

**PETER E. WALCOTT
& ASSOCIATES LTD**

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORTS

DATE RECEIVED

JUL 23 1996

A GEOPHYSICAL REPORT

ON

INDUCED POLARIZATION SURVEYING

Getty Property, Highland Valley Area, B.C.
50° 33' N, 121° W
N.T.S. 92 I/10W & 11E

Survey Dates: June 23rd - September 30th, 1995

Operator: GETTY COPPER CORPORATION

Owners: Getty Copper Corp.
Robak Industries Ltd.
Coquitlam, B.C.

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

BY

24,476

PETER E. WALCOTT & ASSOCIATES LIMITED
Vancouver, British Columbia
May 1996

FILMED

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TABLE OF CONTENTS.

	Page
INTRODUCTION	1
PROPERTY, LOCATION & ACCESS	2
PREVIOUS WORK	4
GEOLOGY	5
PURPOSE	6
SURVEY SPECIFICATIONS	7
DISCUSSION OF RESULTS	9
SUMMARY, CONCLUSIONS & RECOMMENDATIONS	11
 <u>APPENDIX</u>	
COST OF SURVEY	i
PERSONNEL EMPLOYED ON SURVEY	ii
CERTIFICATION	iv
CLAIM & GRID LOCATION MAP 1:000,000	
I.P. PSEUDOSECTIONS	
1. 21 POINT FILTER CHARGEABILITY MAP 1:20,000	
2. 21 POINT FILTER RESISTIVITY MAP 1:20,000	
3. GEOLOGY MAP - HIGHLAND VALLEY AREA 1:100,000	
<u>ACCOMPANYING MAPS - SCALE 1:2500</u>	<u>MAP POCKET</u>
SELF POTENTIAL GRADIENTS	
CONTOURS OF APPARENT CHARGEABILITY a=100m 21 point filter	W-535-1
CONTOURS OF APPARENT RESISTIVITY a=100m 21 point filter	W-535-2

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- 1 -

INTRODUCTION.

Between June 23rd and September 30th, 1995, Peter E. Walcott & Associates Limited undertook limited induced polarization (I.P.) surveying over a part of a large property, located in the Highland Valley area of British Columbia, for Getty Copper Corp..

The property, known as the Getty Property, is situated on the north end of the Guichon Creek batholith, the large multiphase batholith that hosts the well known Highland Valley copper-molybdenum deposits, and encompasses the known Getty North and Getty South deposits.

The survey was carried out over east-west trending lines that were established at approximately 300 metre intervals from a north-south trending baseline and brushed out for ease of passage by personnel from Peter E. Walcott & Associates. Additional lines at closer spaced intervals were put in over the above named mineral occurrence.

Measurements (first to sixth separation) of apparent chargeability (the I.P. response parameter) and resistivity were made every 100 metres along the lines using the pole-dipole method of surveying with a 100 metre dipole.

The progress of the survey was severely hampered by the inclement weather - it rained every day in July and August -, the rough topography in places and by the large population of summer grazing cattle who chewed and broke the lead in wire at will.

The I.P. data is presented in contour form on individual pseudosections bound in this report. In addition the 21 point filter chargeability and resistivity contour plots are shown on the plan maps of the line grid on maps W-535-1 & 2 that accompany this report.

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- 2 -

PROPERTY, LOCATION & ACCESS.

The property is located in the Kamloops Mining Division of British Columbia and consists of the following claims:

CLAIM NAME	UNITS	RECORD #	ANNIVERSARY
Getty 1 -4	4	221561-64	August 6th
Getty 5 - 22	18	221565-82	August 16th
Getty .A. Fr.	1	221585	August 16th
Getty 23 -24	2	221583-84	August 16th
Getty 26	8	218221	January 7th
Getty 27 - 29	3	218222-24	January 5th
Getty 30 -36	6	218225-31	January 6th
Getty 37 - 38	2	218232-33	January 7th
Getty 39 - 44	6	218430-35	May 13th
Getty 45 - 47	3	218436-218438	May 15th
Getty 48	8	218439	May 17th
Getty 49 -52	4	218440-218443	May 16th
Getty 53	1	218444	May 17th
Getty 54 - 60	10	218445-51	May 19th
Getty 61 - 67 F	23	218489-95	June 6th
Getty 68 - 71	4	218496-99	June 7th
Getty 72-74	3	218500-02	June 8th
Getty 75Fr- 77Fr	3	218503-05	June 8th
Getty 78Fr-79Fr	2	218506-07	June 9th
Getty 80 - 81	2	218508-09	June 10th
Getty 82Fr-83Fr	2	218510-11	June 10th
Getty 85 -87	3	218513-15	June 11th
Getty 88 -90	4	218522-24	June 11th
Getty 91-92	2	218557-58	July 1
Getty 93	20	318212	June 16th
Getty 94	5	318213	June 17th
GTY 1	20	322034	October 18th
GTY 2	15	322035	October 17th
GTY 3	3	322036	October 16th
Bram 1	20	332394	October 29th
Bram 2	20	322395	November 8th

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- 3 -

PROPERTY, LOCATION & ACCESS.

CROWN GRANTS	UNITS	LOT #
A.J. #3	1	5483
A.J. #4	1	5421
A.J. #5	1	5619
A.J. #6	1	5620
A.J. #7	1	5617
A.J. #8	1	5618
A.J. #1 Fr.	1	5602
Bill #1	1	5601
Bill #2	1	5603
Bill #3	1	5603
Bill #4	1	5604
Bill #5	1	5605
Bill #6	1	5606
Bill #7	1	5607
Bill #8	1	5608
Bill #9	1	5609
Bill #10	1	5610
Bill #11	1	5611
Bill #12	1	5612
Bill #13	1	5613
Bill #14	1	5614
Bill #15	1	5615
Bill #16	1	5616

The claims are situated on and around Forge Mountain between 1450 and 1900 metre elevations, some 5 kilometres north of the currently operating Highland Valley Copper mine.

