

NORAMEX MINERALS INC.
Geochemical and Geophysical Report
on the Root Property
Nelson Mining Division, B.C.

Root 1	1067(5)
Root 2	1068(5)
Root 3	1069(5)
Root 4	1070(5)
Twin 3	2706(7)
Twin 4	2707(7)
JO-Anne 2	3284(7)
JO-Anne 3	3285(7)
JO-Anne 4	3286(7)
JO-Anne 5	3287(7)
JO-Anne 6	3288(7)

NTS Reference 82F/6W
Longitude 117° 29'W
Latitude 49° 24'N

Consultant: Nevin Sadlier-Brown Goodbrand Ltd.

Prepared by: John F. Reader, P.Eng.
Dwayne L. Melrose, Geologist

Work Dates: August 17 - September 25

November 9-16, 1983

Date of Report: March 1984

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,142

GEOLOGISTS AND ENGINEERS

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1. INTRODUCTION

1.1 Terms of Reference

Nevin Sadlier-Brown Goodbrand Ltd. was retained by Noramex Minerals Inc. as its technical consultants to carry out a soil geochemical and ground geophysical survey on its Root property (Figure 1). The work was done in accordance with recommendations contained in a report by P.J. Santos dated July, 1983.

The field work was performed during August 17 to September 25 and November 9-16, 1983 by John F. Reader, P.Eng., Bob Swintz, Geologist, Dwayne Melrose, Geologist, and Bruce Hardy, Robert Beynon, John Contini, Grant Greer and Ken Syrja, all technicians.

1.2 Claims and Ownership (Figure 2)

The property is comprised of 6 two-post claims; the Root 1-4 and the Twin 3 and 4, as well as 5 modified grid claims; the Jo-Anne 2, 3, 4, 5 and 6 consisting of 20, 12, 16, 2 and 2 units respectively. In its entirety a total of 58 claim units are held by Noramex Minerals Inc. through an option agreement with Ms. Rosalyne Paszty and Ms. Nina Terekoff of Castlegar, B.C. with respect to the Root 1-4, and acquired by staking and owned outright with respect to the Jo-Anne 2-6. The Twin 3-4 are owned outright through a purchase. The claims under discussion are listed below:

<u>Name</u>	<u>Record No.</u>	<u>Units</u>	<u>Date Recorded</u>	<u>Registered Owner</u>
Root 1	1067(5)	1	May 28,1979	Ms. N.Terekoff
Root 2	1068(5)	1	May 28,1979	Ms. N.Terekoff
Root 3	1069(5)	1	May 28,1979	Ms. N.Terekoff
Root 4	1070(5)	1	May 28,1979	Ms. N.Terekoff
Twin 3	2706(7)	1	July 19,1982	Noramex Minerals Inc.
Twin 4	2707(7)	1	July 19,1982	Noramex Minerals Inc.
Jo-Anne 2	3284(7)	20	July 4,1983	Noramex Minerals Inc.
Jo-Anne 3	3285(7)	12	July 4,1983	Noramex Minerals Inc.
Jo-Anne 4	3286(7)	16	July 4,1983	Noramex Minerals Inc.
Jo-Anne 5	3287(7)	2	July 4,1983	Noramex Minerals Inc.
Jo-Anne 6	3288(7)	2	July 4,1983	Noramex Minerals Inc.

1.3 Location and Access (Figure 1)

The Root Claim Group is located about 15 kilometres west-southwest of the city of Nelson in the Nelson Mining Division of B.C. The property is bounded on the west by Connor Creek and on the east by Rover and Snowwater Creeks.

Access is via good logging roads branching from the Rover Creek forestry road. A narrow, winding, four-wheel drive road leads to the ridgetop and effectively traverses the Root claims.

1.4 Physiography and Vegetation

Elevations on the Root claims range from about 1100m to 1500m ASL. The topography consists of a gently undulating ridge-top bound by moderately-steep slopes descending to the adjacent creeks. The area is generally heavily wooded with a variety of mature evergreens and deciduous trees although, in old burns, the forest has been replaced by thick and mixed undergrowth.

1.5 Previous Work

The history of the Root property is as described by Santos (1983):

"Little is known about the Root property prior to its re-discovery by Steve Paszty and Alex Terekoff. On the Root claims is an old shaft and a couple of shallow trenches in the sulfides exposed on the road. A couple of short adits are located 126 metres (415 feet) south of these trenches apparently following a narrow galena vein. According to the late Dave Norcross this vein produced a small tonnage of high grade silver ore. However, there is no record of this production.

There are some pieces of diamond drill core that consist of skarn material at a location 20 metres (65 feet) east of the shaft. According to a report by Amoco (Visagie) a couple of drill sites were found on the property. This was not confirmed during the property investigation by the author. There are no records of drilling done on the property if it was at all drilled.

A claim post north of the Root showings has a tag which indicated that the property was staked on September 1, 1971 as the Bonnington 1. There are no records available regarding any work done on the property.

Steve Paszty and Alex Terekoff actively prospected the property, conducted Self-Potential and Magnetic Surveys on the property. They later trenched the anomalies they found, and obtained encouraging results."

1.6 Summary of Work

This report describes work performed between August 17 and September 25, November 9-16, 1983 on the Root property, primarily on the Root 1-4 and Twin 3-4 claims. During the course of exploration, a control grid totalling approximately 17.5 kms (Baseline BRG 300°), was surveyed using backsight methods over known magnetically disturbed areas and compasses elsewhere. Lines were installed at 100m spacings with stations every 25 metres. Distances were measured with topofil and were slope corrected.

The grid was used for control of a program which included soil sampling, rock sampling, a total-field magnetometer survey, a VLF-EM survey and limited reconnaissance geological mapping. In addition, topography and claim locations were tied to the grid coordinates.

2. GEOLOGY

2.1 Regional Geology (Figure 3)

The following regional geology is summarized from Little (1980) by Santos (1983).

"The area between Nelson and Castlegar is underlain by early Mesozoic to Late Jurassic rock units consisting of The Rossland Formation, Hall Formation, Ymir Formation, and The Nelson Plutonic Rocks (Little).

This area lies on the eastern flank of the eugeosyncline bordering The Kootenay Arc, an

arcuate belt of sedimentary, volcanic, and metamorphic rocks.

The Rossland Formation rock units are essentially greenstones made up of andesite flows some of which have undergone alteration to serpentine in proximity to intrusive rocks. Usually the volcanics are porphyritic in texture when unaltered.

The Hall Formation are dark coloured carbonaceous argillites, slates, phyllites, interbedded sandstones and chert overlying The Rossland Volcanics. Some beds are tuffaceous and some thin-bedded limestone and conglomerate are included in this formation.

The Ymir Formation has similar rock units to the Hall Formation. It consists, for the most part, of black, carbonaceous argillites, slates, and limestones.

The Hall and Ymir Formations correlate with The Milford Series in the Tillicum area of British Columbia.

The area is also underlain by a sequence of metamorphosed sedimentary rocks which was referred to by H.W. Little (GSC Map 1090W) as Unit B, which is thought to be Carboniferous to Jurassic in age. This Unit B consists of argillite, slates, phyllite, tuff, limestone, minor dolomite and skarn. It is the same as The Hall and Ymir Formations lithologically and in geologic age. In this report it is referred to as The Hall-Ymir Formation.

Unit B overlies the Rossland Formation and appears to form a syncline with the axis trending NW.

This formation was probably remnants of a much more widespread formation which was intruded and much altered by The Nelson Intrusive.

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The Nelson Plutonic Rocks intrude units of The Rossland, Hall, and Ymir Formations. These intrusives grade from a very coarse porphyritic granite with large feldspar phenocrysts to equigranular granite. Often this granite is foliated and contains pegmatoid lenses following a NW-SE orientation. The Nelson Formation also grades into granodiorite to dioritic phases and at the chilled contact with the older rocks grades into andesite porphyry within a limited area. Included in this formation are lamprophyre dykes and sills in varying thicknesses. Typically the lamprophyre consists exclusively of biotite and pyroxene but may grade into a basaltic composition."

2.2. Property Geology (Figure 4)

Very brief notes were taken during the performance of the geophysical surveys. These comments were restricted to identification of float and outcrop as either sediments of the Hall Formation, or the Nelson Granodiorite. A strong correlation between geophysical anomalies and the contact between these units was observed.

Detailed geologic notes were taken in areas where samples were taken about which some general comments can be made. Lamprophyre dykes often coincide with known mineralization. Mr. Pec Santos reports that although these dykes appear throughout the Bonnington Map-Sheet their association with mineralization is not established because they are found to both cut, and be cut, by sulphide bodies.

The main Root showing appears to be stratabound on a large scale, however, cross-cutting relationships to bedding in the Hall Formation and brecciation are clearly observed locally in some areas. The massive sulphides occur as numerous bands intercalated with silicified sediments containing disseminated sulphides.

The presence of pyritiferous Nelson granodiorite and often a green, andesitic border phase of it, is found at or near every mineralized pit observed on the Root property. The spacial relationship of intrusive rocks and mineralization within the sedimentary sequence is supported by the geophysical results.

2.3 Rock Sampling (Figure 4)

Rocks were sampled in some areas of known mineralization. Samples of the best sulphide exposures and commonly their hanging and footwalls were deemed to be a sufficient first phase for the determination of the extent and character of gold mineralization. Samples were assayed for gold by Chemex Laboratories Ltd., in North Vancouver, B.C.

Detailed rock sampling of the sulphide showing was performed by Santos (1983). It provided adequate coverage of the known mineralized zone. Results from the eleven samples collected by Santos revealed a weighted average grade of 0.122 oz/ton Au with values ranging up to 1.02 oz/ton Au. Silver and copper values were low. Three grab samples of sulphide material were collected by NSBG that ran 0.242, 0.172 and 0.118 oz/ton Au (see Table 1).

Samples of disseminated pyrite in the wall rock of the upper adit of the "True Fissure" workings displayed no detectable gold mineralization. Some lower adit waste from the galena vein shows only trace gold with minor silver and lead. Samples from a small prospect pit near the main showing are just above the detection limit of 0.003 oz/ton.

3. SOIL GEOCHEMISTRY

3.1 Sampling and Analytical Method

Soils were sampled from the B horizon at 25 metre intervals throughout the grid. About 600 samples were taken. The B horizon is generally well defined everywhere on the property at a depth of 6-12 inches (15-30cm) and the total depth of soil is not more than 60cm (2 feet) on the majority of the grid. These conditions suggest that the use of soil geochemistry anomalies should be a reasonable indicator of the metals in the subcrop.

Samples were collected in Kraft paper bags and analyzed for gold, arsenic, copper, lead and zinc by Chemex Labs Ltd. in North Vancouver, B.C. Results are shown in Figures 5,6,7,8 and 9.

3.2 Discussion of Results

3.2.1 Gold (Figure 5)

In general gold analyses result in spotty high values with the majority of samples below the detection limit and most of the remainder just above the detection limit at 10 or 20 ppb.

The location of the main Root showing is clearly outlined and appears to extend across about 300 metres. Some downslope scatter is observed below the main Root showing in the northwest part of the grid and can be attributed partly to the vast talus slope in this area which must contain sulphides from the mineralization. The Zone 2 showing, on the baseline at 94N, does not show up particularly well. In the southwest section of the grid a broad area of values above the detection limit is observed. This is particularly anomalous in the region of 96E on Lines 94, 95, 96 and 97N. This area may represent a gravity concentration of gold in a small drainage feature, however, this cannot be confirmed because of a lack of detailed topographic control.

A series of broad, marginally anomalous zones on the east half of the grid apparently overlie Nelson granodiorite and lie on slopes restricted to about a 30% maximum gradient. Gravity concentration is not applicable in this circumstance and anomalous gold values in the subcrop are a likelihood. No immediate geological cause for high values in this area was observed in the field and these anomalies warrant further investigation.

3.2.2 Arsenic (Figure 6)

Arsenic data clearly displays a difference in background between the Nelson granodiorite and the Hall Formation sediments. In addition, the arsenic map bears a reasonably close co-relation to the magnetometer data. A broad zone of anomalous values in arsenic extends from 98N through to the end of the grid at 106N. This zone is 200 metres wide and follows the break-in-slope of the ridgetop to the Connor Creek valley wall and lies between background values typical of the Nelson granodiorite and those typical of the Hall Formation (the sediments have a higher background). This elevated band is the primary feature in the arsenic data. A

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small anomaly, just east of the baseline between 95N and 97N, may be related to a northern extension of the Zone 2 showing although there is no anomalous value immediately over the showing.

