

84-#258-12208 5

GEOPHYSICAL, TRENCHING AND
DIAMOND DRILLING REPORT

Inconspicuous 1-7, TP Mineral Claims

Skeena Mining Division
Graham Island
Queen Charlotte Islands, B.C.

NTS 103F/14E, 15W

Latitude 53° 58' N
Longitude 133° 00' W

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,208

Date of Work:

Geophysics:	Jul. 4,	to	Jul. 20,	1983
Trenching:	Aug. 2,	to	Aug. 5,	1983
Diamond Drilling:	Sept. 19,	to	Dec. 16,	1983

By:	Robert T. Boyd
Owner:	Majorem Minerals Ltd.
Operator:	Homestake Mineral Development Company
Submitted:	April 1984

INCONSPICUOUS

		PAGE
I	INTRODUCTION.....	1
II	LOCATION & ACCESS.....	1
III	TOPOGRAPHY AND VEGETATION.....	1
IV	MINERAL CLAIMS.....	1
V	GEOLOGY.....	1
VI	INDUCED POLARIZATION AND VLF SURVEY.....	4
VII	TRENCHING.....	4
VIII	DIAMOND DRILLING.....	4
	Program	
	Results	
IX	CONCLUSION AND RECOMMENDATIONS.....	7
X	STATEMENT OF COSTS.....	10
XI	STATEMENT OF QUALIFICATIONS.....	16
XII	REFERENCES.....	15

APPENDIX

- I Logistics Report - Geoterrex
- II Interpretation Report - Geoterrex, S. Wardlaw
- III Induced Polarization - Profiles
VLF - Profiles
- IV Diamond Drill Logs
- V Diamond Drill Sections and Overlays
 - a) Geology, Geochem Au/Ag, and Composite
Geochemistry (Pb,Zn,Mo,As,Sb,Hg)
- VI Geochemical Results

FIGURES

	PAGE
Figure 1	Location Map.....2
Figure 2	Claim Map.....3
Figure 3	Plan - Geophysical Grid and Trench Location Map 1:1,000.....5
Figure 4	Diamond Drill Hole Location DDH IN83-1 through IN83-5 Map 1:500.....8
Table 1	Diamond Drill Hole Summary.....9

I INTRODUCTION

This report summarizes three phases of work completed on the Inconspicuous Property by Homestake Mineral Development Company. The geophysics, trenching and diamond drilling were to explore and define a multi-element soil geochemical anomaly outlined during the early summer of 1983. The geophysical and trenching program were completed under the supervision of J. J. Watkins and the drill program was supervised by R. T. Boyd of Homestake.

II LOCATION AND ACCESS

The property lies in the northwest of Graham Island, Queen Charlotte Islands, immediately south of Pivot Mountain, 115 km northwest of Sandspit (Figure 1). The property is isolated, with the best access being by helicopter from Sandspit.

III TOPOGRAPHY AND VEGETATION

Elevations on the property range from 60 meters (200 feet) to 500 meters (1700 feet) above sea level. Terrain is hilly and slopes moderately steep but easily traversable. Slopes are covered with hemlock-spruce forest with a mossy forest floor and practically no underbrush. Exposed bedrock is scarce.

IV MINERAL CLAIMS (Figure 2)

<u>Claim Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Record Date</u>
Inconspicuous 1	15	2471	August 1, 1980
Inconspicuous 2	6	2472	August 1, 1980
Inconspicuous 3	8	2473	August 1, 1980
Inconspicuous 4	20	2474	August 1, 1980
Inconspicuous 5	15	2549	Sept. 12, 1980
Inconspicuous 6	20	2854	Feb. 11, 1981
Inconspicuous 7	15	2855	Feb. 11, 1981
TP	16	4019	August 15, 1983

V GEOLOGY

The general geology of the area is described by A. Sutherland-Brown in Bulletin 54, Geology of the Queen Charlotte Islands, B.C., Department of Mines and Petroleum Resources.

Homestake Mineral Development Co.

**LOCATION OF
INCONSPICUOUS PROPERTY**

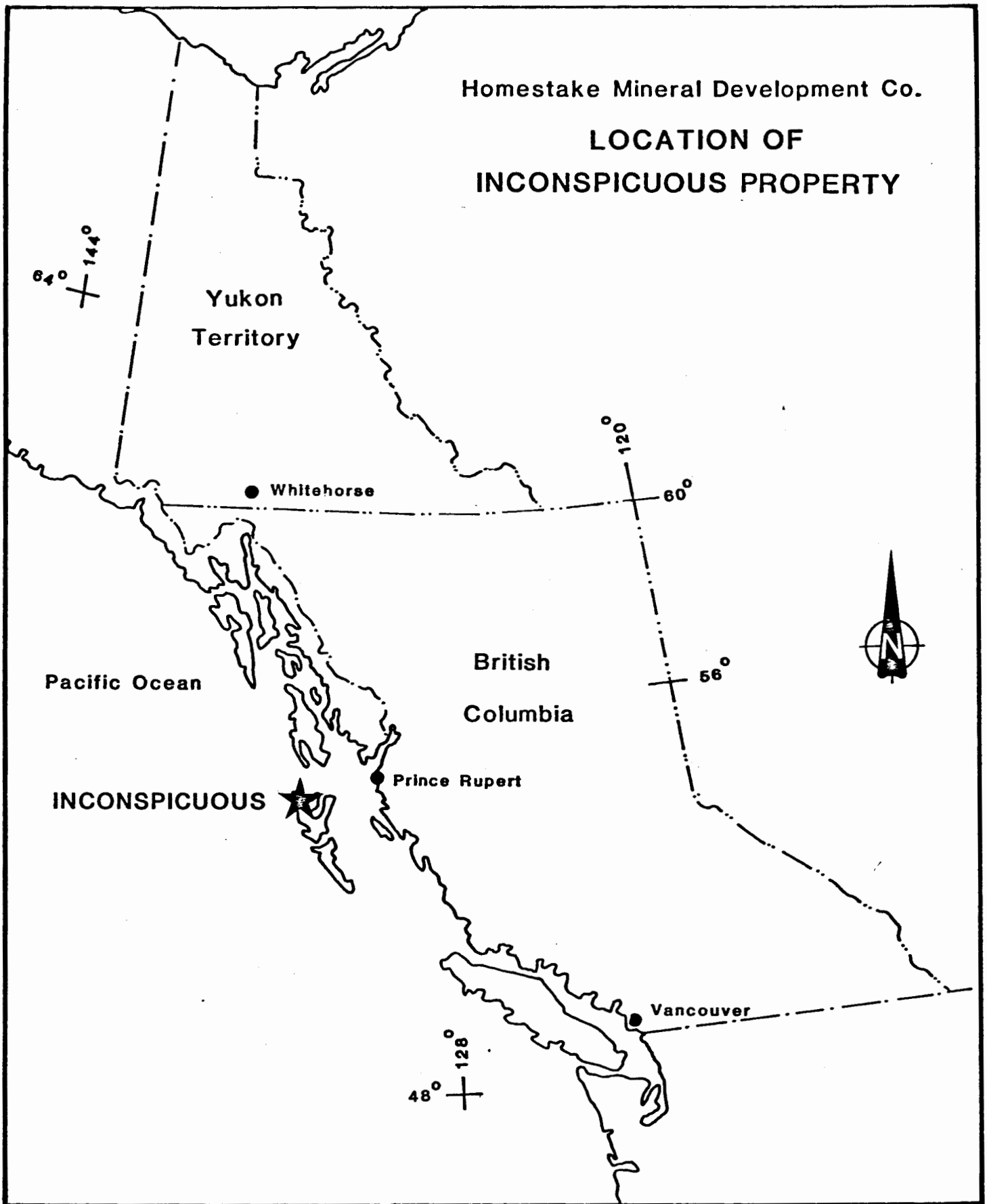


Figure 1

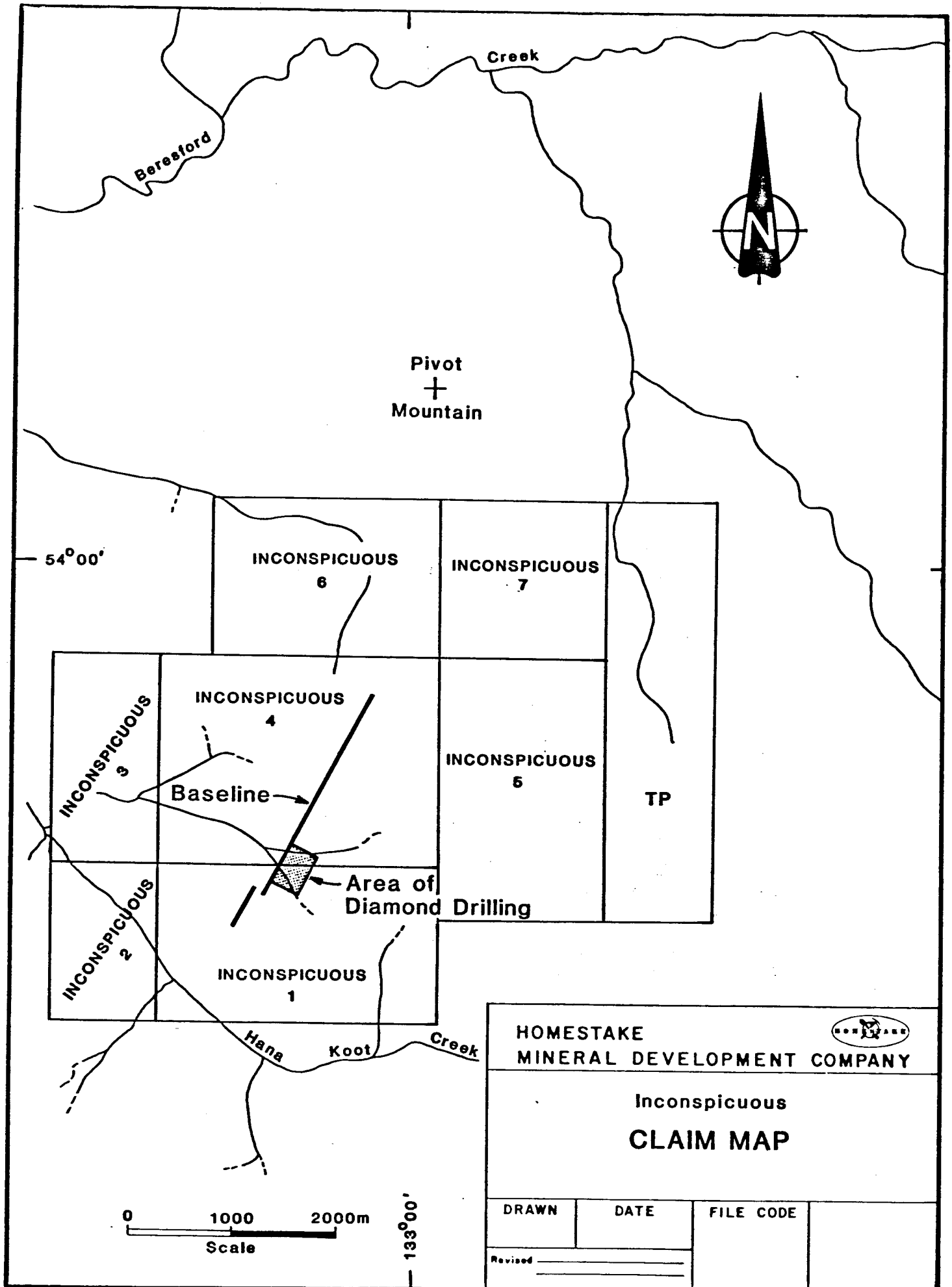


Figure 2

Outcrop exposure on the grid area of the property is minimal and entirely restricted to creek beds. Bedrock consists of medium-grained inequigranular, leucocratic intermediate porphyritic tuffs or volcanics with phenocrysts of plagioclase often altered to sericite or chlorite and calcite. These volcanics belong to the Tertiary Masset formation as defined by Sutherland Brown.

VI INDUCED POLARIZATION AND VLF SURVEY

Geotrex Ltd. of Sidney, B.C. were contracted to conduct an induced polarization and VLF Survey on the Inconspicuous property. The geophysical program was limited to the strongest area of coincident multi-element soil geochemical anomalies (see J. J. Watkins, August, 1983). The complete Logistics and Interpretation Reports and Conclusions for this program are contained within Appendix I & II respectively. The IP profiles and VLF profiles can be consulted in Appendix III.

VII TRENCHING

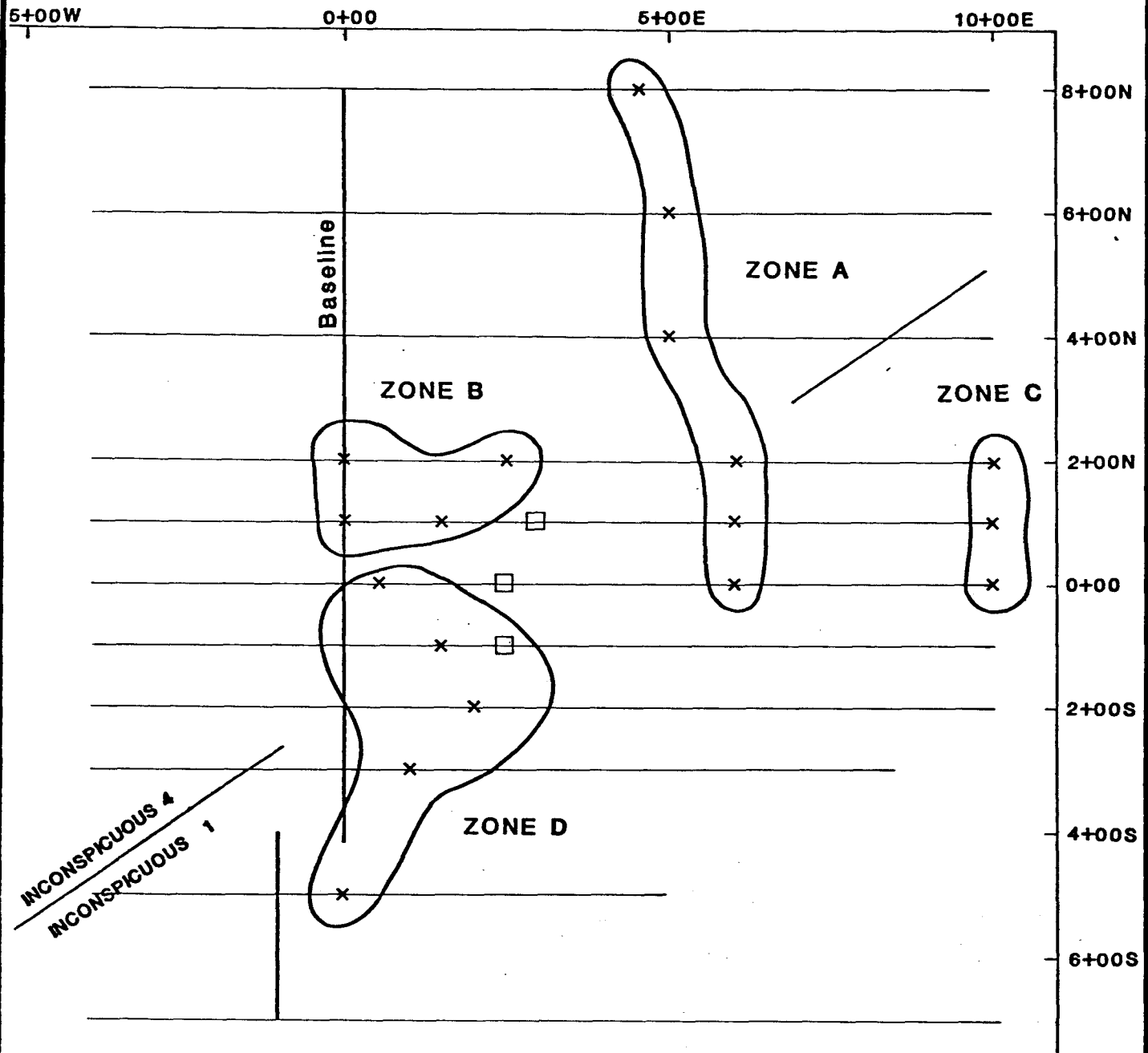
Three of six planned trenches to bedrock were attempted in the areas of coincident soil geochemical and induced polarization anomalies. A plugger and explosives were used, but were unsuccessful in reaching bedrock. A thick, clay-rich talus and overburden thickly mask the bedrock. These trenches were all located at the three eventual collar sites for the diamond drill holes (see Figure 3).

VIII DIAMOND DRILLING PROGRAM

The Program

As a result of the soil geochemical and geophysical surveys a coincident anomaly indicative of a possible bulk tonnage gold target was identified on the Inconspicuous Property (J. J. Watkins 1983). Due to the disappointing trenching results it was decided to test this coincident soil geochemical and geophysical anomaly by diamond drilling.

Longyear Canada Inc. was contracted to complete the program of six proposed holes, and mobilized onto the property in late September 1983. A Longyear 38 wireline NQ core drill was used with two two-man shifts. Mobilization and demobilization was facilitated by Bell 204



- x Centre of IP Anomalies
- Location of Unsuccessful Trenches


HOMESTAKE MINERAL DEVELOPMENT COMPANY			
Inconspicuous GEOPHYSICAL GRID AND TRENCH LOCATION MAP			
DRAWN	DATE	FILE CODE	
Revised _____			

Figure 3

and Bell 206 helicopters from Vancouver Island Helicopters, Sandspit. The drill moves were completed using a Hughes 500D helicopter from Queen Charlotte Helicopter, Sandspit. Drilling was completed by early November and the camp and diamond drill demobilized in mid-December 1983.

One and sometimes two Homestake geologists were on site, supported by a coresplitter assistant and a cook. Core was logged, photographed, and sampled at the campsite. Core samples were shipped by PWAir to Acme Analytical Labs in Vancouver and analysed for Au(FA+AA) and Ag(AA). After completion of the program, pulp samples of the core were composited by weighted average into approximately 8 meter intervals when possible. These samples were then re-analysed for 10 element ICP (Mo,Cu,Pb,Zn,Ni,Co,Mn,As,Sb,Cr) and Hg by flameless AA.

The core is stored in the Q.C.I. Helicopter shed in Sandspit.

The Results

Only 5 of the proposed 6 holes were drilled. Two of these holes had to be terminated prior to target depth due to technical problems (see Table 1). Core recovery was poor with a weighted average of approximately 85% for the five holes. Total meterage drilled on the program was 539.2 meters. Major technical problems with the drilling were due to the jointed nature of the unaltered rock. This resulted in excessive caving of the hole. The high kaolinite clay content in the altered sections necessitated costly shipments of drilling mud to prevent squeezing in the hole.

The geology encountered in the drilling consisted of a thick succession of variously altered pyroclastics and possible flows intruded by relatively unaltered andesite porphyry dikes and flows (or sills) (see Appendix IV,V). These sequences can be correlated with Sutherland-Brown's Paleocene Masset formation volcanics.

The volcanic units have been interpreted to dip to the west and are crosscut by a major shear zone which strikes northeast. This shear zone was intersected in the drill holes on section 0+00 and 1+00S and significantly offset the stratified geology. This shear zone parallels the geochemical anomaly. Strong argillic alteration with associated kaolinitic clay development is associated with this fault zone. Some minor associated silicification was also observed within the shear zone and possibly within one of the stratified units. Varying intensities of propylitic alteration are present throughout

most of the drill holes. Zones of weak to absent alteration contain disseminated pyrrhotite. The disseminated pyrrhotite is altered to pyrite in hydrothermally altered zones.

Significant gold mineralization was only intersected in IN83-5 (4.85 gpt Au/3.98 m.) associated with arsenopyrite in strongly argillically altered and brecciated latite porphyry associated with the fault zone.

Composite samples indicate strong arsenic enrichment associated with the anomalous gold values within the shear zones. A moderate enrichment in mercury is associated with the hanging wall of the shear zones. Trace stibnite mineralization observed in some of the drill core is associated with only slightly anomalous values in the geochemical analysis.

IX CONCLUSIONS AND RECOMMENDATIONS

Results of the diamond drilling indicate that little potential exists to define a bulk tonnage gold target amenable to open pit mining. The poorly silicified nature of the gold-bearing zones and narrow widths of mineralization suggest that viable tonnages do not exist on the Inconspicuous property.

No further work is recommended.

Homestake Mineral Development Co.

CONCEPT TEST DRILLING

Inconspicuous Project

November 1983

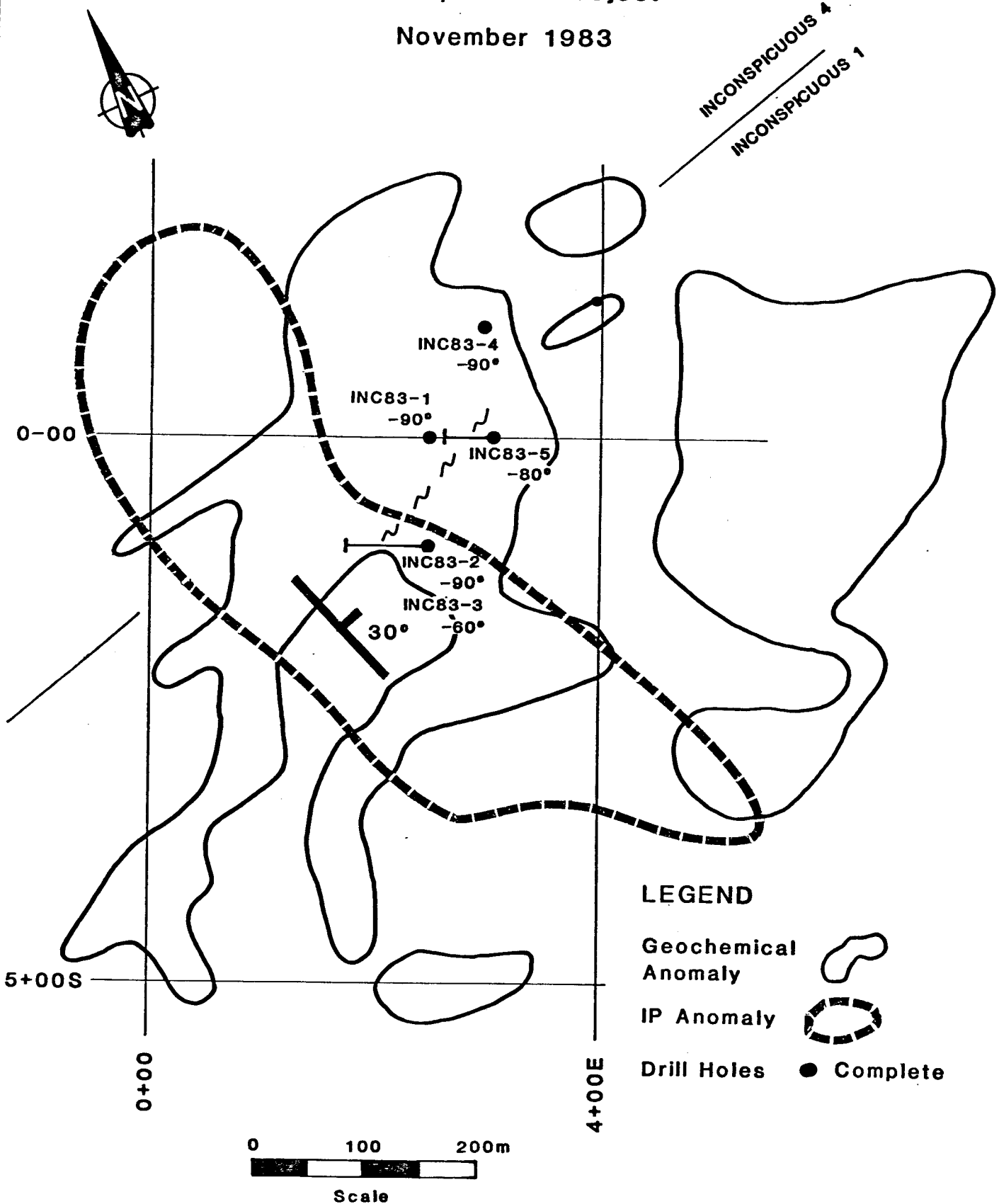


Figure 4

INCONSPICUOUS PROJECT

Table 1

Concept Test
 Diamond Drilling Summary
 September-October 1983

DDH Hole	Grid Coordinates	Starting Date	Finish Date	Depth	Dip	Azimuth	Depth of Casing	Total Meterage	Remarks
IN83-1	0+00E, 2+50E	Sept.28	Sept.30	91 ft. 27.7 m.	-90°	vert.		91 ft. 27.7 m.	Abandoned due to sanding
IN83-2	1+10S, 2+50E	Oct. 2	Oct. 5	510 ft. 155.5 m.	-90°	vert.	32 ft.left in hole	601 ft. 183.2 m.	
IN83-3	1+10S, 2+50E	Oct. 5	Oct. 9	437 ft. 133.2 m.	-60°	295°	40 ft.left in hole	1038 ft. 316.4 m.	
IN83-4	1+00N, 3+00E	Oct. 11	Oct. 15	127 ft. 38.7 m.	-90°	vert.		1165 ft. 355.1 m.	Abandoned due to caving and sanding
IN83-5	0+00E, 3+09E	Oct. 17	Oct. 23	604 ft. 184.1 m.	-80°	295°	85 ft.left in hole	1759 ft. 539.2 m.	Lost circulation

X STATEMENT OF COST

A. GEOPHYSICAL PROGRAM (July 4 - 20, 1983)

1. Mobilization and Camp Servicing

Queen Charlotte Helicopters (500D)
July 4,12,20
7.0 hrs. @ \$505.10/hr. with fuel \$3,535.70

2. Supply and Camp Costs

16 days @ \$25/day x 6 men 2,400.00

3. Personnel

C. Sawan \$ 60/day x 16 days 960.00
D. Laronde \$ 70/day Jul.4-21 1,330.00
L. Renshaw \$ 80/day Jul.4-21 1,520.00
J. Watkins \$150/day x 5 days 750.00

D. Laronde Travelling Expenses 462.85
L. Renshaw Travelling Expenses 367.70

4. Groceries

City Center Stores 751.38
Vancouver Area Purchases 22.35

5. Services

Expediting (S. Sawan) 485.00
Shipping Costs 19.00

6. Operating Expenses

2 -SBX11 Rent 304.00
Field Material 11.89
Generator Rental 280.00

7. Geoterrex Geophysical Contract

Invoice #7019, 7024 - IP 14,455.00
Invoice #7026 - VLF 1,244.61

TOTAL (GEOPHYSICS)

\$28,899.48

B. TRENCHING PROGRAM (August 2 to 5, 1983)

1. Mobilization & Camp Servicing

Queen Charlotte Helicopters (500D)
August 2 - 5 - 4.5 hours @ \$533/hr with fuel \$2,398.50

2. Supply & Camp Costs

5 days @ \$25/day x 3 men 375.00

3. Personnel

C. Sawan Aug. 2-5 5 days @ \$ 60/day 300.00

J. Watkins Aug. 4-11 8 days @ \$150/day 1,200.00

J. Watkins Expenses 987.35

4. Groceries and Supplies

City Center Stores 768.72

Fuel, Propane 120.00

5. Services

Expediting (S. Sawan) 337.50

6. Operating Expenses

2 - SB x 11 Rent 152.00

7. Trenching Contractor

J. Hemelspeck Invoice #48119 3,085.34

TOTAL (TRENCHING) \$9,724.41

C DIAMOND DRILLING PROGRAM (Sept. 19 through Dec. 16, 1983)

1. Mobilization, Demobilization, Camp Servicing

D & E Towing and Salvage - Barge (5 trips)	\$20,000.00
Queen Charlotte Helicopters (500D) September 12,29 - October 1-30 - November 4 48.9 hours @ \$555/hour with fuel	27,139.50
Vancouver Island Helicopters (206L) September 24 - December 12, 16 4.2 hours @ \$593/hour with fuel	2,490.60
Vancouver Island Helicopters (204D) September 24,25,27, December 12-15 27.4 hours @ \$1,069/hour with fuel	29,290.60
Fixed Wing - Goose	216.00
Truck Rental (HMDC Suburban) 2 weeks @ \$250/week	500.00
Truck (Shipping Vancouver to Masset)	<u>575.00</u>
Subtotal	<u>\$80,211.70</u>

2. Camp Construction - Drill Site Prep and Reclamation Costs

P. Pewik (Faller)	\$ 750.00
M. Sawan (Faller)	250.00
J. Mould (Faller)	500.00
D. Pewik (Travel Expenses)	<u>62.00</u>
Subtotal	<u>\$ 1,562.00</u>

3. Personnel

G. Cooper	Sept.19 - Dec. 18 67 office & field days @ \$90/day	\$ 6,030.00
R. Boyd	Sept.19 - 41 office & field days @ \$150/day	6,150.00

J. Watkins	Sept.19 - Sept. 21		
	8 days	@ \$150/day	1,200.00
D. Laronde	5 days	@ \$70/day	350.00
T. Funk (Cook)	39 days	@ \$69.50/day	2,710.00
C. Sawan	41 days	@ \$60/day	2,460.00
R. Boyd	Travel Expenses		1,240.42
G. Cooper	Travel Expenses		<u>2,469.30</u>
Subtotal			<u>\$22,609.72</u>

4. Geochemical Analysis & Sample Shipments

Acme Analytical:

242 Sample prep	@ \$2.50	\$ 605.00
223 Compositing prep	@ \$1.25	278.75
239 Gold Geochem (FA + AA)	@ \$5.25	1,254.75
194 Silvergeochem (AA)	@ \$1.85	358.90
67 Mercury Geochem	@ \$3.00	201.00
64 10 Element ICP Analysis	@ \$5.00	320.00
48 30 Element ICP Analysis	@ \$5.50	264.00
19 Au assay	@ \$6.50	123.50
4 Ag assay	@ \$9.00	36.00
9 Au, Ag assay	@ \$10.00	<u>90.00</u>
Subtotal		<u>\$3,531.90</u>

Pacific Western (Core Shipping)	\$1,730.07
---------------------------------	------------

5. Groceries

City Center Stores	\$3,650.26
Cash Purchases	<u>132.82</u>
Subtotal	<u>\$3,783.08</u>

6. Services

Expediting (S. Sawan)	\$2,737.50
Drafting (M. Sullivan)	240.00
Sureway Transport	<u>292.22</u>
Subtotal	<u>\$3,269.72</u>

7. Operating Expenses

2-SBX11 Rental	\$ 608.00
Stove Oil, Gasoline, Propane	1,520.00
Barrel Credit	240.00-
Expendable Supplies	3,135.74
50% Recoverable Supply Costs	<u>1,134.19</u>
Subtotal	\$6,157.93

8. Longyear Drilling Contract

Invoice No. 4850	\$21,533.17
Invoice No. 4966	37,555.42
Invoice No. 4967	20,090.21
Invoice No. 4975	787.51
Invoice No. 5087	983.36
Invoice No. 5092 (Credit)	554.76-
Invoice No. 5093 (Credit)	1,589.44-
Invoice No. 5216	7,129.10
Invoice No. 5329	<u>2,438.81</u>
Subtotal	\$88,373.38

TOTAL (DRILLING) \$211,229.50

GRAND TOTAL \$249,853.39

REFERENCES

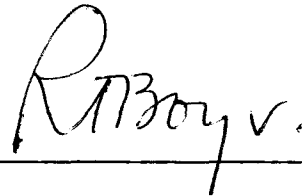
Sutherland Brown, A. 1968; Geology of the Queen Charlotte Islands,
British Columbia; B.C. Department of Mines; Bull.54.

Watkins, J. J., August 1983; Soil Geochemical Survey Assessment
Report, Inconspicuous #1 - #7 Mineral Claims, Skeena Mining
Division.

STATEMENT OF QUALIFICATIONS

I, ROBERT T. BOYD, of 4987 Marguerite Street, of Vancouver, British Columbia hereby certify that:

1. I am a graduate of the University of Western Ontario having obtained the degree of Bachelor of Science in Geology in 1975.
2. I have worked in the field of mineral exploration since 1974.
3. The diamond drilling program described in this report was under my supervision.

A handwritten signature in cursive script, appearing to read 'R. T. Boyd', written over a horizontal line.

ROBERT T. BOYD
SENIOR EXPLORATION GEOLOGIST

APPENDIX I

Geoterrex Limited

Logistics Report

LOGISTICS REPORT
FOR AN
INDUCED POLARIZATION AND VLF SURVEY

IN THE

QUEEN CHARLOTTE ISLANDS
conducted on behalf of
HOMESTAKE MINERAL DEVELOPMENT COMPANY

Project #85-935
GEOTERREX LTD.
Sidney, British Columbia

July, 1983

TABLE OF CONTENTS

	<u>Page</u>
I INTRODUCTION	1
II PERSONNEL AND EQUIPMENT	2
A. Personnel	
B. Equipment	
III SURVEY PROCEDURES	3
IV DATA REDUCTION AND PRESENTATION	4
V CONCLUSIONS AND RECOMMENDATIONS	4

APPENDIX A INSTRUMENT SPECIFICATIONS

APPENDIX B PRODUCTION REPORTS

ACCOMPANYING REPORT:

IP Pseudo-sections

VLF Profiles

I INTRODUCTION

During the period, July 4 to July 21, 1983, Geoterrex Limited of 9865 West Saanich Road, Suite 107A, Sidney, British Columbia, V8L 3S1 conducted an induced polarization and VLF electromagnetic survey program on behalf of Homestake Mineral Development Company of 856 Homer Street, Suite 201, Vancouver, British Columbia, V6B 2W5.

Eleven lines were completed on Inconspicuous Grid, located in northwest Queen Charlotte Islands, British Columbia (see Figure 1). The purpose of the survey was to map chargeable bodies associated with possible gold-bearing pyrite regions.

FIGURE 1



II PERSONNEL AND EQUIPMENT

A. Personnel

Geoterrex Limited provided the following personnel to perform the survey:

<u>Name</u>	<u>Position</u>
Steve Wardlaw	Geophysicist/Party Manager
Jim Hawkins	Geophysicist/Operator

In addition, Homestake Mineral Development provided the following personnel:

Dave Lalonde	Operator
Conrad Sawan	Helper

B. Equipment

Geoterrex Limited provided the following equipment for field operations:

- 2 Scintrex IPR-7 induced polarization receivers
- 1 Elliot 15A induced polarization transmitter and motor generator set
- 2 Motorola MT500 radio transceivers
- 1 Hewlett Packard HP41C programmable calculator

All wire, tools, and ancillary equipment necessary for safe and efficient field operations.

In addition, a Geonics EM-16 VLF electromagnetic unit was rented for the length of the program (S/N 19043).

III SURVEY PROCEDURES

The Induced Polarization survey was completed using a dipole-dipole electrode configuration which is illustrated in Figure 2. Apparent chargeability (M_a) and apparent resistivity (ρ_a) measurements were made using a Scintrex IPR-7 receiver utilizing a Newmont-type time domain wave form (see Figure 3). An Elliot 15A transmitter with a power output of 1.5 KVA was used. Instrument specifications can be found in Appendix A, at the end of the report.

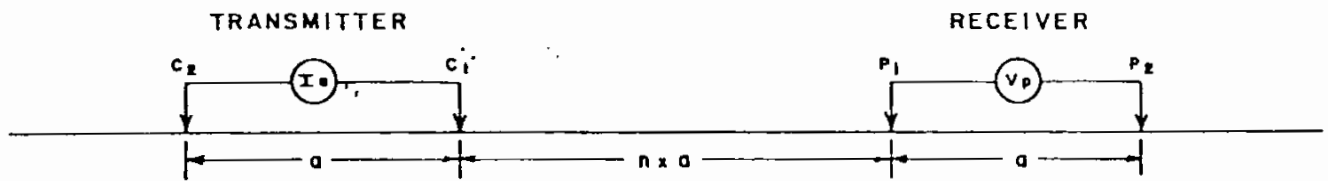
Eleven lines varying from 1.2 km to 1.4 km in length were surveyed. Using an "a" spacing of 100 m, a seven electrode spread was used on the shorter lines while a nine electrode spread provided coverage on the longer lines. Two overlapping seven electrode spreads were used on L1S and L2S before it was decided to go with the nine electrode spreads. Large sheets of aluminum foil buried in the ground served as electrodes. Readings out to $n = 6$ were taken whenever possible. Noisy conditions on the northern lines permitted readings only to $n = 5$. A sketch map of the lines surveyed can be found in Figure 4.