Access was obtained from the town of Logan Lake via Highway 97C to the Highland Valley Mine lookout, and thence along the Bethlehem Mine road and the Bose Lake forestry access road.

PREVIOUS WORK.

Work has been carried out on the property and surrounding areas since 1887. Since 1956 a series of owners/operators have carried out surface trenching, surface and underground diamond drilling , percussion drilling, shaft sinking, induced polarization and magnetic surveys etc. For further details the reader is referred to paper and reports by Casselman et al (C.I.M., Special Volume 46), and S. Gower, P.Geo. for Robak Industries.

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- 5 -

GEOLOGY.

The reader is referred to the forementioned reports and to other published literature of the Highland Valley in particular works by Dr's Northcote and McMillan.

Basically the property is underlain by quartz diorite of the Guichon phase, overlain on the east and northwest by a pile of Tertiary volcanic rocks.

Mineralization at Getty North is related to a small younger Bethlehem quartz diorite stock that intrudes the Guichon rocks. The main body of 0.3 to 0.7% total copper occurs near the contact between the Bethlehem and the Guichon and around the occurrence of strong fracturing. An oxide cap with higher overall grades up to 100 metres thick has been preserved beneath the above mentioned post-mineral volcanics.

Mineralization on the Getty South some three kilometres to the south is hosted in a large intrusion breccia that cuts the Guichon quartz diorite.

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-6 -

PURPOSE.

The purpose of the survey was to redefine the I.P. signatures of the Getty North and South deposits to aid in additional exploration drilling, and to search for other occurrences of low overall sulphides in the areas of favourable geology.

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- 7 -

SURVEY SPECIFICATIONS.

The induced polarization (I.P.) survey was conducted using a pulse type system, the principal components of which are manufactured by Hunttec Limited of Metropolitan Toronto, Ontario, and Iris Instruments of Orleans, France.

The system consists basically of three units, a receiver (Iris), a transmitter and a motor generator (Hunttec). The transmitter, which provided a maximum of 7.5kw d.c. to the ground, obtains its power from a 7.5 kw 400 c.p.s. three phase alternator driven by a gasoline engine. The cycling rate of the transmitter is 2 seconds "current-on" and 2 seconds "current-off" with the pulses reversing continuously in polarity. The data recorded in the field consists of careful measurements of the current (I) in amperes flowing through the current electrodes C_1 and C_2 , the primary voltages (V) appearing between any two potential electrodes, P_1 through P_7 , during the "current-on" part of the cycle, and the apparent chargeability, (M_a) presented as a direct readout in millivolts per volt using a 100 millisecond delay and a 1000 millisecond sample window by the receiver, a digital receiver controlled by a micro-processor - the sample window is actually the total of ten individual windows of 100 millisecond widths.

The apparent resistivity (ρ_a) in ohm metres is proportional to the ratio of the primary voltage and the measured current, the proportionality factor depending on the geometry of the array used. The chargeability and resistivity are called apparent as they are values which that portion of the earth sampled would have if it were homogeneous. As the earth sampled is usually inhomogeneous the calculated apparent chargeability and resistivity are functions of the actual chargeability and resistivity of the rocks.

The survey was carried out using the "pole-dipole" method of surveying. In this method the current electrode, C_1 , and the potential electrodes, P_1 through P_7 , are moved in unison along the survey lines at a spacing of "a" (the dipole) apart, while the second current electrode, C_2 , is kept constant at "infinity". The distance, "na" between C_1 and the nearest potential electrode generally controls the depth to be explored by the particular separation, "n", traverse.

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-8-

SURVEY SPECIFICATIONS.

On this survey a 100 metre dipole was employed and first to sixth separation readings were obtained.

In all some 126.2 kilometres of line were established, and some 119.6 kilometres of I.P. traversing were completed using the above method.

DISCUSSION OF RESULTS.

The chargeability results show the area surveyed to exhibit a low chargeability background - circa 3 millivolts/volt - above which four zones exhibiting moderate to high increases in chargeability are clearly discernable on Map W-535-1, the contour plot of the 21 point filter chargeability measurements.

The largest and strongest of the zones, as outlined by the four millivolt/volt contour, is some 1300 metres by 1300 metres in size, encompasses the Getty North deposit, and is undefined to the south.

The higher values of this zone are attributable to a strong dipole of high chargeability readings around 2000E on Lines 3600N, 3750N and 3875N attributable to the pyrrhotite halo on the east flank of the deposit, as can be seen from the respective pseudosections.

To the south on Lines 3450N to 2900N perusal of the respective pseudosections show the chargeability response decreasing but greater on the larger separations suggesting a buried causative source.

The response also decreases in magnitude to the north on Lines 4000N, 4250N and 4550N respectively where it elongates to the east. Again it is mostly observed on the larger separations.

The zone appears to coalesce with another zone of similar size though somewhat elongated northwest occurring on the west side of the property and extending onto the Globe Resources property to the south.

This zone exhibits similar chargeability values but lower resistivity values than the former suggesting its causative source to be beneath or in the Tertiary volcanic pile.

It should be mentioned here that the lower resistivity values - 200 or less - as seen on Map W 535-2, the contour plan of the 21 point filter resistivity values, correlate well with the known extent of volcanics, while the high values suggest underlying plutonic rocks.

DISCUSSION OF RESULTS.

The Getty South mineralization is reflected by the 900 x 900 metre zone centred on Line 500N on the southern extent of the area surveyed as seen on Map W-535-1.

It is a complex zone of 1.5 to 2 times background chargeabilities as would be expected from the pattern of the mineralized occurrences. It exhibits resistivities in the low 200's, and is bounded on the east on the southern line by a well defined resistivity contrast.

The fourth zone - some 1000 x 400 metres on Map W 535-1 occurs one kilometre north of Getty North zone. It is dominated by a shallow .pant-leg. response on Line 4770N, similar but with diminished intensity to those of Lines 3070N and 3750N.

