0	0.0	0.0	0.0	0.0	269.	115.	0.	0.	-0.3	326.
107+5N	116+5E	70.	68.	-0.5	-0.5	-0.3	0.0	120.0	60.0	0.0	0.0	50.0	0.0	86.	103.	52.	0.	-0.6	610.
107+5N	115+5E	70.	72.	0.3	0.1	0.0	0.0	33.3	0.0	0.0	0.0	0.0	0.0	302.	100.	0.	0.	0.1	646.
107+5N	114+5E	70.	117.	0.3	0.0	0.1	0.2	0.0	33.3	66.7	0.0	0.0	200.0	65.	0.	22.	43.	0.5	1050.
107+5N	113+5E	70.	101.	1.0	3.6	0.5	0.5	40.0	50.0	50.0	83.3	83.3	100.0	61.	37.	30.	30.	1.6	906.
107+5N	112+5E	70.	128.	-0.6	-3.9	-0.6	-0.3	150.0	100.0	50.0	33.3	66.7	50.0	42.	63.	42.	21.	-1.4	1148.
107+5N	111+5E	70.	96.	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.	0.	0.	0.	0.1	851.
107+5N	110+5E	70.	105.	1.1	0.6	0.4	0.5	54.5	36.4	46.5	83.3	66.7	125.0	70.	38.	25.	32.	1.6	942.
107+5N	109+5E	70.	127.	1.6	0.9	0.7	0.6	56.2	43.7	37.5	66.7	77.8	85.7	73.	41.	32.	27.	2.2	1139.
107+5N	108+5E	70.	119.	1.4	3.7	0.6	0.5	50.0	42.9	35.7	71.4	85.7	83.3	76.	38.	33.	27.	1.8	1068.
107+5N	107+5E	70.	123.	1.4	0.8	0.7	0.7	57.1	50.0	50.0	87.5	87.5	100.0	61.	35.	31.	31.	2.3	1103.
107+5N	106+5E	70.	45.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.	0.	0.	0.	0.0	404.
107+5N	105+5E	70.	156.	1.4	0.8	0.7	3.7	57.1	50.0	50.0	87.5	87.5	100.0	61.	35.	31.	31.	2.3	1400.
107+5N	104+5E	70.	107.	1.2	0.5	0.4	0.4	41.7	33.3	33.3	80.0	80.0	100.0	85.	36.	29.	29.	1.4	960.
107+5N	103+5E	70.	165.	0.0	3.0	0.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	63.	0.2	1480.
107+5N	102+5E	70.	204.	1.1	0.6	0.5	0.5	54.5	45.5	45.5	83.3	83.3	100.0	66.	36.	30.	30.	1.7	1830.
107+5N	101+5E	70.	139.	1.6	0.9	0.8	0.7	56.2	50.0	43.7	77.8	88.9	87.5	66.	37.	31.	29.	2.4	1247.
107+5N	100+5E	70.	180.	-0.6	-0.8	-0.6	-0.3	133.3	100.0	50.0	37.5	75.0	50.0	43.	57.	43.	21.	-1.4	1615.
107+5N	99+5E	70.	180.	1.5	1.2	0.9	0.8	62.2	47.4	47.4	66.7	75.0	88.9	66.	42.	31.	28.	2.9	1615.
107+5N	98+5E	60.	186.	2.4	1.6	1.2	1.0	66.7	50.0	41.7	62.5	75.0	83.3	65.	43.	33.	27.	3.7	1947.
107+5N	97+5E	60.	123.	1.7	1.3	1.0	0.8	76.5	58.8	47.1	61.5	78.9	80.0	58.	44.	34.	27.	2.9	1287.
107+5N	96+5E	70.	249.	1.6	1.0	0.8	0.8	62.5	50.0	50.0	80.0	80.0	100.0	61.	38.	30.	30.	2.6	2234.
107+5N	95+5E	70.	186.	2.5	1.2	0.9	0.7	48.0	32.0	28.0	59.3	66.7	87.5	91.	44.	29.	26.	2.7	1669.
107+5N	94+5E	70.	261.	1.3	0.7	0.6	0.6	53.8	46.2	46.2	85.7	85.7	100.0	66.	35.	30.	30.	2.0	2347.
107+5N	93+5E	70.	240.	2.3	1.4	1.1	0.9	60.9	47.8	39.1	64.3	78.6	81.8	69.	42.	33.	27.	3.3	2153.
107+5N	92+5E	70.	210.	2.2	1.2	1.0	0.8	54.5	45.5	36.4	66.7	83.3	80.0	73.	40.	33.	27.	3.0	1884.
107+5N	91+5E	70.	142.	0.5	0.4	0.3	0.1	80.0	60.0	20.0	25.0	75.0	33.0	76.	61.	45.	15.	0.7	1274.
107+5N	90+5E	70.	109.	1.8	1.1	0.8	0.6	61.1	44.4	33.3	54.5	72.7	75.0	75.	46.	33.	25.	2.4	978.
107+5N	89+5E	70.	80.	1.6	0.9	0.6	0.5	50.0	37.5	31.2	62.5	75.0	83.3	83.	42.	31.	26.	1.9	718.
107+5N	88+5E	70.	133.	1.7	0.8	0.6	0.5	47.1	35.3	29.4	62.5	75.0	83.3	88.	41.	31.	26.	1.9	969.
107+5N	87+5E	70.	198.	1.9	1.1	0.8	0.6	57.9	42.1	31.6	54.5	72.7	75.0	79.	45.	33.	25.	2.4	1776.
107+5N	86+5E	70.	166.	1.9	1.1	0.8	0.6	57.9	42.1	31.6	54.5	72.7	75.0	79.	45.	33.	25.	2.4	1485.
107+5N	85+5E	70.	98.	1.6	0.9	0.6	0.4	56.2	37.5	25.0	44.4	66.7	66.7	89.	50.	33.	22.	1.8	819.
107+5N	84+5E	70.	100.	1.7	0.9	0.7	0.6	52.9	41.2	35.3	66.7	77.8	85.7	77.	41.	32.	27.	2.2	897.
107+5N	83+5E	70.	331.	2.4	1.4	1.1	0.9	58.3	45.8	37.5	64.3	78.6	81.8	71.	42.	33.	27.	3.4	2970.
107+5N	82+5E	70.	201.	2.5	1.6	1.2	1.0	64.0	48.0	40.3	62.5	75.0	83.3	68.	43.	32.	27.	3.7	1803.
107+5N	81+5E	70.	303.	2.7	1.7	1.4	1.1	63.0	51.9	43.7	64.7	82.4	78.6	68.	41.	34.	27.	4.1	3499.
107+5N	80+5E	70.	324.	2.9	1.9	1.5	1.3	65.5	51.7	44.8	68.4	78.9	86.7	63.	41.	32.	28.	4.6	2907.

LINE	STATION	I	V	M1	M2	M3	M4	Z/1	3/1	4/1	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
167+5N	75+5E	70.	300.	2.8	1.8	1.4	1.1	64.3	50.0	39.3	61.1	77.8	78.6	67.	43.	34.	26.	4.2	2691.
167+5N	78+5E	70.	324.	3.2	2.1	1.7	1.4	45.6	53.1	43.7	66.7	81.0	82.4	63.	41.	33.	28.	5.1	2907.
167+5N	77+5E	70.	256.	3.2	2.2	1.7	1.4	68.7	53.1	43.7	63.6	77.3	82.4	63.	43.	33.	27.	5.1	2297.
167+5N	75+5E	70.	261.	3.7	2.5	1.9	1.6	67.6	51.4	43.2	64.0	76.0	84.2	64.	43.	33.	27.	5.8	2342.
170+0N	80+5E	50.	572.	2.6	1.7	1.4	1.1	65.4	53.8	42.3	64.7	82.4	78.6	64.	42.	34.	27.	4.1	7184.
170+0N	81+5E	50.	471.	1.9	1.4	1.2	1.0	73.7	63.2	52.6	71.4	85.7	83.3	54.	40.	34.	29.	3.5	5916.
170+0N	82+5E	50.	415.	1.3	1.5	1.2	1.0	115.4	92.3	76.9	66.7	80.0	81.3	38.	44.	35.	29.	3.4	5212.
170+0N	83+5E	50.	291.	2.5	1.6	1.3	1.1	64.0	52.0	44.0	68.8	81.2	84.6	63.	41.	33.	28.	3.9	3655.
170+0N	84+5E	50.	294.	2.6	1.5	1.2	1.1	61.5	46.2	42.3	68.8	75.0	91.7	67.	41.	31.	28.	3.9	3693.
170+0N	85+5E	50.	171.	2.0	1.2	0.9	0.7	60.0	45.0	35.0	58.3	75.0	77.8	74.	44.	33.	26.	2.7	2148.
170+0N	86+5E	50.	63.	1.2	0.5	0.3	0.2	41.7	25.0	16.7	40.0	60.0	66.7	120.	50.	30.	20.	1.0	791.
170+0N	87+5E	50.	52.	1.5	0.7	0.5	0.3	46.7	33.3	20.0	42.9	71.4	60.0	103.	48.	34.	21.	1.5	653.
170+0N	88+5E	50.	110.	2.1	1.3	1.0	0.9	61.9	41.6	42.9	69.2	76.9	90.0	66.	41.	31.	28.	3.2	1387.
170+0N	89+5E	50.	130.	1.9	1.0	0.8	0.7	57.6	47.1	26.8	70.0	80.0	87.5	75.	39.	31.	28.	2.5	1633.
170+0N	90+5E	50.	74.	1.7	1.0	0.8	0.6	58.9	47.1	35.3	60.0	80.0	75.0	73.	43.	34.	26.	2.3	979.
170+0N	91+5E	50.	114.	1.7	0.8	0.6	0.6	47.1	35.3	35.3	75.0	75.0	100.0	81.	38.	29.	24.	2.1	1432.
170+0N	92+5E	50.	153.	1.6	0.9	0.7	0.7	56.2	43.7	43.7	77.8	77.8	100.0	68.	38.	30.	30.	2.4	1922.
170+0N	93+5E	50.	144.	0.8	0.7	0.5	0.6	87.5	62.9	75.0	85.7	71.4	120.0	44.	39.	28.	33.	1.8	1934.
170+0N	94+5E	50.	225.	1.6	1.0	0.8	0.7	62.5	50.0	43.7	70.0	80.0	87.5	65.	40.	32.	28.	2.5	2826.
170+0N	95+5E	50.	165.	1.4	0.8	0.7	0.8	57.1	50.0	57.1	100.0	87.5	114.3	57.	33.	29.	33.	2.4	2072.
170+0N	96+5E	50.	204.	1.7	1.0	0.8	0.7	52.8	47.1	41.2	70.0	80.0	87.5	68.	40.	32.	28.	2.5	2567.
170+0N	97+5E	50.	125.	2.2	1.3	1.1	1.0	59.1	50.0	45.9	76.9	84.6	90.9	64.	38.	32.	29.	3.4	1570.
170+0N	98+5E	50.	123.	0.9	0.3	0.5	0.5	33.3	55.6	55.6	166.7	166.7	100.0	60.	20.	33.	33.	1.5	1545.
170+0N	99+5E	170.	309.	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	250.	0.	0.	0.0	1141.
170+0N	100+5E	50.	121.	1.3	0.6	0.6	0.6	46.2	46.2	46.2	100.0	100.0	100.0	67.	31.	31.	31.	1.9	1670.
170+0N	101+5E	70.	155.	0.9	0.4	0.3	0.4	44.4	33.3	44.4	100.0	75.0	133.3	74.	33.	25.	33.	1.2	1391.
170+0N	102+5E	70.	201.	1.5	0.9	0.7	0.6	60.0	46.7	40.0	66.7	77.8	85.7	69.	41.	32.	28.	2.2	1803.
170+0N	103+5E	70.	132.	0.3	0.2	0.2	0.3	66.7	66.7	100.0	150.0	100.0	150.0	38.	26.	26.	38.	0.8	1184.
170+0N	104+5E	70.	150.	1.0	0.6	0.5	0.5	60.0	50.0	50.0	83.3	83.3	100.0	61.	37.	30.	30.	1.6	1346.
170+0N	105+5E	70.	90.	1.2	0.6	0.5	0.5	50.0	41.7	41.7	83.3	83.3	100.0	71.	36.	30.	30.	1.7	807.
170+0N	106+5E	70.	53.	0.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	192.	0.	0.	31.	0.3	610.
170+0N	107+5E	70.	90.	0.5	0.0	0.1	0.1	0.0	0.0	20.0	20.0	0.0	0.0	100.0	167.	0.	29.	0.3	207.
170+0N	108+5E	70.	82.	2.0	1.4	1.2	1.2	70.0	60.0	60.0	85.7	85.7	100.0	52.	36.	31.	31.	3.0	730.
170+0N	109+5E	70.	70.	1.2	0.7	0.5	0.4	58.3	41.7	33.3	57.1	71.4	80.0	77.	45.	32.	26.	1.6	628.
170+0N	110+5E	70.	68.	-1.5	-1.3	-0.9	-0.4	86.7	60.0	26.7	30.8	69.2	44.4	69.	60.	41.	18.	-2.2	610.
170+0N	111+5E	70.	99.	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.	0.	0.	0.	0.1	888.
170+0N	112+5E	70.	70.	1.2	0.6	0.3	0.3	50.0	25.0	25.0	50.0	50.0	100.0	100.	50.	25.	25.	1.2	674.
170+0N	113+5E	60.	85.	-0.4	-0.6	-0.5	-0.2	150.0	125.0	50.0	33.3	83.3	40.0	38.	58.	48.	19.	-1.0	893.
170+0N	114+5E	70.	90.	1.4	0.8	0.7	0.7	57.1	50.0	50.0	87.5	87.5	100.0	61.	55.	31.	31.	2.3	807.
170+0N	115+5E	70.	194.	0.6	0.1	0.1	0.2	16.7	16.7	23.3	200.0	100.0	200.0	107.	18.	16.	36.	0.6	933.
170+0N	116+5E	70.	186.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	1669.
170+0N	117+5E	70.	117.	-0.2	0.0	-0.1	0.0	0.0	50.0	0.0	0.0	0.0	0.0	167.	0.	33.	0.	-0.1	1050.
170+0N	118+5E	70.	150.	-0.4	-0.6	-0.4	-0.1	150.0	100.0	25.0	16.7	66.7	25.0	50.	75.	50.	13.	-0.8	1346.
170+0N	119+5E	60.	73.	-0.4	-0.6	-0.4	-0.2	150.0	100.0	50.0	33.3	66.7	50.0	42.	63.	42.	21.	-1.0	764.
170+0N	120+5E	70.	75.	-0.5	-0.7	-0.5	-0.3	140.0	100.0	60.0	42.9	71.4	60.0	40.	56.	40.	24.	-1.3	673.
170+0N	121+5E	70.	82.	-0.2	-0.4	-0.3	0.0	200.0	150.0	0.0	0.0	75.0	0.0	45.	91.	68.	0.	-0.4	736.
170+0N	122+5E	70.	60.	-0.4	-0.7	-0.5	-0.3	175.0	125.0	75.0	42.9	71.4	60.0	32.	56.	40.	24.	-1.2	528.
170+0N	123+5E	60.	22.	-0.2	-0.5	-0.3	-0.1	250.0	150.0	50.0	20.0	60.0	33.3	31.	78.	47.	16.	-0.6	233.
170+0N	124+5E	50.	23.	-0.3	-0.5	-0.3	-0.1	166.7	100.0	33.3	20.0	60.0	33.3	45.	76.	45.	15.	-0.7	289.
171+5N	79+5E	70.	189.	3.1	2.3	1.8	1.5	74.2	58.1	48.4	65.2	78.3	83.3	58.	43.	33.	28.	5.4	1696.
171+5N	78+5E	70.	241.	3.2	2.2	1.8	1.4	68.7	56.3	43.7	63.6	81.8	77.8	62.	42.	35.	27.	5.2	2162.
171+5N	77+5E	70.	150.	2.9	1.9	1.4	1.1	65.5	48.3	37.4	57.7	73.7	78.6	69.	45.	33.	26.	4.2	1346.
171+5N	76+5E	70.	415.	3.0	1.9	1.5	1.3	63.3	50.0	43.3	68.4	78.9	86.7	65.	41.	32.	28.	4.6	3723.
171+5N	75+5E	80.	220.	2.3	1.4	1.0	0.8	60.9	43.5	34.8	57.1	71.4	80.0	74.	45.	32.	26.	3.1	1727.
171+5N	74+5E	70.	89.	2.0	1.1	0.8	0.7	55.0	40.0	25.0	63.6	72.7	87.5	77.	42.	31.	27.	2.6	798.

LINE	STATION	I	V	M1	M2	M3	M4	2/1	3/1	4/1	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
191+5N	73+5E	70.	218.	2.4	1.5	1.1	0.9	62.5	45.8	37.5	60.0	73.3	81.8	71.	44.	32.	26.	3.4	1956.
191+5N	72+5E	70.	55.	1.6	0.8	0.9	0.4	50.0	31.2	25.0	50.0	62.5	80.0	95.	48.	30.	26.	1.7	493.
191+5N	71+5E	70.	60.	1.5	0.7	0.6	0.3	46.7	40.0	20.0	42.9	85.7	50.0	97.	45.	39.	19.	1.5	538.
191+5N	70+5E	70.	62.	1.8	0.9	0.7	0.5	50.0	38.9	27.8	55.6	77.8	71.4	87.	43.	34.	24.	2.1	556.
192+5N	100+5E	50.	70.	0.9	0.4	0.5	0.5	44.4	55.6	55.6	125.0	125.0	100.0	58.	26.	32.	32.	1.5	879.
192+5N	99+5E	50.	70.	0.9	0.4	0.4	0.4	44.4	44.4	44.4	100.0	100.0	100.0	69.	31.	31.	31.	1.3	979.
192+5N	98+5E	50.	71.	1.5	1.0	0.8	0.7	46.7	53.3	46.7	70.0	80.0	87.5	61.	41.	33.	28.	2.5	892.
192+5N	97+5E	50.	99.	1.1	0.6	0.6	0.6	54.5	54.5	54.5	100.0	100.0	100.0	58.	32.	32.	32.	1.9	1243.
192+5N	96+5E	50.	66.	1.2	0.6	0.6	0.5	50.0	50.0	41.7	83.3	100.0	83.3	68.	34.	34.	28.	1.8	879.
192+5N	95+5E	50.	68.	1.0	0.6	0.6	0.5	60.0	60.0	50.0	83.3	100.0	83.3	58.	35.	35.	29.	1.7	854.
192+5N	94+5E	50.	142.	1.7	1.0	0.9	0.8	58.8	52.9	47.1	80.0	90.0	88.9	62.	36.	33.	29.	2.7	1784.
192+5N	93+5E	50.	77.	1.8	1.0	0.7	0.6	55.6	39.9	31.3	60.0	70.0	85.7	79.	44.	31.	26.	2.3	967.
192+5N	92+5E	50.	70.	1.9	1.2	0.9	0.8	62.2	47.4	42.1	66.7	75.0	80.9	66.	42.	31.	28.	2.9	819.
192+5N	91+5E	50.	79.	1.6	0.9	0.7	0.6	56.2	43.7	37.5	56.7	77.8	85.7	73.	41.	32.	27.	2.2	992.
192+5N	90+5E	50.	89.	1.9	1.1	0.8	0.7	57.9	42.1	36.8	63.6	72.7	87.5	74.	43.	31.	27.	2.6	1110.
192+5N	89+5E	50.	123.	1.9	1.0	0.8	0.6	57.6	42.1	31.6	60.0	80.0	75.0	80.	42.	34.	25.	2.4	1545.
192+5N	88+5E	50.	38.	1.6	1.5	1.6	1.7	53.7	100.0	106.2	113.3	106.7	106.2	33.	30.	33.	35.	4.9	477.
192+5N	87+5E	50.	162.	1.5	1.1	0.8	0.7	57.9	42.1	36.8	63.6	72.7	87.5	74.	43.	31.	27.	2.6	2035.
192+5N	86+5E	50.	142.	1.8	1.2	1.0	0.7	66.7	55.6	38.9	58.3	83.3	70.0	65.	43.	36.	25.	2.8	1784.
192+5N	85+5E	50.	180.	2.3	1.4	1.1	0.9	60.9	47.8	39.1	64.3	73.6	81.8	69.	42.	33.	27.	3.3	2261.
192+5N	84+5E	50.	109.	2.2	1.4	1.1	0.9	63.6	50.0	40.9	64.3	78.6	81.8	66.	42.	33.	27.	3.3	1369.
192+5N	83+5E	50.	112.	2.7	1.4	1.1	0.9	63.6	50.0	40.9	64.3	78.6	81.8	66.	42.	33.	27.	3.3	1407.
192+5N	82+5E	50.	117.	1.6	0.9	0.9	0.9	56.2	56.2	56.2	100.0	100.0	100.0	56.	32.	32.	32.	2.8	1470.
192+5N	81+5E	50.	153.	2.8	1.8	1.4	1.2	64.3	50.0	42.9	66.7	77.8	85.7	65.	42.	32.	28.	4.3	1927.
192+5N	80+5E	50.	98.	2.6	1.7	1.3	1.1	65.4	50.0	42.3	64.7	76.5	84.6	65.	43.	33.	28.	4.0	1231.
213+5N	93+5E	50.	34.	2.0	1.0	0.9	0.7	50.0	45.0	35.0	70.0	90.0	77.8	76.	38.	34.	27.	2.6	427.
213+5N	92+5E	50.	47.	2.1	1.9	1.7	1.8	90.5	81.0	85.7	94.7	89.5	105.9	39.	35.	31.	33.	5.4	590.
213+5N	91+5E	50.	35.	1.6	0.9	0.6	0.6	56.2	37.5	37.5	66.7	66.7	100.0	75.	42.	28.	28.	2.1	440.
213+5N	90+5E	50.	37.	2.1	1.2	0.8	0.6	57.1	36.1	28.6	50.0	66.7	75.0	84.	48.	32.	24.	2.5	465.
213+5N	89+5E	50.	34.	1.8	0.8	0.5	0.3	44.4	27.8	18.7	37.5	62.5	60.0	115.	51.	32.	19.	1.6	427.
213+5N	88+5E	50.	29.	1.7	0.9	0.7	0.5	52.9	41.2	29.4	55.6	77.8	71.4	83.	44.	34.	24.	2.1	364.
213+5N	87+5E	50.	24.	1.7	1.0	0.6	0.6	58.8	35.3	35.3	60.0	60.0	100.0	78.	46.	28.	28.	2.2	301.
213+5N	86+5E	50.	27.	2.2	0.9	0.6	0.5	40.9	27.3	22.7	55.6	66.7	83.3	106.	43.	29.	24.	2.1	339.
213+5N	85+5E	50.	30.	2.8	1.9	1.3	1.2	67.9	46.4	42.9	63.2	68.4	92.3	65.	44.	30.	28.	4.3	377.
213+5N	84+5E	50.	30.	2.7	1.5	1.4	1.1	55.6	51.9	40.7	73.3	93.3	78.6	67.	37.	35.	27.	4.0	377.
213+5N	83+5E	50.	31.	2.9	1.8	1.4	1.2	62.1	48.3	41.4	66.7	77.8	85.7	67.	41.	32.	28.	4.3	389.
213+5N	82+5E	50.	17.	2.5	1.5	1.1	0.9	60.0	44.0	36.0	60.0	73.3	81.8	73.	44.	32.	26.	3.4	214.
213+5N	81+5E	50.	29.	4.4	3.1	2.7	2.3	70.5	61.4	52.3	74.2	87.1	85.2	55.	39.	34.	29.	8.0	364.
213+5N	80+5E	50.	22.	2.0	1.3	1.1	1.2	65.0	55.0	60.0	92.3	84.6	109.1	54.	35.	30.	32.	3.7	278.
213+5N	79+5E	50.	24.	1.6	0.9	0.7	0.6	56.2	43.7	37.5	66.7	77.8	85.7	73.	41.	32.	27.	2.2	301.
215+0N	80+5E	70.	18.	1.4	0.8	0.5	0.4	57.1	35.7	28.6	50.0	62.5	80.0	85.	49.	30.	24.	1.6	161.
215+0N	79+5E	70.	21.	2.1	1.2	0.9	0.7	57.1	42.9	33.3	58.3	75.0	77.8	77.	44.	33.	26.	2.7	188.
215+0N	78+5E	70.	15.	2.0	1.3	0.9	0.7	65.0	45.0	35.0	53.0	69.2	77.8	72.	47.	33.	25.	2.8	135.
215+0N	77+5E	70.	14.	1.9	1.1	0.8	0.7	57.9	42.1	36.8	63.6	72.7	87.5	74.	43.	31.	27.	2.6	126.
215+0N	76+5E	70.	17.	1.9	1.1	0.8	0.6	57.9	42.1	31.6	54.5	72.7	75.0	79.	45.	33.	25.	2.4	153.
215+0N	75+5E	100.	19.	2.8	1.8	1.3	1.1	64.3	46.4	39.3	61.1	72.2	84.6	69.	44.	32.	27.	4.1	119.
215+0N	74+5E	100.	22.	2.0	1.1	0.8	0.6	55.0	40.0	30.0	54.5	72.7	75.0	82.	45.	33.	25.	2.4	138.
217+5N	74+5E	100.	64.	2.9	1.9	1.5	1.3	65.5	51.7	44.8	68.4	78.9	86.7	63.	41.	32.	28.	4.6	402.
217+5N	73+5E	100.	24.	2.5	1.5	0.9	0.6	60.0	36.0	24.0	40.0	60.0	66.7	90.	54.	32.	22.	2.8	151.
217+5N	72+5E	100.	15.	2.1	1.2	0.9	0.7	57.1	42.9	33.3	58.3	75.0	77.8	77.	44.	33.	26.	2.7	94.
217+5N	71+5E	100.	16.	2.9	1.9	1.4	1.1	65.5	48.3	37.9	57.9	73.7	78.6	69.	45.	33.	26.	4.2	100.
217+5N	70+5E	100.	19.	1.5	0.6	0.4	0.3	40.0	20.7	20.0	50.0	66.7	75.0	112.	45.	30.	22.	1.3	119.
217+5N	69+5E	100.	36.	1.9	1.1	0.6	0.8	57.9	42.1	42.1	72.7	72.7	100.0	69.	40.	29.	29.	2.7	226.

LINE	STATION	T	V	M1	M2	M3	M4	2/1	3/1	4/1	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
217+5N	80+9E	100.	42.	1.3	1.2	0.9	0.4	52.3	69.2	30.8	33.3	75.0	44.4	62.	57.	43.	19.	2.1	264.
213+5N	75+5E	100.	40.	1.8	1.7	1.4	1.2	54.4	77.8	66.7	70.6	82.4	85.7	44.	42.	34.	29.	4.1	251.
213+5N	78+5E	100.	30.	2.2	1.3	1.0	0.7	59.1	45.5	21.8	53.8	76.9	70.0	76.	45.	35.	24.	2.9	188.
213+5N	76+5E	100.	16.	4.4	3.1	2.6	2.1	70.5	59.1	47.7	67.7	83.9	80.8	58.	41.	34.	28.	7.6	100.
213+5N	75+5E	100.	26.	2.1	1.4	1.0	0.9	60.7	47.6	42.9	64.3	71.4	90.0	65.	43.	31.	28.	3.2	163.
213+5N	74+5E	100.	26.	1.8	0.7	0.3	0.1	38.9	16.7	5.6	14.3	42.9	33.3	173.	67.	29.	10.	1.0	163.
213+5N	73+5E	100.	27.	1.4	0.9	0.7	0.3	64.3	50.0	21.4	33.3	77.8	42.9	83.	54.	42.	18.	1.7	170.
213+5N	74+5E	100.	30.	3.1	2.1	1.6	1.4	67.7	51.6	45.2	66.7	76.2	87.5	62.	42.	32.	28.	5.0	188.
213+5N	75+5E	100.	19.	2.2	1.4	1.1	0.9	63.6	50.0	40.9	64.3	78.5	81.8	66.	42.	33.	27.	3.3	119.
213+5N	76+5E	100.	20.	1.7	0.8	0.6	0.6	47.1	47.1	35.3	75.0	100.0	75.0	75.	35.	35.	27.	2.3	126.
213+5N	77+5E	100.	19.	1.8	1.1	0.7	0.5	61.1	38.9	27.8	45.5	63.6	71.4	83.	51.	32.	23.	2.2	119.
213+5N	78+5E	100.	24.	2.1	1.3	0.9	0.7	61.9	42.9	33.3	53.8	69.2	77.8	76.	47.	32.	25.	2.8	151.
222+5N	95+5E	100.	21.	2.2	1.1	0.5	0.7	50.0	40.9	31.8	63.6	81.8	77.8	81.	40.	33.	26.	2.7	132.
222+5N	94+5E	100.	16.	0.5	0.2	-0.1	-0.2	40.0	-20.0	-40.0	-100.0	-50.0	200.0	-227.	-91.	45.	91.	-0.2	226.
222+5N	93+5E	100.	57.	1.5	0.8	0.5	0.4	53.3	33.3	28.7	50.0	62.5	80.0	90.	48.	30.	24.	1.7	358.
222+5N	92+5E	100.	74.	2.1	1.2	0.5	0.7	57.1	42.9	33.3	58.3	75.0	77.8	77.	44.	33.	26.	2.7	465.
222+5N	91+5E	100.	85.	1.9	1.1	0.8	0.7	57.9	42.1	35.8	63.6	72.7	87.5	74.	43.	31.	27.	2.6	594.
222+5N	90+5E	100.	123.	2.2	1.9	1.0	0.9	86.4	45.5	40.9	47.4	52.6	90.0	64.	55.	29.	26.	3.4	772.
222+5N	89+5E	100.	79.	1.9	1.1	0.9	0.9	57.9	47.4	47.4	81.8	81.8	100.0	64.	37.	30.	30.	3.0	495.
222+5N	88+5E	100.	136.	1.7	1.0	0.7	0.6	58.8	41.2	35.3	60.0	70.0	85.7	75.	44.	31.	27.	2.3	854.
222+5N	87+5E	100.	160.	1.7	0.9	0.6	0.5	52.9	35.3	29.4	55.6	66.7	83.3	86.	45.	30.	25.	2.0	1005.
222+5N	85+5E	100.	149.	1.9	1.1	0.7	0.6	57.9	35.8	21.6	54.5	63.6	85.7	81.	47.	30.	26.	2.3	1055.
222+5N	85+5E	100.	150.	1.7	0.9	0.5	0.5	52.9	29.4	29.4	55.6	55.6	100.0	89.	47.	26.	26.	1.9	942.

SS16

LINE	STATION	I	V	M1	M2	M3	M4	2/I	3/I	4/I	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
N = 1 A = 100. TP = 20. TC = 15.																			
105+CN	100+5E	50.	163.	1.0	0.7	0.3	0.2	70.0	30.0	20.0	28.6	42.9	56.7	96.	67.	29.	15.	1.0	2047.
105+CN	101+5E	50.	159.	0.8	0.4	0.2	0.4	50.0	37.5	50.0	100.0	75.0	133.3	67.	39.	25.	33.	1.2	1997.
105+CN	102+5E	50.	260.	0.7	0.3	0.3	0.3	42.9	42.9	42.9	100.0	100.0	100.0	71.	31.	31.	31.	1.0	3266.
105+CN	103+5E	50.	210.	0.9	0.7	0.4	0.3	77.8	44.4	33.3	42.9	57.1	75.0	71.	56.	32.	24.	1.3	2678.
105+CN	104+5E	50.	309.	1.1	0.6	0.6	0.6	54.5	54.5	54.5	100.0	100.0	100.0	58.	32.	32.	32.	1.9	3768.
105+CN	105+5E	50.	306.	0.2	0.0	0.2	0.1	0.0	100.0	50.0	0.0	0.0	50.0	56.	0.	56.	28.	0.4	3843.
105+CN	106+5E	50.	300.	0.3	0.0	0.0	0.1	0.0	0.0	33.3	0.0	0.0	0.0	136.	0.	0.	45.	0.2	3769.
105+CN	107+5E	50.	254.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	3190.
105+CN	108+5E	55.	204.	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	63.	0.7	2329.
105+CN	109+5E	55.	180.	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	63.	-0.2	2055.
105+CN	110+5E	50.	57.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	716.
105+CN	111+5E	55.	70.	0.1	0.0	0.0	0.1	0.0	0.0	100.0	0.0	0.0	0.0	56.	0.	0.	56.	0.2	799.
105+CN	112+5E	60.	95.	0.1	0.0	0.2	0.2	0.0	200.0	200.0	0.0	0.0	100.0	20.	0.	40.	40.	0.5	974.
105+CN	113+5E	60.	103.	-0.1	-0.3	-0.2	0.0	300.0	200.0	0.0	0.0	66.7	0.0	33.	100.	67.	0.	-0.3	1078.
105+CN	114+5E	90.	77.	-1.4	-1.1	-0.7	-0.3	78.6	50.0	71.4	27.3	61.6	42.9	80.	63.	40.	17.	-1.8	967.
105+CN	115+5E	50.	70.	-0.3	-0.2	-0.3	-0.3	66.7	100.0	150.0	150.0	150.0	100.0	35.	23.	35.	35.	-0.9	879.
105+CN	116+5E	50.	95.	-0.4	-0.5	-0.4	-0.1	125.0	100.0	25.0	20.0	89.0	25.0	57.	66.	53.	13.	-0.8	1193.
105+CN	117+5E	60.	70.	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	63.	-0.2	733.
105+CN	118+5E	60.	69.	0.2	0.1	0.1	0.4	50.0	50.0	200.0	400.0	100.0	400.0	25.	13.	13.	50.	0.8	772.
105+CN	119+5E	60.	60.	1.2	1.0	0.9	0.6	83.3	75.0	50.0	60.0	90.0	66.7	52.	43.	39.	26.	2.3	678.
105+CN	120+5E	60.	55.	4.8	3.9	3.5	3.2	81.2	72.9	65.7	82.1	87.7	91.4	46.	37.	34.	31.	10.4	576.
105+CN	121+5E	60.	84.	7.0	5.8	5.1	4.4	82.9	72.9	62.9	75.9	87.9	86.3	47.	39.	34.	30.	14.8	879.
105+CN	122+5E	60.	64.	5.7	4.7	4.1	3.5	82.5	71.9	61.4	74.5	87.2	85.4	48.	39.	34.	25.	11.9	670.
105+CN	123+5E	65.	130.	5.5	4.4	3.8	3.3	60.0	65.1	60.0	75.0	66.4	86.8	49.	34.	34.	30.	11.2	1256.
105+CN	124+5E	50.	207.	4.6	3.6	3.1	2.8	76.3	67.4	60.9	77.8	86.1	90.3	49.	39.	33.	30.	9.3	2600.
N = 1 A = 100. TP = 20. TC = 20.																			
105+CN	120+5E	60.	59.	3.5	3.8	3.9	3.6	108.0	111.4	102.9	94.7	102.6	92.3	32.	34.	35.	32.	11.1	618.
N = 1 A = 100. TP = 20. TC = 30.																			
105+CN	120+5E	60.	60.	3.4	2.9	2.7	2.1	85.3	79.4	61.8	72.4	93.1	77.8	46.	39.	37.	29.	7.4	628.
N = 1 A = 100. TP = 20. TC = 40.																			
105+CN	121+5E	60.	84.	5.8	5.7	5.0	4.4	58.3	86.2	75.9	77.2	87.7	88.0	40.	39.	35.	30.	14.5	879.
N = 1 A = 100. TP = 20. TC = 120.																			
105+CN	121+5E	60.	84.	5.3	5.3	4.9	4.4	100.0	92.5	83.0	83.0	92.5	89.8	37.	37.	35.	31.	14.1	879.
N = 1 A = 100. TP = 20. TC = 30.																			
105+CN	121+5E	60.	84.	5.0	4.9	4.5	4.1	58.0	90.0	82.0	83.7	91.8	91.1	38.	37.	34.	31.	13.1	879.
N = 1 A = 100. TP = 20. TC = 60.																			
105+CN	122+5E	60.	66.	4.5	4.6	4.0	3.5	102.2	88.9	77.8	76.1	87.0	87.5	39.	40.	35.	30.	11.5	651.
N = 1 A = 100. TP = 20. TC = 120.																			
105+CN	122+5E	60.	65.	4.3	4.2	3.9	3.4	97.7	90.7	75.1	81.0	92.9	87.2	39.	38.	35.	31.	11.1	680.
N = 1 A = 100. TP = 20. TC = 30.																			
105+CN	122+5E	60.	65.	4.1	4.0	3.6	3.3	97.6	161.0	80.5	82.5	165.0	50.0	32.	31.	51.	25.	13.0	680.
N = 1 A = 100. TP = 20. TC = 60.																			
105+CN	123+5E	65.	131.	4.7	4.7	4.1	3.6	100.0	87.2	76.6	76.6	87.2	87.8	40.	40.	35.	30.	11.9	1266.
N = 1 A = 100. TP = 20. TC = 120.																			
105+CN	123+5E	65.	131.	4.6	4.6	4.1	3.7	100.0	89.1	80.4	80.4	89.1	90.2	38.	38.	34.	31.	12.0	1266.

LINE	STATION	T	V	M1	M2	M3	M4	2/1	3/1	4/1	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
107+5N	102+5E	50.	357.	0.5	0.1	0.1	0.3	20.0	20.0	60.0	300.0	100.0	300.0	71.	14.	14.	43.	0.7	4484.
107+5N	101+5E	50.	270.	0.3	0.2	0.2	0.2	66.7	66.7	66.7	100.0	100.0	100.0	48.	32.	32.	32.	0.6	3391.
107+5N	100+5E	50.	300.	0.6	0.1	0.1	0.2	16.7	16.7	33.3	200.0	100.0	200.0	107.	18.	18.	36.	0.6	3768.
170+0N	100+5E	50.	300.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	3768.
170+0N	101+5E	50.	309.	0.6	0.2	0.2	0.3	33.3	33.3	50.0	150.0	100.0	150.0	71.	24.	24.	36.	0.8	3681.
170+0N	102+5E	50.	249.	1.1	0.9	0.4	0.4	81.8	36.4	36.4	44.4	44.4	100.0	71.	58.	26.	26.	1.5	3127.
170+0N	103+5E	50.	261.	1.0	0.8	0.3	0.2	60.0	30.0	20.0	25.0	37.5	66.7	93.	74.	28.	15.	1.1	3278.
170+0N	104+5E	50.	318.	0.8	0.6	0.4	0.2	75.0	50.0	25.0	33.3	66.7	50.0	77.	58.	38.	19.	1.0	3994.
170+0N	105+5E	50.	294.	0.3	0.0	0.0	0.1	0.0	0.0	11.3	0.0	0.0	0.0	136.	0.	0.	45.	0.2	3653.
170+0N	106+5E	50.	107.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	3.0	1344.
170+0N	107+5E	50.	324.	0.7	0.2	0.3	0.3	28.6	42.9	42.9	150.0	150.0	100.0	74.	21.	32.	32.	0.9	4069.
170+0N	108+5E	50.	150.	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	63.	0.2	1884.
170+0N	109+5E	50.	103.	-0.7	-0.8	-0.4	0.3	116.3	57.1	0.0	0.0	50.0	0.0	90.	103.	51.	0.	-0.8	1294.
170+0N	110+5E	50.	93.	0.8	0.5	0.5	0.6	62.5	62.5	75.0	120.0	100.0	120.0	47.	29.	29.	35.	1.7	1148.
170+0N	111+5E	50.	51.	0.1	0.0	0.2	0.3	0.0	200.0	303.0	0.0	0.0	150.0	15.	0.	30.	45.	0.7	641.
170+0N	112+5E	50.	67.	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	47.	0.3	842.
170+0N	113+5E	20.	75.	0.4	0.3	0.5	0.7	50.0	83.3	116.7	233.3	166.7	140.0	34.	17.	28.	40.	1.8	2355.
170+0N	114+5E	20.	87.	0.3	0.0	0.0	0.1	0.0	0.0	33.3	0.0	0.0	0.0	136.	0.	0.	45.	0.2	2737.
170+0N	115+5E	20.	79.	1.5	1.5	1.1	0.6	150.0	73.3	40.0	40.0	73.3	54.5	55.	55.	40.	27.	2.7	2431.
170+0N	116+5E	20.	102.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	3203.
170+0N	117+5E	20.	123.	-0.5	-1.1	-0.7	-0.4	122.2	77.8	44.4	36.4	63.6	57.1	40.	60.	35.	22.	-1.2	3867.
170+0N	118+5E	20.	111.	1.2	1.3	0.9	0.5	108.3	75.0	41.7	36.5	83.2	55.6	53.	57.	39.	22.	2.3	3485.
170+0N	119+5E	20.	137.	-0.3	-0.4	-0.1	0.0	123.8	33.3	0.0	0.0	25.0	0.0	100.	133.	33.	0.	-0.3	4302.
170+0N	120+5E	20.	101.	0.5	0.7	0.4	0.1	140.0	80.0	20.0	16.8	57.1	25.0	58.	81.	47.	17.	0.5	3171.
170+0N	121+5E	20.	52.	0.2	0.0	0.0	0.2	0.0	0.0	100.0	0.0	0.0	0.0	56.	0.	0.	56.	0.4	2839.
170+0N	122+5E	20.	53.	1.6	1.3	1.1	1.3	88.8	68.8	81.2	118.2	100.0	118.2	43.	30.	30.	35.	3.7	2920.
170+0N	123+5E	20.	73.	3.9	3.0	2.7	2.5	76.9	65.2	64.1	83.3	90.0	92.6	48.	37.	33.	31.	8.1	2297.
170+0N	124+5E	50.	70.	5.1	4.2	3.6	2.9	82.4	70.6	56.9	69.0	95.7	80.6	50.	41.	35.	28.	10.2	879.
172+5N	124+5E	50.	88.	0.6	0.4	0.2	0.1	66.7	33.3	16.7	25.0	50.0	50.0	100.	67.	33.	17.	0.6	1105.
172+5N	123+5E	50.	105.	0.5	0.1	0.2	0.4	20.0	40.0	80.0	400.0	200.0	200.0	53.	11.	21.	43.	0.5	1369.
172+5N	122+5E	50.	124.	-0.1	-0.9	-0.6	-0.2	128.6	85.7	29.6	27.2	66.7	33.3	54.	69.	46.	15.	-1.3	1557.
172+5N	121+5E	50.	130.	-0.3	-0.7	-0.1	-0.1	86.7	33.3	33.3	50.0	50.0	100.0	79.	53.	26.	28.	-0.4	1631.
172+5N	120+5E	50.	143.	-0.4	-0.6	-0.3	-0.1	150.0	75.0	25.0	16.7	50.0	33.3	56.	83.	42.	14.	-0.7	1796.
172+5N	119+5E	50.	79.	-1.6	-1.5	-1.1	-0.7	93.7	68.8	43.7	46.7	73.3	63.6	55.	51.	38.	24.	-2.9	997.
172+5N	118+5E	50.	98.	-0.1	-0.1	-0.2	0.0	100.0	200.0	0.0	0.0	200.0	0.0	45.	45.	51.	0.	-0.2	1731.
172+5N	117+5E	50.	64.	-0.9	-1.0	-0.7	-0.4	111.1	77.8	44.4	40.0	70.0	57.1	51.	56.	39.	27.	-1.8	804.
172+5N	116+5E	50.	123.	-0.4	-0.8	-0.6	-0.4	200.0	150.0	100.0	50.0	75.0	66.7	26.	53.	39.	26.	-1.5	1545.
172+5N	115+5E	50.	110.	0.3	0.0	0.0	0.1	0.0	0.0	33.3	0.0	0.0	0.0	136.	0.	0.	45.	0.2	1382.
172+5N	114+5E	50.	168.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	2113.
172+5N	113+5E	50.	107.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	1254.
172+5N	112+5E	50.	92.	0.5	0.1	0.1	0.2	20.0	20.0	40.0	200.0	100.0	200.0	93.	19.	19.	37.	0.5	1156.
172+5N	111+5E	50.	47.	0.6	0.1	0.2	0.3	16.7	33.3	50.0	300.0	200.0	150.0	75.	13.	25.	38.	0.8	502.
172+5N	110+5E	50.	43.	0.5	0.0	0.1	0.3	0.0	20.0	0.0	0.0	0.0	300.0	76.	0.	15.	45.	0.7	540.
172+5N	109+5E	50.	50.	0.3	0.3	0.2	0.3	100.0	66.7	100.0	100.0	66.7	150.0	37.	37.	24.	37.	0.3	628.
172+5N	108+5E	50.	83.	1.0	1.1	0.9	0.8	61.1	50.0	44.4	72.7	81.8	88.9	64.	39.	32.	25.	2.8	1042.
172+5N	107+5E	50.	65.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	816.
172+5N	106+5E	50.	123.	1.2	0.6	0.6	0.7	50.0	50.0	58.3	116.7	100.0	116.7	58.	29.	29.	34.	2.1	1545.
172+5N	105+5E	50.	150.	0.6	0.7	0.4	0.3	67.5	50.0	37.5	42.9	57.1	75.0	65.	56.	32.	24.	1.2	1884.
172+5N	104+5E	50.	210.	0.1	0.1	0.0	0.1	100.0	0.0	100.0	100.0	0.0	0.0	45.	45.	0.	45.	0.2	2639.
172+5N	103+5E	50.	246.	0.4	0.6	0.4	0.2	150.0	100.0	50.0	33.3	66.7	50.0	42.	63.	42.	21.	1.0	3090.
172+5N	102+5E	50.	319.	1.5	2.0	0.6	0.6	137.3	40.0	40.0	20.0	30.0	100.0	59.	79.	24.	24.	2.5	3994.
172+5N	101+5E	50.	264.	1.5	1.1	0.5	0.8	57.9	47.4	42.1	72.7	81.8	88.9	67.	39.	32.	28.	2.0	3316.
172+5N	100+5E	50.	230.	1.7	1.1	0.9	0.7	64.7	52.9	41.2	63.6	81.8	77.8	65.	42.	34.	27.	2.6	2869.
175+0N	100+5E	40.	180.	2.0	1.2	1.1	1.0	40.0	50.0	50.0	83.3	91.7	90.9	60.	36.	33.	30.	3.4	2870.