VLF readings were taken on all lines surveyed by induced polarization, at a station spacing of 50m. Transmitter station NAA (Cutler, Maine) transmitting at 17.8 KHZ was used. Operators faced west when taking the readings.

Production reports detailing the daily production can be found in Appendix B, at the end of the report.

FIGURE 2

DIPOLE-DIPOLE ELECTRODE CONFIGURATION



- C_1, C_2 CURRENT ELECTRODES
- P_1, P_2 POTENTIAL ELECTRODES
- I_a APPLIED CURRENT
- V_p PRIMARY VOLTAGE
- a DIPOLE LENGTH
- n 1, 2, 3, ... etc.

APPARENT RESISTIVITY $\rho_a = K_n V_p / I_a$

WHERE $K_n = \pi a n (n+1) (n+2)$

PLOTTING OF MEASUREMENTS ON PSEUDO-SECTIONS

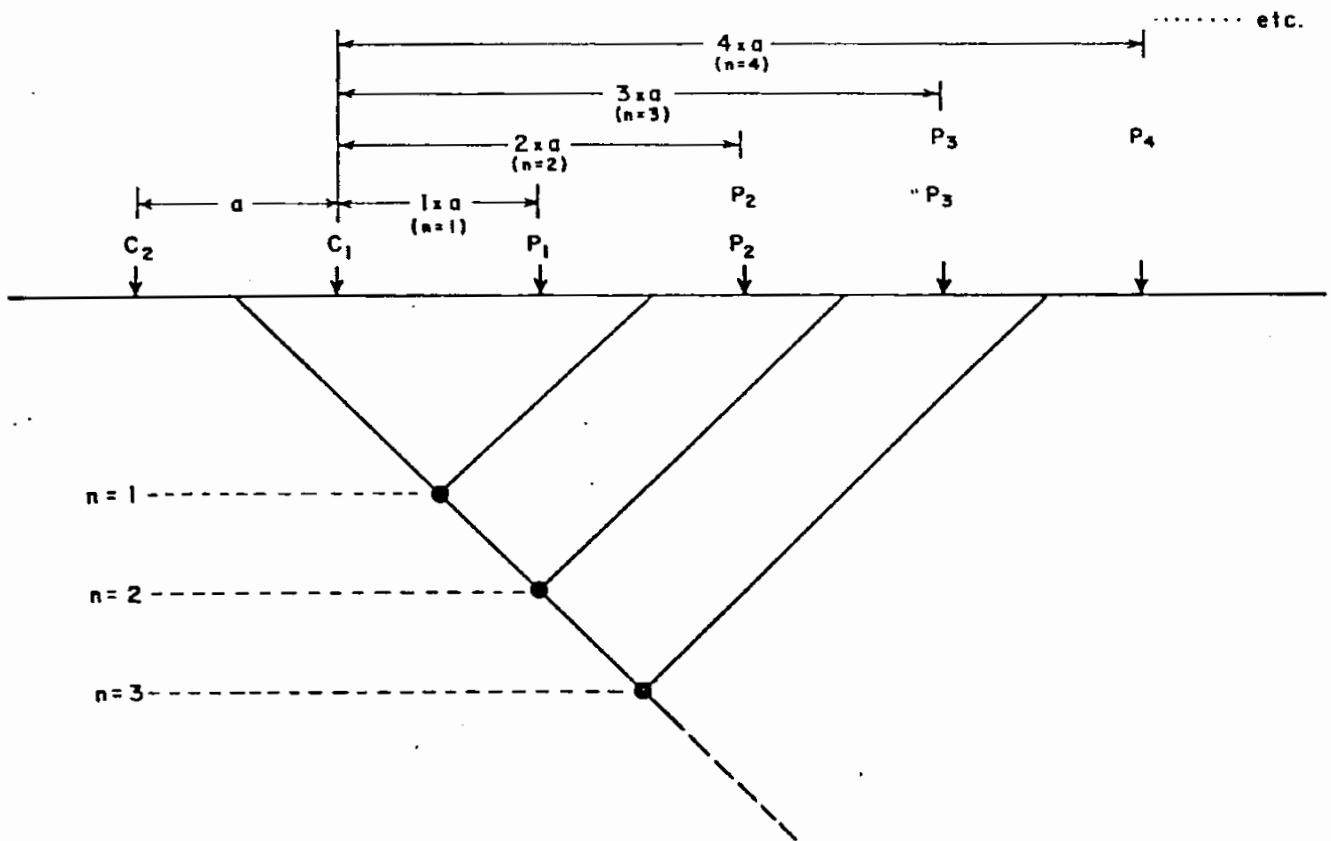
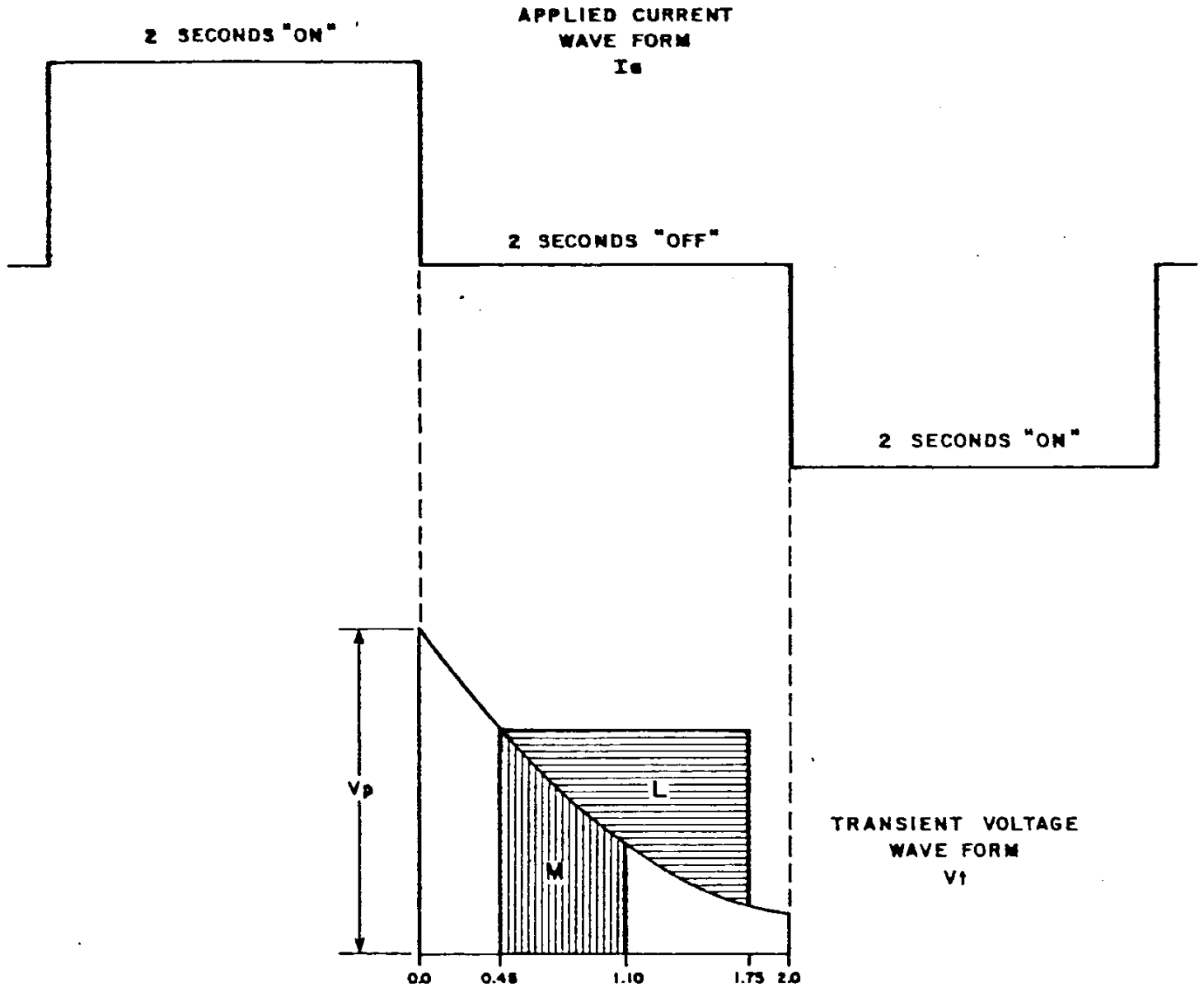


FIGURE 3

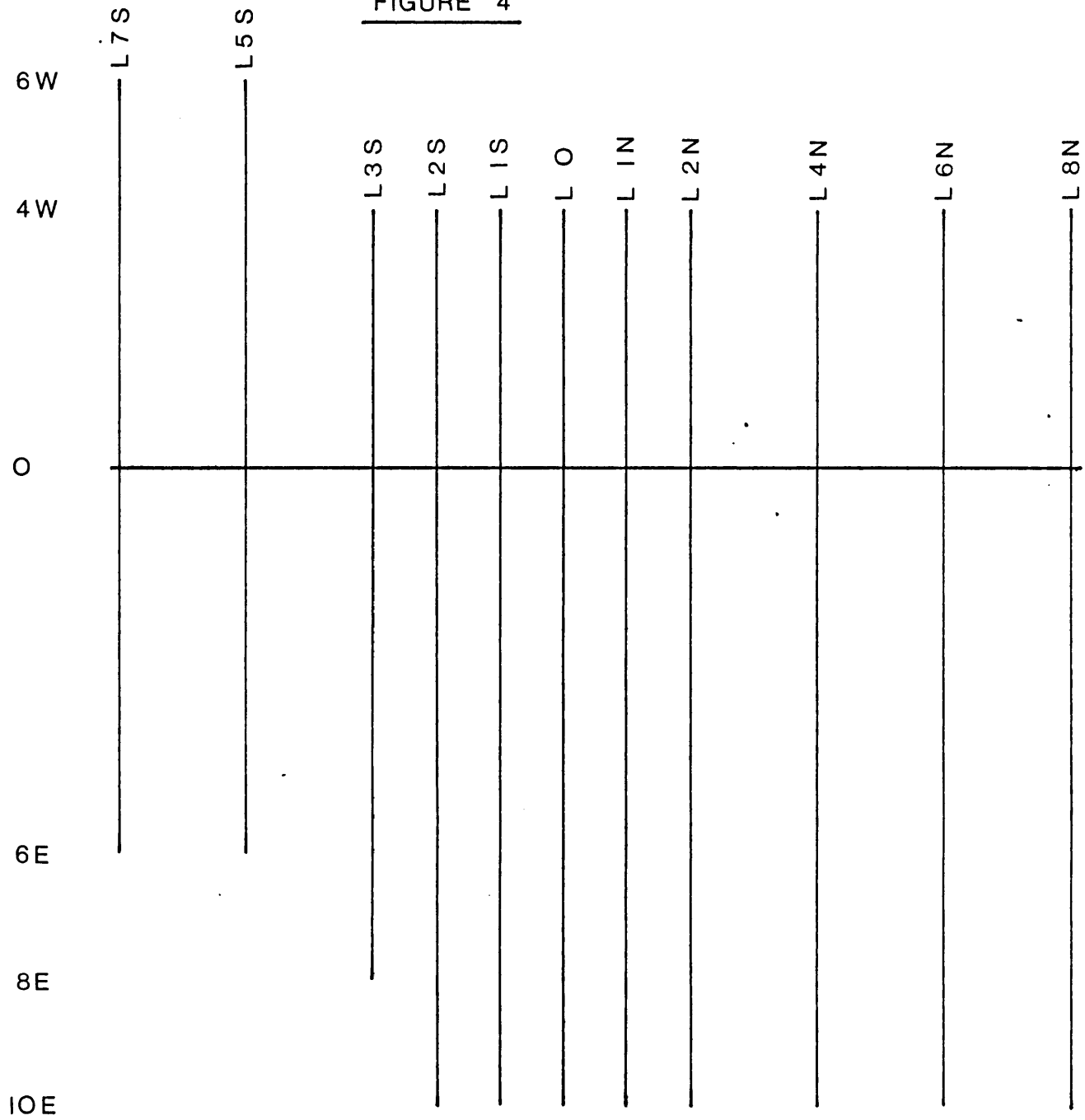
NEWMONT-TYPE TIME DOMAIN WAVE FORMS
AND QUANTITIES MEASURED



M..... CHARGEABILITY IN MILLISECONDS

L..... AREA ABOVE DELAY CURVE

FIGURE 4



GRID MAP

IV DATA REDUCTION AND PRESENTATION

The apparent chargeability (Ma), in milliseconds or millivolt-second per volt is read directly on the Newmont type IP receiver. The chargeability is measured for several complete cycles then divided by the total number of pulses. Apparent resistivity (ρ_a) is calculated from the primary voltage, V_p and the applied current, I_a as is illustrated in Figure 2.

Apparent chargeability and apparent resistivity values are plotted as pseudo-sections (see example in Figure 5) and can be found accompanying the report.

Dip angle and quadrature values are read directly from the VLF instrument, and are plotted as profiles accompanying the report.

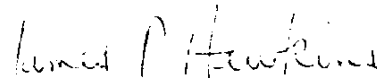
V CONCLUSIONS AND RECOMMENDATIONS

Rough topography, poorly cut lines and bad weather greatly hampered the survey and reduced the daily production of the survey crew. Considering that this is the norm for work in the Queen Charlotte Islands, not much can be done but "grin-and-bear-it".

Full VLF coverage of any future area may be beneficial, considering its low cost and use as a geophysical mapping tool.

We would like to thank the Homestake personnel for the assistance given throughout the survey.

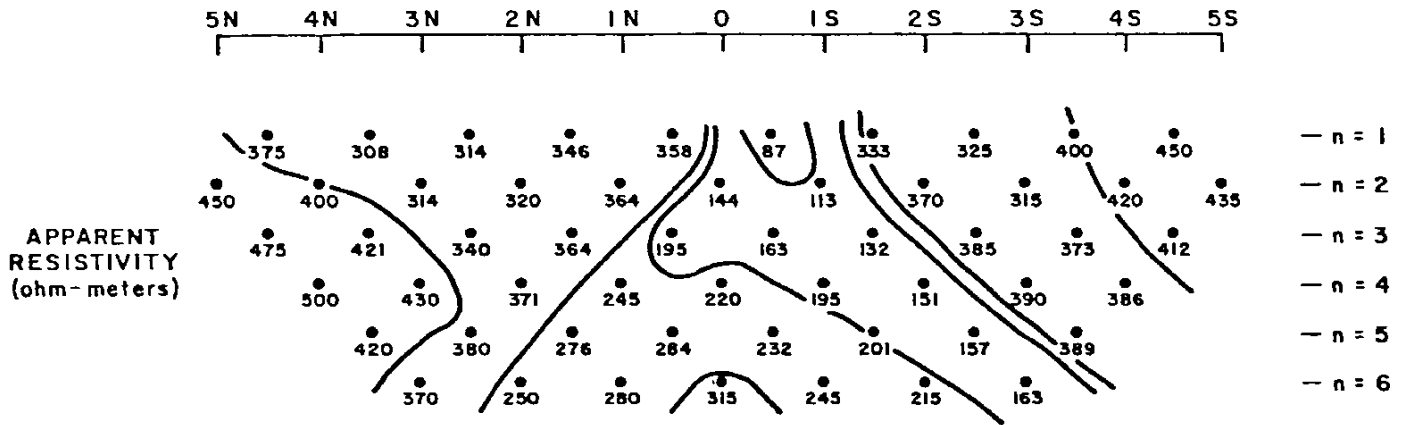
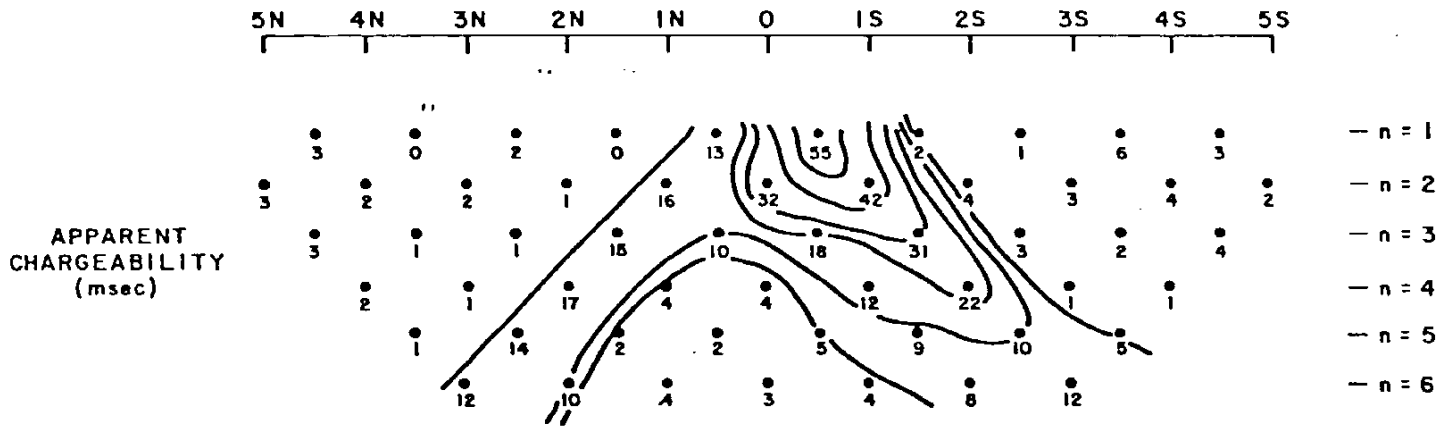
Respectfully submitted



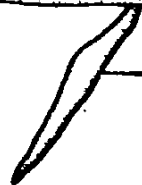
James P. Hawkins

Geophysicist

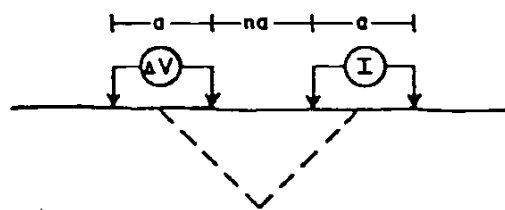
FIGURE 5



GRANITE



DIPOLE DIPOLE ARRAY



INDUCED POLARIZATION - RESISTIVITY

APPENDIX A

SPECIFICATIONS

SCINTREX IPR-7

INDUCED POLARIZATION RECEIVER

MANUFACTURER: , Scintrex Limited
222 Snidercroft Road,
Concord, Ontario

USE: Inducted Polarization/Resistivity

TYPE: Time Domain, Analog Newmont type

INPUT IMPEDANCE: 300 K ohms

PRIMARY VOLTAGE RANGE: 300 microvolts to 30 volts

ACCURACY: $\pm 3\%$ full scale

CHARGEABILITY (M)

RANGE: 0 to 100 and 0 to 300 milliseconds

ACCURACY: $\pm 5\%$ full scale

CURVE FACTOR (L)

RANGE: 0 to 100 and 0 to 300 milliseconds

ACCURACY: $\pm 5\%$ full scale

DELAY TIME BEFORE
INTEGRATION: 0.45 seconds

INTEGRATION PERIOD: 0.65 seconds

SP AND VLF NOISE
COMPENSATION: Manual: ± 1.5 millivolts
Automatic: 1 mV range \pm mV total
30 mV range \pm mV total

OPERATING TEMPERATURE: -20°F to 130°F / -29°C to 55°C
(to 100% humidity non-condensing)

POWER SUPPLY: Internal rechargeable Nicad batteries
12 volts external charger

DIMENSIONS: 14 x 11 x 6.5 inches/35.5 x 28 x 16.5
centimeters

WEIGHT: 13.5 pounds/6.1 kilograms including
batteries

SPECIFICATIONS

ELLIOT 15A

INDUCED POLARIZATION TRANSMITTER

MANUFACTURER: Elliot Geophysical Company
4653 East Pima Street
Tucson, Arizona 85712

USE: Induced Polarization/Resistivity

TYPE: Time Domain - Solid State

INPUT POWER: Single Phase - 400 cps, 115 volts, 2 KVA

OUTPUT POWER:

VOLTAGE: 200 to 3000 volts in 12 taps

CURRENT: 5 amperes maximum

TIMING CYCLE: On and off periods adjustable

OPERATING TEMPERATURE: + 5°F to + 140°F / -15°C to + 60°C

DIMENSIONS: 10.5 x 16 x 11.5 inches
26.7 x 40.6 x 29.2 centimeters

WEIGHT: 45 pounds / 20.4 kilograms

SPECIFICATIONS

ELLIOT 15A

INDUCED POLARIZATION TRANSMITTER POWER SUPPLY

MANUFACTURER: Elliot Geophysical Company
4653 East Pima Street
Tucson, Arizona 85712

TYPE: Alleco Brushless, single phase,
400 cps, 120 volts, shaft driven

OUTPUT: 2 KVA

ENGINE: Briggs and Stratton type 100232,
gasoline 4 hp, aircooled, recoil start

DIMENSIONS: 17 x 25 x 18 inches
43.2 x 63.5 x 45.7 centimeters

WEIGHT: 72 pounds / 32.7 kilograms

APPENDIX B

SECURITY V. L. L. PRODUCTION REC'D.

CLIENT: HOMESTAKE

PROJECT NO.: 85-935

TYPE OF SURVEY: IP

JULY	DATE	PRODUCTION	SURVEY CHARGES	BILLABLE						
				CREW SIZE	LABOUR COST	VEHICLE RENTAL	VEHICLE MILEAGE	GAS & OIL	LIVING EXPENSES	MISCELLANEOUS EXPENSES
SUNDAY	3	SW MOB TO VANCOUVER IN EVENING	MOB						1 NIGHT DELTA AIRPORT VAN \$70.87	
MONDAY	4	SW MEETS WITH JOHN WATKINS SW, JH MOB TO SANDSPIT ARRANGED RENTAL OF A CAMP GENERATOR.	MOB							AIRFARE VAN → Q. RTN × 2 \$582.00
TUESDAY	5	L1S Tx @ 1400W 10 STNS. HEAVY RAIN IN AFTERNOON FORCED EARLY FINISH TO THE DAY	3/4 PROD. 1/4 SB.							
WEDNESDAY	6	L2S Tx @ 1400W 12 STNS	1 PROD.							
THURSDAY	7	L3S Tx @ 2400E 14 STNS	1 PROD.							
FRIDAY	8	L5S Tx @ 0400 14 STNS	1 PROD							
SATURDAY	9	L7S Tx @ 0400 13 STNS	1 PROD							

NOTES: 4 MAN CREW - GTR PERSONNEL: S. WARDLAW, J. HAWKINS. - HOMESTAKE SUPPLIED

2 MEN COOK AND CAMP PLUS HELICOPTER SUPPORT.

S. Wardlaw

CLIENT: HOMESTAKE

PROJECT NO.: 85-935

TYPE OF SURVEY: IP

JULY	DATE	PRODUCTION	SURVEY CHARGES	BILLABLE						
				CREW SIZE	LABOUR COST	VEHICLE RENTAL	VEHICLE MILEAGE	GAS & OIL	LIVING EXPENSES	MISCELLA EXPEN
SUNDAY	10	L 2S Tx @ 6:00E 9 STNS L 1S Tx @ 6:00E 4 STNS <u>13 STNS.</u> MOTOR GENERATOR BREAKDOWN AT END OF DAY.	1 PROD							
MONDAY	11	DAY OFF	NO CHARGE							
TUESDAY	12	VLF L0, 1S SET UP NEXT SPREAD NEW MOTOR GENERATOR ARRIVES LATE AFTERNOON	1/4 PROD.							
WEDNESDAY	13	L 1S Tx @ 6:00E 5 STNS. L 0 Tx @ 3:00E 12 STNS <u>17 STNS</u> VLF L1N, L2N.	1 PROD.							
THURSDAY	14	L0 Tx @ 3:00E 4 STNS. L 1N Tx @ 3:00E 12 STNS <u>16 STNS</u>	1 PROD.							
FRIDAY	15	L 1N Tx @ 3:00E 4 STNS. L 2N Tx @ 3:00E 16 STNS <u>20 STNS</u>	1 PROD							
SATURDAY	16	L 4N Tx @ 3:00E 3 STNS. RADIO AND IPR 7 PROBLEMS. LOST HALFDAY • LATE START READING IP DUE TO PROBLEMS DIFFICULTIES ENCOUNTERED LAYING OUT SPREAD	1 1/2 PROD.							

NOTES: _____

PARTY MANAGER: *[Signature]*

SECTIONAL WEEKLY PRODUCTION REPORT

CLIENT: HOME STAKE PROJECT NO.: 85-935 TYPE OF SURVEY: JP

JULY	DATE	PRODUCTION	SURVEY CHARGES	BILLABLE						
				CREW SIZE	LABOUR COST	VEHICLE RENTAL	VEHICLE MILEAGE	GAS & OIL	LIVING EXPENSES	MISCELLAN EXPENS
SUNDAY	17	L4N Tx @ 300E 13 STNS VERY NOISY VLF L7S, L5S, L3S, L2S.	1 PROD.							
MONDAY	18	L6N Tx @ 300E 16 STNS. L4N VLF L4N, PART OF L8N.	1 PROD.							
TUESDAY	19	L8N Tx @ 300E 16 STNS VLF L6N, PART OF L8N.	1 PROD.							
WEDNESDAY	20	DEMOB TO SANDSPIT	DEMOB.						SANDSPIT 10N \$100.70.	
THURSDAY	21	DEMOB TO VICTORIA	DEMOB.						BREAKFAST \$13.00	AIRCARGO VAN → QC RTN. 315 Kg \$434.70
FRIDAY										
SATURDAY										

NOTES: TOTALS: 12 1/2 DAYS PROD., 1/4 DAY STANDBY.

PARTY MANAGER: A. Wardlaw.

APPENDIX II
Geoterrex Limited
Interpretation Report

INTERPRETATION REPORT

ON AN

INDUCED POLARIZATION/RESISTIVITY, VLF SURVEY

CONDUCTED BY

GEOTERREX LIMITED

ON BEHALF OF

HOMESTAKE MINERAL DEVELOPMENT COMPANY

IN THE

QUEEN CHARLOTTE ISLANDS, BRITISH COLUMBIA

AUGUST 1983

85-935

S. WARDLAW

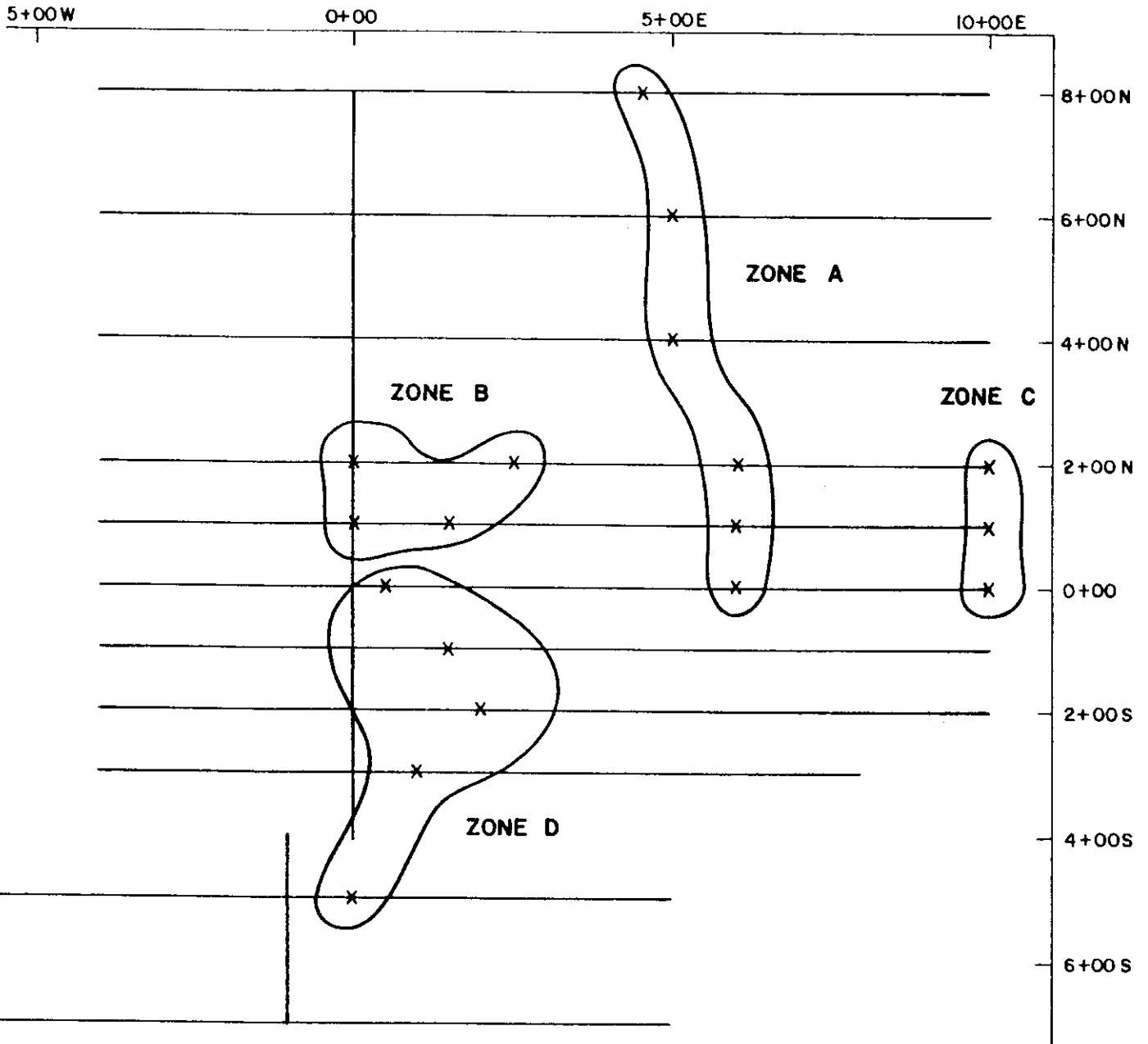
INTRODUCTION

This report consists of an interpretation of the induced polarization/resistivity and VLF data acquired by Geoterrex Limited on behalf of Homestake Mineral Development Company on the Inconspicuous grid in the Queen Charlotte Islands region of British Columbia. A logistics report was delivered previously with all the pertinent information related to the data acquisition stage of this project.

The interpretation presented here is somewhat limited in its scope due to the unavailability of geological and/or other relevant information which could be used in conjunction with the geophysical data. The major aim of this report is to identify any anomalous geophysical responses and give a qualitative description of a feasible source for such a response. In the body of the report the various responses have been grouped into a number of zones which are then dealt with individually (see enclosed grid map).

INCONSPICUOUS GRID SHOWING IP ANOMALIES

(Fig. 1)



X - CENTRE OF IP ANOMALIES

Zone A

This zone occurs in the northeast portion of the grid running from L8+00N at 4+50E to L0+00 at 6+00E. The response to this zone is most evident on Lines 8+00N, 6+00N and 4+00N. On Line 2+00N, 1+00N and 0+00 the response is somewhat more complex due to interference from Zone B and Zone D. However, on all these lines the response indicates a near surface feature (less than 50 metres depth) with a width between 50 and 100 metres.

In the four southernmost lines the body appears to be dipping to the east whereas it appears near vertical on Line 6+00N and seems to be dipping to the west on Line 8+00N. It should be pointed out at this stage that dip interpretations in IP data are questionable at best as the shape of the anomaly depends not only on the dip but on the position of the body with respect to the station locations.

Neither the resistivity nor the VLF response of this body is very helpful in the interpretation. There does however appear to be a zone of high resistivity running consistently 50 to 100 metres to the west of the chargeability anomaly. It is difficult to say whether this is a direct response to the body or is related to some geological feature.

Zone B

This is a small zone occurring just to the east of the baseline on Lines 2+00N and 1+00N. The chargeability response here indicates two distinct bodies separated by roughly 200 metres. On Line 2+00N they appear to be centred at 0+00 and 2+50E while on Line 1+00N they appear to be at 0+00 and 1+50E. The shape of the response suggests that both

bodies are at depths less than 50 metres probably dipping to the west. The interference between the responses of the two bodies makes any sort of a width determination difficult in this case.

For this zone there does appear to an associated low resistivity zone, more noticeably for the westernmost of the two bodies. This could indicate the presence of conductive material associated with the chargeable zone.

Once again the VLF does not give any response at the location.

Zone C

It is questionable whether or not this area can be designated as a zone. It occurs at the far eastern end of Lines 0+00 to 2+00N and shows a strong presence only on Line 0+00. On this line the IP response suggests a chargeable body centred at 10+00E. Unfortunately, as this zone occurs at the extreme end of the line there is not enough data to say anything more definitive. The zone was tentatively extended to include Lines 1+00N and 2+00N solely on the basis of the data showing similar trends. However, this is somewhat of a conjecture as once again there is not enough data points at the end of the line to extract any useful information. As with Zone A the resistivity and VLF data are not helpful here either.

Zone D

This zone occurs in the southern portion of the grid just to the east of the baseline. On Lines 1+00S and 2+00S the chargeable response appears as a broad zone roughly 300 metres wide centred at 1+50E and

2+00E respectively. On Lines 0+00, 3+00S and 5+00S it narrows to roughly 100 metres and shifts westward. The central response for these lines is at+50E, 1+00E and 1+00E respectively. However, a 100 metre baseline shift between lines 3+00S and 5+00S means that the position on Line 5+00S is actually west of the position on Line 3+00S.

Although the data on Lines 1+00S and 2+00S appear to suggest a broad flat lying body there is some possibility that the response is actually caused by two bodies. Unfortunately, if this is the case there is not enough contrast between the two to clearly distinguish them in the IP data. It is possible then that the narrower responses seen on Lines 3+00S and 5+00S are actually the responses of one of the two bodies causing the broad response to the north. One would have to assume that the second body had simply disappeared.

A simpler explanation would be that the responses in Zone D are due to a chargeable rock unit of some sort which has been squeezed between Line 2+00S and 3+00S.

VLF Data

As indicated in the previous discussion, the VLF data does not show any correspondence to the IP data. The area is basically electromagnetically flat. However, there is one response which occurs in the northeast corner of the grid. It appears on Line 5+00N at 8+30E, on Line 6+00N at 7+20E and on Line 4+00N at 5+30E. The response on Line 4+00N suggests a very weak conductor and is in approximately the same position as the weak IP conductor of Zone A. This would appear to be just coincidence as there is no VLF response on the other

lines where Zone A appears.

The VLF response is best on Line 6+00N, indicating a moderate conductor but the weak response on the two adjacent lines and the lack of IP response suggest that it is of little interest.

SUMMARY

The induced polarization method proved successful in this survey identifying a number of zones worthy of further investigation. The VLF survey on the other hand did not produce any anomalies which we could consider of interest. This however does not detract from the potential of the IP anomalies as it is quite possible to have a disseminated sulphide zone produce an IP response but no EM response.

As a whole the data was of very high quality, an achievement worth noting in consideration of the difficult terrain and consistently wet weather. In some cases, though, the chosen receiver, the Scintrex IPR-7 could not produce the data required for the best interpretation. In areas of high noise the IPR-7 loses data due to its lack of noise rejection capabilities. Furthermore, where subtle anomalies are involved (as in Zone D) the IPR-7 lacks the resolution to give the precision required to solve the true shape of the anomaly. If similar surveys are being considered for the future some thought should be given to using the Huntex M-4 receiver as an alternative.