SUMMARY, CONCLUSIONS & RECOMMENDATIONS.

Between June 23rd and September 30th, 1995, Peter E. Walcott & Associates Limited undertook a line cutting and I.P. survey programme over part of the Getty Copper property, located in the Highland Valley area of British Columbia, for Getty Copper Corp.

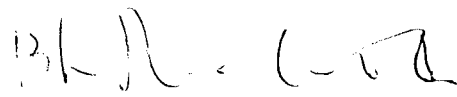
Four anomalous chargeability zones were observed in the area survey, two exhibiting mostly moderate response and two low to moderate responses.

Two of these zones were the expression and extensions of the known Getty North and Getty South mineralized deposits.

As a result the writer recommends that (1) the results be studied in conjunction with the geology, drilling results to date and the remote sensing analysis to further understand the significance of the anomalous zones and (2) that testing for the extensions of the Getty North mineralization by borehole techniques be carried out on Lines 3325N to 2900N.

Respectfully submitted,

PETER E. WALCOTT & ASSOCIATES LIMITED


Peter E. Walcott, P.Eng.
Geophysicist

Vancouver, B.C.

May 1996

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APPENDIX

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- i -

COST OF SURVEY.

Peter E. Walcott & Associates Limited undertook the survey on a contract basis. The total cost of services provided was as follows (GST included)

1.	Line cutting 126.2km at \$655.00 per km	\$82,661.00
2.	I.P. survey 119.6 kms at \$1,390.00 per km	¹⁶⁶ \$18,244.00 166,244.00 (3)
3.	Reporting including presentation	<u>\$3,210.00</u>
	Total cost (Inclusive of GST)	<u>\$252,115.00</u> =====

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- ii -

PERSONNEL EMPLOYED ON SURVEY

NAME	OCCUPATION	ADDRESS	DATES
Peter E. Walcott	Geophysicist	Peter E. Walcott & Associates Ltd. 605 Rutland Court, Coquitlam, B.C.	June 23 - 25th, 29th, July 12-14th, 18, 19 August 12-18th, Sept 2-8th, Nov. 5-8th, 1995 Jan 7th - 12th, May 7th-10th, 1996
A. Walcott	Geophysical Operator	Peter E. Walcott & Associates Ltd. 605 Rutland Court, Coquitlam, B.C.	June 29th - July 5th, Nov 12-30th, 1995
C. Marchildon	Geophysical Operator	Peter E. Walcott & Associates Ltd. 605 Rutland Court, Coquitlam, B.C.	June 30th - Sept 30th, 1995
D. Hewitt	Geophysical Operator	Peter E. Walcott & Associates Ltd. 605 Rutland Court, Coquitlam, B.C.	June 24th - Sept 30th, 1995
R. Leamont	Geophysical Operator	Peter E. Walcott & Associates Ltd. 605 Rutland Court, Coquitlam, B.C.	June 23rd - July 2nd, 1996
R. Grummish	Geophysical Operator	Peter E. Walcott & Associates Ltd. 605 Rutland Court, Coquitlam, B.C.	June 23rd - July 5th, 1996
S. Lehman	Geophysical Operator	Peter E. Walcott & Associates Ltd. 605 Rutland Court, Coquitlam, B.C.	June 24th, Aug 3rd, 7th - 12th, Sept 1st - Sept 29th, 1996
P. Sly	Geophysical Helper	Peter E. Walcott & Associates Ltd. 605 Rutland Court, Coquitlam, B.C.	June 30th - Aug 30th, 1995

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NAME	OCCUPATION	ADDRESS	DATES
M. Eperis	Geophysical Helper	Peter E. Walcott & Associates Ltd. 605 Rutland Court, Coquitlam, B.C.	June 30th - August 25th, Sept 3rd - 29th, 1995
R. James	Geophysical Helper	Peter E. Walcott & Associates Ltd. 605 Rutland Court, Coquitlam, B.C.	July 16th - Aug 30th, 1995
D. MacDougal	Geophysical Helper	Peter E. Walcott & Associates Ltd. 605 Rutland Court, Coquitlam, B.C.	Aug 30th - Sept 30th, 1995
R. Nuisker	Geophysical Helper	Peter E. Walcott & Associates Ltd. 605 Rutland Court, Coquitlam, B.C.	July 2nd - Aug 12th, Sept 6th - 30th, 1995
R. Ninaus	Geophysical Helper	Peter E. Walcott & Associates Ltd. 605 Rutland Court, Coquitlam, B.C.	June 30th - July 15th, Aug 1st - 25th, 1995
R. Tilley	Geophysical Helper	Peter E. Walcott & Associates Ltd. 605 Rutland Court, Coquitlam, B.C.	June 24th - Aug 3rd, Aug 7th - Sept 1st, 1995
J. MacDonald	Geophysical Helper	Peter E. Walcott & Associates Ltd. 605 Rutland Court, Coquitlam, B.C.	Sept 13th - 29th, 1996
K. Walcott	Typing	Peter E. Walcott & Associates Ltd. 605 Rutland Court, Coquitlam, B.C.	May 29th, 1996


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- iv -

CERTIFICATION.

I, Peter E. Walcott, of the City of Coquitlam, British Columbia, hereby certify that:

1. I am a graduate of the University of Toronto in 1962 with a B.A.Sc in Engineering Physics, Geophysics Option.
2. I have been practising my profession for the last thirty four years.
3. I am a member of the Association of Professional Engineers of British Columbia and Ontario.



Peter E. Walcott, P.Eng.

Vancouver B.C.