Rock geochemistry of the sulphides in the main Root showing display very high arsenic values (>10,000 ppm) confirming the visual identification of arsenopyrite as a major sulphide constituent.

3.2.3 Copper (Figure 7)

Copper geochemistry on the Root is somewhat erratic. Generally, areas underlain by Hall Formation sediments display higher background copper in soil than areas underlain by Nelson granodiorite. A number of grid correlations between copper and gold exist in certain areas, especially at the main showing. A downslope dispersion of anomalous copper values in the northwest quadrant of the grid may be primarily due to the talus in this area. Other single point anomalies are difficult to interpret in the context of what is known about the geology of the property. A reasonable anomalous area is detected throughout the zone of the "True Fissure" galena vein downslope from the main Root showing. Chalcopyrite was observed in waste rock from the two adits that penetrate this vein.

3.2.4 Lead (Figure 8)

Lead in soils does not appear to clearly identify the main Root showing or any extension of it. Highly anomalous values can be detected in the vicinity of the "True Fissure" galena vein and suggest a possible extension of this vein over a distance on the order of 400 metres. Numerous spotty values occur on Lines 94N and 95N both to the east and west. These lines trend down the sides of a trough in the topography in this area and the erratic lead values may be reflecting a gravity concentration of galena in the overburden. In the northeast quadrant of the grid a small lead anomaly is observed for which no unusual geologic features were detected. The difference in background between the two major rock types in the area is not defined by lead soil geochemistry.

3.2.5 Zinc (Figure 9)

Zinc geochemistry bears a strong similarity with copper geochemistry in that the primary area of anomalous values occurs downslope from the main showing and is probably a broad feature expressing the downslope dispersion of metal ions and mineralized rock. A zinc anomaly is not present over the main Root showing, therefore the source of zinc must be other than this particular area. Overall significantly higher values of zinc are observed in the Hall Formation as opposed to the Nelson granodiorite and the presence of ubiquitous zinc mineralization in much of the sediments is a possibility. Anomalous zinc mineralization is indicated on Lines 94 and 95N and is coincident with similar arsenic anomalies on Line 94N.

4. GEOPHYSICS

4.1 Method

4.1.1 Ground Magnetometer Survey

The magnetics survey was performed with a McPhar GP-81 staff-mounted, proton precession magnetometer (see Appendix E). This instrument measures the total magnetic field to a nominal precision of one gamma. Readings were taken every 25 metres with half stations estimated in areas of interest. Line spacings of 100 metre were used on the initial grid. In November, a detailed grid was extended for 250 metres each side of the baseline at 50 metre line spacings over the area of interest. The standard looping method was invoked with all secondary base stations tied to a primary station in a noise-free area. Diurnal drift was observed to be average and no magnetic storm activity was detected.

All readings have been corrected for drift and tied to the primary base station at 100N 100+25E (defined as 57390 gammas). Results are plotted in Figure 10 with all values referenced to 57000 gammas.

An additional small detailed grid totalling 1000 metres was surveyed at 5 metre intervals directly over the main Root showing. Details are shown in Figure 11.

4.1.2 VLF-EM Survey

This survey utilized a Geonics EM-16 unit for measuring the in-phase and quadrature component of the VLF signal transmitted from Seattle (see Appendix E). Readings were taken at 25 metre intervals with half stations measured near crossovers. Only the 100 metre line spacing grid was surveyed.

The orientation of the Seattle broadcasting station with respect to the grid is less than optimum, being about 50° off the baseline. Reasonable nulls were obtained however, and care was taken to turn perpendicular to Seattle at every station. Interpretation will be hampered additionally by the fact that the regional strike of bedding in the Hall Formation is very close to 90° from the transmitted signal. This geometry will make identification of conductors aligned with bedding tentative with this technique.

The in-phase values were reduced to dips and Fraser filtered to allow contouring of the data shown in Figure 12. Profiles are shown in Appendix A.

4.2 Discussion of Results

4.2.1 Ground Magnetometer Survey (Figures 10 and 11)

Several features can be readily observed on the contoured total field results. Most important is the apparent strike continuation of the magnetic high associated with the main zone of mineralization (magnitude of 2000 gammas above background). The length of continuous anomaly extends for a length of 700 metres and its width is 150m. The strike of the anomaly at approximately 160°, coincides with the regional strike of the Hall Formation in this area suggesting a stratabound magnetic feature.

To the northeast a generally higher background is observed which gradually increases to over 1000 gammas compared with the 400-500 gammas south and southwest of the linear anomalous high. The change in backgrounds, on the basis of preliminary field observation, appears to coincide with the contact between the meta-sediments and the Nelson granodiorite. Zones of higher background, where the granodiorite is not present, may represent a thin skin of

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sediments overlying a dominantly plutonic terrane. High values in the southeast suggest a possible magnetite halo in the intrusion.

The anomalous target, although dominantly stratabound in appearance, is intimately associated with the contact of the two major rock types. This intrusive undoubtedly caused some degree of remobilization and perhaps concentration of metals. Although the main showing displays significant pyrrhotite mineralization in massive sulphide zones, outcrops in other anomalous areas do not contain massive sulphides. Either pyrrhotite mineralization occurs in the subcrop of these areas or it is likely that magnetite is contributing to the contact related anomaly. Magnetite, however, was not observed to be widespread on the property.

A small detailed grid, consisting of five lines at 50 metre spacings, was oriented perpendicular to the Root showing with the baseline bearing about 160° (see Figure 11). Each line was 200 metres long and readings were taken at 5 metre intervals.

Considerable high frequency variations of amplitude, commonly as high as 1000 gammas, indicate that the magnetic zones are thinly banded and possibly horsetail to the northeast. The strongest response is next to the old shaft (Station 0+00N 0+00E DET.) and can be traced to lines 0+50N DET. and 1+00N DET., although does not continue south. The mineralization where the highest gold grades are located is identified at 0+50S 0+00E DET. by a small crossover. To the west is a 500 gamma background indicative of Hall Formation and to the east is a 750 gamma background distinctive of the Nelson granodiorite. A similar response at 1+00S 0+00E DET. may be a continuation muted by overlying non-magnetic sediments.

4.2.2 VLF-EM Survey (Figure 12)

Good cross-overs were obtained on nearly every survey line (see Appendix A). Unfortunately, the major cross-overs occur near the break-in-slope from the ridgetop to the valley. This is due to a combination of essentially inseparable variables including: a) the natural tendency of the VLF signal to wrap with the topography creating cross-overs at ridgetops and valley bottoms, b) the contact of the Hall Formation with Nelson granodiorite which occurs

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near the ridge because of the recessive weathering of the sediments, and c) the existence of conducting mineralization also associated with the contact.

All lines show the gross effects of topography especially to the east of the baseline where the in-phase background values take on negative values which are consistent the east-facing slope in this area (operator facing east). A similar (but opposite) effect is noticeable to the west. Smaller inflections, due to minor gullies and knolls, are difficult to extract from the data due to a lack of fine topographic control and the similarity between these features and true conductor anomalies. Generally, the topographic problem is most troublesome where conductive overburden is present. This is not the case throughout most of the Root property and the effects are assumed to be generally minimal on the high frequency scale of anomaly.

Effects due to the crossing of an abrupt geologic contact between units of contrasting electrical resistivities are not distinctly evident in the data. This may be explained by a lack of resistivity contrast between the primary units or, more likely, a combination of a highly variable contact geometry and the masking of a contact response by the topographic effects and conductor responses.

Conductor cross-overs are evident on many lines. By far the major feature is represented by a series of strong conductor responses occurring near the baseline (very strong on lines 101N, 100N, 97N, 96N, 95N and 94N). A lack of quadrature response indicates a relatively high conductivity typical of a massive sulphide. The same anomaly is present in muted form on lines 104N, 103N, 99N, 98N?, and 95N. These responses are generally broader with gentle crossovers suggesting either a wider conductor or, what is more likely, a deeper conductor. The magnitude of the crossover is greatly magnified by topographic effects.

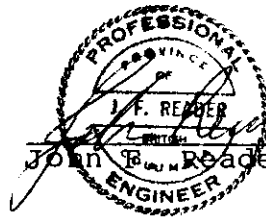
Other significant conductors are scattered throughout the grid. Many of these display a following quadrature indicating a poor conductivity target (fault gouge for example). Other conductive targets are suggested by the data but are poorly resolved due to noise. A high level of noise largely due to topography and overburden conductivity is an inherent characteristic of VLF-EM surveys. In this particular survey these effects are combined with less than

optimum transmitter orientation with respect to the grid and observed mineralization. This geometric problem created inconsistent signal nulls for some readings and hence noise.

To reduce the bulk of data and present a convenient map view, the in-phase data was Fraser filtered and contoured. The major trends are clearly visible although much of the information is lost due to the nature of the technique.

Respectfully submitted,

NEVIN SADLIER-BROWN GOODBRAND LTD.

A circular professional seal for the Province of Ontario, featuring the text "PROFESSIONAL ENGINEER" around the perimeter and "ONTARIO" at the bottom. The name "J. F. READER" is stamped in the center. A handwritten signature is written over the seal.

John F. Reader, P.Eng.

A handwritten signature in cursive script.

Dwayne L. Melrose, Geologist

March 21, 1984

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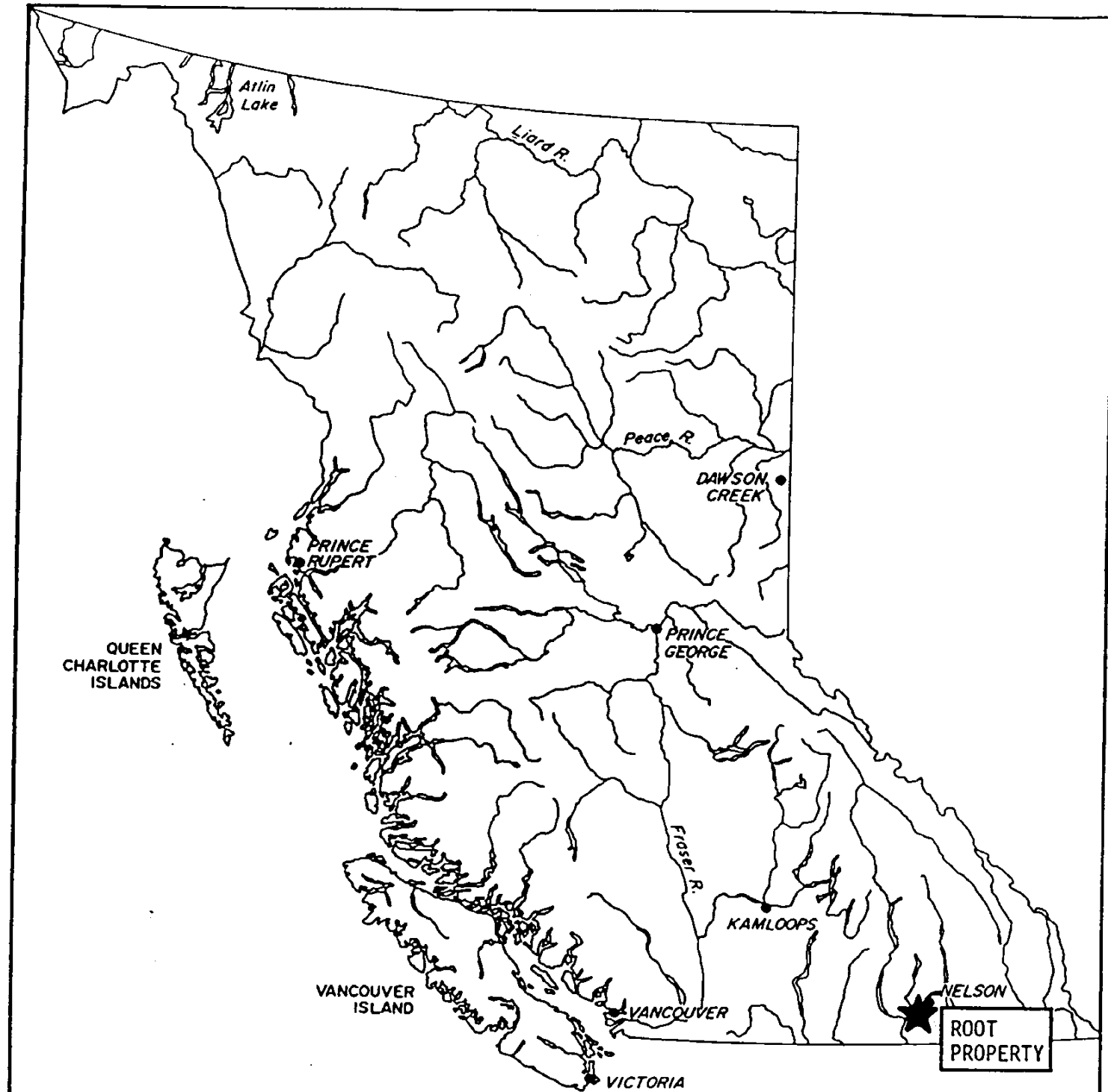
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TABLE 1: ROOT PROPERTY ASSAY RESULTS