S. WARDLAW

Geophysicist

APPENDIX III

Geoterrex Limited

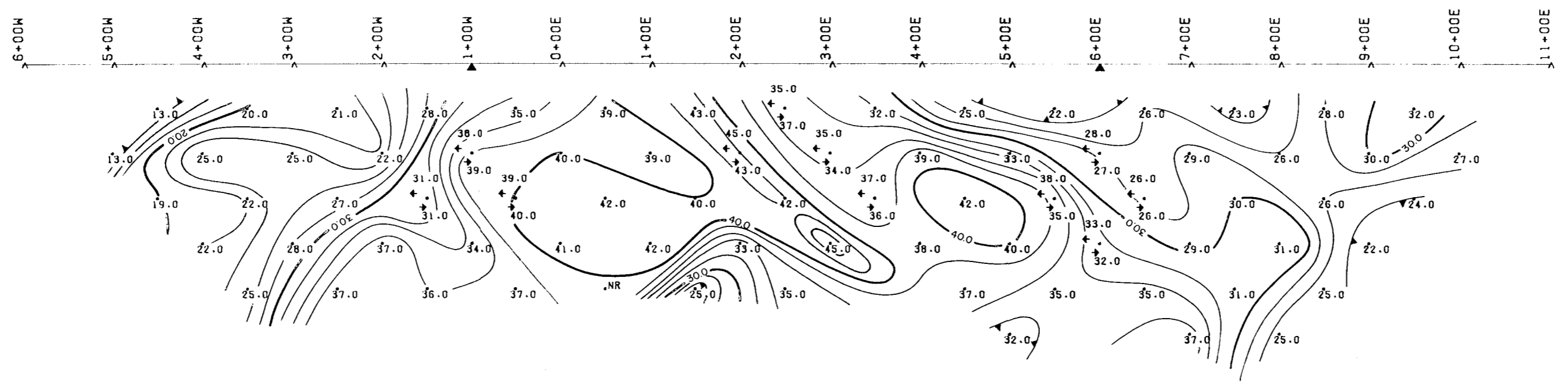
Induced Polarization Profiles

VLF Profiles

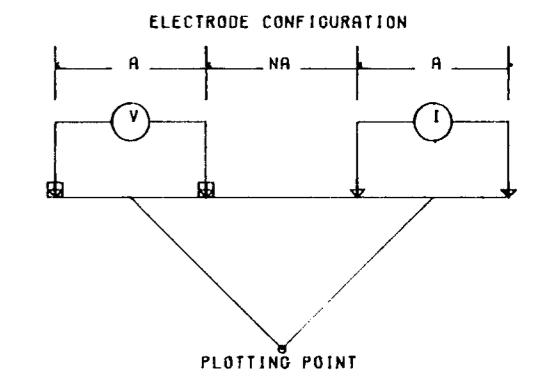
INDUCED POLARIZATION
SURVEY

DIPOLE - DIPOLE ARRAY

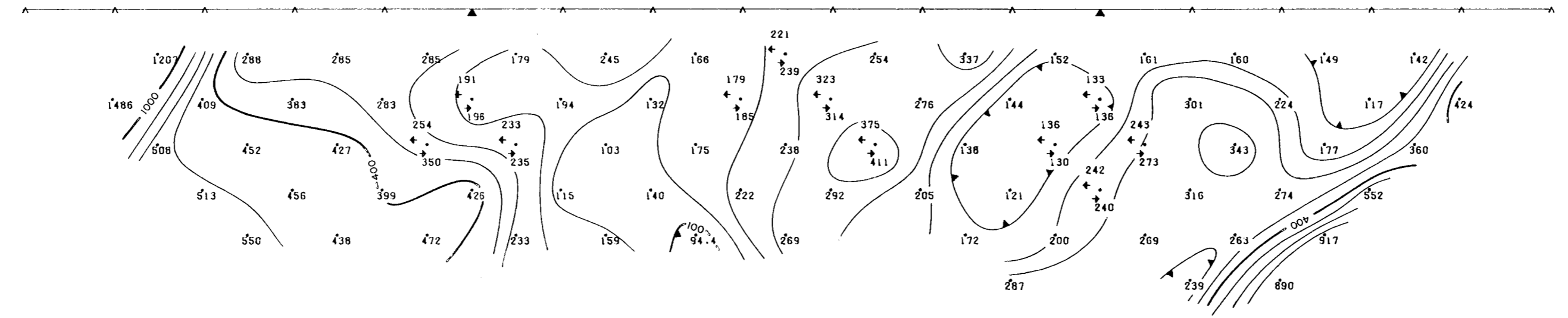
CHARGEABILITY MEASURED PER PULSE



APPARENT CHARGEABILITY (MSEC)



CHARGEABILITY CONTOUR INTERVAL
2 MSEC
RESISTIVITY CONTOUR INTERVAL
10, 15, 20, 25, 32, 40, 50, 65, 80, 100



APPARENT RESISTIVITY (OHM-M)

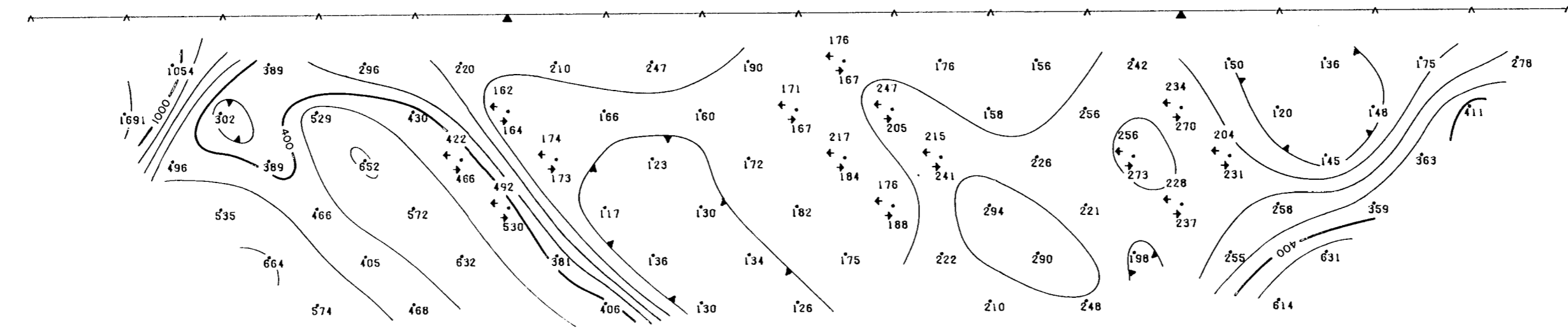
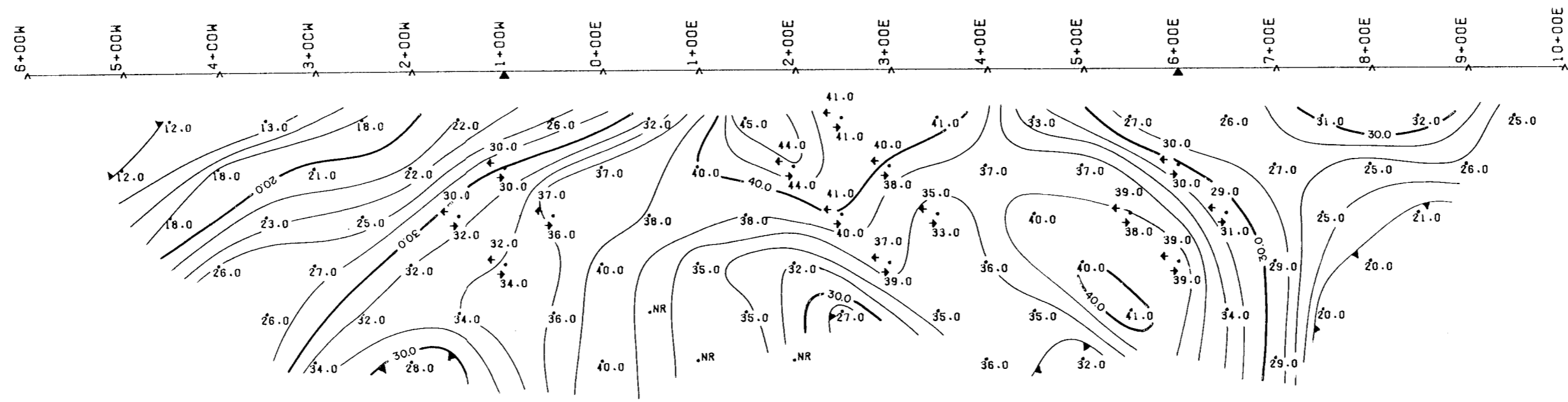
12208

DIPOLE LENGTH : 100M
TIME SEQUENCE : 2SECS ON/2SECS OFF
INTEGRATION TIME : 470 TO 1100MSECS
TRANSMITTER TYPE : ELLIOT 1.5KW
RECEIVER TYPE : SCINTREX IPR-7
HORIZONTAL SCALE : 1:5000
VERTICAL SCALE : 1:5000
SURVEYED BY : SW
DATE : JULY 10 / 1983

	SURVEYED & COMPILED BY	PROJECT NO.
	GEOTREX LTD.	85-935

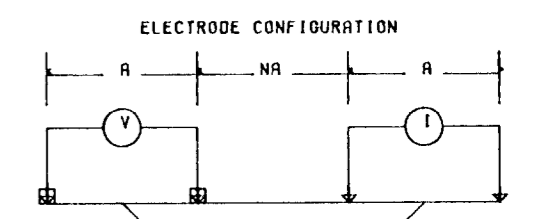
CLIENT : HOMESTAKE MINERAL DEV. CO.
PROJECT : INCONSPICUOUS GRID
AREA : QUEEN CHARLOTTE ISLANDS
GRID : INCONSPICUOUS
LINE : 1+00S

INDUCED POLARIZATION
 SURVEY
 DIPOLE - DIPOLE ARRAY
 CHARGEABILITY MEASURED PER PULSE



APPARENT CHARGEABILITY (MSEC)

APPARENT RESISTIVITY (OHM-M)



CHARGEABILITY CONTOUR INTERVAL
 2 MSEC
 RESISTIVITY CONTOUR INTERVAL
 10, 15, 20, 25, 32, 40, 50, 65, 80, 100

12208

DIPOLE LENGTH : 100M
 TIME SEQUENCE : 2SECS ON/2SECS OFF
 INTEGRATION TIME : 470 TO 1100MSECS
 TRANSMITTER TYPE : ELLIOT 1.5KW
 RECEIVER TYPE : SCINTREX IPR-7
 HORIZONTAL SCALE : 1:5000
 VERTICAL SCALE : 1:5000
 SURVEYED BY : SW
 DATE : JULY 10 / 1983

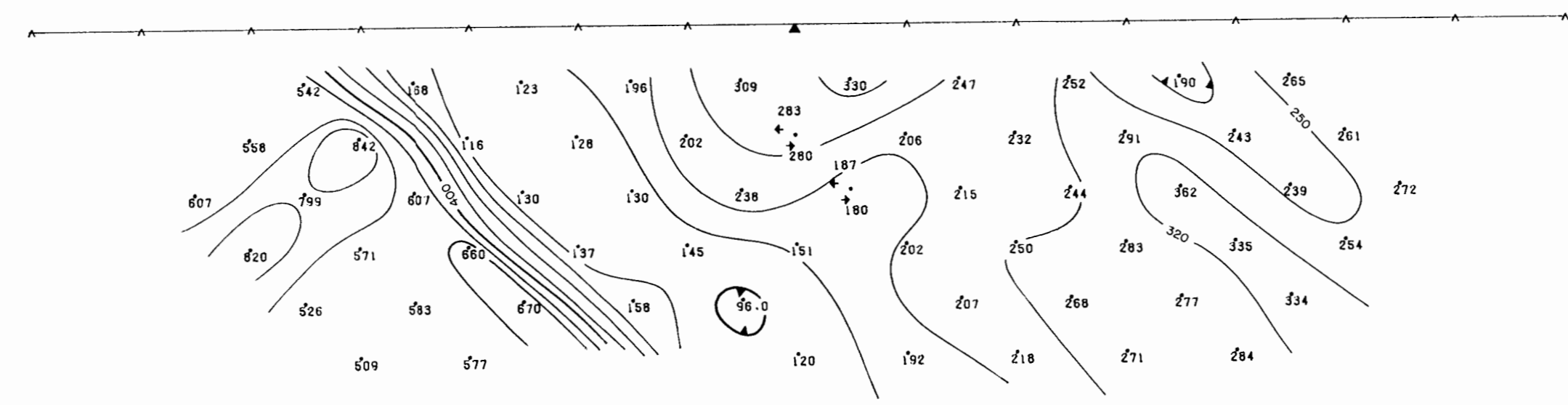
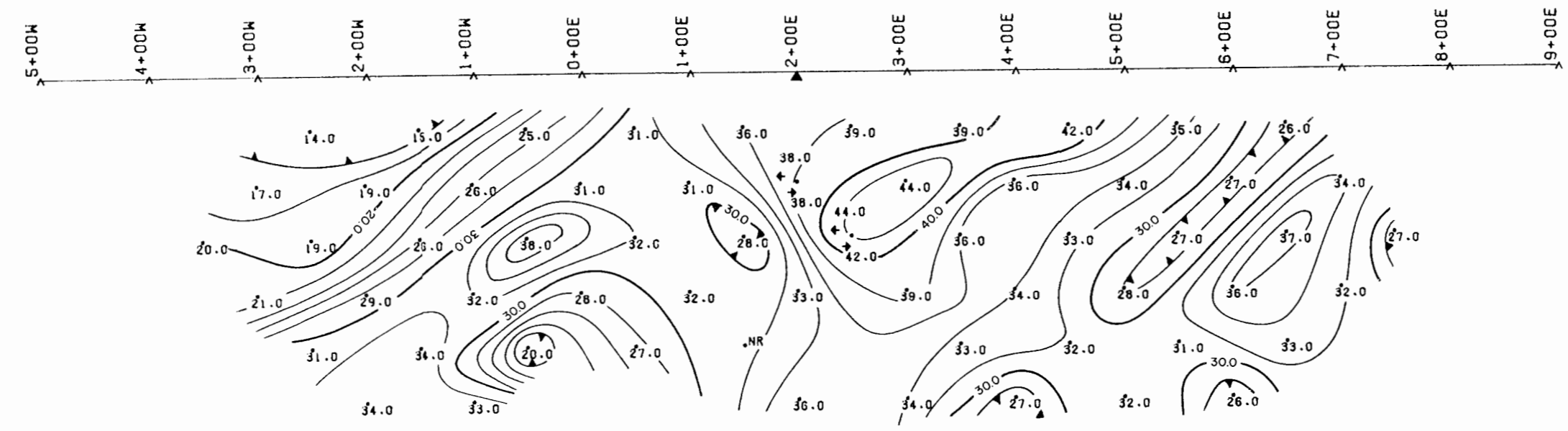
	SURVEYED & COMPILED BY	PROJECT NO.
	GEOTREX LTD.	85-935

CLIENT : HOMESTAKE MINERAL DEV. CO.
 PROJECT : INCONSPICUOUS GRID
 AREA : QUEEN CHARLOTTE ISLANDS
 GRID : INCONSPICUOUS
 LINE : 2+00S

INDUCED POLARIZATION
SURVEY

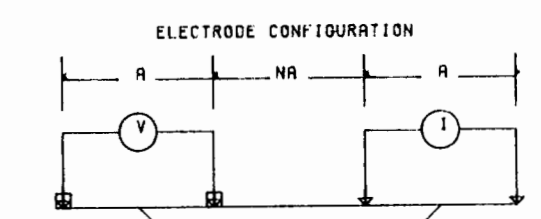
DIPOLE - DIPOLE ARRAY

CHARGEABILITY MEASURED PER PULSE



APPARENT CHARGEABILITY (MSEC)

APPARENT RESISTIVITY (OHM-M)



ELECTRODE CONFIGURATION

PLOTTING POINT

CHARGEABILITY CONTOUR INTERVAL
2 MSEC

RESISTIVITY CONTOUR INTERVAL
10, 15, 20, 25, 32, 40, 50, 65, 80, 100

12208

DIPOLE LENGTH : 100M
 TIME SEQUENCE : 2SECS ON/2SECS OFF
 INTEGRATION TIME : 470 TO 1100MSECS
 TRANSMITTER TYPE : ELLIOT 1.5KW
 RECEIVER TYPE : SCINTREX IPR-7
 HORIZONTAL SCALE : 1:5000
 VERTICAL SCALE : 1:5000
 SURVEYED BY : VH
 DATE : JULY 7 / 1983

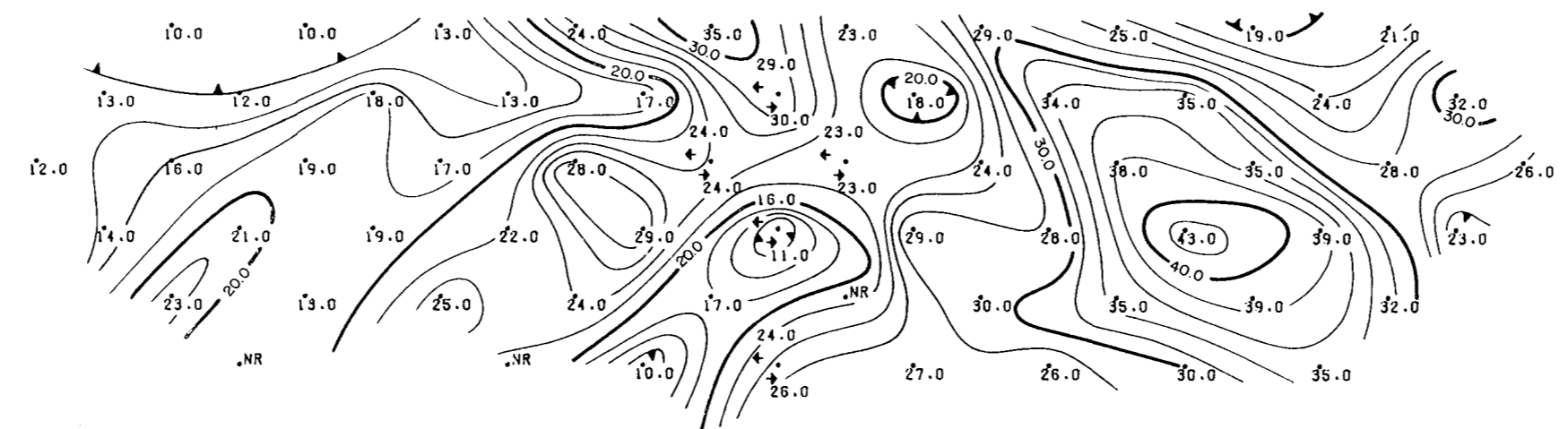
SURVEYED & COMPILED BY GEOTERREX LTD.	PROJECT NO. 85-935
--	-----------------------

CLIENT : HOMESTAKE MINERAL DEV. CO.
 PROJECT : INCONSPICUOUS GRID
 AREA : QUEEN CHARLOTTE ISLANDS
 GRID : INCONSPICUOUS
 LINE : 3+00S

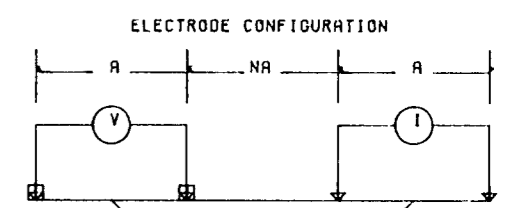
INDUCED POLARIZATION
SURVEY
DIPOLE - DIPOLE ARRAY
CHARGEABILITY MEASURED PER PULSE

7+00M 6+00M 5+00M 4+00M 3+00M 2+00M 1+00M 0+00E 1+00E 2+00E 3+00E 4+00E 5+00E 6+00E 7+00E

N=1
N=2
N=3
N=4
N=5
N=6



APPARENT CHARGEABILITY (MSEC)

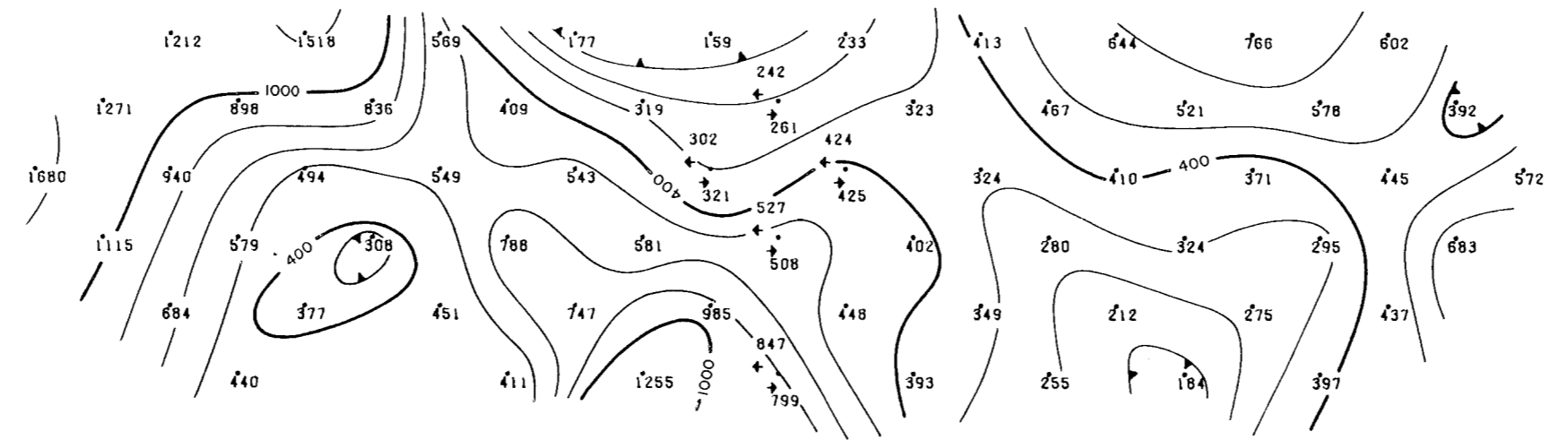


PLOTTING POINT

CHARGEABILITY CONTOUR INTERVAL
2 MSEC
RESISTIVITY CONTOUR INTERVAL
10, 15, 20, 25, 32, 40, 50, 65, 80, 100

12208

N=1
N=2
N=3
N=4
N=5
N=6



APPARENT RESISTIVITY (OHM-M)

DIPOLE LENGTH : 100M
TIME SEQUENCE : 2SECS ON/2SECS OFF
INTEGRATION TIME : 470 TO 1100MSECS
TRANSMITTER TYPE : ELLIOT 1.5KW
RECEIVER TYPE : SCINTREX IPR-7
HORIZONTAL SCALE : 1:5000
VERTICAL SCALE : 1:5000
SURVEYED BY : SW
DATE : JULY 8 / 1983

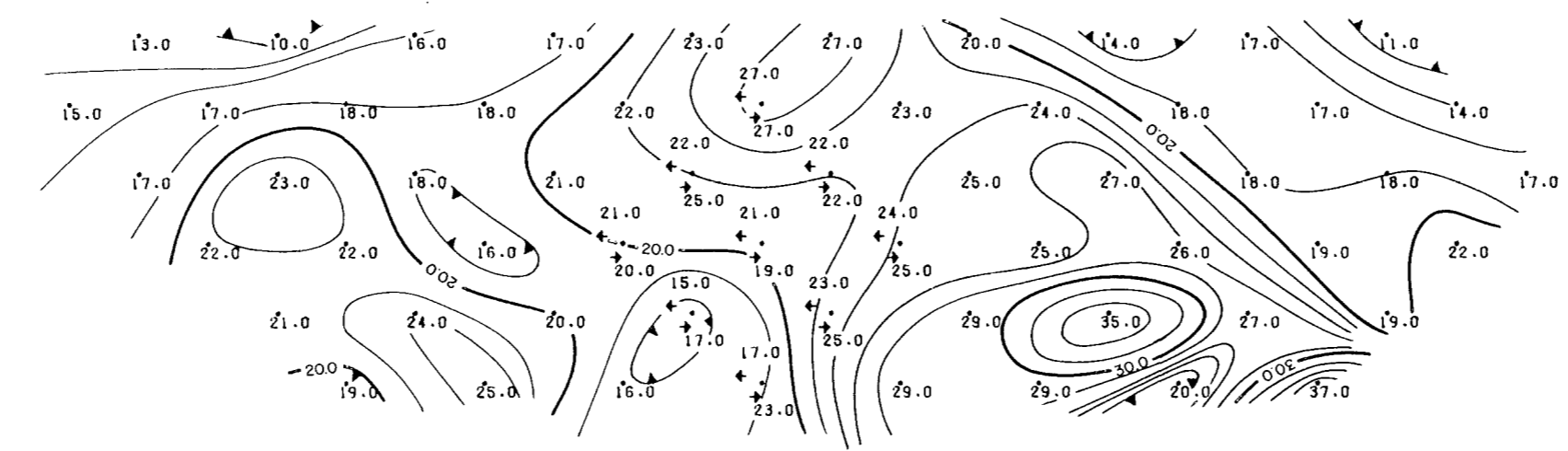
	SURVEYED & COMPILED BY	PROJECT NO.
	GEOTERREX LTD.	85-935

CLIENT : HOMESTAKE MINERAL DEV. CO.
PROJECT : INCONSPICUOUS GRID
AREA : QUEEN CHARLOTTE ISLANDS
GRID : INCONSPICUOUS
LINE : 5+00S

INDUCED POLARIZATION
 SURVEY
 DIPOLE - DIPOLE ARRAY
 CHARGEABILITY MEASURED PER PULSE

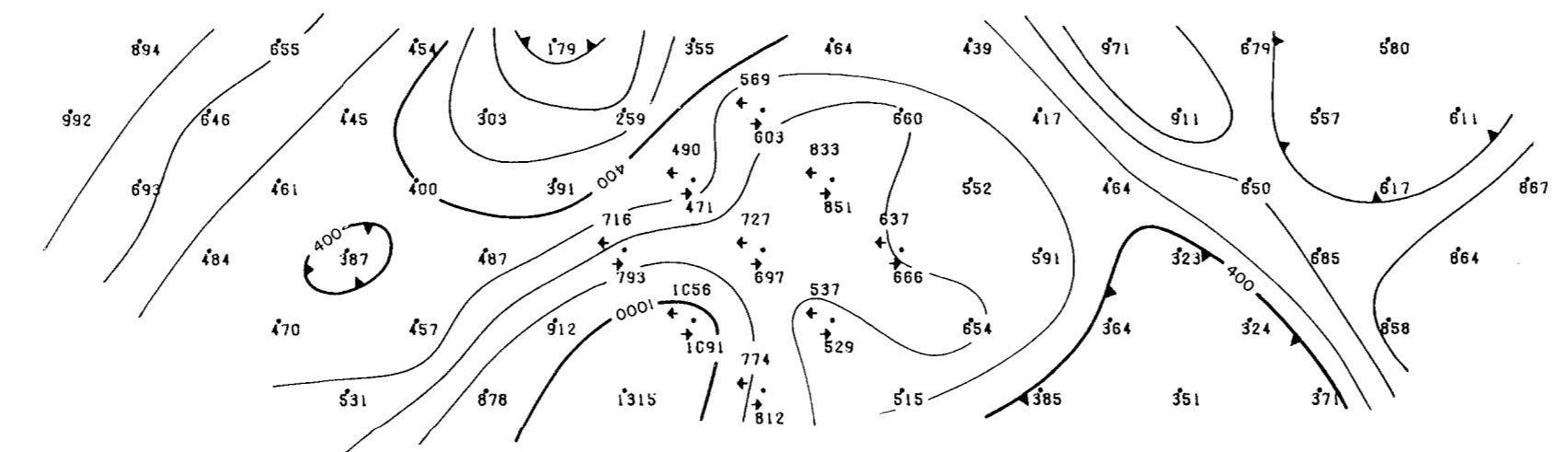
6+00M 5+00M 4+00M 3+00M 2+00M 1+00M 0+00E 1+00E 2+00E 3+00E 4+00E 5+00E 6+00E 7+00E

N=1
 N=2
 N=3
 N=4
 N=5
 N=6



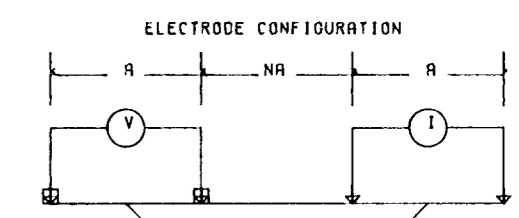
6+00M 5+00M 4+00M 3+00M 2+00M 1+00M 0+00E 1+00E 2+00E 3+00E 4+00E 5+00E 6+00E 7+00E

N=1
 N=2
 N=3
 N=4
 N=5
 N=6



APPARENT CHARGEABILITY (MSEC)

APPARENT RESISTIVITY (OHM-M)



CHARGEABILITY CONTOUR INTERVAL
 2 MSEC
 RESISTIVITY CONTOUR INTERVAL
 10. 15. 20. 25. 32. 40. 50. 65. 80. 100

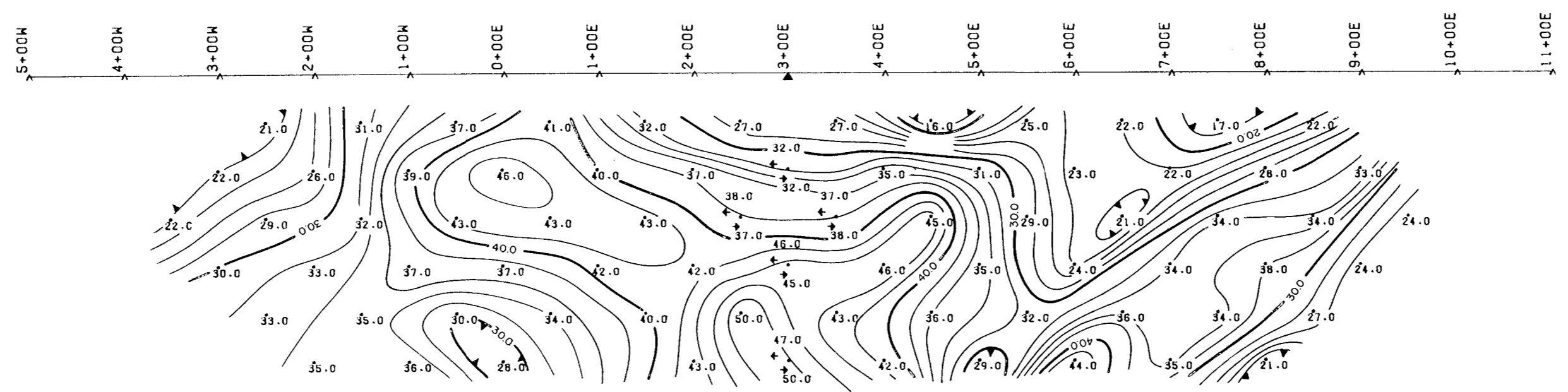
12208

DIPOLE LENGTH : 100M
 TIME SEQUENCE : 2SECS ON/2SECS OFF
 INTEGRATION TIME : 470 TO 1100MSECS
 TRANSMITTER TYPE : ELLIOT 1.5KW
 RECEIVER TYPE : SCINTREX IPR-7
 HORIZONTAL SCALE : 1:5000
 VERTICAL SCALE : 1:5000
 SURVEYED BY : VH
 DATE : JULY 9 / 1983

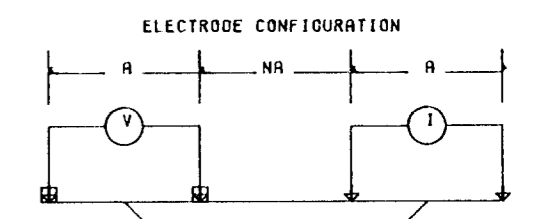
	SURVEYED & COMPILED BY GEOTERREX LTD.	PROJECT NO. 85-935
--	--	-----------------------

CLIENT : HOMESTAKE MINERAL DEV. CO.
 PROJECT : INCONSPICUOUS GRID
 AREA : QUEEN CHARLOTTE ISLANDS
 GRID : INCONSPICUOUS
 LINE : 7+00S

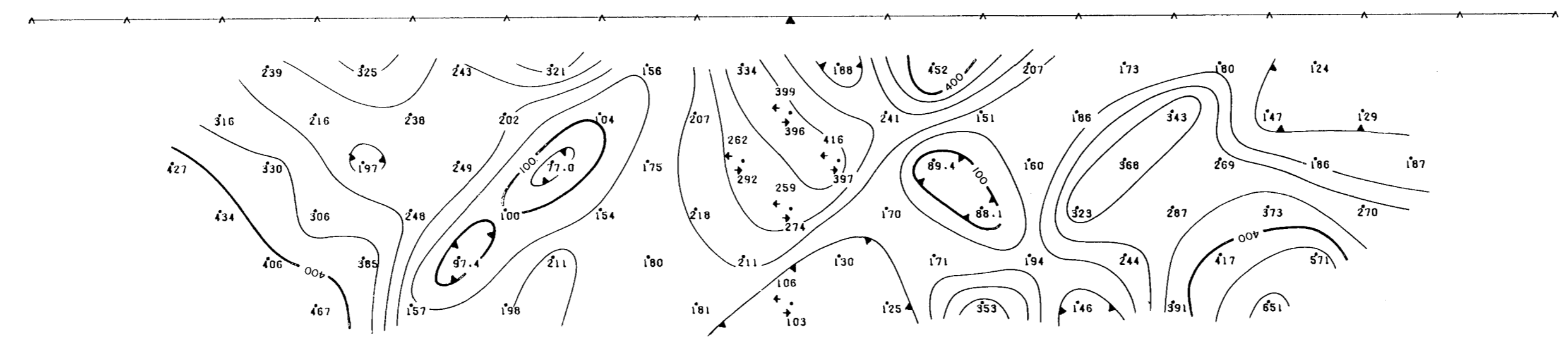
INDUCED POLARIZATION
 SURVEY
 DIPOLE - DIPOLE ARRAY
 CHARGEABILITY MEASURED PER PULSE



APPARENT CHARGEABILITY (MSEC)



PLOTTING POINT
 CHARGEABILITY CONTOUR INTERVAL
 2 MSEC
 RESISTIVITY CONTOUR INTERVAL
 10, 15, 20, 25, 32, 40, 50, 65, 80, 100



APPARENT RESISTIVITY (OHM-M)

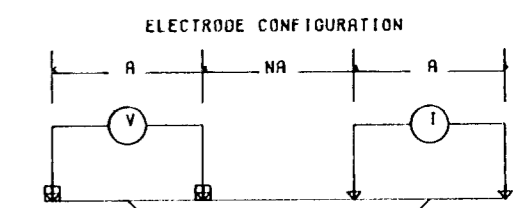
12208

DIPOLE LENGTH : 100M
 TIME SEQUENCE : 2SECS ON/2SECS OFF
 INTEGRATION TIME : 470 TO 1100MSECS
 TRANSMITTER TYPE : ELLIOT 1.5KW
 RECEIVER TYPE : SCINTREX IPR-7
 HORIZONTAL SCALE : 1:5000
 VERTICAL SCALE : 1:5000
 SURVEYED BY : SW
 DATE : JULY 13 / 1983

SURVEYED & COMPILED BY GEOTERREX LTD.	PROJECT NO. 85-935
--	-----------------------

CLIENT : HOMESTAKE MINERAL DEV. CO.
 PROJECT : INCONSPICUOUS GRID
 AREA : QUEEN CHARLOTTE ISLANDS
 GRID : INCONSPICUOUS
 LINE : 0+00N