May 1996





THE HIGHLAND VALLEY COPPER DISTRICT BRITISH COLUMBIA














FROM 1978 MINISTRY OF MINES & PETROLEUM RESOURCES MAP
SCALE 1 : 100,000

ABRIDGED LEGEND

KAMLOOPS GROUP*






-  ARLINGTON VOLCANIC AND INTRUSIVE ROCKS BIOTITE QUARTZ
PLAGIOCLASE PORPHYRY; INTRUSIVE AND EXTRUSIVE BRECCIA
-  STOCKS AND ASSOCIATED FLOWS OF BIOTITE HORNBLENDE
PLAGIOCLASE PORPHYRY
-  VOLCANIC PEBBLE CONGLOMERATE, SANDSTONE, MUDSTONE,
MINOR AMOUNTS OF DIATOMITE, AND SCATTERED LAVA FLOWS
-  PREDOMINANTLY INTERMEDIATE, SOME ACID AND BASIC LAVA
FLOWS; MINOR TUFFS AND VOLCANIC BRECCIAS

GUICHON CREEK BATHOLITH

-  BETHSAIDA PHASE - QUARTZ MONZONITE TO GRANODIORITE
AND SLIGHTLY YOUNGER (?) PORPHYRY DYKES AND PLUGS
-  SKEENA VARIETY - GRANODIORITE, INTERMEDIATE IN
COMPOSITION AND TEXTURE BETWEEN BETHLEHEM AND
BETHSAIDA PHASES
-  BETHLEHEM PHASE - GRANODIORITE AND SLIGHTLY YOUNGER
PORPHYRY DYKES AND PLUGS
-  BRECCIA BODIES OF EXPLOSIVE ORIGIN
-  ROCKS WITH TEXTURES AND COMPOSITIONS TRAN-
SITIONAL BETWEEN HIGHLAND VALLEY AND BETHLEHEM
PHASES OR AREAS WITH SWARMS OF BETHLEHEM PHASE
DYKES IN HIGHLAND VALLEY PHASE
- HIGHLAND VALLEY PHASE**
-  CHATAWAY VARIETY - GRANODIORITE
-  GRANODIORITES WITH TEXTURES AND COMPOSITIONS
TRANSITIONAL BETWEEN GUICHON AND CHATAWAY
VARIETIES
-  GUICHON VARIETY - GRANODIORITE, INCLUDES AREAS
OF FINER GRAINED GRANODIORITE NEAR CHATAWAY
LAKE WHICH HAVE TEXTURES AND COMPOSITIONS LIKE
THOSE OF NORMAL GUICHON VARIETY
-  GRANODIORITE TO QUARTZ DIORITE WITH TEXTURES
AND COMPOSITIONS TRANSITIONAL BETWEEN BORDER
AND HIGHLAND VALLEY PHASES
-  **BORDER PHASE - QUARTZ DIORITE TO GRANODIORITE**
-  DIORITE TO QUARTZ DIORITE WITH COMPOSITIONS AND
TEXTURES TRANSITIONAL BETWEEN NICOLA GROUP
ROCKS AND BORDER PHASE QUARTZ DIORITE

SYMBOLS







GEOLOGICAL

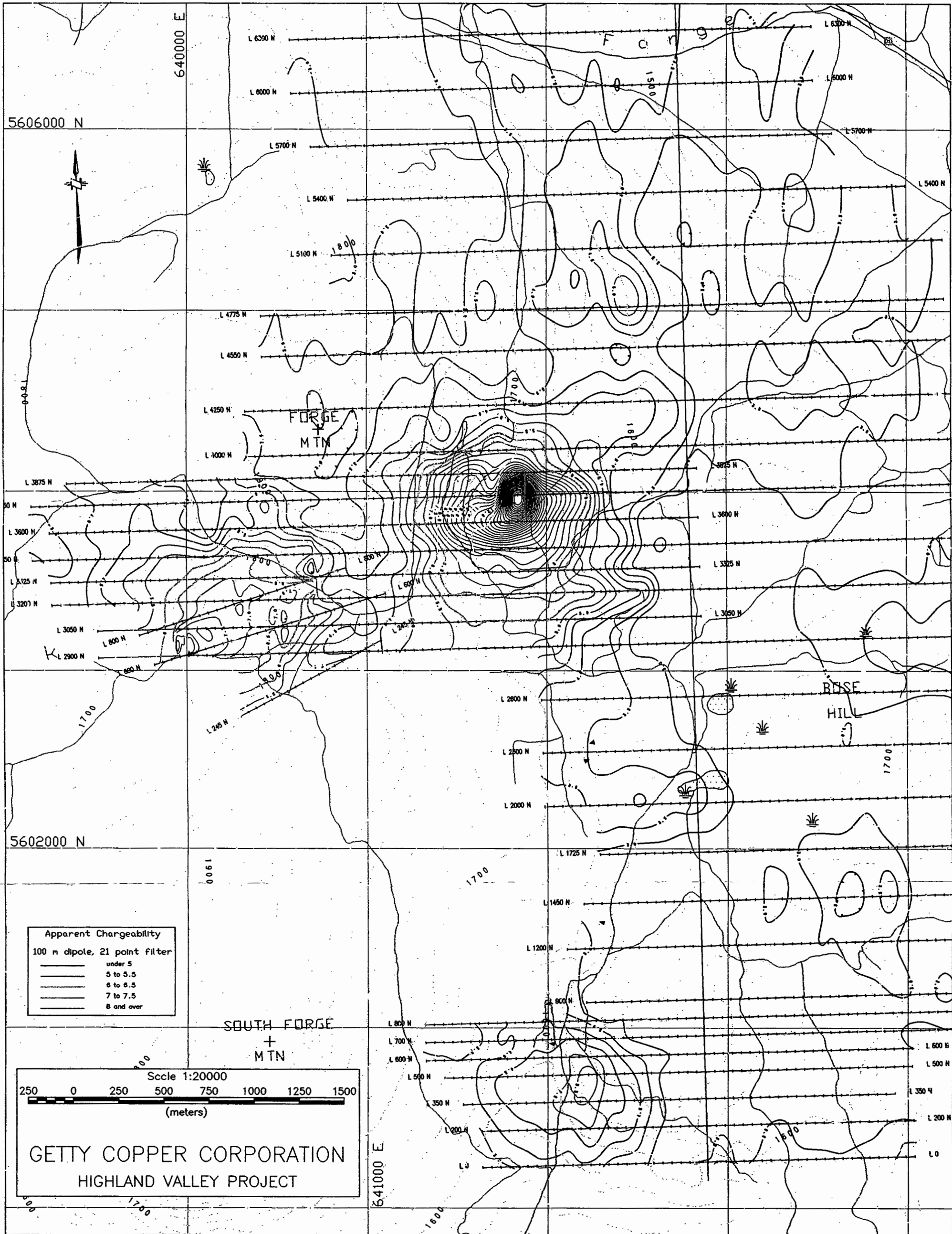
- OUTCROP 
- GEOLOGICAL CONTACT 
- FAULT 
- DYKE 
- DYKE SWARM AREA 
- ORE OUTLINE 