<u>Sample</u>	<u>Au</u> <u>oz/ton</u>	<u>Description</u>
84701	0.242	Massive sulphide grab (0+50S BL DET.)
84702	0.118	Massive sulphide grab (0+10N BL DET.)
84703	0.172	Massive sulphide grab (0+20N BL DET.)
0+40S 0+60W DET.A	<0.003	Pyritic Hall Fm. (prospect pit)
0+40S 0+60W DET.B	0.006	Silicified, pyritic Hall Fm. (prospect pit)
Root Upper Adit	<0.003	Sulphide grab
Root Lower Adit	0.003	True Fissure galena vein
95092B	0.054; 0.10 oz/ton Ag	Resample Santos' 10025C
95093B	0.003	94+00N 100+40E, South Showing, grab
95094B	<0.003	100+00N 100+00E, grab



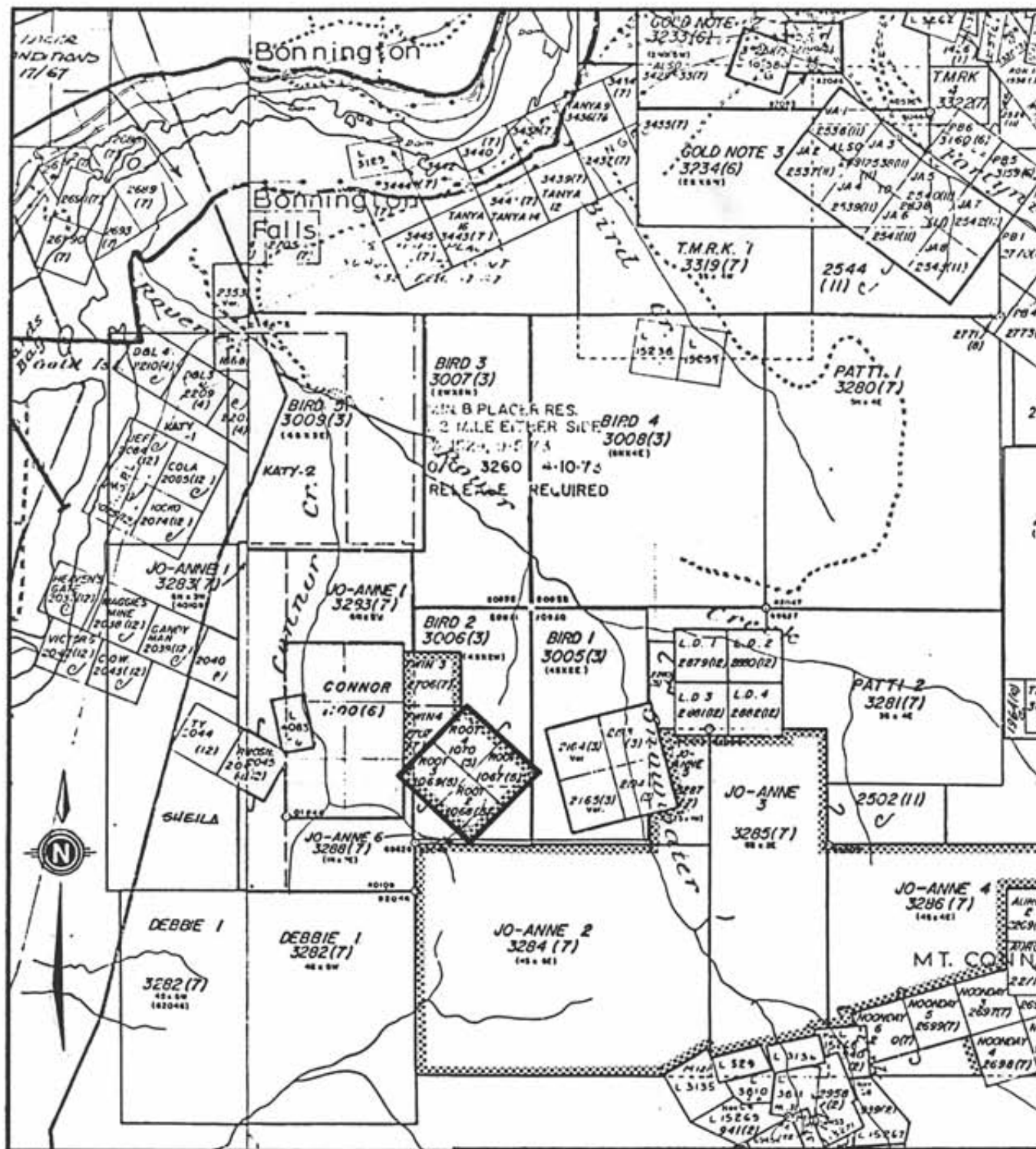
QUEEN CHARLOTTE ISLANDS

VANCOUVER ISLAND

ROOT PROPERTY



NORAMEX MINERALS INC.	
ROOT PROPERTY	
LOCATION MAP	
NELSON M.D., B.C.	NTS MAP 82F/6
FIGURE 1	SCALE: As Shown
NEVIN SADLIER-BROWN GOODBRAND LTD. MARCH 1984	



NORAMEX MINERALS INC.

ROOT PROPERTY

CLAIM MAP

NELSON M.D., B.C.

NTS MAP 82F/6

FIGURE 2

SCALE 1:50,000

NEVIN SADLIER-BROWN GOODBRAND LTD.
MARCH 1984

LEGEND

CENOZOIC

LOWER CRETACEOUS(?)

- 20** Valhalla Plutonic Rocks: granite, minor pegmatite
- 19** Nelson Plutonic Rocks: 19b - non-porphyrific granite to granodiorite; 19c - granodiorite; 19d - quartz diorite; 19e - syenite; 19f - mainly fine grained, porphyritic syenite to quartz diorite; 19h - pseudodiorite & pyroxene-hornblende-biotite rock; 19k - diorite

MESOZOIC

JURASSIC MIDDLE & (?)UPPER JURASSIC

- 17** Hall Formation: Argillite, sandstone & conglomerate

LOWER JURASSIC

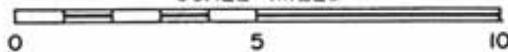
- 16** Rossland Formation: Andesite, latite, basalt, flow breccia, augite porphyry, agglomerate, tuff; minor shale
- 15** Simurian Beds: argillite, argillaceous quartzite, slate; minor flows & pyroclastic rocks. May be equivalent to upper parts of 13 & 14

PERMIAN(?), TRIASSIC(?) & LOWER JURASSIC(?)

- 14** YMR GROUP
Argillite, slate, argillaceous quartzite; minor limestone
-
- B** Argillite, argillaceous quartzite, greywacke; locally conglomerate; minor flows & pyroclastic rocks. Probably not older than Carboniferous, but in part may be Jurassic
-
- A** Augen gneiss, hornblende-biotite-feldspar gneiss; minor crystalline limestone & skarn. Probably Early Mesozoic



SCALE - MILES



NORAMEX MINERALS INC.

ROOT PROPERTY

REGIONAL GEOLOGY MAP

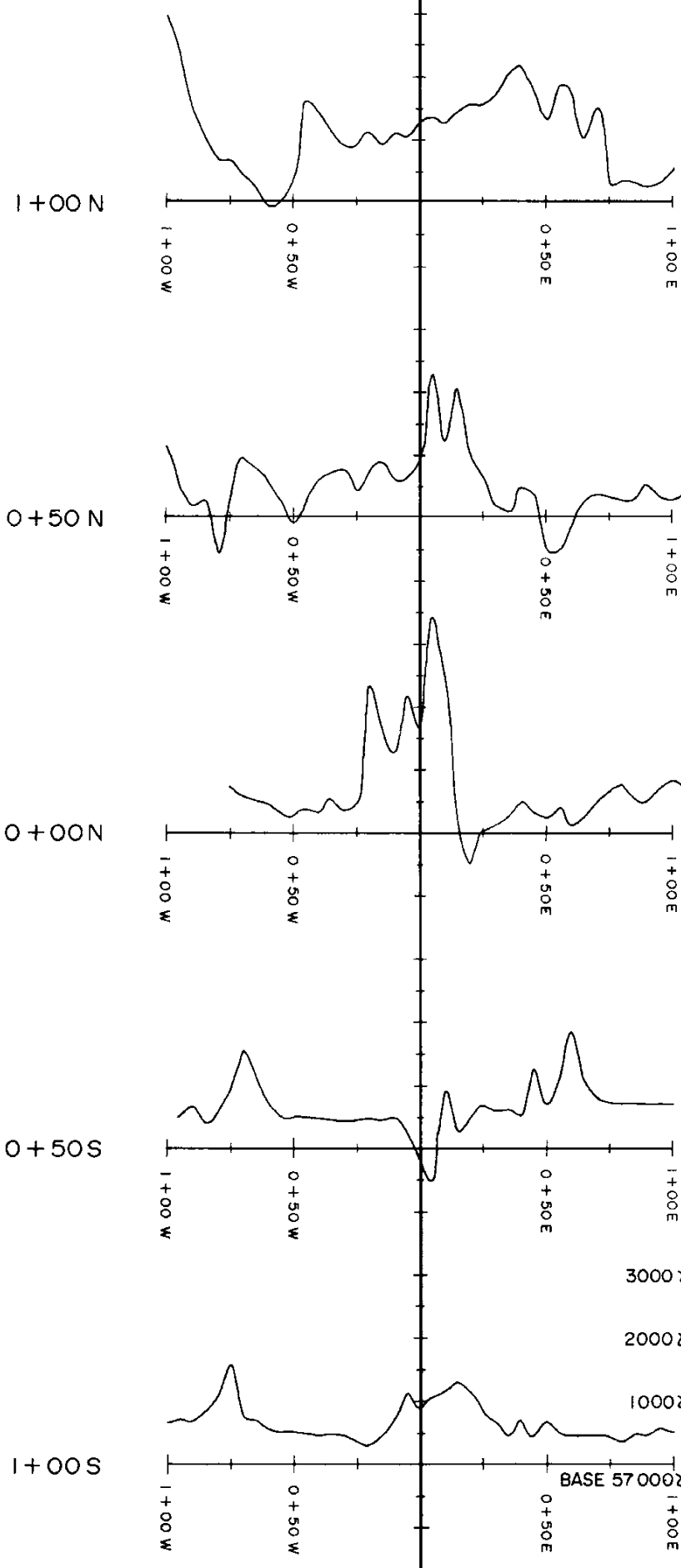
NELSON M.D., B.C.