INDUCED POLARIZATION
 SURVEY
 DIPOLE - DIPOLE ARRAY
 CHARGEABILITY MEASURED PER PULSE



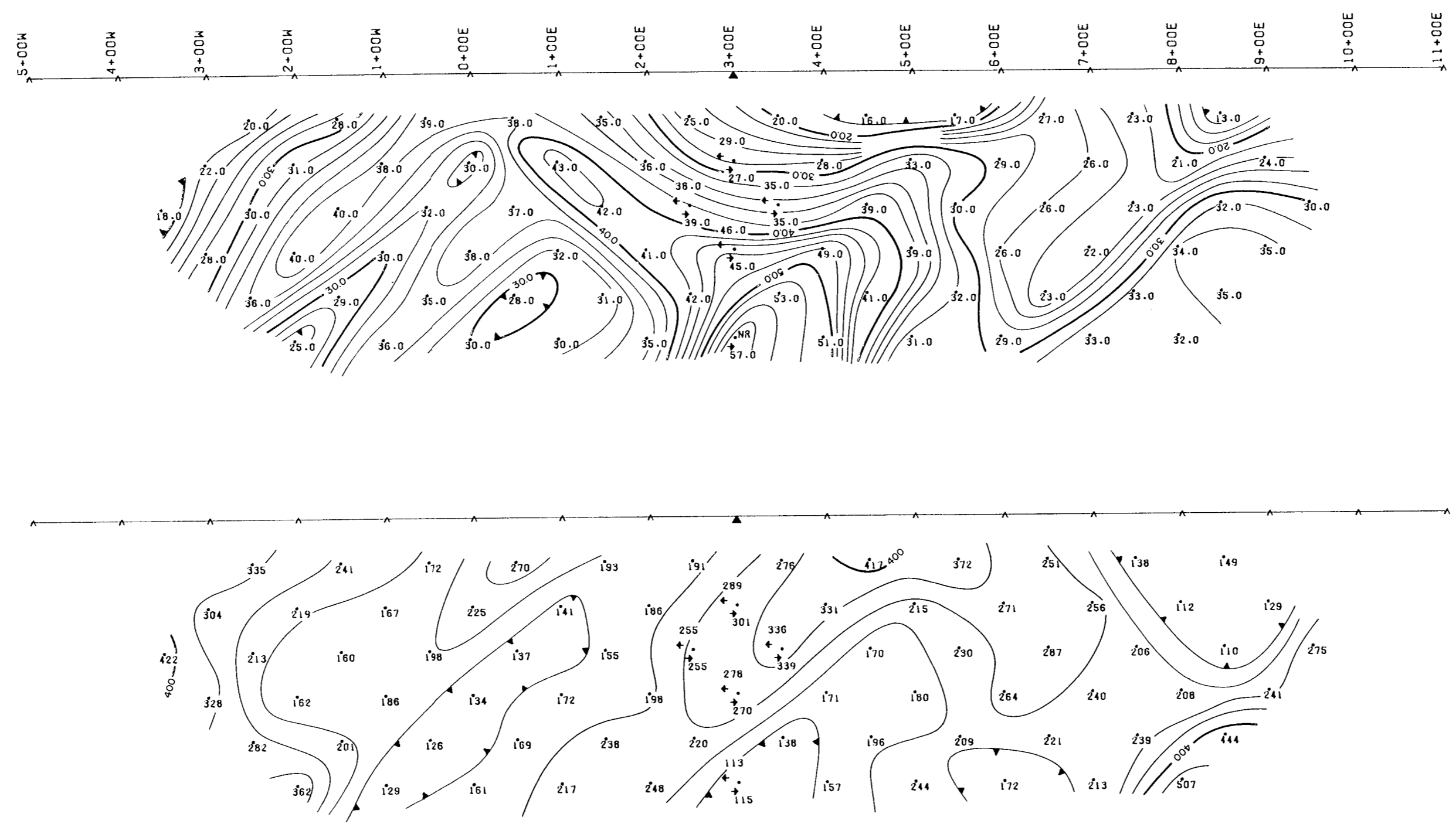
CHARGEABILITY CONTOUR INTERVAL
 2 MSEC
 RESISTIVITY CONTOUR INTERVAL
 10. 15. 20. 25. 32. 40. 50. 65. 80. 100

12208

DIPOLE LENGTH : 100M
 TIME SEQUENCE : 2SECS ON/2SECS OFF
 INTEGRATION TIME : 470 TO 1100MSECS
 TRANSMITTER TYPE : ELLIOT 1.5KW
 RECEIVER TYPE : SCINTREX IPR-7
 HORIZONTAL SCALE : 1:5000
 VERTICAL SCALE : 1:5000
 SURVEYED BY : SW
 DATE : JULY 14 / 1983

	SURVEYED & COMPILED BY	PROJECT NO.
	GEOTERREX LTD.	85-935

CLIENT : HOMESTAKE MINERAL DEV. CO.
 PROJECT : INCONSPICUOUS GRID
 AREA : QUEEN CHARLOTTE ISLANDS
 GRID : INCONSPICUOUS
 LINE : 1+00N



N=1
 N=2
 N=3
 N=4
 N=5
 N=6

 N=1
 N=2
 N=3
 N=4
 N=5
 N=6

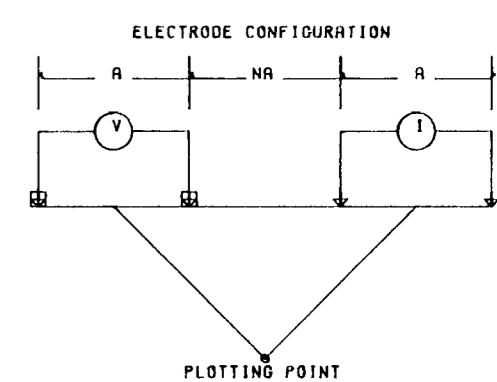
APPARENT CHARGEABILITY (MSEC)
 APPARENT RESISTIVITY (OHM-M)

INDUCED POLARIZATION
SURVEY

DIPOLE - DIPOLE ARRAY

CHARGEABILITY MEASURED PER PULSE

APPARENT CHARGEABILITY (MSEC)

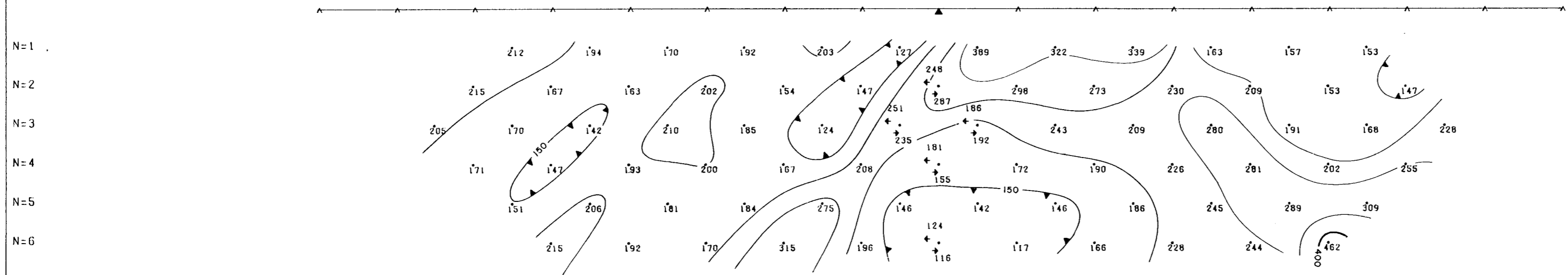
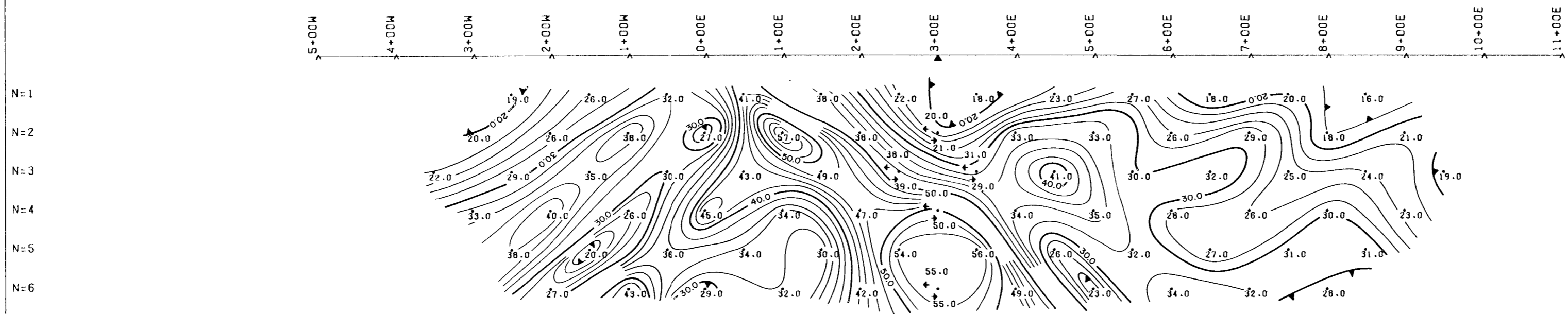


12208

DIPOLE LENGTH : 100M
TIME SEQUENCE : 2SECS ON/2SECS OFF
INTEGRATION TIME : 470 TO 1100MSECS
TRANSMITTER TYPE : ELLIOT 1.5KW
RECEIVER TYPE : SCINTREX IPR-7
HORIZONTAL SCALE : 1:5000
VERTICAL SCALE : 1:5000
SURVEYED BY : SW
DATE : JULY 15 / 1983

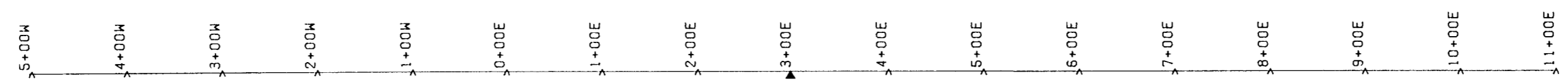
	SURVEYED & COMPILED BY	PROJECT NO.
	GEOTERREX LTD.	85-935

CLIENT : HOMESTAKE MINERAL DEV. CO.
PROJECT : INCONSPICUOUS GRID
AREA : QUEEN CHARLOTTE ISLANDS
GRID : INCONSPICUOUS
LINE : 2+00N

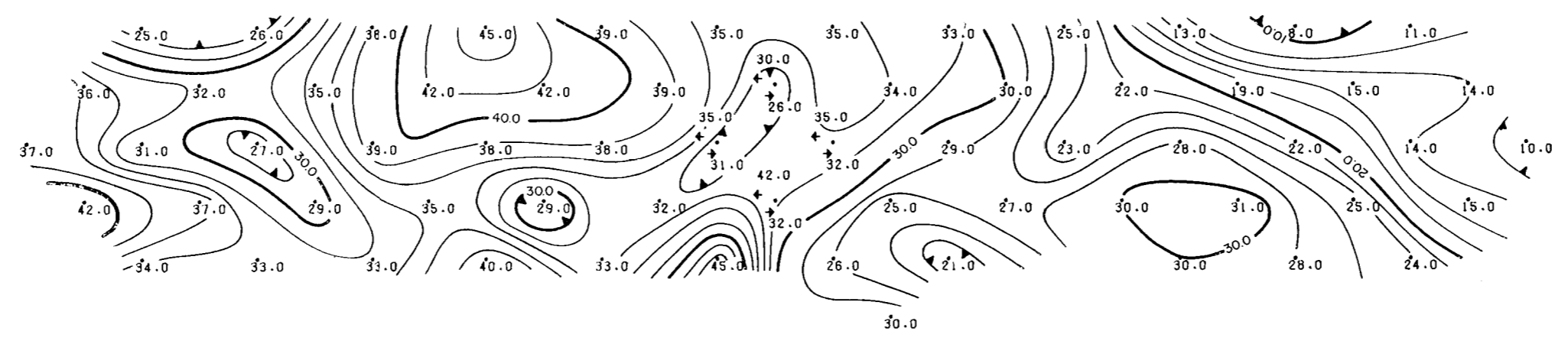


APPARENT RESISTIVITY (OHM-M)

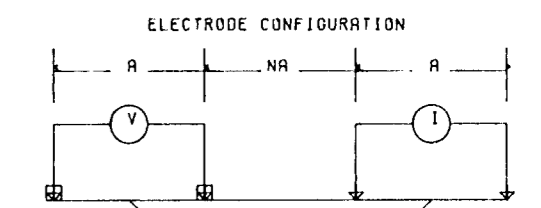
INDUCED POLARIZATION
 SURVEY
 DIPOLE - DIPOLE ARRAY
 CHARGEABILITY MEASURED PER PULSE



N=1
 N=2
 N=3
 N=4
 N=5
 N=6



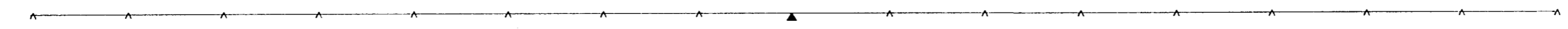
APPARENT CHARGEABILITY (MSEC)



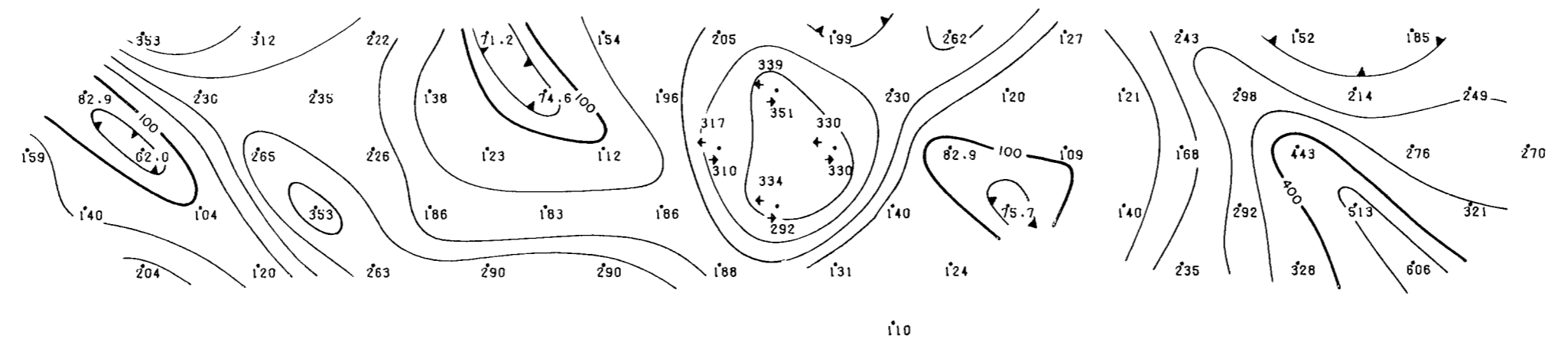
CHARGEABILITY CONTOUR INTERVAL
 2 MSEC
 RESISTIVITY CONTOUR INTERVAL
 10, 15, 20, 25, 32, 40, 50, 65, 80, 100

12208

DIPOLE LENGTH : 100M
 TIME SEQUENCE : 2SECS ON/2SECS OFF
 INTEGRATION TIME : 470 TO 1100MSECS
 TRANSMITTER TYPE : ELLIOT 1.5KW
 RECEIVER TYPE : SCINTREX IPR-7
 HORIZONTAL SCALE : 1:5000
 VERTICAL SCALE : 1:5000
 SURVEYED BY : SW
 DATE : JULY 17 / 1983



N=1
 N=2
 N=3
 N=4
 N=5
 N=6

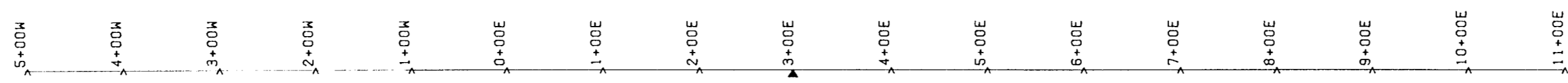


APPARENT RESISTIVITY (OHM-M)

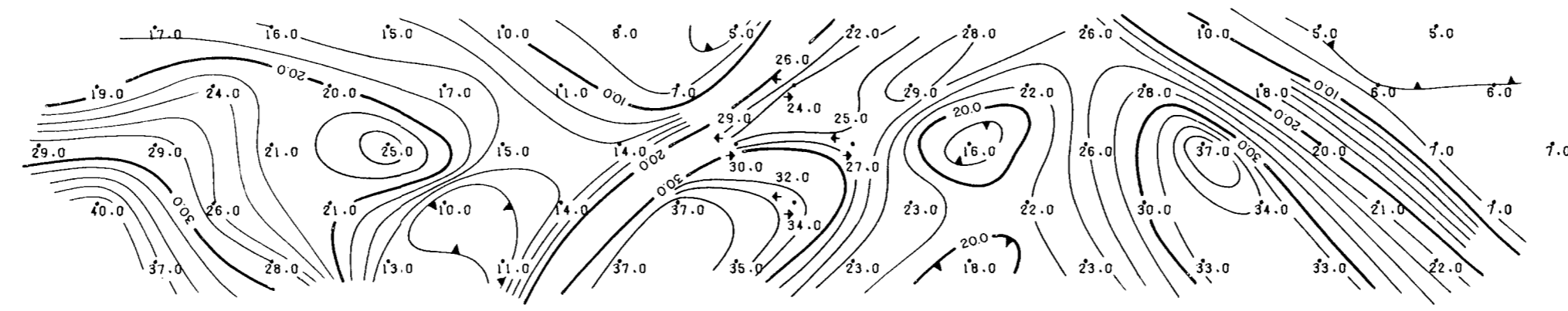
	SURVEYED & COMPILED BY	PROJECT NO.
	GEOTERREX LTD.	85-935

CLIENT : HOMESTAKE MINERAL DEV. CO.
 PROJECT : INCONSPICUOUS GRID
 AREA : QUEEN CHARLOTTE ISLANDS
 GRID : INCONSPICUOUS
 LINE : 4+00N

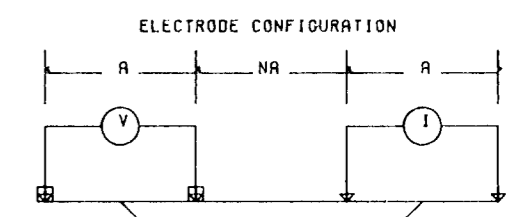
INDUCED POLARIZATION
SURVEY
DIPOLE - DIPOLE ARRAY
CHARGEABILITY MEASURED PER PULSE



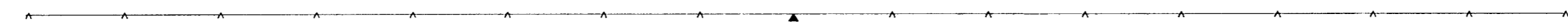
N=1
N=2
N=3
N=4
N=5
N=6



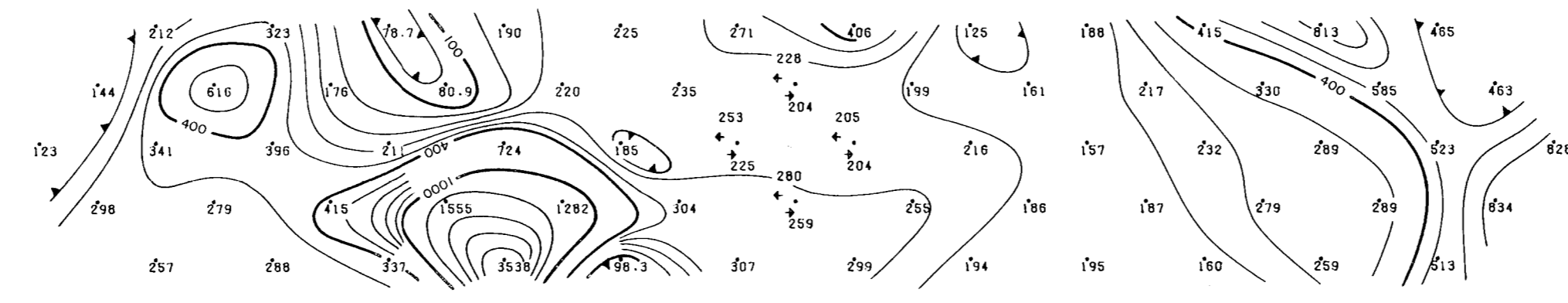
APPARENT CHARGEABILITY (MSEC)



CHARGEABILITY CONTOUR INTERVAL
2 MSEC
RESISTIVITY CONTOUR INTERVAL
10, 15, 20, 25, 32, 40, 50, 65, 80, 100



N=1
N=2
N=3
N=4
N=5
N=6



APPARENT RESISTIVITY (OHM-M)

12208

DIPOLE LENGTH : 100M
TIME SEQUENCE : 2SECS ON/2SECS OFF
INTEGRATION TIME : 470 TO 1100MSECS
TRANSMITTER TYPE : ELLIOT 1.5KW
RECEIVER TYPE : SCINTREX IPR-7 ()
HORIZONTAL SCALE : 1:5000
VERTICAL SCALE : 1:5000
SURVEYED BY : SW
DATE : JULY 18 / 1983

	SURVEYED & COMPILED BY	PROJECT NO.
	GEOTERREX LTD.	85-935

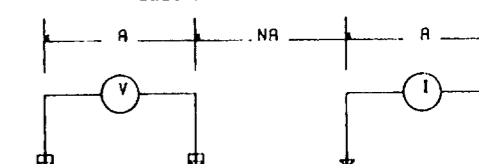
CLIENT : HOMESTAKE MINERAL DEV. CO.
PROJECT : INCONSPICUOUS GRID
AREA : QUEEN CHARLOTTE ISLANDS
GRID : INCONSPICUOUS
LINE : 6+00N

INDUCED POLARIZATION
SURVEY

DIPOLE - DIPOLE ARRAY

CHARGEABILITY MEASURED PER PULSE

ELECTRODE CONFIGURATION



PLOTTING POINT

CHARGEABILITY CONTOUR INTERVAL

2 MSEC

RESISTIVITY CONTOUR INTERVAL

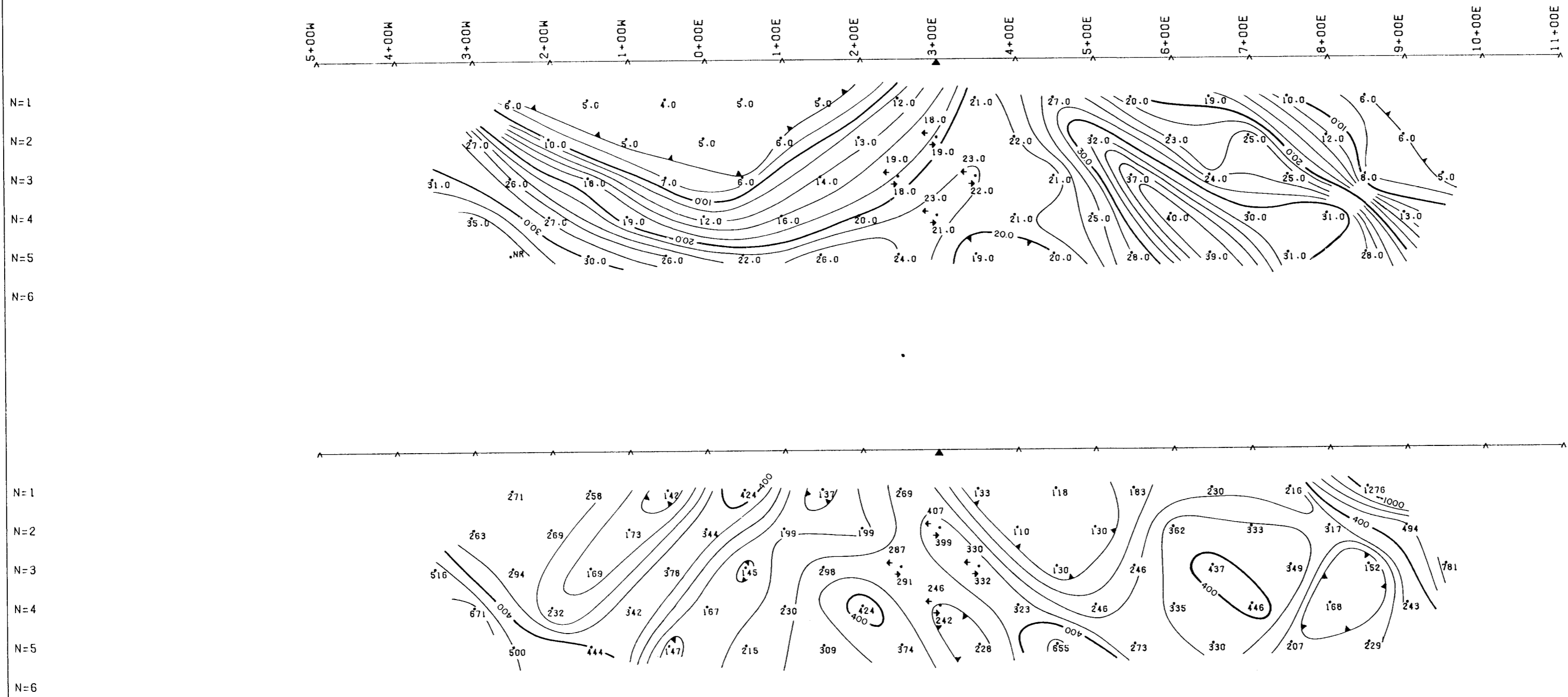
10, 15, 20, 25, 32, 40, 50, 65, 80, 100

12208

DIPOLE LENGTH : 100M
 TIME SEQUENCE : 2SECS ON/2SECS OFF
 INTEGRATION TIME : 470 TO 1100MSECS
 TRANSMITTER TYPE : ELLIOT 1.5KW
 RECEIVER TYPE : SCINTREX IPR-7
 HORIZONTAL SCALE : 1:5000
 VERTICAL SCALE : 1:5000
 SURVEYED BY : SW
 DATE : JULY 19 / 1983

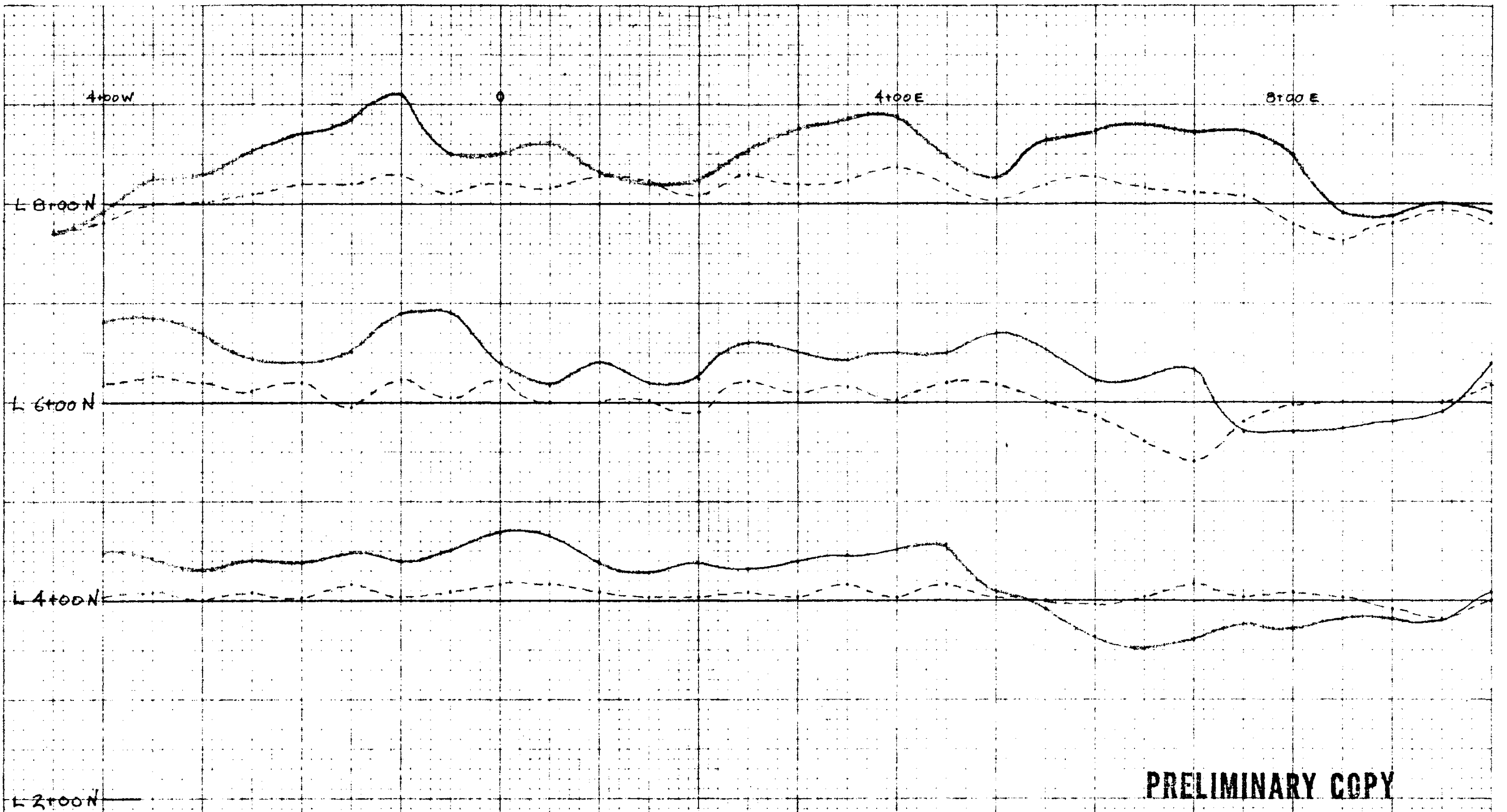
	SURVEYED & COMPILED BY	PROJECT NO.
	GEOTREX LTD.	85-935

CLIENT : HOMESTAKE MINERAL DEV. CO.
 PROJECT : INCONSPICUOUS GRID
 AREA : QUEEN CHARLOTTE ISLANDS
 GRID : INCONSPICUOUS
 LINE : 8+00N



APPARENT CHARGEABILITY (MSEC)

APPARENT RESISTIVITY (OHM-M)



L 200N

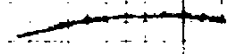
L 400N

L 600N

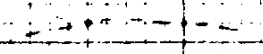
L 800N

STATION NAA, CUTLER, MAINE

DIP ANGLE




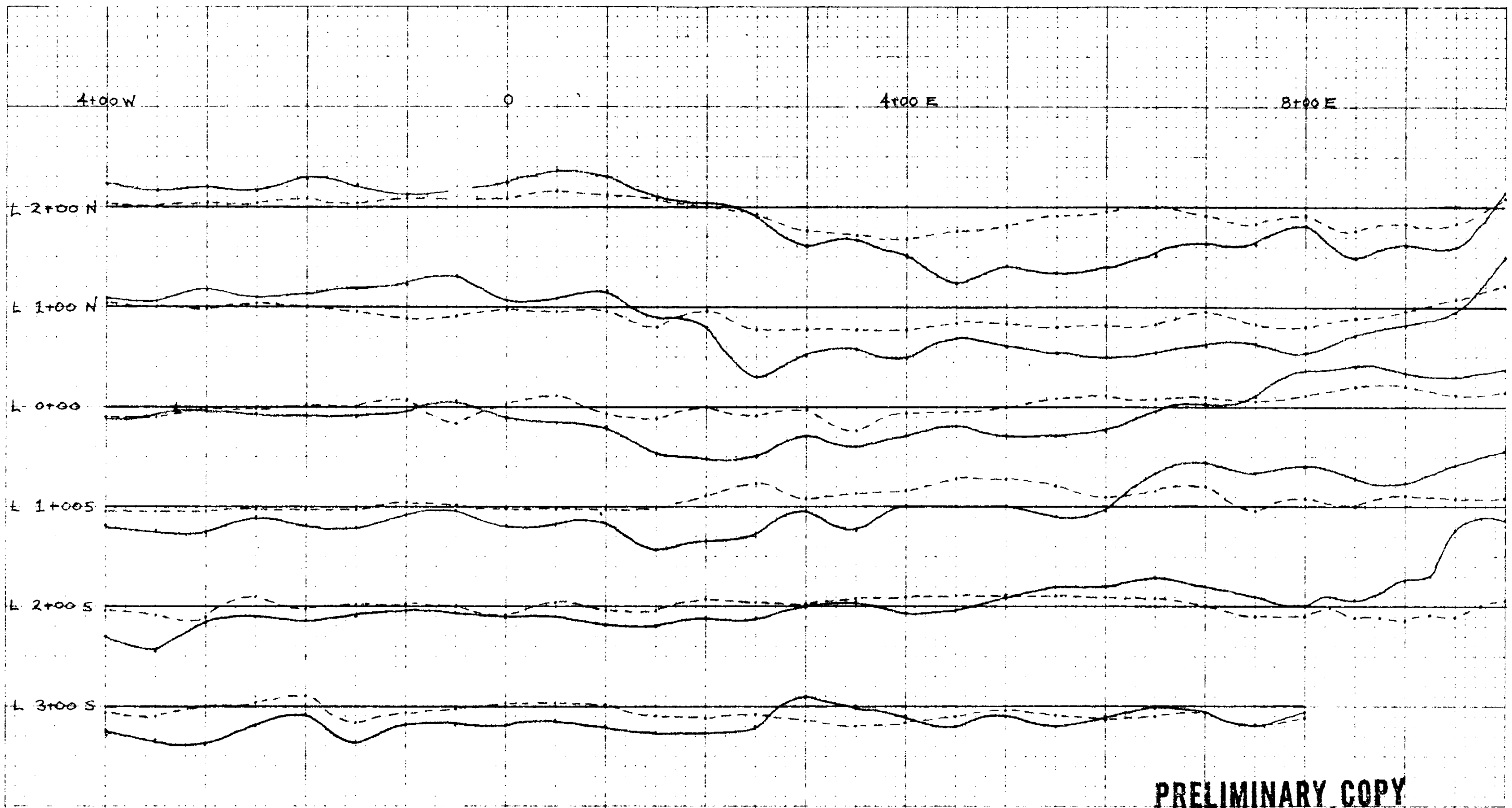
QUADRATURE



+20%
+10%
0
-10%
-20%

PRELIMINARY COPY

	SURVEYED & COMPILED BY geoterrax	HOMESTAKE MINERAL DEVELOPMENT CO.
	INCONSPICUOUS GRID - QUEEN CHARLOTTE ISLANDS	
Scales: 1" = 100 m VERTICAL 1" = 50%		VLF PROFILES (NORTH SHEET)
Instruments: GEONICS EM-16		SURVEY BY C.S. D.L. PLOTTED BY J.H. DATE JULY '83 JOB 85-935

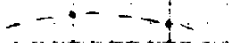


PRELIMINARY COPY


L 5+00 S

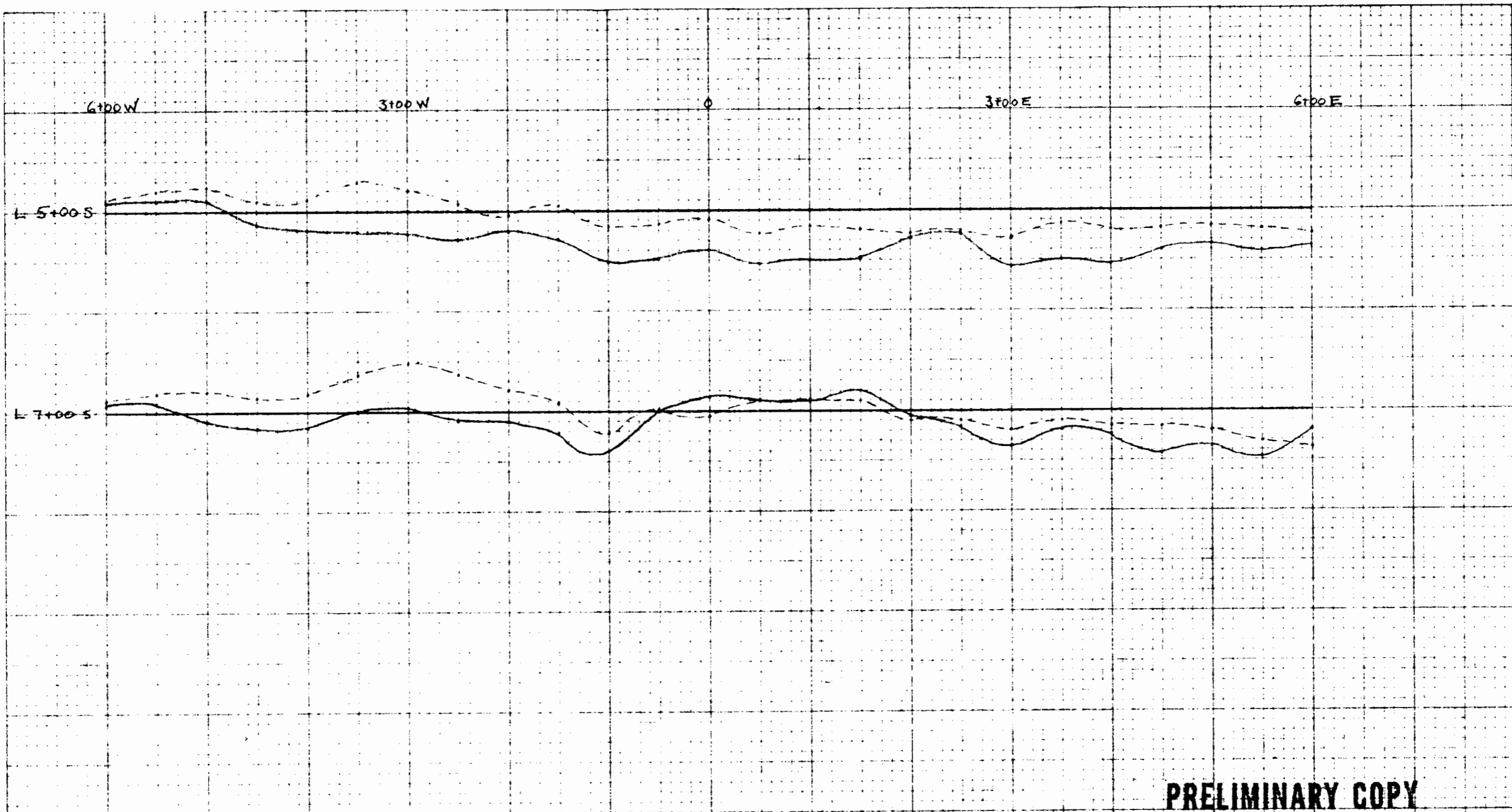
STATION NAA, CUTLER, MAINE

DIP ANGLE 

QUADRATURE 

+20%
+10%
0
-10%
-20%

	SURVEYED & COMPILED BY	HOMESTAKE MINERAL DEVELOPMENT CO.
	geoterrex	
INCONSPICUOUS GRID - QUEEN CHARLOTTE ISLANDS		
Scales: 1" = 100 m		VLF PROFILES (CENTRAL SHEET)
VERTICAL 1" = 50%		
Instruments:		<small>CHECKED BY D.L. C.S. PLOTTED BY V.H. DATE JULY '83 JOB 85-935</small>
GEONICS EM 16		

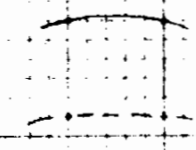


PRELIMINARY COPY


STATION NAA CUTLER, MAINE

DIP ANGLE

QUADRATURE



+20%
+10%
0
-10%
-20%

	SURVEYED & COMPILED BY geoterrex <small>INC.</small>	HOMESTAKE MINERAL DEVELOPMENT CO.
	INCONSPICUOUS GRID - QUEEN CHARLOTTE ISLANDS	
Scales: 1" = 100 m VERTICAL 1" = 50%		VLF PROFILES (SOUTH SHEET)
Instruments: GEONICS EM-16		SURVEY BY D.H. G.S. PLOTTED BY J.M. DATE JULY '83 JOB 85-935

APPENDIX IV

Diamond Drill Logs

IN 83-1 to IN83-5

#1

HOMESTAKE MINERAL DEVELOPMENT CO.