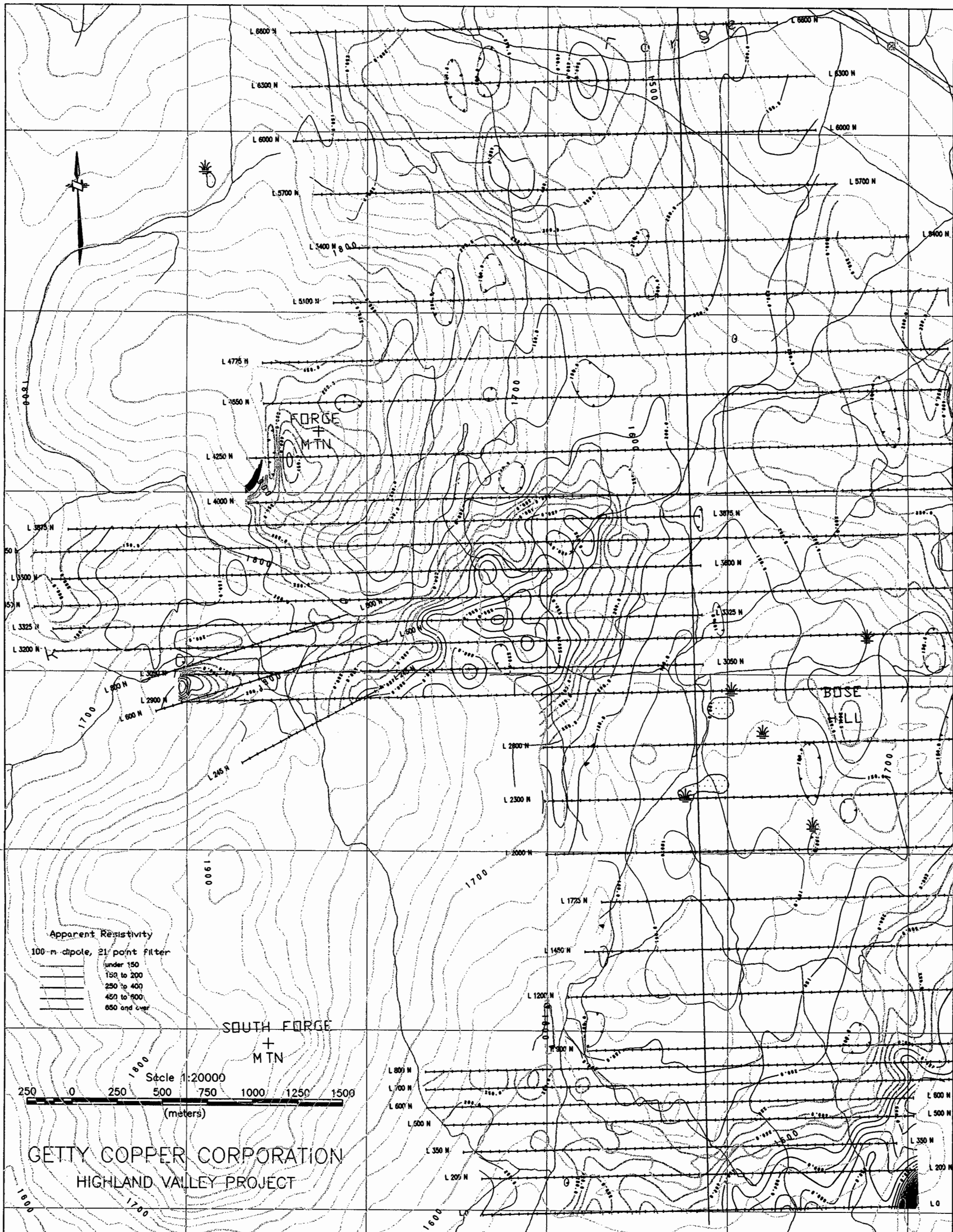
WORKINGS

- OPEN PIT 
- MINE DUMP 
- SHAFT 
- ADIT 
- TRENCH 

GEOGRAPHICAL

- HIGHWAY 
- TWO-WHEEL-DRIVE VEHICLE ROAD 
- FOUR-WHEEL-DRIVE VEHICLE ROAD 
- TRAIL OR OVERGROWN ROAD 
- POWERLINE 
- CONTOUR, INTERVAL 250 FEET 