LINE	STATION	I	V	M1	M2	M3	M4	Z/1	Z/1	Z/1	Z/2	Z/2	Z/3	Z/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
175+CN	101+SE	40.	210.	1.5	1.1	0.9	0.8	57.9	47.4	42.1	72.7	81.8	88.9	67.	39.	32.	28.	2.8	3297.	
175+CN	102+SE	40.	255.	1.9	1.3	1.1	1.0	68.4	57.9	52.6	76.9	84.6	90.9	56.	38.	33.	30.	3.4	4004.	
175+CN	103+SE	40.	185.	1.5	1.0	0.8	0.8	66.7	53.2	53.3	80.0	80.0	100.0	57.	38.	31.	31.	2.6	2591.	
175+CN	104+SE	50.	195.	1.5	0.9	0.7	0.7	60.0	46.7	46.7	77.8	77.8	100.0	64.	38.	30.	30.	2.3	2449.	
175+CN	105+SE	45.	100.	1.8	1.1	0.9	0.7	61.1	50.0	38.9	63.6	81.8	77.8	68.	42.	34.	27.	2.6	1396.	
175+CN	106+SE	45.	88.	0.0	-0.3	-0.1	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.	150.	50.	0.	-0.7	1278.	
175+CN	107+SE	50.	80.	0.5	0.2	0.3	0.3	40.0	60.0	60.0	150.0	150.0	100.0	56.	22.	33.	33.	0.9	1005.	
175+CN	108+SE	50.	58.	1.2	0.7	0.5	0.5	58.3	41.7	41.7	71.4	71.4	100.0	70.	41.	29.	29.	1.7	128.	
175+CN	103+SE	45.	40.	0.7	0.3	0.3	0.4	42.9	42.9	57.1	133.3	100.0	133.3	61.	26.	26.	35.	1.1	558.	
175+CN	110+SE	10.	20.	1.7	0.9	0.7	0.5	52.9	41.2	29.4	55.6	77.8	71.4	83.	44.	34.	24.	2.1	1256.	
175+CN	111+SE	10.	15.	1.5	1.0	0.7	0.6	66.7	46.7	40.0	60.0	70.0	85.7	68.	45.	32.	27.	2.2	942.	
175+CN	112+SE	15.	21.	2.1	1.2	0.9	0.7	57.1	42.9	33.3	58.3	75.0	77.8	77.	44.	33.	26.	2.7	1130.	
175+CN	113+SE	15.	22.	1.7	1.0	0.6	0.5	58.8	35.3	29.4	50.0	60.0	83.3	84.	50.	30.	25.	2.0	563.	
175+CN	114+SE	10.	15.	1.9	1.4	1.3	1.1	72.7	68.4	57.9	78.6	92.9	84.6	51.	37.	35.	29.	3.7	942.	
175+CN	115+SE	10.	15.	1.3	0.8	0.7	0.5	61.5	53.8	39.5	62.5	81.5	71.4	67.	41.	36.	26.	1.9	942.	
175+CN	116+SE	10.	19.	1.3	0.8	0.6	0.4	61.5	46.2	30.8	50.0	75.0	66.7	76.	47.	35.	24.	1.7	1193.	
175+CN	117+SE	10.	25.	2.6	1.8	1.4	1.1	64.3	50.0	39.3	61.1	77.8	78.6	67.	43.	34.	26.	4.2	1570.	
175+CN	118+SE	10.	24.	1.5	1.2	0.8	0.7	63.2	42.1	34.8	58.3	66.7	87.5	73.	46.	31.	27.	2.6	1507.	
175+CN	119+SE	10.	23.	1.5	1.0	0.7	0.6	66.7	46.7	40.0	60.0	70.0	85.7	68.	45.	32.	27.	2.2	1444.	
175+CN	120+SE	10.	25.	1.3	1.0	1.0	0.9	76.9	75.9	69.2	90.0	100.0	90.0	45.	34.	34.	31.	2.9	1510.	
175+CN	121+SE	10.	13.	-0.7	-0.4	-0.4	-0.4	57.1	57.1	57.1	100.0	100.0	100.0	56.	32.	32.	32.	-1.3	1110.	
175+CN	122+SE	10.	26.	1.8	-0.9	-0.8	-0.4	-50.0	-33.3	-22.2	44.4	60.0	66.7	-161.	80.	54.	36.	-1.1	1633.	
175+CN	123+SE	10.	52.	-0.4	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	167.	0.	0.	42.	-0.2	5778.	
175+CN	124+SE	10.	88.	-0.6	-0.4	-0.2	0.0	66.7	33.3	0.0	0.0	50.0	0.0	136.	91.	45.	0.	-0.4	5926.	
177+SN	124+SE	50.	62.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	779.	
177+SN	123+SE	50.	58.	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.	0.	0.	0.	0.0	728.	
177+SN	122+SE	50.	76.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	955.	
177+SN	121+SE	50.	95.	-1.4	-1.0	-0.9	-0.5	71.4	64.3	35.7	50.0	90.0	55.6	64.	45.	41.	23.	-2.2	1193.	
177+SN	120+SE	50.	104.	0.6	0.1	0.1	0.2	16.7	16.7	33.3	200.0	100.0	200.0	107.	18.	18.	36.	0.6	1306.	
177+SN	119+SE	50.	116.	0.5	0.6	0.4	0.4	66.7	44.4	44.4	66.7	100.0	100.0	85.	43.	29.	29.	1.4	1457.	
177+SN	118+SE	50.	190.	1.0	0.4	0.2	0.2	40.0	20.0	20.0	50.0	50.0	100.0	119.	48.	24.	24.	0.8	2386.	
177+SN	117+SE	50.	122.	1.3	0.7	0.6	0.6	53.8	46.2	46.2	85.7	95.7	100.0	66.	35.	30.	30.	2.0	1532.	
177+SN	116+SE	50.	147.	1.3	0.7	0.5	0.4	53.8	34.5	30.8	57.1	71.4	80.0	82.	44.	32.	25.	1.6	1846.	
177+SN	115+SE	50.	130.	1.2	0.6	0.4	0.3	50.0	33.3	25.0	50.0	66.7	75.0	94.	47.	31.	23.	1.3	1631.	
177+SN	114+SE	50.	88.	1.2	0.7	0.5	0.4	53.8	38.5	30.8	57.1	71.4	80.0	82.	44.	32.	25.	1.6	1105.	
177+SN	113+SE	50.	77.	1.4	0.8	0.7	0.6	57.1	50.0	42.9	75.0	87.5	85.7	66.	38.	33.	28.	2.1	947.	
177+SN	112+SE	50.	43.	0.5	0.0	0.1	0.3	0.0	20.0	20.0	0.0	0.0	300.0	76.	0.	15.	45.	0.7	1163.	
177+SN	111+SE	50.	108.	1.4	0.8	0.7	0.7	57.1	50.0	50.0	87.5	87.5	100.0	61.	35.	31.	31.	2.3	1356.	
177+SN	110+SE	50.	52.	1.2	0.7	0.5	0.5	52.8	38.5	38.5	71.4	71.4	100.0	75.	40.	29.	29.	1.7	653.	
177+SN	109+SE	50.	94.	0.5	0.5	0.6	0.7	45.6	66.7	77.8	140.0	120.0	118.7	45.	25.	30.	35.	2.0	1181.	
177+SN	108+SE	50.	47.	0.3	0.1	0.2	0.3	33.3	66.7	100.0	300.0	200.0	150.0	41.	14.	27.	41.	0.7	590.	
177+SN	107+SE	50.	97.	1.5	0.9	0.7	0.7	56.2	43.7	43.7	77.8	77.8	100.0	69.	38.	30.	30.	2.4	1218.	
177+SN	106+SE	50.	187.	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	63.	0.5	2349.	
177+SN	105+SE	70.	162.	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	63.	0.2	1453.	
177+SN	104+SE	50.	170.	0.3	0.1	0.0	0.0	33.3	0.0	0.0	0.0	0.0	0.0	300.	100.	0.	0.	0.1	2135.	
177+SN	103+SE	50.	163.	1.6	1.0	0.8	0.8	62.5	50.0	50.0	80.0	80.0	100.0	61.	38.	30.	30.	2.6	2047.	
177+SN	102+SE	50.	332.	0.5	0.1	0.2	0.3	20.0	40.0	60.0	300.0	200.0	150.0	64.	13.	26.	38.	0.8	4170.	
177+SN	101+SE	50.	225.	1.2	0.7	0.7	0.8	58.3	58.3	46.7	114.3	100.0	114.3	51.	30.	30.	34.	2.4	2826.	
177+SN	100+SE	50.	212.	1.2	1.0	0.8	0.7	76.9	61.5	53.8	70.0	80.0	87.5	54.	41.	33.	29.	2.4	2643.	
180+CN	104+SE	50.	67.	0.8	0.4	0.5	0.6	50.0	62.5	75.0	150.0	125.0	120.0	48.	24.	30.	36.	1.7	842.	
180+CN	98+SE	50.	60.	1.5	0.8	0.6	0.5	53.3	40.0	33.3	62.5	75.0	83.3	79.	42.	32.	26.	1.9	754.	
180+CN	97+SE	50.	63.	0.5	0.0	0.1	0.3	0.0	20.0	20.0	0.0	0.0	300.0	76.	0.	15.	45.	0.7	751.	
180+CN	96+SE	50.	52.	1.8	1.2	1.0	0.9	60.7	55.6	50.0	75.0	83.3	90.0	58.	39.	32.	29.	3.1	1156.	
180+CN	95+SE	50.	118.	2.3	1.5	1.2	1.0	65.2	52.2	43.5	66.7	80.0	81.3	64.	41.	33.	28.	3.6	1457.	
180+CN	100+SE	50.	130.	1.0	0.5	0.6	0.7	50.0	60.0	70.0	140.0	120.0	118.7	50.	25.	30.	35.	2.0	1432.	

LINE	STATION	I	V	M1	M2	M3	M4	2/1	3/1	4/1	4/2	2/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
100+DN	101+5E	50.	323.	1.7	1.0	0.8	0.7	58.8	47.1	41.2	70.0	80.0	87.5	68.	40.	32.	28.	2.5	4122.
100+CN	102+5E	50.	130.	-0.1	-0.3	-0.2	0.0	300.0	200.0	0.0	0.0	66.7	0.0	33.	100.	67.	0.	-0.3	1256.
100+CN	103+5E	50.	405.	1.5	1.2	1.0	1.0	63.2	52.6	52.6	83.3	83.3	100.0	58.	37.	31.	31.	3.3	5087.
100+CN	104+5E	50.	109.	1.6	1.0	0.8	0.6	62.5	50.0	37.5	60.0	80.0	75.0	69.	43.	34.	26.	2.1	1369.
100+DN	105+5E	50.	81.	1.7	1.0	0.8	0.7	58.8	47.1	41.2	70.0	80.0	87.5	68.	40.	32.	28.	2.5	1017.
100+DN	106+5E	50.	52.	1.0	0.6	0.5	0.5	60.0	50.0	50.0	83.3	83.3	100.0	61.	37.	30.	30.	1.6	653.
100+CN	107+5E	50.	49.	0.7	0.2	0.2	0.3	28.6	28.6	42.9	150.0	100.0	150.0	81.	23.	23.	35.	0.9	819.
100+CN	108+5E	50.	40.	0.5	0.7	0.5	0.3	77.8	55.6	23.3	42.9	71.4	60.0	67.	52.	37.	22.	1.3	502.
100+DN	109+5E	50.	75.	1.4	0.8	0.6	0.5	57.1	42.9	35.7	62.5	75.0	83.3	74.	43.	32.	27.	1.9	942.
100+DN	110+5E	50.	45.	0.1	0.1	0.1	0.2	100.0	100.0	200.0	200.0	100.0	200.0	22.	22.	22.	42.	0.5	615.
100+DN	111+5E	50.	77.	1.4	0.6	0.6	0.5	57.1	42.9	35.7	62.5	75.0	83.3	74.	43.	32.	27.	1.9	967.
100+CN	112+5E	50.	73.	0.8	0.3	0.3	0.3	37.5	37.5	37.5	100.0	100.0	100.0	60.	30.	30.	30.	1.0	917.
100+CN	113+5E	50.	120.	0.4	0.0	0.0	0.1	0.0	0.0	25.0	0.0	0.0	0.0	167.	0.	0.	42.	0.2	1608.
100+CN	114+5E	70.	114.	0.9	0.4	0.4	0.5	44.4	44.4	55.6	125.0	100.0	125.0	62.	27.	27.	34.	1.5	1023.
100+CN	115+5E	50.	77.	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	63.	0.3	567.
100+DN	116+5E	50.	103.	-1.1	-1.1	-0.7	-0.3	100.0	63.6	27.3	27.3	63.6	42.9	65.	65.	41.	18.	-1.7	1294.
100+DN	117+5E	50.	71.	-0.3	-0.5	-0.3	0.0	166.7	100.0	0.0	0.0	60.0	0.0	60.	100.	60.	0.	-0.5	892.
100+CN	118+5E	50.	78.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	930.
100+DN	119+5E	50.	83.	0.8	0.4	0.4	0.4	50.0	50.0	50.0	100.0	100.0	100.0	63.	31.	31.	31.	1.3	1042.
100+CN	120+5E	50.	58.	-0.5	-0.6	-0.4	-0.3	120.0	60.0	60.0	50.0	66.7	75.0	44.	53.	35.	26.	-1.1	728.
100+DN	121+5E	50.	46.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	579.
100+DN	122+5E	50.	41.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	515.
100+DN	123+5E	50.	47.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	590.
100+DN	124+5E	50.	45.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.0	565.

551C

LINE	STATION	T	V	M1	M2	M3	M4	Z/1	3/1	4/1	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY	
				V = 1 A = 100. T0 = 20. T0 = 15.																
120	0N	100+5E	50.	30.	0.4	0.2	0.2	0.2	50.	50.	50.	100.	100.	100.	63.	31.	31.	31.	0.6	377.
120	0N	101-5E	50.	33.	0.1	0.0	0.1	0.3	0.	100.	300.	0.	0.	300.	17.	0.	17.	52.	0.6	414.
120	0N	102+5E	50.	62.	0.8	0.4	0.3	0.5	50.	38.	67.	125.	75.	167.	59.	29.	22.	37.	1.4	779.
120	0N	103+5E	50.	56.	0.0	0.0	0.0	0.1	0.	0.	0.	0.	0.	0.	0.	0.	0.	63.	0.2	703.
120	0N	104+5E	50.	52.	0.6	0.4	0.5	0.2	67.	83.	33.	50.	123.	40.	60.	40.	50.	20.	1.0	653.
120	0N	105+5E	50.	63.	0.8	0.3	0.4	0.3	38.	50.	38.	100.	133.	75.	74.	28.	37.	28.	1.1	791.
120	0N	106+5E	50.	70.	1.2	0.7	0.3	0.3	58.	25.	25.	43.	43.	100.	97.	56.	24.	24.	1.2	879.
120	0N	107+5E	50.	65.	0.6	0.5	0.5	0.3	83.	83.	50.	60.	100.	60.	50.	42.	42.	25.	1.2	816.
120	0N	108+5E	50.	60.	0.9	0.5	0.4	0.4	67.	44.	44.	67.	67.	100.	65.	43.	29.	29.	1.4	754.
120	0N	109+5E	50.	51.	0.8	0.5	0.7	0.3	62.	25.	38.	60.	40.	150.	80.	50.	20.	30.	1.0	641.
120	0N	110+5E	50.	49.	0.7	0.2	0.2	0.2	29.	29.	29.	100.	100.	100.	100.	29.	29.	29.	0.7	565.
120	0N	111+5E	50.	40.	0.6	0.5	0.3	0.2	87.	50.	33.	40.	60.	67.	68.	57.	34.	23.	0.9	502.
120	0N	112+5E	50.	42.	0.7	0.3	0.5	0.3	43.	71.	43.	100.	167.	60.	61.	26.	44.	26.	1.1	527.
120	0N	113+5E	50.	51.	0.6	0.4	0.3	0.1	67.	50.	17.	25.	75.	33.	88.	59.	44.	15.	0.7	666.
120	0N	114+5E	50.	60.	0.0	0.1	0.0	0.1	0.	0.	0.	100.	0.	0.	0.	50.	0.	50.	0.2	754.
120	0N	115+5E	50.	59.	-0.2	0.1	0.1	0.0	-50.	-50.	0.	0.	100.	0.	-250.	125.	125.	0.	0.1	741.
120	0N	116+5E	50.	57.	0.3	0.2	0.2	0.1	67.	67.	33.	50.	100.	50.	65.	43.	43.	22.	0.5	719.
120	0N	117+5E	100.	31.	-0.1	-0.3	-0.1	-0.2	300.	100.	200.	67.	33.	200.	19.	56.	19.	37.	-0.5	195.
120	0N	118+5E	100.	25.	-0.5	-0.3	-0.2	0.0	60.	40.	0.	0.	67.	0.	132.	79.	53.	0.	-0.4	157.
120	0N	119+5E	100.	20.	0.0	-0.1	-0.2	0.0	0.	0.	0.	200.	0.	0.	50.	100.	0.	-0.2	126.	
120	0N	120+5E	100.	27.	0.1	0.0	0.0	-0.2	0.	0.	-200.	0.	0.	0.	-33.	0.	0.	67.	-0.3	170.
125	0N	124+5E	100.	21.	-0.3	-0.2	-0.1	-0.1	67.	33.	33.	50.	50.	100.	79.	53.	26.	26.	-0.4	132.
125	0N	125+5E	100.	20.	0.0	-0.1	-0.2	-0.3	0.	0.	0.	300.	200.	150.	0.	15.	29.	44.	-0.7	124.
125	0N	122+5E	100.	19.	-0.4	-0.3	-0.1	-0.1	75.	25.	25.	33.	33.	100.	91.	68.	23.	23.	-0.4	119.
125	0N	121+5E	100.	15.	-0.2	-0.4	-0.3	-0.2	200.	150.	100.	50.	75.	67.	26.	53.	39.	26.	-0.8	94.
125	0N	120+5E	100.	23.	-0.3	-0.5	-0.1	0.0	167.	33.	0.	0.	20.	0.	88.	147.	29.	0.	-0.3	144.
125	0N	117+5E	100.	27.	0.0	0.1	0.0	0.1	0.	0.	0.	100.	0.	0.	0.	50.	0.	50.	0.2	170.
125	0N	114+5E	100.	25.	0.1	-0.1	0.1	0.2	-100.	100.	200.	-200.	-100.	200.	26.	-26.	26.	53.	0.4	157.
125	0N	117+5E	50.	31.	0.0	0.0	0.1	0.0	0.	0.	0.	0.	0.	0.	0.	125.	0.	0.	0.1	389.
125	0N	116+5E	50.	70.	0.1	0.2	0.3	0.1	200.	300.	100.	50.	150.	33.	20.	40.	60.	20.	0.5	879.
125	0N	115+5E	50.	65.	-0.3	-0.1	0.0	0.0	33.	0.	0.	0.	0.	0.	300.	100.	0.	0.	-0.1	816.
125	0N	114+5E	50.	60.	0.2	0.4	0.3	0.1	200.	150.	50.	25.	75.	33.	33.	67.	50.	17.	0.6	754.
125	0N	113+5E	50.	47.	0.7	0.5	0.3	0.4	71.	43.	57.	80.	60.	133.	57.	41.	25.	33.	1.2	590.
125	0N	112+5E	50.	43.	0.5	0.3	0.3	0.3	60.	60.	60.	100.	100.	100.	53.	32.	32.	32.	0.9	666.
125	0N	111+5E	50.	65.	0.5	0.2	0.3	0.3	40.	40.	60.	150.	150.	100.	56.	22.	33.	33.	0.9	816.
125	0N	110+5E	50.	63.	1.0	0.8	0.7	0.7	80.	70.	70.	87.	87.	100.	45.	36.	32.	32.	2.2	791.
125	0N	109+5E	50.	61.	0.8	0.5	0.5	0.5	62.	62.	62.	100.	100.	100.	51.	32.	32.	32.	1.6	766.
125	0N	108+5E	50.	59.	0.5	0.3	0.4	0.1	60.	80.	20.	33.	133.	25.	71.	43.	57.	14.	0.7	741.
125	0N	107+5E	50.	57.	0.0	0.1	0.0	0.2	0.	0.	0.	200.	0.	0.	0.	28.	0.	56.	0.4	716.
125	0N	106+5E	50.	55.	0.8	0.6	0.3	0.2	75.	38.	25.	33.	50.	67.	83.	63.	31.	21.	1.0	691.
125	0N	105+5E	50.	52.	0.9	0.7	0.6	0.4	78.	67.	44.	57.	86.	67.	57.	44.	38.	25.	1.6	653.
125	0N	104+5E	50.	49.	1.0	0.7	0.5	0.4	70.	50.	40.	57.	71.	80.	66.	46.	33.	26.	1.5	565.
125	0N	103+5E	50.	75.	0.2	0.1	0.3	0.2	50.	150.	100.	200.	300.	67.	31.	16.	47.	21.	0.6	879.
125	0N	102+5E	50.	42.	0.3	0.6	0.5	0.2	75.	62.	25.	33.	83.	40.	71.	54.	45.	18.	1.1	528.
125	0N	101+5E	50.	60.	0.7	0.5	0.4	0.3	71.	57.	43.	60.	80.	75.	61.	44.	35.	26.	1.1	754.
125	0N	100+5E	50.	30.	0.5	0.3	0.3	0.2	60.	60.	40.	67.	100.	67.	64.	38.	38.	26.	0.8	377.
130	0N	123+5E	100.	52.	-0.3	-0.4	-0.3	-0.1	133.	100.	33.	25.	75.	33.	48.	65.	48.	16.	-0.6	327.
130	0N	122+5E	100.	53.	-0.6	-0.2	-0.1	-0.2	33.	17.	33.	100.	50.	200.	100.	33.	17.	33.	-0.6	314.
130	0N	121+5E	100.	45.	-0.3	-0.1	-0.3	-0.1	33.	100.	33.	100.	300.	33.	60.	20.	60.	20.	-0.5	283.
130	0N	120+5E	100.	54.	0.0	-0.2	0.0	0.0	0.	0.	0.	0.	0.	0.	250.	0.	0.	0.	-0.1	371.
130	0N	119+5E	100.	60.	-0.2	-0.4	-0.3	0.0	200.	150.	0.	0.	75.	0.	45.	91.	68.	0.	-0.4	377.
130	0N	118+5E	100.	67.	0.0	-0.4	-0.2	0.0	0.	0.	0.	0.	50.	0.	0.	125.	63.	0.	-0.3	421.
130	0N	117+5E	100.	70.	-0.4	-0.5	-0.3	0.0	125.	75.	0.	0.	60.	0.	77.	96.	58.	0.	-0.5	440.

LINE	STATION	I	V	M1	M2	M3	M4	Z/1	3/1	4/1	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
130+0N	116+5E	100.	59.	-0.7	-0.5	-0.2	0.0	250.	100.	0.	0.	40.	0.	50.	125.	50.	0.	-0.4	371.
130+0N	115+5E	100.	54.	0.0	-0.2	0.0	0.0	0.	0.	0.	0.	0.	0.	0.	250.	0.	0.	-0.1	339.
130+0N	114+5E	100.	48.	0.3	0.2	0.1	0.2	67.	33.	67.	100.	50.	200.	56.	37.	19.	37.	0.5	301.
130+0N	113+5E	100.	39.	0.0	0.0	0.0	-0.1	0.	0.	0.	0.	0.	0.	0.	0.	0.	63.	-0.2	245.
130+0N	112+5E	100.	48.	0.4	0.0	0.0	0.1	0.	0.	25.	0.	0.	0.	167.	0.	0.	42.	0.2	301.
130+0N	111+5E	100.	45.	0.8	0.4	0.3	0.3	50.	38.	38.	75.	75.	100.	77.	38.	29.	29.	1.0	283.
130+0N	110+5E	100.	27.	1.1	0.5	0.5	0.5	45.	45.	45.	100.	100.	100.	68.	31.	31.	31.	1.6	170.
130+0N	108+5E	100.	15.	0.1	0.0	0.0	0.1	0.	0.	100.	0.	0.	0.	56.	0.	0.	56.	0.2	94.
130+0N	107+5E	100.	72.	1.9	1.2	0.9	0.8	63.	47.	42.	67.	75.	89.	66.	42.	31.	28.	2.9	452.
130+0N	106+5E	100.	95.	1.9	1.2	1.0	0.0	63.	53.	47.	75.	83.	90.	61.	39.	32.	29.	3.1	534.
130+0N	105+5E	100.	90.	0.7	0.2	0.3	0.3	29.	47.	43.	150.	150.	100.	74.	21.	32.	32.	0.9	565.
130+0N	104+5E	100.	174.	0.6	0.2	0.2	0.3	33.	33.	50.	150.	100.	150.	71.	24.	24.	36.	0.8	1093.
130+0N	103+5E	100.	273.	0.9	0.4	0.3	0.4	44.	33.	44.	100.	75.	133.	74.	33.	25.	33.	1.2	1714.
130+0N	102+5E	100.	189.	0.7	0.2	0.1	0.2	29.	14.	29.	100.	50.	200.	113.	32.	16.	37.	0.6	1187.
130+0N	101+5E	100.	180.	0.3	0.2	0.4	0.2	67.	133.	67.	100.	200.	50.	38.	26.	51.	26.	0.8	1130.
130+0N	100+5E	100.	150.	0.5	0.6	0.4	0.4	120.	80.	80.	67.	67.	100.	38.	46.	31.	31.	1.3	942.
132+5N	100+5E	100.	75.	0.4	0.3	0.2	0.2	75.	50.	50.	67.	67.	100.	59.	44.	29.	29.	0.7	471.
132+5N	101+5E	100.	70.	0.5	0.7	0.5	0.2	140.	100.	40.	29.	71.	40.	45.	64.	45.	18.	1.1	440.
132+5N	102+5E	100.	60.	0.6	0.5	0.3	0.3	83.	50.	50.	60.	60.	100.	58.	48.	29.	29.	1.0	377.
132+5N	103+5E	100.	63.	0.4	0.3	0.3	0.3	75.	75.	75.	100.	100.	100.	43.	33.	33.	33.	0.9	396.
132+5N	104+5E	100.	72.	0.7	0.5	0.5	0.5	71.	86.	71.	100.	120.	83.	43.	31.	37.	31.	1.6	452.
132+5N	105+5E	100.	70.	0.9	0.7	0.5	0.2	78.	56.	22.	29.	71.	40.	76.	59.	42.	17.	1.2	440.
132+5N	106+5E	100.	78.	1.8	1.0	0.6	0.6	56.	37.	33.	60.	60.	100.	82.	45.	27.	27.	2.2	493.
132+5N	107+5E	100.	52.	1.7	0.9	0.4	0.3	53.	35.	18.	33.	67.	50.	102.	54.	36.	18.	1.7	389.
132+5N	108+5E	100.	17.	0.5	0.3	0.4	0.2	60.	80.	40.	67.	133.	50.	58.	35.	47.	23.	0.9	107.
132+5N	109+5E	100.	20.	0.2	0.0	0.0	0.1	0.	0.	50.	0.	0.	0.	100.	0.	0.	50.	0.2	126.
132+5N	110+5E	100.	30.	0.7	0.5	0.6	0.4	71.	86.	57.	80.	120.	67.	48.	34.	41.	27.	1.5	189.
132+5N	111+5E	100.	40.	0.9	0.6	0.3	0.3	67.	33.	33.	50.	50.	100.	79.	53.	26.	26.	1.1	251.
132+5N	112+5E	100.	42.	0.0	0.1	0.3	0.1	0.	0.	0.	100.	0.	0.	0.	50.	0.	50.	0.7	264.
132+5N	113+5E	100.	37.	-0.1	-0.3	0.3	0.0	300.	0.	0.	0.	0.	0.	71.	214.	0.	0.	-0.1	232.
132+5N	114+5E	100.	45.	0.0	0.1	0.2	0.0	0.	0.	0.	0.	200.	0.	0.	50.	100.	0.	0.2	283.
132+5N	115+5E	100.	52.	-0.1	-0.3	-0.4	-0.2	300.	400.	200.	67.	133.	50.	13.	38.	51.	26.	-0.8	377.
132+5N	116+5E	100.	50.	-0.2	-0.5	0.0	-0.2	250.	0.	100.	40.	0.	0.	36.	89.	0.	36.	-0.6	314.
132+5N	117+5E	100.	63.	-0.3	-0.4	-0.2	0.0	133.	67.	0.	0.	50.	0.	79.	105.	53.	0.	-0.4	306.
132+5N	118+5E	100.	67.	-0.1	-0.3	0.3	-0.1	300.	0.	100.	33.	0.	0.	33.	100.	0.	33.	-0.3	399.
132+5N	119+5E	100.	60.	-0.7	-0.4	-0.1	-0.2	200.	50.	100.	50.	25.	200.	33.	67.	17.	33.	-0.6	377.
132+5N	120+5E	100.	63.	-0.1	0.0	-0.2	-0.1	0.	200.	100.	0.	0.	50.	29.	0.	59.	29.	-0.3	396.
132+5N	121+5E	100.	50.	-0.6	-0.4	-0.3	-0.2	67.	50.	33.	50.	75.	67.	71.	48.	36.	24.	-0.8	314.
132+5N	122+5E	100.	57.	-0.1	-0.2	-0.3	-0.3	200.	300.	300.	150.	150.	100.	12.	24.	37.	37.	-0.8	327.
132+5N	123+5E	100.	56.	-0.3	-0.4	-0.2	0.0	133.	67.	0.	0.	50.	0.	79.	105.	53.	0.	-0.4	352.
132+5N	124+5E	100.	50.	-0.6	-0.2	-0.3	-0.1	33.	50.	17.	50.	150.	33.	100.	33.	50.	17.	-0.6	314.
135+0N	124+5E	100.	20.	-0.1	-0.3	-0.2	-0.1	300.	200.	100.	33.	67.	50.	22.	65.	43.	27.	-0.5	126.
135+0N	123+5E	100.	22.	-0.5	-0.3	-0.1	0.0	60.	20.	0.	0.	33.	0.	167.	100.	33.	0.	-0.3	138.
135+0N	122+5E	100.	30.	-0.3	-0.6	-0.7	-0.1	200.	67.	33.	17.	33.	50.	48.	97.	32.	16.	-0.6	189.
135+0N	121+5E	100.	30.	-0.3	-0.1	-0.1	-0.1	33.	33.	33.	100.	100.	100.	88.	29.	29.	29.	-0.3	189.
135+0N	120+5E	100.	25.	0.1	0.0	0.0	0.1	0.	0.	100.	0.	0.	0.	56.	0.	0.	56.	0.2	157.
135+0N	119+5E	100.	21.	0.2	0.0	0.0	0.0	0.	0.	0.	0.	0.	0.	500.	0.	0.	0.	0.0	132.
135+0N	118+5E	100.	19.	0.1	0.0	0.0	0.0	0.	0.	0.	0.	0.	0.	500.	0.	0.	0.	0.0	119.
135+0N	116+5E	50.	15.	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0	188.
135+0N	115+5E	50.	14.	1.0	0.9	0.6	0.6	90.	60.	60.	67.	67.	100.	50.	45.	30.	30.	2.0	176.
135+0N	114+5E	50.	14.	0.6	0.1	0.2	0.4	17.	33.	67.	400.	200.	200.	63.	10.	21.	42.	1.0	176.
135+0N	113+5E	50.	41.	0.4	0.7	0.7	0.7	175.	175.	175.	100.	100.	100.	20.	34.	34.	34.	2.0	515.
135+0N	111+5E	50.	35.	0.0	-0.3	-0.1	0.0	0.	0.	0.	0.	33.	0.	0.	150.	50.	0.	-0.2	457.
135+0N	110+5E	50.	57.	1.3	0.6	0.4	0.5	45.	31.	34.	83.	67.	125.	80.	37.	25.	31.	1.6	716.
135+0N	109+5E	50.	44.	0.8	0.6	0.4	0.4	75.	50.	50.	67.	67.	100.	59.	44.	29.	29.	1.4	553.

LINE	STATION	I	V	M1	M2	M3	M4	2/1	3/1	4/1	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
135+0N	105+5E	50.	34.	0.6	0.2	0.2	0.3	33.	33.	50.	150.	100.	150.	71.	24.	24.	36.	0.8	427.
135+0N	107+5E	50.	31.	1.0	0.4	0.4	0.5	40.	40.	50.	125.	100.	125.	68.	27.	27.	34.	1.5	389.
135+0N	106+5E	50.	78.	1.7	1.1	0.8	0.6	65.	47.	35.	55.	73.	75.	71.	48.	34.	25.	2.4	980.
135+0N	105+5E	50.	47.	1.1	0.7	0.7	0.6	64.	64.	55.	86.	100.	86.	54.	35.	35.	30.	2.0	590.
135+0N	104+5E	50.	47.	0.8	0.8	0.6	0.5	100.	75.	62.	62.	75.	83.	45.	45.	34.	28.	1.8	590.
135+0N	103+5E	50.	42.	1.0	1.0	0.9	0.8	100.	90.	80.	80.	90.	89.	38.	38.	35.	31.	2.6	528.
135+0N	102+5E	50.	46.	0.7	0.8	0.8	0.7	114.	114.	100.	87.	100.	87.	32.	36.	36.	32.	2.2	578.
135+0N	101+5E	50.	47.	1.6	1.0	0.8	0.7	67.	50.	44.	70.	80.	87.	65.	40.	32.	28.	2.5	590.
135+0N	100+5E	50.	45.	1.0	0.7	0.7	0.5	70.	70.	50.	71.	100.	71.	54.	38.	38.	27.	1.8	565.
137+5N	107+5E	100.	40.	1.0	0.7	0.7	0.2	70.	70.	20.	29.	100.	29.	74.	51.	51.	15.	1.4	251.
137+5N	106+5E	100.	45.	0.9	0.7	0.3	0.3	78.	33.	33.	43.	43.	100.	76.	59.	25.	25.	1.2	283.
137+5N	102+5E	100.	59.	0.7	0.8	0.6	0.5	114.	86.	71.	62.	75.	83.	40.	46.	34.	29.	1.7	314.
137+5N	103+5E	100.	52.	0.8	0.6	0.5	0.3	75.	62.	38.	50.	83.	60.	63.	47.	39.	23.	1.3	327.
137+5N	104+5E	100.	40.	0.3	0.2	0.2	0.0	67.	67.	0.	0.	100.	0.	100.	67.	67.	0.	0.3	251.
137+5N	106+5E	100.	36.	1.3	0.9	0.7	0.3	89.	54.	23.	33.	78.	43.	78.	54.	47.	18.	1.7	226.
137+5N	107+5E	100.	33.	1.2	1.0	0.5	0.4	83.	42.	33.	40.	50.	80.	71.	60.	30.	24.	1.7	207.
137+5N	108+5E	100.	40.	0.9	0.7	0.7	0.5	78.	78.	56.	71.	100.	71.	49.	38.	38.	27.	1.8	251.
137+5N	109+5E	100.	47.	0.8	0.3	0.3	0.4	38.	38.	50.	133.	100.	133.	69.	26.	26.	34.	1.2	264.
137+5N	110+5E	100.	30.	0.9	0.7	0.5	0.3	78.	56.	33.	43.	71.	60.	67.	52.	37.	22.	1.3	188.
137+5N	111+5E	100.	27.	0.6	0.2	0.4	0.1	31.	67.	17.	50.	200.	25.	88.	29.	59.	15.	0.7	170.
137+5N	112+5E	100.	30.	0.7	0.5	0.3	0.2	71.	43.	29.	40.	60.	67.	78.	56.	33.	22.	0.9	189.
137+5N	113+5E	100.	33.	0.4	0.6	0.5	0.2	150.	175.	50.	33.	83.	40.	38.	58.	48.	19.	1.0	207.
137+5N	114+5E	100.	20.	0.2	0.1	0.2	0.3	50.	100.	150.	300.	200.	150.	28.	14.	28.	42.	0.7	126.
137+5N	115+5E	50.	15.	-0.3	-0.2	-0.1	-0.1	67.	33.	33.	50.	50.	100.	79.	53.	26.	26.	-0.4	188.
137+5N	116+5E	50.	14.	0.3	0.0	-0.1	0.1	0.	-33.	33.	0.	0.	-100.	214.	0.	-71.	71.	0.1	176.
137+5N	117+5E	50.	19.	0.2	-0.1	0.0	-0.1	-50.	0.	-50.	100.	0.	0.	-125.	63.	0.	63.	-0.2	239.
137+5N	118+5E	50.	21.	-0.2	0.0	0.1	0.0	0.	-50.	0.	0.	0.	0.	-500.	0.	250.	0.	0.0	264.
137+5N	119+5E	100.	25.	-0.3	-0.1	-0.2	-0.3	33.	67.	100.	300.	200.	150.	41.	14.	27.	41.	-0.7	157.
137+5N	120+5E	100.	21.	-0.5	-0.7	-0.3	-0.1	140.	60.	20.	14.	43.	33.	64.	90.	38.	13.	-0.8	126.
137+5N	121+5E	100.	10.	0.0	0.1	0.0	0.2	0.	0.	0.	200.	0.	0.	0.	28.	0.	56.	0.4	189.
137+5N	122+5E	100.	13.	-0.4	-0.2	-0.4	-0.2	50.	100.	50.	100.	200.	50.	50.	25.	50.	25.	-0.8	207.
137+5N	123+5E	100.	25.	-0.3	-0.1	-0.1	-0.2	33.	33.	67.	200.	100.	200.	60.	20.	20.	40.	-0.5	157.
140+0N	124+5E	100.	36.	-0.2	-0.1	0.0	0.0	50.	0.	0.	0.	0.	0.	250.	125.	0.	0.	-0.1	226.
140+0N	123+5E	100.	35.	-0.3	-0.1	-0.3	0.0	33.	100.	0.	0.	300.	0.	88.	29.	88.	0.	-0.3	226.
140+0N	122+5E	100.	30.	-0.3	-0.7	-0.5	-0.2	233.	167.	67.	29.	71.	40.	25.	66.	47.	19.	-1.1	188.
140+0N	121+5E	100.	30.	-0.3	-0.5	-0.3	-0.1	167.	100.	33.	20.	60.	33.	45.	76.	45.	15.	-0.7	188.
140+0N	120+5E	100.	30.	-0.5	-0.7	-0.5	-0.2	140.	100.	40.	29.	71.	40.	45.	64.	45.	18.	-1.1	188.
140+0N	119+5E	100.	49.	-0.1	0.0	0.1	0.1	0.	-100.	-100.	0.	0.	100.	-45.	0.	45.	45.	0.2	251.
140+0N	118+5E	100.	43.	0.0	0.1	0.2	0.3	0.	0.	0.	300.	200.	150.	0.	15.	29.	44.	0.7	270.
140+0N	117+5E	100.	35.	0.2	0.0	0.0	0.1	0.	0.	50.	0.	0.	0.	100.	0.	0.	50.	0.2	225.
140+0N	116+5E	100.	33.	0.2	0.0	0.0	0.2	0.	0.	100.	0.	0.	0.	56.	0.	0.	56.	0.4	207.
140+0N	115+5E	100.	30.	0.1	-0.1	0.0	0.0	-100.	0.	0.	0.	0.	0.	-500.	500.	0.	0.	-0.0	183.
140+0N	114+5E	100.	34.	0.3	0.0	0.0	0.0	0.	0.	0.	0.	0.	0.	500.	0.	0.	0.	0.1	214.
140+0N	113+5E	100.	36.	0.3	0.1	0.1	0.0	33.	33.	0.	0.	100.	0.	167.	56.	56.	0.	0.7	226.
140+0N	112+5E	100.	19.	0.5	0.1	0.1	0.3	20.	20.	60.	300.	100.	300.	71.	14.	14.	43.	0.7	245.
140+0N	111+5E	100.	33.	0.6	0.2	0.2	0.1	33.	33.	17.	50.	100.	50.	115.	38.	38.	19.	0.5	207.
140+0N	110+5E	100.	30.	0.8	0.3	0.3	0.4	33.	38.	50.	133.	100.	133.	69.	26.	26.	34.	1.2	188.
140+0N	109+5E	100.	33.	0.8	0.3	0.4	0.3	39.	50.	38.	100.	133.	75.	74.	28.	37.	28.	1.1	207.
140+0N	108+5E	100.	37.	1.4	0.7	0.6	0.6	50.	43.	43.	86.	86.	100.	70.	35.	30.	30.	2.0	188.
140+0N	107+5E	100.	30.	1.5	0.9	0.6	0.5	53.	40.	33.	62.	75.	83.	79.	42.	32.	26.	1.9	189.
140+0N	106+5E	100.	27.	1.8	0.4	0.2	0.2	40.	20.	20.	50.	50.	100.	119.	48.	24.	24.	0.8	170.
140+0N	105+5E	100.	27.	0.5	0.3	0.2	0.3	65.	0.	0.	0.	0.	0.	227.	136.	0.	0.	0.2	170.
140+0N	104+5E	100.	21.	0.0	-0.1	0.0	-0.1	0.	0.	0.	100.	0.	0.	0.	50.	0.	50.	-0.2	132.
140+0N	103+5E	100.	33.	0.7	0.5	0.1	0.1	71.	14.	14.	20.	20.	100.	121.	85.	17.	17.	0.6	188.
140+0N	102+5E	100.	33.	0.9	0.3	0.3	0.2	33.	33.	22.	67.	100.	67.	105.	35.	35.	23.	0.9	207.