DIAMOND DRILL LOG

Claim INCONSPICUOUS 4 Baseline
 Township Section 0700, 2+50E
 Elevation est. 1030ft 314M Lat. 55°09' Long. 133°01'
 Total Depth 27.74M Azimuth VERT.
 Casing Depth: 3.35M Pulled Dip -90°
 Core Recovery: 52%

Test Depth 0 No acid tests
 Dip -90°
 Azimuth Branton
 Date Started SEPT 28/83
 Date Finished SEPT 30/83 Squeezing Rods
 Contractor: CANADIAN LONGYEAR DATE Oct/83 SCALE 1:100

HOLE NO. IN-83-1
 PROJECT INCONSPICUOUS
 PAGE 1 OF 2
 NTS 103F/14i
 LOGGED BY RTBOYD

ROCK TYPE	ALTERATION				GANGUE REMARKS	METALLIZATION (est. %)	Depth m	% REC	DETAIL	ASSAY-GEOCHEM				SAMPLE NO.	REMARKS Actual length
	pervasive	type	vein	π						Au	Ag				
0/B															
DACITE hypabyssal Med gray, hornbl. plag aphanitic no lamination	chlorite FeOx pyrite pyritic?	dry fractures strong fractured	1/2cm 1/2cm 1mm		zphanitic	pyrrhotite slightly magnetic in places.	335	50%	FeO ₂ fracture FeO _x	ppb	ppm			600D	1.08
5						1-3% py, pyr	549	28						601D	0.6
							7.62		55, 25, 35 FeO _x f.					602D	0.3
freshest looking dacite						<1% py, pyr	8.53	33						603D	0.71
							9.14	116						604D	0.66
10						increasing py. contacts	10.67	43						605D	0.52
							10.97	107						606D	0.6
							11.89	65						607D	0.20
lighter grey colour assoc. with alt.							12.50	33						608D	0.30
							12.80	100						609D	0.57
							13.41	93							

#1

SCALE 1:100 LOGGED BY RTBOYD

PROJECT INCONSPICUOUS

HOLE NO. 1N83-1 PAGE 2 OF 2

13	ROCK TYPE	ALTERATION			GANGUE REMARKS	METALLIZATION (est. %)	Depth 13	% REC	DETAIL	ASSAY-GEOCHEM				SAMPLE NO.	REMARKS
		pervasive	vs in	vs in						Au	Ag				
	ALTERED DACITE? progressively more altered with clay seams.														
15						pyrite 1-2% py.	13	3.41						610D	0.26
								4.02	43						
							15	15.09	65					611D	0.7
															0.45
								17.22	21	py. kaol.f.				612D	
						2-3% py		17.98	52					613D	0.40
								19.2	8	py. kaol.f. py. kaol.f.				614D	0.10 abundant ground and lost core
20						intense pyritiza. assoc. & chal. v.		20.57	102	5mm thick 25° chalcocony-py. v. (only obvious at 2 v. v.) (see detail on back)				615D	1.40 ground core at top of run.
								22.1	91	20° py. f. 90° py. f. 40° py. f. 45° py. f.	2 kaol			616D	1.40
								23.47	98	40° py. f. 5° py. f.				617D	1.35
25	FAULT GOUGE (IN DACITE?)					1-8% py in gouge.									0.40
							25		13					618D	
								26.52							Drillers report flowing sand seam.
								27.74	65					619D	0.80
						H. gm. color less altered				0.5, 45° py. f.					
										EOH					
30							30			[Abandoned due to flowing sand]					

IN83-1

19.5 M

py. f.

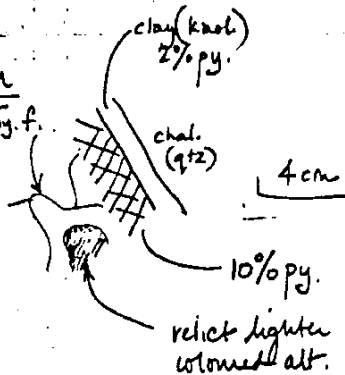
clay (kaol.)
2% py.

chal.
(qtz)

4 cm

10% py.

relict lighter
colored alt.



#2

SCALE 1:100 LOGGED BY GNC

PROJECT INCONSPICUOUS

HOLE NO. 11V-83-2 PAGE 2 OF 9

ROCK TYPE	ALTERATION			GANGUE REMARKS	METALLIZATION (est. %)	% REC	DETAIL	ASSAY-GEOCHEM				SAMPLE NO.	REMARKS	
	pervasive	type	vein					Au	Ag					
21		py. py.chl. den.py	1 1/4m 5/8m	1/4m 1mm 4mm	light green matrix. Dark green chlorite xls are larger up to 2mm. 21.25-34.8	Diss py. No diss. pyrr px on fractures	21.95 100	1/2 vein cuts serite fracture py with brown clay 22.5 dendritic py.					5 .3	630 D 1.5
25	Moderate propylitic pervasive local increases in concentration of chlorite	py.chl. calcite.py py.chl. py. py.chl.	1/4m 3/8m 2/4m 1/5m 1/3m	1mm 1mm 1/2m 1mm 1mm	Grey-green Matrix pyrrhotite is generally more abundant than pyrite in the less altered zones.		24.69 102	py. chl. 20°, 40° cc py 70°						
		den.py py.chl. py.chl.	5/8m 1 1/4m	4mm 1mm 1mm		3-5% po>>py only locally 5% combined sulphides	27.74 101	py. chl. 30° py 70°, 80° py. chl. 30° 70°						
30		den.py py.chl. py.chl.	5/8m 1 1/4m	4mm 1mm 1mm			29.26 106	den.	29.0	11 .4		631 D 1.20		
		py.chl. py.chl.	1 1/4m	1mm 1mm			30.18 89	py. chl. 40° clay 20° py. chl. 20°		4 .3		632 D 1.40		
		den.py py. cc. py. py. cc. den.py	5/8m 1 1 1 1 5/8m	4mm 2mm 1.5cm 2mm 1/2m 1mm		po>>py local conc. dendritic py. 10cm zones	32.00 105	den. py. py. 30° cc. 0° py. 30° py. 20° cc. 10°						
		py.chl. g.v. (chal?)	1/2 1	1/2 3/5m	34.9 - 37.1 Lighter whitish grey. Mottled texture is less distinct Calcite veins more frequent.		33.83 104	den. py.						
35	pyrrhotite absent increase in calcite	py.chl. g.v. (chal?)	1/2 1	1/2 3/5m	37.4-35.5 - 2-3% disc. py 35.5-36.0 - 5-10% disc. py		34.87 87	py. chl. 0° 34.7 Cgr. bl. sulphides in gv.		29 .7		633 D 1.20		
		g.py g.py g.v.	1/3m 1/4m 1/4m	1/2m 1/3m 1/2m	37.1-37.7 increase in chl. xpo.	37.5. very fine grained (v.f.g.) sul. (probably py) in chalcedony veins	35.66 91	Broken conc. several calcite veins 3-9 to alt gauge?		45 .9		634 D .95		
38		g.py g.v.	1/3m 1/4m	1/2m 1/2m			37.03 95	py. 80° py. 0° 10° py. v. cuts 24 10° (see com) 38.5		16 .6		635 D 1.50		
							38.71							

SCALE 1:100 LOGGED BY GNC

PROJECT INCONSPICUOUS

HOLE NO. IN-83-2 PAGE 4 OF 9

ROCK TYPE	ALTERATION				GANGUE REMARKS	METALLIZATION (est. %)	GRAVIMETRIC % RECOVERED	DETAIL	ASSAY-GEOCHEM				SAMPLE NO.	REMARKS
	pervasive	TYPE	VEIN	VEIN					Au	Ag				
55		py. chl.	3/m	1-2 mm			py. chl. 30-70°	5525					641 D	
								56.5	3	.3				1.30
	57.61-60.9					84			8	.1			642 D	1.30
	light grey cc. rich. alteration more intense near fractures and veins	g. py.	1	5-10 mm		57.61		57.75	17	.4			643 D	1.22
			2/4m	2mm				59.0	8	.3			644 D	0.93
60	60.3 lean light green aphanitic dike or propylitic alteration filled fractures pyrite xls on margin.	py. chl.				60.85		60.0	10	.3			645 D	.38
	61.0-70.0	g. tr. py.	4cm	1-2 mm	61.0-70.0	61.57		61.0	2	.3			646 D	.42
	Med. prop.				Dark gray with alt. selvages on fractures			61.5	9	.1			647 D	1.62
		cc.	1	1/2		63.09		63.0						
		py. chl.	3/4m	1/2		64.62								
65	65.0-65.8													
	Latite Agglomerated Note: Very small in extent. Light grey aphanitic matrix comprising 30% of total. Subangular to subrounded fragments <1cm to 4 cm: 70%. Frag. are aphanitic and are propylitically alt.													
		g. py. chl.	3/4	1/2		66.14								
						67.36								
						69.59								
		g. (Broken?)	1	2mm		69.19								
	69.0-70.0 cc increasing	g.	3/4m	1-2 mm				69.0	4	.1			648 D	1.55
	70.0-72.0 Dark green mottled.	py. chl.	1	1mm				70.5						
		g.	1	1mm					7	.2			649 D	1.5
72		py. chl.	1/2	1-2		72.24		72.0					X	

SCALE 1:100 LOGGED BY GNC

PROJECT INCONSPICUOUS

HOLE NO. IN-83-2 PAGE 6 OF 9

ROCK TYPE	ALTERATION			GANGUE REMARKS	METALLIZATION (est. %)	DRILL % REC	DETAIL	ASSAY-GEOCHEM			SAMPLE NO.	REMARKS		
	DERIVATIVE	TYPE	VEIN					Au	Ag					
89 Fault Zone as above Fault Breccia frag. range from grit to cm sized subrounded to sub angular blocks 1/2 of core on average		2	5/3	1-4 mm	kaolinite chys on shears and between frags. is prominent throughout the zone	2-3% diss. blks. of py.	29.61 87	7. 20°40°	99			658 D		
							90.53		90.5	44	10			1.40
						1-2% diss. blks of pyrite	91.74 81		92.0	51	.6		659 D	1.45
							92.66 103							
		g. cc. py	1	10mm	minor cc. occurs in larger fragments of less argillitic altered material		94.49 105							
							94.95 78							
95		py. chl.	2/4m	1-2 mm		96.5 py. xls	96.62 91							
		py. chl.	2/4m	1-2 mm		98.4 v.f. gr. bl. sul.								
		py.	1	1mm		98.85-v.f. gr. black sulfide with minor larger py. xls	99						660 D	
100		py	5/8m	4mm			99.76							
		py	7/8m	5-8 mm		Note. py. xls tend to occur in breccia- ted areas. Black f. gr. sulfide occur in some of intense argillitic alt.								
		py	4/5 mm	1-3 mm		102.0-104.5 3% diss. f. gr. py + py xls up to 2mm, local conc. to 5% mostly in fault gouge. Pyrite is present but less evident in frag.	101.49 78							
		py	1	1-3 mm		5% py 109.55-105.7 irregular g. cc. with v.f. gr. py and py. fractures	102.41 95							
105		py.	7/50 mm	1-3 mm			104.55							
		py, g. cc.	5/4m	1-4 mm			105.77							
106		X					X						X	

SCALE 1:100 LOGGED BY GNC

PROJECT INCONSPICUOUS

HOLE NO. 1N-83-2 PAGE 7 OF 9

ROCK TYPE	ALTERATION			GANGUE REMARKS	METALLIZATION (est. %)	CORRECTION	% RECOVERED	DETAIL	ASSAY-GEOCHEM			SAMPLE NO.	REMARKS
	pervasive	TYPE	VEIN						Au	Ag			
106 106.4 - 113.25 Latite Porphyry		py. chl.	1 1/4" 12 mm	C.C. increasing	No pyrr.		89	py. chl. 30-90°				664 D	
Medium Gray porphyritic prospectively alt. as above	mod. prop. alt more intense near pyrite veins.			108.1 ? 2cm vein? aphanitic light green bearing diss. dark blue black mineral	107-109 dendritic pyrite, less dense larger zone		78	py. vein? @ 35°					
110				Mottled texture whitish green on greys - not as calcareous as above fault zone.	is crosscut by dendritic pyrite. sulfosalts? Ag mineral.		97						
113.25 → 121.5 Andesite		g. py. chl.	1 24 mm		111.95 - 112.25 qtz vein stockwork v. f. gr. Bl. sul., py. xls. f.g. arsenopyrites sulfosalts.		74	Fault Gauge 40°	111.5 60 .8 111.86 1920 3.2 112.34 460 .9 112			665 D 666 D 667 D	
115 aphanitic, siliceous. Matrix appears to carry similar conc. of diss pyrrhotite to the weakly altered zones at the top of the hole				chlorite is in felty masses on fractures.	114.25 2-12 sided pyrite xls in sugary qtz minor den. py.		98	113.1-113.4 Broken Core at "Contact" 5-10mm Selong	34 .1 114.5			668 D	
120					disc ps locally 3%		100	py. chl. 40-70° g. 70° g. py. chl. 0-5° (solvaes 10-20 mm)					
121.5 - 138.15 Latite Porphyry see below	118.7 increase in size of selvaes on g. py. chl. veins				121.5 - 125.25 irregular chal. qtz. with py. diss. and semimassive		99	g. chalcocite @ 0°-25°, 50° with minor off shooting veinlets.	120.4 14 .1 121.5 195 .6 122.5 270 .7 123.25			669 D 670 D 671 D	
* Note Open spaces and filling @ 122.15 and 123.1 - Sugary qtz and pyrite xls.					122.15 + 123.1 fr. arsenopyrite? v. f. gr. py.?		105						
123							X					X	

SCALE 1/100 LOGGED BY GNC

PROJECT INCONSPICUOUS

HOLE NO. IN-83-2 PAGE 8 OF 9

ROCK TYPE	ALTERATION			GANQUE REMARKS	METALLIZATION (est. %)	Depth	% RECOVERY	DETAIL	ASSAY-GEOCHEM				SAMPLE NO.	REMARKS			
	pervasive	VEIN	TYPE						Au	Ag							
123 <u>Lattice Borphyr</u>								123.26									
125 Dark green, weakly altered, mostly aphanitic, c10% visible phenocrysts.		chal. g.	1	6-10 mm	up to 5% zoned calcite alt. amygdulites surrounding pyrrhotite xls.	125.0	40-32 diss. po.	py. chl vein truncated chd. g.v. with 1-5cm selvage.	124.25				672 D				
		py. chl.	1	1-2 mm							124.55					673 D	
		g. py. chl.	7/80	2mm							126.0					674 D	
											126.19						
											126.49	100					
		py. chl.	2/10	1-3 mm				127.1	56								
								127.54	57								
								129.43									
								130.0									
130 1mm qtz filled fractures up to 25/cm density @ 130.7 Margins distinct	130.2-130.9 131.1-131.22 Strong silic. 131.8-132.87 partial silic	g. stock- work	25%	1mm	Light white-grey crosscut by thin pyrite veinlets and silic.			g. stockwork	129.5				675 D				
		py. chl.	2/5	1-2 mm				g. stockwork py. chl. 570°	131.0				676 D				
					Less silic. but overall texture is similar.			g. stockwork	132.5								
		g. py. chl.	1	1-2 mm				g. 20°, 70°	29	.3			677 D				
		g. py. chl.	7/75	3mm				py. chl. 0° (8-10mm selvages)	134.0								
	134-138 Silic. zone							g. py. chl. 0°, 25° (5-10mm selvages)	70	.4			678 D				
135	135.8-137 Silicification total.	g. veinlets	5/	1/2 mm				py. chl. g. py. chl.	135.5				679 D				
		cc. fault	1	15 cm	137.5-138.0 Fragments up to 3mm. Frag. are altered to cch.			Minor Fault @ 10°	137.0				680 D				
		g. veinlets	7/	1/2 mm				minor silic. py. chl. 700° (1-4 mm)	138.0								
138.15-140 <u>Andesite</u>		py. chl.	6/	1-2 mm				g. py. chl. 0°, 70° (6-8mm selvages)	11	2			681 D				
140 Dark grey pyrrhotite bearing.		py. chl.	2/	2mm				py. chl. 20°	139.5				X				

SCALE 1:100 LOGGED BY GNC

PROJECT INCONSPICUOUS

HOLE NO. 1N-83-2 PAGE 9 OF 9

ROCK TYPE	ALTERATION			GANGUE REMARKS	METALLIZATION (est. %)	Depth m	% RECOVERED	DETAIL	ASSAY-GEOCHEM			SAMPLE NO.	REMARKS			
	pervasive	TYPE	VEIN						Au	Ag						
140 140 - 142.7 Latite Porphyry	140.3 - 142.7 silic zone associated with chaledonic vein @ 140.1 + 142.22	py. chl. chal. 140.15	1	10-15 mm	Where not silic foldings are Angilli- ly alt. Core is totally silicified. Sub- angular breccia sign along vein margins. 1-3 mm green Xl's comprise 10-20% of core. po >> py		100	py. chl. 70° chal. 20° & py. chl. (irr)	140.9	23	.5		682 D			
Same as above		g. py. chl.	3/4m	1-2 mm		142.34		g. 70° py. chl. 0-20°	141.3	1040	.9			683 D		
142.7-155.45 Andesite							97		142.5	65	.6				684 D	
As above							98		144.0	9	.1				685 D	
Dark grey pyroxenite bearing		chl + py. chl.	6-8 mm	1-2 mm		144.32		chl. } 30-50° py. chl. } saw 40° miner g.	145.0							
145		to silic				146.00			146.5	4	.2				686 D	
						148.29		chl. + g chl. py	148.5	18	.2				687 D	
			g. py. chl.	1		3-5 mm	149.66									
150			py. chl.	3/4m		1-2 mm	151.49									
			chl. & py. chl.	2/4m		3mm 2mm 1-2 mm	153.92									
		chl.	1	1mm	155.45											
155							105	g. 60° py. chl. 10° chl.	152.5	26	.6		688 D			
							92	Broken core py. chl. and miner cc. subparallel to core!	154.0	38	.1		689 D			
										60	.1		690 D			

#3

HOMESTAKE MINERAL DEVELOPMENT CO.

DIAMOND DRILL LOG

Claim INCONSPICUOUS-1

Baseline _____

Test Depth

Township _____

Section 110S, 2+50 E

Dip

Elevation est. 975A.297mLat. 53°01' Long. 133°01'

Azimuth

Total Depth 133.2 MAzimuth 295°Date Started Oct 5 1983HOLE NO. IN83-3PROJECT INCONSPICUOUSPAGE 1 OF 8NTS 103 F/14

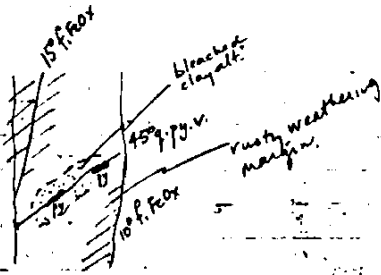
Casing Depth: _____

Dip: -60°Date Finished Oct 9 1983LOGGED BY RTBAverage CORE RECOVERY: 87%Contractor: LONGYEAR CANADADATE Oct/83 SCALE 1:100 (1cm = 1m)

ROCK TYPE	ALTERATION			GANGUE REMARKS	METALLIZATION (est. %)	Depth	% REC	DETAIL	ASSAY-GEOCHEM				SAMPLE NO.	REMARKS
	pervasive	type	vsh T						Au	Ag				
OVERBURDEN Brown clay rich													NO SAMPLES	TRICONED AND CASED.
Triconed bedrock.					f - fractures - core breaks easily along these fissures - dry or drizzly.									Very broken bedrock.
						9.75								
-10 ANDESITE PORPHYRY Variously altered with dis. pyrrhotite, altered to pyrite in places. Mafics - altered to biotite, calcite, qtz (chlorite?) pyrrh. asp - plagioclase altered unaltered	calcite biotite pyrr. alt asp. not destroyed (prop?)	F ₂ O ₃ Weather	pyrr. f. ox 2/cm 2m	rock - v. f. ves. mafic porphyritic chert	pyrrh. 4% pyrite (as fract) (2%) slightly magnetic	10.36 10.97 11.28 11.58 12.19 12.50 13.41	30% 80% 77 38 85 39 26	20% 25% 25% 25% 25% 25% 25%	20% 25% 25% 25% 25% 25% 25%	7 22 16 19 10	.3 .4 .2 .1 .1			691D 0.18 ground core (G.C.) 692D 0.54 693D 0.24 (v.B) 0.10 v.B, a.c. 694D 0.52 0.12 695D 0.24 (a.c.)

GC = groundcover

11.6 M



Petrography (Sample collected never sent)

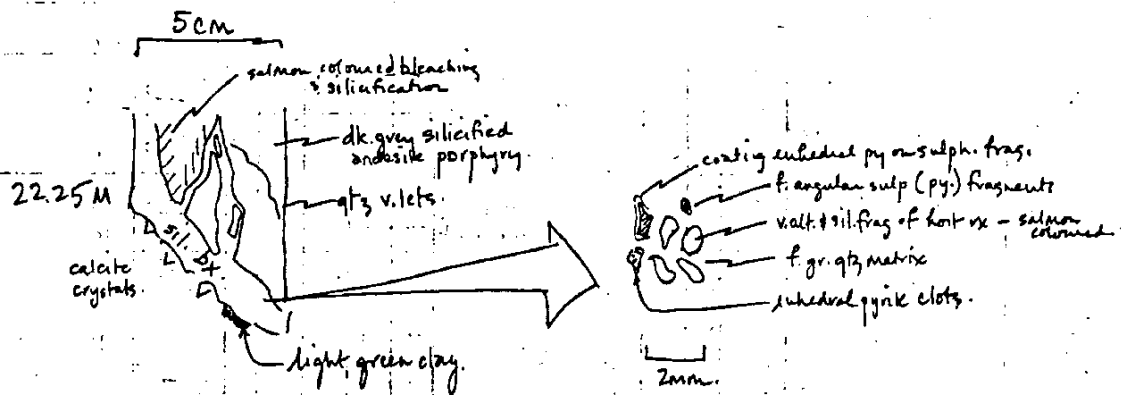
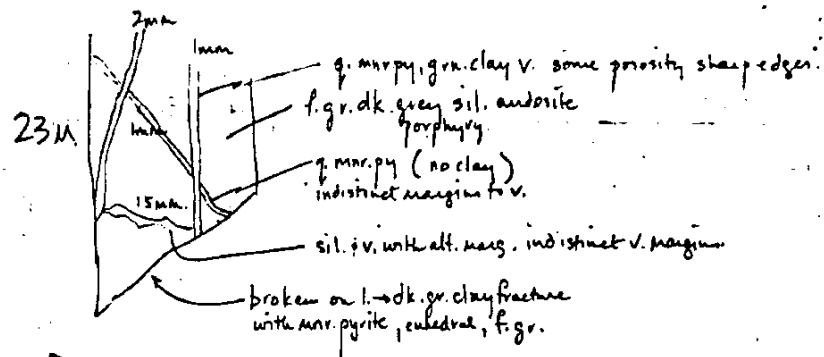
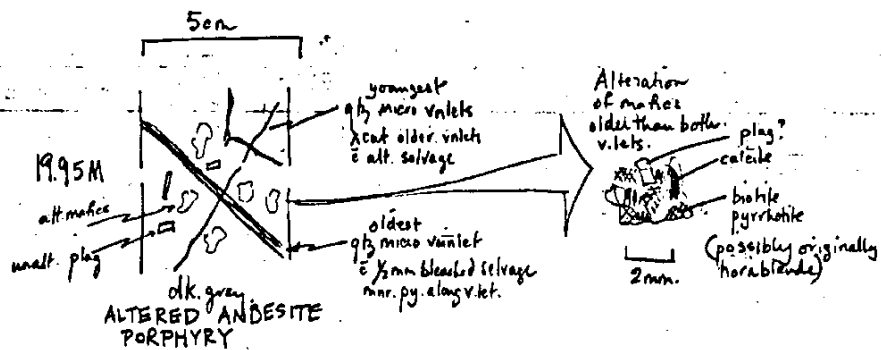
SCALE 1:100

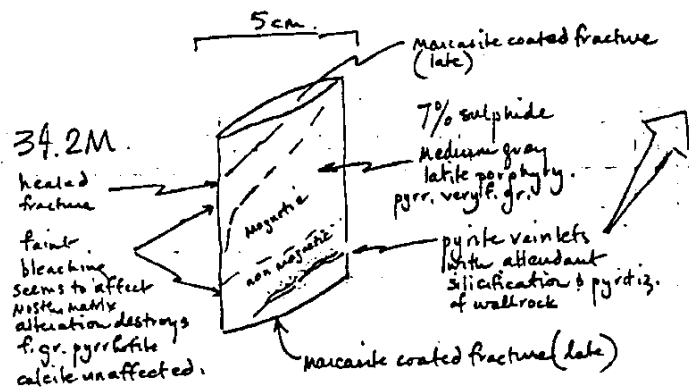
LOGGED BY RTB

PROJECT INCONSPICUOUS

HOLE NO. IN 83-3 PAGE 2 OF 8

13	ROCK TYPE	ALTERATION			GANGUE REMARKS	METALLIZATION (est. %)	CORRECTION	% RECOVERED	DETAIL	ASSAY-GEOCHEM			SAMPLE NO.	REMARKS
		pervasive	VEIN	TYPE						Au	Ag			
13	ANDESITE PORPHYRY (as above)	calcite biotite pyrr.		pyrr.	plag. not altered <5%	pyrrhotite (dis.) Mar. v. v. H ₂ O on 10° f. f. & 2 kaol. (at base)	13.41		10, 20' fracture - 50° q.v. py (cat) v. healed	10	.1		695D	see above 0.13
15	grading to less altered & less ground water oxid. general mottled appearance becomes quite dark when fresh. matrices with ch., bio, cc? pyrr. plag - unaltered (Possible xst. tuff since one plag. is broken)	prop? biotite chl. pyrr. calcite	15'	pyrr.	plag. not altered <5%	Widely magnetic thrust 1-4%	13.71	43	50° q.v. py (cat) v. healed	4	.1		696D	0.48
							16.33	77	50° q.v. py healed	4	.4		697D	1.0
							15.24	110	35° q.v. py v. healed 15' f. f.				698D	0.26
							15.85	43					698D	0.16
							16.76	18	30° f. & sand	21	.4		699D	0.84
							17.68	91	20° f.	42	.1		700D	0.32
							18.14	70					700D	0.50
							18.59	119	18.6 m. 30° q.v. mar. Mgfs 20° f. - 2320° E 90° to ea. 40° f. 50° f.	4	.1		701D	0.79
20		prop? cc. f.		single 4mm		pyrr. mp. mar. v. v. H ₂ O on 10° f. f. & 2 kaol. (at base)	19.51	83	(see back)	12	.2		702D	2.04
				single 6mm				96	15° q.v. mar. py. 6mm 20.6				703D	
				single 1mm			21.64	53	20° q.v. mar. py	3	.4		704D	0.20 G.C.
				single 2cm			22.25	33	30° f. 40° f. 40° py bx sil. (see back)	70	.2		704D	1.08
				single 10cm			23.47	86	c. xst. calcite v. 30° lath 15° q.v. 10° q. clay v. (substrate) 35° q.v. mar. py 10cm. 23.68	17	.4		705D	
				single 4mm				91	20° py & py with selvs 20° c. xst. cc. lath. 15° q.v. mar. clay. py - unaltered 40° f.	20	.1		706D	2.21
				single 4mm			25.91	91		8	.1		707D	
				single 5mm			26.82	123	40° f. 25° f. py. ch. lath 20° c. xst. ac. lath 30° f. 50° f. - cf. py 35° f. - cf. py	9	.2		708D	1.12
				single 2mm				95	25° q.v. mar. py 40° f. py. ch. lath 40° f. py. ch. lath	25	.2		709D	2.18
							29.11		15° q.v. mar. clay. py - unaltered 40° f.	19	.2		710D	
30									40° py v. lath / 70° f. py. ch.	22	.6		711D	

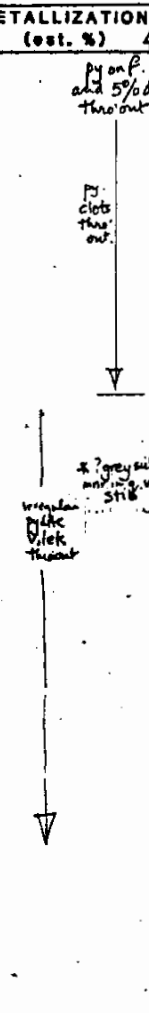
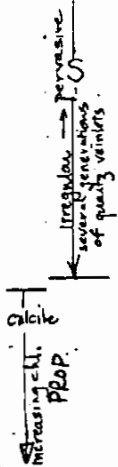




47	ROCK TYPE	ALTERATION				GANGUE REMARKS	METALLIZATION (est. %)	% REC	DETAIL	ASSAY-GEOCHEM				SAMPLE NO.	47	REMARKS
		pervasive	vein							Au	Ag	Cu	Mo			
	FAULT ZONE Primarily brx light grey to green kaol. latitic porph.	ARGILLIC grey green mostly fractures no abrasion veining (see back)	py. kaol. or fractures no veins mostly fractures no abrasion veining	1mm 3mm	plag:stet. grn clay seen intact even though rx is altered. kaol. shears 50% kaol. A dz. micro v.lets thrs out.	48.31	75	15 to f.	10	.1	.2	725D	115			
49.07						107	10' f, E slickenside (see back)	13	.2	.3	726D	.82				
50.14						71	10' E kaol. py.	4	.1	.2	727D	.77				
51.21						76	50'f brecciated and crumbling.	3	.1	.2	728D	.82				
51.82						67	50'f 51.75				729D	.4	very broken			
53.19						29		17	.3	.3	729D	.40	Possible lost core			
53.95						78	20' f. v. 15' m. 1mm 3mm	51.0	5.4		730D	.60	First Qtz V. & Silic.			
						86	26' f. v. 20' m. 20' f. v. 15' m. 1mm 3mm	49	.7		731D	2.1	{ Very fine grey sulphide to stream py. v.lets (G.F.B.)			
						86	26' f. v. 20' m. 20' f. v. 15' m. 1mm 3mm	44	.4	.4	732D		core very broken			
						88	57.61	55	.6		733D	1.08				
	89	59.28	38	1.8		734D	1.49									
	86	60.01	80	1.0		735D	.63	very broken								
	98	63.09	255	2.0		736D										
			3	.1	.1	737D	3.04	First calcite								
						NS										
						X										

SILICIFIED FAULT COMPLEX
 darker grey in colour qtz veinlets thrs out host rx. to sil. is brecciated porphyry with darkened, later altered bititic rich cores (see back) May be very sil. fault breccia.