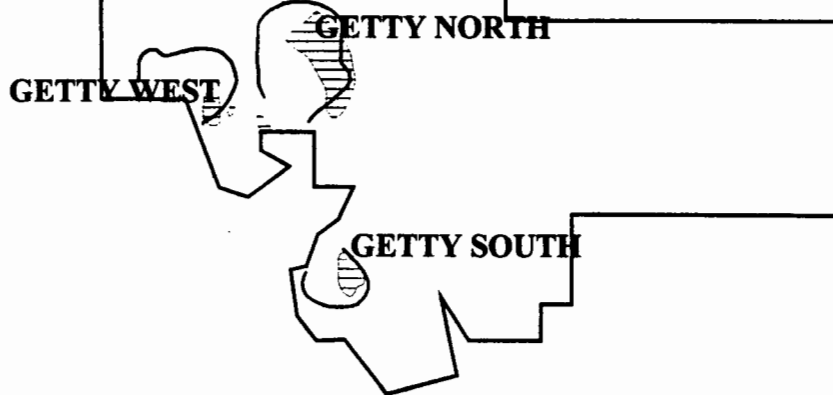




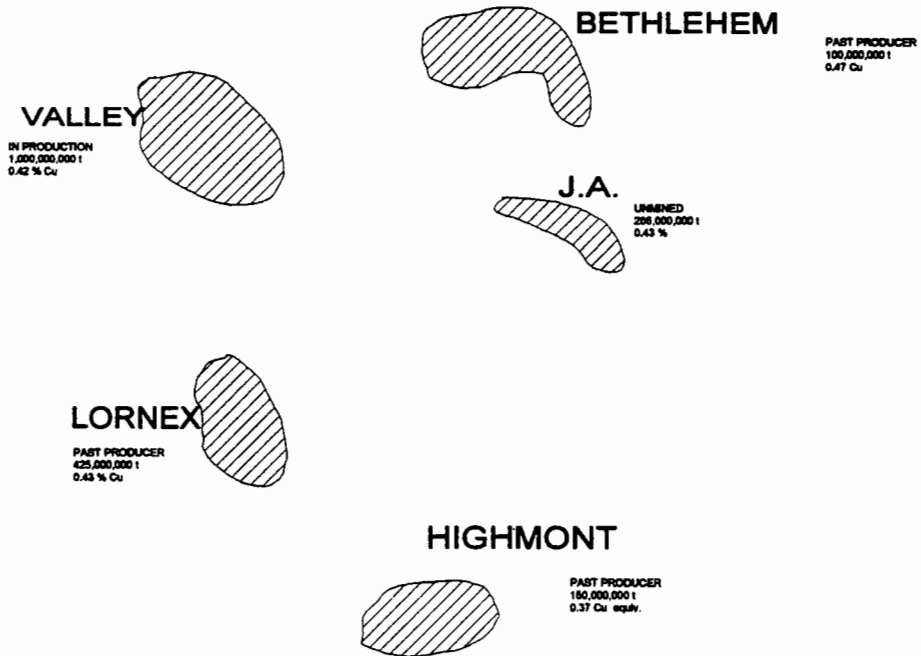
Map created by: Peter E. Walcott & Associates Limited

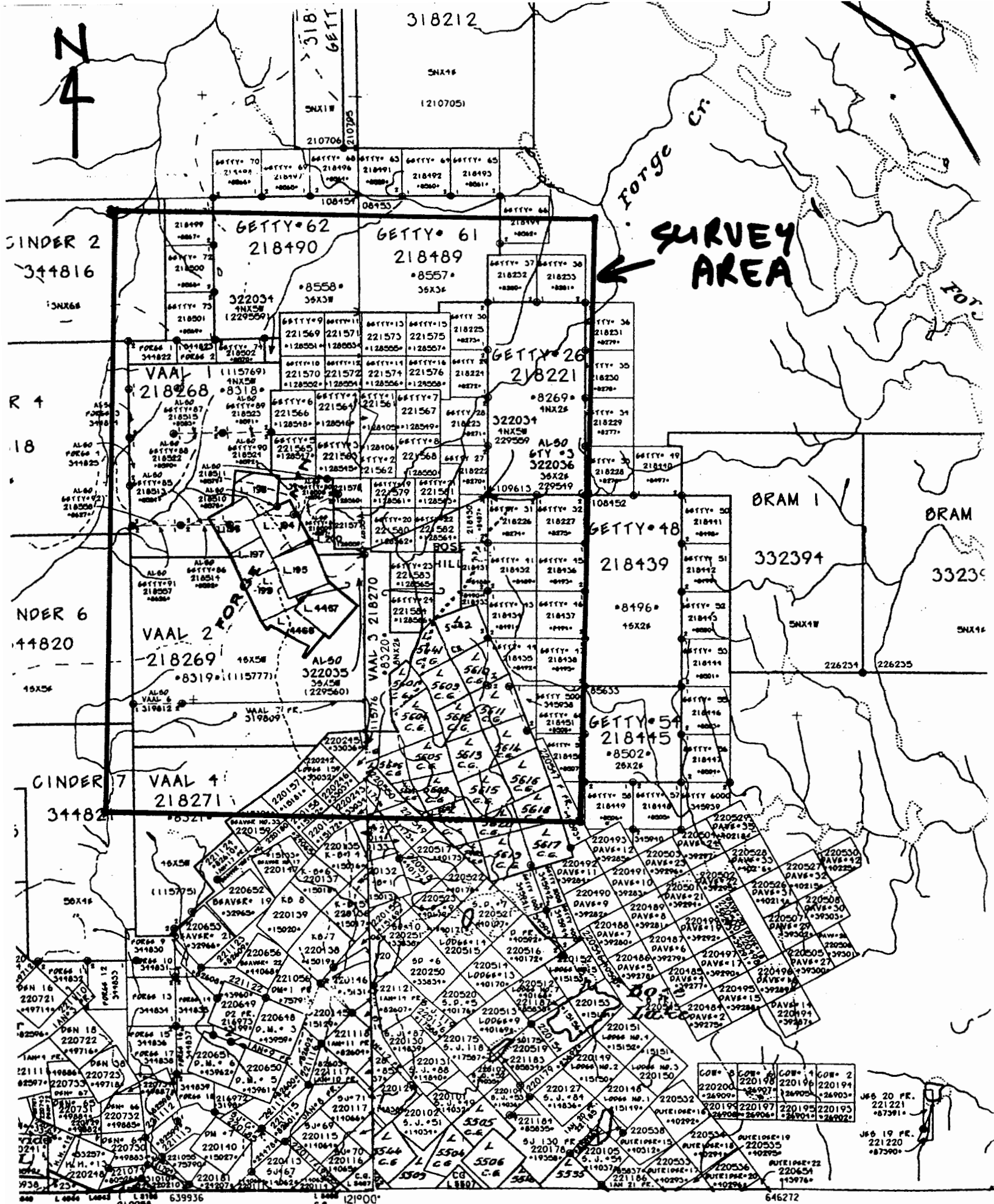
— OUTLINE OF COPPER ZONE- REPORT BY S. GOWER P. GEO
— OUTLINE OF INDUCED POLARIZATION ANOMALY