LINE	STATION	I	V	M1	M2	M3	M4	Z/1	Z/1	A/1	A/2	B/2	A/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
140-0N	101-5E	100.	30.	0.7	0.5	0.1	0.0	71.	14.	0.	0.	20.	0.	167.	119.	24.	0.	0.4	188.
140-0N	100-5E	100.	33.	0.8	0.5	0.3	0.4	62.	38.	50.	80.	60.	133.	65.	40.	24.	32.	1.2	207.
142-5N	100-5E	100.	20.	0.7	0.6	0.6	0.2	86.	86.	29.	33.	100.	33.	59.	51.	51.	17.	1.2	126.
142-5N	101-5E	100.	20.	2.1	1.2	1.0	0.9	57.	48.	43.	75.	83.	90.	67.	38.	32.	29.	3.1	126.
142-5N	102-5E	100.	42.	0.2	0.3	0.3	0.4	150.	150.	200.	133.	100.	133.	19.	29.	29.	38.	1.0	264.
142-5N	103-5E	100.	18.	0.4	0.2	0.2	0.4	50.	50.	100.	200.	100.	200.	42.	21.	21.	42.	1.0	113.
142-5N	104-5E	100.	39.	1.4	0.7	0.5	0.4	50.	36.	29.	57.	71.	80.	88.	44.	31.	25.	1.6	245.
142-5N	105-5E	100.	30.	0.2	0.4	0.4	0.5	50.	50.	62.	125.	100.	125.	56.	28.	28.	35.	1.4	188.
142-5N	106-5E	100.	36.	1.1	0.5	0.4	0.4	45.	36.	35.	80.	80.	100.	80.	36.	29.	29.	1.4	226.
142-5N	107-5E	100.	37.	0.8	0.3	0.5	0.5	35.	62.	75.	200.	167.	120.	49.	18.	30.	37.	1.6	188.
142-5N	108-5E	100.	49.	0.4	0.1	0.2	0.3	25.	50.	75.	300.	200.	150.	53.	13.	26.	39.	0.8	308.
142-5N	109-5E	100.	45.	1.2	0.8	0.8	0.7	67.	67.	58.	87.	100.	87.	52.	34.	34.	30.	2.3	283.
142-5N	110-5E	100.	27.	1.5	0.9	0.8	0.9	60.	53.	53.	89.	89.	100.	58.	35.	31.	31.	2.6	170.
142-5N	111-5E	100.	36.	1.0	0.4	0.4	0.5	40.	40.	50.	125.	100.	125.	68.	27.	27.	34.	1.5	226.
142-5N	112-5E	100.	47.	1.4	1.0	0.7	0.6	71.	50.	43.	80.	73.	86.	64.	49.	32.	27.	2.2	275.
142-5N	113-5E	100.	35.	1.7	0.9	0.7	0.6	53.	41.	35.	67.	78.	86.	77.	61.	32.	27.	2.2	220.
142-5N	114-5E	100.	33.	0.8	0.2	0.3	0.4	25.	38.	50.	200.	150.	133.	71.	18.	27.	36.	1.1	207.
142-5N	115-5E	100.	39.	1.2	0.5	0.4	0.4	42.	33.	33.	83.	83.	100.	86.	36.	29.	29.	1.4	245.
142-5N	117-5E	100.	53.	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0	333.
142-5N	118-5E	100.	45.	-0.4	-0.5	-0.2	0.0	125.	50.	0.	0.	40.	0.	91.	114.	45.	0.	-0.4	283.
142-5N	119-5E	100.	63.	0.0	-0.7	-0.1	0.0	0.	0.	0.	0.	50.	0.	0.	125.	63.	0.	-0.2	395.
142-5N	120-5E	100.	54.	0.0	-0.3	-0.2	0.0	0.	0.	0.	0.	67.	0.	0.	107.	71.	0.	-0.3	339.
142-5N	121-5E	100.	36.	-0.5	-0.7	-0.4	-0.2	140.	80.	40.	29.	57.	50.	49.	69.	39.	20.	-1.0	226.
142-5N	122-5E	100.	86.	-0.1	-0.3	-0.1	0.0	300.	100.	0.	0.	33.	0.	45.	136.	45.	0.	-0.2	540.
142-5N	123-5E	100.	80.	0.0	-0.2	0.0	-0.2	0.	0.	0.	100.	0.	0.	0.	50.	0.	50.	-3.4	502.
142-5N	124-5E	100.	72.	-0.3	-0.1	0.0	0.0	33.	0.	0.	0.	0.	0.	300.	100.	0.	0.	-0.1	452.
145-0N	124-5E	50.	25.	-0.2	-0.2	-0.1	0.0	100.	50.	0.	0.	50.	0.	100.	100.	50.	0.	-0.2	314.
145-0N	123-5E	50.	27.	-0.2	-0.4	-0.1	0.0	200.	50.	0.	0.	25.	0.	71.	143.	36.	0.	-0.3	339.
145-0N	122-5E	30.	28.	-0.5	-0.5	-0.3	0.0	120.	60.	0.	0.	50.	0.	86.	103.	52.	0.	-0.6	586.
145-0N	121-5E	50.	49.	-1.1	-1.2	-0.8	-0.4	109.	73.	36.	33.	67.	50.	55.	61.	40.	20.	-2.0	615.
145-0N	119-5E	50.	35.	-0.7	0.3	0.3	0.1	0.	0.	-50.	0.	0.	0.	-167.	0.	0.	83.	0.1	452.
145-0N	118-5E	50.	39.	-1.0	-1.1	-0.7	-0.3	110.	70.	30.	27.	64.	43.	69.	65.	42.	18.	-1.7	1118.
145-0N	117-5E	50.	133.	1.1	0.5	0.4	0.4	45.	36.	36.	80.	80.	100.	80.	36.	29.	29.	1.4	1670.
145-0N	115-5E	50.	125.	0.7	0.4	0.6	0.8	57.	86.	114.	200.	150.	133.	34.	19.	29.	39.	2.1	1570.
145-0N	115-5E	50.	107.	-0.7	-0.3	0.9	0.1	150.	0.	-50.	-33.	0.	0.	0.	0.	0.	0.	0.0	1344.
145-0N	114-5E	50.	77.	0.0	-3.2	3.0	3.1	0.	0.	0.	-50.	0.	0.	0.	-250.	0.	125.	0.1	987.
145-0N	113-5E	50.	46.	1.4	1.0	1.1	1.0	71.	79.	71.	100.	110.	91.	44.	32.	35.	32.	3.2	579.
145-0N	112-5E	50.	36.	1.3	0.9	0.9	0.9	62.	69.	64.	112.	112.	100.	47.	29.	33.	33.	2.7	452.
145-0N	111-5E	50.	30.	1.5	1.1	0.7	0.7	69.	44.	44.	64.	64.	100.	66.	49.	29.	29.	2.4	377.
145-0N	110-5E	50.	31.	1.9	1.3	1.3	1.1	68.	68.	58.	85.	100.	85.	51.	35.	35.	30.	3.7	414.
145-0N	109-5E	50.	16.	1.9	1.4	1.1	1.0	74.	58.	53.	71.	79.	91.	56.	41.	32.	29.	3.4	201.
145-0N	108-5E	50.	19.	1.4	0.8	0.7	0.6	57.	50.	43.	75.	87.	66.	66.	38.	33.	28.	2.1	239.
145-0N	107-5E	50.	71.	0.5	0.1	0.3	0.4	17.	50.	67.	400.	300.	133.	58.	10.	29.	38.	1.0	264.
145-0N	106-5E	50.	24.	1.2	0.5	0.5	0.4	42.	42.	33.	80.	100.	80.	81.	34.	34.	27.	1.5	301.
145-0N	105-5E	50.	15.	0.0	0.0	0.1	0.3	0.	0.	0.	0.	0.	300.	0.	0.	18.	54.	0.6	183.
145-0N	104-5E	50.	21.	1.4	0.7	0.5	0.6	59.	36.	43.	86.	71.	120.	73.	36.	26.	31.	1.9	264.
145-0N	103-5E	50.	13.	1.5	1.0	0.8	0.6	67.	53.	40.	60.	80.	75.	65.	43.	35.	26.	2.3	226.
145-0N	101-5E	50.	20.	0.7	0.3	0.3	0.1	43.	43.	14.	33.	100.	33.	106.	45.	45.	15.	0.7	251.
145-0N	100-5E	50.	25.	0.3	0.1	0.1	0.0	33.	33.	0.	0.	100.	0.	167.	56.	56.	0.	0.2	314.
147-5N	100-5E	50.	25.	0.7	0.6	0.3	0.1	86.	43.	14.	17.	50.	31.	90.	77.	38.	13.	0.8	314.
147-5N	101-5E	50.	30.	0.9	0.6	0.2	0.0	67.	27.	0.	0.	31.	0.	155.	103.	34.	0.	0.6	377.
147-5N	102-5E	50.	23.	0.1	0.1	0.0	0.0	33.	0.	0.	0.	0.	0.	300.	100.	0.	0.	0.1	251.
147-5N	103-5E	50.	36.	0.9	0.3	0.3	0.3	33.	33.	31.	100.	100.	100.	88.	29.	29.	29.	1.0	452.
147-5N	104-5E	50.	21.	1.2	0.5	0.4	0.4	42.	33.	33.	80.	80.	100.	86.	36.	29.	29.	1.4	264.

LINE	STATION	T	V	M1	M2	M3	M4	2/1	3/1	4/1	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY	
147+54	105+55	100.	21.	0.3	0.0	0.0	0.2	0.	0.	67.	0.	0.	0.	79.	0.	0.	53.	0.4	132.	
147+54	106+55	100.	34.	0.8	0.7	0.2	0.2	25.	25.	25.	100.	100.	100.	111.	28.	28.	28.	28.	0.7	226.
147+54	107+55	100.	33.	1.4	0.7	0.5	0.5	50.	36.	36.	71.	71.	100.	80.	40.	28.	28.	1.8	207.	
147+54	108+55	100.	39.	0.8	0.3	0.3	0.4	39.	38.	50.	133.	100.	133.	69.	26.	26.	34.	1.2	245.	
147+54	109+55	100.	51.	0.5	0.0	0.1	0.2	0.	20.	40.	0.	0.	200.	100.	0.	20.	40.	0.5	320.	
147+54	110+55	100.	53.	1.9	1.1	0.9	0.6	58.	42.	32.	55.	73.	75.	79.	45.	33.	25.	2.4	333.	
147+54	111+55	100.	89.	1.7	1.1	0.9	0.9	65.	53.	53.	87.	82.	100.	58.	37.	31.	31.	2.9	557.	
147+54	112+55	100.	75.	2.1	1.4	1.3	1.2	67.	62.	57.	86.	93.	92.	53.	36.	33.	30.	3.9	477.	
147+54	113+55	100.	178.	0.7	0.3	0.4	0.6	43.	57.	86.	200.	133.	150.	45.	19.	26.	30.	1.5	804.	
147+54	114+55	100.	73.	0.9	0.5	0.5	0.7	56.	47.	78.	140.	120.	117.	45.	25.	30.	35.	2.0	564.	
147+54	115+55	100.	137.	-0.7	-0.9	-0.5	-0.2	129.	86.	29.	22.	67.	33.	54.	69.	46.	15.	-1.3	674.	
147+54	116+55	100.	116.	-0.4	-0.7	-0.6	-0.3	150.	100.	50.	33.	67.	50.	42.	63.	47.	21.	-1.4	728.	
147+54	117+55	100.	150.	-4.3	-3.9	-2.9	-2.1	91.	67.	49.	54.	74.	72.	53.	48.	36.	26.	-3.1	942.	
147+54	118+55	100.	276.	-0.2	-0.5	-0.4	-0.2	250.	200.	100.	40.	80.	50.	23.	57.	45.	23.	-0.4	1839.	
147+54	121+55	50.	50.	-1.1	-1.2	-0.8	-0.3	109.	73.	27.	26.	67.	33.	60.	65.	44.	16.	-1.8	624.	
147+54	122+55	50.	30.	-0.6	-0.5	-0.4	-0.4	83.	100.	67.	80.	120.	67.	42.	35.	42.	28.	-1.4	377.	
147+54	123+55	50.	27.	-0.2	-0.4	-0.2	0.0	200.	100.	0.	0.	50.	0.	56.	111.	56.	0.	-0.4	251.	
147+54	124+55	50.	25.	-0.3	-0.3	-0.1	0.0	100.	73.	0.	0.	33.	0.	115.	115.	38.	0.	-0.3	314.	
150+04	124+55	50.	55.	-0.3	-0.1	-0.2	0.0	33.	67.	0.	0.	200.	0.	115.	38.	77.	0.	-0.3	691.	
150+04	123+55	50.	45.	0.1	0.1	0.0	0.0	100.	0.	0.	0.	0.	0.	167.	167.	0.	0.	0.1	565.	
150+04	122+55	50.	56.	0.0	0.0	0.1	0.1	0.	0.	0.	0.	0.	100.	0.	0.	42.	47.	0.2	703.	
150+04	121+55	50.	72.	-0.5	-0.3	-0.4	0.1	60.	80.	-20.	-33.	133.	-25.	132.	79.	105.	-26.	-0.4	904.	
150+04	120+55	50.	51.	-0.9	-0.6	-0.6	-0.3	67.	67.	33.	50.	100.	50.	65.	43.	43.	27.	-1.4	641.	
150+04	119+55	50.	35.	-1.6	-1.7	-1.3	-0.9	166.	81.	55.	53.	75.	69.	46.	44.	37.	26.	-3.5	452.	
150+04	118+55	50.	51.	-1.5	-1.4	-1.2	-1.0	93.	80.	67.	71.	86.	83.	44.	41.	35.	29.	-3.4	641.	
150+04	117+55	50.	59.	-1.2	-1.0	-0.7	-0.3	100.	70.	30.	30.	70.	43.	61.	61.	43.	18.	-1.6	723.	
150+04	116+55	150.	343.	0.2	0.0	0.3	0.1	0.	0.	50.	0.	0.	0.	100.	0.	0.	50.	0.2	1633.	
150+04	115+55	50.	56.	0.2	0.0	0.2	0.4	0.	100.	200.	0.	0.	200.	24.	0.	24.	43.	0.6	703.	
150+04	114+55	50.	136.	-0.1	-0.3	0.0	0.0	300.	0.	0.	0.	0.	0.	71.	214.	0.	0.	-0.1	1708.	
150+04	113+55	50.	85.	1.0	0.5	0.6	0.8	50.	60.	80.	160.	120.	133.	46.	73.	28.	37.	2.2	1080.	
150+04	112+55	50.	59.	0.7	0.5	0.5	0.7	71.	71.	100.	140.	100.	140.	38.	27.	27.	34.	1.9	728.	
150+04	111+55	50.	63.	0.7	0.3	0.2	0.4	43.	79.	57.	133.	67.	200.	66.	29.	19.	38.	1.1	854.	
150+04	110+55	50.	50.	1.2	0.6	0.6	0.5	50.	50.	47.	83.	100.	83.	68.	74.	34.	28.	1.8	628.	
150+04	109+55	50.	36.	-0.4	-0.5	-0.3	0.0	125.	75.	0.	0.	60.	0.	77.	96.	58.	0.	-0.5	452.	
150+04	108+55	50.	49.	0.7	0.3	0.4	0.5	43.	57.	71.	167.	133.	125.	51.	22.	29.	36.	1.4	615.	
150+04	107+55	50.	33.	0.0	-0.4	0.0	0.1	0.	0.	0.	-25.	0.	0.	0.	0.	0.	0.	0.0	414.	
150+04	106+55	50.	31.	0.9	0.5	0.3	0.5	56.	33.	56.	100.	69.	167.	63.	35.	21.	35.	1.4	787.	
150+04	105+55	50.	25.	0.8	0.3	0.4	0.5	78.	50.	62.	167.	133.	125.	57.	21.	20.	36.	1.4	314.	
150+04	104+55	50.	15.	0.3	0.2	0.4	0.6	67.	133.	200.	300.	200.	150.	21.	14.	28.	47.	1.4	194.	
150+04	103+55	50.	24.	0.2	0.5	0.6	0.7	56.	67.	78.	140.	120.	117.	45.	25.	30.	35.	2.0	301.	
150+04	102+55	50.	21.	1.2	0.7	0.7	0.8	59.	58.	67.	114.	100.	114.	51.	30.	30.	24.	2.4	264.	
150+04	101+55	50.	25.	0.6	0.4	0.4	0.3	67.	67.	50.	75.	100.	75.	56.	37.	37.	28.	1.1	314.	
150+04	100+55	50.	20.	0.3	0.3	0.1	0.2	100.	33.	57.	67.	33.	200.	57.	57.	17.	34.	0.6	251.	
152+54	100+55	50.	70.	0.7	0.5	0.5	0.2	71.	71.	29.	40.	100.	40.	66.	47.	47.	19.	1.1	879.	
152+54	101+55	50.	74.	0.8	0.3	0.3	0.4	38.	38.	50.	133.	100.	133.	64.	26.	26.	34.	1.2	929.	
152+54	102+55	50.	61.	0.7	0.4	0.4	0.5	57.	57.	71.	125.	100.	125.	49.	28.	28.	35.	1.4	766.	
152+54	103+55	50.	99.	1.0	0.5	0.5	0.5	50.	50.	50.	100.	100.	100.	53.	31.	31.	71.	1.6	1243.	
152+54	104+55	50.	105.	0.9	0.3	0.4	0.4	33.	44.	44.	133.	133.	100.	71.	24.	32.	32.	1.3	1319.	
152+54	105+55	50.	75.	-0.2	-0.4	-0.1	0.0	200.	50.	0.	0.	25.	0.	71.	143.	36.	0.	-0.3	942.	
152+54	106+55	50.	143.	0.0	-0.2	-0.1	0.0	0.	0.	0.	0.	50.	0.	0.	125.	67.	0.	-0.7	1753.	
152+54	107+55	50.	132.	0.2	0.0	0.0	0.1	0.	0.	50.	0.	0.	0.	100.	0.	0.	50.	0.2	1658.	
152+54	108+55	50.	162.	0.1	0.0	0.0	0.0	0.	0.	0.	0.	0.	0.	500.	0.	0.	0.	0.0	2035.	
152+54	109+55	50.	77.	0.0	0.0	0.1	0.5	0.	0.	0.	0.	0.	167.	0.	0.	29.	48.	1.0	465.	
152+54	110+55	50.	31.	0.6	0.4	0.4	0.6	67.	67.	100.	150.	100.	150.	38.	26.	26.	38.	1.6	339.	
152+54	111+55	50.	42.	0.4	0.0	0.1	0.3	0.	25.	75.	0.	0.	300.	63.	0.	16.	47.	0.6	528.	

LINE	STATION	I	V	M1	M2	M3	M4	Z/1	Z/1	Z/1	Z/2	Z/2	Z/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
152+5N	112+5F	50.	42.	0.0	0.1	0.2	0.3	0.	0.	0.	300.	200.	150.	0.	15.	29.	44.	0.7	528.
152+5N	113+5E	50.	52.	1.2	0.9	1.0	1.0	75.	83.	83.	111.	111.	100.	40.	30.	33.	33.	3.0	653.
152+5N	114+5E	50.	59.	0.9	0.7	0.8	0.9	78.	89.	100.	129.	114.	112.	35.	28.	31.	35.	2.5	741.
152+5N	115+5E	50.	45.	1.1	1.2	1.1	1.0	109.	100.	91.	83.	92.	91.	35.	38.	35.	31.	3.2	565.
152+5N	116+5F	50.	80.	2.3	1.8	1.7	1.7	78.	74.	74.	94.	94.	100.	44.	34.	32.	32.	5.3	1005.
152+5N	117+5F	50.	41.	-0.4	0.0	0.0	0.2	0.	0.	-50.	0.	0.	0.	-167.	0.	0.	83.	0.7	515.
152+5N	118+5E	50.	55.	-0.2	-0.3	-0.1	0.0	150.	50.	0.	0.	33.	0.	83.	125.	42.	0.	-0.2	691.
152+5N	119+5E	50.	60.	0.1	0.1	0.0	0.0	100.	0.	0.	0.	0.	0.	167.	167.	0.	0.	0.1	754.
152+5N	120+5E	50.	72.	-0.3	-0.2	-0.2	0.0	67.	67.	0.	0.	100.	0.	100.	67.	67.	0.	-0.3	904.
152+5N	121+5E	50.	55.	0.5	0.4	0.3	0.0	80.	68.	0.	0.	75.	0.	100.	80.	60.	0.	0.5	691.
152+5N	122+5E	50.	68.	0.2	0.0	0.0	0.0	0.	0.	0.	0.	0.	0.	500.	0.	0.	0.	0.0	854.
152+5N	123+5E	50.	70.	0.0	0.0	0.1	0.0	0.	0.	0.	0.	0.	0.	0.	0.	125.	0.	0.1	879.
152+5N	124+5E	50.	52.	-0.3	-0.2	-0.2	0.0	67.	67.	0.	0.	100.	0.	100.	67.	67.	0.	-0.3	653.
155+0N	124+5E	50.	18.	-0.7	-0.7	-0.7	0.0	100.	100.	0.	0.	100.	0.	71.	71.	71.	0.	-0.3	276.
155+0N	123+5E	50.	76.	-3.1	-2.5	-1.8	-1.1	81.	58.	35.	44.	72.	61.	64.	52.	37.	23.	-4.8	327.
155+0N	122+5E	50.	45.	1.0	0.9	0.6	0.3	50.	60.	30.	33.	67.	50.	66.	59.	39.	20.	1.5	555.
155+0N	121+5F	50.	60.	1.3	1.1	0.9	0.8	85.	69.	62.	73.	82.	89.	48.	41.	33.	30.	2.7	754.
155+0N	120+5E	50.	60.	-1.9	-1.6	-1.1	-0.6	84.	58.	32.	37.	67.	55.	66.	56.	38.	21.	-2.9	754.
155+0N	119+5E	50.	55.	1.2	0.8	0.9	0.8	67.	67.	67.	100.	100.	100.	48.	32.	32.	32.	2.5	691.
155+0N	117+5E	50.	50.	2.1	1.8	1.6	1.3	86.	76.	62.	72.	89.	81.	47.	40.	36.	29.	4.5	678.
155+0N	116+5E	50.	71.	0.0	0.0	0.2	0.4	0.	0.	0.	0.	0.	200.	0.	0.	25.	50.	0.8	892.
155+0N	115+5F	50.	47.	1.1	0.8	0.9	0.8	73.	82.	73.	100.	112.	89.	43.	31.	35.	31.	2.5	615.
155+0N	114+5E	50.	39.	1.0	1.2	1.1	1.0	63.	58.	53.	83.	92.	91.	57.	36.	33.	30.	3.3	477.
155+0N	113+5F	50.	33.	1.6	1.1	1.0	0.9	69.	62.	56.	82.	91.	90.	53.	37.	33.	33.	3.0	414.
155+0N	112+5E	50.	50.	1.1	0.7	0.7	0.7	64.	64.	64.	100.	100.	100.	50.	32.	32.	32.	2.2	624.
155+0N	111+5E	50.	46.	1.0	0.9	0.7	0.5	90.	70.	50.	56.	78.	71.	52.	47.	36.	26.	1.9	578.
155+0N	110+5E	50.	53.	0.0	0.0	0.0	0.2	0.	0.	0.	0.	0.	0.	0.	0.	0.	63.	0.3	666.
155+0N	109+5E	50.	47.	0.0	0.0	0.0	0.1	0.	0.	0.	0.	0.	0.	0.	0.	0.	63.	0.2	590.

LINE	STATION	I	V	M1	M2	M3	M4	2/L	3/1	4/1	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
N = 1 A = 100. TP = 20. TO = 15.																			
155-0N	108-5E	50.	95.	0.3	0.3	0.2	0.1	100.	67.	33.	33.	67.	50.	60.	60.	40.	20.	0.5	1193.
155-0N	107-5E	50.	98.	0.5	0.3	0.4	0.2	60.	80.	40.	67.	133.	50.	58.	35.	47.	23.	0.9	1231.
155-0N	106-5E	50.	100.	0.4	0.2	0.2	0.2	50.	50.	50.	100.	100.	100.	63.	31.	31.	31.	0.6	1256.
155-0N	105-5E	50.	112.	0.2	0.0	0.1	0.3	0.	50.	150.	0.	0.	300.	33.	0.	17.	50.	0.6	1407.
155-0N	104-5E	50.	140.	0.3	0.1	0.0	0.0	33.	0.	0.	0.	0.	0.	300.	100.	0.	0.	0.1	1758.
155-0N	103-5E	50.	140.	-0.1	-0.1	0.0	-0.1	100.	0.	100.	100.	0.	0.	45.	45.	0.	45.	-0.2	1758.
155-0N	102-5E	50.	120.	0.0	0.1	0.0	0.2	0.	0.	0.	200.	0.	0.	0.	28.	0.	56.	0.4	1507.
155-0N	101-5E	50.	110.	0.0	0.0	-0.1	-0.1	0.	0.	0.	0.	0.	100.	0.	0.	42.	42.	-0.2	1382.
155-0N	100-5E	50.	140.	0.3	0.3	0.2	0.0	100.	67.	0.	0.	67.	0.	88.	88.	59.	0.	0.3	1758.
157-5N	100-5E	50.	150.	0.4	0.3	0.3	0.4	75.	75.	100.	133.	100.	133.	37.	28.	28.	37.	1.1	1884.
157-5N	101-5E	50.	195.	-1.2	-1.2	-0.7	-0.3	100.	58.	25.	25.	58.	43.	68.	68.	40.	17.	-1.8	2447.
157-5N	102-5E	50.	150.	-0.2	-0.1	0.0	0.2	50.	0.	-100.	-200.	0.	0.	-83.	-42.	0.	83.	0.2	1084.
157-5N	103-5E	50.	183.	-0.4	-0.5	-0.3	0.0	125.	75.	0.	0.	60.	0.	77.	96.	58.	0.	-0.5	2298.
157-5N	104-5E	50.	103.	-1.2	-1.2	-0.6	-0.4	100.	67.	33.	33.	67.	50.	60.	60.	40.	20.	-2.0	1294.
157-5N	105-5E	50.	103.	-1.0	-1.0	-0.6	-0.4	100.	60.	40.	40.	60.	67.	58.	58.	35.	23.	-1.7	1294.
157-5N	106-5E	50.	100.	0.2	-0.1	0.1	0.3	-50.	50.	150.	-300.	-100.	300.	36.	-18.	18.	54.	0.6	1256.
157-5N	107-5E	50.	80.	0.3	0.0	0.0	0.2	0.	0.	67.	0.	0.	0.	79.	0.	0.	53.	0.4	1005.
157-5N	108-5E	50.	65.	0.0	-0.1	0.0	0.0	0.	0.	0.	0.	0.	0.	250.	0.	0.	0.	-0.0	815.
157-5N	109-5E	50.	71.	-0.2	-0.3	0.0	0.1	150.	0.	-50.	-33.	0.	0.	0.	0.	0.	0.	0.0	692.
157-5N	110-5E	50.	44.	0.0	0.0	0.1	0.2	0.	0.	0.	0.	0.	200.	0.	0.	25.	50.	0.4	553.
157-5N	111-5E	50.	48.	0.0	0.0	0.0	0.1	0.	0.	0.	0.	0.	0.	0.	0.	0.	63.	0.2	603.
157-5N	112-5E	50.	41.	0.0	-0.1	0.0	0.0	0.	0.	0.	0.	0.	0.	0.	250.	0.	0.	-0.0	515.
157-5N	113-5E	50.	45.	0.5	0.4	0.5	0.6	80.	100.	120.	150.	125.	120.	31.	25.	31.	37.	1.6	565.
157-5N	114-5E	50.	85.	1.7	1.3	1.4	1.4	76.	82.	82.	108.	108.	100.	40.	31.	33.	33.	4.2	1068.
157-5N	115-5E	50.	48.	5.4	4.7	4.1	3.7	87.	76.	69.	79.	87.	90.	44.	39.	34.	30.	12.2	603.
157-5N	116-5E	50.	42.	4.5	4.5	4.2	3.8	100.	93.	84.	84.	93.	90.	37.	37.	35.	31.	12.1	528.
157-5N	117-5E	50.	54.	9.2	8.6	8.1	7.1	93.	88.	77.	83.	94.	88.	40.	37.	35.	31.	23.1	678.
157-5N	118-5E	50.	17.	8.8	8.6	7.8	7.2	98.	89.	82.	84.	91.	92.	38.	37.	34.	31.	23.0	214.
157-5N	119-5E	50.	38.	6.2	5.0	4.4	4.0	81.	71.	65.	80.	88.	91.	47.	38.	33.	30.	13.2	477.
157-5N	120-5E	140.	400.	3.0	2.6	1.6	1.4	87.	53.	47.	54.	62.	87.	58.	50.	31.	27.	5.2	1794.
157-5N	121-5E	50.	80.	-0.4	-0.3	-0.1	0.1	75.	25.	-25.	-33.	33.	-100.	333.	250.	83.	-83.	-0.1	1009.
157-5N	122-5E	50.	24.	-1.5	0.0	0.0	0.2	0.	0.	-13.	0.	0.	0.	-7500.	0.	0.	1000.	0.0	301.
157-5N	123-5E	50.	30.	-1.2	0.0	0.0	0.0	0.	0.	0.	0.	0.	0.	500.	0.	0.	0.	-0.2	377.
157-5N	124-5E	50.	36.	-0.8	-0.6	-0.3	0.0	75.	38.	0.	0.	50.	0.	125.	94.	47.	0.	-0.6	452.
160-0N	124-5E	50.	101.	4.6	3.6	3.2	2.9	78.	70.	63.	81.	89.	91.	48.	38.	33.	30.	9.6	1269.
160-0N	123-5E	50.	79.	8.1	6.8	6.2	5.5	84.	77.	68.	81.	91.	89.	45.	38.	34.	30.	18.1	992.
160-0N	122-5E	50.	58.	6.7	5.4	4.7	4.2	81.	70.	63.	78.	87.	89.	48.	39.	34.	30.	16.0	728.
160-0N	121-5E	50.	71.	7.4	6.2	5.5	4.9	86.	74.	66.	79.	89.	89.	46.	38.	34.	30.	16.2	892.
160-0N	120-5E	50.	56.	8.4	7.2	6.4	5.7	86.	76.	68.	79.	89.	89.	45.	38.	34.	30.	18.8	703.
160-0N	119-5E	50.	76.	6.6	5.5	4.9	4.4	83.	74.	67.	80.	89.	90.	46.	38.	34.	30.	14.5	955.
160-0N	118-5E	50.	67.	3.3	2.6	2.5	2.5	79.	76.	76.	96.	96.	100.	43.	34.	32.	32.	7.7	842.
160-0N	117-5E	50.	64.	2.5	2.0	1.9	1.9	80.	76.	76.	95.	95.	100.	43.	34.	32.	32.	5.9	804.
160-0N	116-5E	50.	69.	1.1	0.8	0.7	0.9	73.	64.	82.	112.	87.	129.	43.	31.	28.	35.	2.5	867.
160-0N	115-5E	50.	66.	1.1	0.6	0.7	0.6	55.	64.	55.	100.	117.	86.	56.	30.	35.	30.	2.0	829.
160-0N	114-5E	50.	63.	0.1	0.0	0.1	0.1	0.	100.	100.	0.	0.	100.	38.	0.	38.	38.	0.3	791.
160-0N	113-5E	50.	85.	-0.3	-0.5	-0.2	0.0	167.	67.	0.	0.	40.	0.	71.	119.	48.	0.	-0.4	1080.
160-0N	112-5E	50.	69.	0.2	0.0	0.0	0.0	0.	0.	0.	0.	0.	0.	500.	0.	0.	0.	0.0	867.
160-0N	111-5E	50.	69.	0.9	0.5	0.5	0.5	56.	56.	56.	100.	100.	100.	57.	32.	32.	32.	1.4	867.
160-0N	110-5E	50.	62.	0.6	0.2	0.1	0.0	33.	17.	0.	0.	50.	0.	214.	71.	36.	0.	0.3	779.
160-0N	109-5E	50.	52.	-0.3	-0.4	-0.2	0.0	133.	67.	0.	0.	50.	0.	79.	105.	53.	0.	-0.4	779.
160-0N	108-5E	50.	74.	-0.6	-0.4	-0.3	0.0	67.	50.	0.	0.	75.	0.	115.	77.	58.	0.	-0.5	980.
160-0N	107-5E	50.	200.	0.1	0.0	0.0	0.0	0.	0.	0.	0.	0.	0.	500.	0.	0.	0.	0.0	2512.
160-0N	106-5E	50.	198.	0.3	0.2	0.2	0.0	67.	67.	0.	0.	100.	0.	100.	67.	67.	0.	0.3	2487.

LINE	STATION	I	V	M1	M2	M3	M4	2/1	3/1	4/1	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
100-0N	105+5E	50.	210.	-0.3	-0.3	0.0	0.0	100.	0.	0.	0.	0.	0.	167.	167.	0.	0.	-0.2	2638.
100-0N	104+5E	50.	186.	-0.2	0.0	0.1	0.0	0.	-50.	0.	0.	0.	0.	-500.	0.	250.	0.	0.0	2336.
100-0N	103+5E	50.	195.	0.0	0.0	-0.2	0.1	0.	0.	0.	0.	0.	-50.	0.	0.	0.	0.	0.0	2449.
100-0N	102+5E	50.	201.	-0.4	-0.2	-0.2	0.0	50.	50.	0.	0.	100.	0.	125.	63.	63.	0.	-0.3	2525.
100-0N	101+5E	50.	252.	-0.2	-0.2	0.0	0.0	100.	0.	0.	0.	0.	0.	167.	167.	0.	0.	-0.1	3165.
100-0N	100-5E	50.	208.	0.5	0.3	0.1	0.0	60.	20.	0.	0.	33.	0.	167.	100.	33.	0.	0.3	2612.
102+5N	100+5E	50.	204.	0.6	0.7	0.4	0.1	117.	67.	17.	14.	57.	25.	68.	80.	45.	11.	0.9	2562.
102+5N	101-5E	50.	252.	-0.3	-0.5	-0.2	0.0	167.	67.	0.	0.	40.	0.	71.	119.	40.	0.	-0.4	3165.
102+5N	102+5E	50.	210.	0.0	-0.1	0.0	0.0	0.	0.	0.	0.	0.	0.	0.	250.	0.	0.	-0.0	2638.
102+5N	103+5E	50.	228.	-3.6	-3.7	-0.3	0.0	117.	50.	0.	0.	43.	0.	94.	109.	47.	0.	-0.6	2864.
102+5N	104+5E	50.	210.	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0	2638.
102+5N	105+5E	50.	225.	0.0	-0.1	0.0	0.0	0.	0.	0.	0.	0.	0.	0.	250.	0.	0.	-0.0	2825.
102+5N	106+5E	50.	168.	-0.8	-0.8	-0.4	0.0	100.	50.	0.	0.	50.	0.	100.	100.	50.	0.	-0.8	2110.
102+5N	107+5E	50.	165.	0.4	0.1	0.2	0.3	25.	50.	75.	300.	200.	150.	53.	13.	26.	39.	0.8	2072.
102+5N	108+5E	50.	92.	3.0	0.0	0.0	0.7	0.	0.	0.	0.	0.	0.	0.	0.	0.	63.	0.3	1156.
102+5N	109+5E	50.	70.	-0.3	-0.1	-0.2	0.0	33.	67.	0.	0.	200.	0.	115.	38.	77.	0.	-0.3	879.
102+5N	110+5E	50.	63.	-0.1	-0.3	0.0	0.0	300.	0.	0.	0.	0.	0.	71.	214.	0.	0.	-0.1	854.
102+5N	111+5E	50.	98.	0.0	0.0	0.0	0.2	0.	0.	0.	0.	0.	0.	0.	0.	0.	63.	0.3	1231.
102+5N	112+5E	50.	85.	-1.1	-1.2	-0.9	-0.5	109.	82.	45.	42.	75.	56.	50.	54.	41.	23.	-2.2	1080.
102+5N	113+5E	50.	87.	-0.7	-0.9	-0.6	-0.2	129.	85.	29.	22.	67.	33.	54.	69.	46.	15.	-1.3	1091.
102+5N	114+5E	50.	98.	-0.1	-0.4	-0.1	0.0	133.	33.	0.	0.	25.	0.	100.	133.	33.	0.	-0.3	1231.
102+5N	115+5E	50.	74.	-0.2	-0.5	-0.3	-0.1	250.	150.	50.	20.	60.	33.	31.	78.	47.	16.	-0.6	929.
102+5N	116+5E	50.	89.	0.2	-0.1	0.1	0.2	-50.	50.	100.	-200.	-100.	200.	50.	-25.	25.	50.	0.4	1118.
102+5N	117+5E	50.	69.	1.8	1.4	1.3	1.4	78.	72.	78.	100.	93.	108.	43.	33.	31.	33.	4.2	867.
102+5N	118+5E	50.	79.	5.5	4.5	4.0	3.6	82.	73.	65.	80.	89.	90.	46.	38.	34.	30.	11.9	992.
102+5N	119+5E	50.	67.	6.2	5.2	4.2	3.7	84.	68.	60.	71.	81.	88.	49.	41.	33.	29.	12.6	842.
102+5N	120+5E	50.	97.	7.9	6.7	6.0	5.3	85.	76.	67.	79.	90.	88.	45.	38.	34.	30.	17.5	1093.
102+5N	121+5E	50.	70.	8.2	6.8	6.1	5.4	83.	74.	66.	79.	90.	87.	46.	38.	34.	30.	17.9	879.
102+5N	122+5E	50.	52.	4.7	4.2	3.7	3.5	89.	79.	74.	83.	88.	95.	42.	38.	33.	31.	11.2	653.