GSC MAP 1090A
NTS MAP 82F/6

FIGURE 3

SCALE 1:253,440

NEVIN SADLIER-BROWN GOODBRAND LTD.
MARCH 1984



3000 γ
2000 γ
1000 γ
BASE 57 000 γ

3000 γ
2000 γ
1000 γ
BASE 57 000 γ

3000 γ
2000 γ
1000 γ
BASE 57 000 γ

3000 γ
2000 γ
1000 γ
BASE 57 000 γ

3000 γ
2000 γ
1000 γ
BASE 57 000 γ

This is to accompany a report entitled:
GEOCHEMICAL AND GEOPHYSICAL REPORT ON

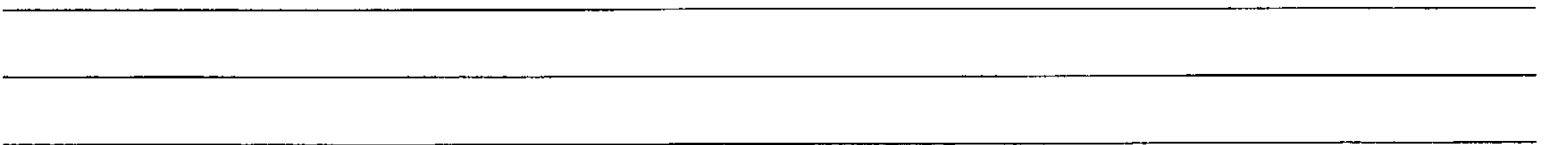
THE ROOT PROPERTY
NELSON M.D., B.C.
February 29, 1984, by:
F. READER
Professional Engineer

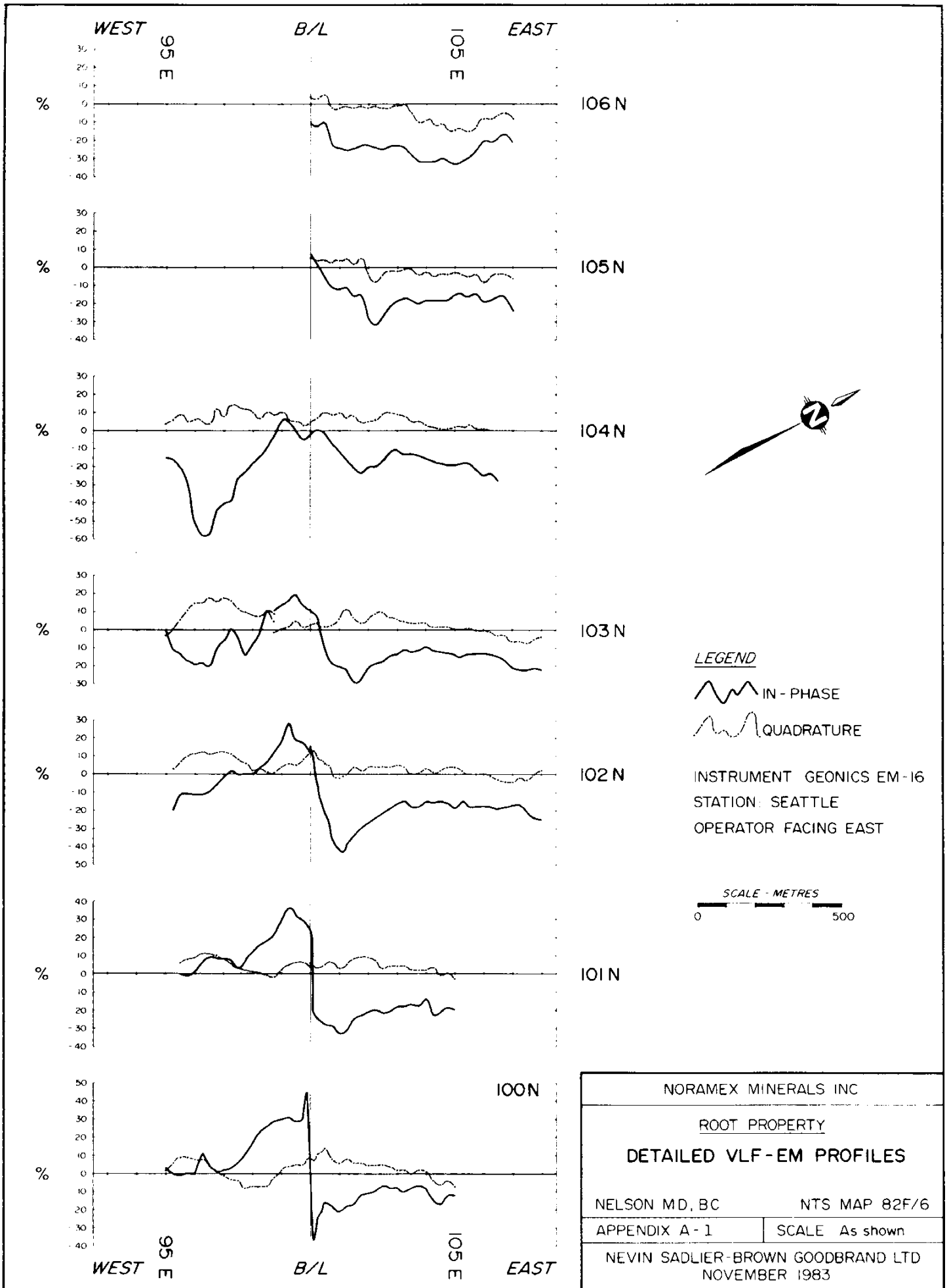
Wayne L. McLoose
Wayne L. McLoose, Geologist

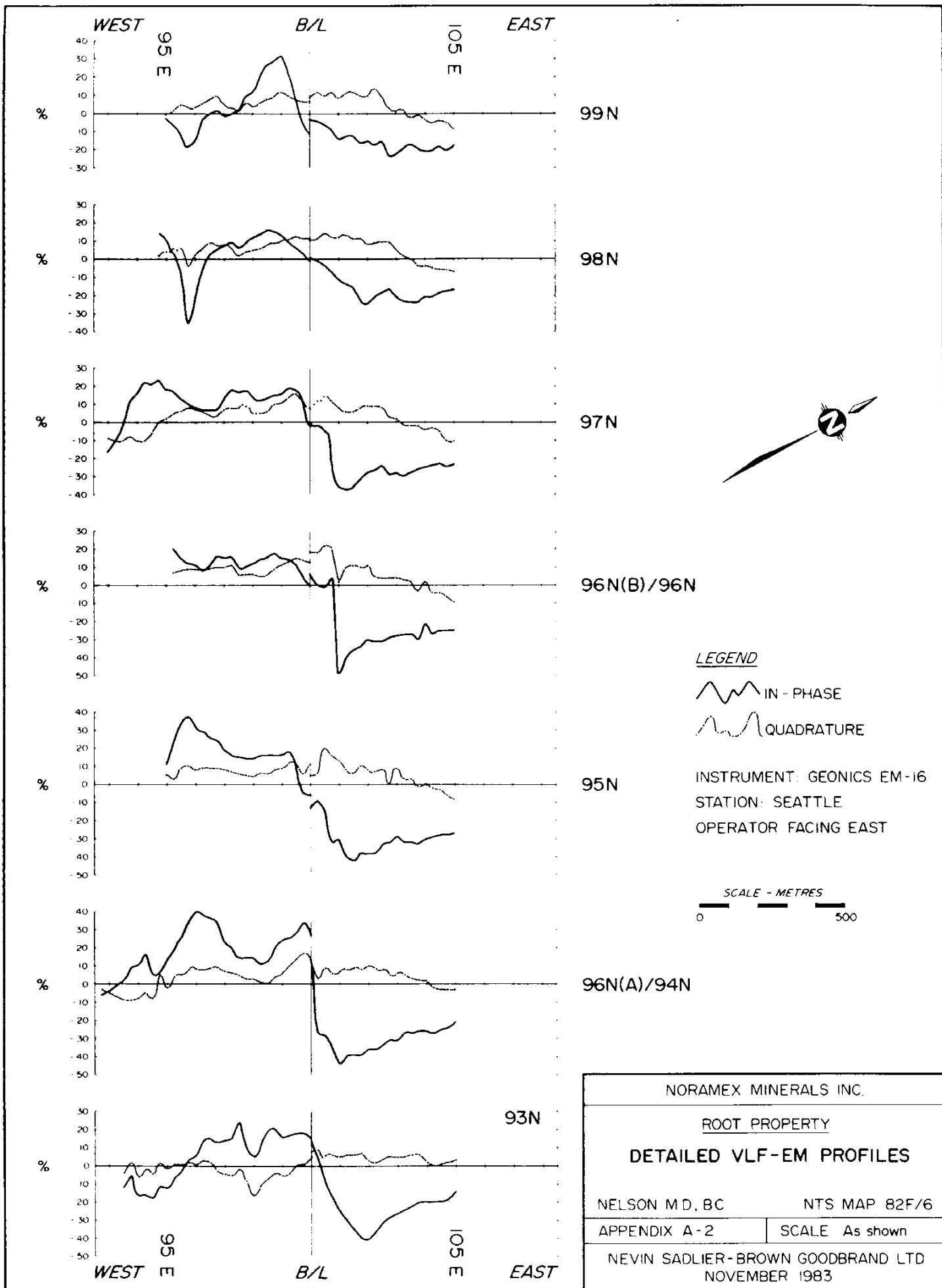
NOTE: Baseline bearing 330°. Station 0+00N BL located at shaft on the main showing.

NORAMEX MINERALS INC.	
ROOT PROPERTY	
DETAILED MAGNETOMETER SURVEY (PROFILES)	
NELSON M.D., B.C.	NTS MAP 82F/6
FIGURE II	SCALE 1:2500
NEVIN SADLIER-BROWN GOODBRAND LTD.	
FEBRUARY 1984	

APPENDIX A
VLF-EM Profiles







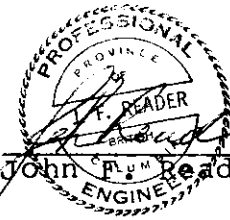
APPENDIX B

Statement of Qualifications

Statement of Qualifications

I, John F. Reader, hereby certify that:

1. My residence address is 4410-47A Street, Delta, B.C. V4K 2N7
2. I am a consulting geological engineer with the firm of Nevin Sadlier-Brown Goodbrand Ltd., 401-134 Abbott Street, Vancouver, B.C. V6B 2K4
3. I hold a B.A.Sc. in Geological Engineering (Geophysics option) from the University of British Columbia. I have been practicing my profession since 1979, and am a registered member of the Association of Professional Engineers of the Province of British Columbia (Geological).
4. I am an Associate member of the Geological Association of Canada and a member of the Engineering Institute of Canada.
5. I have reviewed the literature and records regarding the Root property and surrounds personally.
6. I supervised and conducted the work described in this report and co-authored this report.

A circular seal for the Association of Professional Engineers of the Province of British Columbia. The seal contains the text "PROFESSIONAL ENGINEERS OF THE PROVINCE OF BRITISH COLUMBIA" around the perimeter. In the center, it says "P. READER" and "B.C. P. ENG.". A signature is written across the seal.
John F. Reader, P.Eng.

March 21, 1984

Statement of Qualifications

I, Dwayne L. Melrose hereby certify that:

1. My residence address is 323 Seymour River Place, North Vancouver, B.C. V7H 1S6
2. I am a consulting geologist with the firm of Nevin Sadlier-Brown Goodbrand Ltd., #401-134 Abbott Street, Vancouver, B.C. V6B 2K4
3. I hold a B.Sc. in Honours Earth Science from the University of Waterloo, Waterloo, Ontario. I have been practicing my profession since 1981.
4. I am an Associate member of the Geological Association of Canada.


Dwayne L. Melrose, Geologist

March 21, 1984

APPENDIX C
Certificate of Analysis



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

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• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

TO : NEVIN SADLER-BROWN GOODBRAND LTD.,

401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8312250-001-
INVOICE # : I8312250
DATE : 8-JUL-83
P.O. # : NONE
ROOT

ATTN: B. FAIRBANK

Sample description	Prep code	Cu %	Pb %	Zn %	Ag FA oz/T	Au FA oz/T	
84701	207	0.14	0.04	0.19	0.28	0.242	--
84702	207	0.16	0.01	0.13	0.24	0.118	--
84703	207	0.45	0.01	0.11	0.35	0.172	--

.....
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GEOCHEMISTS

REGISTERED ASSAYERS

CERTIFICATE OF ASSAY

TO: NEVIN SAGLIER-BROWN GOODBRAND LTD.,

CEPT. # : A8315232-CC1-A
 INVOICE # : 19315232
 DATE : 11-OCT-83
 P.C. # : NONE
 CCNORS JV

401 - 134 ABBOTT ST.
 VANCOUVER, B.C.
 V6B 2K4

ATTN: BRIAN FAIRBANK

Sample description	Prep code	Pb %	Ag FA oz/T	Au FA oz/T	
-1951 RES 133A	207	--	--	0.042	Channel Sample-kedo of PJS #133
-1952 RES 133B	207	--	--	0.016	Hi-grade of Hengryu Mine showing
-1953 2+70N 0+15E A	207	--	--	0.020	Downstream of HM showing
-1954 0+00N 4+00W	207	--	--	<0.003	Prospect Pit uphill of HM showing
-1955 2+50N 0+10E A	207	--	--	0.003	Downstream of " "
1956 Root Upper Adit	207	--	--	<0.003	Sulphide Grade - "
1957 0+40S 0+60ND DET.	207	--	--	0.006	Root Detailed Grid - prospect pit 75m from shaft
-1958 2+70N 0+15E-B	207	--	--	0.008	Downstream of HM showing chip sample
-1959 0+00N 1+25W	207	--	--	<0.003	Prospect Trench uphill of HM showing
-1960 0+00N 3+40W B	207	--	--	<0.003	Adit - " " " "
-1961 0+00N 3+40C	207	--	--	0.018	" " " " " "
-1962 0+20S 3+60W	207	--	--	0.022	" " " " " "
-1963 0+00N 3+40WA	207	--	--	<0.003	" " " " " "
1964 Root Lower Adit	207	0.81	0.06	0.003	True Fracture vein sample - "
-1965 3+00N 0+25E A	207	--	--	<0.003	Downstream of HM showing - above portal
-1966 2+50N 0+10E B	207	--	--	0.003	" " " " " - sulphide zone
1967 0+40S 0+60W-A DET	207	--	--	<0.003	Root Detailed grid prospect pit
-1968 3+00N 0+25E-B	207	--	--	0.006	Adit Downstream of HM showing
-1969 65 3W Pit	207	--	--	0.018	Pyrite - Massive - "
-1970 65 3W Pit	207	--	--	0.003	Footwall - "
-1971 65 3W Pit	207	--	--	0.010	Hanging wall - "
-1972 0+00N 4+20W	207	--	--	0.003	Uphill trench - from HM showing