121° 00' W



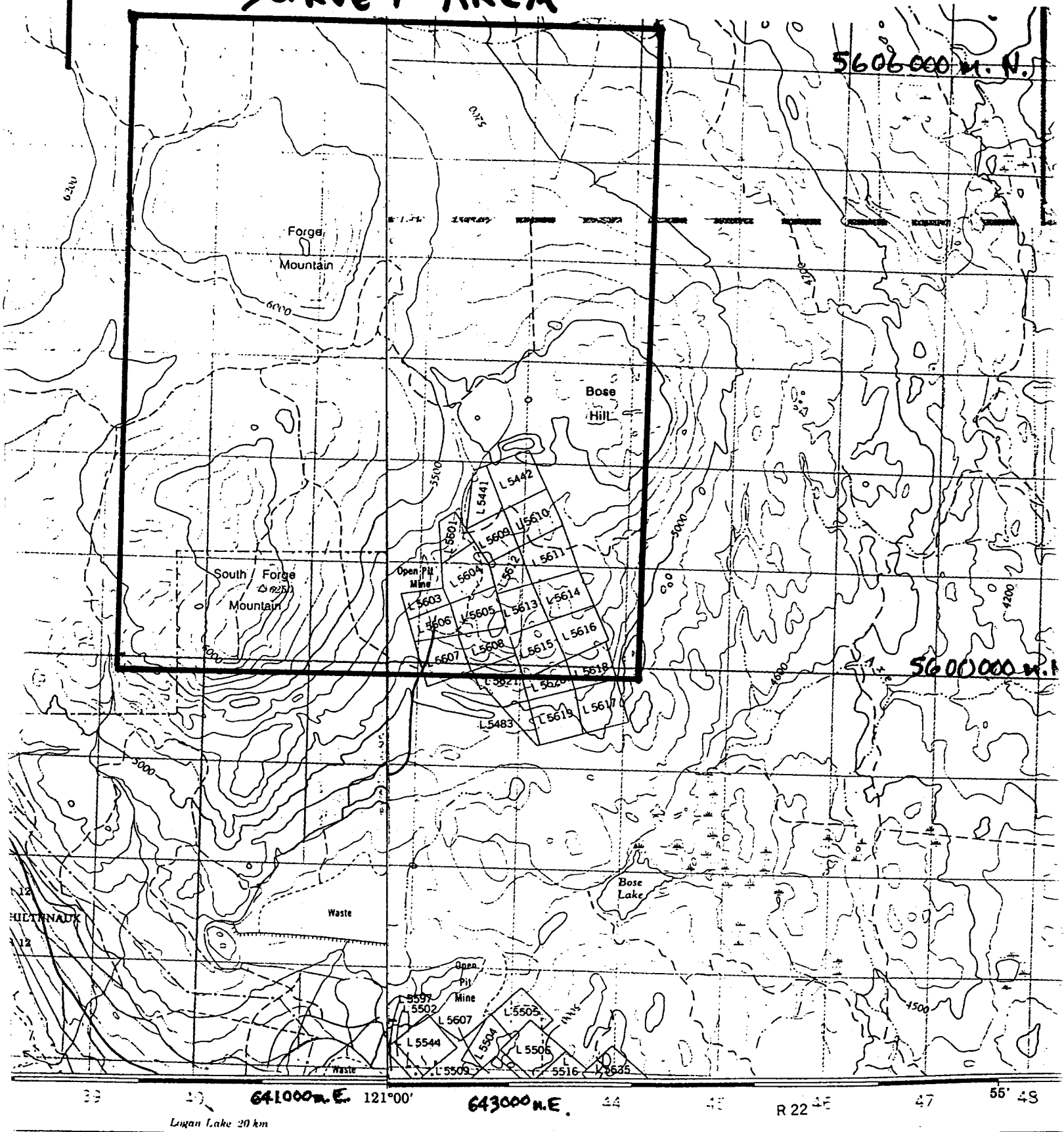
02° 30' N





9211E | 9211W 1:50,000
 0 500 M.

SURVEY AREA

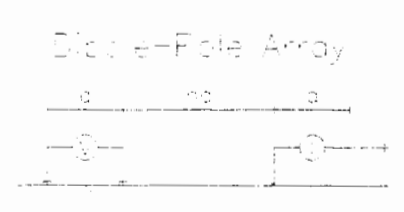
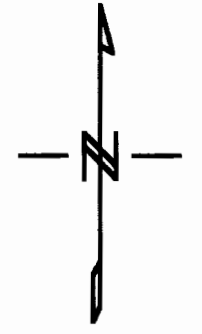


92I11E | 92I10W

1:50,000

0 500 m.