SSIC

LINE	STATION	I	V	M1	M2	M3	M4	2/1	3/1	4/1	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
A * I B = ICC. TF = 20. TC = 15.																			
100+DN	124+SE	50.	81.	0.3	0.2	0.1	0.1	67.	33.	33.	50.	50.	100.	79.	53.	26.	26.	0.4	1017.
100+DN	122+SE	50.	97.	-0.9	-0.9	-0.6	-0.3	112.	75.	38.	33.	67.	50.	54.	61.	41.	20.	-1.5	1218.
100+DN	121+SE	50.	125.	-0.2	-0.5	-0.3	0.0	250.	150.	0.	0.	60.	0.	42.	104.	63.	0.	-0.5	1570.
100+DN	120+SE	50.	133.	0.1	-0.1	0.0	0.0	-100.	0.	0.	0.	0.	0.	-500.	500.	0.	0.	-0.0	1294.
100+DN	119+SE	50.	130.	-0.3	-0.2	0.0	-0.1	67.	0.	33.	50.	0.	0.	100.	67.	0.	33.	-0.3	1633.
100+DN	118+SE	50.	53.	-0.2	0.0	0.0	0.0	0.	0.	0.	0.	0.	0.	500.	0.	0.	0.	-0.0	666.
100+DN	117+SE	50.	73.	0.0	0.0	0.0	0.1	0.	0.	0.	0.	0.	0.	0.	0.	0.	63.	0.2	879.
100+DN	116+SE	50.	55.	-0.2	0.0	0.0	0.0	0.	0.	0.	0.	0.	0.	500.	0.	0.	0.	-0.0	691.
100+DN	115+SE	50.	57.	0.6	0.7	0.8	0.8	117.	133.	133.	114.	114.	100.	26.	30.	34.	34.	2.3	716.
100+DN	114+SE	50.	60.	0.7	0.3	0.4	0.5	150.	200.	250.	167.	133.	125.	16.	73.	31.	34.	1.3	754.
100+DN	113+SE	50.	45.	0.0	0.0	0.1	0.2	0.	0.	0.	0.	0.	200.	0.	0.	25.	50.	0.4	565.
100+DN	112+SE	50.	55.	0.1	0.2	0.1	0.3	200.	100.	300.	150.	50.	300.	15.	30.	15.	45.	0.7	691.
100+DN	111+SE	50.	39.	0.4	0.0	0.0	0.1	0.	0.	25.	0.	0.	0.	167.	0.	0.	42.	0.2	490.
100+DN	110+SE	50.	30.	0.0	-0.1	0.0	0.2	0.	0.	0.	-200.	0.	0.	0.	-36.	0.	71.	0.3	377.
100+DN	109+SE	50.	21.	0.0	-0.3	0.0	0.4	0.	0.	0.	-133.	0.	0.	0.	-58.	0.	77.	0.5	764.
100+DN	108+SE	50.	18.	0.2	0.0	0.1	0.2	0.	50.	100.	0.	0.	200.	45.	0.	23.	45.	0.4	276.
100+DN	107+SE	50.	21.	0.2	0.3	0.2	0.3	150.	100.	150.	100.	67.	150.	25.	38.	25.	38.	0.8	264.
100+DN	106+SE	50.	24.	0.9	0.4	0.0	0.0	44.	0.	0.	0.	0.	0.	265.	118.	0.	0.	0.3	301.
100+DN	105+SE	50.	24.	-0.7	-0.4	-0.1	0.0	57.	14.	0.	0.	25.	0.	184.	105.	26.	0.	-0.4	301.
100+DN	104+SE	50.	24.	-0.9	-1.1	-0.7	-0.6	122.	78.	67.	55.	64.	86.	42.	51.	33.	28.	-2.1	301.
100+DN	103+SE	50.	24.	-0.3	-0.2	0.0	-0.1	67.	0.	33.	50.	0.	0.	100.	67.	0.	33.	-0.3	301.
100+DN	102+SE	50.	20.	0.0	-0.2	0.0	0.1	0.	0.	0.	-50.	0.	0.	0.	-250.	0.	125.	0.1	251.
100+DN	101+SE	50.	24.	0.1	0.0	0.2	0.2	0.	200.	200.	0.	0.	100.	20.	0.	40.	40.	0.5	301.
105+DN	102+SE	50.	36.	0.1	0.0	0.0	0.2	0.	0.	200.	0.	0.	0.	29.	0.	0.	59.	0.3	452.
105+DN	103+SE	50.	33.	0.0	0.0	0.0	0.0	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.0	414.
105+DN	104+SE	50.	46.	0.1	0.1	0.1	0.2	100.	100.	200.	200.	100.	200.	22.	22.	27.	43.	0.5	578.
105+DN	105+SE	50.	36.	0.1	0.0	-0.1	0.0	0.	-100.	0.	0.	0.	0.	-167.	0.	167.	0.	-0.1	452.
105+DN	106+SE	50.	36.	-0.5	-0.8	-0.6	-0.3	160.	120.	50.	38.	75.	53.	36.	58.	43.	22.	-1.4	452.
105+DN	107+SE	50.	31.	-0.2	-0.5	-0.2	-0.1	250.	100.	50.	20.	40.	50.	36.	89.	36.	18.	-0.6	389.
105+DN	108+SE	50.	30.	-0.1	-0.2	0.0	0.0	200.	0.	0.	0.	0.	0.	100.	200.	0.	0.	-0.1	377.
105+DN	109+SE	50.	39.	0.3	0.0	0.0	0.1	0.	0.	33.	0.	0.	0.	136.	0.	0.	45.	0.2	490.
105+DN	110+SE	50.	53.	0.2	0.3	0.4	0.5	150.	200.	250.	167.	133.	125.	16.	23.	31.	39.	1.3	666.
105+DN	111+SE	50.	56.	0.4	0.3	0.4	0.5	75.	100.	125.	167.	133.	125.	30.	23.	30.	30.	1.3	703.
105+DN	112+SE	50.	68.	0.0	0.0	0.0	0.2	0.	0.	0.	0.	0.	0.	0.	0.	0.	63.	0.3	854.
105+DN	113+SE	50.	54.	0.0	0.0	0.2	0.3	0.	0.	0.	0.	0.	150.	0.	0.	31.	47.	0.6	678.
105+DN	114+SE	50.	94.	0.7	0.3	0.3	0.4	43.	43.	57.	133.	100.	133.	61.	26.	26.	35.	1.1	1181.
105+DN	115+SE	50.	59.	-0.2	-0.1	0.0	0.0	50.	0.	0.	0.	0.	0.	250.	125.	0.	0.	-0.1	728.
105+DN	116+SE	50.	81.	-0.1	-0.1	0.0	0.1	180.	0.	-100.	-100.	0.	0.	-100.	-100.	0.	100.	0.1	1017.
105+DN	117+SE	50.	135.	0.7	0.2	0.2	0.4	29.	29.	57.	200.	100.	200.	69.	20.	39.	39.	1.0	1696.
105+DN	118+SE	50.	142.	0.0	-0.2	-0.1	0.0	0.	0.	0.	0.	50.	0.	0.	175.	63.	0.	-0.2	1784.
105+DN	119+SE	50.	119.	-0.5	-0.5	-0.4	-0.2	100.	80.	40.	40.	80.	50.	53.	53.	43.	21.	-0.9	1482.
105+DN	120+SE	50.	155.	0.1	0.2	0.3	0.4	200.	300.	400.	200.	150.	133.	10.	20.	31.	41.	1.0	1997.
105+DN	121+SE	50.	134.	-0.6	-0.5	-0.3	-0.1	83.	50.	17.	20.	60.	33.	83.	69.	42.	14.	-0.7	1703.
105+DN	122+SE	50.	134.	-0.2	-0.3	-0.1	0.0	150.	50.	0.	0.	33.	0.	83.	125.	47.	0.	-0.2	1693.
105+DN	123+SE	50.	85.	-0.8	-0.9	-0.4	-0.1	112.	59.	13.	11.	44.	25.	80.	90.	40.	10.	-1.0	1068.
105+DN	124+SE	50.	80.	0.3	0.2	0.1	0.0	67.	33.	0.	0.	50.	0.	136.	91.	45.	0.	0.7	1005.
110+DN	100+SE	50.	40.	0.2	0.1	0.0	0.1	50.	0.	50.	100.	0.	0.	81.	42.	0.	42.	0.2	502.
110+DN	101+SE	50.	45.	0.7	0.4	0.5	0.6	57.	71.	86.	150.	125.	120.	42.	24.	30.	36.	1.7	578.
110+DN	102+SE	50.	42.	0.0	-0.2	0.0	0.0	0.	0.	0.	0.	0.	0.	0.	250.	0.	0.	-0.1	528.
110+DN	103+SE	50.	30.	1.3	0.8	0.7	0.8	62.	54.	62.	100.	87.	114.	54.	33.	29.	33.	2.4	377.
110+DN	104+SE	50.	36.	1.1	0.7	0.6	0.6	64.	55.	55.	86.	86.	100.	57.	35.	31.	31.	1.9	452.
110+DN	105+SE	50.	43.	0.2	0.1	0.2	0.4	50.	100.	200.	400.	200.	200.	23.	11.	23.	45.	0.9	502.
110+DN	106+SE	50.	27.	1.1	0.8	0.9	0.9	73.	82.	82.	112.	112.	100.	41.	30.	33.	33.	2.7	339.

LINE	STATION	I	V	M1	M2	M3	M4	Z/1	3/1	4/1	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
110+CN	107+SE	50.	39.	1.0	0.6	0.6	0.7	60.	60.	70.	117.	100.	117.	49.	29.	29.	34.	2.0	490.
110+CN	108+SE	50.	24.	1.9	1.6	1.5	1.4	84.	79.	74.	87.	94.	93.	43.	36.	34.	31.	4.5	301.
110+CN	109+SE	50.	46.	0.9	0.9	1.0	0.9	100.	111.	100.	100.	111.	90.	32.	32.	36.	32.	2.8	578.
110+CN	110+SE	50.	36.	1.6	1.0	0.8	0.9	62.	50.	56.	90.	80.	112.	57.	36.	29.	32.	2.8	457.
110+CN	111+SE	50.	48.	0.0	0.1	0.3	0.5	0.	0.	0.	500.	300.	167.	0.	9.	28.	46.	1.1	603.
110+CN	112+SE	50.	87.	1.3	1.3	1.3	1.1	100.	100.	85.	85.	100.	85.	36.	36.	36.	31.	3.6	1093.
110+CN	113+SE	50.	70.	1.3	1.1	1.0	0.9	85.	77.	69.	82.	91.	90.	44.	37.	34.	31.	2.9	879.
110+CN	114+SE	50.	93.	1.7	1.0	1.1	1.0	59.	65.	59.	100.	110.	91.	53.	31.	34.	31.	3.7	1118.
110+CN	115+SE	50.	60.	0.1	0.3	0.4	0.4	300.	400.	400.	133.	133.	100.	9.	27.	36.	36.	1.1	754.
110+CN	116+SE	50.	99.	0.0	0.0	0.0	0.1	0.	0.	0.	0.	0.	0.	0.	0.	0.	63.	0.2	1243.
110+CN	117+SE	50.	73.	0.0	0.0	0.0	0.2	0.	0.	0.	0.	0.	0.	0.	0.	0.	63.	0.3	917.
110+CN	118+SE	50.	113.	0.7	0.3	0.2	0.3	43.	29.	43.	100.	67.	150.	78.	33.	22.	33.	0.9	1414.
110+CN	119+SE	50.	146.	0.1	0.0	0.0	0.3	0.	0.	300.	0.	0.	0.	20.	0.	0.	60.	0.5	1834.
110+CN	120+SE	50.	137.	-0.3	-0.5	-0.4	-0.1	167.	133.	33.	20.	80.	25.	41.	68.	54.	14.	-0.7	1670.
110+CN	121+SE	50.	85.	0.0	0.0	0.2	0.4	0.	0.	0.	0.	0.	200.	0.	0.	25.	50.	0.8	1068.
110+CN	122+SE	50.	135.	0.5	0.5	0.7	0.7	100.	140.	140.	140.	140.	100.	25.	25.	35.	35.	2.0	1698.
110+CN	123+SE	50.	80.	0.0	0.2	0.3	0.3	0.	0.	0.	150.	150.	100.	0.	25.	38.	38.	0.8	1005.
110+CN	124+SE	50.	80.	0.5	0.4	0.2	0.3	80.	40.	60.	75.	50.	150.	56.	44.	22.	33.	0.9	1005.
115+CN	124+SE	50.	33.	2.5	1.7	1.6	1.5	68.	64.	60.	88.	94.	94.	51.	35.	33.	31.	4.9	1047.
115+CN	123+SE	50.	90.	0.8	0.5	0.7	0.9	62.	87.	110.	180.	140.	179.	34.	21.	30.	38.	2.4	1130.
115+CN	122+SE	50.	134.	0.7	0.2	0.3	0.4	29.	43.	57.	200.	150.	133.	54.	18.	27.	36.	1.1	1633.
115+CN	121+SE	50.	156.	0.2	0.0	0.1	0.3	0.	50.	150.	0.	0.	300.	33.	0.	17.	50.	0.6	1959.
115+CN	120+SE	50.	180.	0.4	0.1	0.1	0.3	25.	25.	75.	300.	100.	300.	59.	15.	15.	44.	0.7	2761.
115+CN	119+SE	50.	135.	-1.5	-1.1	-0.7	-0.3	73.	47.	20.	27.	64.	43.	84.	62.	39.	17.	-1.8	1698.
115+CN	118+SE	50.	204.	-0.3	-0.5	-0.2	0.0	167.	67.	0.	0.	40.	0.	71.	119.	48.	0.	-0.4	2562.
115+CN	117+SE	50.	73.	-1.9	-1.8	-1.3	-0.8	95.	68.	42.	44.	72.	62.	56.	53.	38.	73.	-3.4	917.
115+CN	116+SE	50.	120.	0.3	0.0	0.0	-0.1	0.	0.	-33.	0.	0.	0.	-300.	0.	0.	100.	-0.1	1507.
115+CN	115+SE	50.	123.	1.3	0.8	0.9	1.0	62.	69.	77.	125.	112.	111.	45.	28.	31.	34.	2.9	1545.
115+CN	114+SE	50.	80.	-0.1	-0.4	-0.2	0.0	400.	200.	0.	0.	50.	0.	29.	118.	59.	0.	-0.3	1005.
115+CN	113+SE	50.	50.	-0.2	-0.1	-0.1	0.0	50.	50.	0.	0.	100.	0.	125.	63.	63.	0.	-0.7	678.
115+CN	112+SE	50.	45.	-0.1	-0.1	-0.1	0.0	100.	100.	0.	0.	100.	0.	71.	71.	71.	0.	-0.1	565.
115+CN	111+SE	50.	39.	0.3	0.0	0.0	0.1	0.	0.	33.	0.	0.	0.	136.	0.	0.	45.	0.2	490.
115+CN	110+SE	50.	33.	2.1	1.3	0.9	0.7	62.	43.	33.	54.	69.	78.	76.	47.	32.	25.	2.8	414.
115+CN	109+SE	50.	19.	-0.5	-0.6	-0.4	-0.2	123.	80.	40.	33.	67.	50.	51.	61.	41.	20.	-1.0	239.
115+CN	108+SE	50.	27.	1.4	0.8	0.8	0.8	57.	57.	57.	100.	100.	100.	56.	32.	32.	32.	2.5	319.
115+CN	107+SE	50.	30.	2.0	1.3	1.2	1.2	65.	60.	60.	92.	92.	100.	53.	34.	32.	32.	3.8	377.
115+CN	106+SE	50.	61.	1.1	0.6	0.5	0.6	55.	45.	55.	100.	83.	120.	60.	33.	27.	33.	1.8	766.
115+CN	105+SE	50.	41.	2.0	1.8	1.5	1.5	90.	75.	75.	83.	83.	100.	47.	38.	32.	37.	4.7	515.
115+CN	104+SE	50.	61.	0.8	0.5	0.4	0.5	62.	50.	62.	100.	80.	125.	54.	34.	27.	34.	1.5	766.
115+CN	103+SE	50.	30.	1.6	0.9	0.6	0.5	56.	37.	31.	56.	67.	83.	82.	46.	31.	26.	2.0	377.
115+CN	102+SE	50.	39.	0.7	0.3	0.3	0.5	43.	43.	71.	167.	100.	167.	54.	23.	23.	38.	1.3	490.
115+CN	101+SE	50.	36.	0.2	0.0	0.2	0.4	0.	100.	200.	0.	0.	200.	24.	0.	24.	48.	0.8	452.
115+CN	100+SE	50.	40.	-0.3	-0.2	0.0	0.3	67.	0.	-100.	-150.	0.	0.	-88.	-59.	0.	88.	0.3	507.
120+CN	76+SE	50.	30.	2.1	1.6	1.2	0.9	76.	57.	43.	56.	75.	75.	61.	46.	35.	26.	3.5	377.
120+CN	73+SE	50.	46.	2.8	1.8	1.5	1.2	64.	54.	43.	67.	83.	80.	64.	41.	34.	27.	4.4	578.
120+CN	74+SE	50.	44.	2.2	1.5	1.0	0.9	68.	45.	41.	60.	67.	90.	67.	46.	30.	27.	3.3	553.
120+CN	75+SE	50.	51.	1.2	0.9	0.8	0.6	75.	67.	50.	67.	89.	75.	55.	41.	36.	27.	2.7	641.
120+CN	76+SE	50.	45.	2.0	1.1	0.6	0.6	55.	30.	30.	55.	55.	100.	88.	48.	26.	76.	2.3	565.
120+CN	77+SE	50.	40.	2.1	1.1	0.6	0.6	52.	32.	29.	55.	73.	75.	85.	45.	33.	24.	2.5	502.
120+CN	73+SE	50.	51.	0.7	0.7	0.7	0.7	100.	100.	100.	100.	100.	100.	33.	33.	33.	33.	2.1	641.
120+CN	75+SE	50.	71.	0.8	0.6	0.7	0.6	75.	87.	75.	100.	117.	86.	47.	31.	36.	31.	1.9	897.
120+CN	80+SE	50.	101.	2.2	1.2	1.0	0.7	55.	45.	32.	58.	83.	70.	77.	47.	35.	25.	2.8	1269.
120+CN	81+SE	50.	71.	1.9	1.0	0.9	0.7	53.	47.	37.	70.	80.	78.	73.	38.	34.	27.	2.6	1143.
120+CN	82+SE	50.	190.	1.6	1.4	1.3	1.1	67.	81.	69.	79.	93.	85.	43.	38.	35.	30.	3.7	2386.
120+CN	83+SE	50.	183.	1.5	1.3	1.1	1.0	67.	73.	67.	77.	85.	91.	45.	39.	33.	30.	3.3	2298.

LINE	STATION	I	V	M1	M2	M3	M4	Z/1	3/1	4/1	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
130+0N	84+5E	50.	150.	1.7	1.4	1.0	0.8	82.	59.	47.	57.	71.	80.	57.	47.	34.	27.	3.0	7010.
130+0N	85+5E	50.	120.	1.5	1.3	1.1	1.0	87.	73.	67.	77.	85.	91.	45.	39.	33.	30.	3.3	1597.
130+0N	86+5E	50.	75.	1.0	0.8	0.7	0.8	80.	70.	80.	100.	87.	114.	42.	34.	30.	34.	2.4	947.
130+0N	87+5E	50.	60.	1.7	1.4	1.0	0.8	82.	59.	47.	57.	71.	80.	57.	47.	34.	27.	3.0	754.
130+0N	88+5E	50.	42.	2.2	1.3	1.0	0.9	59.	45.	41.	69.	77.	90.	69.	41.	31.	28.	3.2	528.
130+0N	89+5E	50.	49.	1.3	0.9	0.7	0.6	69.	54.	46.	67.	78.	86.	61.	42.	33.	28.	2.1	502.
130+0N	90+5E	50.	42.	1.6	0.9	0.7	0.6	56.	44.	37.	67.	78.	86.	71.	41.	37.	27.	2.7	528.
130+0N	91+5E	50.	40.	1.5	1.1	0.6	0.6	71.	40.	40.	55.	55.	100.	69.	50.	28.	28.	2.2	507.
130+0N	92+5E	50.	24.	1.2	0.6	0.6	0.6	50.	50.	50.	100.	100.	100.	63.	31.	31.	31.	1.9	301.
130+0N	93+5E	50.	54.	0.7	0.7	0.6	0.5	100.	86.	71.	71.	86.	83.	41.	41.	35.	29.	1.7	679.
130+0N	94+5E	50.	60.	0.7	0.6	0.5	0.4	66.	71.	57.	67.	83.	80.	49.	42.	35.	28.	1.4	754.
130+0N	95+5E	50.	62.	1.3	1.0	0.8	0.6	77.	62.	46.	60.	00.	75.	58.	44.	35.	27.	2.3	779.
130+0N	96+5E	50.	43.	1.7	1.1	0.9	0.8	65.	53.	47.	73.	82.	89.	61.	40.	32.	29.	2.8	592.
130+0N	97+5E	50.	45.	1.9	1.5	1.2	0.9	79.	62.	47.	60.	80.	75.	56.	44.	36.	27.	3.4	565.
130+0N	98+5E	50.	36.	0.9	0.7	0.8	0.7	78.	89.	70.	100.	114.	87.	41.	32.	36.	32.	2.2	452.
130+0N	99+5E	50.	30.	1.2	0.9	0.8	0.7	75.	67.	58.	78.	89.	87.	51.	38.	34.	30.	2.4	377.
135+0N	90+5E	50.	42.	1.2	1.0	0.8	0.6	83.	67.	50.	60.	80.	75.	54.	45.	36.	27.	2.2	528.
135+0N	91+5E	50.	60.	0.9	0.8	0.7	0.6	89.	78.	67.	75.	87.	86.	45.	40.	35.	30.	2.0	754.
135+0N	92+5E	50.	50.	1.5	1.3	1.0	0.9	87.	82.	60.	69.	77.	90.	49.	42.	33.	29.	3.1	628.
135+0N	93+5E	50.	62.	1.2	1.0	0.8	0.7	83.	67.	58.	70.	80.	87.	50.	47.	33.	29.	2.4	779.
135+0N	94+5E	50.	36.	1.9	1.5	1.2	1.0	79.	63.	53.	67.	80.	83.	54.	42.	34.	28.	3.5	452.
135+0N	95+5E	50.	45.	1.4	1.1	0.8	0.7	79.	57.	50.	64.	73.	87.	58.	44.	32.	28.	2.5	565.
135+0N	96+5E	50.	54.	2.1	1.7	1.1	0.8	81.	52.	38.	47.	65.	73.	64.	52.	34.	25.	3.3	678.
135+0N	97+5E	50.	24.	1.4	1.0	0.8	0.7	71.	57.	50.	70.	80.	87.	57.	41.	33.	29.	2.4	301.
135+0N	98+5E	50.	27.	1.2	1.0	0.7	0.6	83.	58.	50.	60.	70.	86.	56.	46.	32.	28.	2.2	319.
135+0N	99+5E	50.	30.	1.5	1.2	1.0	0.8	80.	67.	53.	67.	83.	80.	52.	42.	35.	28.	2.9	377.
135+0N	00+5E	50.	45.	1.7	1.1	0.8	0.6	65.	47.	35.	55.	73.	75.	71.	46.	34.	25.	2.4	565.
135+0N	01+5E	50.	52.	1.4	1.2	1.0	0.9	63.	53.	47.	75.	83.	90.	61.	39.	32.	29.	3.1	693.
135+0N	02+5E	50.	40.	2.1	1.5	1.2	1.0	71.	57.	48.	67.	80.	83.	59.	42.	34.	28.	3.6	502.
135+0N	03+5E	50.	62.	1.7	1.3	1.1	0.8	76.	65.	47.	62.	85.	73.	56.	43.	36.	26.	3.0	779.
135+0N	04+5E	50.	52.	1.2	1.0	0.8	0.7	81.	67.	58.	70.	80.	87.	50.	42.	33.	29.	2.4	653.
135+0N	05+5E	50.	60.	1.9	1.4	1.2	1.0	74.	63.	53.	71.	80.	83.	54.	40.	34.	29.	3.5	754.
135+0N	06+5E	50.	42.	2.7	2.3	1.8	1.4	85.	67.	52.	61.	78.	78.	53.	45.	35.	27.	5.1	528.
135+0N	07+5E	50.	50.	1.9	1.5	1.3	1.1	79.	68.	58.	73.	87.	85.	50.	40.	34.	29.	3.8	679.
135+0N	08+5E	50.	48.	2.1	1.7	1.2	1.0	81.	57.	48.	54.	71.	83.	57.	46.	33.	27.	3.7	603.
135+0N	09+5E	50.	46.	1.6	1.2	1.0	0.8	75.	62.	50.	67.	83.	80.	56.	42.	35.	28.	2.9	578.
135+0N	10+5E	50.	35.	1.2	1.0	0.8	0.7	83.	67.	58.	70.	80.	87.	50.	42.	33.	29.	2.4	440.
135+0N	11+5E	50.	52.	1.5	1.1	1.0	0.8	73.	67.	53.	73.	91.	80.	51.	39.	35.	28.	2.8	653.
135+0N	12+5E	50.	48.	1.2	0.9	0.8	0.7	75.	67.	58.	78.	89.	87.	51.	38.	34.	30.	2.4	603.
135+0N	13+5E	50.	42.	1.7	1.4	1.2	1.0	82.	71.	59.	71.	86.	83.	49.	40.	35.	29.	3.5	528.
135+0N	14+5E	50.	37.	1.4	1.1	0.9	0.8	76.	64.	57.	73.	82.	89.	51.	40.	33.	29.	2.7	465.
140+0N	55+5E	50.	20.	0.9	0.6	0.7	0.6	67.	76.	67.	100.	117.	86.	46.	31.	36.	31.	1.9	251.
140+0N	56+5E	50.	21.	1.3	1.1	1.2	1.0	85.	92.	77.	91.	109.	83.	40.	34.	37.	31.	3.3	264.
140+0N	57+5E	50.	21.	1.1	0.8	0.7	0.6	73.	64.	55.	75.	87.	86.	53.	39.	34.	29.	2.1	264.
140+0N	58+5E	50.	23.	0.9	1.2	0.9	0.7	133.	100.	78.	58.	75.	78.	36.	48.	36.	28.	2.5	287.
140+0N	59+5E	50.	24.	4.5	4.6	5.1	4.5	94.	104.	92.	98.	111.	88.	35.	33.	36.	32.	14.1	301.
140+0N	60+5E	50.	21.	1.2	1.0	0.9	0.9	83.	75.	75.	90.	90.	100.	43.	36.	32.	32.	2.8	269.
140+0N	61+5E	50.	18.	1.2	1.2	1.0	0.7	100.	83.	58.	58.	83.	70.	45.	45.	38.	27.	2.6	276.
140+0N	62+5E	50.	36.	2.0	1.3	1.2	0.9	65.	60.	45.	69.	92.	75.	60.	39.	36.	27.	3.3	452.
140+0N	63+5E	50.	30.	2.3	1.5	1.1	1.2	65.	48.	52.	80.	73.	109.	60.	39.	28.	31.	3.9	377.
140+0N	64+5E	50.	27.	1.9	1.4	1.0	0.9	74.	53.	47.	64.	71.	90.	60.	44.	31.	28.	3.2	339.
140+0N	65+5E	50.	53.	2.7	1.5	1.0	0.9	56.	37.	33.	60.	67.	90.	80.	44.	30.	27.	3.4	414.
140+0N	66+5E	50.	36.	2.1	1.5	1.1	0.8	71.	52.	38.	53.	73.	73.	66.	47.	35.	25.	3.2	457.
140+0N	67+5E	50.	25.	2.0	1.3	1.0	0.9	65.	50.	45.	69.	77.	90.	63.	41.	37.	28.	3.2	314.
140+0N	68+5E	50.	24.	1.6	1.4	1.3	1.1	87.	81.	69.	79.	93.	85.	43.	38.	35.	30.	3.7	301.

LINE	STATION	I	V	M1	M2	M3	M4	Z/1	3/1	4/1	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
140+0N	85+5E	50.	18.	1.0	1.0	0.9	0.8	100.	90.	80.	80.	90.	89.	38.	38.	35.	31.	2.6	226.
140+0N	84+5E	50.	18.	1.1	1.1	0.9	0.8	100.	82.	73.	73.	82.	89.	41.	41.	34.	30.	2.7	226.
140+0N	83+5E	50.	18.	1.1	0.8	0.8	0.7	73.	73.	64.	87.	100.	87.	48.	35.	35.	30.	2.3	226.
140+0N	82+5E	50.	21.	1.5	1.3	1.0	1.0	87.	67.	67.	77.	77.	100.	47.	40.	31.	31.	3.2	264.
140+0N	81+5E	50.	25.	1.5	1.3	1.2	0.9	87.	80.	60.	69.	92.	75.	47.	40.	37.	28.	3.2	314.
140+0N	80+5E	50.	27.	1.4	1.0	0.8	0.7	71.	57.	50.	70.	80.	87.	57.	41.	33.	29.	2.4	139.
140+0N	79+5E	50.	24.	2.1	1.5	1.0	0.8	71.	48.	38.	53.	67.	80.	68.	48.	32.	26.	3.1	301.
140+0N	78+5E	50.	21.	1.9	1.5	1.2	1.0	79.	63.	53.	67.	80.	89.	54.	42.	34.	28.	3.5	264.
140+0N	75+5E	50.	31.	2.0	1.4	1.3	0.9	70.	65.	45.	64.	93.	69.	58.	41.	38.	26.	3.4	389.
140+0N	74+5E	50.	30.	1.9	1.5	1.2	1.0	79.	63.	53.	67.	80.	83.	54.	42.	34.	28.	3.5	177.
140+0N	73+5E	50.	24.	0.9	0.8	0.6	0.6	87.	67.	67.	75.	75.	100.	46.	41.	31.	31.	1.9	301.
140+0N	72+5E	50.	21.	2.0	1.5	1.2	1.0	75.	60.	50.	67.	80.	83.	56.	42.	34.	28.	3.6	264.
145+0N	72+5E	50.	18.	2.1	1.7	1.3	1.1	81.	62.	52.	65.	76.	85.	54.	44.	33.	28.	3.9	226.
145+0N	73+5E	50.	21.	1.5	1.3	1.1	0.9	87.	73.	60.	69.	85.	87.	48.	43.	35.	29.	3.1	264.
145+0N	74+5E	50.	21.	1.2	1.0	0.8	0.7	83.	67.	58.	70.	80.	87.	50.	43.	33.	29.	2.4	264.
145+0N	75+5E	50.	30.	2.1	1.5	1.2	0.9	71.	57.	43.	60.	80.	75.	61.	44.	35.	26.	3.4	177.
145+0N	76+5E	50.	24.	1.7	1.3	1.1	0.8	76.	65.	47.	62.	85.	73.	56.	43.	36.	26.	3.0	301.
145+0N	77+5E	50.	21.	2.2	1.6	1.2	1.0	73.	55.	45.	62.	75.	83.	60.	44.	33.	27.	3.6	264.
145+0N	80+5E	50.	24.	1.5	1.2	1.0	0.9	80.	67.	60.	75.	83.	90.	50.	40.	33.	30.	3.0	301.
145+0N	81+5E	50.	30.	1.2	1.0	0.9	0.8	93.	75.	67.	80.	90.	89.	45.	38.	34.	30.	2.6	177.
145+0N	82+5E	50.	24.	1.7	1.3	1.2	1.1	76.	71.	65.	85.	92.	92.	47.	36.	34.	31.	3.6	301.
145+0N	83+5E	50.	21.	1.1	0.9	0.8	0.7	82.	73.	64.	78.	84.	87.	47.	38.	34.	30.	2.3	264.
145+0N	84+5E	50.	21.	1.0	0.7	0.6	0.6	70.	60.	60.	80.	86.	100.	52.	36.	31.	31.	1.9	264.
145+0N	85+5E	50.	20.	1.3	1.1	1.0	0.9	85.	77.	69.	82.	91.	90.	44.	37.	34.	31.	2.9	251.
145+0N	86+5E	50.	24.	1.6	1.4	1.3	1.0	87.	81.	62.	71.	93.	77.	45.	40.	37.	28.	3.6	301.
145+0N	87+5E	50.	30.	1.4	1.0	0.9	0.8	71.	64.	57.	80.	90.	89.	52.	37.	34.	30.	2.7	177.
145+0N	88+5E	50.	30.	2.0	1.3	1.0	0.9	65.	50.	45.	69.	77.	90.	63.	41.	32.	28.	3.2	452.
145+0N	89+5E	50.	30.	2.2	1.4	1.0	0.9	64.	45.	41.	64.	71.	90.	68.	43.	31.	28.	3.2	177.
145+0N	90+5E	50.	33.	1.7	1.1	1.0	0.8	65.	59.	47.	73.	91.	80.	59.	38.	35.	28.	2.9	414.
145+0N	91+5E	50.	30.	2.0	1.3	1.2	0.9	65.	60.	45.	69.	92.	75.	60.	39.	36.	27.	3.3	177.
145+0N	92+5E	50.	27.	2.1	1.5	1.2	1.0	76.	57.	48.	62.	75.	83.	58.	44.	33.	28.	3.6	177.
145+0N	93+5E	50.	21.	1.5	1.5	1.1	1.0	79.	58.	53.	67.	73.	91.	55.	43.	32.	29.	3.5	264.
145+0N	94+5E	50.	21.	1.2	1.0	0.9	0.8	83.	75.	67.	80.	90.	84.	45.	38.	34.	30.	2.6	264.
145+0N	95+5E	50.	23.	1.6	1.4	1.1	0.8	87.	69.	50.	57.	79.	73.	53.	46.	36.	26.	3.0	289.
145+0N	96+5E	50.	24.	1.4	1.0	0.7	0.6	71.	50.	43.	60.	70.	86.	64.	45.	32.	27.	2.2	301.
145+0N	97+5E	50.	21.	0.9	0.7	0.6	0.7	78.	67.	72.	100.	86.	117.	44.	34.	29.	34.	2.1	264.
145+0N	98+5E	50.	20.	1.3	1.1	0.8	0.7	85.	62.	54.	64.	73.	87.	53.	45.	33.	28.	2.5	251.
145+0N	99+5E	50.	21.	1.5	1.2	1.0	0.8	80.	67.	53.	67.	83.	80.	52.	42.	35.	28.	2.9	264.
150+0N	99+5E	50.	21.	1.2	0.9	0.8	0.7	75.	67.	58.	78.	89.	87.	51.	38.	34.	30.	2.4	264.
150+0N	98+5E	50.	24.	1.4	1.2	1.0	0.8	80.	71.	57.	67.	83.	80.	49.	42.	35.	28.	2.8	301.
150+0N	97+5E	50.	20.	1.9	1.5	1.2	1.0	79.	63.	53.	67.	83.	83.	54.	42.	34.	28.	3.5	251.
150+0N	96+5E	50.	18.	1.3	1.0	1.0	0.8	77.	71.	62.	80.	100.	80.	47.	36.	36.	29.	2.7	226.
150+0N	95+5E	50.	19.	1.4	1.3	0.9	0.9	53.	64.	64.	69.	69.	100.	47.	44.	30.	30.	3.0	226.
150+0N	94+5E	50.	30.	-1.0	-1.0	-0.1	0.0	100.	10.	0.	0.	10.	0.	147.	147.	15.	0.	-0.7	177.
150+0N	93+5E	50.	21.	1.7	1.3	1.0	0.9	76.	55.	53.	69.	77.	90.	55.	42.	32.	29.	3.1	264.
150+0N	92+5E	50.	18.	1.2	0.8	0.8	0.8	67.	67.	67.	100.	100.	100.	48.	32.	32.	32.	2.5	226.
150+0N	91+5E	50.	19.	2.1	1.8	1.3	1.2	86.	62.	57.	67.	77.	92.	51.	44.	32.	29.	4.1	239.
150+0N	90+5E	50.	24.	0.5	1.0	0.8	0.8	111.	89.	89.	80.	80.	100.	36.	40.	32.	32.	2.5	301.
150+0N	89+5E	50.	27.	1.5	0.8	0.6	0.7	53.	40.	37.	87.	75.	117.	68.	36.	27.	32.	2.2	139.
150+0N	88+5E	50.	40.	1.9	1.1	0.8	0.7	52.	42.	37.	64.	73.	87.	74.	43.	31.	27.	2.6	502.
150+0N	87+5E	50.	50.	0.8	0.7	0.7	0.7	112.	87.	87.	78.	78.	100.	76.	41.	32.	32.	2.2	628.
150+0N	86+5E	50.	42.	2.7	1.9	1.5	1.3	67.	56.	40.	72.	83.	87.	59.	40.	33.	29.	4.5	528.
150+0N	85+5E	50.	30.	2.0	1.3	0.9	0.8	65.	45.	40.	62.	69.	84.	68.	45.	31.	27.	2.9	177.
150+0N	84+5E	50.	42.	2.4	1.5	1.2	1.0	67.	50.	42.	67.	80.	83.	66.	41.	33.	27.	3.6	528.
150+0N	83+5E	50.	30.	2.0	1.0	1.0	1.0	50.	50.	50.	100.	100.	100.	63.	31.	31.	31.	3.2	177.

LINE	STATION	I	V	M1	M2	M3	M4	Z/1	3/1	4/1	4/2	3/2	4/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
150-CV	82-5E	50.	49.	2.0	1.7	1.5	1.3	85.	75.	65.	76.	88.	87.	46.	39.	34.	30.	4.4	615.
150-CV	81-5E	50.	28.	2.5	1.6	1.3	1.2	64.	52.	48.	75.	81.	92.	61.	39.	32.	29.	4.1	352.
150-CV	80-5E	50.	36.	3.2	2.1	1.7	1.5	66.	53.	47.	71.	81.	88.	61.	40.	32.	29.	5.2	452.
150-CV	79-5E	50.	21.	1.9	1.8	1.2	1.4	95.	63.	74.	78.	67.	117.	44.	42.	28.	33.	4.3	264.
150-CV	78-5E	50.	21.	1.4	1.4	1.2	1.0	100.	86.	71.	71.	86.	83.	41.	41.	35.	79.	3.4	264.
150-CV	77-5E	50.	21.	2.1	1.6	1.4	1.1	76.	67.	52.	69.	87.	79.	53.	41.	36.	28.	3.9	264.
150-CV	74-5F	50.	31.	2.5	1.9	1.5	1.3	74.	60.	52.	68.	79.	87.	55.	42.	33.	29.	4.5	389.
150-CV	73-5E	50.	30.	2.1	1.6	1.3	1.0	76.	62.	48.	62.	81.	77.	57.	43.	35.	77.	3.7	377.
150-CV	72-5E	50.	27.	1.4	1.0	0.8	0.8	71.	57.	57.	80.	80.	100.	54.	38.	31.	31.	2.6	339.
155-CV	72-5E	50.	27.	1.5	1.1	0.9	0.8	58.	47.	42.	73.	82.	89.	67.	39.	32.	28.	2.8	339.
155-CV	71-5E	50.	30.	2.1	1.5	1.2	1.0	71.	57.	48.	67.	80.	83.	59.	42.	34.	28.	3.6	377.
155-CV	74-5E	50.	21.	2.6	1.5	1.2	1.0	58.	46.	59.	67.	80.	83.	71.	41.	33.	27.	3.7	264.
155-CV	77-5E	50.	27.	2.1	1.7	1.1	0.8	81.	52.	38.	47.	65.	73.	64.	52.	34.	75.	3.3	339.
155-CV	78-5E	50.	30.	1.6	1.3	1.2	0.9	81.	75.	56.	69.	92.	75.	49.	40.	37.	28.	3.2	177.
155-CV	75-5E	50.	37.	2.1	1.4	1.2	1.0	67.	57.	48.	71.	86.	83.	59.	40.	34.	28.	3.5	465.
155-CV	60-5E	50.	42.	1.8	1.5	1.2	1.0	83.	67.	56.	67.	80.	83.	51.	43.	34.	25.	3.5	523.
155-CV	81-5E	50.	45.	0.9	0.8	0.9	0.7	89.	100.	75.	87.	112.	78.	38.	34.	38.	30.	2.3	565.
155-CV	82-5E	50.	60.	1.2	1.0	1.0	1.0	83.	83.	93.	100.	100.	100.	39.	33.	33.	33.	3.0	754.
155-CV	93-5E	50.	65.	2.4	1.7	1.0	1.0	71.	42.	42.	59.	59.	100.	67.	48.	28.	78.	3.6	815.
155-CV	84-5E	50.	70.	2.0	1.5	1.2	1.0	75.	60.	50.	67.	80.	83.	56.	42.	34.	28.	3.6	874.
155-CV	85-5E	50.	45.	1.7	1.4	1.1	0.9	82.	65.	47.	57.	79.	73.	56.	46.	36.	26.	3.1	565.
155-CV	86-5E	50.	37.	0.9	0.7	0.8	0.6	67.	100.	75.	86.	114.	75.	39.	34.	39.	29.	2.0	465.
155-CV	87-5E	50.	60.	1.6	1.2	1.0	0.9	75.	62.	56.	75.	83.	90.	53.	39.	33.	30.	3.0	754.
155-CV	88-5E	50.	45.	1.8	1.2	1.0	0.9	67.	56.	50.	75.	83.	90.	58.	39.	32.	29.	3.1	565.
155-CV	89-5E	50.	60.	1.2	1.0	0.7	0.7	83.	58.	58.	70.	70.	100.	52.	43.	30.	30.	2.3	754.
155-CV	90-5E	50.	40.	0.9	0.9	0.7	0.8	100.	78.	89.	89.	79.	114.	38.	38.	29.	34.	2.4	502.
155-CV	91-5E	50.	33.	1.9	1.5	1.2	1.0	79.	63.	53.	67.	80.	83.	54.	42.	34.	28.	3.5	414.
155-CV	92-5E	50.	24.	1.2	1.0	0.8	0.7	83.	67.	53.	70.	80.	87.	50.	42.	33.	29.	2.4	301.
155-CV	93-5E	50.	21.	1.4	1.0	0.7	0.9	71.	50.	57.	80.	70.	114.	56.	40.	28.	32.	2.5	264.
155-CV	94-5E	50.	20.	1.9	1.1	0.8	0.8	58.	42.	42.	73.	73.	100.	69.	40.	29.	29.	2.7	251.
155-CV	95-5E	50.	24.	2.1	1.5	1.2	1.0	71.	57.	48.	67.	80.	83.	59.	42.	34.	28.	3.6	301.
155-CV	96-5E	50.	30.	1.7	1.3	1.1	0.9	76.	65.	47.	62.	85.	73.	56.	43.	36.	26.	3.0	377.
155-CV	97-5E	50.	27.	0.9	0.8	0.7	0.6	89.	78.	67.	75.	87.	86.	45.	40.	35.	33.	2.0	339.
155-CV	98-5E	50.	21.	1.7	1.3	0.9	0.8	59.	53.	47.	80.	90.	89.	62.	36.	33.	29.	2.7	264.
155-CV	99-5E	50.	21.	1.2	0.9	0.8	0.7	75.	67.	59.	78.	89.	87.	51.	38.	34.	30.	2.4	264.
160-CV	64-5E	100.	21.	3.7	3.3	3.1	2.6	89.	84.	73.	79.	94.	84.	43.	38.	36.	30.	8.7	132.
160-CV	65-5E	220.	27.	2.0	1.0	0.8	0.7	50.	40.	35.	70.	80.	87.	78.	39.	31.	27.	2.6	77.
160-CV	66-5E	100.	15.	0.9	1.0	0.8	0.6	111.	89.	67.	60.	80.	75.	41.	46.	37.	28.	2.2	94.
160-CV	67-5E	100.	21.	1.1	1.1	1.1	0.9	100.	100.	82.	82.	100.	82.	37.	37.	30.	30.	3.0	132.
160-CV	70-5E	50.	150.	2.7	2.1	1.6	1.1	78.	59.	41.	52.	76.	69.	61.	48.	36.	75.	4.4	1884.
160-CV	71-5E	50.	170.	3.0	2.0	1.5	1.2	67.	50.	40.	60.	75.	80.	66.	44.	33.	27.	4.5	1507.
160-CV	72-5E	50.	33.	2.2	1.6	1.4	1.1	73.	64.	50.	69.	87.	75.	56.	40.	35.	28.	4.0	414.
160-CV	73-5E	50.	31.	2.5	1.7	1.5	1.2	59.	52.	41.	71.	68.	80.	66.	39.	34.	27.	4.4	399.
160-CV	74-5E	50.	43.	3.0	1.8	1.5	1.1	60.	50.	37.	61.	81.	73.	70.	47.	35.	26.	4.3	543.
160-CV	75-5E	50.	58.	0.7	0.6	0.5	0.3	86.	71.	43.	50.	83.	60.	56.	48.	40.	24.	1.3	728.
160-CV	76-5E	50.	84.	1.5	1.4	1.2	1.0	93.	80.	67.	71.	86.	83.	44.	41.	35.	29.	3.4	1055.
160-CV	77-5E	50.	73.	2.1	1.5	1.2	1.1	76.	57.	52.	65.	75.	92.	56.	42.	32.	29.	3.8	917.
160-CV	78-5E	50.	99.	2.7	1.7	1.4	1.1	63.	52.	41.	65.	82.	75.	66.	41.	34.	27.	4.1	1243.
160-CV	79-5E	40.	104.	2.7	1.7	1.2	1.0	63.	44.	37.	59.	71.	83.	71.	45.	32.	26.	3.8	1633.
160-CV	80-5E	30.	70.	1.9	1.5	1.1	0.9	79.	58.	47.	60.	73.	82.	59.	45.	33.	27.	3.3	1465.
160-CV	81-5E	50.	118.	2.7	1.7	1.3	1.2	63.	48.	44.	71.	75.	92.	65.	41.	31.	29.	4.2	1482.
160-CV	82-5E	50.	132.	1.7	1.1	0.8	0.6	59.	42.	32.	55.	73.	75.	79.	45.	33.	25.	2.4	1670.
160-CV	83-5E	30.	72.	1.6	1.3	1.0	0.9	81.	62.	56.	69.	77.	90.	52.	42.	32.	29.	3.1	1507.
160-CV	84-5E	50.	120.	1.5	1.1	1.0	0.9	73.	67.	60.	82.	91.	90.	50.	37.	34.	30.	3.0	2261.
160-CV	85-5E	50.	145.	0.9	0.7	0.5	0.5	78.	56.	56.	71.	71.	100.	54.	42.	30.	30.	1.7	2449.