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VANCOUVER, B.C.
V6B 2K4

CERT. # : A8312931-001-
INVOICE # : I8312931
DATE : 27-JUL-83
P.C. # : NONE
209

ATTN: DCUG GOODBRAND

Sample description	Prep code	Au oz/T RUSH FA	Ag FA oz/T				
95092 B <i>to sample 10025 cc</i>	236	0.054	0.10	--	--	--	--
95093 B <i>South Slaving</i>	236	0.003	--	--	--	--	--
95094 B <i>40' N of 10025 cc</i>	236	<0.003	--	--	--	--	--

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TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8314548-001-1
INVOICE # : 18314548
DATE : 15-SEP-83
P.O. # : NONE
ROCT

ATTN: B. FAIRBANK

Sample description	Prep code	Zn ppm	AU-AA ppb				
32093	205	83	<10	--	--	--	--
32094	205	66	<10	--	--	--	--
32095	205	93	<10	--	--	--	--



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VANCOUVER, B.C.
V6B 2K4

CERT. # : A8314548-001-1
INVOICE # : I8314548
DATE : 13-SEP-83
P.O. # : NONE
ROGT

ATTN: B. FAIRBANK

Sample description	Prep code	Zn ppm	AU-AA ppb				
32093	205	83	DELAYED	--	--	--	--
32094	205	66	DELAYED	--	--	--	--
32095	205	93	DELAYED	--	--	--	--



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401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8314549-001-1
INVIGICE # : I8314549
DATE : 15-SEP-83
P.O. # : NONE
209 ROOT

ATTN: B. FARIBANKS

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	AS ppm	AU-AA ppb	
92N 100+00E	201	50	17	169	9	<10	--
92N 100+25E	201	31	30	198	10	<10	--
92N 100+50E	201	40	15	147	10	<10	--
92N 100+75E	201	39	69	460	17	<10	--
92N 101+00E	201	45	19	335	12	<10	--
92N 101+25E	201	45	53	205	15	<10	--
92N 101+50E	201	42	24	147	10	<10	--
92N 101+75E	201	23	10	140	12	<10	--
92N 102+00E	201	22	16	136	10	<10	--
92N 102+25E	201	19	17	143	10	<10	--
92N 102+50E	201	19	15	111	7	<10	--
92N 102+75E	201	19	20	158	11	<10	--
92N 103+00E	201	13	14	285	11	10	--
92N 103+25E	201	12	18	340	11	<10	--
92N 103+50E	201	30	33	450	11	<10	--
92N 104+00E	201	26	18	220	9	<10	--
92N 104+25E	201	70	21	182	6	<10	--
92N 104+50E	201	60	21	155	7	<10	--
92N 104+75E	201	40	17	270	6	30	--
93N 92+00E	201	20	9	143	9	<10	--
93N 92+25E	201	20	11	230	12	<10	--
93N 92+50E	201	30	13	125	14	80	--
93N 92+75E	201	35	12	146	10	10	--
93N 93+00E	201	32	12	174	12	<10	--
93N 93+25E	201	16	18	152	10	<10	--
93N 93+50E	201	19	9	150	7	<10	--
93N 93+75E	201	19	12	169	7	<10	--
93N 94+00E	201	21	10	110	10	<10	--
93N 94+25E	201	133	16	155	16	<10	--
93N 94+50E	201	22	9	134	10	<10	--
93N 94+75E	201	21	11	156	10	<10	--
93N 95+00E	201	24	19	161	55	20	--
93N 95+25E	201	44	16	136	15	<10	--
93N 95+50E	201	38	25	184	11	<10	--
93N 95+75E	201	70	20	128	11	20	--
93N 96+00E	201	19	22	151	10	<10	--
93N 96+25E	201	22	12	140	7	<10	--
93N 96+50E	201	16	8	133	7	<10	--
93N 96+75E	201	35	13	145	11	<10	--
93N 97+00E	201	37	14	140	14	<10	--



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401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8314549-002-A
INVOICE # : I8314549
DATE : 15-SEP-83
P.O. # : NONE
209 ROOT

ATTN: B. FARIBANKS

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	AS ppm	AU-AA ppb	
93N 97+25E	201	66	17	100	15	10	--
93N 97+50E	201	39	17	108	10	<10	--
93N 97+75E	201	33	13	230	9	10	--
93N 98+00E	201	31	15	192	10	<10	--
93N 98+25E	201	31	37	168	10	<10	--
93N 98+50E	201	33	16	144	11	<10	--
93N 98+75E	201	58	18	186	12	10	--
93N 99+00E	201	67	8	100	14	<10	--
93N 99+25E	201	37	10	122	11	<10	--
93N 99+50E	201	30	21	122	16	<10	--
93N 99+75E	201	34	22	156	53	<10	--
93N 100+00E	201	33	19	98	39	<10	--
93N 100+25E	201	36	8	57	7	<10	--
93N 100+50E	201	36	14	118	10	<10	--
93N 100+75E	201	43	11	79	10	<10	--
93N 101+00E	201	41	12	107	9	<10	--
93N 101+25E	201	110	13	315	11	20	--
93N 101+50E	201	24	12	123	15	<10	--
93N 101+75E	201	11	11	110	7	<10	--
93N 102+00E	201	16	32	190	10	<10	--
93N 102+25E	201	29	13	200	12	<10	--
93N 102+50E	201	25	13	179	11	<10	--
93N 102+75E	201	19	12	131	9	<10	--
93N 103+00E	201	21	16	106	7	<10	--
93N 103+25E	201	22	10	152	7	<10	--
93N 103+50E	201	20	12	121	7	<10	--
93N 103+75E	201	12	19	150	12	10	--
93N 104+00E	201	22	13	119	5	<10	--
93N 104+25E	201	15	11	143	7	<10	--
93N 104+50E	201	13	32	111	6	<10	--
93N 104+75E	201	17	9	154	9	<10	--
93N 105+00E	201	14	19	260	11	<10	--
94N 100+00E	201	76	12	110	11	20	--
94N 100+25E	201	55	14	181	9	<10	--
94N 100+50E	201	36	25	230	11	10	--
94N 100+75E	201	46	19	215	9	<10	--
94N 101+00E	201	63	8	250	10	<10	--
94N 101+25E	201	39	28	215	12	<10	--
94N 101+50E	201	160	20	260	11	<10	--
94N 101+75E	201	21	32	205	10	<10	--

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V6B 2K4

CERT. # : A8314549-003-
INVOICE # : I8314549
DATE : 15-SEP-83
P.O. # : NONE
209 ROOT

ATTN: B. FARIBANKS

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	AS ppm	AU-AA ppb	
94N 102+00E	201	19	12	103	14	<10	--
94N 102+25E	201	13	20	183	11	<10	--
94N 102+50E	201	13	9	151	9	<10	--
94N 102+75E	201	12	15	280	10	<10	--
94N 103+00E	201	15	14	165	11	<10	--
94N 103+25E	201	12	25	265	9	10	--
94N 103+50E	201	16	16	270	9	<10	--
94N 103+75E	201	15	14	175	10	20	--
94N 104+00E	201	18	14	127	10	<10	--
94N 104+25E	201	15	15	190	12	10	--
94N 104+50E	201	15	16	290	11	<10	--
94N 104+75E	201	14	12	146	11	<10	--
94N 105+00E	201	14	9	94	9	<10	--
95N 95+00E	201	34	15	161	12	<10	--
95N 95+25E	201	29	21	210	15	<10	--
95N 95+50E	201	47	16	225	16	<10	--
95N 95+75E	201	63	17	158	20	<10	--
95N 96+00E	201	26	30	285	19	10	--
95N 96+25E	201	38	23	265	25	60	--
95N 96+50E	201	26	16	275	22	<10	--
95N 96+75E	201	29	21	310	19	<10	--
95N 97+00E	201	23	22	245	19	10	--
95N 97+25E	201	21	14	275	15	<10	--
95N 97+50E	201	31	29	310	20	<10	--
95N 97+75E	201	16	25	295	15	<10	--
95N 98+00E	201	37	16	230	16	10	--
95N 98+25E	201	29	22	340	17	<10	--
95N 98+50E	201	48	44	235	29	<10	--
95N 98+75E	201	57	44	215	24	<10	--
95N 99+00E	201	35	11	215	19	<10	--
95N 99+25E	201	31	26	180	25	<10	--
95N 99+50E	201	125	23	132	20	<10	--
95N 99+75E	201	79	11	116	11	<10	--
95N 100+00E	201	30	17	310	17	<10	--
95N 100+25E	201	60	19	430	53	20	--
95N 100+50E	201	85	15	780	19	<10	--
95N 100+75E	201	21	19	205	160	<10	--
95N 101+00E	201	23	63	410	17	<10	--
95N 101+25E	201	15	45	230	20	20	--
95N 101+50E	201	14	23	174	12	<10	--



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401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8314549-004-A
INVOICE # : I8314549
DATE : 15-SEP-83
P.C. # : NONE
209 ROOT

ATTN: B. FARIBANKS

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	AS ppm	AU-AA ppb	
95N 101+75E	201	13	15	119	9	<10	--
95N 102+00E	201	13	17	177	9	<10	--
95N 102+25E	201	21	14	172	11	20	--
95N 102+50E	201	20	13	150	10	<10	--
95N 102+75E	201	19	22	154	14	<10	--
95N 103+00E	201	16	12	230	7	<10	--
95N 103+25E	201	17	20	230	9	<10	--
95N 103+50E	201	16	11	119	9	50	--
95N 103+75E	201	22	15	161	11	<10	--
95N 104+00E	201	30	18	173	9	<10	--
95N 104+25E	201	20	22	280	10	20	--
95N 104+50E	201	34	20	530	14	40	--
95N 104+75E	201	12	14	159	9	<10	--
95N 105+00E	201	11	59	181	15	<10	--
96N 93+00E	201	24	12	190	19	20	--
96N 93+25E	201	110	12	140	19	<10	--
96N 93+50E	201	30	20	153	19	20	--
96N 93+75E	201	34	14	200	16	20	--
96N 94+00E	201	82	32	167	14	<10	--
96N 94+25E	201	58	20	123	22	20	--
96N 94+50E	201	48	29	245	24	10	--
96N 94+75E	201	34	18	148	14	20	--
96N 95+00E	201	31	19	142	11	30	--
96N 95+25E	201	14	14	270	11	20	--
96N 95+50E	201	21	13	230	15	<10	--
96N 95+75E	201	29	16	175	17	60	--
96N 96+00E	201	29	15	210	22	<10	--
96N 96+25E	201	26	26	175	24	20	--
96N 96+50E	201	138	108	205	19	<10	--
96N 96+75E	201	24	35	215	22	10	--
96N 97+00E	201	62	32	193	20	<10	--
96N 97+25E	201	76	19	195	29	100	--
96N 97+50E	201	68	16	108	24	<10	--
96N 97+75E	201	38	18	265	29	<10	--
96N 98+00E	201	23	8	210	15	<10	--
96N 98+25E	201	33	80	210	29	20	--
96N 98+50E	201	36	20	290	20	10	--
96N 98+75E	201	28	13	195	16	10	--
96N 99+00E	201	27	15	136	17	20	--
96N 99+25E	201	15	14	161	15	<10	--