CHLORITIC GREEN PORPHYRITIC TUFF
 Layers plane than above latitic-green or more chloritic some xenoliths present

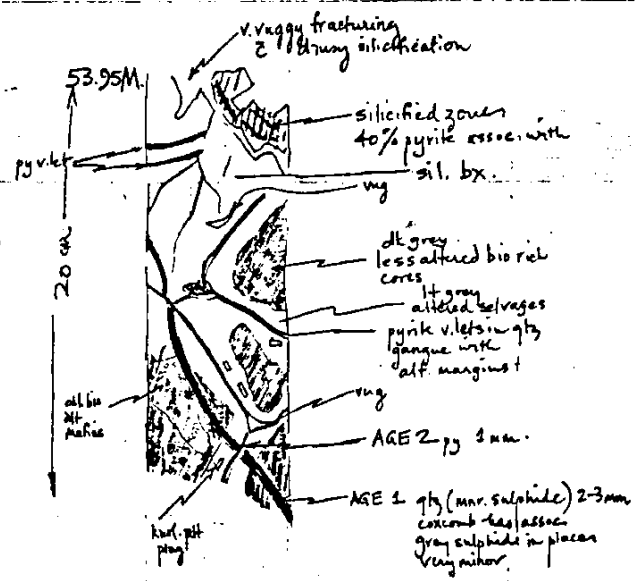
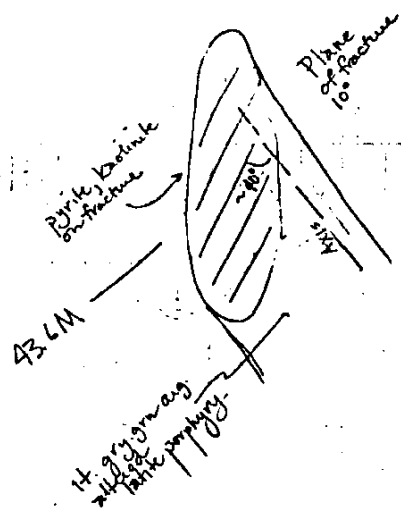


ASSAY-GEOCHEM	REMARKS
48.31	75
49.07	107
50.14	71
51.21	76
51.82	67
53.19	29
53.95	78
	86
56.39	
57.61	88
59.28	89
60.01	86
	98
63.09	

10' f. E slickenside (see back)
 10' E kaol. py.
 brecciated and crumbling.
 51.75
 20' f. v. 15' m. 20' f. v. 15' m. 1mm 3mm
 26' f. v. 20' m. 20' f. v. 15' m. 1mm 3mm
 55' f. v. 20' m. 20' f. v. 15' m. 1mm 3mm
 15' f. v. 20' m. 20' f. v. 15' m. 1mm 3mm
 15' f. v. 20' m. 20' f. v. 15' m. 1mm 3mm
 15' f. v. 20' m. 20' f. v. 15' m. 1mm 3mm

DETAIL	ASSAY-GEOCHEM	SAMPLE NO.	REMARKS
10	.1	.2	725D (cont.)
13	.2	.3	726D
4	.1	.2	727D
3	.1	.2	728D
17	.3	.3	729D
51.0	5.4		730D
49	.7		731D
44	.4	.4	732D
55	.6		733D
38	1.8		734D
80	1.0		735D
255	2.0		736D
3	.1	.1	737D large
			NS
			X

py. on f. and 5% dis thro out
 py. v.lets thrs out
 3 grey sulph. on the v.lets
 w. v.lets thrs out
 35' f. v. 20' m. 20' f. v. 15' m. 1mm 3mm
 35' f. v. 20' m. 20' f. v. 15' m. 1mm 3mm
 15' f. v. 20' m. 20' f. v. 15' m. 1mm 3mm
 15' f. v. 20' m. 20' f. v. 15' m. 1mm 3mm



SCALE 1:100 LOGGED BY RTB

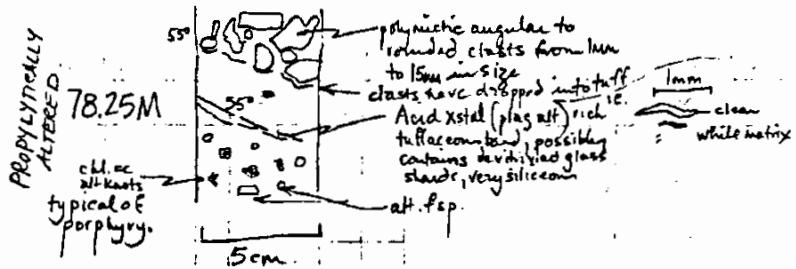
PROJECT INCONSPICUOUS

HOLE NO. IN83-3 PAGE 5 OF 8

ROCK TYPE	ALTERATION			GANGUE REMARKS	METALLIZATION (est. %)	GRIND % RECOVERED	DETAIL	ASSAY-GEOCHEM				SAMPLE NO.	REMARKS	
	pervasive	vein	vein					Au	Ag	Pb	Zn			
64 CHLORITIC PORPHYRIC TUFF (cont.) propylitically altered out Some large alt. frag. originally xenoliths (could be altered fragments, porphy.)	chlorite calcite	cc. v. single 1cm cc. v. msp - single 2-5cm no significant veining - fractures have imp. gm. clay cl/p. pyritic		- large mafic pheno. altered to plagioclase, chlorite, calcite. - Also some large xenoliths, quite altered 6919 large xenolith 5x10cm angular	<0.5% dis. py as alt. prod.		calc. filled f. 30° cc. p. z. msp py. 10°	64					NS	3.04
65	PROPYLITIC				66.14	99	5° f.						NS	2.14
					68.43	93	fractured E. gm. cl.						NS	2.14
					69.19	102	0° f. E. lt. gm. clay 50° f.	8	.1	.1		738D	.78	
					71.02	100	0° f. E. lt. gm. clay 50° f./25° f. (later) very brecciated					NS	1.84	
					72.54	73	10/85 py. mud (f. gm. py.)					NS	1.11	
					74.52	101	P45 f. 11 gm. clay filled m. py. w. f. gm. f. gm. clay q.v. 45°					NS	2.00	
					76.20	105	10° f. sandy v. f. gm. py. mud.					NS	1.78	
					78.03	123		7	.1	.2		739D	1.78 1.74	
					78.33	97						NS		
					79.10	144	30° BEDDING CONTACT (see back)					NS	.70	Very Broken
					80.62	96	40° f. 0° f.	30	3	.1	.3	740D	1.46	
								81				X		
75														
70														
80														

from 78.03 to 78.25
cl. v. supported
fragmental
PORPHYRIC TUFF
(as above)

angular to sub
rounded fragments
up to 15 mm in size



SCALE 1:100 LOGGED BY RTB

PROJECT INCONSPICUOUS

HOLE NO. 1N83-3 PAGE 6 OF 8

ELEVATION	ROCK TYPE	ALTERATION			GANGUE REMARKS	METALLIZATION (est. %)	% RECOVERY	DETAIL	ASSAY-GEOCHEM			SAMPLE NO.	REMARKS
		pervasive	VEIN						AU	Ag	Pb		
81	PORPHYRYTIC TUFF (as above) finer grain near contact	Propylitic	Calcic Amp.	single 2cm	large clasts in fig. tuff. 2 to 3 browned	20.5% P	113	110' - also contact with fig. tuff.				NS 1.91	CORE VERY BROKEN
	DK. GREY ANDESITE PORPHYRY V.F. GY. DIKE?				relicts of large mass or almost 7 phg rich		83	10' calcic v. 10' Intrusive contact. Chill margin 5.5cm				NS 1.53	
	PORPHYRYTIC TUFF (as above) gets lighter green in column near lower contact. (B5, B3)						84.13	50' Intrusive Contact. Chill margin 0.5cm				NS .42	
85	Mafic xstal tuff		cc.v. pyalt stage	single 1.5cm	Mafic tuff band, gtdk. gray, undulating contact	1% py 0.5% p	70	50' H gray clay rich zone possible shon.				NS .75	
			a.v. mat. py	single 1.5cm			123	20' cc.v. dk gray alt				NS 2.54	
							40	50' Bedding Contact 90' Bedding Contact 30' gray clay - alt. v. cc.v. 30' gray clay				NS 1.77	
							87.78	5' gray clay 30' gray clay				NS 1.18	
							96					NS 1.77	
							89.61					NS 1.18	
90	MEDIUM BROWN TO GREY TUFF OR ASH FLOW MICROCRYSTALLINE very f.g., soft, cracked brecciated throughout, pyrite lim on fracture	Sericite?	pervasive discontinuous py vein contact by crackle tx			on p. 5-7% py 1% dis. p	96	30-35, 30' Bedding Contact	10	.6	.5	741D 1.18	
					0.0 Argonite Porphyritic Tuff Bed		89	DRILLER Reports Core 91.3				NS	Ground Core Boundary
							92.9%	Bedding Contact	60	.7	.7	742D 1.90	
						49% py in fault breccia	39	30' steep contact. py band	220	1.6	1.6	743D .48	CORE BROKEN
							110	30' py clay & 2cm alt. v. g	70	.7		744D 1.02	CORE VERY BROKEN
							95.40					1.14	CORE BROKEN - BRILL
							95.71					1.20	
							96.01					1.27	
							96.93		18	.4	.4	746D .88	
95	[RHYOLITE or SIL. BR. TUFF]	STRONG MILD			dk gray porphy tuff		95		26	.6		747D	
						trace of py. v. v. Stibnite			32	.7		748D 2.30	stibnite *

97.75

unknown
silver grey
graphite

Iron
Quartz, violet

GRAPHITE

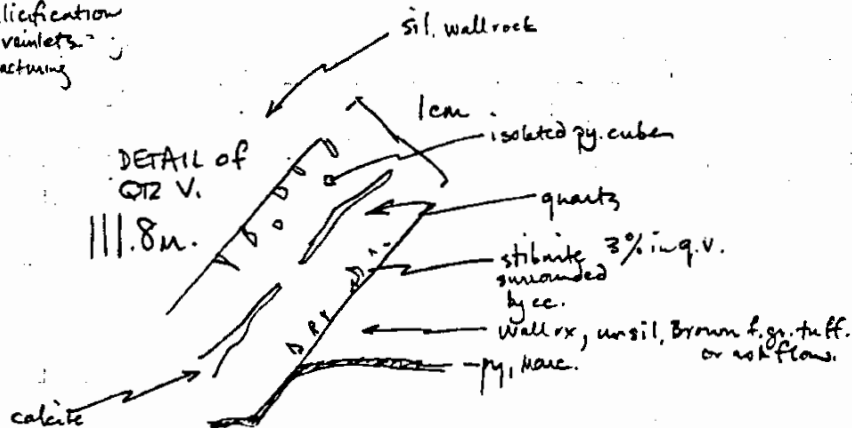
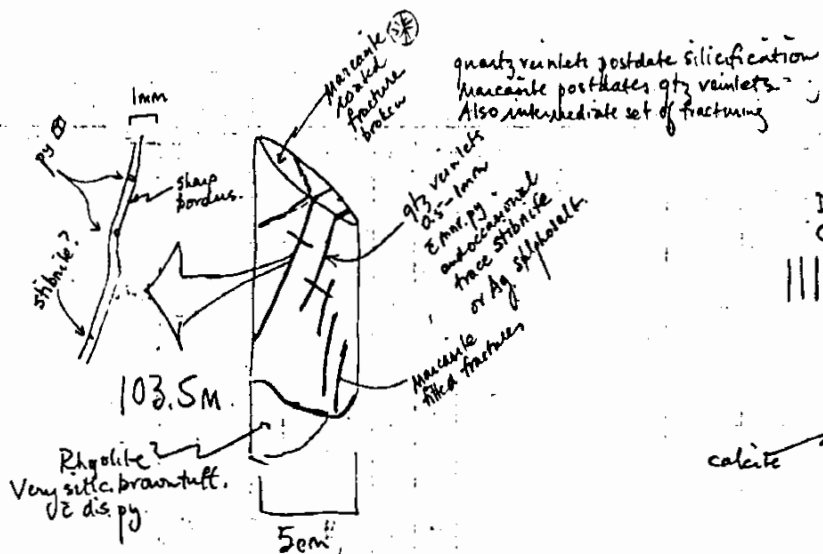
Streak: black
Very soft - 2
Fabric like graphite
definitely not moly.
Always 2 to 4 v. lts.
5 mic. pyrite.
STEPHANITE?

SCALE 1:100 LOGGED BY RTB

PROJECT INCONSPICUOUS

HOLE NO. IN83-3 PAGE 7 OF 8

98	ROCK TYPE	ALTERATION			GANGUE	METALLIZATION (est. %)	GANGUE	REMARKS	DETAIL	ASSAY-GEOCHEM			SAMPLE NO.	REMARKS
		pervasive	vein	vein						Au	Ag	As		
100	MED. BROWN TUFF (as above) Except now totally silicified to white in colour (could be Rhyolite Tuff.)	INTENSE S White & ch. p. cl. p.	da. q.v. q.v. & Ag sub	single 2mm	1mm	<0.5% d.s. Sibirite	UP TO 2-3% total restricted to fractures as Malacite	10° q.v. Egmont 10° q.v.	98.1 98.0	28	.4		748D 149D 750D	Sibirite 2.30 COE HARD BUT CRUMBLY
													751D	2.24 2.02
													752D	2.25 LOST CORE?
													753D	.60
													754D	.32
105													105755D	.69 .07
													756D	.72
													757D	1.27
													758D	.75
													759D	.78 .40
110													110760D	.59
													761D	1.20 Slight blue fluorescence
													762D	2.45
													763D	1.40
													764D	
115													765D	1.82



SCALE 1:100

LOGGED BY RTB

PROJECT

INCONSPICUOUS

HOLE NO. IN83-3 PAGE 8 OF 8

ROCK TYPE	ALTERATION		GANGUE REMARKS	METALLIZATION (est. %)	Depth m	% REC	DETAIL	ASSAY-GEOCHEM				SAMPLE NO.	REMARKS
	pervasive	vein						AU	Ag	As	Cd		
115 BROWN TUFF (BY ADVE)					115.21	52						765D	.21
116 ABGLOMERATIC DACITE TUFF prop. altered large xeno. or frag. alt to chl. + pyrr. + calcite getting finer gr.	pervasive pyrr. + sil. + calcite	vein 4mm		Pyrrhotite Slightly magnetic	115.67	147	mean E knot along 25' q.v. ball old tail 20' q.v. E sil. py (pyrr) on @ 90° to					766D	.68
		g.v.				89	25, 30' q.v. E pyrr. (sil.)					767D	2.05
		g.v.	6/10mm - 4mm		117.84		20' q.v. (mainly) diffuse mag.					768D	
		gr.	single 3mm		118.87	131	30' q.v. (lat) sharp mag.					769D	1.20
					119.33	60						770D	.28
					120.09	73						-770	.56
120						104	20' q.v. E py. mag. py.					771D	2.06
		g.v. mag. py	single 4mm	spotty py along inner fractures	122.07		30' q.v. py + f.					772D	
						99	pyrrhotite q.v. vein (early)					773D	2.99
		pyrr. + calcite	6/10mm 3mm 6mm		125.87		15' py. cc 20' q.v. complex 30' q.v. q.v. cracks by max. py.					774D	
125 MEDIUM GREY ANDESITE weakly altered patchy bleaching adjoining fractures minor beds or zones with fragments.	FOR INTACT MILD WEAK PROF.			angular c/a sts. and coarse agglom. zone 10 cm.		84						775D	1.71
		no sig. v.			127.10		calcite v. to py. 35°					NS	2.06
		cc. v.			129.39	89						NS	1.64
		no sig. v.		Patchy bleaching adjoining fractures 6mm	131.06	98						130 NS	1.64
132						98						776D	2.10
EOH 133.20					133.20		E.O.H.					133.20 EOH +	

#4

HOMESTAKE MINERAL DEVELOPMENT CO.

DIAMOND DRILL LOG

Claim INCONSPICUOUS 4

Baseline _____

Test Depth None

Township _____

Section 1400N, 3.00 E

Dip _____

Elevation est. 1050 ft. 320 mLat. 53°01' Long. 133°01'

Azimuth _____

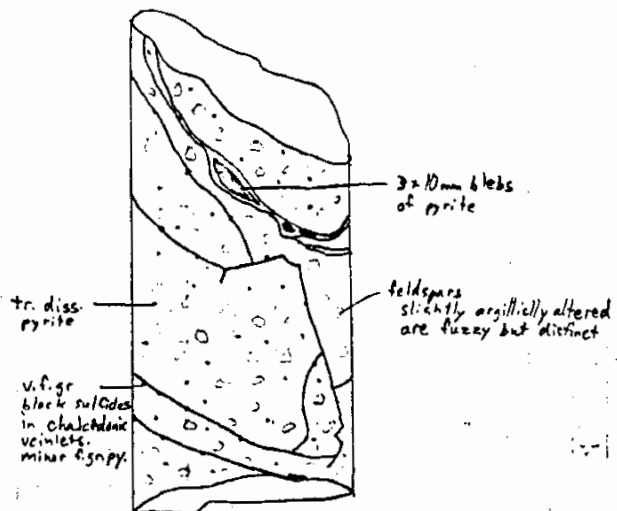
Total Depth 38.7 M (127 feet)

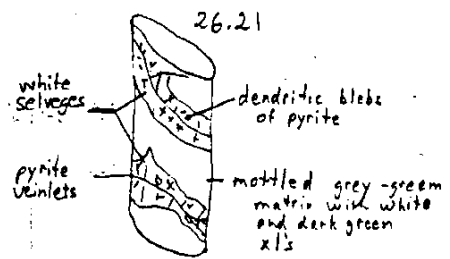
Azimuth _____

Date Started Oct 11 1983Casing Depth: 14.94 M PulledDip: -90°Date Finished Oct 14 1983 ABANDONEDAverage Core Recovery: 47%CONTRACTOR: LONGYEAR CANADAHOLE NO. IN834PROJECT INCONSPICUOUSPAGE 1 OF 2NTS 103 F/14LOGGED BY RTB/GNCDATE Oct/83 SCALE 1:100

ROCK TYPE	ALTERATION			GANGUE REMARKS	METALLIZATION (est. %)	Depth ↓ ↑ DOM	% REC	DETAIL	ASSAY-GEOCHEM				SAMPLE NO.	REMARKS
	pervasive	type	vein						Au	Ag				
@7.92 @8.69 @10.04	FeOx weath.					0 10								clay rich / B to approx 7M. TRICONED BROKEN B/R. CASING Depth. 14.94
Andesite Porphyry 7.92 → 23.4 Dark green, porphyritic 10% matrix (sil, fmg) subrounded grains and lath-like grains. up to 2 mm in length slight alt. to biotite increases 15.5 → 20.1 also minor sericitiza- tion around plug. 20 fsp in this zone causes slightly lighter grey color. Also less magnetic in this zone. 22 pyroxenite to pyrite?	FeOx weath.	partly c.f. cf c.p.	1 1 1	clmm clmm clmm	A fine grained crystalline matrix minor sericitization minor localized Fe oxidation.	15 16 17 17.98 19.20 19.50 19.81 20 20.11 20.73 21.18 21.49 21.93	16 21 83 5 65 45 66 80 150 5 76 8 48 45	10% brown clay with coating fractures Calcite on fractures with diss. py 0.5 70% c.f. c.f. with diss. py. 30% 20.4 → 20.8 shear zone f. chlorite clay					0.10 Ground Core (G.C.) 0.13 G.C. Broken Core (BC) 0.51 0.15 0.60 0.55 0.20 0.25 0.45 0.06 0.35 B.C. 0.04 G.C. 0.15 G.C. 0.20 B.C.	

23.65 m





SCALE 1:100 LOGGED BY GNC

PROJECT INCONSPICUOUS

HOLE NO. 111-83-S PAGE 3 OF 11

ROCK TYPE	ALTERATION			GANGUE REMARKS	METALLIZATION (est. %)	Dip	% REC	DETAIL	ASSAY-GEOCHEM		SAMPLE NO.	REMARKS
	pervasive	TYPE	YAIN						Au	Ag		
46 (see above)	sil. m.f. trace	py.v.	2/5m 1-2				46.64 51 -47.12 145	py.v. 20°	18	.2	817 D	1.63 47.5
50	mp.	py.v.	3/6m 1-2				48.46 91 49.68 97 50.90 115	dem.py. py.v. 0-5°			NS	
	w/ps	Aplite	1 5	M			109	Aplite vein 90° dem.py.				52.5
							53.64 53.75 77	dem.py. py.f. 20° py.f. 10°	9	.2	818 D	1.45 54.0
55		ccv with FG	1 30				92	Fault gouge cc.v. py.v. 40°	195	.4	819 D	1.3 55.5
	mp.		1				56.70	py.v. 20° py.v. 20°			NS	58.0
							110	58.3 30° Alt. contact 58.6 30° Alt. contact (underleaking)	17	.1	820 D	.95 59.0
60							59.14 60.66	py.v. 70°				Ground Core.
63							X	py.v. 15° 90°			X	

SI.S → 53.64 S
chlorite cc.
pyrr → py knots

diss. po → py.
up to 3%
Note diss po appears destroyed near dendritic pyrite veinlets

py → po
diss py 2-3%
py. on fav 1.28

58.3-58.6 matrix has a dark gray colour but no visible matrix!

SCALE 1:100

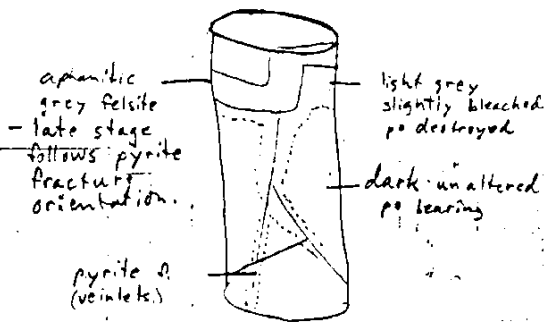
LOGGED BY GNC

PROJECT INCONSPICUOUS

HOLE NO. IN-83-S PAGE 4 OF 11

ROCK TYPE	ALTERATION		GANGUE		METALLIZATION		DETAIL	ASSAY-GEOCHEM		SAMPLE NO.	REMARKS	
	pervasive	VEIN	REMARKS	(est. %)	Depth	% RECOVERED		Au	Ag			
63 From 62.9 to 72.9 Light grey, indistinct matrix	mod. Prop. fsp+cc. chl+py.	vein		fsp phenocrysts indistinct. chlorite is alt. to pyrite	1-3% diss py 1-2% py on f. and in dendritic pyrite veins + r. fsp associated with co-2 q. micro-structures	64.00 108 65.53 95 67.97 91 69.34 108 70.10 64 70.56 78 71.00 54 71.62 61 71.92 86 72.24 107				Silicified cc. breccia 63.0-73.2 py. 50 den. py. 20-15° cc. 40° cc. 09	821 D .70 822 D 130	63.8 64.5 66.0
70 From 73.4 to 75.74 Light grey, Porphyry fsp predominantly alt to cc. (as above)	irregular q. m.f. cut py. f	3/10 mm	< 1		2-3% py m.f. on veins. 1-2% chlor py	73.30 90 73.60 110 75.15 85 75.44 86 75.74 76 76.2 80 77.27 67 77.75 72 78.49 81 78.80 51 79.86 110 80.16 53				67.0+68.9 g.m.f. From 68.1 to 73.0 80° Broken Core py. f., py. cc. f 20° to 70° thin a.lmm. siliceous micro- fractures are noted From 72.0 to 73.9	823 D 145	69.0 70.5 76.0 77.5
75 From 75.44 to 79.3 Light grey Porphyry Dark grey, fsp and chlorite phenocrysts present but not pronounced megascopically.	Strong prop. weak Arg.	py. v. 70° py. v. 20°	9/12m 6/12m	1-3 1-3	chlorite, cc. py, alt. knots < 3mm.					py. v. 73.9 to 75.15 70° & 20°	824 D	1.40
80 From 79.3 to 81.6 1/2 is light grey and porphyritic (mottled) and 1/2 is dark grey almost aphanitic.	weak Prop. increasing to mod. weak sericite?	fel. silite, ap. v. 70° fel. silite, ap. v. 20°	3/m	10/20	Sericite carries to Arg. Disseminated pyrite 1 to 2% Pyrite on fractures 1-1.5% Disseminated Pyrrhotite 2-3% increases with darker colour change in core	79.3				60' q.v. barren 10' cc. py (marc) f. 78.95-79.30 70' q.v. 79.10 60' q.v. 79.86	777 D 1.11 cont	79.3

76.1



SCALE 1:100 LOGGED BY GNC

PROJECT INCONSPICUOUS

HOLE NO. 11N-83-S PAGE 5 OF 11

ROCK TYPE	ALTERATION		GANGUE		METALLIZATION		DETAIL	ASSAY-GEOCHEM				SAMPLE NO.	REMARKS		
	pervasive	vein	REMARKS	(est. %)	DOOR	% RECOVERED		Au	Ag						
80	weak to moderate propylitic	CC, py f 80.6	1	1/3	see above	1/2 of core disc py 3-5%	80.61	71				see above	80.50		
From 81.60 to 84.13 Laxite Porphyry Light grey porphyritic matrix alt. to chlorite feldspars slightly alt to c.c. pyroxenite completely alt. to pyrite. 85 trace arsenopyrite From 84.13 to 86.40 As above with white Argillic selvages increasing in intensity through 86.40 From 86.40 to 1005 Alternating zones of weak to mod. propylitic altn.	Moderate to strong propylitic	cc, py, sm, sf 81.60	4/5m	1/4	chlorite in darker zone altered rx generally finer grained more B.C. disc, less propylitic	1/2 of core disc py 3-5%	81.08	76				778 D	81.69		
		py 82.70	1	1/2	81.85? lin B.C. a 4x2cm chst? xenolith? showing biotite	82.25 v 80.30 + tr. aspy.	81.69	78				779 D	82.25		
		gasp.	2/5m	1		chlorite + pyrite feldspar phenocrysts decrease chlorite increases	82.25 v 80.30 + tr. aspy.	82.24	95				780 D	84.15cm Fault Zone 810	
			4/10m	1/5		Chlorite + pyrite feldspar phenocrysts decrease chlorite increases	84.13 1% diss. py. 2% Argy. structural and veins	84.13	53				781 D	85.05cm FC 85.2	
			3/2m	1/10		85.9 to 86.4 fault zone, fault gouge and fault breccia fragments.	tr-1% diss py	85.35	79				782 D	105 86.4	
			3/2m	1/10		* Where py. and cc py. cut po rich with propylitic alt. pp alt. to py and small light grey smd. prop. selvages occur.	1% Rev. Locally 7%		59				783 D	110 88.09 CAVE Ground Core NOT SAMPLED	
						Light grey	diss py decreases to 88.39 po spy. 4-3%	88.09	33				784 D	118 B.C. 25cm	
							py > po 3% locally 7%	88.39	160				785 D	118 90.0	
							po > py 2-3%		40						
							py > po 2-3%	91.75	40						
85	Strong Argillic	py v	1/5	1-2	chlorite alt to pyrite. most of "matrix" phenocrysts is now blebs of py.		92.36	80							
		ccv					93.57	82							
									69				825 D	134 95.4 B.C., G.C. CAVE (NOT SO NOTED BY DRILLERS) 96.16	
									27				826 D	370 .8	
97						96.63	7				con 4				

SCALE 1:100 LOGGED BY GNC

PROJECT INCONSPICUOUS

HOLE NO. IN-83-S PAGE 6 OF 11

ROCK TYPE	ALTERATION			GANGUE REMARKS	METALLIZATION (est. %)	GROSS % RECOVERY	DETAIL	ASSAY-GEOCHEM				SAMPLE NO.	REMARKS
	pervasive	TYPE	VEIN					AU	AG				
97	S. Arg. Mod. to Strong Prop.	py. f	5/m	cl-1	Completely Kaol. Ehlorite, Ca. py. knots (as above)	98.4 → 99.0	97.69 70	97.24 Fault Gouge py. f. 30°	8	.2		827 D	1.03 98.2
	99.7 Very Strong Propylitic flooding?	py. chl. f.	2/m	1/3 -10	py. f. py. chl./py/pycc 1-2% po destroyed in for sebrages	98.4 → 100.0 INTENSE 15-20% PYRITE	89	py chl. f. 90° py chl. f. 40° 70° py. da gen chl. f. 0-6°	9	.2		828 D	1.42 99.6
-100	From 900.5 → 118.90 Latite Porphyry Dark grey with a very faint porphyritic texture.	py. chl. f.	2/m	1/3 -10		dis. po >> py 1-3%	101.04 89		9	.4		829 D	1.5 101.0
	Prop. alt. "flooding" along py/py. chl. f.						101.65 77					NS	101.5
-105	Mod.	py. chl. f	4/m	cl-1			104.55 90	py. chl. f. 40-60°	2	.1		830 D	1.5 105.0
	as above	ccv.	1	3			105.46 77		3	.1		831 D	1.44 106.5
							106.07 77					NS	
							106.99 84	ccv. 75°				NS	
							108.81 86					NS	
-110							108.81 86	py. chl. f. Commonly 40° 20°-70° occur.				NS	
							110.99 126					NS	
							112.31 83					NS	
							112.62 77					NS	
-114							113.99 93	ccv. 45°				NS	

121.75 Sulfides

Pyrite + arsenopyrite occur in fine grained lobbly masses often pseudomorphing cubic (py) and/or tetragonal (Aspy) crystal forms. Blebs are .5mm often less rarely 1mm.

Stibnite + Molybdenite is noticed as a blue grey mass but often covered by a thin layer of gangue so crystal habit could not be identified.

Pyrite + Arsenopyrite are sometimes intergrown (20%)

SCALE 1:100 LOGGED BY GNC

PROJECT INCONSPICUOUS

HOLE NO. 1N-83-S PAGE 8 OF 11

ROCK TYPE	ALTERATION		GANGUE REMARKS	METALLIZATION (est. %)	% REC	DETAIL	ASSAY-GEOCHEM			SAMPLE NO.	REMARKS		
	pervasive	V.811					Au	Ag	As ₁₀₀				
132. As above				Po>py >> Aspy tot. = 5-7% Mendritic pyrite 132.75	132.43	96	2° py. v 40° py ch. f. 0°/10° q.v. 30°	12	.2	.3	796 D	1.02	132.51
Mottled texture derived from chlorite knots and subsequent pyrite 135 to pyrite alt.	33.4-135.1 (135.4) Strong Arg 135.45 (135.55) to 136.25 Strong Arg. decreasing Arg. Prod. Prop	qv. Arg. alt. carries Aspy veining is absent pyrite f. occurs 3"/m	Kaolinite in fault zone is disc with Aspy. Core within 2cm of Gauge has a perussive blue colour as well. Below 136.25 chlorite knots are strongly Arg. like and q.v. c.c. and chlorite is almost completely alt.	25-30% Aspy in Fault Gauge between Faults 25-30% Aspy in F.G.	135.48	94	Fault Zone, 75% Fault Gauge Graphics indicated Fault Gauge will rock contact veined py f. between Fault Zone, 50% Fault Gauge	1250	.2	.4	797 D	.93	133.45
				PY 30 >> Aspy 3-5%	135.48	87		4900	.7	.8	798 D	1.63	135.0
				Fo>py >> Aspy 5-7%	138.53	87		4700	.8	1.1	799 D	1.53	136.5
						88	py. d. gen. cl. f. 40° py. v irregular cc. v. q.v.	115	.5	.5	800 D	1.66	139.0
140	141.0-141.75 increasing light grey	cc.v. tray qv.			141.73	88		9	.2	.3	801 D	1.37	139.5
		py.				93	py. d. gen. chl. f. 30-40° py. v. 15° py. chl. cc. f.	8	.1	.3	802 D	1.34	141.0
				Po>>py = 3%	144.78	93		9	.1	.3	803 D	1.5	142.5
145	From 145.9 to 155.15 DACITE TUFF Black, microcrystalline with abraded fragments and patchy alteration	increasing silicification	Fragments of black in in upper grey unit. Frag. 147.6	Po >> py 3-5%	145.88	100	30° Contact						147.0
					147.21	103	cc.v. 70°	3	.1		832 D	1.5	147.5
149					149.04	95	py chl. cc. c.				cont		

11
* check to see how
pervasive light green clay
alteration is.