LINE	STATION	I	V	M1	M2	M3	M4	Z/1	Z/1	Z/1	Z/2	Z/2	Z/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
160+0N	66+5E	50.	216.	12.7	6.3	2.7	1.1	50.	21.	9.	17.	43.	41.	141.	70.	30.	12.	9.0	2713.
160+0N	67+5E	50.	258.	1.7	0.9	0.8	0.6	53.	47.	35.	67.	89.	75.	74.	39.	35.	26.	2.3	3740.
160+0N	68+5E	50.	156.	0.3	0.2	0.3	0.3	67.	100.	100.	150.	150.	100.	35.	23.	35.	35.	0.9	1959.
160+0N	69+5E	50.	255.	1.0	0.7	0.6	0.6	70.	60.	60.	86.	86.	100.	52.	76.	31.	31.	1.9	3203.
160+0N	70+5E	50.	204.	1.3	0.9	0.8	0.7	69.	62.	54.	78.	89.	87.	55.	38.	34.	29.	2.4	2562.
160+0N	71+5E	40.	141.	0.8	0.7	0.7	0.6	67.	87.	75.	86.	100.	85.	41.	36.	36.	31.	2.0	2214.
160+0N	72+5E	50.	234.	1.4	1.1	1.0	0.8	79.	71.	57.	73.	91.	80.	50.	39.	36.	29.	2.8	2939.
160+0N	73+5E	50.	225.	1.2	1.1	0.9	0.8	92.	75.	67.	73.	82.	85.	45.	41.	34.	30.	2.7	2826.
160+0N	74+5E	50.	204.	1.0	0.8	0.7	0.6	80.	70.	60.	75.	87.	86.	49.	39.	34.	29.	2.0	2562.
160+0N	75+5E	50.	250.	1.6	1.1	0.9	0.7	69.	56.	44.	64.	82.	78.	62.	42.	35.	27.	2.6	3140.
160+0N	76+5E	50.	162.	1.4	1.0	0.8	0.7	71.	57.	50.	70.	80.	87.	57.	41.	33.	29.	2.4	2035.
160+0N	77+5E	50.	270.	1.3	0.9	0.8	0.6	65.	62.	46.	67.	89.	75.	59.	41.	36.	27.	2.2	2512.
160+0N	78+5E	50.	170.	0.8	0.6	0.4	0.4	75.	50.	50.	67.	67.	100.	54.	44.	29.	29.	1.4	2135.
160+0N	79+5E	50.	150.	0.7	0.5	0.4	0.3	71.	57.	43.	60.	80.	75.	61.	44.	35.	26.	1.1	1894.
165+0N	55+5E	50.	270.	0.7	0.6	0.5	0.4	86.	71.	57.	67.	83.	80.	49.	42.	35.	28.	1.4	2512.
165+0N	56+5E	50.	150.	1.2	0.8	0.6	0.6	67.	50.	50.	75.	75.	100.	60.	40.	30.	10.	2.0	1984.
165+0N	57+5E	50.	150.	1.0	0.5	0.6	0.5	80.	50.	50.	67.	73.	83.	56.	44.	33.	28.	1.8	1864.
165+0N	58+5E	50.	200.	0.9	0.7	0.7	0.6	70.	78.	67.	66.	100.	85.	45.	35.	35.	30.	2.0	2512.
165+0N	59+5E	50.	222.	1.1	0.9	0.9	0.8	82.	82.	73.	89.	100.	89.	43.	35.	35.	31.	2.6	2789.
165+0N	60+5E	50.	180.	1.4	1.3	1.1	1.0	93.	75.	71.	77.	85.	91.	43.	40.	34.	30.	3.3	2261.
165+0N	61+5E	50.	242.	2.4	1.4	1.2	1.0	58.	50.	42.	71.	85.	83.	67.	39.	33.	29.	3.6	3540.
165+0N	62+5E	50.	255.	2.2	1.4	1.2	0.9	64.	55.	41.	64.	86.	75.	65.	41.	35.	26.	3.4	3273.
165+0N	63+5E	50.	215.	2.2	1.4	1.1	1.0	64.	50.	45.	71.	79.	91.	63.	40.	32.	29.	3.5	3958.
165+0N	64+5E	30.	378.	2.1	1.3	1.0	0.8	62.	48.	36.	62.	77.	80.	70.	43.	33.	26.	3.0	2913.
165+0N	65+5E	20.	414.	2.2	1.5	1.2	1.0	68.	55.	45.	67.	80.	83.	61.	47.	33.	28.	3.1	13700.
165+0N	66+5E	25.	327.	2.3	1.4	1.2	1.0	61.	52.	43.	71.	86.	83.	64.	39.	34.	28.	3.6	3214.
165+0N	67+5E	30.	375.	2.5	1.5	1.2	1.0	60.	43.	40.	67.	80.	83.	60.	41.	33.	27.	3.7	2850.
165+0N	68+5E	70.	439.	1.8	1.3	1.2	1.0	72.	67.	56.	77.	92.	83.	52.	38.	35.	24.	3.4	3024.
165+0N	69+5E	60.	237.	1.5	1.1	1.0	0.8	73.	67.	53.	73.	91.	80.	53.	39.	35.	28.	2.9	2481.
165+0N	70+5E	70.	306.	2.3	1.4	1.1	0.9	61.	48.	39.	64.	79.	82.	69.	42.	33.	27.	3.3	2745.
165+0N	71+5E	70.	303.	1.5	1.2	1.0	0.9	80.	67.	60.	75.	83.	40.	50.	40.	33.	30.	3.0	2714.
165+0N	72+5E	50.	250.	1.3	1.1	0.9	0.8	65.	69.	62.	73.	82.	89.	48.	41.	33.	30.	2.7	3140.
165+0N	73+5E	50.	213.	1.7	1.3	1.1	0.9	76.	65.	53.	69.	85.	82.	53.	41.	35.	28.	3.2	2675.
165+0N	74+5E	50.	234.	1.4	1.3	1.1	0.9	93.	75.	64.	69.	85.	82.	45.	42.	35.	29.	3.1	2562.
165+0N	75+5E	50.	162.	1.2	1.1	1.0	0.9	92.	83.	67.	73.	91.	80.	43.	40.	36.	29.	2.8	2035.
165+0N	76+5E	50.	110.	1.9	1.0	0.9	0.7	53.	41.	37.	70.	90.	78.	73.	38.	34.	27.	2.6	1382.
165+0N	77+5E	50.	134.	1.2	1.3	1.1	0.9	72.	61.	50.	69.	85.	82.	56.	41.	34.	29.	3.2	1483.
165+0N	78+5E	50.	210.	1.8	1.3	1.2	1.0	72.	67.	56.	77.	92.	83.	52.	38.	35.	24.	3.4	2633.
165+0N	79+5E	50.	138.	1.3	1.1	1.0	0.9	85.	77.	69.	82.	91.	90.	44.	37.	34.	31.	2.9	1733.
165+0N	80+5E	50.	171.	2.1	1.6	1.4	1.2	76.	67.	57.	75.	87.	86.	51.	39.	34.	29.	4.1	2148.
165+0N	81+5E	50.	100.	3.0	1.7	1.2	1.0	57.	43.	31.	55.	76.	77.	77.	43.	33.	26.	3.9	1256.
165+0N	82+5E	50.	90.	2.5	1.8	1.4	1.0	72.	56.	40.	56.	78.	71.	63.	46.	36.	25.	3.9	1130.
165+0N	83+5E	50.	147.	3.2	2.2	1.6	1.3	60.	50.	41.	55.	73.	81.	66.	45.	33.	27.	4.9	1846.
165+0N	84+5E	50.	140.	3.1	2.3	1.8	1.5	74.	58.	48.	65.	78.	83.	58.	43.	33.	21.	5.4	1871.
165+0N	85+5E	50.	155.	3.5	2.2	1.8	1.5	63.	51.	43.	68.	82.	83.	65.	41.	33.	28.	5.4	1319.
165+0N	86+5E	50.	42.	4.6	3.2	2.5	1.9	70.	54.	41.	59.	73.	76.	64.	44.	35.	26.	7.2	524.
165+0N	87+5E	50.	18.	2.7	2.3	1.9	1.6	65.	70.	59.	70.	83.	84.	49.	42.	34.	29.	5.5	726.
165+0N	88+5E	100.	21.	2.2	1.7	1.3	1.1	77.	69.	60.	65.	76.	85.	56.	43.	33.	29.	3.5	137.
170+0N	54+5E	30.	186.	0.2	0.2	0.2	0.2	100.	100.	100.	100.	100.	100.	33.	33.	33.	33.	0.6	3894.
170+0N	55+5E	50.	188.	1.4	1.2	1.1	1.0	84.	79.	71.	83.	92.	91.	43.	37.	34.	31.	3.2	2110.
170+0N	56+5E	50.	215.	1.2	1.2	1.0	0.9	100.	83.	75.	75.	83.	50.	41.	34.	30.	3.0	2713.	
170+0N	57+5E	50.	234.	1.4	1.4	1.2	1.1	87.	75.	69.	75.	86.	92.	44.	39.	33.	31.	3.6	2939.
170+0N	58+5E	50.	109.	2.2	1.4	1.1	1.0	64.	50.	45.	71.	79.	91.	63.	40.	32.	29.	3.5	1360.
170+0N	59+5E	50.	273.	1.7	1.1	1.0	0.8	65.	55.	47.	73.	91.	80.	59.	38.	35.	28.	2.9	3429.
170+0N	60+5E	30.	162.	1.0	0.8	0.7	0.7	80.	70.	70.	87.	87.	100.	55.	36.	32.	32.	2.2	3391.

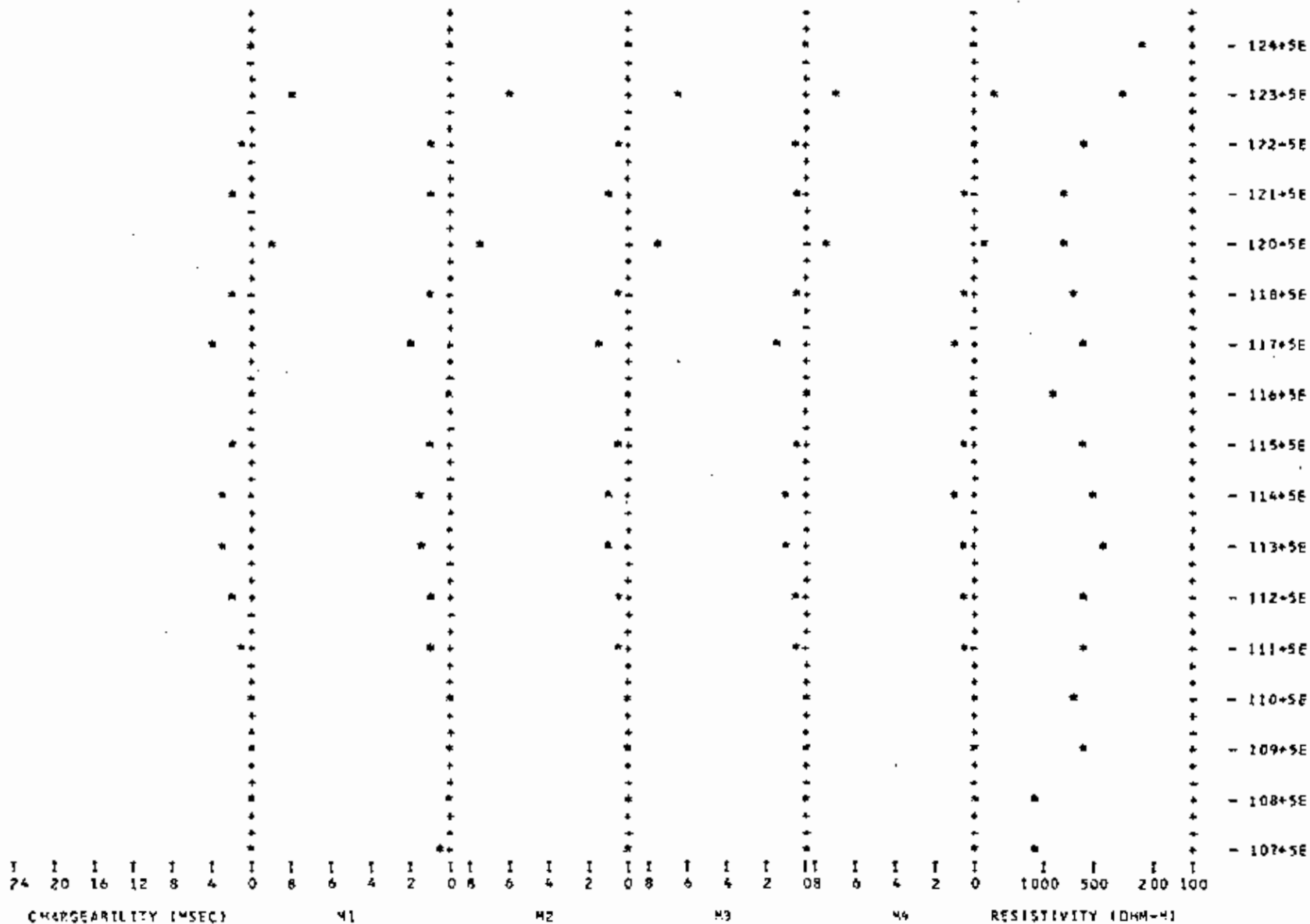
LINE	STATION	I	V	M1	M2	M3	M4	Z/1	Z/1	Z/1	Z/2	Z/2	Z/3	M1/CV	M2/CV	M3/CV	M4/CV	CV	RESISTIVITY
170-CN	92-5E	50.	342.	2.2	1.4	1.1	0.9	61.	48.	39.	64.	79.	82.	69.	42.	33.	27.	2.3	4256.
170-CN	91+5E	50.	444.	2.2	1.5	1.2	1.0	62.	55.	45.	67.	80.	83.	61.	42.	33.	28.	3.6	5577.
170-CN	90+5E	40.	138.	1.6	0.9	0.6	0.6	56.	37.	37.	67.	67.	100.	75.	42.	28.	28.	2.1	2167.
170-CN	89+5E	50.	558.	0.8	0.8	0.6	0.5	100.	75.	62.	62.	75.	83.	45.	45.	34.	28.	1.8	7008.
170-CN	88+5E	50.	357.	2.0	1.2	0.9	0.8	60.	45.	40.	67.	75.	89.	69.	42.	31.	28.	2.9	4484.
170-CN	87+5E	10.	100.	1.9	1.3	1.1	1.0	68.	58.	53.	77.	85.	91.	56.	38.	33.	30.	3.4	6290.
170-CN	86+5E	50.	411.	1.7	1.0	0.7	0.7	59.	41.	41.	70.	70.	100.	70.	41.	29.	29.	2.4	5162.
170-CN	85+5E	10.	57.	0.1	0.0	0.1	0.1	0.	100.	100.	0.	0.	100.	38.	0.	39.	30.	0.3	3378.
170-CN	84+5E	50.	480.	2.0	1.2	0.9	0.8	60.	45.	40.	67.	75.	89.	69.	42.	31.	28.	2.9	6079.
170-CN	83+5E	40.	330.	1.9	0.9	0.8	0.7	47.	42.	37.	78.	89.	87.	76.	36.	32.	28.	2.5	5181.
170-CN	82+5E	50.	450.	2.2	1.3	0.9	0.8	59.	41.	36.	62.	69.	89.	74.	44.	30.	27.	3.0	5652.
170-CN	81+5E	50.	510.	1.7	1.2	1.1	0.9	71.	65.	53.	75.	92.	87.	54.	38.	35.	29.	3.1	6400.
170-CN	80+5E	50.	561.	2.5	1.6	1.2	1.0	64.	46.	40.	62.	75.	83.	68.	43.	32.	27.	3.7	7044.
170-CN	79+5E	50.	489.	2.4	1.5	1.1	1.0	63.	46.	42.	67.	73.	91.	67.	42.	31.	28.	3.6	6147.
170-CN	78+5E	50.	423.	2.8	1.9	1.4	1.2	68.	50.	43.	63.	74.	86.	64.	44.	32.	28.	4.4	5313.
170-CN	77+5E	50.	195.	2.0	1.6	1.4	1.1	00.	10.	55.	69.	87.	79.	51.	41.	36.	28.	3.9	7449.
170-CN	76+5E	50.	74.	1.5	1.2	1.1	0.9	80.	73.	60.	75.	92.	82.	48.	39.	35.	29.	3.1	929.
170-CN	75+5E	50.	85.	2.0	1.2	1.1	0.9	60.	55.	45.	75.	92.	82.	63.	37.	34.	28.	3.2	1068.
170-CN	74+5E	50.	76.	2.5	1.7	1.4	1.2	68.	56.	48.	71.	82.	86.	59.	40.	33.	28.	4.7	959.
170-CN	73+5E	50.	136.	3.4	2.4	1.9	1.6	71.	56.	47.	67.	79.	84.	59.	42.	33.	28.	5.7	1708.
170-CN	72+5E	50.	102.	4.4	3.2	2.6	2.1	73.	56.	48.	66.	81.	81.	58.	42.	34.	28.	7.6	1281.
170-CN	71+5E	50.	168.	5.5	4.5	3.7	3.0	82.	67.	55.	67.	82.	81.	52.	42.	35.	28.	10.7	2110.
170-CN	70+5E	50.	158.	5.8	4.5	3.5	3.3	78.	67.	57.	73.	87.	85.	51.	40.	34.	29.	11.4	2110.
170-CN	69+5E	50.	25.	3.3	2.6	2.2	1.9	75.	70.	58.	73.	88.	83.	51.	40.	35.	29.	6.4	314.
170-CN	67+5E	100.	15.	1.2	1.0	0.8	0.6	83.	67.	50.	60.	80.	75.	54.	45.	36.	27.	2.2	94.
175-CN	67+5E	50.	30.	2.6	2.2	1.5	1.0	85.	58.	38.	45.	68.	67.	62.	52.	36.	24.	4.2	377.
175-CN	70+5E	50.	54.	2.1	1.0	1.2	0.9	48.	57.	43.	90.	120.	75.	65.	31.	37.	29.	3.2	673.
175-CN	71+5E	50.	56.	1.8	1.6	1.3	1.2	89.	72.	67.	75.	81.	92.	45.	40.	33.	30.	4.0	703.
175-CN	72+5E	50.	68.	2.3	2.0	1.6	1.4	87.	70.	61.	70.	80.	87.	48.	42.	33.	29.	4.8	854.
175-CN	73+5E	50.	33.	2.1	2.1	1.7	1.4	68.	55.	45.	67.	81.	82.	61.	42.	34.	28.	5.1	414.
175-CN	74+5E	50.	72.	2.5	2.3	1.8	1.5	92.	72.	60.	65.	78.	83.	60.	44.	34.	29.	5.3	904.
175-CN	75+5E	75.	16.	6.3	6.1	5.4	4.9	97.	86.	78.	80.	89.	91.	40.	39.	34.	31.	15.9	134.
175-CN	76+5E	50.	24.	2.0	1.5	1.2	1.0	75.	60.	50.	67.	80.	83.	56.	42.	34.	28.	3.6	301.
175-CN	77+5E	50.	27.	2.1	1.3	1.1	0.9	62.	52.	43.	69.	85.	82.	64.	40.	34.	28.	1.3	339.
175-CN	78+5E	50.	37.	2.2	1.3	0.9	0.8	59.	41.	36.	62.	69.	89.	74.	44.	30.	27.	3.0	414.
175-CN	79+5E	50.	36.	2.1	1.1	0.7	0.7	52.	33.	33.	64.	64.	100.	33.	63.	28.	28.	2.5	452.
175-CN	80+5E	50.	27.	1.2	0.7	0.6	0.5	58.	50.	42.	71.	86.	83.	67.	39.	33.	28.	1.8	339.
175-CN	81+5E	50.	303.	2.4	1.5	1.1	0.9	63.	46.	38.	60.	73.	82.	71.	44.	32.	26.	3.4	3806.
175-CN	82+5E	50.	270.	1.8	1.3	1.1	0.9	72.	61.	50.	69.	85.	82.	56.	41.	34.	28.	3.2	3391.
175-CN	83+5E	50.	333.	2.2	1.4	1.2	1.0	64.	55.	45.	71.	86.	83.	62.	39.	34.	28.	3.6	4182.
175-CN	84+5E	50.	309.	1.9	0.9	0.7	0.6	60.	47.	40.	67.	78.	86.	64.	41.	32.	28.	2.7	3981.
175-CN	85+5E	50.	243.	1.6	1.2	1.1	0.9	75.	69.	56.	75.	92.	87.	51.	38.	35.	29.	3.1	1052.
175-CN	86+5E	50.	171.	1.3	1.1	1.0	0.8	85.	77.	62.	73.	91.	80.	47.	40.	36.	29.	2.8	2148.
175-CN	87+5E	50.	213.	0.3	0.3	0.4	0.5	100.	133.	167.	167.	133.	125.	23.	23.	31.	38.	1.3	2675.
175-CN	89+5E	50.	160.	0.9	0.8	0.7	0.6	89.	78.	67.	75.	87.	86.	45.	40.	35.	30.	2.0	2010.
175-CN	85+5E	50.	278.	1.0	1.0	0.9	0.7	100.	90.	70.	70.	90.	78.	41.	41.	37.	29.	7.4	2854.
175-CN	90+5E	50.	376.	2.1	1.3	1.0	0.9	67.	48.	43.	69.	77.	90.	66.	41.	31.	28.	3.2	6773.
175-CN	91+5E	50.	111.	1.9	1.2	0.9	0.8	63.	47.	42.	67.	75.	89.	66.	42.	31.	28.	2.9	1394.
175-CN	92+5E	50.	285.	1.4	0.7	0.6	0.6	50.	43.	43.	86.	86.	100.	70.	35.	30.	30.	2.0	3580.
175-CN	93+5E	50.	170.	2.4	1.5	1.2	1.0	63.	50.	42.	67.	80.	83.	66.	41.	33.	27.	3.6	1255.
175-CN	94+5E	50.	323.	3.3	2.2	1.6	1.5	73.	60.	50.	68.	82.	83.	56.	41.	34.	28.	5.3	4019.
175-CN	95+5E	50.	196.	0.9	0.7	0.7	0.7	75.	78.	78.	100.	100.	100.	42.	33.	33.	33.	2.1	2462.
175-CN	96+5E	50.	345.	2.2	1.7	1.5	1.2	77.	68.	55.	71.	80.	80.	52.	40.	35.	28.	4.7	4333.
175-CN	97+5E	50.	112.	2.0	1.4	0.8	0.7	55.	40.	35.	64.	73.	87.	77.	42.	31.	27.	2.6	1407.
175-CN	98+5E	50.	186.	0.7	0.6	0.6	0.5	86.	86.	71.	83.	100.	83.	42.	36.	36.	30.	1.7	2335.
175-CN	99+5E	50.	90.	1.1	0.6	0.7	0.6	55.	64.	55.	100.	117.	86.	56.	30.	35.	30.	2.0	1130.

RECONNAISSANCE IP DATA
STUD CLAIMS

GLEN E. WHITE GEOPHYSICAL CONSULTING AND SERVICES LTD.

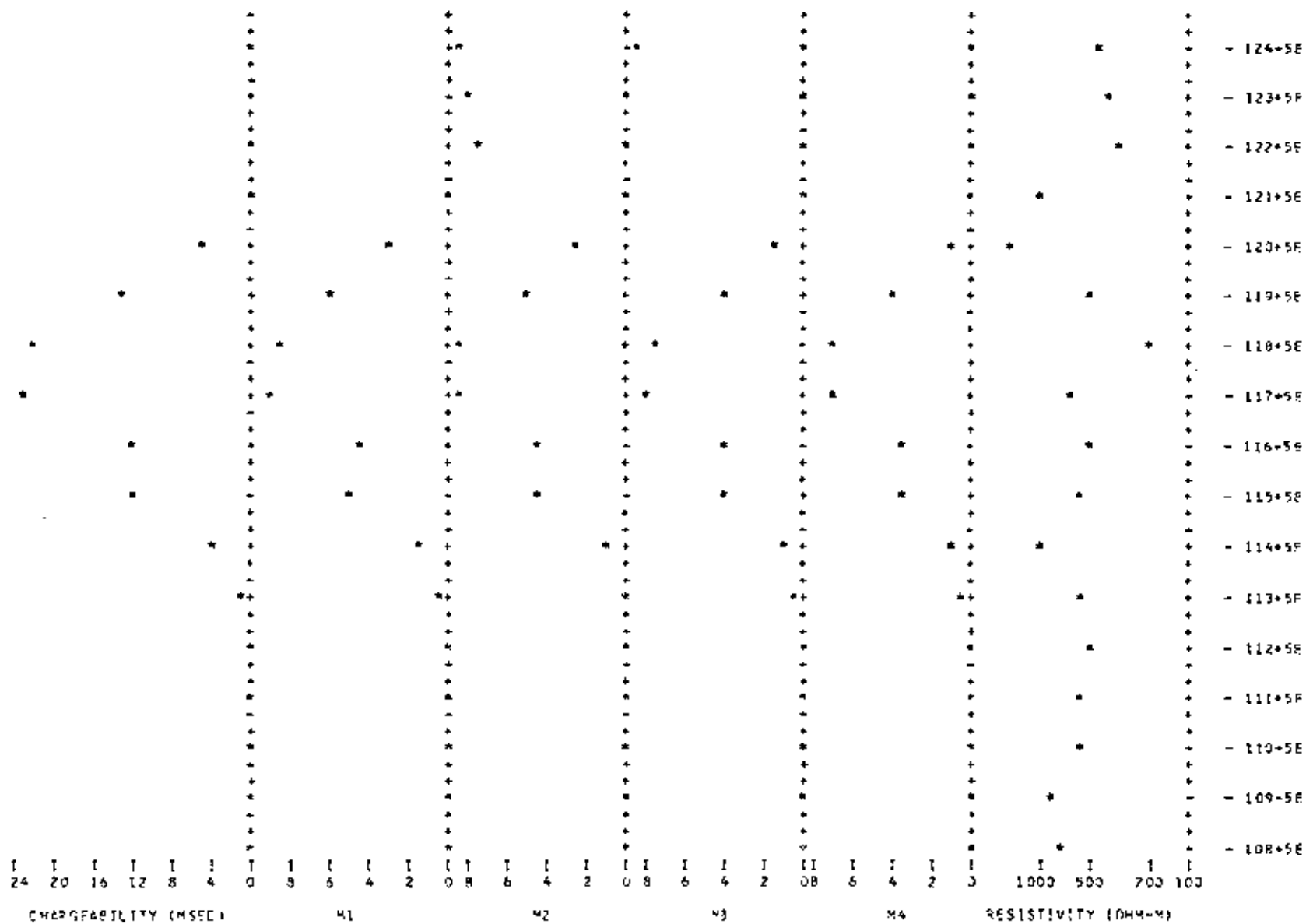
SETHLEWEN COPPER CORPORATION, STUD CLAIMS

A = 100M N = 1 T(DELAY) = 15 MSEC T(INT) = 20 MSEC CONST. = 628



BETHLEHEM COPPER CORPORATION, STUD CLAIMS

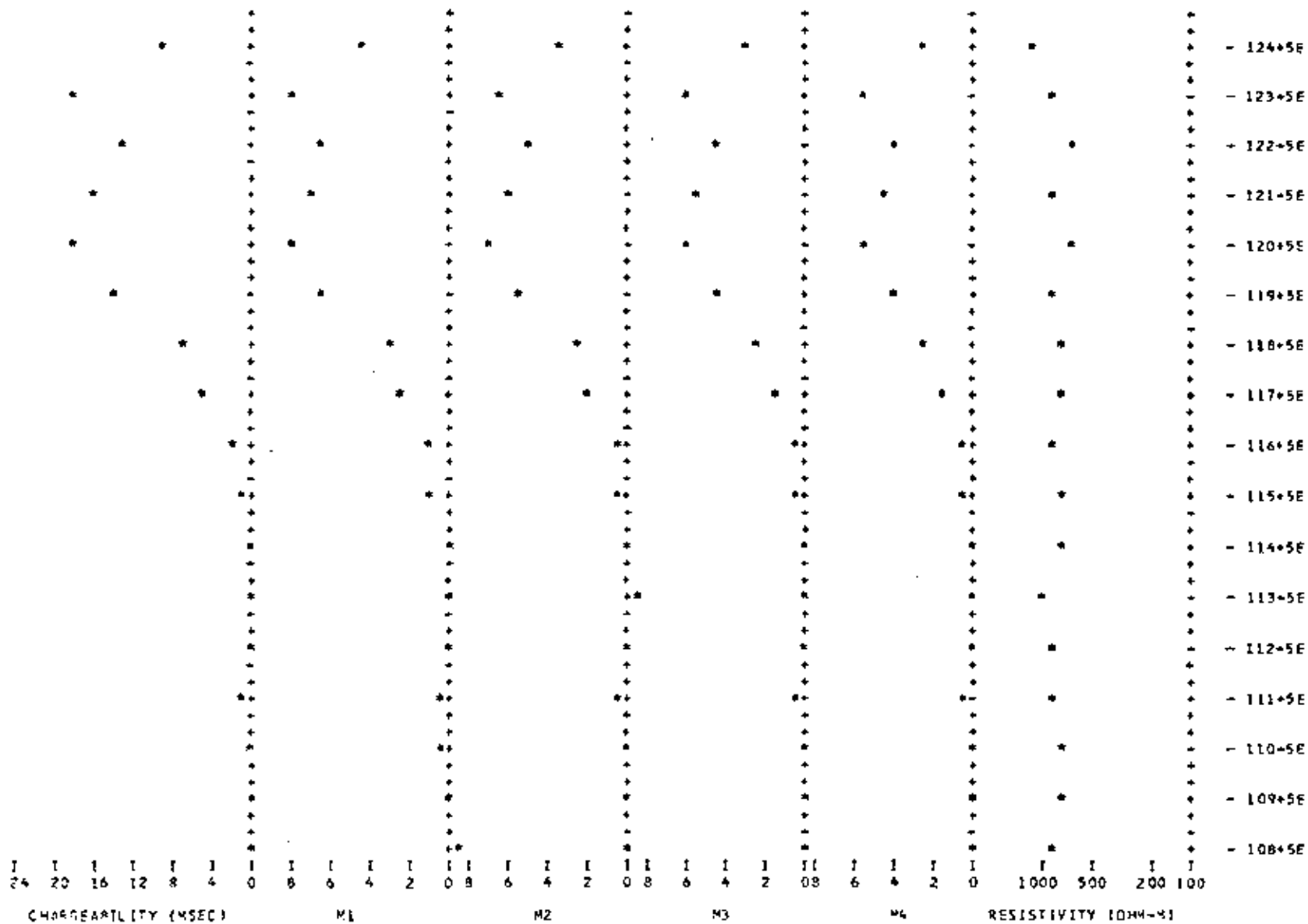
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LINE NUMBER: 157+5N

BETHLEHEM COPPER CORPORATION - STUD CLAIMS

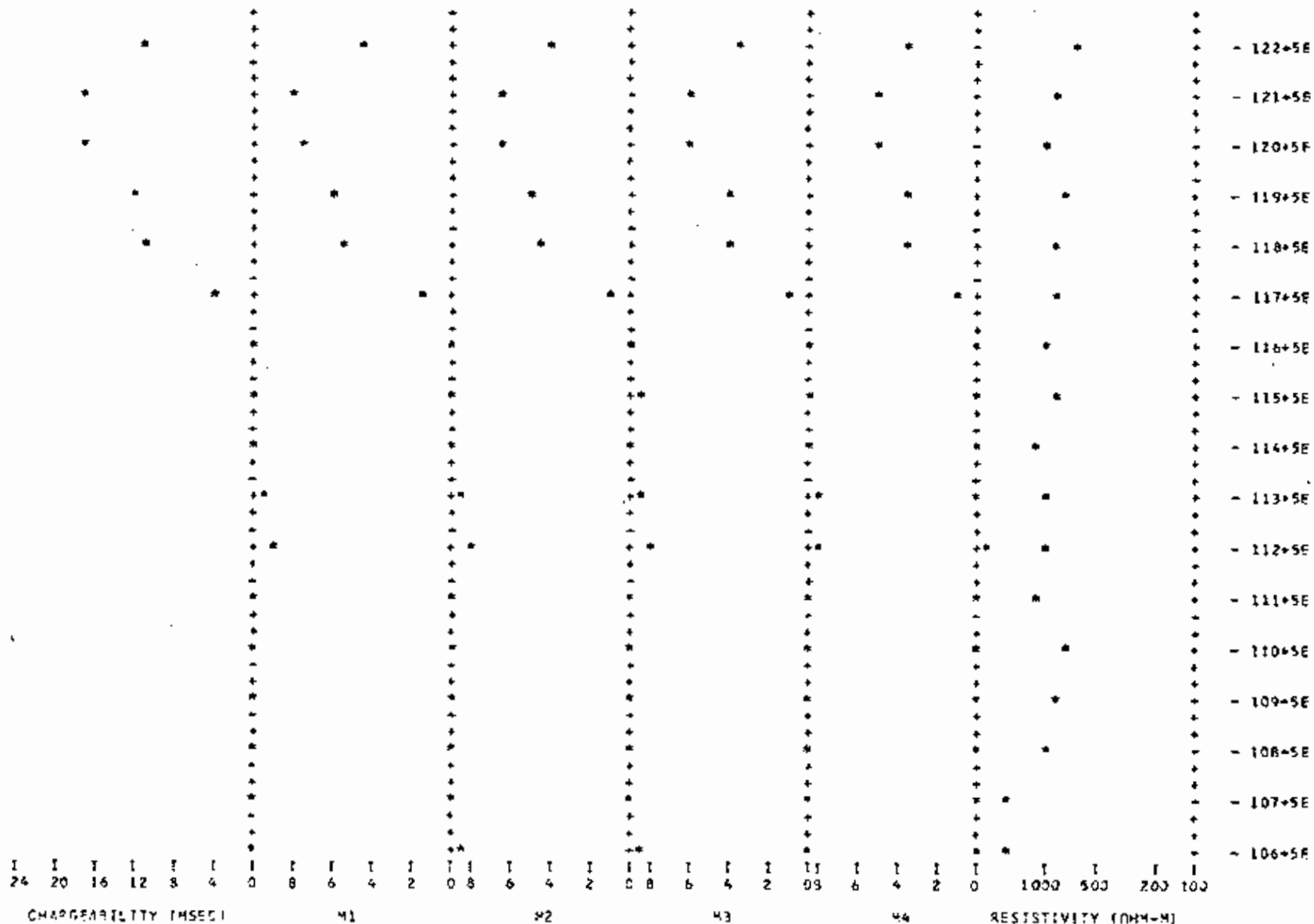
A = 100M N = 1 T(DELAY) = 15 MSEC T(INT) = 20 MSEC CONST. = 628



LINE NUMBER: 160+0V

BETHLEHEM COPPER CORPORATION, STUD CLAIMS

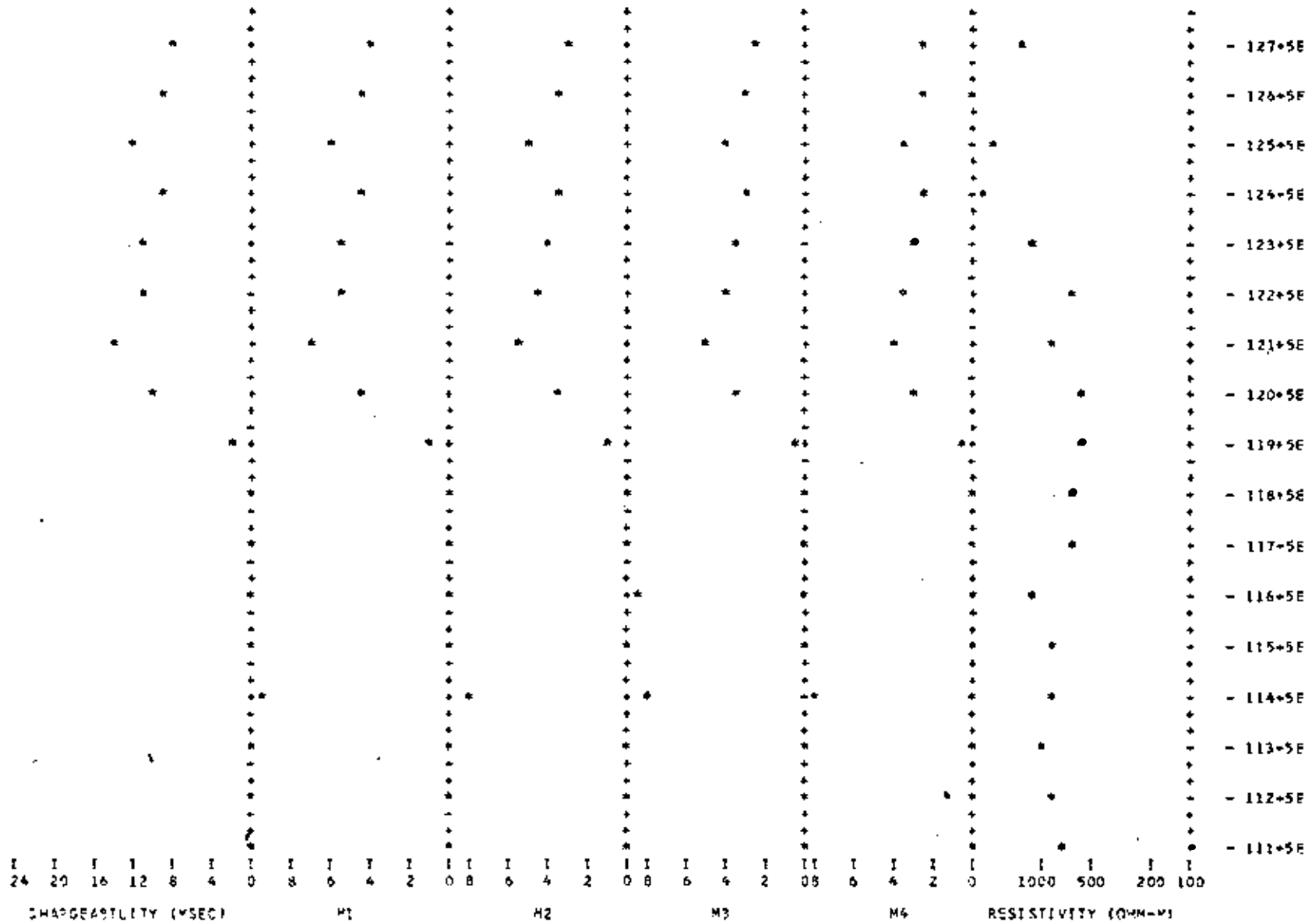
A = 100M N = 1 T(DELAY) = 15 MSEC T(INT) = 20 MSEC CONST. = 628



LINE NUMBER: 162+5N

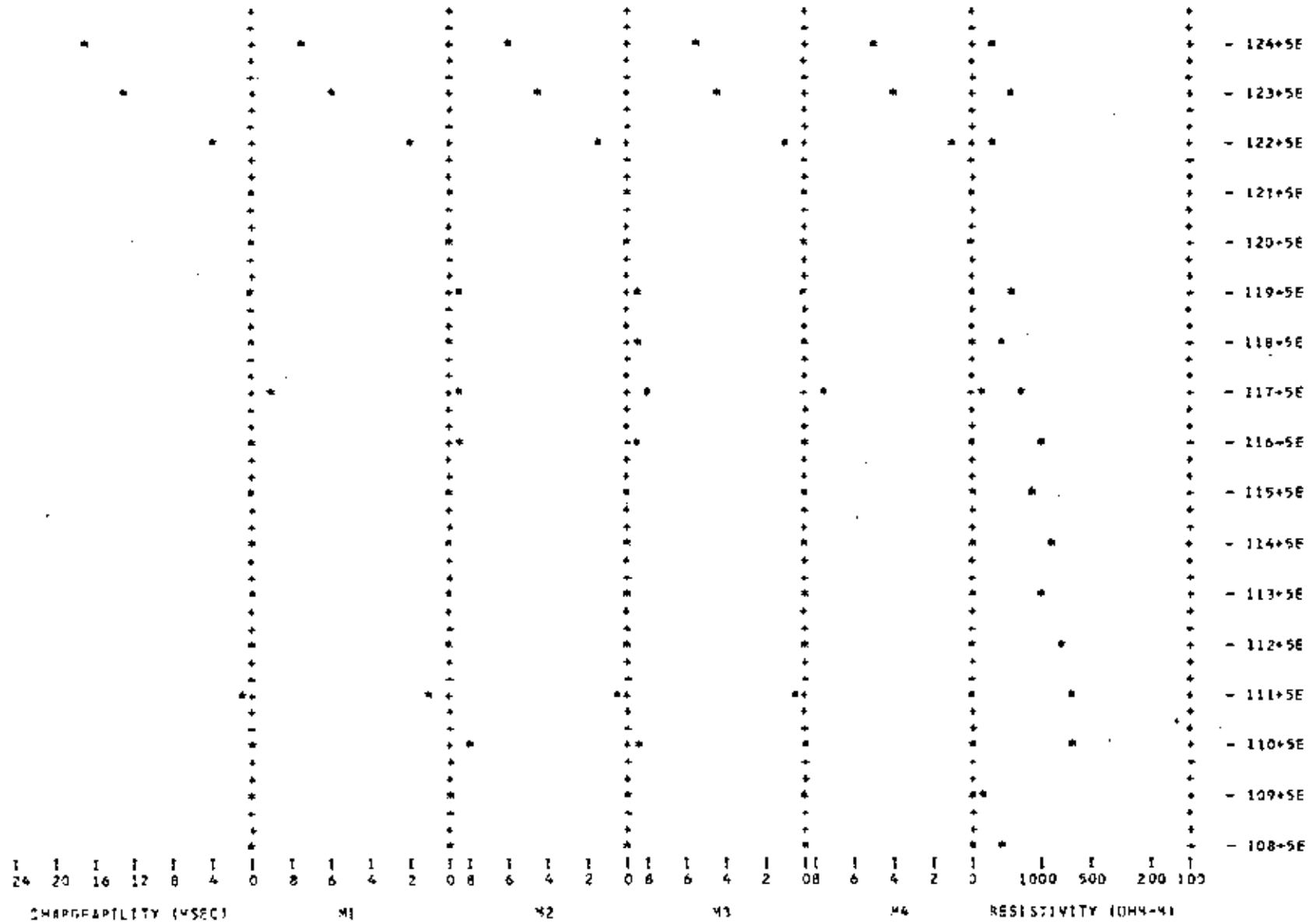
RETIEMER COPPER CORPORATION, STUD CLAIMS