Certified by *Hart Bichler*



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

CERT. # : A8314549-005-1
INVOICE # : I8314549
DATE : 15-SEP-83
P.O. # : NONE
209 ROCT

401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

ATTN: B. FARIBANKS

Sample description	Prep code	Cu ppr	Pb ppm	Zn ppm	AS ppm	AU-AA ppb	
96N 99+50E	201	54	45	122	20	20	--
96N 99+75E	201	32	38	142	19	<10	--
96N 100+00E A	201	55	9	86	14	<10	--
96N 100+00E B	201	27	11	132	29	<10	--
96N 100+25E	201	39	21	124	22	<10	--
96N 100+50E	201	30	10	126	23	<10	--
96N 100+75E	201	40	27	150	69	20	--
96N 101+00E	201	26	12	89	19	<10	--
96N 101+25E	201	22	20	100	17	<10	--
96N 101+50E	201	23	12	122	12	<10	--
96N 101+75E	201	22	10	98	12	<10	--
96N 102+00E	201	28	18	620	11	<10	--
96N 102+25E	201	26	14	170	16	<10	--
96N 102+50E	201	18	11	117	14	120	--
96N 102+75E	201	14	6	111	11	<10	--
96N 103+00E	201	19	10	117	12	<10	--
96N 103+25E	201	28	14	149	11	10	--
96N 103+50E	201	19	8	189	10	<10	--
96N 103+75E	201	16	12	163	11	20	--
96N 104+00E	201	21	11	172	11	10	--
96N 104+25E	201	25	11	127	11	20	--
96N 104+50E	201	20	15	126	15	30	--
96N 104+75E	201	25	16	136	10	10	--
96N 105+00E	201	17	18	151	10	10	--
96N B 95+00E	201	39	11	275	17	10	--
96N B 95+25E	201	23	9	420	15	<10	--
96N B 95+50E	201	32	11	310	17	<10	--
96N B 95+75E	201	30	12	290	19	440	--
96N B 96+00E	201	20	17	290	20	<10	--
96N B 96+25E	201	42	13	320	17	20	--
96N B 96+50E	201	33	21	445	20	<10	--
96N B 96+75E	201	66	16	570	22	<10	--
96N B 97+00E	201	37	12	340	23	<10	--
96N B 97+25E	201	50	15	375	29	20	--
96N B 97+50E	201	38	15	255	35	<10	--
96N B 97+75E	201	28	37	245	23	<10	--
96N B 98+00E	201	24	25	295	15	<10	--
96N B 98+25E	201	31	20	280	23	<10	--
96N B 98+50E	201	40	15	205	23	<10	--
96N B 98+75E	201	46	21	205	25	<10	--

Hart Bechler

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CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

TELEPHONE: (604) 984-0221
TELEX: 043-52597

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8314549-006-A
INVOICE # : I8314549
DATE : 15-SEP-83
P.O. # : NONE
209 ROOT

ATTN: B. FARIBANKS

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	AS ppm	AU-AA ppb	
96N B 99+00E	201	35	27	230	33	<10	--
96N B 99+25E	201	88	11	235	36	<10	--
97N 95+00E	201	52	15	400	17	<10	--
97N 95+25E	201	39	19	310	17	<10	--
97N 95+50E	201	27	22	325	17	<10	--
97N 95+75E	201	54	14	230	19	<10	--
97N 96+00E	201	42	17	350	16	<10	--
97N 96+25E	201	31	12	590	17	<10	--
97N 96+50E	201	67	16	400	16	150	--
97N 96+75E	201	67	26	615	30	<10	--
97N 97+00E	201	128	31	910	15	<10	--
97N 97+25E	201	176	54	325	22	<10	--
97N 97+50E	201	104	14	370	17	<10	--
97N 97+75E	201	85	12	280	14	<10	--
97N 98+00E	201	72	23	350	32	<10	--
97N 98+25E	201	53	23	655	75	<10	--
97N 98+50E	201	66	15	330	180	<10	--
97N 98+75E	201	57	27	505	29	<10	--
97N 99+00E	201	88	27	325	14	<10	--
97N 99+25E	201	45	15	490	20	20	--
97N 99+50E	201	33	17	380	36	<10	--
97N 99+75E	201	49	28	415	67	<10	--
97N 100+00E	201	61	10	320	36	<10	--
97N 100+25E	201	23	10	390	24	<10	--
97N 100+50E	201	37	20	410	53	<10	--
97N 100+75E	201	20	12	131	20	<10	--
97N 101+00E	201	22	9	94	17	<10	--
97N 101+25E	201	38	10	90	17	<10	--
97N 101+50E	201	27	9	94	14	<10	--
97N 101+75E	201	24	15	118	12	<10	--
97N 102+00E	201	32	19	152	20	<10	--
97N 102+25E	201	37	16	154	15	10	--
97N 102+50E	201	32	13	136	20	<10	--
97N 102+75E	201	27	13	124	12	<10	--
97N 103+00E	201	50	30	192	20	<10	--
97N 103+25E	201	25	11	149	14	<10	--
97N 103+50E	201	25	14	122	14	<10	--
97N 103+75E	201	28	16	135	14	<10	--
97N 104+00E	201	24	20	158	12	10	--
97N 104+25E	201	20	13	200	11	<10	--

Hart Bichler

Certified by



MEMBER
CANADIAN TESTING
ASSOCIATION



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8314550-001-A
INVOICE # : I8314550
DATE : 19-SEP-83
P.O. # : NONE
209 ROOT

ATTN: B. FAIRBANKS

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	AS ppm	AU-AA ppb	
97N 104+50E	201	26	16	157	6	<10	--
97N 104+75E	201	22	11	285	6	<10	--
97N 105+00E	201	22	18	190	6	<10	--
97N B 93+00E	201	39	7	96	14	<10	--
97N B 93+25E	201	28	11	135	17	<10	--
97N B 93+50E	201	52	17	198	24	<10	--
97N B 93+75E	201	158	17	121	22	<10	--
97N B 94+00E	201	130	26	378	22	<10	--
97N B 94+25E	201	55	23	373	17	<10	--
97N B 94+50E	201	87	17	250	29	30	--
97N B 94+75E	201	35	14	330	11	10	--
97N B 95+00E	201	46	15	395	15	<10	--
97N B 95+25E	201	53	14	250	10	<10	--
97N B 95+50E	201	31	13	340	9	<10	--
97N B 95+75E	201	58	12	360	15	<10	--
97N B 96+00E	201	30	14	370	10	30	--
97N B 96+25E	201	30	12	430	11	<10	--
97N B 96+50E	201	40	18	410	10	<10	--
97N B 96+75E	201	66	11	255	15	10	--
97N B 97+00E	201	68	14	320	17	<10	--
97N B 97+25E	201	69	14	390	19	10	--
97N B 97+50E	201	34	14	335	16	<10	--
97N B 97+75E	201	88	16	172	30	<10	--
97N B 98+00E	201	51	27	183	39	10	--
97N B 98+25E	201	48	18	333	17	30	--
97N B 98+50E	201	47	14	357	24	<10	--
97N B 98+75E	201	175	38	440	25	10	--
97N B 99+00E	201	14	176	310	11	<10	--
97N B 99+25E	201	27	15	315	20	<10	--
97N B 99+50E	201	46	26	232	41	<10	--
97N B 99+75E	201	53	12	320	24	<10	--
97N B 100+00E	201	70	9	275	45	<10	--
98N 95+00E	201	53	11	300	15	<10	--
98N 95+25E	201	44	13	325	12	<10	--
98N 95+50E	201	41	13	366	14	<10	--
98N 95+75E	201	46	16	204	14	170	--
98N 96+00E	201	67	18	197	15	10	--
98N 96+25E	201	295	24	342	23	<10	--
98N 96+50E	201	76	14	380	19	<10	--
98N 96+75E	201	56	15	300	25	<10	--



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CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8314550-002-1
INVOICE # : 18314550
DATE : 19-SEP-83
P.O. # : NONE
209 ROOT

ATTN: B. FAIRBANKS

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	AS ppm	AU-AA ppb	
98N 97+00E	201	60	20	460	25	<10	--
98N 97+25E	201	22	15	450	30	<10	--
98N 97+50E	201	105	21	570	22	<10	--
98N 97+75E	201	52	24	370	30	10	--
98N 98+00E	201	67	26	286	19	<10	--
98N 98+25E	201	76	17	260	19	<10	--
98N 98+50E	201	62	16	230	24	<10	--
98N 98+75E	201	105	33	320	94	<10	--
98N 99+00E	201	70	20	373	19	<10	--
98N 99+25E	201	49	43	376	22	<10	--
98N 99+50E	201	50	126	350	17	<10	--
98N 99+75E	201	85	38	382	17	<10	--
98N 100+00E	201	48	17	166	15	10	--
98N 100+25E	201	91	17	190	15	<10	--
98N 100+50E	201	60	22	116	12	<10	--
98N 100+75E	201	51	19	120	12	<10	--
98N 101+00E	201	35	16	136	11	<10	--
98N 101+25E	201	21	14	120	7	<10	--
98N 101+50E	201	22	10	127	10	<10	--
98N 101+75E	201	22	12	150	12	<10	--
98N 102+00E	201	23	9	82	10	<10	--
98N 102+25E	201	26	20	120	10	<10	--
98N 102+50E	201	23	10	116	10	<10	--
98N 102+75E	201	23	12	95	10	<10	--
98N 103+00E	201	23	18	165	12	<10	--
98N 103+25E	201	39	22	149	5	<10	--
98N 103+50E	201	27	24	175	11	<10	--
98N 103+75E	201	22	13	114	11	<10	--
98N 104+00E	201	21	15	143	9	<10	--
98N 104+25E	201	24	17	172	17	<10	--
98N 104+50E	201	25	17	205	10	<10	--
98N 104+75E	201	22	28	195	11	<10	--
98N 105+00E	201	30	20	140	11	40	--
99N 95+00E	201	27	11	250	15	<10	--
99N 95+25E	201	62	15	199	15	<10	--
99N 95+50E	201	30	15	284	10	<10	--
99N 95+75E	201	50	11	480	10	<10	--
99N 96+00E	201	65	10	175	9	<10	--
99N 96+25E	201	42	11	260	7	<10	--
99N 96+50E	201	113	16	342	16	<10	--



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CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8314550-003-1
INVOICE # : I8314550
DATE : 19-SEP-83
P.O. # : NONE
209 ROOT

ATTN: B. FAIRBANKS

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	AS ppm	AU-AA ppb	
99N 96+75E	201	120	11	290	DELAYED	20	--
99N 97+00E	201	63	11	580	DELAYED	<10	--
99N 97+25E	201	150	21	350	DELAYED	<10	--
99N 97+50E	201	70	15	327	DELAYED	<10	--
99N 97+75E	201	45	12	270	DELAYED	<10	--
99N 98+00E	201	108	16	220	DELAYED	70	--
99N 98+25E	201	105	20	278	DELAYED	<10	--
99N 98+50E	201	143	13	480	DELAYED	<10	--
99N 98+75E	201	185	79	830	DELAYED	<10	--
99N 99+00E	201	205	850	1650	DELAYED	<10	--
99N 99+25E	201	110	43	320	DELAYED	<10	--
99N 99+50E	201	75	17	262	DELAYED	<10	--
99N 99+75E	201	72	15	220	DELAYED	<10	--
99N 100+00E	201	230	17	202	DELAYED	100	--
99N 100+25E	201	30	8	122	DELAYED	10	--
99N 100+50E	201	48	10	125	DELAYED	10	--
99N 100+75E	201	30	10	156	DELAYED	<10	--
99N 101+00E	201	35	16	177	DELAYED	<10	--
99N 101+25E	201	22	10	131	DELAYED	<10	--
99N 101+50E	201	23	9	100	DELAYED	<10	--
99N 101+75E	201	22	8	98	DELAYED	<10	--
99N 102+00E	201	22	8	94	DELAYED	<10	--
99N 102+25E	201	22	8	104	DELAYED	<10	--
99N 102+50E	201	20	11	130	DELAYED	<10	--
99N 102+75E	201	21	8	109	DELAYED	<10	--
99N 103+00E	201	20	7	130	DELAYED	<10	--
99N 103+25E	201	36	11	142	DELAYED	<10	--
99N 103+50E	201	35	13	122	DELAYED	<10	--
99N 103+75E	201	45	9	165	DELAYED	<10	--
99N 104+00E	201	40	10	176	DELAYED	<10	--
99N 104+25E	201	135	28	257	DELAYED	<10	--
99N 104+50E	201	65	18	182	DELAYED	<10	--
99N 104+75E	201	46	26	760	DELAYED	<10	--
99N 105+00E	201	65	16	600	DELAYED	<10	--
100N 95+00E	201	68	18	227	DELAYED	<10	--
100N 95+25E	201	74	12	300	DELAYED	<10	--
100N 95+50E	201	100	17	320	DELAYED	<10	--
100N 96+00E	201	42	13	700	DELAYED	10	--
100N 96+25E	201	25	8	530	DELAYED	<10	--
100N 96+50E	201	33	15	500	DELAYED	<10	--