SCALE 1:100 LOGGED BY GNC

PROJECT INCONSPICUOUS

HOLE NO. 1N-83-S PAGE 10 OF 11

ROCK TYPE	ALTERATION			GANGUE REMARKS	METALLIZATION (est. %)	Depth %	REMARKS	ASSAY-GEOCHEM				SAMPLE NO.	REMARKS	
	pervasive	vein	zone					Au	Ag					
166						166.72	43							
						167.48	92							
						167.94	106							
							43							
						169.16	63							
						169.46	83							
						169.77	83							
170						170.99	64							170.5
From 172.6 to 179.36 Dacite Tuff Black microcrystalline (as above)						172.05	79					836 D	1.4	172.0
						173.43	65							
						175.10	83							
175						176.02	85							
						176.63	83							
														177.5
						179.22	111					837 D	1.4	177.0
From 179.32 to 182.7 180 Latite Porphyry Light grey, prop. all.						180.44	81							
From 181.7 to 184.55 Dacite Tuff Black unit (as above)						183.18	102							

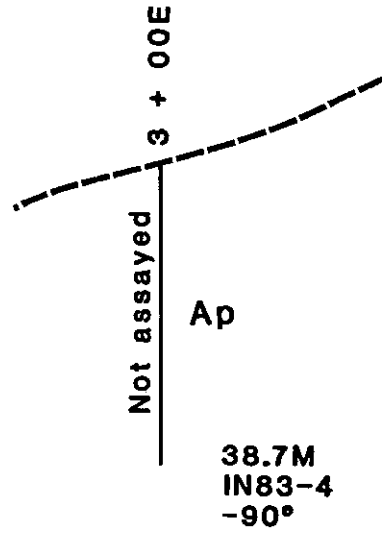
183.44-1821
ch. loc. py.
alt. quartz

SCALE 1:100 LOGGED BY GMC

PROJECT INCONSPICUOUS

HOLE NO. 1A1-83-S PAGE 11 OF 11

ROCK TYPE	ALTERATION			GANGUE REMARKS	METALLIZATION (est. %)	Depth	% REC	DETAIL	ASSAY-GEOCHEM				SAMPLE NO.	REMARKS	
	pervasive	YRIN	YRIN						Au	Ag					
183						183.48	90								
						184.55	87	E.O.H.				2	.1	838 D	LOG



Ap - Andesite porphyry,
mild propylitic alteration

SECTION 1 + 00 North
Looking Northeast

20 10 0 10 20M



Scale

HOMESTAKE 
MINERAL DEVELOPMENT COMPANY

INCONSPICUOUS PROPERTY
GEOLOGIC CROSS-SECTION

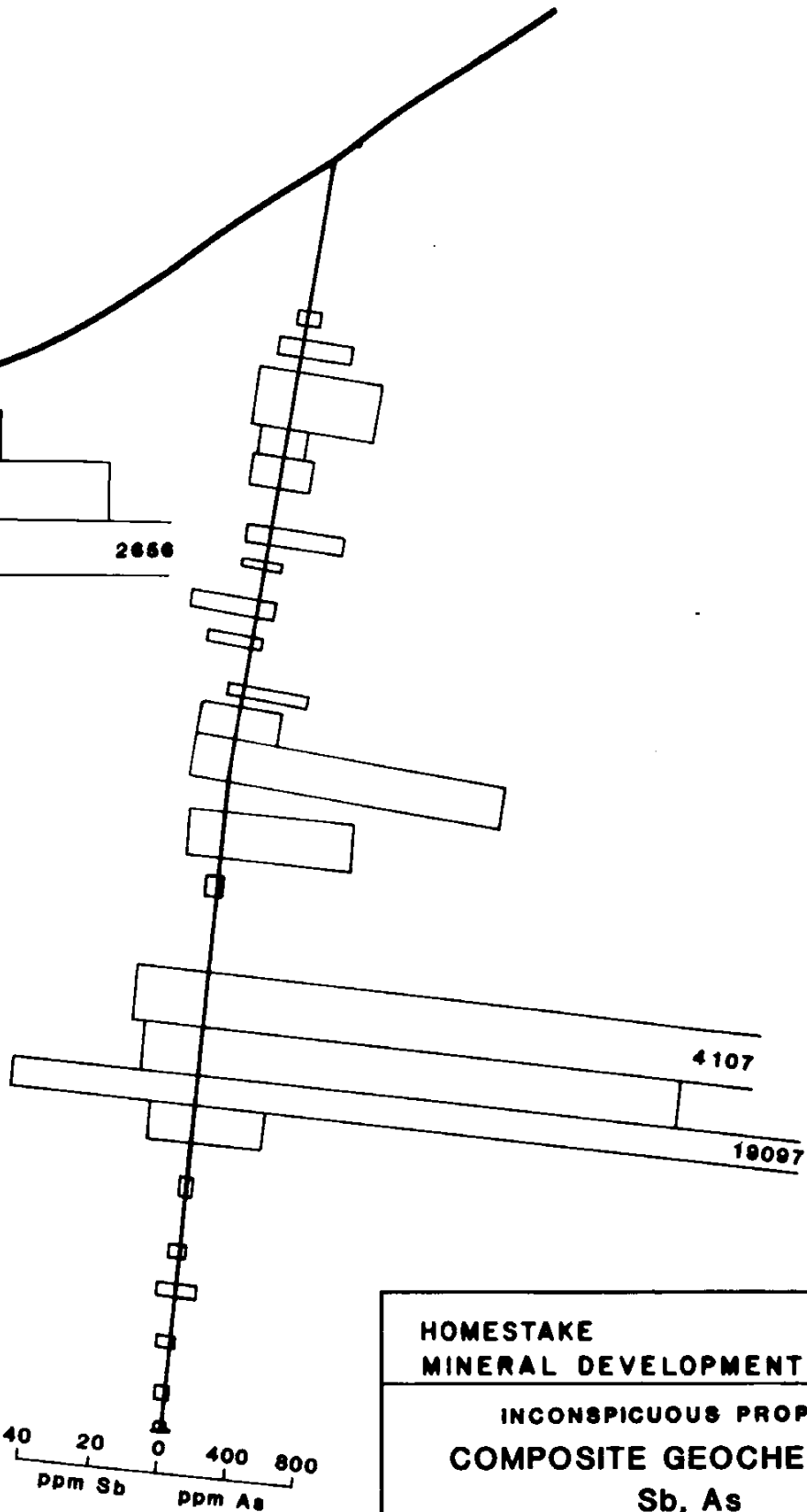
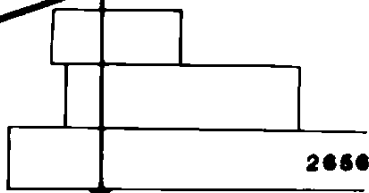
DRAWN	DATE	FILE CODE	
	Oct. 1983	NTS 103F/14	
Revised _____			

APPENDIX V

Diamond Drill Sections and Overlays

2+60E

3+00E



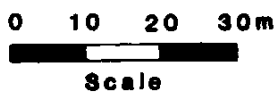
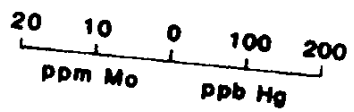
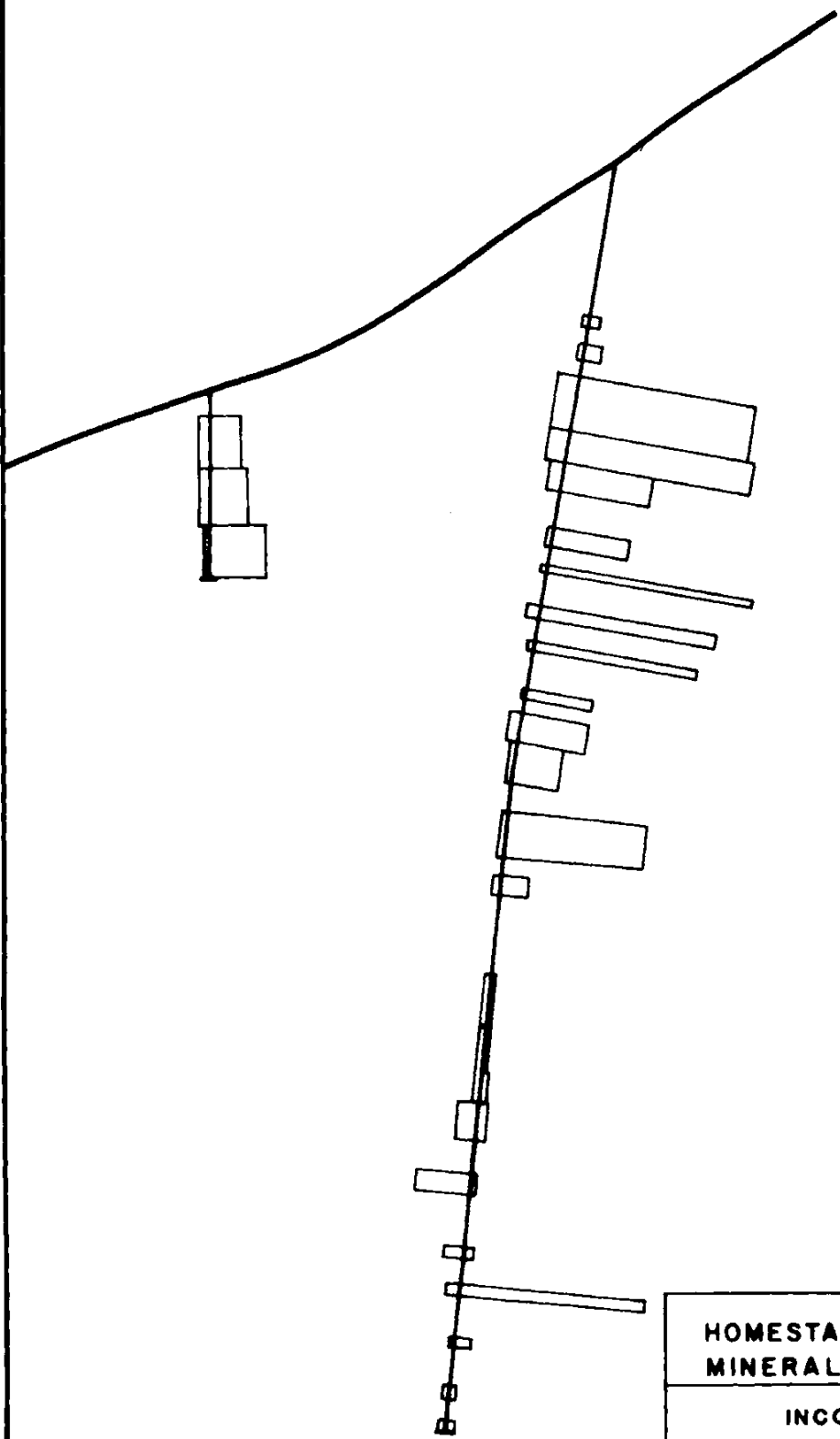
0 10 20 30m

Scale

HOMESTAKE MINERAL DEVELOPMENT COMPANY			
INCONSPICUOUS PROPERTY COMPOSITE GEOCHEMISTRY Sb, As Section 0+00			
DRAWN	DATE	FILE CODE	
	Jan. 1984	NTS	
Revised		103F/14	

2+50E

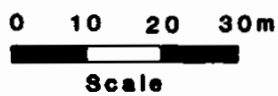
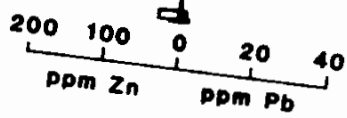
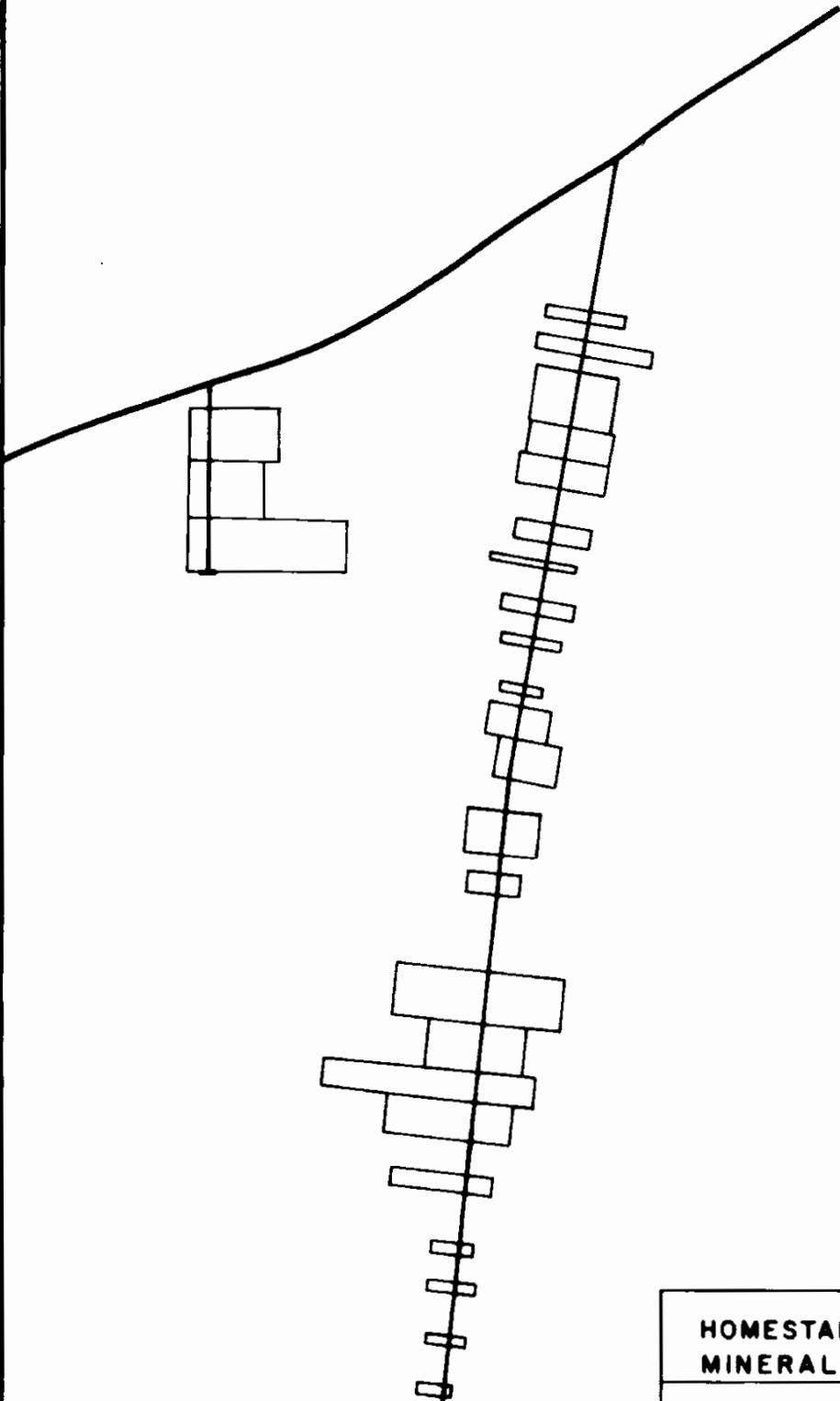
3+00E



HOMESTAKE			
MINERAL DEVELOPMENT COMPANY			
INCONSPICUOUS PROPERTY			
COMPOSITE GEOCHEMISTRY			
Mo, Hg			
Section 0+00			
DRAWN _____	DATE Jan. 1984	FILE CODE NTS 103F/14	
Revised _____			

2+50E

3+00E



HOMESTAKE MINERAL DEVELOPMENT COMPANY			
INCONSPICUOUS PROPERTY COMPOSITE GEOCHEMISTRY Zn, Pb Section 0+00			
DRAWN	DATE	FILE CODE	
	Jan. 1984	NTS	
Revised _____		103F/14	

2+50E

3+00E

IN-83-5

IN-83-1

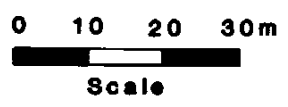
(1.03,)/1.37

LEGEND

IN-83-1 DDH Number
 (Au g/t, Ag g/t)/width, m

(1.1, 1.03)/.99

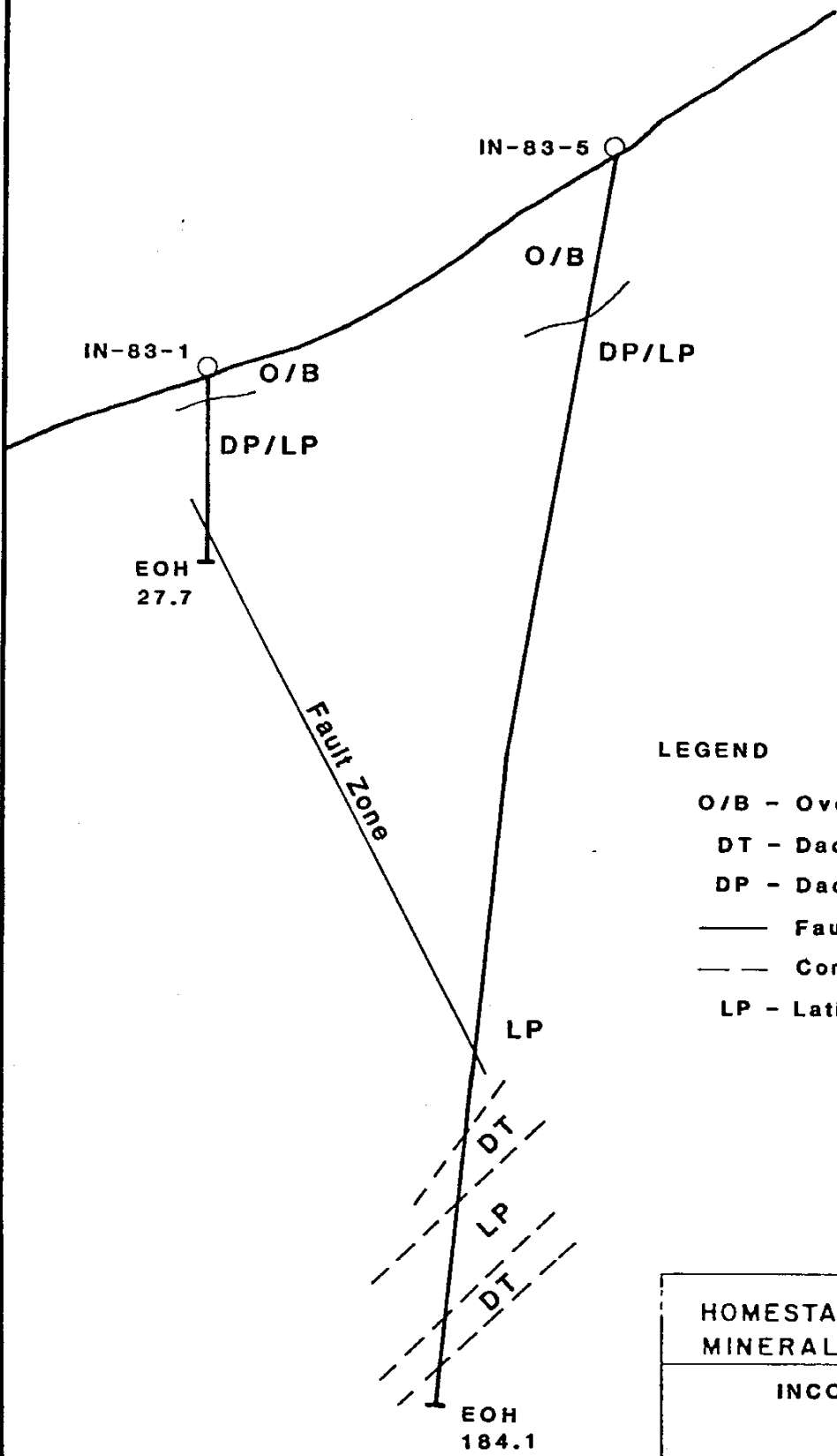
(5.90,.69)/1.55 (1.37,0.84)/.94
 (6.04,.69)/1.50



HOMESTAKE MINERAL DEVELOPMENT COMPANY			
INCONSPICUOUS PROPERTY			
MINERALIZATION			
Section 0+00			
DRAWN	DATE	FILE CODE	
	Jan. 1984	NTS	
Revised		103F/14	

2+50E

3+00E



LEGEND

- O/B - Overburden
- DT - Dacite Tuff
- DP - Dacite Porphyry
- Fault
- - - Contact
- LP - Latite Porphyry

HOMESTAKE 
 MINERAL DEVELOPMENT COMPANY

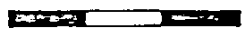
INCONSPICUOUS PROPERTY

GEOLOGY

Section 0+00

DRAWN	DATE	FILE CODE	
	Jan. 1984	NTS	
Revised		103F/14	

0 10 20 30m



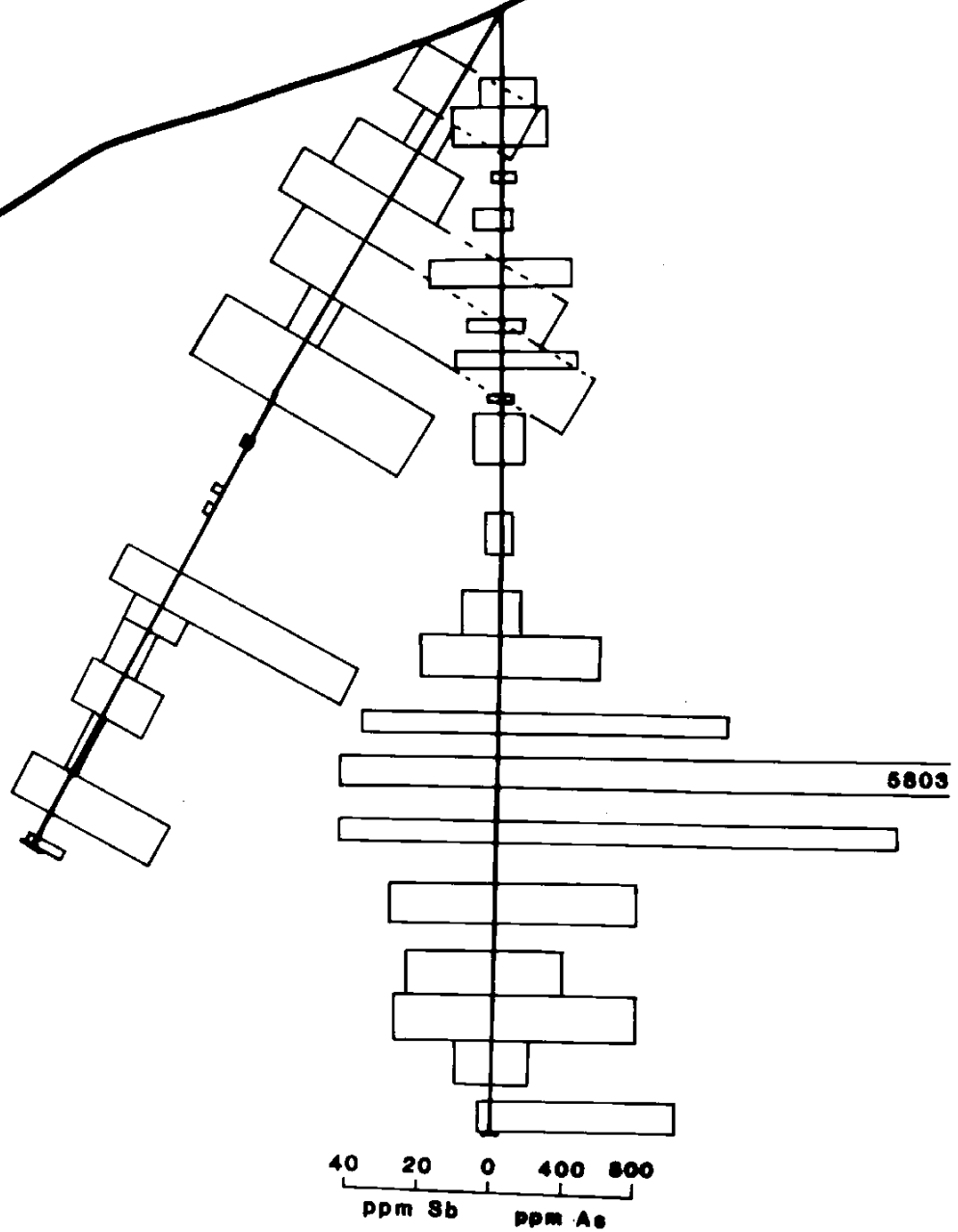
Scale

1+50E

2+00E

2+50E

3+00E

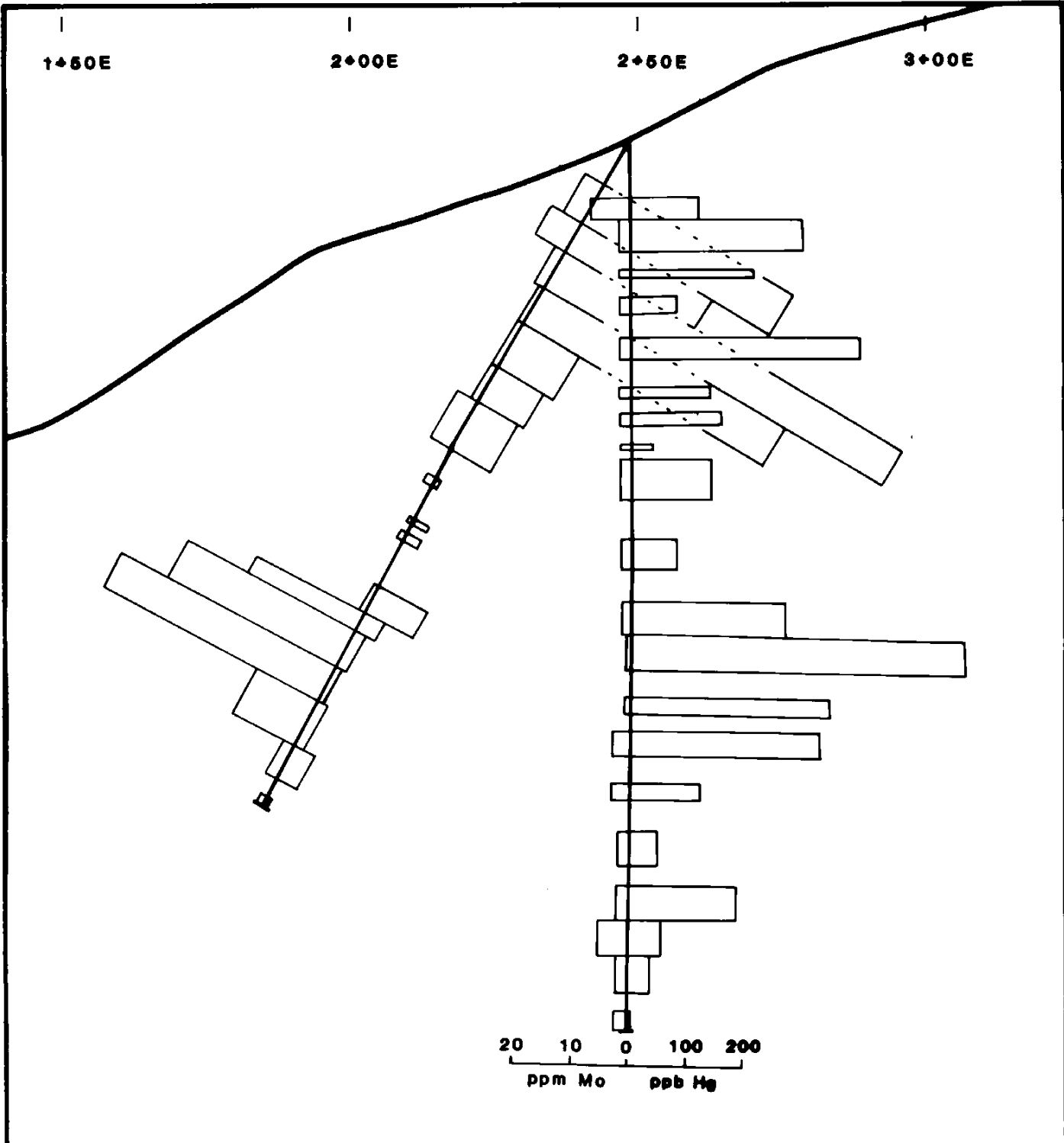


HOMESTAKE
MINERAL DEVELOPMENT COMPANY


INCONSPICUOUS PROPERTY
COMPOSITE GEOCHEMISTRY
Sb, As

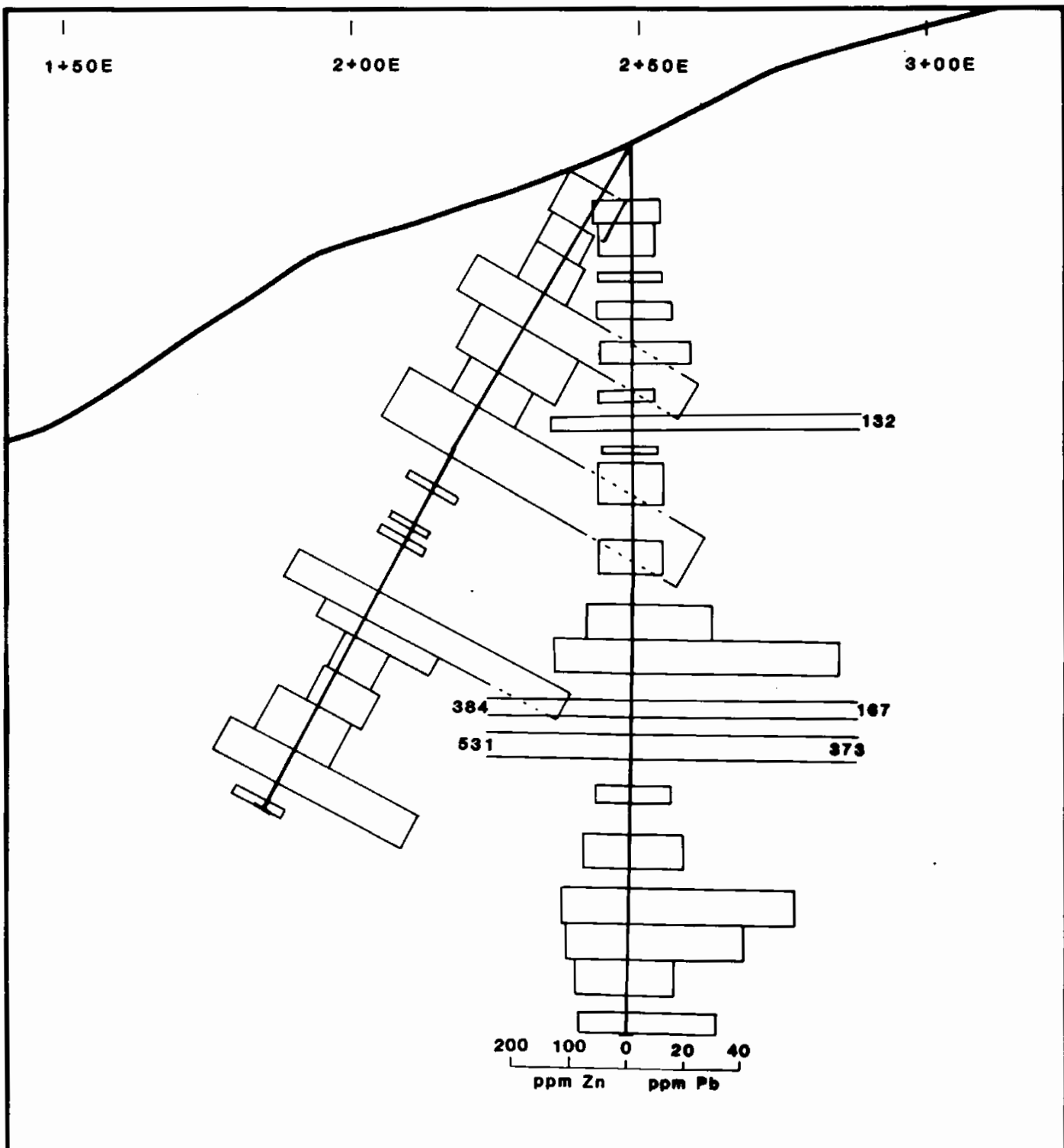
Section 1+008

DRAWN	DATE	FILE CODE
	Jan. 1984	NTS
Revised		103F/14



0 10 20 30m
Scale

HOMESTAKE MINERAL DEVELOPMENT COMPANY			
INCONSPICUOUS PROPERTY COMPOSITE GEOCHEMISTRY Mo, Hg Section 1+008			
DRAWN	DATE	FILE CODE	
	Jan. 1984	NTS 108F/14	
Revised _____			



HOMESTAKE MINERAL DEVELOPMENT COMPANY		
INCONSPICUOUS PROPERTY COMPOSITE GEOCHEMISTRY Zn, Pb Section 1+008		
DRAWN	DATE	FILE CODE
	Jan. 1984	NTS
Revised _____		103F/14

1+50E

2+00E

2+50E

3+00E

(1.23,)/1.16

(0.69, 5.49)/0.6

(. 3.00)/1.36

(0.93,)/1.39

(2.37,)/0.42

(1.17,)/0.48

LEGEND

IN-83-1

DDH Number

(Au g/t, Ag g/t)/width,m

0 10 20 30m



Scale

HOMESTAKE MINERAL DEVELOPMENT COMPANY



INCONSPICUOUS PROPERTY

MINERALIZATION

Section 1+008

DRAWN

DATE

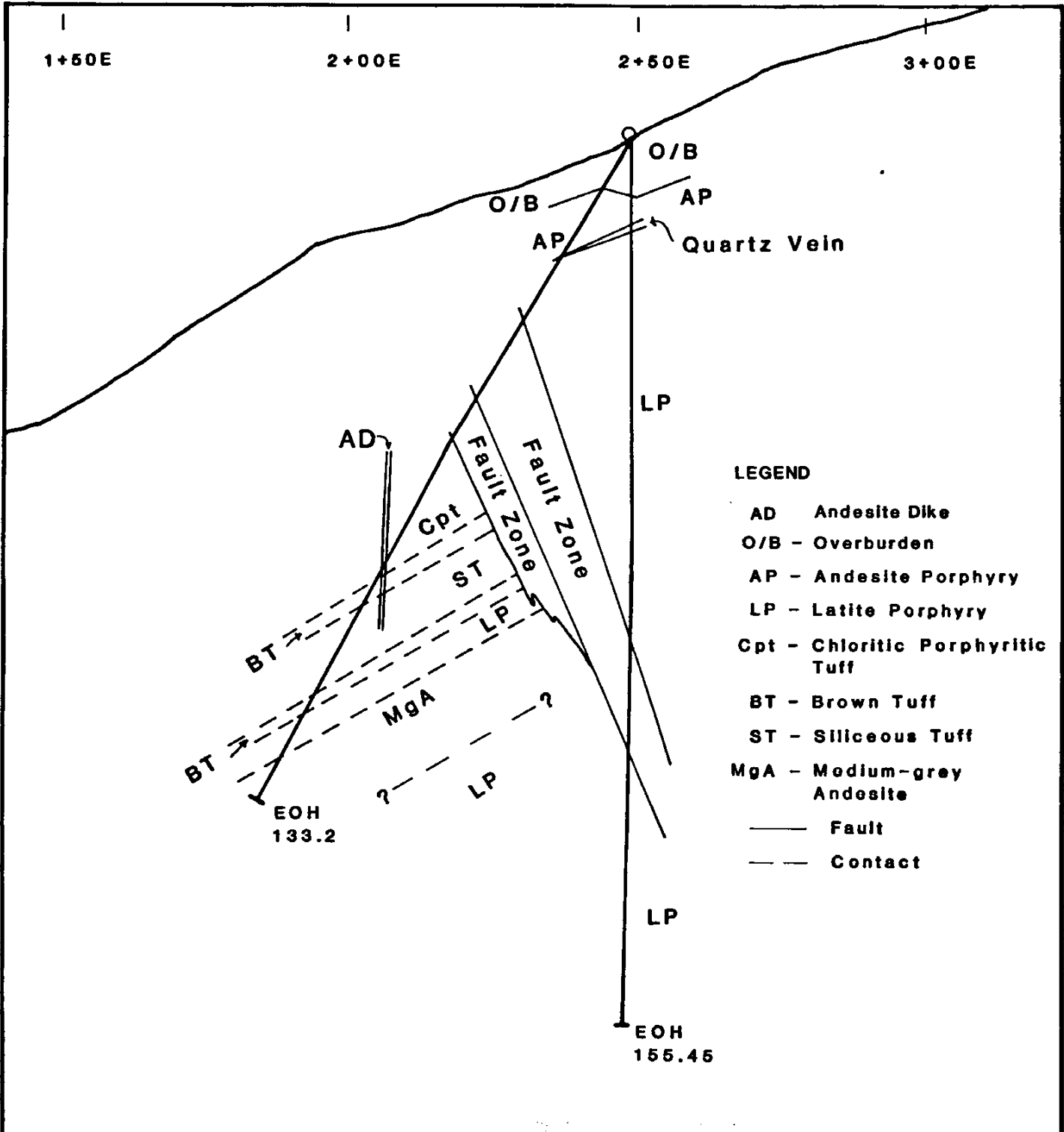
FILE CODE

Jan. 1984

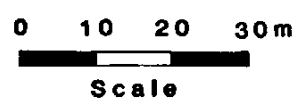
NTS

103F/14

Revised



- LEGEND**
- AD - Andesite Dike
 - O/B - Overburden
 - AP - Andesite Porphyry
 - LP - Latite Porphyry
 - Cpt - Chloritic Porphyritic Tuff
 - BT - Brown Tuff
 - ST - Siliceous Tuff
 - MgA - Modium-grey Andesite
 - Fault
 - - - Contact



HOMESTAKE MINERAL DEVELOPMENT COMPANY			
INCONSPICUOUS PROPERTY GEOLOGY Section 1+00S			
DRAWN	DATE	FILE CODE	
	Jan. 1984	NTS	
Revised _____		103F/14	

APPENDIX VI
Geochemical Results

C-RTB

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

DATE RECEIVED OCT 7 1983
DATE REPORTS MAILED Oct 13/83

GEOCHEMICAL ASSAY CERTIFICATE

A .500 GM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.
THE SAMPLE IS DILUTED TO 10 MLS WITH WATER. ELEMENTS ANALYSED BY AA : AG.
SAMPLE TYPE : CORE - CRUSHED AND PRULVERIZED TO -100 MESH.
AU** - INCLUDING PD, PT 10 GM, FIRE ASSAY CONCENTRATION, HNO3 LEACH OFF AG,
AQUA REGIA DIGESTION, GRAPHITE AA ANALYSIS.

ASSAYER Dean Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE MINERALS PROJECT # INCONSPICUOUS FILE # 83-2478 PAGE# 1

SAMPLE	AG PPM	AU** PPB
600D	1.5	21
601D	1.1	50
602D	.9	5
603D	.9	22
604D	1.7	100
605D	1.0	60
606D	.9	100
607D	1.0	55
608D	.4	7
609D	.6	17
610D	.9	7
611D	1.4	155
612D	3.7	275
613D	3.3	290
614D	2.6	210
615D	4.8	830
616D	3.4	235
617D	1.9	270
618D	2.3	205
619D	2.1	700

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

DATE RECEIVED OCT 1983

DATE REPORTS MAILED Oct 1983

ASSAY CERTIFICATE

SAMPLE TYPE : PULP
AU BY FIRE ASSAY

ASSAYER Dean Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE MINERALS PROJECT # INCONSPICUOUS FILE # RE:83-247B PAGE# 1

SAMPLE

AU
OZ/TON

615D

.030

Reassay high values

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

DATE RECEIVED NOV 25 1983

DATE REPORTS MAILED Nov 29/83

C - 110510 2 1110
-C- R7B
C - 1175

ASSAY CERTIFICATE

SAMPLE TYPE : PULP

ASSAYER Dean Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE PROJECT # INCONSPICUOUS FILE # RE: 83-2478 PAGE# 1

SAMPLE	AU OZ/TON
614D	.007
616D	.008
617D	.008
618D	.007
619D	.025

Reassay high values

C-NTB

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

DATE RECEIVED OCT 12 1983

DATE REPORTS MAILED Oct 18/83

GEOCHEMICAL ASSAY CERTIFICATE

A .500 GM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.
THE SAMPLE IS DILUTED TO 10 MLS WITH WATER. ELEMENTS ANALYSED BY AA : AG.
SAMPLE TYPE : CORE - CRUSHED AND PRULVERIZED TO -100 MESH.
AU** - INCLUDING PD, PT 10 GM, FIRE ASSAY CONCENTRATION, HNO3 LEACH OFF AG,
AQUA REGIA DIGESTION, GRAPHITE AA ANALYSIS.