A = 100M N = 1 T(DELAY) = 15 MSEC T(INT) = 20 MSEC CONST. = 628



METHLEEN COPPER CORPORATION, STUD CLAIMS

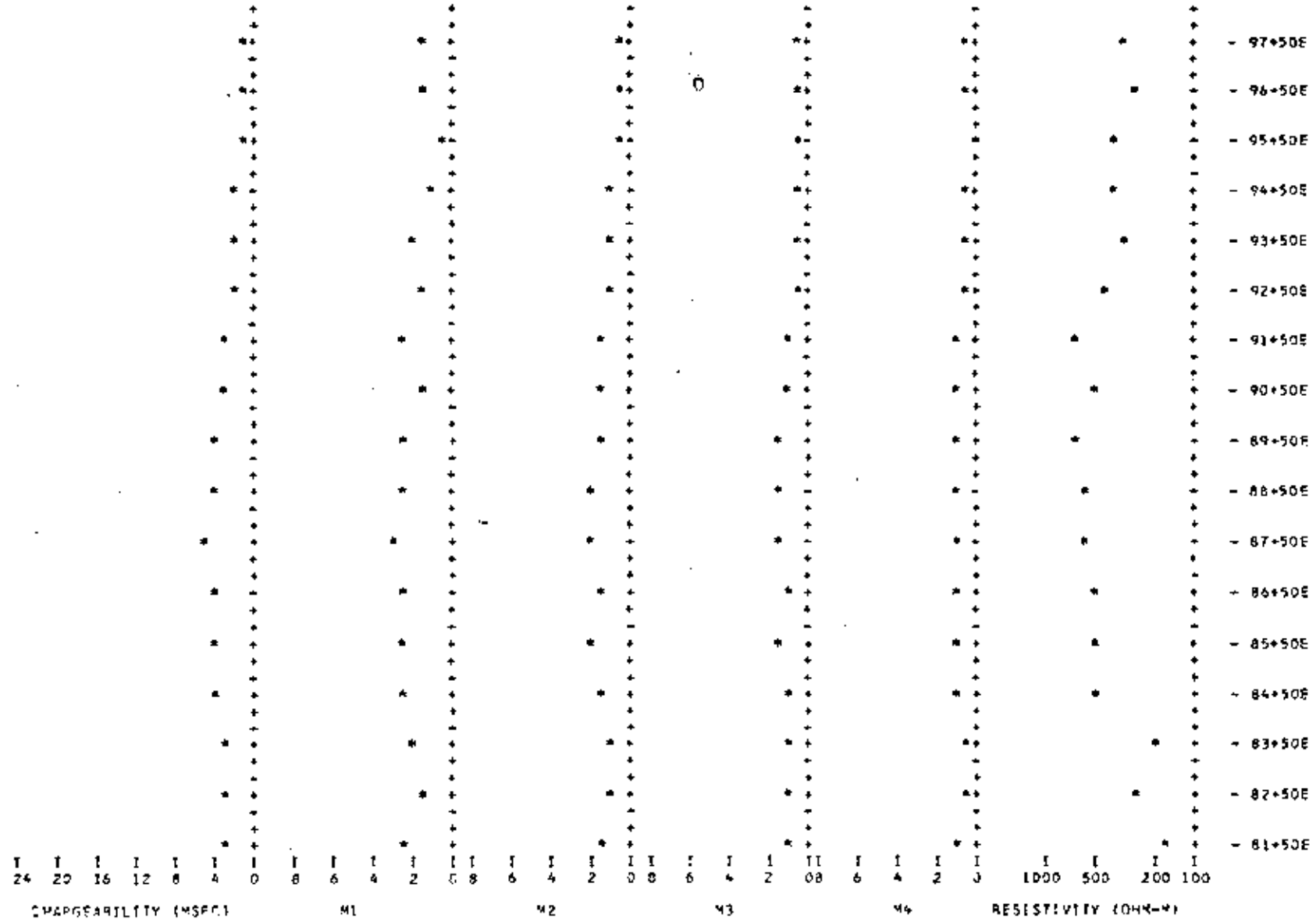
A = 100M N = 1 T(DELAY) = 15 MSEC T(INT) = 20 MSEC CONST. = 678



LINE NUMBER: 167+5N

RETHELEM COPPER CORPORATION, STUD CLAIMS

A = 100M N = 1 T(DELAY) = 15 MSEC T(INT) = 20 MSEC CONST. = 628



BETHLEHEM COPPER CORPORATION, STD CLAIMS

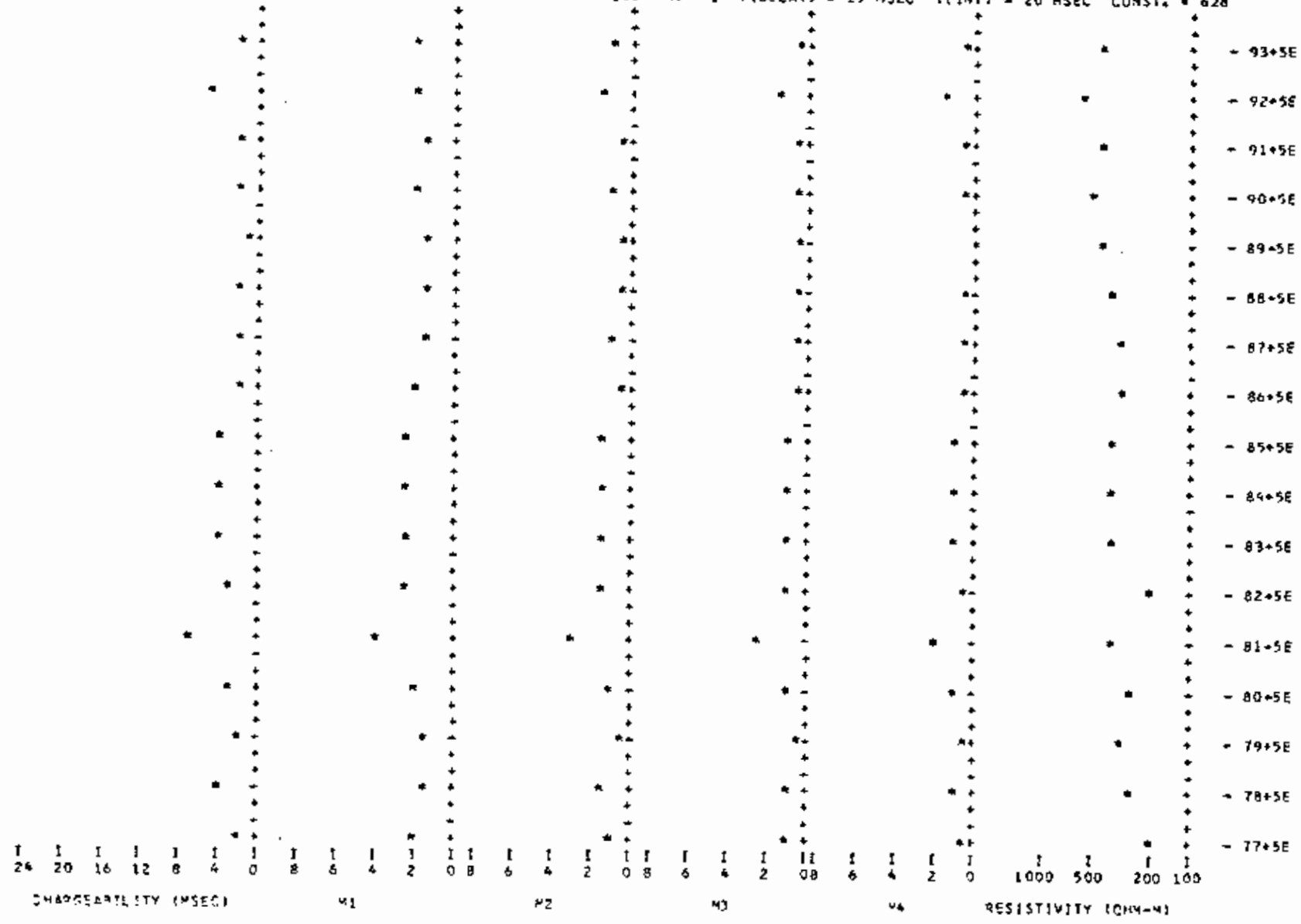
A = 100% N = 1 T(DELAY) = 15 MSEC T(INT) = 20 MSEC CONST. = 628

CHARGABILITY (MSEC)							M1				M2				M3				M4				RESISTIVITY (OHM-IN)				LINE NUMBER				
24	20	16	12	8	4	0	8	6	4	2	8	6	4	2	8	6	4	2	8	6	4	2	1000	500	200	100					
*										*				*				*				*				*					97+50E
										*				*				*				*				*					96+50E
										*				*				*				*				*					95+50E
										*				*				*				*				*					94+50E
										*				*				*				*				*					93+50E
										*				*				*				*				*					92+50E
										*				*				*				*				*					91+50E
										*				*				*				*				*					90+50E
										*				*				*				*				*					89+50E
										*				*				*				*				*					88+50E
										*				*				*				*				*					87+50E
										*				*				*				*				*					86+50E
										*				*				*				*				*					85+50E
										*				*				*				*				*					84+50E
										*				*				*				*				*					83+50E
										*				*				*				*				*					82+50E
										*				*				*				*				*					81+50E

LINE NUMBER: 212+50

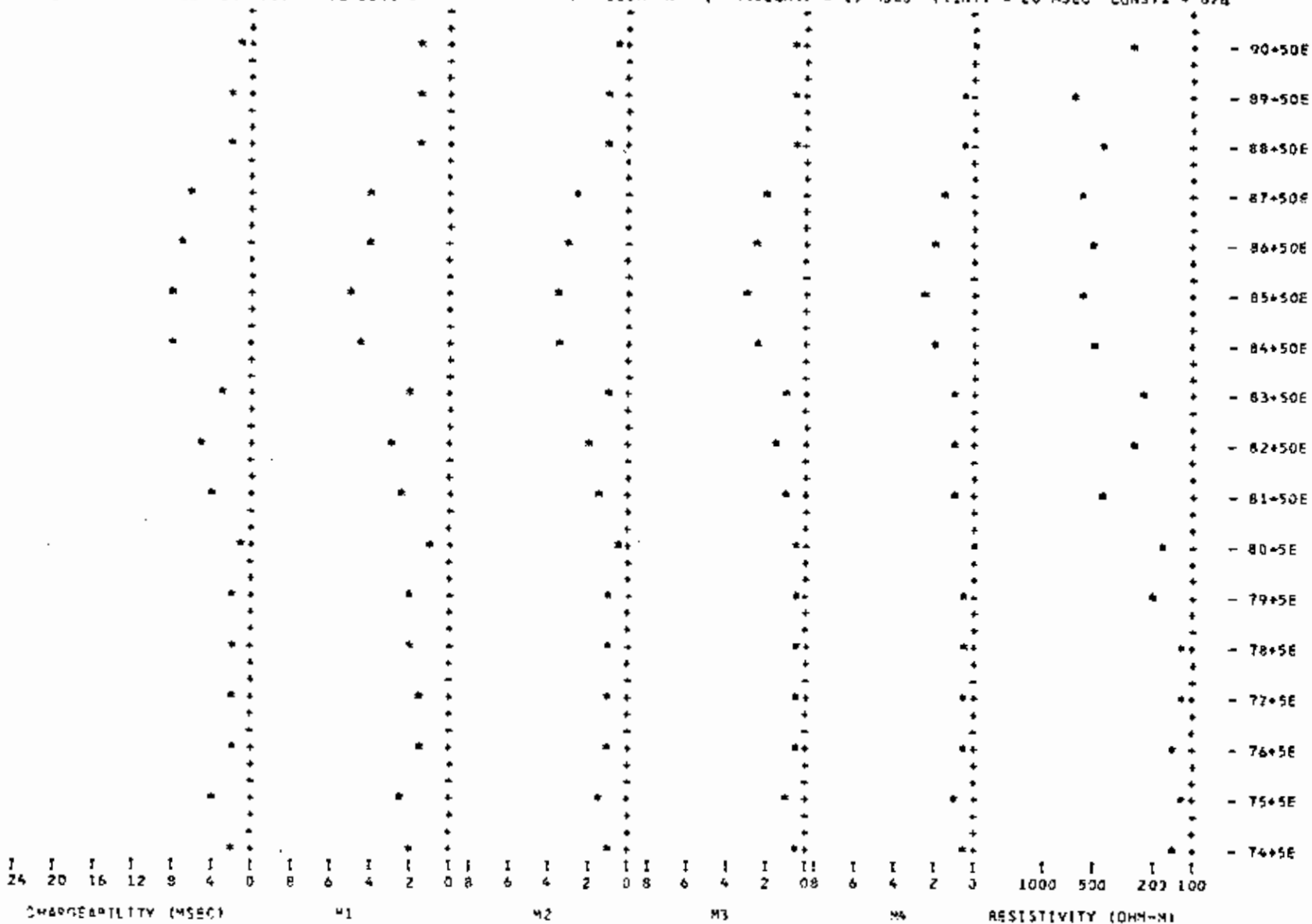
BETHLEHEM COPPER CORPORATION, STUB CLAIMS

A = 100M N = 1 T(DELAY) = 15 MSEC T(INT) = 20 MSEC CONST. = 628



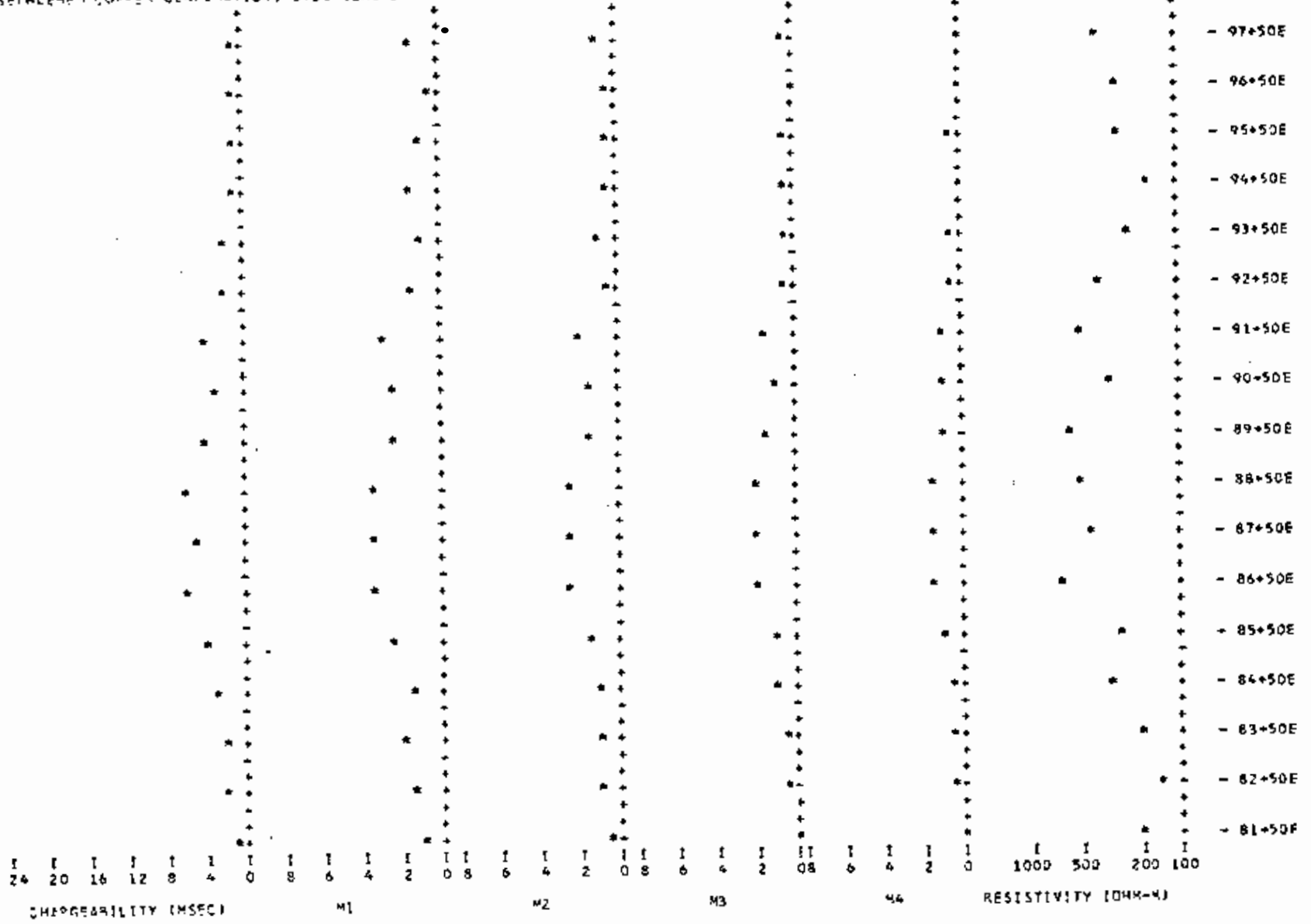
BETHLEHEM COPPER CORPORATION - STUD CLAIMS

A = 100M N = 1 T(DELAY) = 15 MSEC T(INT) = 20 MSEC CONST. = 62A



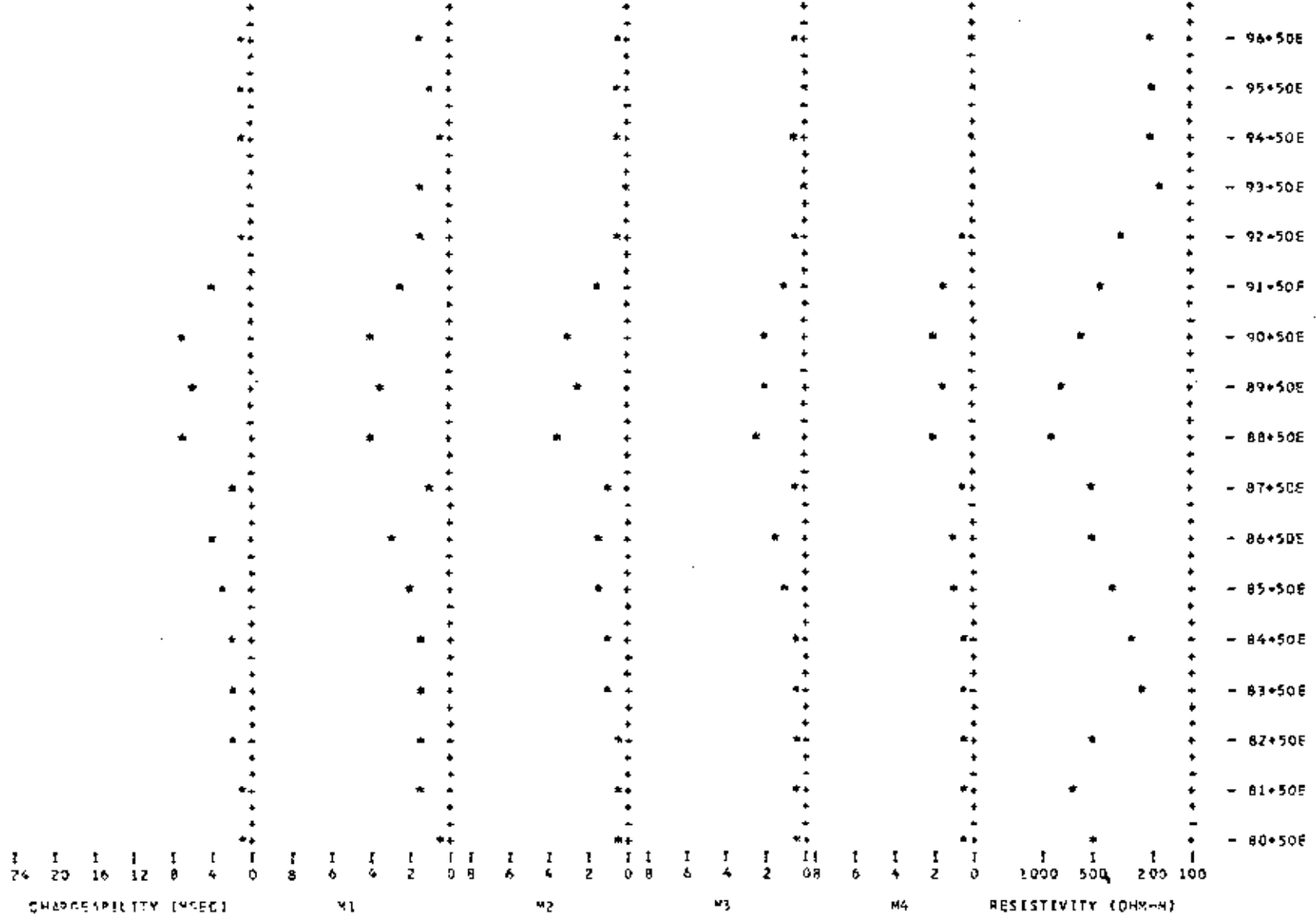
BETHLEHEM COPPER CORPORATION, STUD CLAIMS

A = 100M N = 1 T(DELAY) = 15 MSEC T(INT) = 20 MSEC CONST. = 525



RETHLEHEM COPPER CORPORATION, STOD CLAIMS

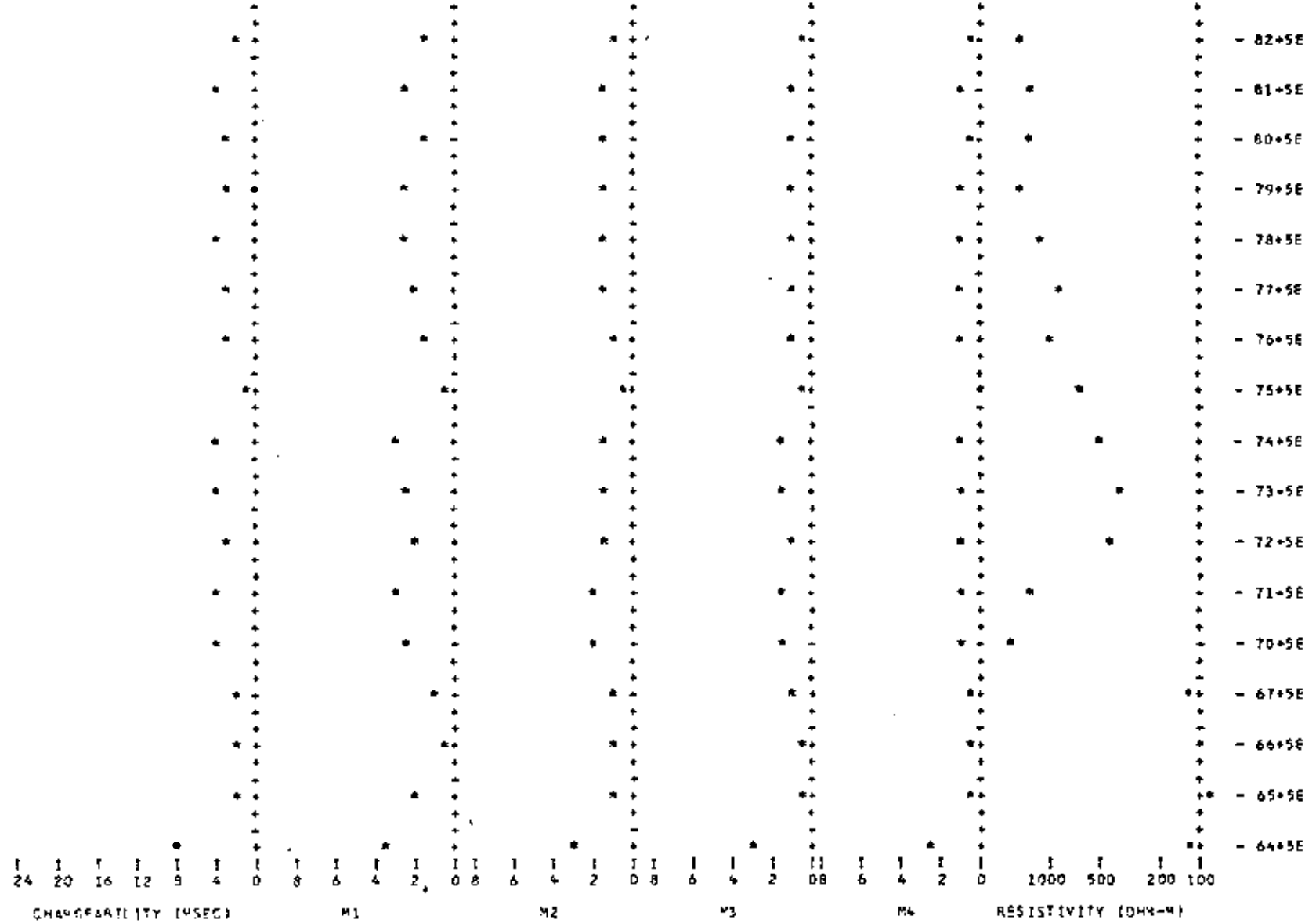
A = 100M N = 1 T(DELAY) = 15 MSEC T(INT) = 20 MSEC CONST. = 628



LINE NUMBER: 220+04

BETHLEHEM COPPER CORPORATION, STUD CLAIMS

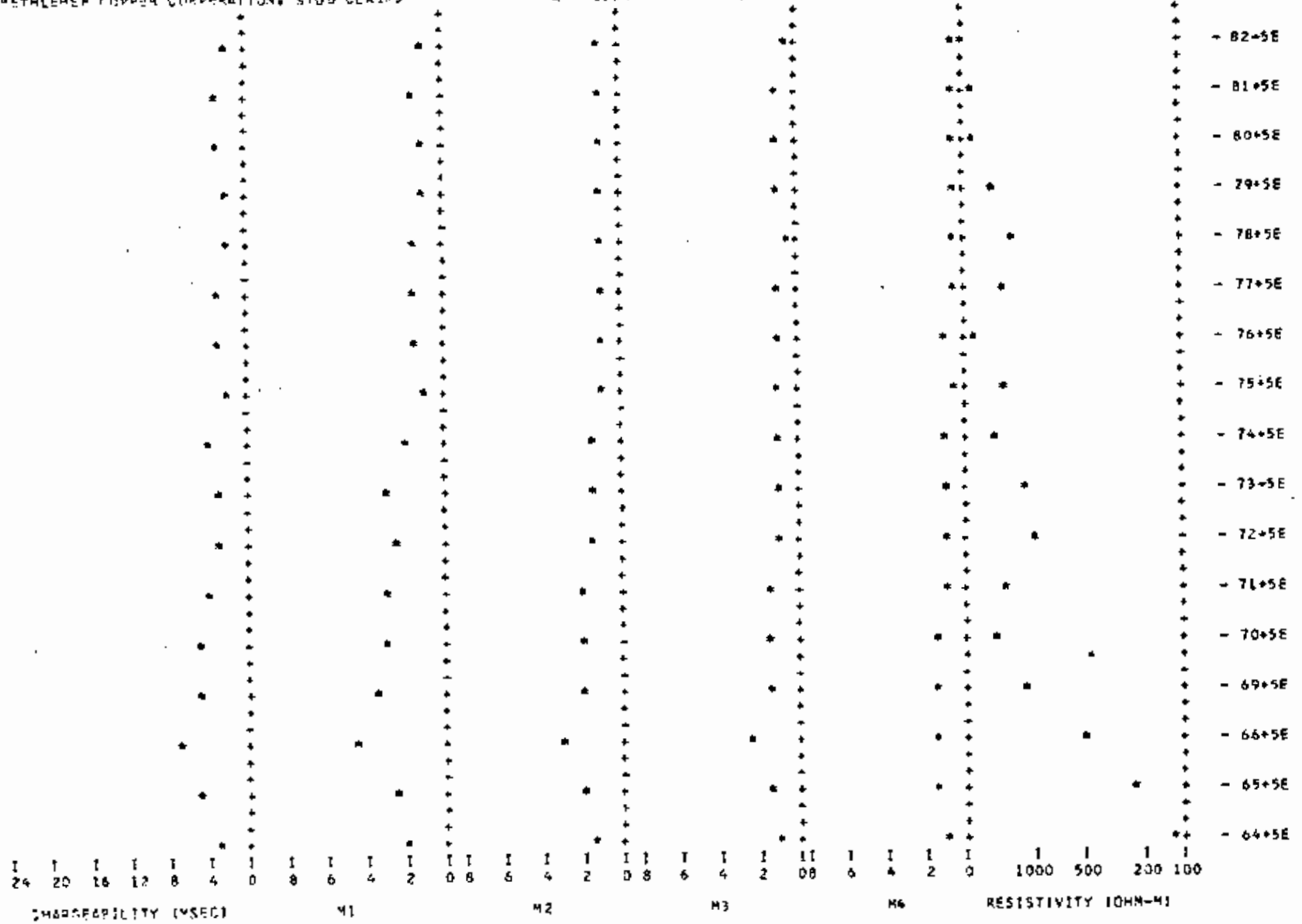
A = 100M N = 1 T(DELAY) = 15 MSEC T(INT) = 20 MSEC CONST. = 628



LIVE NUMBER: 160-DV

RETHELEN COPPER CORPORATION, STUD CLAIMS

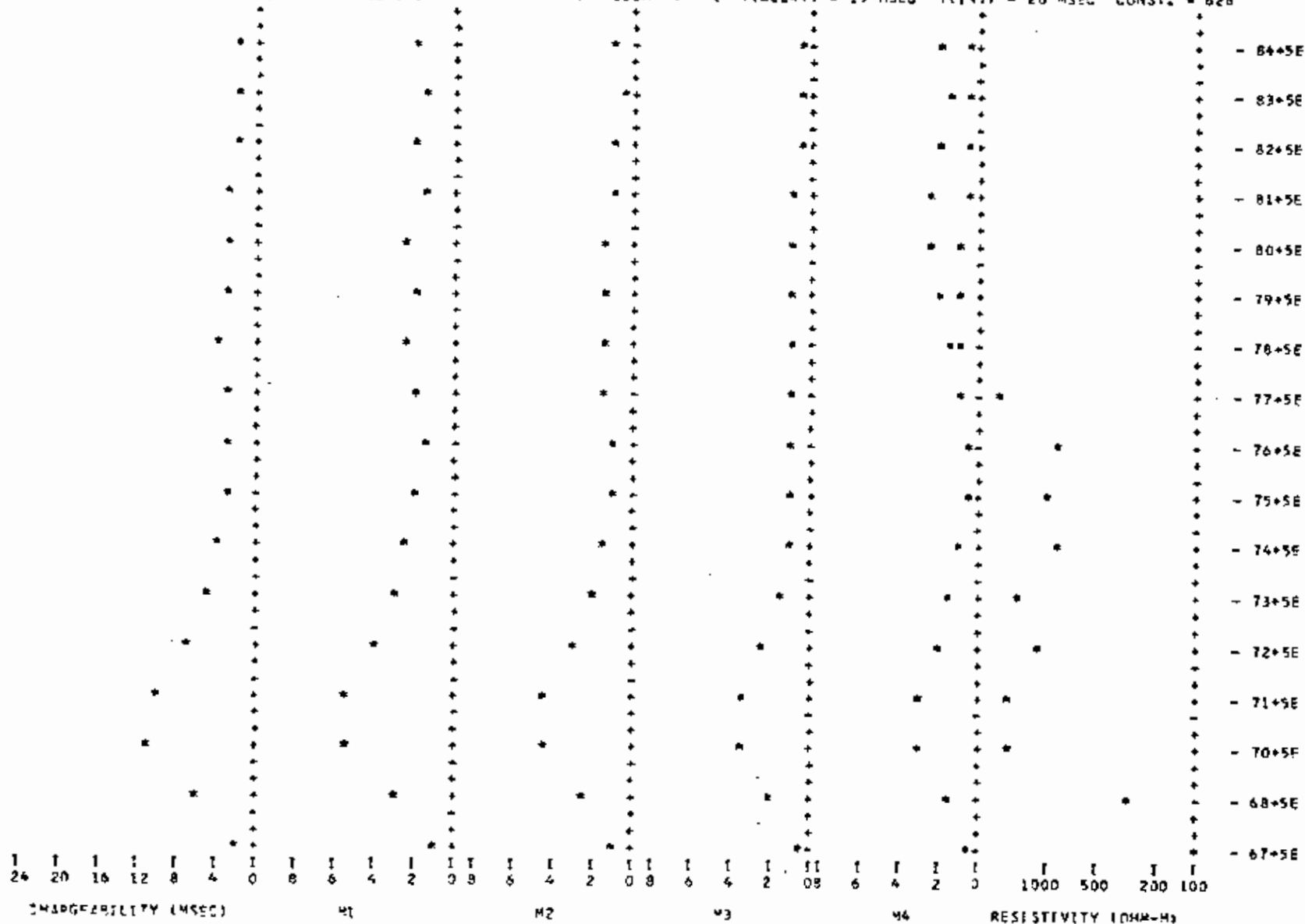
A = 100M N = 1 T(DELAY) = 15 MSEC T(CNT) = 20 MSEC CONST. = 628



LINE NUMBER: 165+0N

BETHLEHEM COPPER CORPORATION, STUD CLAIMS

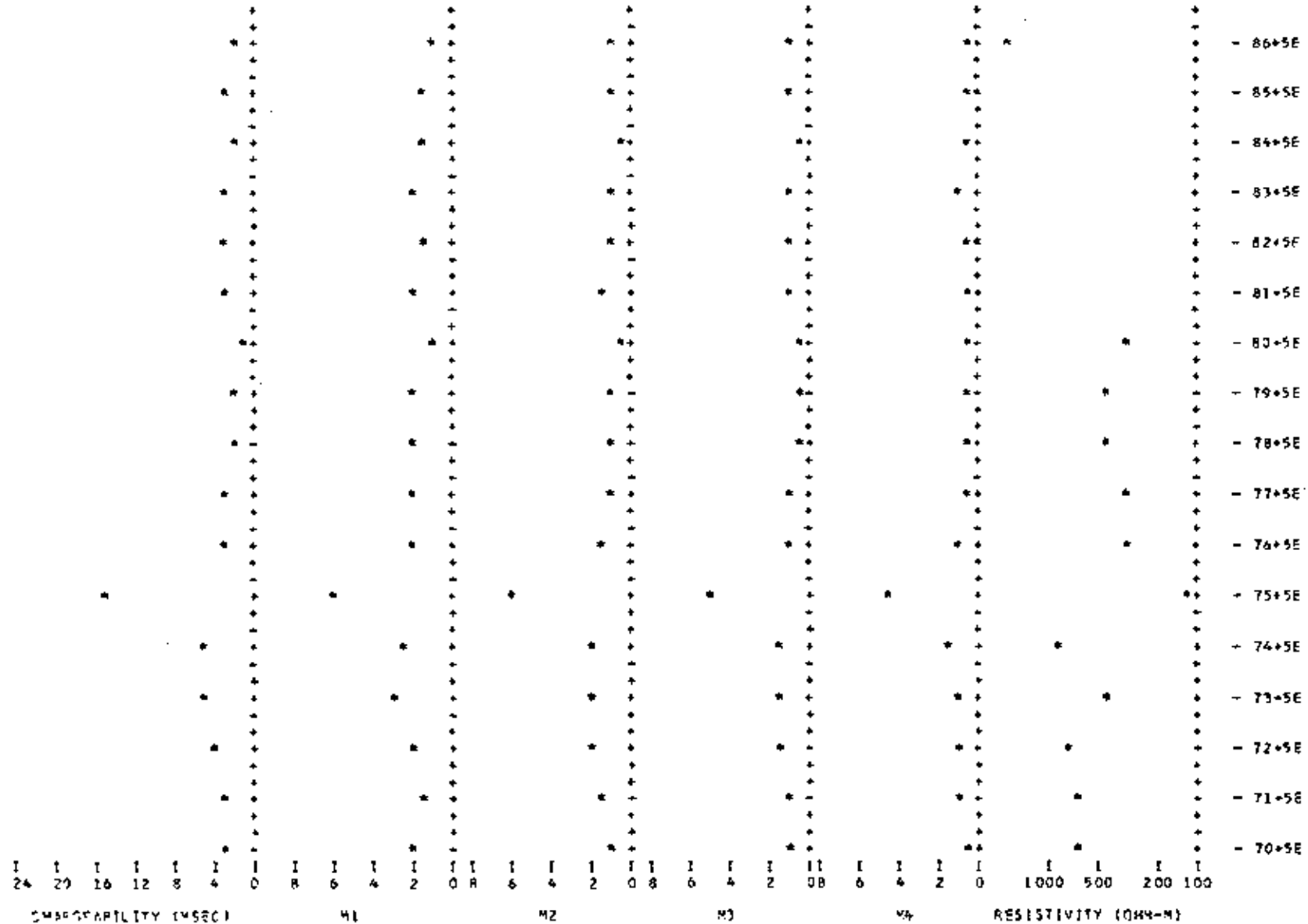
A = 100M N = 1 T(DELAY) = 15 MSEC T(INT) = 20 MSEC CONST. = 628



LINE NUMBER: 170+04

BETHLEHEM COPPER CORPORATION, STUD CLAIMS

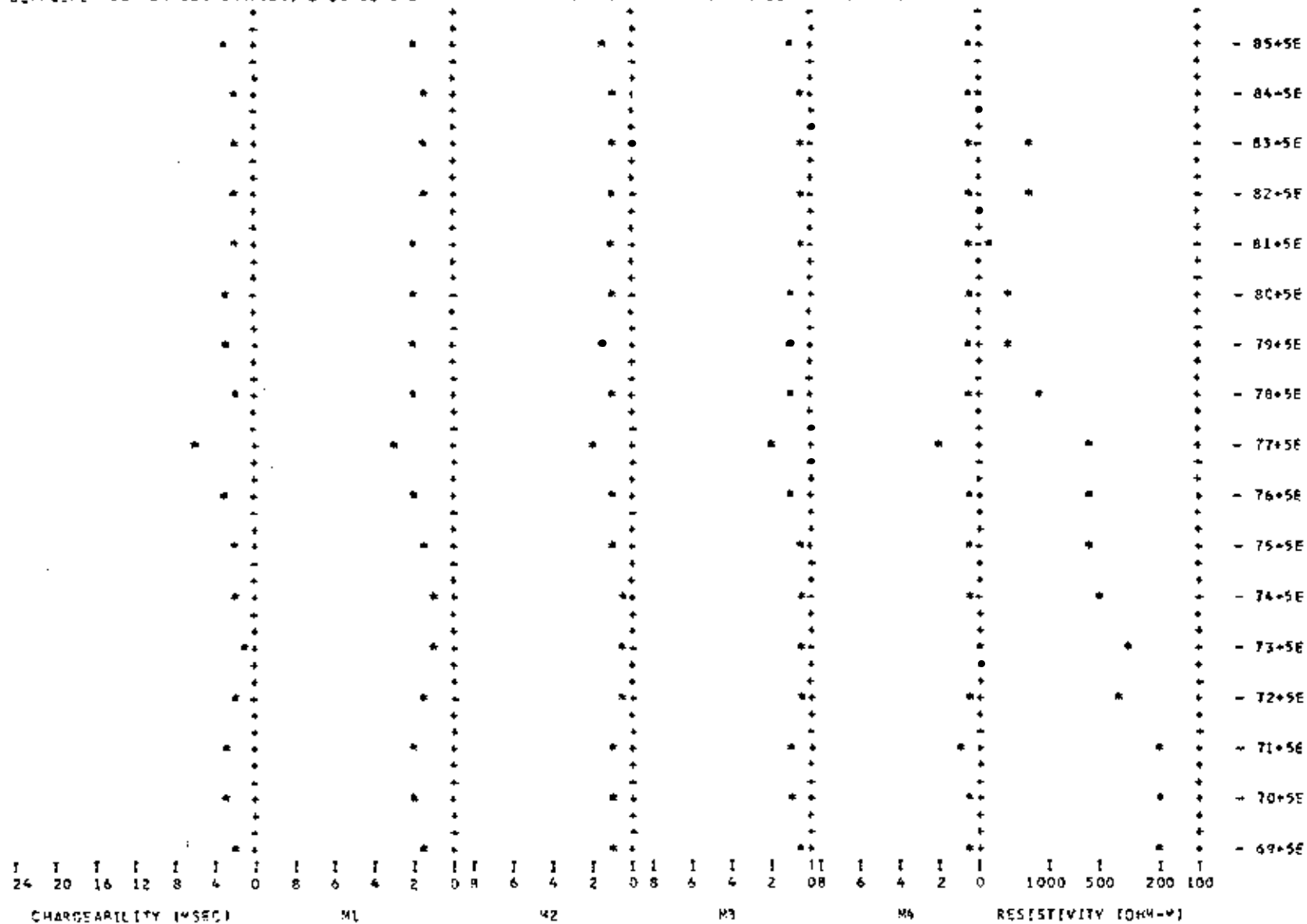
A = 100M N = 1 T(DELAY) = 15 MSEC T(INT) = 20 MSEC CONST. = 62A



LINE NUMBER: 175*0N

BETHLEHEM COPPER CORPORATION, 5TH CLAIMS

A = 100M N = 1 T(DELAY) = 15 MSEC T(INT) = 20 MSEC CONST. = 628



LINE NUMBER: 180-0N

SECTION D

Assaying Service

NOV - 9 1977
EA ✓
HGE
REA

Kamloops Research & Assay Laboratory LTD.



R. G. Blundell
Reg. 573-3016

B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4
PHONE 372-2784

November 5, 1977.

Mr. Eric Anderson,
Bethlehem Copper Corporation,
2100 - 1055 West Hastings St.,
Vancouver, B. C.
V6E 2H8

Dear Eric:

Further to our telephone conversation, I am pleased to outline our procedure for the analysis of your soil samples for copper, lead, zinc and molybdenum.

The samples are dried in our geochemical drying oven and then screened through a stainless steel 80 mesh sieve. The minus 80 mesh fraction is reserved for analysis and the plus 80 mesh fraction is discarded.

The samples are then weighed into test tubes, nitric acid is added, and they are placed in a hot water bath for thirty minutes. Hydrochloric acid is added at this time and the samples are then diluted with an aluminium chloride solution. The aluminium chloride suppresses the nitrous oxide-acetylene flame interference in the analysis of molybdenum.

The samples are then mixed to insure homogeneity and are read, upon settling, on a Varian Techtron AA 5 atomic absorption spectrophotometer. An air-acetylene flame is used for the analysis of copper, lead and zinc, and a nitrous oxide-acetylene is used for the analysis of molybdenum.

All additions of reagents are from Oxford Model S-A pipettors.

Standards and re-assay checks are carried along with each run of 35 samples.

If you require greater detail I will be most happy to supply this information.

Yours very truly,

KAMLOOPS RESEARCH &
ASSAY LABORATORY LTD.

Derek A. Blundell

Derek A. Blundell,
Manager.

DAB:d

MAY 16 1977

Kamloops Research
&
Assay Laboratory
LTD.



B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4
PHONE 322-2784

GEOCHEMICAL LAB REPORT

Bethlehem Copper Corporation,
2100 - 1055 W. Hastings St.,
Vancouver, B. C.
V6E 2H8

DATE May 13, 1977.ANALYST B. B.