600W 400W 200W 0 200E 400E 600E 800E 1000E 1200E 1400E 1600E 1800E 2000E 2200E 2400E 2600E 2800E 3000E 3200E 3400E 3600E 3800E 4000E 4200E 4400E 4600E 4800E 5000E 5200E



GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

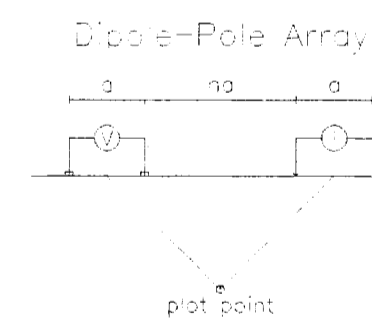
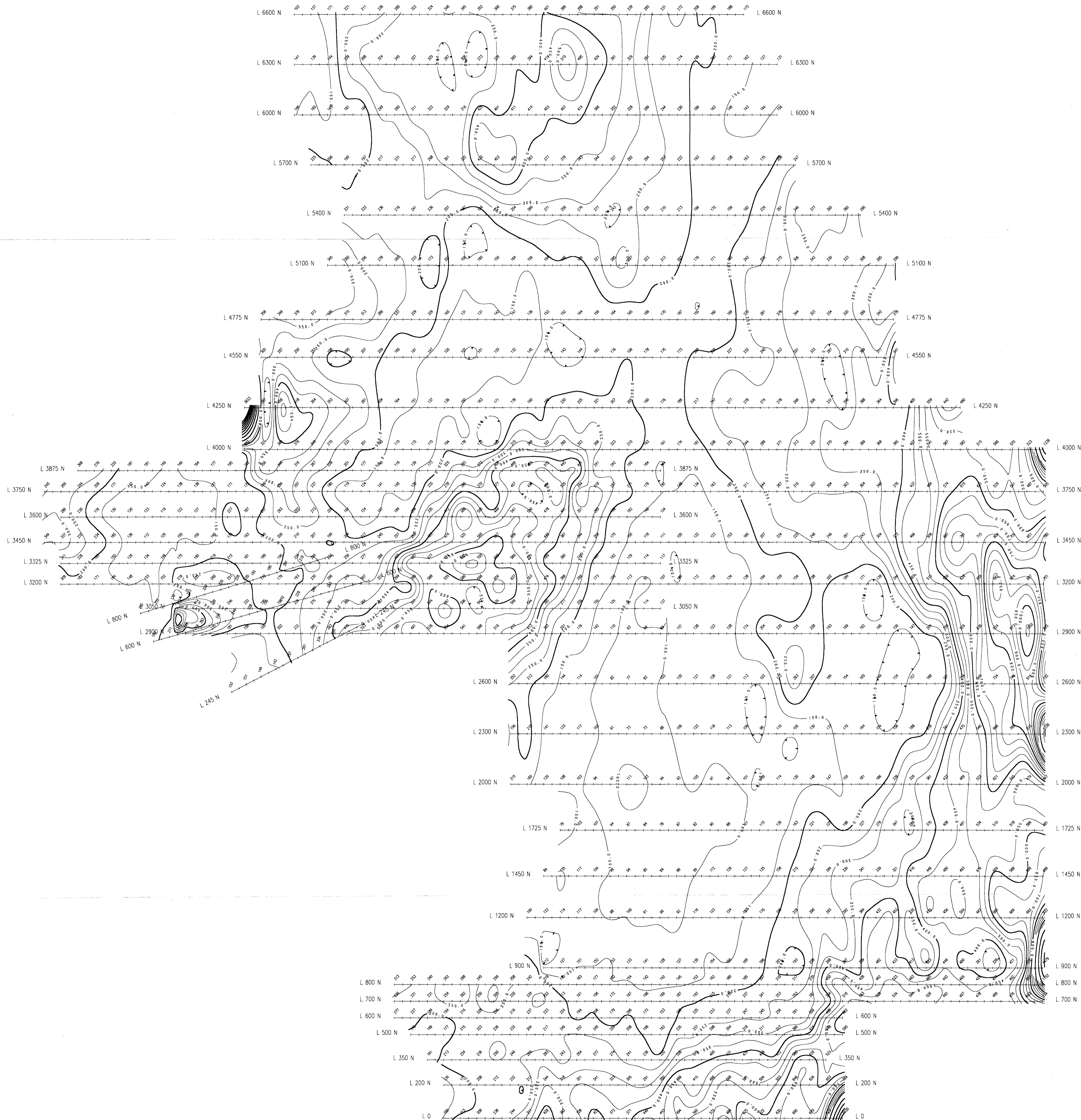
24,476

100 0 100 200 300 400 500 600 700
(meters)

600W 400W 200W 0 200E 400E 600E 800E 1000E 1200E 1400E 1600E 1800E 2000E 2200E 2400E 2600E 2800E 3000E 3200E 3400E 3600E 3800E 4000E 4200E 4400E 4600E 4800E 5000E 5200E

GETTY COPPER CORP.	
POLE-DIPOLE INDUCED POLARIZATION SURVEY CONTOURS OF APPARENT CHARGEABILITY at 100 m, 2.51 point dipole	
GETTY NORTH, SOUTH & WEST PROPERTIES KAMLOOPS MIN. DIV., BRITISH COLUMBIA OCTOBER 1995	
Map No. W-535-1	N.T.S. 92 1/10 & 11
PETER E. WALCOTT & ASSOC. LTD.	

600W 400W 200W 0 200E 400E 600E 800E 1000E 1200E 1400E 1600E 1800E 2000E 2200E 2400E 2600E 2800E 3000E 3200E 3400E 3600E 3800E 4000E 4200E 4400E 4600E 4800E 5000E 5200E



GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,476

100 0 100 200 300 400 500 600 700
(meters)

GETTY COPPER CORP.
POLE-DIPOLE
INDUCED POLARIZATION SURVEY
CONTOURS OF APPARENT RESISTIVITY
a = 100 m., 21 point filter
GETTY NORTH, SOUTH & WEST PROPERTIES
KAMLOOPS MIN. DIV., BRITISH COLUMBIA
OCTOBER 1995
Map No. W-535-2 N.T.S. 92 1/10 & 11
PETER E. WALCOTT & ASSOC. LTD.

600W 400W 200W 0 200E 400E 600E 800E 1000E 1200E 1400E 1600E 1800E 2000E 2200E 2400E 2600E 2800E 3000E 3200E 3400E 3600E 3800E 4000E 4200E 4400E 4600E 4800E 5000E 5200E