ASSAYER Deane Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE MINERALS PROJECT # INCONSPICUOUS FILE # 83-2519 PAGE# 1

SAMPLE	AG PPM	AU** PPB
620D	.3	16
621D	.1	37
622D	.4	13
623D	.3	4
624D	.5	3
625D	.3	10
626D	.4	11
627D	.2	8
628D	.4	6
629D	.5	19
630D	.3	5
631D	.4	11
632D	.3	4
633D	.7	29
634D	.9	45
635D	.6	16
636D	.1	4
637D	.3	17
638D	.6	18
639D	1.3	29
640D	.4	5
641D	.3	3
642D	.1	8
643D	.4	17

C- R1B

1110

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

DATE RECEIVED OCT 14 1983

DATE REPORTS MAILED Oct 29/83

GEOCHEMICAL ASSAY CERTIFICATE

A .500 GM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.
THE SAMPLE IS DILUTED TO 10 MLS WITH WATER. ELEMENTS ANALYSED BY AA : AG.
SAMPLE TYPE : CORE - CRUSHED AND PRULVERIZED TO -100 MESH.
AU** - INCLUDING PD, PT 10 GM, FIRE ASSAY CONCENTRATION, HNO3 LEACH OFF AG,
AQUA REGIA DIGESTION, GRAPHITE AA ANALYSIS.

ASSAYER Dean Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE MINERALS PROJECT # INCONSPICUOUS FILE # 83-2582 PAGE# 1

SAMPLE	AG PPM	AU** PPB
644D	.3	8
645D	.3	10
646D	.3	2
647D	.1	9
648D	.1	4
649D	.2	7
650D	.4	8
651D	.2	4
652D	.1	3
653D	.4	3
654D	.3	4
655D	.3	9
656D	.3	8
657D	.5	115
658D	1.0	44
659D	.6	51
665D	.8	60
666D	3.2	1920
667D	.9	460
670D	.6	195
671D	.7	270
679D	.5	85
682D	.5	23
683D	.9	1040
684D	.6	65

C- RTB

ACME ANALYTICAL LABORATORIES LTD.
352 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

DATE RECEIVED OCT 14 1983

DATE REPORTS MAILED Oct 21/83

ASSAY CERTIFICATE

SAMPLE TYPE : PULP
AU BY FIRE ASSAY

ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE PROJECT # INCONSPICUOUS FILE # RE: 83-2582 PAGE# 1

SAMPLE AU
OZ/TON

666D .069
683D .034

Reassay high values

CME ANALYTICAL LABORATORIES LTD.
52 E. HASTINGS, VANCOUVER B.C.
4:253-3158 TELEX:04-53124

C - RIB
C - NTS
DATE RECEIVED OCT 18 1983

DATE REPORTS MAILED Oct 25/83

GEOCHEMICAL ASSAY CERTIFICATE

A .500 GM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.

THE SAMPLE IS DILUTED TO 10 MLS WITH WATER. ELEMENTS ANALYSED BY AA : AG.

SAMPLE TYPE : CORE - CRUSHED AND PRULVERIZED TO -100 MESH.

AU** - INCLUDING PD, PT 10 GM, FIRE ASSAY CONCENTRATION, HNO3 LEACH OFF AG,
AQUA REGIA DIGESTION, GRAPHITE AA ANALYSIS.

ASSAYER De Toy DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE MINERALS PROJECT # INCONSPIC FILE # 83-2611 PAGE# 1

SAMPLE	AG PPM	AU** PPB
660D	.4	32
661D	1.6	80
662D	3.3	410
663D	1.4	780
664D	1.4	465
668D	.1	34
669D	.1	14
672D	.1	32
673D	.5	120
674D	.1	15
675D	.3	20
676D	.4	4
677D	.3	29
678D	.4	70
680D	.1	10
681D	.2	11

C - NTS
C - NTS
C - Master

SP

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

DATE RECEIVED OCT 18 1983

DATE REPORTS MAILED Oct 28/83

ASSAY CERTIFICATE

SAMPLE TYPE : PULP
AG & AU BY FIRE ASSAY

ASSAYER W. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE MINERALS PROJECT # INCONSPIC FILE # RE: 83-2611 PAGE# 1

SAMPLE	AG OZ/TON	AU OZ/TON
662D	.09	-
663D	-	.027

Reassay high values

ROCK SAMPLES

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH: 253-3158 TELEX: 04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
 THIS LEACH IS PARTIAL FOR: Ca, P, Mg, Al, Ti, La, Na, K, W, Ba, Si, Sr, Cr AND B. Au DETECTION 3 ppm.
 AU: ANALYSIS FROM 10 GRAM FA+AA. HGT ANALYSIS BY FLAMELESS AA FROM .500 GRAM SAMPLE. SAMPLE TYPE - ROCK CHIPS

DATE RECEIVED OCT 18 1983 DATE REPORTS MAILED Oct 25/83 ASSAYER Deane DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE MINERAL PROJECT # INCONSPIC FILE # 83-2611

PAGE # 2

SAMPLE #	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au1	Hgt
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
5926	9	50	32	97	2.1	23	18	298	3.57	2574	2	ND	2	18	1	35	2	28	.48	.07	7	10	1.33	28	.01	4	1.90	.01	.18	2	700	2000
5936	6	38	125	108	3.6	3	3	111	3.84	6492	2	5	2	15	1	68	2	13	.02	.08	8	3	.08	35	.01	5	.56	.01	.20	2	4100	860

rubblecrop grab samples

CME ANALYTICAL LABORATORIES LTD.
52 E. HASTINGS, VANCOUVER B.C.
H:253-3158 TELEX:04-53124

C - R7B
C - N17J
DATE RECEIVED OCT 19 1983

DATE REPORTS MAILED Oct 25/83

GEOCHEMICAL ASSAY CERTIFICATE

A .500 GM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.

THE SAMPLE IS DILUTED TO 10 MLS WITH WATER. ELEMENTS ANALYSED BY AA : AG.

SAMPLE TYPE : CORE - CRUSHED AND PRULVERIZED TO -100 MESH.

AU** - INCLUDING PD, PT 10 GM, FIRE ASSAY CONCENTRATION, HNO3 LEACH OFF AG,
AQUA REGIA DIGESTION, GRAPHITE AA ANALYSIS.

ASSAYER Dean Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE MINERALS PROJECT # INCONSPICUOUS FILE # 83-2629A PAGE# 1

SAMPLE	AG PPM	AU** PPB
685D	.1	9
686D	.2	4
687D	.2	18
688D	.6	26
689D	.1	38
690D	.1	60
691D	.3	7
692D	.4	22
693D	.2	16
694D	.1	19
695D	.1	10
696D	.1	4
697D	.4	4
698D	.4	21
699D	.1	42
700D	.1	5
701D	.1	4
702D	.2	12
703D	.4	3
704D	.2	10
705D	.4	19
706D	.1	20
707D	.1	8
708D	.2	9
709D	.2	25
710D	.2	19

HOME ANALYTICAL LABORATORIES LTD.
52 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

DATE RECEIVED OCT 19 1983

DATE REPORTS MAILED Oct 25/83

ASSAY CERTIFICATE

SAMPLE TYPE : PULP

ASSAYER De Toy DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE MINERALS PROJECT # INCONSPICUOUS FILE # 83-2629B PAGE# 1

SAMPLE	AG OZ/TON	AU OZ/TON	
594G	1.31	.192	Homestake Standard
595G	.13	.035	Homestake Standard

404 100 100

11/10/83

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

DATE RECEIVED OCT 24 1983

DATE REPORTS MAILED Nov 3/83

GEOCHEMICAL ASSAY CERTIFICATE

A .500 GM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO₃ TO H₂O AT 90 DEG.C. FOR 1 HOUR.
THE SAMPLE IS DILUTED TO 10 MLS WITH WATER. ELEMENTS ANALYSED BY AA : AG.
SAMPLE TYPE : P1 CORE P2 ROCK
AU** - INCLUDING PD, PT 10 GM, FIRE ASSAY CONCENTRATION, HNO₃ LEACH OFF AG,
AQUA REGIA DIGESTION, GRAPHITE AA ANALYSIS.

ASSAYER Dean Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE PROJECT # INCON FILE # 83-2668 PAGE# 1

SAMPLE	AG PPM	AU** PPB
747D	.6	26
748D	.7	32
749D	.4	28
750D	.3	16
751D	.3	21

✓ C - 1175
C - 1175

ROCK SAMPLES

A

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.

THIS LEACH IS PARTIAL FOR: Ca, P, Mg, Al, Ti, La, Na, K, W, Ba, Si, Sr, Cr AND B. Au DETECTION 3 ppm.

AU** ANALYSIS FROM 10 GRAM FA+AA. HG* ANALYSIS BY FLAMELESS AA FROM .500 GRAM SAMPLE. SAMPLE TYPE ~~FA+AA~~ P2 ROCK

DATE RECEIVED OCT 24 1983 DATE REPORTS MAILED Nov 3/83 ASSAYER D. Toep DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE PROJECT # INCON FILE # 83-2668

PAGE # 2

SAMPLE #	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*	Hg*	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm	ppb	ppb
5966	1	38	8	52	.1	30	13	228	3.28	192	2	ND	2	51	1	2	2	79	.67	.07	6	33	1.33	64	.10	6	3.28	.25	.30	2	26	150	

rubble crop grab sample.

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH:253-3158 TELEX:04-53124

C - K73
C - N75
DATE RECEIVED OCT 28 1983

DATE REPORTS MAILED Nov 3/83

GEOCHEMICAL ASSAY CERTIFICATE

A .500 GM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.
THE SAMPLE IS DILUTED TO 10 MLS WITH WATER. ELEMENTS ANALYSED BY AA : AG.
SAMPLE TYPE : CORE - CRUSHED AND PRULVERIZED TO -100 MESH.
AU** - INCLUDING PD, PT 10 GM, FIRE ASSAY CONCENTRATION, HNO3 LEACH OFF AG,
AQUA REGIA DIGESTION, GRAPHITE AA ANALYSIS.

ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE MINERALS PROJECT # INCONSPICUOUS FILE # 83-2730 PAGE# 1

SAMPLE	AG PFM	AU** PFB
711D	.6	22
712D	.7	50
713D	.4	15
714D	.2	5
715D	.6	26
716D	1.4	375
717D	1.6	1050
718D	.9	350
719D	.8	270
720D	.3	18
721D	.4	10
722D	.3	29

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

CERTIFICATE
C-1173
C-1173

DATE RECEIVED OCT 28 1983

DATE REPORTS MAILED Nov 7/83

ASSAY CERTIFICATE

SAMPLE TYPE : PULP

ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE PROJECT # INCONSPICUOUS FILE # RE: 83-2730 PAGE# 1

SAMPLE

AU
OZ/TON

717D

.036

Reassay high value

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

DATE RECEIVED NOV 25 1983

DATE REPORTS MAILED Nov 29/83

✓ C- R78
C- N15

ASSAY CERTIFICATE

SAMPLE TYPE : PULP

ASSAYER Dean Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE PROJECT # INCONSPICUOUS FILE # RE: 83-2730 PAGE# 1

SAMPLE	AU OZ/TON
716D	.016
718D	.014
719D	.011

Reassay high values

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

DATE RECEIVED NOV 25 1983

DATE REPORTS MAILED _____

ASSAY CERTIFICATE

SAMPLE TYPE : PULP

ASSAYER _____ DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE PROJECT # INCONSPICUOUS FILE # RE: 83-2611 PAGE# 1

SAMPLE	AU OZ/TON
662D	.017
664D	.019

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

DATE RECEIVED NOV 25 1983

DATE REPORTS MAILED _____

ASSAY CERTIFICATE

SAMPLE TYPE : PULP

ASSAYER _____ DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE PROJECT # INCONSPICUOUS FILE # RE: 83-2582 PAGE# 1

SAMPLE	AU OZ/TON
667D	.015

Nov 19/83

GEOCHEMICAL ASSAY CERTIFICATE

A .500 GM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.
THE SAMPLE IS DILUTED TO 10 MLS WITH WATER. ELEMENTS ANALYSED BY AA : AG.
SAMPLE TYPE : CORE - CRUSHED AND PRULVERIZED TO -100 MESH.
AU** - INCLUDING PD, PT 10 GM, FIRE ASSAY CONCENTRATION, HNO3 LEACH OFF AG,
AQUA REGIA DIGESTION, GRAPHITE AA ANALYSIS.

ASSAYER Dean Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE MINERALS PROJECT # INCONSPICUOUS FILE # 83-2801 PAGE# 1

SAMPLE	AG PPM	AU** PPB
730D	5.4	510
731D	.7	49
732D	.4	44
733D	.6	55
734D	1.8	38
735D	1.0	80
736D	2.0	255
744D	.7	70
745D	.4	32
746D	.4	18
752D	.2	7
753D	.2	5
754D	.2	4
755D	.1	14
756D	.3	25
757D	.2	29
758D	.2	36
759D	.1	45
760D	.1	7
761D	.2	16
762D	.2	4
763D	.5	8
777D	.1	6
778D	.3	7
779D	.2	11
780D	.2	10
781D	.5	14
782D	.6	50
783D	.4	4
784D	.3	7
785D	.4	10
786D	1.0	75
787D	1.4	770
788D	.9	90
789D	.6	55
790D	.8	43

SAMPLE	AG PPM	AU** PPB
791D	.3	35
792D	.3	42
793D	.4	4
794D	.3	51
795D	.4	110

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH:253-3158 TELEX:04-53124

CC - RTB
C - NTS
DATE RECEIVED NOV 10 1983

DATE REPORTS MAILED *Nov 15/83*

ASSAY CERTIFICATE

SAMPLE TYPE : PULP
AG & AU BY FIRE ASSAY

ASSAYER *D. Toy* DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE PROJECT # INCONSPICUOUS FILE # RE: 83-2801 PAGE# 1

SAMPLE	AG	AU
	OZ/TON	OZ/TON
730D	.16	.020
787D	.03	.032

Reassay high values.

VC - 1105 for file
 VC - RTB
 C - NTS

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
 THIS LEACH IS PARTIAL FOR: Ca, P, Mg, Al, Ti, La, Na, K, W, Ba, Si, Sr, Cr AND B. Au DETECTION 3 ppm.
 AU: ANALYSIS FROM 10 GRAM FA+AA. SAMPLE TYPE - CORE

ICP Analysed but not requested.

DATE RECEIVED NOV 4 1983 DATE REPORTS MAILED Nov 10/83 ASSAYER D. J. J. DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE MINERALS PROJECT # INCONSPICUOUS FILE # B3-283BA PAGE # 1

SAMPLE #	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au:1
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb
7230	1	16	41	52	1.0	4	6	178	2.26	527	2	ND	2	13	1	18	2	6	.33	.05	8	4	1.08	57	.01	6	1.13	.02	.22	2	75
7240	1	13	9	50	.3	4	6	279	1.64	85	2	ND	2	17	1	14	2	9	.42	.05	11	3	1.68	70	.01	5	1.38	.03	.24	2	18
7250	1	12	6	46	.2	3	6	514	1.83	55	2	ND	2	15	1	6	2	10	.91	.05	10	4	1.58	60	.01	6	1.36	.02	.20	2	10
7260	1	12	10	46	.3	4	6	397	1.93	90	2	ND	2	18	1	8	2	10	.74	.05	10	4	1.71	55	.01	5	1.35	.02	.20	2	13
7270	1	12	10	48	.2	4	6	515	1.91	20	2	ND	2	15	1	3	2	11	1.00	.05	11	4	1.34	57	.01	5	1.30	.02	.19	2	4
7280	1	12	9	50	.2	3	6	337	2.09	23	2	ND	2	15	1	6	2	14	.60	.05	11	4	1.18	61	.01	6	1.44	.03	.18	2	3
7290	2	15	40	75	.3	6	7	630	2.49	227	2	ND	2	19	1	9	2	19	.95	.05	7	9	1.79	53	.01	6	1.59	.02	.18	2	17
7370	1	11	6	48	.1	4	6	424	2.07	16	2	ND	2	26	1	2	2	18	1.51	.05	8	6	.70	52	.01	3	1.27	.03	.16	2	3
7380	2	11	10	45	.1	6	7	508	2.34	4	2	ND	2	37	1	2	2	25	1.99	.05	8	8	1.12	48	.01	4	1.55	.03	.18	2	8
7390	1	12	8	44	.2	4	6	447	2.05	2	3	ND	2	31	1	2	2	14	1.88	.05	10	5	1.17	68	.01	5	1.54	.03	.21	2	7
7400	1	12	11	47	.3	4	6	440	2.23	2	2	ND	2	33	1	2	2	20	1.46	.05	9	5	1.17	61	.01	5	1.58	.03	.18	2	3
7410	1	34	54	150	.5	28	17	661	4.97	94	2	ND	2	18	2	7	2	100	.72	.09	7	47	2.11	63	.01	7	2.93	.03	.19	2	10
7420	1	17	51	146	.7	18	13	1099	4.82	563	2	ND	2	20	1	10	2	61	1.29	.07	8	28	2.19	46	.01	7	2.37	.01	.20	2	60
7430	2	33	163	180	1.6	19	12	580	3.75	3113	2	ND	2	18	2	36	2	37	.75	.06	6	18	1.73	41	.01	6	1.62	.01	.21	2	220
7640	1	18	8	81	.2	30	14	566	4.25	57	3	ND	2	17	1	7	2	71	.44	.05	8	44	1.46	60	.02	6	2.68	.02	.23	2	2
7650	4	31	3	64	.1	34	16	464	4.40	21	2	ND	2	22	1	2	2	70	.47	.06	8	50	1.47	81	.03	7	2.68	.02	.24	2	1
7660	4	36	7	106	.1	19	11	533	2.98	17	2	ND	2	30	1	4	2	51	1.79	.06	5	23	1.31	52	.05	5	1.90	.05	.12	2	1
7670	85	27	3	80	.1	24	12	627	3.19	2	2	ND	2	27	1	6	2	51	2.19	.06	7	25	1.27	34	.04	4	1.84	.04	.11	2	2
7680	3	25	8	73	.1	25	12	727	3.34	17	3	ND	2	30	1	8	2	56	2.12	.06	7	27	1.39	99	.07	5	2.00	.05	.12	2	1
7690	1	28	11	55	.1	24	12	650	3.22	19	2	ND	2	25	1	6	2	54	1.67	.06	8	26	1.38	45	.06	6	1.97	.06	.12	2	1
7700	1	30	21	57	.3	25	12	691	3.16	43	3	ND	2	27	1	2	2	61	1.86	.06	7	25	1.44	44	.05	6	2.08	.05	.14	2	1
7710	2	32	169	260	.6	24	12	641	3.34	151	2	ND	2	27	1	15	2	45	1.93	.06	10	22	1.44	54	.01	5	1.94	.04	.13	2	11
7720	2	26	18	107	.4	24	12	698	3.26	1576	4	ND	2	38	1	15	2	48	2.48	.07	12	25	1.48	68	.01	5	1.95	.03	.16	2	180
7730	2	27	8	71	.4	8	9	560	3.06	222	2	ND	2	41	1	9	2	41	2.44	.08	13	8	1.01	58	.01	5	1.53	.03	.17	2	24
7740	1	20	17	80	.5	4	8	495	3.09	1032	2	ND	2	27	1	20	2	33	1.47	.08	11	4	.97	56	.01	5	1.39	.03	.17	2	130
7750	1	20	23	61	.2	4	9	680	3.52	35	2	ND	2	44	1	3	2	45	1.79	.09	11	5	.97	53	.01	5	1.57	.05	.15	2	4
7760	1	20	5	56	.2	4	9	626	3.49	172	2	ND	2	46	1	2	2	50	2.13	.09	11	3	.91	52	.01	4	1.55	.05	.15	2	31
7960	1	38	8	73	.3	15	8	663	2.46	92	6	ND	2	47	1	9	3	21	2.66	.04	5	9	.88	45	.01	4	.93	.02	.17	2	12
7970	1	40	11	26	.4	15	9	704	2.47	9780	2	ND	2	30	1	32	2	12	2.13	.04	5	6	.80	32	.01	4	.73	.01	.19	2	1250
7980	1	32	16	143	.8	17	9	1280	3.24	27371	4	5	2	27	1	56	2	8	2.94	.05	6	5	1.31	32	.01	4	.47	.01	.22	2	4900
7990	1	26	17	385	1.1	16	8	1089	3.04	17847	7	5	2	33	2	60	2	8	2.91	.04	5	5	1.37	34	.01	5	.59	.01	.21	2	4700
8000	1	36	16	267	.5	15	9	797	2.61	580	5	ND	2	30	2	22	2	15	2.61	.04	5	6	1.26	39	.01	5	.80	.02	.17	2	115
8010	1	30	10	25	.3	16	9	582	2.54	214	5	ND	2	28	1	10	2	24	2.28	.04	5	9	1.10	48	.01	5	1.01	.03	.16	2	9
8020	2	35	5	32	.3	15	8	657	2.39	227	2	ND	2	23	1	9	2	25	2.19	.04	5	9	1.24	49	.01	5	1.05	.03	.17	2	8
8030	7	31	6	109	.3	15	9	583	2.35	446	6	ND	2	62	1	9	2	32	2.85	.04	5	14	.90	48	.01	5	1.32	.03	.16	2	9
8040	1	24	9	62	.1	8	9	686	3.03	73	2	ND	2	34	1	3	2	42	1.65	.07	11	7	.93	51	.01	4	1.34	.03	.15	2	4
STD A-1/FA-AU	1	31	39	182	.3	36	12	1018	2.82	10	2	ND	2	37	1	2	2	59	.60	.10	8	74	.71	280	.08	8	2.13	.02	.19	2	52

HOMESTAKE MINERALS

PROJECT # INCONSPICUOUS

FILE # 83-283BA

PAGE # 2

SAMPLE #	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Au1
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb
8050	1	29	23	72	.6	8	10	695	3.26	298	5	ND	2	28	1	10	2	43	1.70	.08	7	4	.96	61	.01	5	1.43	.03	.20	2	38
8060	3	28	14	62	.8	9	9	674	2.91	844	5	ND	2	29	1	14	2	41	1.53	.07	8	2	1.07	55	.01	6	1.67	.02	.23	2	95
8070	2	29	9	45	.4	6	8	527	2.66	1166	3	ND	2	20	1	16	2	34	1.53	.07	7	1	1.57	56	.01	6	1.48	.02	.20	2	50
8080	2	26	18	81	.5	7	9	562	3.20	356	2	ND	2	13	1	12	2	40	.89	.07	8	1	1.75	56	.01	5	1.75	.03	.21	2	24
8090	4	27	12	57	.5	7	8	570	2.97	190	3	ND	2	21	1	11	2	35	1.60	.07	7	1	1.35	49	.01	5	1.54	.02	.18	2	65
8100	2	25	9	50	.2	6	8	602	2.41	304	4	ND	2	22	1	10	2	37	1.70	.07	7	1	1.49	55	.01	5	1.57	.03	.20	2	55
8110	2	23	11	66	.2	7	8	608	2.74	98	5	ND	2	20	1	8	2	41	1.53	.07	7	2	1.33	54	.01	6	1.50	.03	.18	2	26
8120	4	24	11	50	.4	7	8	641	2.96	113	3	ND	2	28	1	9	2	34	2.10	.06	7	1	1.36	57	.01	5	1.51	.03	.20	2	28
8130	3	24	10	60	.4	7	8	647	2.92	143	6	ND	2	34	1	8	2	33	2.42	.06	6	1	1.22	53	.01	5	1.44	.02	.20	2	46
STD A-1	1	30	39	180	.3	35	12	1036	2.85	10	2	ND	2	37	1	2	2	58	.59	.09	8	77	.68	277	.07	8	2.07	.01	.20	2	-

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

C-1075
10-R7B
DATE RECEIVED NOV 4 1983

DATE REPORTS MAILED Nov 9/83

ASSAY CERTIFICATE

SAMPLE TYPE : PULP

ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE MINERALS PROJECT # INCONSPICUOUS FILE # 83-2838 PAGE# 1

SAMPLE	AG OZ/TON	AU OZ/TON	
6906	1.73	.328	Homestake Standard
6916	.28	.037	Homestake Standard

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

C - 17/15
C - 17/5
DATE RECEIVED NOV 22 1983

DATE REPORTS MAILED Nov 29/83

GEOCHEMICAL ASSAY CERTIFICATE

A .500 GM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.
THE SAMPLE IS DILUTED TO 10 MLS WITH WATER. ELEMENTS ANALYSED BY AA : AG.
SAMPLE TYPE : PULP

ASSAYER D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE PROJECT # INCONSPICUOUS FILE # RE: 83-2838A PAGE# 1

SAMPLE	AG PPM
723D	.8
724D	.2
725D	.1
726D	.2
727D	.1
728D	.1
729D	.3
737D	.1
738D	.1
739D	.1
740D	.1
741D	.6
742D	.7
743D	1.6
764D	.1
765D	.1
766D	.1
767D	.1
768D	.1
769D	.1
770D	.1
771D	.6
772D	.4
773D	.2
774D	.3
775D	.1
776D	.1
796D	.2
797D	.2
798D	.7
799D	.8
800D	.5
801D	.2
802D	.1
803D	.1
804D	.1

Reanalyse by AA
techniques for
continuity.

SAMPLE	AG PPM
805D	.5
806D	.8
807D	.5
808D	.5
809D	.4
810D	.3
811D	.2
812D	.3
813D	.4

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

DATE RECEIVED NOV 4 1983

DATE REPORTS MAILED

Master File
C - RTB
C - NTS

Nov 15/83

ASSAY CERTIFICATE

SAMPLE TYPE : PULP
AG & AU BY FIRE ASSAY

ASSAYER *Dean Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE PROJECT # INCONSPICUOUS FILE # RE: 83-2838A PAGE# 1

SAMPLE	AG	AU
	OZ/TON	OZ/TON
797D	.01	.040
798D	.02	.169
799D	.02	.176

Reassay high values.

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

DATE RECEIVED NOV 9 1983

DATE REPORTS MAILED *Nov 14/83*

*VC - RTB
C - NTS*

GEOCHEMICAL ASSAY CERTIFICATE

A .500 GM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.
THE SAMPLE IS DILUTED TO 10 MLS WITH WATER. ELEMENTS ANALYSED BY AA : AG.
SAMPLE TYPE : CORE - CRUSHED AND PRULVERIZED TO -100 MESH.
AU** - INCLUDING PD, PT 10 GM, FIRE ASSAY CONCENTRATION, HNO3 LEACH OFF AG,
AQUA REGIA DIGESTION, GRAPHITE AA ANALYSIS.

ASSAYER *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE PROJECT # INCONSPICUOUS FILE # 83-2886 PAGE# 1

SAMPLE	AG PPM	AU** PPB
814D	.2	18
815D	.3	46
816D	.2	43
817D	.2	18
818D	.2	9
819D	.4	195
820D	.1	17
821D	.3	32
822D	.3	25
823D	.2	14
824D	.1	2
825D	.2	13
826D	.8	370
827D	.2	8
828D	.2	9
829D	.4	9
830D	.1	2
831D	.1	3
832D	.1	3
833D	.2	11
834D	.1	1
835D	.2	21
836D	.1	1
837D	.2	1
838D	.1	2

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.
 THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
 THIS LEACH IS PARTIAL FOR: Ca, P, Mg, Al, Ti, La, Na, K, W, Ba, Si, Sr, Cr AND B. Au DETECTION 3 ppm.
 HG+ ANALYSIS BY FLAMELESS AA FROM .500 GRAM SAMPLE.
 SAMPLE TYPE - PULP COMPOSITE

*C - Master file
 C - NTS
 C - RTB*

COMPOSITE SAMPLES

ASSAYER *Dean Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

HOMESTAKE MINERAL PROJECT # INCON FILE # 83-3116 PAGE# 1

SAMPLE	MO ppm	CU ppm	PB ppm	ZN ppm	NI ppm	CO ppm	MN ppm	AS ppm	SB ppm	CR ppm	Hg# ppb
691D-699D	4	32	9	65	10	10	599	488	14	12	380
700D-705D	6	42	6	52	17	10	473	95	4	24	260
706D-711D	2	22	9	52	8	9	529	285	19	11	680
712D-716D	1	23	63	132	8	9	579	1141	27	6	480
717D-724D	1	16	23	88	4	6	534	1476	19	4	110
725D-729D	1	15	15	51	4	6	467	73	6	3	90
730D-737D	4	36	92	136	24	14	601	820	26	24	80
738D	2	12	10	50	6	7	548	11	2	6	10
739D	1	12	7	46	4	6	458	2	2	6	30
740D	1	12	8	49	3	6	453	2	2	2	30
741D-744D	1	26	76	159	22	14	857	1129	18	27	90
745D-748D	21	32	29	76	14	10	491	196	7	16	40
749D-755D	33	9	13	13	6	2	174	66	7	6	20
756D-763D	42	12	17	22	6	2	211	249	9	10	10
764D-770D	12	29	13	74	28	14	635	36	2	35	20
771D-775D	2	26	49	124	13	10	644	617	12	9	40
776D	1	22	7	61	5	10	668	192	2	3	10
620D-624D	7	41	11	64	5	9	711	168	6	9	120
625D-629D	2	22	9	51	8	8	517	241	14	11	300
630D	2	23	12	57	8	9	672	79	3	11	220
631D-632D	2	22	15	60	8	9	668	50	8	9	80
633D-635D	2	22	21	57	8	9	923	389	20	8	400
636D-637D	2	23	9	60	8	10	647	140	10	9	140
638D-639D	2	23	132	144	9	9	695	426	13	11	160
640D	2	23	10	54	8	9	741	68	4	11	40
641D-647D	2	22	11	62	7	9	693	131	8	9	140
648D-651D	2	22	10	61	8	9	702	74	4	8	80
652D-655D	2	23	29	78	8	9	730	111	10	9	270
656D-659D	1	22	73	132	8	9	603	556	21	9	580
660D-661D	1	31	167	384	8	9	734	1282	37	6	350
662D-664D	3	29	373	531	5	7	904	5803	43	6	330
665D-668D	3	19	15	57	7	8	457	2206	43	6	120
669D-674D	2	21	20	80	4	10	752	783	29	6	50
675D-678D	2	21	59	113	5	10	801	379	24	6	190
679D-683D	5	22	41	108	7	9	807	783	27	8	60
684D-687D	2	22	17	88	5	10	771	190	10	4	40
688D-690D	2	30	32	83	20	12	773	1024	4	25	10
STD A-1	1	30	39	180	35	12	1006	11	2	75	50

COMPOSITE SAMPLES

HOMESTAKE MINERAL

PROJECT # INCON

FILE # 83-3116

PAGE# 2

SAMPLE	MO ppm	CU ppm	PB ppm	ZN ppm	NI ppm	CO ppm	MN ppm	AS ppm	SB ppm	CR ppm	Hg* ppb
600D-604D	2	31	20	66	8	10	654	429	13	7	40
605D-614D	2	30	15	64	6	9	726	1047	10	5	50
615D-619D	1	31	40	62	17	10	1447	2656	25	6	80
804D	1	25	11	66	8	9	706	84	3	7	30
805D	1	28	20	71	8	9	646	291	7	6	50
806D-811D	3	28	12	61	7	8	578	509	11	7	520
812D-814D	3	25	13	57	7	9	629	119	8	6	540
815D-817D	2	25	13	64	7	9	681	179	9	7	260
818D-819D	1	23	11	56	7	8	830	428	8	6	230
820D	1	29	8	83	10	9	605	109	7	10	610
821D-822D	2	27	10	54	19	9	648	110	20	15	520
823D	1	30	8	48	20	9	593	73	14	20	480
824D	1	36	5	37	22	10	453	395	5	22	200
777D-780D	2	35	8	44	19	9	452	257	11	18	200
781D-785D	1	30	13	21	18	9	419	1598	11	17	140
825D-829D	1	33	10	52	15	9	798	757	10	11	410
830D-831D	1	35	6	46	21	9	579	32	3	18	80
786D-791D	1	28	22	131	17	9	769	4107	21	8	10
792D-796D	1	31	13	74	15	9	713	2786	17	7	5
797D-799D	1	32	17	225	16	8	1104	19097	54	3	10
800D-803D	3	34	11	127	15	9	677	409	13	8	30
832D-833D	8	44	8	109	15	10	590	32	2	16	10
834D	3	35	4	40	18	10	541	15	3	21	30
835D	2	33	6	38	15	9	462	124	6	16	280
836D	1	48	5	33	15	9	429	9	4	16	50
837D	1	44	2	40	18	10	389	20	3	19	20
838D	1	29	2	29	18	10	456	15	2	20	30
STD A-1	1	31	38	182	35	12	1008	10	2	76	50

HOMESTAKE MINERAL DEVELOPMENT CO.

SAMPLED BY *RT Boyd* DATE *Oct 15*

SAMPLE LOCATION *see back 592G*

PROPERTY NAME *INCONSPICUOUS*

SAMPLE CHARACTER

ROCK *rubble crop near IN 83-5 representative grab of rubble*

SOIL

SILT

SAMPLE DESCRIPTION *Very jarosite goethite stained pyritized and clay altered*
 HOST ROCK TEXTURE & MINERALOGY *andite or dacite porphyry - silicified*

N^o 593 G

ICP

ASSAY **Au** Ag Cu Mo Pb Zn

GEOCHEM **Hg** Sb As W Ni Co

HOMESTAKE MINERAL DEVELOPMENT CO.

SAMPLED BY *RT Boyd* DATE *Oct 15*

SAMPLE LOCATION *Between lines 0100 and 1100N. about 2175E*

PROPERTY NAME *INCONSPICUOUS*

SAMPLE CHARACTER

ROCK *o/c very rusty goethite to jarosite impreg o/c*

SOIL

SILT

SAMPLE DESCRIPTION *Could be very sheared pyritic fault zone - clay altered*
 HOST ROCK TEXTURE & MINERALOGY *very weathered - impossible to determine original rock*

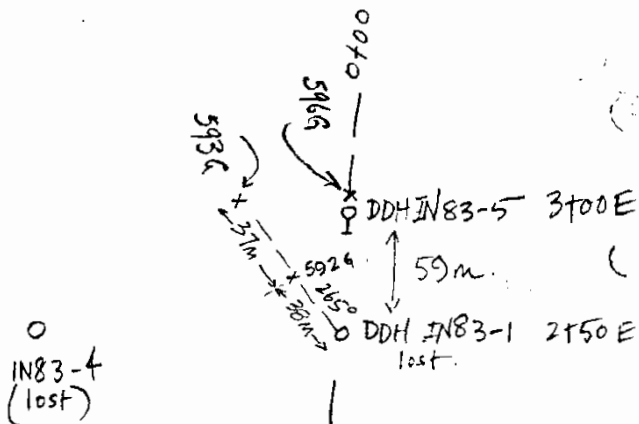
Remote possibility that this is ferricrete since spring emerges in this area. N^o 592 G

ICP

ASSAY **Au** Ag Cu Mo Pb Zn

GEOCHEM **Hg** Sb As W Ni Co

SAMPLE DESCRIPTION CONT'D
 HYDROTHERMAL MINERALOGY & TEXTURE



HOMESTAKE MINERAL DEVELOPMENT CO.

SAMPLED BY *RTB* DATE *Oct 19*

SAMPLE LOCATION *2M. NE of casing for IN83-5.*

PROPERTY NAME *INCONSPICUOUS*

SAMPLE CHARACTER

ROCK *o/c*

SOIL

SILT

SAMPLE DESCRIPTION *Very oxidized latite porphyry - quite fractured & jointed*
 HOST ROCK TEXTURE & MINERALOGY *fsp intact - at best mild prop. alt.*

N^o 596 G

ICP