Attention: Mr. Eric Anderson

FILE NO. G-154

KRAL NO.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION		
1	197.5 N - 80 E	41	20	75	4			
	81 E	33	20	66	4			
	82 E	37	21	74	2			
	83 E	38	18	79	2			
	84 E	36	20	82	4			
	85 E	34	20	78	3			
	86 E	33	20	52	2			
	87 E	26	18	53	1			
	88 E	28	18	48	2			
	89 E	32	58	58	1			
	90 E	26	26	75	2			
	91 E	26	21	65	2			
	92 E	24	20	45	3			
	93 E	31	17	62	1			
	94 E	32	16	40	2			
	95 E	22	18	30	3			
	96 E	24	20	80	2			
	97 E	32	20	80	5			
	98 E	23	18	59	3			
	99 E	20	16	43	2			
	100 E	19	19	62	5			
	101 E	20	17	54	3			
	102 E	17	18	27	2			
	103 E	32	18	127	4			
	104 E	20	20	65	3			
	197.5 N 105 E	37	20	81	4			
	200 N - 80 E	39	20	91	7			
	81 E	37	21	56	6			
	82 E	39	20	40	4			
30	200 N 83 E	35	18	69	3			

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

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KRAL NO.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
31	200 N 84 E	30	20	38	2				
	85 E	27	16	64	2				
	86 E	26	20	64	1				
	87 E	29	16	55	2				
	88 E	28	19	73	2				
	89 E	25	17	43	2				
	90 E	25	14	114	1				
	91 E	26	13	102	1				
	92 E	25	11	102	1				
	93 E	21	13	64	L 1				
	94 E	29	13	140	2				
	95 E	22	10	84	3				
	96 E	30	12	91	3				
	97 E	20	14	95	2				
	98 E	29	15	85	3				
	99 E	27	15	74	2				
	100 E	20	13	60	L 1				
	101 E	18	13	70	L 1				
	✓ 102 E	44	13	61	2				
	✓ 103 E	31	13	45	1				
	✓ 104 E	21	14	38	2				
	200 N ✓ 105 E	22	13	119	4				
	202.5 N 80 E	38	13	80	3				
	81 E	36	14	77	3				
	82 E	36	15	78	2				
	83 E	42	15	75	1				
	✓ 84 E	37	15	98	2				
	✓ 85 E	45	14	63	2				
	✓ 86 E	40	15	90	1				
	87 E	49	24	47	2				
	88 E	25	14	79	4				
	89 E	28	13	97	2				
	90 E	30	11	89	1				
64	202.5 N 91 E	30	15	63	1				

L denotes "less than"

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

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PAGE 3

KRAL NO.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
65	202.5 N, 92 E	33	13	97	2				
	93 E	43	14	67	1				
	94 E	33	14	98	3				
	95 E	28	13	92	2				
	96 E	35	13	83	1				
	97 E	28	10	143	3				
	98 E	27	12	72	2				
	99 E	22	14	98	1				
	100 E	26	12	93	1				
	101 E	19	13	88	1				
	102 E	25	12	84	1				
	103 E	21	11	69	1				
	104 E	23	10	103	1				
	202.5 N 105 E	22	10	113	1				
	205 N 81 E	43	14	69	1				
	82 E	34	12	73	1				
	83 E	46	18	96	1				
	84 E	37	14	90	1				
	85 E	33	13	65	1				
	86 E	32	13	77	1				
	87 E	32	13	86	1				
	88 E	36	14	103	1				
	89 E	31	15	81	1				
	90 E	30	13	85	1				
	91 E	36	13	88	1				
	92 E	31	14	95	1				
	93 E	28	15	89	1				
	94 E	27	14	114	3				
	95 E	26	14	138	2				
	96 E	26	13	64	1				
	97 E	24	16	62	1				
	98 E	20	14	119	3				
	99 E	25	12	108	1				
98	205 N 100 E	26	13	87	2				

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

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PAGE 4

KRAL NO.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
99	205 N 101 E	28	13	103	2				
	102 E	22	16	63	2				
	103 E	29	17	79	1				
	104 E	20	16	79	1				
	205 N 105 E	26	15	84	1				
	210 N 80 E	35	12	66	1				
	81 E	44	13	83	1				
	82 E	45	12	84	1				
	83 E	45	12	83	1				
	84 E	40	13	101	1				
	85 E	49	14	90	2				
	86 E	42	12	92	1				
	87 E	35	11	99	1				
	88 E	44	11	59	1				
	89 E	35	11	66	1				
	90 E	32	12	88	1				
	91 E	34	13	87	1				
	92 E	30	13	66	1				
	93 E	38	18	213	1				
	94 E	46	14	79	1				
	95 E	23	12	104	1				
	96 E	34	11	91	1				
	97 E	27	14	96	1				
	98 E	30	12	123	1				
	99 E	30	11	181	1				
	100 E	30	15	87	1				
	101 E	37	12	85	1				
	102 E	131	14	126	1				
	103 E	35	22	364	1				
	104 E	23	10	121	1				
	210 N 105 E	21	11	82	2				
	212.5 N 80 E	39	12	101	2				
	81 E	39	13	114	1				
132	212.5 N 82 E	34	11	59	1				

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KRAL NO.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm No	IDENTIFICATION			
133	212.5 N 83 E	41	16	99	1				
	84 E	38	12	92	2				
	85 E	47	14	92	2				
	86 E	49	14	123	1				
	87 E	43	1	98	1				
	88 E	46	14	100	1				
	89 E	37	13	105	1				
	90 E	43	12	100	1				
	91 E	51	12	92	1				
	92 E	41	14	108	1				
	93 E	42	13	92	1				
	94 E	42	12	91	1				
	95 E	37	13	75	1				
	96 E	28	14	36	1				
	97 E	33	11	41	2				
	98 E	33	11	44	1				
	99 E	28	12	78	1				
	100 E	20	11	87	1				
	101 E	21	11	74	1				
	102 E	18	10	51	1				
	103 E	34	11	43	1				
	104 E	26	9	40	1				
	212.5 N 105 E	31	10	67	1				
	215 N 80 E	50	13	110	1				
	81 E	50	16	105	2				
	82 E	39	11	84	1				
	83 E	52	15	102	1				
	84 E	58	15	101	1				
	85 E	53	17	101	1				
	86 E	56	15	99	1				
	87 E	59	13	94	1				
	88 E	49	14	83	1				
	89 E	45	12	96	1				
166	215 N 90 E	57	15	95	1				

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GEOCHEMICAL LAB REPORT

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KRAL NO.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
167 *	215 N 91 E	56	14	92	1				
	92 E	61	14	90	1				
	93 E	62	17	100	1				
	94 E	38	13	88	1				
	95 E	37	17	90	1				
	96 E	43	12	77	1				
	97 E	39	14	86	1				
	98 E	40	12	88	1				
	99 E	36	12	87	1				
	100 E	35	11	81	1				
	101 E	27	14	79	1				
	102 E	30	14	88	1				
	103 E	36	13	94	1				
	104 E	25	12	94	1				
	215 N 105 E	27	14	109	1				
	217.5 N 80 E	72	15	120	2				
	81 E	60	14	97	1				
	82 E	43	13	100	1				
	83 E	52	17	95	1				
	84 E	42	11	60	1				
	85 E	57	17	66	1				
	86 E	43	12	80	1				
	87 E	50	14	91	1				
	88 E	42	13	74	1				
	89 E	41	13	79	1				
	90 E	45	37	92	2				
	91 E	46	13	101	1				
	92 E	38	13	97	1				
	93 E	43	12	76	1				
	94 E	44	12	88	1				
	95 E	37	13	79	1				
	96 E	42	12	76	1				
	97 E	40	13	103	2				
200	217.5 N 98 E	71	13	114	2				

* Bag marked "216 N"

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KRAL NO.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
201	217.5 N 99 E	40	15	83	2	Method:	-80 Mesh		
	✓ 100 E	42	11	67	1		Hot Acid	Extraction	
	✓ 101 E	35	12	69	1		Atonic	Absorption	
	✓ 102 E	30	13	80	1				
	✓ 103 E	27	13	87	1				
	✓ 104 E	30	12	94	1				
	217.5 N 105 E	27	12	72	1				
	220 N 80 E	44	13	106	1				
	✓ 81 E	45	12	97	1				
	✓ 82 E	41	13	101	1				
	✓ 83 E	43	12	99	1				
	✓ 84 E	44	13	69	1				
	✓ 85 E	45	13	85	1				
	✓ 86 E	43	10	86	1				
	✓ 87 E	43	14	88	1				
	✓ 88 E	47	11	80	1				
	✓ 89 E	54	13	166	2				
	* 90 E								
	✓ 91 E	43	12	99	1				
	✓ 92 E	41	11	96	1				
	✓ 93 E	35	10	91	1				
	✓ 94 E	39	11	87	1				
	✓ 95 E	39	11	92	1				
	✓ 96 E	43	13	82	1				
	✓ 97 E	38	15	79	1				
	✓ 98 E	38	12	84	1				
	✓ 99 E	44	12	77	1				
	✓ 100 E	44	12	74	1				
	✓ 101 E	43	15	80	1				
	✓ 102 E	39	14	90	1				
	✓ 103 E	36	13	70	1				
	✓ 104 E	30	13	98	1				
233	220 N 105 E	26	11	89	1				

* To follow

Kamloops Research
&
Assay Laboratory
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B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4
PHONE 372-2784

MAY 20 1977

EA ✓
MGE

V2C 5N4 ✓
REA

GEOCHEMICAL LAB REPORT

Bethlehem Copper Corporation,
2100 - 1055 West Hastings St.,
Vancouver, B. C.
V6E 2H8

DATE May 20, 1977.

ANALYST D.A.B.

FILE NO. G-157

KRAL NO.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
1	182.5 N 100 E	48	36	89	2				
	101 E	26	17	84	2				
	102 E	48	18	88	4				
	102.75 E								
	S2 Organic	119	18	4	5				
	103.5 E								
	S6 Organic	70	18	35	4				
	104 E	28	16	80	4				
	105 E	18	17	80	3				
	105 E								
	S7 Organic	59	24	84	4				
	105 E								
	SS7 silt	56	26	82	3				
	106 E	25	22	133	2				
	107 E	26	17	72	2				
	108 E	26	20	85	2				
	109 E	18	20	132	2				
	111 E	20	20	60	2				
	120 E	12	17	48	1				
	182.5 N 125 E	11	16	33	1				
	185 N 101 E	158	22	45	1				
	102 E	22	19	68	1				
	104 E	61	16	46	1				
	105 E	28	21	53	1				
	106 E	21	15	65	1				
	107 E	29	25	132	2				
	108 E	29	20	66	1				
	113 E	22	15	98	1				
	116 E	16	16	88	2				
	185 N 125 E	11	16	47	2				
	187.5 N 80 E	30	14	88	1				
	81 E	33	21	64	2				
	82 E	34	19	67	3				
30	187.5 N 84 E	26	12	54	3				

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KRAL NO.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
31	187.5 N 85 E	34	17	73	2				
	86 E	36	18	71	2				
	87 E	41	20	145	3				
	88 E	27	18	118	2				
	89 E	35	15	62	1				
	90 E	30	15	54	1				
	91 E	26	16	69	1				
	95 E	14	16	134	1				
	96 E	14	19	181	1				
	97 E	28	24	84	3				
	98 E	32	21	88	1				
	99 E	39	23	130	2				
	100 E	40	22	121	3				
	101 E	35	18	57	1				
	102 E	51	18	72	1				
	103 E	145	17	34	1				
	104 E	19	13	73	1				
	105 E	25	20	57	2				
	106 E	30	24	70	2				
	107 E	25	21	45	2				
	108 E	44	20	142	2				
	109 E	27	17	84	3				
	110 E	26	24	114	2				
	111 E	28	20	96	3				
	112 E	25	17	79	3				
	113 E	22	17	81	3				
	114 E	40	18	79	3				
	115 E	39	23	100	2				
	116 E	28	46	95	2				
	117 E	19	9	89	3				
	118 E	29	25	70	3				
	119 E	16	17	64	2				
	120 E	17	21	81	2				
64	187.5 N 121 E	29	20	56	1				

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GEOCHEMICAL LAB REPORT

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KRAL NO.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
65	187.5 N 122 E	35	22	71	3				
	123 E	16	20	37	2				
	124 E	27	18	50	1				
	187.5 N 125 E	23	17	54	2				
	190 N 80 E	43	26	83	2				
	81 E	43	21	83	2				
	82 E	40	22	71	3				
	83 E	46	29	70	2				
	84 E	35	20	66	2				
	85 E	27	22	78	3				
	86 E	38	23	71	1				
	87 E	35	20	56	1				
	88 E	34	19	70	2				
	89 E	37	24	109	2				
	90 E	40	23	75	2				
	91 E	30	23	76	2				
	92 E	26	19	61	2				
	93 E	23	21	83	2				
	96 E	23	19	102	1				
	97 E	28	17	78	2				
	98 E	29	15	89	1				
	99 E	81	27	79	5				
	100 E	32	22	128	1				
	101 E	23	20	136	2				
	102 E	28	22	85	1				
	103 E	25	20	137	1				
	104 E	27	23	117	3				
	105 E	33	26	113	3				
	106 E	64	40	48	7				
	107 E	27	22	49	1				
	108 E	21	17	70	1				
	109 E	30	20	132	2				
	110 E	24	21	52	2				
98	190 N 111 E	42	17	88	3				

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

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ORAL NO.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
99	190 N 112 E	25	18	81	2				
	113 E	36	19	69	3				
	114 E	68	19	48	3				
	115 E	30	26	114	3				
	116 E	15	19	129	3				
	117 E	35	28	149	4				
	118 E	20	29	81	3				
	119 E	20	14	46	3				
	120 E	23	27	162	5				
	121 E	22	16	22	2				
	122 E	17	17	81	2				
	123 E	23	23	129	2				
	124 E	10	15	35	2				
	125 E	10	19	52	1				
	192.5 N 80 E	28	25	80	2				
	81 E	33	22	53	1				
	82 E	52	20	78	2				
	83 E	31	12	82	1				
	84 E	32	18	65	1				
	85 E	31	17	81	2				
	86 E	30	14	67	2				
	87 E	39	15	62	2				
	88 E	26	17	65	1				
	89 E	28	17	51	1				
	90 E	29	16	56	2				
	91 E	22	18	66	1				
	92 E	23	15	85	2				
	93 E	17	17	89	3				
	94 E	33	15	70	3				
	95 E	26	14	81	2				
	96 E	40	30	36	4				
	97 E	79	18	94	3				
	98 E	28	15	71	2				
132	192.5 N 90 E	30	16	108	1				

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

FILE NO. G-157

PAGE 5

KRAL NO.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
133	192.5 N-100 E	20	16	80	2				
	101 E	33	21	67	3				
	102 E	23	39	41	6				
	103 E	23	17	60	1				
	104 E	29	13	72	2				
	105 E	27	19	165	2				
	106 E	35	20	82	2				
	107 E	40	21	94	1				
	108 E	29	25	48	2				
	109 E	39	20	94	3				
	110 E	52	24	123	3				
	111 E	33	20	100	3				
	112 E	26	13	88	2				
	113 E	53	17	59	1				
	114 E	44	19	159	2				
	115 E	26	15	66	2				
	116 E	23	16	76	2				
	117 E	25	15	79	1				
	118 E	38	18	90	2				
	119 E	22	16	77	2				
	120 E	12	15	77	2				
	121 E	15	15	55	1				
	122 E	30	22	86	2				
	123 E	22	20	40	1				
	124 E	25	13	70	1				
	192.5 N 125 E	22	15	118	2				
	195 N 80 E	24	15	107	1				
	81 E	22	16	71	1				
	82 E	35	15	99	1				
	83 E	19	16	61	1				
	84 E	21	12	69	1				
	85 E	31	21	74	1				
	86 E	23	14	62	1				
166	195 N 87 E	20	20	80	1				

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

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KRAL NO.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
267	195 N 88 E	28	22	60	2				
	89 E	21	19	75	1				
	90 E	12	15	28	1				
	91 E	27	19	61	1				
	92 E	41	26	77	2				
	93 E	30	23	54	2				
	94 E	25	32	90	1				
	95 E	26	21	65	1				
	96 E	22	13	61	1				
	97 E	23	18	71	1				
	98 E	26	18	66	1				
	99 E	29	14	48	1				
	100 E	30	20	121	1				
	101 E	29	25	76	1				
	102 E	33	17	75	2				
	103 E	30	13	50	1				
	104 E	35	16	71	1				
	105 E	42	22	69	1				
	106 E	39	28	65	2				
	107 E	37	25	72	1				
	108 E	20	13	36	2				
	109 E	11	15	56	2				
	110 E	15	16	55	1				
	111 E	10	18	49	1				
	112 E	15	18	96	3				
	113 E	42	24	71	2				
	114 E	38	24	122	3				
	115 E	15	19	98	2				
	116 E	22	22	76	3				
	117 E	23	20	99	2				
	118 E	20	23	89	1				
	119 E	16	17	92	2				
	120 E	28	25	82	2				
200	195 N 121 E	11	20	90	2				

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

FILE NO. G-157

PAGE 7

KRAL NO.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
201	195 N / 122 E	15	15	104	2				
	123 E	15	20	57	2				
	124 E	8	16	37	2				
	195 N / 125 E	20	17	52	1				
	S-1 Organic	78	23	70	1				
	S-3 Organic								
	200 N 104 E	129	31	81	5				
	S-4 Organic	52	27	62	3				
	S-5 silt								
	204 N 102 E	36	40	35	6				
	S-8 silt	40	21	76	3				
	S-9 silt	26	21	79	1				
	S-10 silt	27	23	121	1				
	S-11 silt	36	22	81	2				
	18260	5	38	20	7				
	18261	40	20	33	2				
	18262	21	21	53	5				
	18263	35	35	76	4				
	18264	8	25	39	2				
	18265	58	19	38	1				
	18266	101	22	45	3				
	18267	12	19	24	2				
	18268	17	17	17	3				
	18269	28	20	31	2				
	18270	13	19	34	1				
	18271	56	34	88	2				
	18272	69	26	61	2				
	18273	61	19	55	3				
	18274	32	17	46	2				
	18275	48	19	47	2				
	18276	35	20	43	2				
	18277	48	20	58	2				
	18278	21	19	38	2				
	18279	118	20	48	2				
	18280	67	26	30	4				
234	18281	57	27	28	4				

Kamloops Research
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Bethlehem Copper Corporation,
2100 - 1055 West Hastings St.,
Vancouver, B. C.
V6E 2H8

B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - BOX 546 - KAMLOOPS, B.C. V2C 5N2
PHONE 372-2784

MAY 30 1977

Guelson Assays
KGE ✓
REA ✓
EA ✓

GEOCHEMICAL LAB REPORT

DATE May 27, 1977.

ANALYST D.A.B.

FILE NO. G-159

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
1	165 N - 110 E	74	44	69	1				
	✓ 113 E	25	19	69	1				
	✓ 114 E	116	21	41	1				
	✓ 115 E	17	18	51	1				
	✓ 119 E	52	21	72	1				
	✓ 120 E	15	20	119	1				
	✓ 121 E	18	23	129	2				
	✓ 122 E	95	19	233	2				
	165 N - 123 E	9	22	37	1				
	167.5 N ✓ 109 E	12	20	41	1				
	✓ 110 E	23	19	91	1				
	✓ 111 E	15	16	100	1				
	✓ 122 E	16	23	269	3				
	✓ 123 E	27	20	110	3				
	✓ 124 E	17	26	78	2				
	167.5 N - 125 E	17	24	51	2				
	170 N - 100 E	11	16	50	1				
	✓ 107 E	9	17	62	1				
	✓ 110 E	14	23	44	1				
	✓ 111 E	68	22	56	1				
	✓ 112 E	11	17	92	1				
	✓ 113 E	15	19	54	2				
	✓ 114 E	21	24	91	2				
	✓ 123 E	19	23	274	2				
	✓ 124 E	80	35	575	2				
	170 N - 125 E	16	24	510	1				
	172.5 N - 101 E	35	21	137	1				
	✓ 106 E	16	20	102	1				
	✓ 107 E	10	22	83	1				
30	172.5 N - 108 E	52	22	41	1				

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GEOCHEMICAL LAB REPORT

FILE NO. G-159PAGE 2

KRAL NO.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
31	172.5 N - 109 E	21	19	98	1				
	110 E	13	17	39	1				
	111 E	18	17	72	1				
	118 E	22	21	84	1				
	119 E	7	21	88	1				
	123 E	11	20	45	1				
	Organic 124 E	93	21	350	3				
	172.5 N - 125 E	8	19	114	2				
	175 N - 100 E	23	22	64	1				
	102 E	22	17	100	1				
	105 E	11	16	100	1				
	106 E	14	15	58	1				
	108 E	13	15	43	1				
	109 E	17	16	52	1				
	110 E	32	21	142	1				
	111 E	14	19	62	1				
	112 E	19	23	214	1				
	113 E	22	30	65	1				
	114 E	31	18	70	1				
	115 E	14	17	93	1				
	116 E	13	16	96	1				
	117 E	12	16	85	1				
	123 E	13	18	73	1				
	124 E	8	15	98	1				
	175 N - 125 E	13	16	63	1				
	177.5 N - 100 E	22	16	84	1				
	105 E	15	16	82	1				
	106 E	12	17	51	1				
	107 E	14	15	72	1				
	108 E	84	14	58	1				
	109 E	23	15	86	1				
	110 E	58	15	65	1				
	177.5 N - 111 E	18	14	60	1				
64	180 N - 81 E	39	16	58	1				

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

FILE NO. G-159

PAGE 3

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
65	180 N ✓ 82 E	24	15	65	1				
	✓ 83 E	25	17	58	1				
	✓ 84 E	36	18	79	1				
	✓ 90 E	24	17	100	1				
	✓ 91 E	29	15	158	1				
	✓ 92 E	19	17	74	1				
	✓ 94 E	20	15	67	1				
	✓ 95 E	17	16	53	1				
	✓ 96 E	21	15	76	1				
	✓ 97 E	14	14	60	1				
	✓ 98 E	23	13	94	1				
	✓ 99 E	94	16	96	1				
	✓ 100 E	35	15	74	1				
	✓ 101 E	42	17	101	1				
	✓ 102 E	31	16	53	1				
	✓ 105 E	21	15	71	1				
	Stud 3 ✓ 105 E	17	13	66	1				
	✓ 106 E	51	18	76	1				
	✓ 107 E	19	17	63	1				
	✓ 108 E	28	18	102	1				
	✓ 109 E	26	17	83	1				
	✓ 110 E	39	16	71	1				
	✓ 111 E	21	15	67	1				
	✓ 123 E	13	14	51	1				
	180 N ✓ 125 E	17	16	48	1				
	182.5 N ✓ 80 E	29	15	74	1				
	✓ 81 E	23	13	84	1				
	✓ 82 E	24	15	85	1				
	✓ 83 E	29	15	87	1				
	✓ 84 E	19	13	79	1				
	✓ 85 E	20	13	68	1				
	✓ 88 E	19	14	64	1				
	✓ 93 E	14	16	58	1				
98	182.5 N ✓ 94 E	15	17	109	1				

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GEOCHEMICAL LAB REPORT

 FILE NO. G-159

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KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
99	182.5 N .95 E	49	17	62	1				
	.96 E	17	13	75	1				
	.97 E	18	14	63	1				
	.98 E	21	14	50	1				
	182.5 N .99 E	26	15	92	1				
	185 N .80 E	26	15	98	1				
	.81 E	21	16	90	1				
	.82 E	27	17	90	1				
	.83 E	28	15	62	1				
	.84 E	21	14	100	1				
	.85 E	32	15	138	1				
	.86 E	29	14	119	1				
	.87 E	20	15	117	1				
	.88 E	17	15	124	1				
	.89 E	18	14	75	1				
	.90 E	28	14	71	1				
	.93 E	14	16	90	1				
	.94 E	18	17	111	1				
	.95 E	17	15	116	1				
	.96 E	18	15	91	1				
	.97 E	32	15	77	1				
	.98 E	19	14	52	1				
	.99 E	19	16	76	1				
	185 N 100 E	20	16	114	1				
	Organic S12								
*	175 N 106 E	55	13	24	1				
	Organic S13								
	180 N 106 E	42	17	71	1				
	SS 13 silt								
125	180 N 106 E	56	20	70	1				
	18305	158	14	43	1				
	18306	40	15	40	2				
	18307	33	14	40	1				
	18308 ✓	29	17	41	1				
	18310 ✓	35	14	38	2				
	18312 ✓	31	13	36	2				
132	18313	32	11	39	3				

* Sample bag not clearly marked

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Bethlehem Copper Corporation,
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Vancouver, B. C.
V6E 2H8

B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4
PHONE 372-2784

JUN 06 1977

G. W. C. - Assay
E.A.
H.G.E.
R.E.F.

GEOCHEMICAL LAB REPORT

DATE June 1, 1977.

ANALYST D.A.E.

FILE NO. G-162

KRAL No.	IDENTIFICATION	PPM Cu	PPM Pb	PPM Zn	PPM Co	IDENTIFICATION		
1	160 N ✓ 112 E	16	18	75	1			
	✓ 113 E	25	20	107	1			
	✓ 114 E	17	22	62	1			
	✓ 115 E	19	19	57	1			
	✓ 116 E	31	20	55	1			
	✓ 117 E	20	19	153	1			
	✓ 119 E	16	26	215	3			
	✓ 120 E	14	17	101	2			
	✓ 121 E	21	22	94	3			
	✓ 122 E	29	19	216	2			
	✓ 123 E	12	24	175	3			
	✓ 124 E	17	17	47	2			
	160 N ✓ 125 E	13	22	143	1			
	162.5 R ✓ 109 E	11	19	55	2			
	✓ 114 E	12	16	80	2			
	✓ 115 E	23	16	79	1			
	✓ 118 E	21	21	139	7			
	✓ 119 E	16	21	294	3			
	✓ 120 E	15	20	126	1			
	✓ 121 E	11	20	139	3			
	✓ 122 E	13	15	48	2			
22	162.5 N ✓ 124 E	13	19	120	3			
	18318 ✓	54	20	44	5			
	18319 ✓	49	21	40	4			
	18324 ✓	50	17	36	4			
	18327 ✓	97	17	41	5			
	18342 ✓	60	19	53	3			
	18343 ✓	44	15	31	2			
	18344 ✓	52	23	46	1			
30	18345 ✓	31	20	46	3			

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PHONE 372-2784

- Assays

✓ HGE
/ REA

EAV

GEOCHEMICAL LAB REPORT

Bethlehem Copper Corporation,
2100 - 1055 West Hastings Street,
Vancouver, B. C.
V6E 2H8

DATE June 14, 1977.

ANALYST D.A.B.

FILE NO. G-165

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
1	150 N 100 E	8	15	15	1				
	" 101 E	15	23	57	1				
	" 102 E	64	30	83	2				
	" 103 E	28	23	64	1				
	" 104 E	84	30	64	2				
	" 105 E	19	14	46	1				
	" 106 E	15	15	66	1				
	" 107 E	23	23	51	1				
	" 108 E	35	26	39	1				
	" 109 E	35	25	56	1				
	" 110 E	24	19	62	1				
	" 111 E	74	106	74	1				
	" 112 E	47	26	104	1				
	" 113 E	18	20	162	1				
	150 N 114 E	17	18	49	1				
	152.5 N 100 E	13	15	90	1				
	" 101 E	12	11	49	1				
	" 102 E	15	10	40	1				
	" 106 E	16	15	86	1				
	" 107 E	9	12	65	1				
	" 108 E	17	14	85	1				
	" 109 E	14	14	43	1				
	" 110 E	14	12	56	1				
	" 111 E	9	12	74	1				
	" 112 E	11	15	72	1				
	" 113 E	31	21	147	1				
	" 114 E	30	20	155	2				
	" 115 E	21	15	66	1				
	" 116 E	18	13	56	1				
30	152.5 N 120 E	20	15	92	2				

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GEOCHEMICAL LAB REPORT

FILE NO. G-165

PAGE 2

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
31	152.5 N121 E	13	12	61	1				
"	123 E	11	12	105	1				
	152.5 N 124 E	15	13	63	1				
	155 N 110 E	10	12	97	1				
"	111 E	8	11	50	1				
"	112 E	7	12	49	1				
"	113 E	8	10	39	1				
"	114 E	5	9	31	1				
"	115 E	37	23	80	1				
"	116 E	28	18	67	1				
"	117 E	12	18	135	1				
"	119 E	29	23	326	2				
"	120 E	8	15	103	1				
"	123 E	7	9	146	1				
	155 N 125 E	16	17	82	1				
	257.5 N/100 E	39	32	99	1				
"	108 E	11	12	83	3				
"	109 E	11	17	205	3				
"	110 E	12	15	75	4				
"	111 E	17	15	92	4				
"	112 E	14	15	120	4				
"	115 E	15	16	83	3				
"	116 E	18	18	107	4				
"	117 E	11	14	133	3				
"	118 E	15	14	145	3				
"	119 E	15	16	130	2				
"	120 E	10	17	146	4				
"	121 E	9	20	105	2				
	157.5 N/125 E	13	14	70	1				
	160 N 126 E	23	17	104	1				
"	127 E	44	18	73	2				
"	128 E	8	14	56	1				
"	129 E	9	11	61	1				
64	160 N 130 E	40	16	85	2				

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

FILE NO. G-165

PAGE 3

KRAL No.	IDENTIFICATION	PPM Cu	PPM Pb	PPM Zn	PPM Mo	IDENTIFICATION			
65	160 N / 131 E	26	14	43	1				
	160 N / 132 E	9	10	66	1				
	162.5 N 127 E	20	11	45	1				
	" / 128 E	19	15	102	3				
	" 129 E	16	13	53	2				
	" / 130 E	10	14	94	2				
	" / 131 E	39	18	113	3				
	162.5 N 132 E	17	17	46	2				
	165 N / 127 E	23	19	50	3				
*	" / 128 E	23	15	64	3				
*	" / 128 E	30	18	59	3				
	" / 129 E	15	16	60	3				
	" / 130 E	5	17	62	1				
	" 131 E	28	23	238	1				
	165 N / 132 E	10	15	175	1				
	167.5 N 126 E	12	24	215	4				
	" / 127 E	10	21	153	2				
	" 128 E	12	18	208	2				
	" 129 E	15	20	175	1				
	" 130 E	11	19	214	3				
	" 131 E	9	18	112	2				
	167.5 N 132 E	18	20	136	2				
	170 N 126 E	18	27	820	3				
	" 127 E	7	21	285	3				
	" 128 E	11	21	289	1				
	" 129 E	13	16	106	2				
	" 130 E	7	14	106	2				
	170 N 132 E	16	18	128	1				
	195 N 105 E	25	18	111	2				
	S 14 Silt	39	19	79	1				
95	S 15 Organic	44	18	53	2				
	18373 Rock	52	28	28	2				
	18374 "	20	26	73	2				
98	18375 "	41	23	52	2				

* Two bags marked 165 N 128 E .

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B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4
PHONE 372-2784

Geochim - Assays

EA ✓
HGE ✓
REA ✓

GEOCHEMICAL LAB REPORT

DATE June 30, 1977.

ANALYST D. B.

FILE NO. G-168

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
1	130 . N 100 E	22	15	71	1				
	* 101 E	21	11	57	2				
	" 103 E	16	11	70	1				
	" 104 E	26	11	111	1				
	" 105 E	17	12	58	1				
	" 106 E	19	9	64	1				
	" 107 E	14	8	50	1				
	" 108 E	27	11	40	1				
	" *109 E	14	27	7	1				
	" 110 E	35	16	133	2				
	" 111 E	29	37	74	2				
	" 112 E	31	14	62	2				
	* 113 E	21	11	53	1				
	" 114 E	20	13	41	3				
	" 115 E	50	20	94	2				
	" 116 E	23	13	46	1				
	" 117 E	38	15	63	1				
	" 118 E	23	16	83	2				
	" 119 E	21	13	84	2				
	" 120 E	21	18	49	2				
	" 121 E	22	13	47	1				
	" 122 E	24	15	139	1				
	130 . N 125 E	32	15	47	1				
	132.5 N 100 E	14	12	117	1				
	" 101 E	15	12	81	1				
	* 102 E	19	13	129	1				
	" 103 E	14	11	65	2				
	" 104 E	25	14	72	2				
	" 105 E	18	12	52	2				
30	132.5 N 106 E	24	12	65	3				

* Organic

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GEOCHEMICAL LAB REPORT

FILE NO. G-168PAGE 2

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION		
31	132.5 N 107 E	21	10	47	1			
	" 108 E	28	12	56	2			
	" 109 E	22	14	79	3			
	" 110 E	18	14	85	4			
	" 111 E	16	11	64	1			
	" 112 E	17	11	47	1			
	" 113 E	24	13	69	2			
	" 114 E	21	13	38	2			
	" 115 E	20	13	52	1			
	" 116 E	14	11	44	1			
	" 117 E	24	16	65	2			
	" 118 E	18	16	90	2			
	" 119 E	22	13	74	2			
	" 120 E	22	13	76	2			
	" 121 E	27	15	85	2			
	" 122 E	29	16	78	2			
	" 123 E	21	13	63	2			
	" 124 E	24	15	89	3			
	132.5 N 125 E	37	14	59	1			
	135 N 100 E	19	12	48	1			
	" 101 E	17	11	70	1			
	" 102 E	14	10	59	2			
	" 103 E	77	306	421	4			
	" 104 E	11	12	50	1			
	" 105 E	18	13	52	2			
	" 106 E	30	12	35	1			
	" 107 E	16	13	62	2			
	" 108 E	23	14	45	1			
	" 109 E	25	11	56	2			
	" 112 E	25	14	76	1			
	" 113 E	18	13	76	2			
	" 114 E	19	10	43	1			
	" 115 E	23	13	119	2			
64	135 N 116 E	15	9	59	2			

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

FILE NO. G-168

PAGE 3

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
65	135 N 117 E	22	10	101	2				
	" 118 E	16	13	79	2				
	" 119 E	17	13	63	3				
	" 120 E	18	13	83	3				
	" 121 E	18	13	64	2				
	" / 122 E	23	13	86	2				
	" / 123 E	35	14	30	1				
	" / 124 E	18	15	49	1				
	135 / N 125 E	11	11	46	2				
	137.5 N 100 E	12	11	65	1				
	" 101 E	27	12	76	1				
	" 102 E	12	9	30	1				
	" 103 E	13	9	68	1				
	" 104 E	6	8	45	2				
	" 105 E	8	10	70	2				
	" 106 E	7	9	66	2				
	" 107 E	11	9	40	1				
	" 108 E	10	9	81	2				
	" 109 E	15	10	77	2				
	" 110 E	40	12	55	1				
	" 111 E	16	13	86	2				
	" 112 E	13	11	95	2				
	" 113 E	26	11	61	2				
	" 115 E	19	12	81	2				
	" 116 E	16	14	103	2				
	" 117 E	17	12	77	3				
	" 119 E	18	14	72	2				
	" / 121 E	13	11	40	1				
	" 122 E	30	14	66	2				
	" 123 E	24	16	57	1				
	" 124 E	28	15	65	2				
	" 125 E	15	12	42	1				
	" 125 E	26	15	102	2				
98	137.5 N 126 E	26	15	57	1				

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

FILE NO. G-168

PAGE 1

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Fe	IDENTIFICATION			
99	140 N 100 E	13	10	66	2				
	" 101 E	22	10	84	2				
	" 102 E	12	10	77	1				
	" 103 E	10	11	80	2				
	" 104 E	20	9	34	2				
	" 105 E	43	14	90	2				
	" 106 E	40	12	54	2				
	" 107 E	16	10	129	2				
	" 108 E	12	8	58	1				
	" 109 E	98	250	413	5				
	" 110 E	20	11	56	1				
	" 111 E	81	313	388	4				
	" 112 E	36	52	100	2				
	" 113 E	17	13	62	2				
	" 114 E	21	22	54	2				
	" 115 E	16	13	76	3				
	" 116 E	19	13	76	3				
	" 117 E	18	12	117	2				
	" 118 E	27	12	46	2				
	" 119 E	13	12	37	1				
	" 120 E	31	14	41	1				
	" 121 E	32	32	84	3				
	" 122 E	28	12	63	1				
	140 N 123 E	30	15	95	2				
	142.5 N 100 E	56	128	235	3				
	" 101 E	32	12	59	1				
	" 102 E	46	13	88	1				
	" 103 E	44	10	43	1				
	" 104 E	12	11	54	1				
	" 105 E	9	11	39	1				
	" 106 E	41	12	57	1				
	" 107 E	18	9	48	2				
	" 108 E	27	12	64	2				
132	142.5 N 109 E	13	12	96	2				

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

FILE NO. G-168

PAGE 5

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
133	142.5 N 110 E	14	10	87	2				
"	111 E	11	11	83	2				
"	112 E	24	11	55	3				
"	113 E	18	10	49	2				
"	114 E	19	10	76	2				
"	115 E	9	8	57	2				
"	116 E	11	11	76	1				
"	117 E	22	15	75	2				
"	118 E	47	14	72	2				
"	119 E	12	10	91	2				
	142.5 N 121 E	64	1	67	2				
	145 N 100 E	49	40	72	4				
"	101 E	43	18	75	6				
"	102 E	18	12	76	2				
"	103 E	22	13	64	2				
"	104 E	23	11	76	3				
"	105 E	18	11	76	3				
"	106 E	17	9	58	2				
"	107 E	11	9	39	2				
"	108 E	16	10	90	2				
"	109 E	24	10	86	2				
"	110 E	14	9	66	2				
"	111 E	16	9	48	2				
"	112 E	12	10	55	2				
"	113 E	15	12	53	2				
"	114 E	13	10	66	2				
	145 N 121 E	14	11	68	1				
	147.5 N 100 E	10	7	66	2				
"	101 E	16	11	86	2				
"	102 E	15	10	84	2				
"	103 E	18	15	68	2				
"	104 E	85	21	80	2				
"	105 E	15	12	52	1				
166	147.5 N 106 E	18	13	59	2				

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GEOCHEMICAL LAB REPORT

FILE NO. G-168

PAGE 6

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
167	147.5 N 107 E	22	13	84	3	Method: -80 Mesh			
	* / 108 E	27	14	81	3	Hot Acid Extraction			
	" . 109 E	16	14	90	2	Atomic Absorption			
	" v 110 E	58	16	222	3				
	" . 111 E	13	11	69	3				
	" . 112 E	11	10	47	2				
	* " 121 E	21	11	58	2				
	* / 122 E	11	10	66	2				
	* . 123 E	8	9	103	3				
	" v 124 E	15	9	62	3				
	147.5 N 125 E	9	9	58	2				
	11974 /	14	10	64	2				
	18396 ✓	17	11	66	3				
	18397 ✓	23	17	38	3				
	18398 ✓	20	21	74	3				
	18399 ✓	14	11	14	1				
	18400 ✓	20	32	48	2				
	18401 ✓	15	25	37	2				
	18402 ✓	14	16	37	3				
	18403 ✓	8	20	26	3				
	18404 ✓	71	70	42	3				
	18405 ✓	9	24	28	3				
	18406 ✓	22	12	42	2				
	18407 "	56	17	59	3				
	18408 /	11	12	37	3				
	18409 ✓	21	12	34	2				
	18410 ✓	23	49	31	2				
	18411	76	17	55	4				
	18509	50	17	63	6				
	18510	10	14	53	4				
197	18511	13	14	17	6				

**Kamloops Research
&
Assay Laboratory
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JUL 12 1977

HGE C
REAF
EA

B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - BOX 948 - KAMLOOPS, B.C. V2C 5N4
PHONE 372-2784

GEOCHEMICAL LAB REPORT

Bethlehem Copper Corporation,
2100 - 1055 West Hastings Street,
Vancouver, B. C. V6E 2R8

DATE July 8, 1977.

ANALYST D. B.