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CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

TELEPHONE: (604) 984-0221
TELEX: 043-52597

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8314550-004-1
INVOICE # : 18314550
DATE : 19-SEP-83
P.O. # : NONE
209 ROOT

ATTN: B. FAIRBANKS

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	AS ppm	AU-AA ppb	
100N 96+75E	201	115	19	570	25	40	--
100N 97+00E	201	100	25	1550	27	<10	--
100N 97+25E	201	118	19	340	27	20	--
100N 97+50E	201	129	22	301	32	<10	--
100N 97+75E	201	52	14	630	24	<10	--
100N 98+00E	201	90	17	400	41	120	--
100N 98+50E	201	148	104	480	48	20	--
100N 99+00E	201	43	24	247	16	10	--
100N 99+25E	201	30	14	390	22	<10	--
100N 99+50E	201	52	13	260	81	20	--
100N 99+75E	201	475	14	470	870	600	--
100N 100+00E	201	160	60	280	660	3500	--
100N 100+25E	201	53	15	278	36	10	--
100N 100+50E	201	61	16	290	17	10	--
100N 100+75E	201	120	13	200	12	<10	--
100N 101+00E	201	46	14	183	10	<10	--
100N 101+25E	201	35	14	143	7	<10	--
100N 101+50E	201	30	14	145	7	<10	--
100N 101+75E	201	37	15	156	9	<10	--
100N 102+00E	201	31	16	400	9	<10	--
100N 102+25E	201	31	22	154	10	20	--
100N 102+50E	201	21	16	88	7	<10	--
100N 102+75E	201	19	11	100	6	<10	--
100N 103+00E	201	20	14	198	6	<10	--
100N 103+25E	201	18	27	152	22	<10	--
100N 103+50E	201	21	12	95	6	10	--
100N 103+75E	201	22	16	121	7	<10	--
100N 104+00E	201	18	11	153	6	10	--
100N 104+25E	201	19	16	170	7	20	--
100N 104+50E	201	30	14	270	7	<10	--
100N 104+75E	201	50	14	324	15	<10	--
100N 105+00E	201	62	16	480	11	<10	--
101N 95+50E	201	76	20	430	17	<10	--
101N 96+00E	201	140	18	630	23	<10	--
101N 96+25E	201	47	16	356	12	<10	--
101N 96+50E	201	32	11	425	10	20	--
101N 96+75E	201	42	10	670	11	<10	--
101N 97+00E	201	55	18	1070	22	<10	--
101N 97+25E	201	95	22	750	33	10	--
101N 97+50E	201	47	27	1020	24	20	--



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CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8314550-005-1
INVOICE # : I8314550
DATE : 19-SEP-83
P.O. # : NONE
209 ROOT

ATTN: B. FAIRBANKS

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	AS ppm	AU-AA ppb	
101N 97+75E	201	85	31	1450	36	<10	--
101N 98+00E	201	113	22	245	50	<10	--
101N 98+25E	201	74	15	429	27	20	--
101N 98+50E	201	72	15	227	43	<10	--
101N 99+00E	201	74	33	1300	85	10	--
101N 99+25E	201	148	89	990	145	<10	--
101N 99+50E	201	105	176	500	125	<10	--
101N 99+75E	201	62	18	227	20	<10	--
101N 100+00E	201	80	10	146	29	20	--
101N 100+25E	201	92	10	162	36	20	--
101N 100+50E	201	25	11	480	10	<10	--
101N 100+75E	201	20	15	640	7	<10	--
101N 101+00E	201	37	24	328	55	<10	--
101N 101+25E	201	49	17	270	15	10	--
101N 101+50E	201	22	20	710	19	<10	--
101N 101+75E	201	17	19	260	15	<10	--
101N 102+00E	201	21	20	225	14	<10	--
101N 102+25E	201	22	22	168	12	<10	--
101N 102+50E	201	18	17	200	7	10	--
101N 102+75E	201	16	52	98	16	<10	--
101N 103+00E	201	18	17	189	7	<10	--
101N 103+25E	201	17	13	128	5	10	--
101N 103+50E	201	22	27	227	11	10	--
101N 103+75E	201	23	19	204	9	40	--
101N 104+00E	201	21	11	185	9	<10	--
101N 104+25E	201	33	20	480	9	<10	--
101N 104+50E	201	43	19	190	5	<10	--
101N 104+75E	201	22	15	135	10	<10	--
101N 105+00E	201	22	20	178	6	<10	--
102N 95+00E	201	65	13	142	20	<10	--
102N 95+25E	201	36	8	144	10	<10	--
102N 95+50E	201	66	10	87	22	20	--
102N 95+75E	201	65	7	99	14	<10	--
102N 96+00E	201	140	15	280	33	<10	--
102N 96+25E	201	42	14	160	23	20	--
102N 96+50E	201	54	11	270	22	<10	--
102N 96+75E	201	54	7	106	17	<10	--
102N 97+00E	201	64	11	166	17	<10	--
102N 97+25E	201	96	15	150	24	<10	--
102N 97+50E	201	55	13	153	20	<10	--



Certified by *Hart Bichler*



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8314550-006-
INVOICE # : I8314550
DATE : 19-SEP-83
P.O. # : NONE
209 ROOT

ATTN: B. FAIRBANKS

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	AS ppm	AU-AA ppb	
102N 97+75E	201	76	12	198	19	<10	--
102N 98+00E	201	38	9	445	15	<10	--
102N 98+25E	201	178	20	132	45	<10	--
102N 98+50E	201	122	26	158	67	<10	--
102N 98+75E	201	100	12	112	25	<10	--
102N 99+00E	201	70	8	139	29	10	--
102N 99+25E	201	35	38	228	39	<10	--
102N 99+50E	201	57	16	141	81	<10	--
102N 100+25E	201	75	26	490	79	<10	--
102N 100+50E	201	39	14	229	38	<10	--
102N 100+75E	201	30	29	150	30	<10	--
102N 101+00E	201	23	15	137	16	<10	--
102N 101+25E	201	12	17	230	11	<10	--
102N 101+50E	201	28	20	630	11	<10	--
102N 101+75E	201	19	23	132	12	<10	--
102N 102+00E	201	17	22	181	16	10	--
102N 102+25E	201	24	12	113	12	<10	--
102N 102+50E	201	20	21	137	11	<10	--
102N 102+75E	201	15	25	275	24	<10	--
102N 103+00E	201	16	16	173	10	<10	--
102N 103+25E	201	13	17	400	10	10	--
102N 103+50E	201	17	12	187	6	20	--
102N 103+75E	201	15	12	184	12	50	--
102N 104+00E	201	32	14	132	9	<10	--



Certified by *Hart Bichler*



CHEMEX LABS LTD.

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NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8314551-001-A
INVOICE # : 18314551
DATE : 19-SEP-83
P.O. # : NONE
209 ROOT

ATTN: B. FAIRBANK

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	AS ppm	AU-AA ppb	
102N 104+50E	201	20	13	360	6	<10	--
102N 104+75E	201	28	21	159	7	<10	--
102N 105+00E	201	18	31	200	20	<10	--
102N 105+25E	201	17	8	96	6	<10	--
102N 105+50E	201	14	15	147	15	<10	--
102N 105+75E	201	16	10	130	10	<10	--
102N 106+00E	201	15	12	100	9	<10	--
102N 106+25E	201	14	13	120	11	10	--
102N 106+50E	201	14	10	260	9	<10	--
102N 106+75E	201	18	13	212	9	<10	--
102N 107+00E	201	14	12	110	6	<10	--
102N 107+25E	201	16	50	173	7	<10	--
102N 107+50E	201	13	8	121	7	<10	--
102N 107+75E	201	14	7	125	5	<10	--
102N 108+00E	201	24	7	123	9	<10	--
103N 99+00E	201	185	9	170	110	30	--
103N 99+25E	201	165	17	157	85	<10	--
103N 99+50E	201	163	11	116	57	<10	--
103N 99+75E	201	45	9	183	41	<10	--
103N 100+25E	201	43	9	240	36	<10	--
103N 100+50E	201	51	14	205	33	<10	--
103N 100+75E	201	35	11	144	29	<10	--
103N 101+00E	201	40	14	198	43	<10	--
103N 101+25E	201	28	19	330	39	<10	--
103N 101+50E	201	27	20	520	53	<10	--
103N 102+00E	201	18	16	490	14	<10	--
103N 102+25E	201	22	50	375	15	<10	--
103N 102+50E	201	23	40	440	14	20	--
103N 103+00E	201	41	69	306	11	<10	--
103N 103+25E	201	22	23	430	11	10	--
103N 103+50E	201	25	21	341	12	10	--
103N 103+75E	201	17	15	190	14	<10	--
103N 104+00E	201	21	13	360	10	<10	--
103N 104+25E	201	41	15	540	15	20	--
103N 104+75E	201	72	17	300	15	<10	--
103N 105+00E	201	18	18	400	7	<10	--
103N 105+25E	201	19	9	138	15	<10	--
103N 105+75E	201	14	10	105	7	<10	--
103N 106+00E	201	17	8	95	7	<10	--
103N 106+25E	201	16	10	128	10	<10	--



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CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8314551-002-1
INVOICE # : I8314551
DATE : 19-SEP-83
P.O. # : NONE
209 ROOT

ATTN: B. FAIRBANK

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	AS ppm	AU-AA ppb	
103N 106+50E	201	18	13	158	10	10	--
103N 106+75E	201	14	8	110	6	20	--
103N 107+00E	201	18	9	140	7	<10	--
103N 107+25E	201	13	18	187	11	<10	--
103N 107+50E	201	18	11	106	10	10	--
103N 107+75E	201	19	9	104	11	<10	--
103N 108+00E	201	23	10	120	15	20	--
95E 97+25N	201	40	11	267	16	<10	--
95E 97+50N	201	39	12	308	14	10	--
95E 97+75N	201	72	12	247	19	10	--
95E 99+25N	201	33	10	220	12	<10	--
95E 99+50N	201	85	12	151	27	10	--
95E 99+75N	201	60	13	182	16	<10	--
95E 100+25N	201	58	13	257	20	30	--
95E 100+50N	201	65	18	406	22	<10	--
95E 100+75N	201	235	32	259	32	10	--
95E 101+00N	201	19	6	200	11	<10	--
95E 101+25N	201	40	8	114	14	<10	--
95E 101+50N	201	25	9	172	15	10	--
95E 101+75N	201	24	8	131	10	<10	--
105E 99+25N	201	33	17	335	12	10	--
105E 99+50N	201	70	22	590	12	20	--
105E 102+25N	201	28	10	140	11	<10	--
105E 102+50N	201	17	8	77	9	20	--
105E 102+75N	201	27	9	103	10	<10	--



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CHEMEX LABS LTD.