FILE NO. G-170

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
1	100 N / 100 E	21	5	109	1				
"	" / 101 E	22	4	64	1				
"	" / 102 E	34	14	57	2				
"	" / 103 E	26	17	41	1				
"	" / 104 E	24	19	70	2				
"	" / 105 E	28	19	61	3				
"	" / 106 E	27	30	67	2				
"	" / 107 E	23	30	60	2				
"	" / 108 E	19	21	86	2				
"	" / 109 E	15	15	50	2				
"	" / 110 E	17	15	43	2				
"	" / 111 E	16	17	27	1				
"	" / 112 E	20	15	62	2				
"	" / 113 E	41	15	64	2				
"	" / 114 E	19	18	57	2				
"	" / 115 E	19	14	65	1				
"	" / 116 E	17	15	66	2				
"	" / 117 E	10	14	33	2				
"	" / 118 E	12	15	26	1				
"	" / 119 E	12	15	61	2				
"	" / 120 E	17	7	85	1				
"	" / 121 E	17	7	78	1				
"	" / 122 E	20	13	73	3				
"	" / 123 E	17	14	63	3				
"	100 N / 124 E	29	21	81	3				
"	105 N / 102 E	24	14	46	2				
"	" / 103 E	29	16	52	2				
"	" / 104 E	14	29	57	2				
"	" / 105 E	18	14	66	2				
20	105 N / 106 E	14	17	77	2				

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

FILE NO. G-170

PAGE 2

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
31	105 N 107 E	21	15	65	3				
"	108 E	22	18	63	2				
"	109 E	17	14	43	1				
"	110 E	20	15	60	1				
"	111 E	15	16	97	1				
"	112 E	17	12	75	2				
"	113 E	15	14	48	2				
"	114 E	21	18	84	3				
"	115 E	16	14	59	2				
"	116 E	14	15	44	3				
"	117 E	17	12	66	3				
"	120 E	21	15	82	3				
"	122 E	20	17	89	4				
"	123 E	112	16	53	3				
"	124 E	18	14	59	3				
"	125 E	91	13	70	3				
110 N	101 E	13	13	28	2				
"	102 E	43	17	36	2				
"	103 E	35	14	36	2				
"	104 E	18	14	52	3				
"	105 E	17	16	65	4				
"	106 E	19	17	79	3				
"	107 E	14	12	21	2				
"	108 E	48	14	43	2				
"	109 E	111	14	37	3				
"	110 E	14	13	52	2				
"	111 E	19	17	64	2				
"	112 E	12	17	59	2				
"	113 E	24	17	76	3				
"	115 E	15	15	58	3				
"	120 E	15	15	65	2				
"	121 E	16	19	72	3				
"	122 E	28	15	49	2				
61	110 N 123 E	14	14	41	2				

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

FILE NO. G-170

PAGE 3

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
65	110 N / 125 E	16	19	61	2				
	115 N / 101 E	17	16	79	2				
	" ✓ 102 E	18	17	55	3				
	" ✓ 103 E	18	14	24	2				
	" 104 E	10	13	30	2				
	" 105 E	16	15	56	3				
	" 106 E	10	14	54	2				
	" 107 E	8	15	55	2				
	" 108 E	12	15	72	2				
	" 109 E	280	305	370	68				
	" 110 E	14	17	74	2				
	" 111 E	60	21	51	2				
	" 112 E	29	9	57	2				
	" / 113 E	22	14	93	3				
	" ✓ 118 E	12	9	41	2				
	" ✓ 121 E	47	6	64	2				
	" / 122 E	27	8	74	2				
	" / 123 E	18	7	72	1				
	" ✓ 124 E	21	5	52	1				
	120 N	✓ 125 E	11	5	38	1			
✓ 100 E		24	6	36	1				
" ✓ 101 E		11	6	38	1				
" ✓ 102 E		8	9	44	3				
" ✓ 103 E		6	8	99	3				
" ✓ 104 E		15	8	64	3				
" ✓ 105 E		10	8	40	3				
" 106 E		28	8	61	2				
" ✓ 107 E		40	26	85	3				
" / 108 E		27	11	35	2				
" / 109 E		15	8	30	2				
" / 110 E		15	6	26	1				
" 111 E		21	23	43	2				
" 112 E	25	11	34	2					
98	120 N 113 E	29	9	27	1				

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

FILE NO. G-170

PAGE 4

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
99	120 N ✓ 114 E	22	8	30	2				
	" 115 E	24	11	49	3				
	* 116 E	24	57	85	2				
	" 117 E	39	11	61	3				
	" ✓ 118 E	61	37	99	3				
	" 119 E	91	18	101	2				
	* 120 E	43	70	113	3				
	" 121 E	15	11	60	3				
	120 N 122 E	15	7	51	2				
	125 N 100 E	21	12	50	2				
	" ✓ 101 E	17	9	50	3				
	* ✓ 102 E	23	11	44	2				
	" 103 E	16	14	48	2				
	" 104 E	26	12	47	2				
	" 105 E	33	12	45	2				
	" 106 E	20	11	44	2				
	" ✓ 107 E	14	9	32	2				
	" 108 E	17	8	43	1				
	" 109 E	16	8	42	2				
	" 110 E	27	8	43	1				
	" 111 E	19	8	34	2				
	" 112 E	27	8	40	2				
	" 113 E	11	10	36	1				
	" 114 E	14	9	32	2				
	* 115 E	28	13	52	2				
	" 116 E	13	10	42	2				
	" 117 E	23	12	40	1				
	* 118 E	29	13	49	2				
	" 119 E	17	13	87	2				
	" 120 E	32	15	60	1				
	* 121 E	18	14	72	3				
	" 122 E	30	16	75	3				
	" 123 E	13	14	69	2				
132	125 N / 124 E	11	15	77	3				

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

FILE NO. G-170

PAGE 5

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION		
133	150 N / 72 E	43	16	67	4			
"	✓ 73 E	28	14	55	2			
"	✓ 74 E	36	10	74	2			
"	✓ 75 E	69	12	203	4			
"	✓ 76 E	59	13	85	3			
"	✓ 77 E	45	10	55	2			
"	✓ 78 E	33	12	46	3			
"	✓ 79 E	22	9	58	2			
"	✓ 80 E	25	10	53	2			
"	✓ 83 E	17	12	83	2			
"	✓ 84 E	20	11	58	2			
"	✓ 85 E	19	11	71	2			
"	✓ 87 E	24	10	69	2			
"	✓ 88 E	16	7	59	2			
"	✓ 89 E	14	7	58	1			
"	✓ 90 E	15	7	56	1			
"	✓ 91 E	17	3	54	2			
"	✓ 92 E	23	8	57	1			
"	✓ 93 E	17	7	54	2			
"	✓ 94 E	17	9	56	1			
"	✓ 95 E	13	6	52	2			
"	✓ 96 E	21	7	70	2			
"	✓ 97 E	14	6	102	2			
"	✓ 98 E	14	6	113	3			
	150 N / 99 E	18	7	83	2			
	155 N / 75 E	18	7	94	3			
"	✓ 76 E	26	8	75	3			
"	✓ 77 E	69	9	58	2			
"	✓ 78 E	15	6	54	2			
"	✓ 79 E	21	9	62	2			
"	✓ 80 E	19	11	23	4			
"	✓ 81 E	59	15	32	2			
"	✓ 82 E	39	8	54	2			
166	155 N / 83 E	23	9	41	2			

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

FILE NO. G-170PAGE 6

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
167	155 N 84 E	13	9	63	1				
	" 85 E	11	7	55	2				
	" 86 E	8	7	45	1				
	" 87 E	9	8	43	2				
	" 88 E	15	10	56	1				
	" 89 E	13	10	106	2				
	155 N 99 E	22	12	87	3				
	160 N 67 E	40	7	55	2				
	" 68 E	30	8	71	3				
	" 69 E	32	8	63	2				
	" 70 E	124	7	61	2				
	" 71 E	41	7	61	2				
	" 72 E	31	8	47	2				
	" 73 E	29	6	56	1				
	" 74 E	26	8	61	1				
	" 75 E	23	5	70	2				
	" 76 E	30	9	54	1				
	" 77 E	21	8	83	1				
	" 78 E	18	11	132	2				
	" 80 E	25	10	95	1				
	" 81 E	19	8	74	2				
	160 N 91 E	18	6	127	3				
	165 N 67 E	35	9	74	3				
	" 68 E	31	8	82	3				
	" 69 E	30	12	93	2				
	165 N 70 E	46	12	89	2				
	170 N 67 E	36	10	78	2				
	" 68 E	49	11	79	2				
	" 69 E	51	12	73	3				
	" 70 E	33	11	126	2				
	" 71 E	39	9	88	3				
	" 72 E	28	21	82	2				
	" 74 E	19	10	51	2				
200	170 N 75 E	26	14	94	2				

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GEOCHEMICAL LAB REPORT

FILE NO. G-170

PAGE 7

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
201	170 N 76 E	31	20	88	2				
	" 77 E	32	11	69	3				
	" 78 E	23	9	65	2				
	" 79 E	24	9	89	2				
	" 80 E	18	8	109	2				
	" 83 E	17	7	72	2				
	" 86 E	22	8	76	2				
	" 87 E	25	7	59	3				
	" 90 E	16	6	125	3				
	" 93 E	28	10	125	3				
	" 95 E	15	5	139	3				
	" 96 E	24	13	174	3				
	" 97 E	13	12	102	2				
	170 N 99 E	19	8	136	1				
	175 N 67 E	36	20	77	3				
	" 68 E	39	9	66	2				
	" 69 E	52	12	78	2				
	" 70 E	32	9	73	2				
	" 72 E	51	25	139	2				
	" 73 E	46	12	67	1				
	" 74 E	39	16	79	2				
	" 75 E	51	103	144	3				
	" 76 E	28	18	71	2				
	" 77 E	33	10	70	3				
	" 78 E	48	62	109	2				
	" 79 E	34	10	12	1				
	" 80 E	44	10	68	1				
	" 81 E	29	7	65	2				
	" 86 E	20	8	78	2				
	" 87 E	21	7	45	2				
	" 88 E	24	10	74	3				
	" 91 E	23	32	113	2				
	" 92 E	23	9	111	2				
234	175 N 93 E	29	8	66	3				

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

FILE NO. G-170

PAGE 8

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
235	175 N 94 E ✓	21	8	76	2				
	" 95 E ✓	21	10	72	2				
	" 97 E ✓	36	15	72	2				
	" 98 E ✓	26	6	44	1				
	175 N 99 E ✓	26	10	112	3				
	S. silt 115.25N122.5E	25	9	118	2				
	18412 ✓	52	11	34	1				
	18413 ✓	65	11	52	3				
	18414 ✓	66	20	106	6				
	18415 ✓	47	11	40	3				
	18416 ✓	34	7	41	6				
	18417 ✓	5	5	26	3				
	18418 ✓	25	7	23	2				
	18419 ✓	47	6	31	3				
	18420 ✓	80	7	33	2				
	18421 ✓	74	20	44	5				
	18422	41	7	44	4				
	18423	45	24	71	6				
	18424 ✓	46	9	40	5				
	18425 ✓	35	7	29	4				
	18426 ✓	42	6	36	2				
	18427 ✓	102	6	44	3				
	18428 ✓	71	7	41	3				
	18429 ✓	22	6	48	3				
	18512 ✓	6	8	32	1				
	18513 ✓	31	10	34	3				
	18514 ✓	33	7	81	2				
	18515 ✓	325	8	25	3				
	18516 ✓	24	7	46	2				
	18517 ✓	25	6	24	3				
	18518 ✓	36	9	30	3				
	18519 ✓	39	7	40	1				
	18520 ✓	6	17	21	3				
268	18521 ✓	47	8	39	5				

Kamloops Research
&
Assay Laboratory
LTD.



Bethlehem Copper Corporation,
2100 - 1055 West Hastings Street,
Vancouver, B. C.
V6S 2H8

B.C. CERTIFIED ASSAYERS

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4
PHONE 312-2784

JUL 12 1977

Guidance - Assays
HGE ✓
REA ✓
EA ✓

GEOCHEMICAL LAB REPORT

DATE July 9, 1977.

ANALYST D.R.

FILE NO. G-173

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm. Mo	IDENTIFICATION		
1	130 N - 73 E	18	12	90	1			
	" - 74 E	18	9	71	1			
	" 75 E	17	6	48	1			
	" 76 E	24	8	78	2			
	" 77 E	20	9	49	2			
	" 78 E	26	6	37	1			
	" 79 E	15	6	53	1			
	" 80 E	26	7	56	2			
	" 81 E	20	8	37	1			
	" 82 E	26	8	33	1			
	" 84 E	15	7	49	1			
	" 85 E	19	5	51	1			
	" 86 E	20	6	32	1			
	" 87 E	12	3	26	1			
	" 88 E	13	4	17	1			
	" 89 E	21	5	27	2			
	" 90 E	14	5	30	1			
	" 91 E	15	4	27	1			
	" 92 E	16	5	24	1			
	" 93 E	18	6	32	1			
	" 94 E	19	7	50	1			
	" 95 E	14	5	26	1			
	" 96 E	13	5	23	1			
	" 97 E	18	8	78	1			
	130 N 99 E	20	5	46	1			
	135 N 75 E	29	13	80	2			
	" 76 E	21	6	45	2			
	" 77 E	11	4	44	1			
	" 78 E	16	7	73	1			
30	135 N 79 E	18	6	64	1			

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

FILE NO. G-173

PAGE 2

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION			
31	135 N ✓ 80 E	17	7	64	1				
	" ✓ 81 E	39	6	72	1				
	" ✓ 82 E	17	4	35	1				
	" ✓ 83 E	16	4	29	1				
	" ✓ 84 E	14	4	27	1				
	" ✓ 85 E	11	5	58	1				
	" ✓ 86 E	16	6	48	1				
	" ✓ 87 E	10	7	61	1				
	" ✓ 88 E	17	8	37	2				
	" ✓ 89 E	20	8	58	1				
	" ✓ 90 E	41	13	54	1				
	" ✓ 91 E	21	10	41	1				
	" ✓ 92 E	21	11	66	2				
	" ✓ 93 E	23	7	24	2				
	" ✓ 94 E	15	8	27	1				
	" ✓ 95 E	9	7	26	1				
	" ✓ 96 E	11	8	43	1				
	" ✓ 97 E	22	8	58	1				
	" ✓ 98 E	30	9	66	1				
	135 N ✓ 99 E	14	8	74	1				
	140 N ✓ 75 E	20	9	57	1				
	" ✓ 76 E	33	7	67	1				
	" ✓ 77 E	18	7	100	2				
	" ✓ 78 E	20	6	78	1				
	" ✓ 79 E	22	8	53	2				
	" ✓ 80 E	46	12	49	2				
	" ✓ 81 E	39	5	45	2				
	" ✓ 82 E	23	3	30	2				
	" ✓ 83 E	48	6	45	2				
	" ✓ 84 E	36	8	56	1				
	" ✓ 85 E	62	10	55	1				
	" ✓ 86 E	31	6	34	1				
	" ✓ 87 E	36	10	96	1				
64	140 N ✓ 88 E	31	9	71	3				

Kamloops Research & Assay Laboratory Ltd.

GEOCHEMICAL LAB REPORT

FILE NO. G-173

PAGE 3

KRAL No.	IDENTIFICATION	ppm Cu	ppm Pb	ppm Zn	ppm Mo	IDENTIFICATION		
65	140 N ✓ 89 E	18	7	86	1			
	" ✓ 90 E	18	10	105	1			
	" ✓ 91 E	19	7	57	1			
	" ✓ 92 E	18	9	61	1			
	" ✓ 93 E	14	5	63	1			
	" ✓ 94 E	22	10	61	1			
	" ✓ 95 E	16	5	73	1			
	" ✓ 96 E	25	7	57	1			
	" ✓ 97 E	8	6	73	1			
	" ✓ 98 E	9	7	72	1			
	140 N ✓ 99 E	12	7	77	2			
	145 N ✓ 74 E	14	11	75	2			
	" ✓ 75 E	38	11	59	2			
	" ✓ 76 E	17	9	58	1			
	" ✓ 77 E	34	8	62	1			
	" ✓ 78 E	21	8	67	1			
	" ✓ 79 E	11	7	78	1			
	" ✓ 80 E	18	10	93	1			
	" ✓ 81 E	16	7	60	2			
	" ✓ 82 E	12	7	53	1			
	" ✓ 84 E	35	9	106	2			
	" ✓ 86 E	16	9	119	2			
	" ✓ 87 E	33	10	90	2			
	" ✓ 88 E	12	8	65	1			
	" ✓ 89 E	20	5	80	1			
	" ✓ 90 E	12	7	57	1			
	" ✓ 91 E	24	7	54	1			
	" ✓ 92 E	11	9	56	1			
	" ✓ 93 E	22	6	187	1			
	" ✓ 94 E	18	6	57	1			
	" ✓ 95 E	30	9	64	1			
	" ✓ 96 E	15	8	71	1			
	" ✓ 97 E	11	6	67	1			
98	145 N ✓ 98 E	11	5	56	1			

DRILL HOLE LOG

BETHLEHEM COPPER CORPORATION

SHEET No. 1

Property	Guichon - Stud Claim	Hole No.	PC-77-3	Bearing	-	Elevation	725 m	Logged by R. J. Nethery				
District	Ashcroft	Length	106.7 m (350')	Dip	90°	Overburden	1.52 m (5')	Date October 4, 1977				
Commenced	August 16, 1977	Latitude	215 + 00 N	Hor. Comp.		Recovery						
Completed	August 17, 1977	Departure	85 + 00 E	Vert. Comp.	106.7 m	Purpose	To test geophysical anomaly					

DESCRIPTION	SULPHIDES	OXIDES	OTHERS	FROM	TO	SAMPLE No.	% Cu	% Pb	Oz Au	Oz Ag	% As	% Zn
CONGLOMERATE & MENDOR SHALE - mostly sedimentary and volcanic pebbles.	Minor pyrite			5	10		.0053	Tr.	Tr.	.038	.0051	.0086
- strong chlorite alteration.	Approx .5% to max. of it sulphides			10	20		.0063				.0053	.0100
- weak epidote				20	30		.0058				.0043	.0095
- shale fragments moderately common				30	40		.0051				.0049	.0090
- porphyritic rock and meta-volcanic fragments common				40	50		.0060			↓	.0040	.0092
				50	60		.0048			.026	.0040	.0095
				60	70		.0051				.0038	.0091
				70	80		.0052				.0047	.0090
				80	90		.0051				.0048	.0091
				90	100		.0047			↓	.0044	.0090
				100	110		.0046			.020	.0040	.0091
				110	120		.0043	↓	↓	.020	.0040	.0096

DRILL HOLE LOG

BETHLEHEM COPPER CORPORATION

SHEET No. 2

Property Guichon

Hole No. PC-77-3

Logged by R. J. Nethery

Date October 1977

DESCRIPTION	SULPHIDES	OXIDES	OTHERS	FROM	TO	SAMPLE No.	% Cu	% Ni	Oz Au	Oz Ag	% Pb	% Zn
CONGLOMERATE AND MINOR SHALE .5% - 1% py. which is disseminated and on fractures.				120	130		.0057	Tr.	Tr.	.020	.0049	.0109
				130	140		.0074			↓	.0044	.0121
Shale bands possible some intrusive or meta-intrusive fragments.				140	150		.0062			↓	.0045	.0113
130-150' Mostly shale chips (60%)				150	160		.0049			.023	.0040	.0080
Minor garnet visible				160	170		.0056				.0040	.0085
Now shale <15% of chips				170	180		.0043				.0042	.0086
↓				180	190		.0055				.0041	.0098
↓				190	200		.0058		↓	↓	.0041	.0116
Fragments mostly greywacke, shale, sandstone and lesser volcanics - obviously conglomerate				200	210		.0049		.01	.023	.0046	.0088
				210	220		.0058				.0043	.0160
				220	230		.0057				.0041	.0084
				230	240		.0057				.0040	.0082
↓				240	250		.0048	↓	↓	↓	.0036	.0103

DRILL HOLE LOG

BETHLEHEM COPPER CORPORATION

SHEET No 1 of 3

Property	Galician - Stud Claims	Hole No.	PC 77-2	Bearing	-	Elevation	1,640 m.	Logged by R. J. Nethery				
Distric	Ashcroft	Length	106.7 m. (350')	Dip	90°	Overburden	3.05 m.	Date September 9, 1977				
Commenced	August 3, 1977	Latitude	157 + 50 N	Hor. Comp.		Recovery						
Completed	August 8, 1977	Departure	117 + 53 D	Vert. Comp.	106.7 m.	Purpose Test geophysical and geochemical anomaly						

DESCRIPTION	SULPHIDES	OXIDES	OTHERS	FROM	TO	SAMPLE No.	% Cu.	% Ni	Oz Au.	Oz Ag.	% Pb.	% Zn.
Chips siliceo in appearance; that show some degree of iron-staining	< 1% py			10	20		.0013	Tr.	Tr.	.020	.0045	.012
Py as blebs and disseminations. Rock is silicified porphyritic volcanic												
Iron stained as above. Less py than 10 - 20	minor py			20	30		.0013				.0021	.017
Less iron staining. Chips grey or pinkish or greenish. Often mottled in appearance. Irregular shaped feldspars may be present. Also some fragments? Pyroclastic or greywacke?	1 - 2% py			30	40		.0018				.0022	.036
More siliceo than 30 - 40. Weakly chloritized.	1 - 2% py minor po			40	50		.0028			↓	.0169	.011
Several light coloured chips containing quartz, some plagi and hornblende (a few in 40 - 50 also). Chips variable. Approx. 75% chips rusty. Weakly chloritized.	1 - 2% py			50	60		.0023			.026	.0005	.011
Similar to 50 - 60. Chips v. variable in texture and colour. Some chips have abrupt rock or alteration changes. Weakly chloritized.	< 1% py			60	70		.0014				.0010	.013
Large proportion of siliceous looking chips. 10% chips rusty to some extent	1 - 2% py			70	80		.0016				.0026	.031
Similar to 70 - 80 but more limonite staining (> 75%)	< 1% py			80	90		.0025				.0290	.82
One chip indicates rock contains frags: pinkish siliceo iron stained rock with plagi. phenos appears to be host rock while fragments are green fine grained with serite blebs and some fine grained matrix. 25% limonite-stained chips. There appears to be some calcite present (prior to this very fine).	< 1% py									↓		
	< 1% py			90	100		.0025				.0356	.50
Similar to 90 - 100 (less so apparent). Some chips coarser grained	< 1% py			100	110		.0030	↓	↓	.015	.0168	.20

DRILL HOLE LOG

BETHLEHEM COPPER CORPORATION

SHEET No. 1 of 3

Property	Quilboon-Stud Claims	Hole No.	9C-77-1	Bearing	-	Elevation	1,630 m.	Logged by R.J. Nethery				
District	Ashcroft	Length	91.44 m. (300')	Dip	90°	Overburden	3.05 m. (10')	Date September 7, 1977				
Commenced	July 29, 1977	Latitude	160 + 50 N	Hor. Comp.	-	Recovery						
Completed	August 2, 1977	Departure	120 + 50 E	Vert. Comp.	91.44 m.	Purpose	Test geophysical and geochemical anomaly					

DESCRIPTION	SULPHIDES	OXIDES	OTHERS	FROM	TO	SAMPLE No.	% Cu.	% Ni	Oz Au.	Oz Ag	% Pb	% Zn
Rock appears to be highly silicified volcanic Most chips limonite stained and siliceous looking				10	20		.0015	Tr.	Tr.	.023	.0043	.013
limonite staining weaker. Siliceous, grey	Minor py			20	30		.0014				.0030	.0063
Occasional limonite stained chip. Otherwise grey and glassy looking, v. fine grained, Co present. Volcanic flow?	1-2% py			30	40		.0016				.0045	.008
Thin chips show glassy matrix to be composed mainly of tiny laths of plagioclase (?) with some brown laths-biotite or hornblende; also spotty in appearance due to tiny opaques.	1-2% py occas. po			40	50		.0009				.0033	.0075
Phenocrysts are predominantly feldspar. Rock type is similar to E.O.H.	~ 1% py occas. po			50	60		.0006	Tr.	Tr.	.016	.0033	.0069
Weakly chloritized in places	~ 1% py ~ 1% po			60	70		.0008				.0053	.0054
"	~ 1% py ~ 1% finely dissect. po			70	80		.0010				.0041	.0070
Chips small.	~ 1% py 1-2% po			80	90		.0008				.0035	.0064
Chips small. Occasional small vitreous pinkish crystals - garnet?	< 1% py 1-2% po			90	100		.0005				.0029	.0066
Ground mass is more crystallized - tiny flakes of biotite or hornblende present. Less cc.	"			100	110		.0005	Tr.	.005	.017	.0033	.0060
More sulphides present as disseminated concentrations in a few chips	~ 1% py 2-3% po			110	120		.0007				.0022	.0061
" Chips small.	"			120	130		.0001				.0025	.0060

DRILL HOLE LOG

BETHLEHEM COPPER CORPORATION

SHEET No. 1 of 3

Property	Quichon-Stud Claims	Hole No.	PC-77-1	Bearing	-	Elevation	1,630 m.	Logged by R.J. Nethery				
District	Ashcroft	Length	91.44 m. (300')	Dip	90°	Overburden	3.05 m. (10')	Date September 7, 1977				
Commenced	July 29, 1977	Latitude	160 + 50 N	Hor. Comp.	-	Recovery						
Completed	August 2, 1977	Departure	120 + 50 E	Vert. Comp.	91.44 m.	Purpose	Test geophysical and geochemical anomaly					

DESCRIPTION	SULPHIDES	OXIDES	OTHERS	FROM	TO	SAMPLE No	% Cu	% Ni	Oz Au	Oz Ag	% Pb	% Zn
Rock appears to be highly silicified volcanic with chips limonite stained and siliceous looking				10	20		.0015	Tr.	Tr.	.023	.0043	.013
limonite staining weaker. Siliceous, grey	Minor py			20	30		.0014				.0030	.0063
Occasional limonite stained chip. Otherwise grey and glassy looking, v. fine grained, Cc present. Volcanic flow?	1-2% py			30	40		.0016				.0045	.008
Thin chips show glassy matrix to be composed mainly of tiny laths of plagioclase (?) with some brown laths-biotite or hornblende; also sooty in appearance due to tiny opaques. Phenocrysts are predominantly feldspar. Rock type is similar to E.O.H.	1-2% py occas. po			40	50		.0009				.0033	.0075
Weakly chloritized in places	~ 1% py occas. po			50	60		.0006	Tr.	Tr.	.016	.0033	.0069
"	~ 1% py + 1% po			60	70		.0008				.0053	.0054
"	~ 1% py + 1% finely dissem. po			70	80		.0010				.0341	.0070
Chips small.	~ 1% py 1-2% po			80	90		.0008				.0035	.0064
Chips small. Occasional small vitreous pinkish crystals - garnet?	~ 1% py 1-2% po			90	100		.0005				.0029	.0066
Ground mass is more crystallized - tiny flakes of biotite or hornblende present. Less cc.	"			100	110		.0005	Tr.	.035	.017	.0333	.0060
More sulphides present as disseminated concentrations in a few chips	~ 1% py 2-3% po			110	120		.0007				.0022	.0061
Chips small.	"			120	130		.0004				.0025	.0060

DRILL HOLE LOG

BETHLEHEM COPPER CORPORATION

SHEET No. 2 of 3

Property Guichon - Stud Claims Hole No. PC 77-1

Logged by R. J. Nethery

Date September 7, 1977

DESCRIPTION	SULPHIDES	OXIDES	OTHERS	FROM	TO	SAMPLE No.	% Cu.	% Ni	Oz Au	Oz Ag.	% Pb	% Zn
- chips small (fspr phenos less well defined at borders or poorer shape)	~ 1% py ~ 3% po			130	140		.0003	Tr.	.005	.017	.0022	.0050
Sample missing				140	150			↓	↓	↓		
- a few small garnets present, usually associated with chlorite and/or ep.	< 1% py 1-2% po			150	160		.0006	Tr.	Tr.	.017	.0022	.0052
"	~ 1% py 1-2% po			160	170		.0007				.0024	.0053
" Po also in clusters	1-2% py 1-2% po			170	180		.0005				.0025	.0060
"	< 1% py 1-2% po			180	190		.0005				.0024	.0058
"	"			190	200		.0004	↓	↓	↓	.0036	.0060
"	< 1% py 1-2% po			200	210		.0004	Tr.	.005	.015	.0022	.0060
"	~ 1% py 2-3% po			210	220		.0007				.0039	.0083
"	1-2% py 2-3% po			220	230		.0007				.0039	.0073
"	< 1% py ~ 2% po			230	240		.0006				.0035	.0066
"	~ 1% py 1-2% po			240	250		.0006	↓	↓	↓	.0038	.0059
"	~ 1% py 2-3% po			250	260		.0007	Tr.	.005	.015	.0020	.0062



OCT 20 1977 SA ✓ CGA
GENERAL TESTING LABORATORIES

DIVISION SUPERINTENDENCE COMPANY (CANADA) LTD.

1001 EAST PENDER ST. VANCOUVER B.C., CANADA V6A 1W
 PHONE (604) 254-1547 TELEF. 04 5075-4 CADLE SUPERVISOR

Guichen - Assay

CERTIFICATE OF ASSAY

TO:
 BETHLEHEM COPPER CORPORATION LTD.
 2100 - 1055 West Hastings Street
 Vancouver, B.C.
 V6E 2H8

No.: 7710-0351B DATE: Oct. 19/77

We hereby certify that the following are the results of assays on: **Pulp**

MARKED	GOLD	SILVER	Nickel	XX	XXX	XXX	XXX	XXX
	oz/st	oz/st	NI (%)					
B.C. Stud 77-3 Composite 300 - 350	0.002	trace	0.010					

NOTE: REJECTS RETAINED ONE MONTH. PULPS RETAINED THREE MONTHS. ON REQUEST PULPS AND REJECTS WILL BE STORED FOR A MAXIMUM OF ONE YEAR.

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L. WONG
 L. WONG

PROFICIAL ANALYST

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER American Society For Testing Materials - The American Oil Chemists Society - Canadian Testing Association
 REFEREE AND OR OFFICIAL CHEMISTS FOR National Institute Of Oilseed Products - The American Oil Chemists Society
 OFFICIAL WEIGHMASTERS FOR Vancouver Board Of Trade



Guichon - Assays
GENERAL TESTING LABORATORIES
 DIVISION SUPERINTENDENCE COMPANY CANADA LTD

1001 EAST PENDER STREET VANCOUVER 6 B.C. CANADA
 PHONE (604) 254-1647 TELE (604) 597-5111 CABLE SUPERV 50

TO:
 BETHLEHEM COPPER CORPORATION LTD.
 2100 - 1055 West Hastings Street
 Vancouver, B.C.
 V6E 2H8

EA ✓
H&E ✓
REA
SEMI QUANTITATIVE SPECTROGRAPHIC ANALYSES CERTIFICATE

No: 7710-0351 DATE: Oct. 13/77

We hereby certify that the following are the results of spectrographic analyses made on: **Pulps**

		1	2	3	4	5	SAMPLE No	DESCRIPTION	HOLE
Aluminum	Al	5.	5.	5.	8.	5.	1 5 - 120	✓ PC-77-3	
Antimony	Sb	ND	ND	ND	ND	ND	2 120 - 150	PC-77-3	
Arsenic	As	ND	ND	ND	ND	ND	3 40 - 300	✓ PC-77-1	
Barium	Ba	0.2	0.1	0.01	0.2	0.03	4 300 - 350	PC-77-3 *	
Beryllium	Be	0.001	ND	ND	ND	ND	5 40 - 120	✓ PC-77-2	
Bismuth	Bi	ND	ND	ND	ND	ND			
Boron	B	0.005	0.005	ND	0.001	0.001			
Cadmium	Cd	ND	ND	ND	ND	ND			
Calcium	Ca	5.	5.	2.	5.	1.			
Chromium	Cr	0.01	0.01	ND	0.01	ND			
Cobalt	Co	ND	ND	ND	ND	ND			
Copper	Cu	0.01	0.01	0.001	0.01	0.005			
Gallium	Ga	ND	ND	ND	ND	ND			
Gold	Au	TRACE	TRACE	TRACE	TRACE	TRACE			
Iron	Fe	2.	2.	2.	2.	2.			
Lead	Pb	ND	ND	ND	ND	0.05			
Magnesium	Mg	4.	4.	2.	5. *	2.			
Manganese	Mn	0.1	0.1	0.07	0.2	0.07			
Molybdenum	Mo	ND	ND	ND	ND	ND			
Niobium	Nb	ND	ND	ND	ND	ND			
Nickel	Ni	0.005	0.007	0.001	0.007	0.001			
Potassium	K	3.	5.	2.	5.	2.			
Silicon	Si	MATRIX	MATRIX	MATRIX	MATRIX	MATRIX			
Silver	Ag	TRACE	TRACE	TRACE	TRACE	TRACE			
Sodium	Na	5.	5.	5.	5.	5.			
Strontium	Sr	0.07	0.07	0.03	0.1	0.05			
Tantalum	Ta	ND	ND	ND	ND	ND			
Thorium	Th	ND	ND	ND	ND	ND			
Tin	Sn	ND	ND	ND	ND	ND			
Titanium	Ti	0.5	0.5	0.5	0.5	0.5			
Tungsten	W	ND	ND	ND	ND	ND			
Uranium	U	ND	ND	ND	ND	ND			
Vanadium	V	0.03	0.03	0.003	0.03	0.005			
Zinc	Zn	ND	ND	ND	ND	0.1			

All results expressed as percentages

MATRIX — Major constituent
 MAJOR — Above normal spectrographic range
 TRACE — Detected but minor amounts
 N.D. — Not detected
 * — Suggest assay

* Duplicate of a portion of #2 sample on next page.

NOTES: Rejects retained one month
 Pulps retained three months.
 On request pulps and rejects will be stored for a maximum of one year.

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L. Wong, Chief Assayer
 SIGNATURE AND TITLE

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER: American Society For Testing Materials • The American Oil Chemists Society • Canadian Testing Association
 REFEREE AND/OR OFFICIAL CHEMISTS FOR: Vancouver Merchants Exchange • National Institute Of Graded Products • The American Oil Chemists Society
 OFFICIAL WEIGHMASTERS FOR: Vancouver Board Of Trade • Vancouver Merchants Exchange



GENERAL TESTING LABORATORIES

DIVISION SUPERINTENDENCE COMPANY (CANADA) LTD.

1001 EAST PENDER STREET VANCOUVER 6 B.C. CANADA
 PHONE (604) 254-1647 TELETYPE 577514 CABLE SUPERWISE

TO:
BETHLEHEM COPPER CORPORATION LTD.
 (Continued) ... page 2 ...

SEMI QUANTITATIVE SPECTROGRAPHIC ANALYSES CERTIFICATE

No.: 7710-0351 DATE: Oct. 13/77

We hereby certify that the following are the results of spectrographic analyses made on: **Pulps**

		1	2	3	4	5	SAMPLE No. DESCRIPTION	
Aluminum	Al	5.	5.				1	120 - 350 ✓ PC-77-2
Antimony	Sb	ND	ND				2	150 - 350 ✓ PC-77-3
Arsenic	As	ND	ND				3	
Barium	Ba	0.03	0.1				4	
Beryllium	Be	ND	ND				5	
Bismuth	Bi	ND	ND					
Boron	B	0.003	0.003					
Cadmium	Cd	ND	ND					
Calcium	Ca	2.	2.					
Chromium	Cr	ND	0.005					
Cobalt	Co	ND	ND					
Copper	Cu	0.003	0.01					
Gallium	Ga	ND	ND					
Gold	Au	TRACE	TRACE					
Iron	Fe	2.	3.					
Lead	Pb	0.01	0.07					
Magnesium	Mg	2.	3.					
Manganese	Mn	0.07	0.1					
Molybdenum	Mo	ND	ND					
Niobium	Nb	ND	ND					
Nickel	Ni	0.001	0.003					
Potassium	K	2.	2.					
Silicon	Si	MATRIX	MATRIX					
Silver	Ag	0.001	0.001					
Sodium	Na	5.	5.					
Strontium	Sr	0.05	0.07					
Tantalum	Ta	ND	ND					
Thorium	Th	ND	ND					
Tin	Sn	ND	ND					
Titanium	Ti	0.5	0.5					
Tungsten	W	ND	ND					
Uranium	U	ND	ND					
Vanadium	V	0.005	0.007					
Zinc	Zn	ND	ND					

120 - 350 ✓ PC-77-2
 150 - 350 ✓ PC-77-3
 3
 4
 5

All results expressed as percentages
 MATRIX — Major constituent
 MAJOR — Above normal spectrographic range
 TRACE — Detected but minor amounts
 N.D. — Not detected
 ★ — Suggest assay

NOTES: Rejects retained one month
 Pulp retained three months
 On request pulps and rejects will be stored for a maximum of one year.

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L. Wong, Chief Assayer
 SIGNATURE AND TITLE



Kamloops Research & Assay Laboratory Ltd.

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4
TELEPHONE 372-2784

Guichon - Assays

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

EA ✓
HGE ✓
REA ✓

CERTIFICATE OF ASSAY

to Bethlehem Copper Corporation,
2100 - 1055 West Hastings St.,
Vancouver, B. C. Attention: Mr. Robin Anderson

Certificate No. K-1424

Date September 23, 1977.

hereby certify that the following are the results of assays made by us upon the herein described composite samples

Kral No.	Marked	GOLD	SILVER	Ni						
		Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	
1	77-1	0 - 50	Tr	.023	Tr					
2		50 - 100	Tr	.016	Tr					
3		100 - 150	.005	.017	Tr					
4		150 - 200	Tr	.017	Tr					
5		200 - 250	.005	.015	Tr					
6	77-1	250-300	.005	.015	Tr					
7	77-2	0 - 50	Tr	.020	Tr					
8		50 - 100	Tr	.026	Tr					
9		100 - 150	Tr	.015	Tr					
10		150 - 200	Tr	.015	Tr					
11		200 - 250	Tr	.015	Tr					
12		250 - 300	.005	.015	Tr					
13	77-2	300 - 350	.01	.012	Tr					
14	77-3	0 - 50	Tr	.038	Tr					
15		50 - 100	Tr	.026	Tr					
16		100 - 150	Tr	.020	Tr					
17		150 - 200	Tr	.023	Tr					
18		200 - 250	.01	.023	Tr					
19	77-3	250 - 300	Tr	.029	Tr					

NOTE: Tr denotes "trace" c.c. Mr. Jon Collins

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

David J. P. B.
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4
TELEPHONE 272-2784

Guidance - Assays

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

HGE ✓
REA ✓
EAL ✓

CERTIFICATE OF ASSAY

to Bethlehem Copper Corporation,
2100 - 1055 West Hastings St.,
Vancouver, B. C. V6E 2H8

Certificate No. K-1389

Date August 26, 1977.

hereby certify that the following are the results of assays made by us upon the herein described percussion drill samples

Kral No.	Marked	GOLD	SILVER	Cu	Pb	Zn				
		Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
	P.C. Stud 77-3 Feet									
1	5 - 10			.0053	.0051	.0086				
2	10 - 20			.0063	.0053	.0100				
3	20 - 30			.0058	.0043	.0075				
4	30 - 40			.0051	.0049	.0090				
5	40 - 50			.0060	.0040	.0092				
6	50 - 60			.0048	.0040	.0095				
7	60 - 70			.0051	.0038	.0091				
8	70 - 80			.0052	.0047	.0090				
9	80 - 90			.0051	.0048	.0091				
10	90 - 100			.0047	.0044	.0090				
11	100 - 110			.0046	.0040	.0091				
12	110 - 120			.0043	.0040	.0096				
13	120 - 130			.0057	.0049	.0109				
14	130 - 140			.0074	.0044	.0121				
15	140 - 150			.0062	.0045	.0113				
16	150 - 160			.0049	.0040	.0080				
17	160 - 170			.0056	.0040	.0085				
18	170 - 180			.0043	.0042	.0086				
19	180 - 190			.0055	.0041	.0098				
20	190 - 200			.0058	.0041	.0116				

NOTE:

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

Jan F. Papp

Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4
TELEPHONE 372-2784

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

2

CERTIFICATE OF ASSAY

to Bethlehem Copper Corporation

Certificate No. K-1389

Date August 26, 1977.

hereby certify that the following are the results of assays made by us upon the herein described percussion drill samples

Kral No.	Marked P.C. Stud 77-3 Feet	GOLD	SILVER	Cu	Pb	Zn				
		Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
21	200 - 210			.0049	.0046	.0088				
22	210 - 220			.0058	.0043	.0100				
23	220 - 230			.0057	.0041	.0084				
24	230 - 240			.0057	.0040	.0082				
25	240 - 250			.0048	.0036	.0103				
26	250 - 260			.0049	.0042	.0096				
27	260 - 270			.0054	.0040	.0095				
28	270 - 280			.0051	.0037	.0097				
29	280 - 290			.0052	.0042	.0096				
30	290 - 300			.0050	.0045	.0090				
31	300 - 310			.0046	.0039	.0088				
32	310 - 320			.0044	.0045	.0089				
33	320 - 330			.0046	.0040	.0086				
34	330 - 340			.0048	.0039	.0087				
35	340 - 350			.0061	.0041	.0091				

NOTE:

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

D. J. R. S.
.....
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4
TELEPHONE 312-2784

Gardner - Assays

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

EA ✓
HGE ✓
REAL ✓
RSN

CERTIFICATE OF ASSAY

to Bethlehem Copper Corporation,
2100 - 1055 West Hastings Street,
Vancouver, B. C. V6E 2H8

Certificate No. K-1374

Date August 18, 1977.

we hereby certify that the following are the results of assays made by us upon the herein described percussion drill samples

Kral No.	Marked	GOLD	SILVER	Cu	Pb	Zn				
		Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
1	77-1			.0015	.0043	.013				
2		10-20		.0014	.0030	.0063				
3		20-30		.0016	.0045	.008				
4		30-40		.0009	.0033	.0075				
5		40-50		.0006	.0033	.0069				
6		50-60		.0008	.0053	.0054				
7		60-70		.0010	.0041	.0070				
8		70-80		.0008	.0035	.0064				
9		80-90		.0005	.0029	.0066				
10		90-100		.0005	.0033	.0060				
11		100-110		.0007	.0022	.0061				
12	PC Stud 77-1	110-120		.0004	.0025	.0060				
13		120-130		.0003	.0022	.0050				
14		130-140		.0006	.0022	.0052				
15		140-150		.0007	.0024	.0053				
16		150-160		.0005	.0025	.0060				
17		160-170		.0005	.0024	.0058				
18		170-180		.0004	.0036	.0060				
19		180-190		.0004	.0022	.0060				
20		190-200		.0007	.0039	.0063				

NOTE:

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

SAS for RSN
.....
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

WEST TRANS CANADA HIGHWAY - BOX 940 - KAMLOOPS, B.C. V2C 5N4
TELEPHONE 372-2784

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

2.

CERTIFICATE OF ASSAY

to Bethlehem Copper Corporation

Certificate No. K-1374
Date August 18, 1977.

hereby certify that the following are the results of assays made by us upon the herein described percussion drill samples

Kral No.	Marked	GOLD	SILVER	Cu	Pb	Zn				
		Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
21	220-230			.0007	.0039	.0073				
22	230-240			.0006	.0035	.0066				
23	240-250			.0006	.0038	.0059				
24	250-260			.0007	.0020	.0062				
25	260-270			.0005	.0034	.0073				
26	270-280			.0006	.0020	.0056				
27	280-290			.0008	.0030	.0075				
28	290-300			.0009	.0068	.012				
29	PC Stud 77-2 10- 20			.0013	.0045	.012				
30	20- 30			.0013	.0021	.017				
31	30- 40			.0018	.0022	.036				
32	40- 50			.0028	.0169	.011				
33	50- 60			.0023	.0005	.011				
34	60- 70			.0014	.0010	.013				
35	70- 80			.0016	.0026	.031				
36	80- 90			.0025	.0240	.82				
37	90-100			.0025	.0356	.50				
38	100-110			.0030	.0166	.24				
39	110-120			.0019	.0093	.124				
40	120-130			.0012	.0066	.117				

NOTE:

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

D. B. J. (Signature)
Registered Assayer, Province of British Columbia



Kamloops Research & Assay Laboratory Ltd.

WEST TRANS CANADA HIGHWAY - BOX 946 - KAMLOOPS, B.C. V2C 5N4
TELEPHONE 372-2784

B.C. LICENSED ASSAYERS
GEOCHEMICAL ANALYSTS

3

CERTIFICATE OF ASSAY

TO Bethlehem Copper Corporation

Certificate No. K-1374

Date August 18, 1977.

we hereby certify that the following are the results of assays made by us upon the herein described percussion drill samples

Kral No.	Marked	GOLD	SILVER	Cu	Pb	Zn				
		Ounces Per Ton	Ounces Per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
	PC Stud 77-2									
41	130-140			.0015	.0057	.078				
42	140-150			.0010	.0018	.040				
43	150-160			.0006	.0040	.058				
44	160-170			.0008	.0022	.035				
45	170-180			.0005	.0016	.032				
46	180-190			.0010	.0026	.026				
47	190-200			.0008	.0017	.031				
48	200-210			.0007	.0054	.029				
49	210-220			.0005	.0014	.020				
50	220-230			.0004	.0017	.027				
51	230-240			.0005	.0022	.043				
52	240-250			.0010	.0024	.041				
53	250-260			.0004	.0025	.043				
54	260-270			.0010	.0015	.039				
55	270-280			.0012	.0015	.031				
56	280-290			.0014	.0017	.033				
57	290-300			.0005	.0020	.034				
58	300-310			.0004	.0117	.077				
59	310-320			.0013	.0053	.081				
60	320-330			.0017	.0047	.066				
61	330-340			.0012	.0029	.036				
62	340-350			.0010	.0020	.024				

NOTE:

Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

Sas for P&S
.....
Registered Assayer, Province of British Columbia

SECTION F -BETHLEHEM COOPER CORPORATIONMINERAL CLAIMSProperty: GULCHONMining Division: Kunloops

<u>Name of Claim</u>	<u>Record Number</u>	<u>Metal Tag Number</u>	<u>Date Recorded</u>	<u>Expiry Date</u>
STUD 1 (20 units)	700 (2) \$2,000 Annual Work;	03609 \$200 Annual Rental.	28 February, 1977 Rental paid to 1978.	28 Feb. 78
STUD 2 (20 units)	701 (2) \$2,000 Annual Work;	03625 \$200 Annual Rental.	28 February, 1977 Rental paid to 1978.	28 Feb. 78
STUD 3 (12 units)	702 (2) \$1,200 Annual Work;	03626 \$120 Annual Rental.	28 February, 1977 Rental paid to 1978.	28 Feb. 78
STUD 4 (20 units)	703 (2) \$2,000 Annual Work;	03627 \$200 Annual Rental.	28 February, 1977 Rental paid to 1978.	28 Feb. 78
STUD 5 (20 units)	704 (2) \$2,000 Annual Work;	03628 \$200 Annual Rental.	28 February, 1977 Rental paid to 1978.	28 Feb. 78
STUD 6 (20 units)	705 (2) \$2,000 Annual Work;	03629 \$200 Annual Rental.	28 February, 1977. Rental paid to 1978.	28 Feb. 78
STUD 7 (20 units)	706 (2) \$2,000 Annual Work;	03692 \$200 Annual Rental.	28 February, 1977. Rental paid to 1978.	28 Feb. 78
ZOOKS (20 units)	828 (5) \$2,000 Annual Work;	26471 \$200 Annual Rental.	25 May, 1977 Rental paid to 1978.	25 May, 1978
GAD (12 units)	829 (5) \$1,200 Annual Work;	26472 \$120 Annual Rental.	25 May, 1977 Rental paid to 1978.	25 May, 1978
ZEEKS (12 units)	830 (5) \$1,200 Annual Work;	26473 \$120 Annual Rental.	25 May, 1977 Rental paid to 1978.	25 May, 1978
STUD 8 (20 units)	888 (6) \$2,000 Annual Work;	06816 \$200 Annual Rental.	22 June, 1977 Rental paid to 1978.	22 June, 1978
STUD 9 (20 units)	889 (6) \$2,000 Annual Work;	06817 \$200 Annual Rental.	22 June, 1977 Rental paid to 1978.	22 June, 1978
STUD 10 (20 units)	890 (6) \$2,000 Annual Work;	06818 \$200 Annual Rental.	22 June, 1977 Rental paid to 1978.	22 June, 1978
STUD 11 (20 units).	891 (6) \$2,000 Annual Work;	06819 \$200 Annual Rental.	22 June, 1977 Rental paid to 1978.	22 June, 1978
STUD 12 (10 units)	1067 (10) \$1,000 Annual Work;	06845 \$100 Annual Rental.	21 Oct. 1977 Rental paid to 1978.	21 Oct., 1978