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 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE: (604) 984-0221
 TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401-134 ABBOTT ST.,
 VANCOUVER, B.C.
 V6B 2K4

CERT. # : A8314550-001-/
 INVOICE # : I8314550
 DATE : 20-SEP-83
 P.O. # : NONE
 209 ROOT

ATTN: B. FAIRBANKS

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	AS ppm	AU-AA ppb	
97N 104+50E	201	26	16	157	6	<10	--
97N 104+75E	201	22	11	285	6	<10	--
97N 105+00E	201	22	18	190	6	<10	--
97N B 93+00E	201	39	7	96	14	<10	--
97N B 93+25E	201	28	11	135	17	<10	--
97N B 93+50E	201	52	17	198	24	<10	--
97N B 93+75E	201	158	17	121	22	<10	--
97N B 94+00E	201	130	26	378	22	<10	--
97N B 94+25E	201	55	23	373	17	<10	--
97N B 94+50E	201	87	17	250	29	30	--
97N B 94+75E	201	35	14	330	11	10	--
97N B 95+00E	201	46	15	395	15	<10	--
97N B 95+25E	201	53	14	250	10	<10	--
97N B 95+50E	201	31	13	340	9	<10	--
97N B 95+75E	201	58	12	360	15	<10	--
97N B 96+00E	201	30	14	370	10	30	--
97N B 96+25E	201	30	12	430	11	<10	--
97N B 96+50E	201	40	18	410	10	<10	--
97N B 96+75E	201	66	11	255	15	10	--
97N B 97+00E	201	68	14	320	17	<10	--
97N B 97+25E	201	69	14	390	19	10	--
97N B 97+50E	201	34	14	335	16	<10	--
97N B 97+75E	201	88	16	172	30	<10	--
97N B 98+00E	201	51	27	183	39	10	--
97N B 98+25E	201	48	18	333	17	30	--
97N B 98+50E	201	47	14	357	24	<10	--
97N B 98+75E	201	175	38	440	25	10	--
97N B 99+00E	201	14	176	310	11	<10	--
97N B 99+25E	201	27	15	315	20	<10	--
97N B 99+50E	201	46	26	232	41	<10	--
97N B 99+75E	201	53	12	320	24	<10	--
97N B 100+00E	201	70	9	275	45	<10	--
98N 95+00E	201	53	11	300	15	<10	--
98N 95+25E	201	44	13	325	12	<10	--
98N 95+50E	201	41	13	366	14	<10	--
98N 95+75E	201	46	16	204	14	170	--
98N 96+00E	201	67	18	197	15	10	--
98N 96+25E	201	295	24	342	23	<10	--
98N 96+50E	201	76	14	380	19	<10	--
98N 96+75E	201	56	15	300	25	<10	--

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CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8314550-002-A
INVOICE # : I8314550
DATE : 20-SEP-83
P.O. # : NONE
209 ROOT

ATTN: B. FAIRBANKS

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	AS ppm	AU-AA ppb	
98N 97+00E	201	60	20	460	25	<10	--
98N 97+25E	201	22	15	450	30	<10	--
98N 97+50E	201	105	21	570	22	<10	--
98N 97+75E	201	52	24	370	30	10	--
98N 98+00E	201	67	26	286	19	<10	--
98N 98+25E	201	76	17	260	19	<10	--
98N 98+50E	201	62	16	230	24	<10	--
98N 98+75E	201	105	33	320	94	<10	--
98N 99+00E	201	70	20	373	19	<10	--
98N 99+25E	201	49	43	376	22	<10	--
98N 99+50E	201	50	126	350	17	<10	--
98N 99+75E	201	85	38	382	17	<10	--
98N 100+00E	201	48	17	166	15	10	--
98N 100+25E	201	91	17	190	15	<10	--
98N 100+50E	201	60	22	116	12	<10	--
98N 100+75E	201	51	19	120	12	<10	--
98N 101+00E	201	35	16	136	11	<10	--
98N 101+25E	201	21	14	120	7	<10	--
98N 101+50E	201	22	10	127	10	<10	--
98N 101+75E	201	22	12	150	12	<10	--
98N 102+00E	201	23	9	82	10	<10	--
98N 102+25E	201	26	20	120	10	<10	--
98N 102+50E	201	23	10	116	10	<10	--
98N 102+75E	201	23	12	95	10	<10	--
98N 103+00E	201	23	18	165	12	<10	--
98N 103+25E	201	39	22	149	5	<10	--
98N 103+50E	201	27	24	175	11	<10	--
98N 103+75E	201	22	13	114	11	<10	--
98N 104+00E	201	21	15	143	9	<10	--
98N 104+25E	201	24	17	172	17	<10	--
98N 104+50E	201	25	17	205	10	<10	--
98N 104+75E	201	22	28	195	11	<10	--
98N 105+00E	201	30	20	140	11	40	--
99N 95+00E	201	27	11	250	15	<10	--
99N 95+25E	201	62	15	199	15	<10	--
99N 95+50E	201	30	15	284	10	<10	--
99N 95+75E	201	50	11	480	10	<10	--
99N 96+00E	201	65	10	175	9	<10	--
99N 96+25E	201	42	11	260	7	<10	--
99N 96+50E	201	113	16	342	16	<10	--



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CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD..

401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8314550-003-1
INVOICE # : I8314550
DATE : 20-SEP-83
P.O. # : NONE
209 ROOT

ATTN: B. FAIRBANKS

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	AS ppm	AU-AA ppb	
99N 96+75E	201	120	11	290	22	20	--
99N 97+00E	201	63	11	580	14	<10	--
99N 97+25E	201	150	21	350	22	<10	--
99N 97+50E	201	70	15	327	24	<10	--
99N 97+75E	201	45	12	270	38	<10	--
99N 98+00E	201	108	16	220	19	70	--
99N 98+25E	201	105	20	278	20	<10	--
99N 98+50E	201	143	13	480	11	<10	--
99N 98+75E	201	185	79	830	65	<10	--
99N 99+00E	201	205	850	1650	110	<10	--
99N 99+25E	201	110	43	320	13	<10	--
99N 99+50E	201	75	17	262	27	<10	--
99N 99+75E	201	72	15	220	43	<10	--
99N 100+00E	201	230	17	202	14	100	--
99N 100+25E	201	30	8	122	6	10	--
99N 100+50E	201	48	10	125	9	10	--
99N 100+75E	201	30	10	156	12	<10	--
99N 101+00E	201	35	16	177	10	<10	--
99N 101+25E	201	22	10	131	6	<10	--
99N 101+50E	201	23	9	100	4	<10	--
99N 101+75E	201	22	8	98	6	<10	--
99N 102+00E	201	22	8	94	5	<10	--
99N 102+25E	201	22	8	104	6	<10	--
99N 102+50E	201	20	11	130	9	<10	--
99N 102+75E	201	21	8	109	6	<10	--
99N 103+00E	201	20	7	130	6	<10	--
99N 103+25E	201	36	11	142	9	<10	--
99N 103+50E	201	35	13	122	7	<10	--
99N 103+75E	201	45	9	165	5	<10	--
99N 104+00E	201	40	10	176	4	<10	--
99N 104+25E	201	135	28	257	7	<10	--
99N 104+50E	201	65	18	182	5	<10	--
99N 104+75E	201	46	26	760	5	<10	--
99N 105+00E	201	65	16	600	7	<10	--
100N 95+00E	201	68	18	227	12	<10	--
100N 95+25E	201	74	12	300	15	<10	--
100N 95+50E	201	100	17	320	16	<10	--
100N 96+00E	201	42	13	700	16	10	--
100N 96+25E	201	25	8	530	36	<10	--
100N 96+50E	201	33	15	500	22	<10	--

Hart Buchler

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CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8314550-004-1
INVOICE # : I8314550
DATE : 20-SEP-83
P.O. # : NONE
209 ROOT

ATTN: B. FAIRBANKS

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	AS ppm	AU-AA ppb	
100N 96+75E	201	115	19	570	25	40	--
100N 97+00E	201	100	25	1550	27	<10	--
100N 97+25E	201	118	19	340	27	20	--
100N 97+50E	201	129	22	301	32	<10	--
100N 97+75E	201	52	14	630	24	<10	--
100N 98+00E	201	90	17	400	41	120	--
100N 98+50E	201	148	104	480	48	20	--
100N 99+00E	201	43	24	247	16	10	--
100N 99+25E	201	30	14	390	22	<10	--
100N 99+50E	201	52	13	260	81	20	--
100N 99+75E	201	475	14	470	870	600	--
100N 100+00E	201	160	60	280	660	3500	--
100N 100+25E	201	53	15	278	36	10	--
100N 100+50E	201	61	16	290	17	10	--
100N 100+75E	201	120	13	200	12	<10	--
100N 101+00E	201	46	14	183	10	<10	--
100N 101+25E	201	35	14	143	7	<10	--
100N 101+50E	201	30	14	145	7	<10	--
100N 101+75E	201	37	15	156	9	<10	--
100N 102+00E	201	31	16	400	9	<10	--
100N 102+25E	201	31	22	154	10	20	--
100N 102+50E	201	21	16	88	7	<10	--
100N 102+75E	201	19	11	100	6	<10	--
100N 103+00E	201	20	14	198	6	<10	--
100N 103+25E	201	18	27	152	22	<10	--
100N 103+50E	201	21	12	95	6	10	--
100N 103+75E	201	22	16	121	7	<10	--
100N 104+00E	201	18	11	153	6	10	--
100N 104+25E	201	19	16	170	7	20	--
100N 104+50E	201	30	14	270	7	<10	--
100N 104+75E	201	50	14	324	15	<10	--
100N 105+00E	201	62	16	480	11	<10	--
101N 95+50E	201	76	20	430	17	<10	--
101N 96+00E	201	140	18	630	23	<10	--
101N 96+25E	201	47	16	356	12	<10	--
101N 96+50E	201	32	11	425	10	20	--
101N 96+75E	201	42	10	670	11	<10	--
101N 97+00E	201	55	18	1070	22	<10	--
101N 97+25E	201	95	22	750	33	10	--
101N 97+50E	201	47	27	1020	24	20	--



MEMBER
CANADIAN TESTING
ASSOCIATION

Certified by *Hart Bichler*



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8314550-005-
INVOICE # : I8314550
DATE : 20-SEP-83
P.O. # : NONE
209 ROOT

ATTN: B. FAIRBANKS

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	AS ppm	AU-AA ppb	
101N 97+75E	201	85	31	1450	36	<10	--
101N 98+00E	201	113	22	245	50	<10	--
101N 98+25E	201	74	15	429	27	20	--
101N 98+50E	201	72	15	227	43	<10	--
101N 99+00E	201	74	33	1300	85	10	--
101N 99+25E	201	148	89	990	145	<10	--
101N 99+50E	201	105	176	500	125	<10	--
101N 99+75E	201	62	18	227	20	<10	--
101N 100+00E	201	80	10	146	29	20	--
101N 100+25E	201	92	10	162	36	20	--
101N 100+50E	201	25	11	480	10	<10	--
101N 100+75E	201	20	15	640	7	<10	--
101N 101+00E	201	37	24	328	55	<10	--
101N 101+25E	201	49	17	270	15	10	--
101N 101+50E	201	22	20	710	19	<10	--
101N 101+75E	201	17	19	260	15	<10	--
101N 102+00E	201	21	20	225	14	<10	--
101N 102+25E	201	22	22	168	12	<10	--
101N 102+50E	201	18	17	200	7	10	--
101N 102+75E	201	16	52	98	16	<10	--
101N 103+00E	201	18	17	189	7	<10	--
101N 103+25E	201	17	13	128	5	10	--
101N 103+50E	201	22	27	227	11	10	--
101N 103+75E	201	23	19	204	9	40	--
101N 104+00E	201	21	11	185	9	<10	--
101N 104+25E	201	33	20	480	9	<10	--
101N 104+50E	201	43	19	190	5	<10	--
101N 104+75E	201	22	15	135	10	<10	--
101N 105+00E	201	22	20	178	6	<10	--
102N 95+00E	201	65	13	142	20	<10	--
102N 95+25E	201	36	8	144	10	<10	--
102N 95+50E	201	66	10	87	22	20	--
102N 95+75E	201	65	7	99	14	<10	--
102N 96+00E	201	140	15	280	33	<10	--
102N 96+25E	201	42	14	160	23	20	--
102N 96+50E	201	54	11	270	22	<10	--
102N 96+75E	201	54	7	106	17	<10	--
102N 97+00E	201	64	11	166	17	<10	--
102N 97+25E	201	96	15	150	24	<10	--
102N 97+50E	201	55	13	153	20	<10	--

Certified by *Hart Buchler*





CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401-134 ABBOTT ST.,
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8314550-006-A
INVOICE # : I8314550
DATE : 20-SEP-83
P.O. # : NONE
209 ROOT

ATTN: B. FAIRBANKS

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	AS ppm	AU-AA ppb	
102N 97+75E	201	76	12	198	19	<10	--
102N 98+00E	201	38	9	445	15	<10	--
102N 98+25E	201	178	20	132	45	<10	--
102N 98+50E	201	122	26	158	67	<10	--
102N 98+75E	201	100	12	112	25	<10	--
102N 99+00E	201	70	8	139	29	10	--
102N 99+25E	201	35	38	228	39	<10	--
102N 99+50E	201	57	16	141	81	<10	--
102N 100+25E	201	75	26	490	79	<10	--
102N 100+50E	201	39	14	229	38	<10	--
102N 100+75E	201	30	29	150	30	<10	--
102N 101+00E	201	23	15	137	16	<10	--
102N 101+25E	201	12	17	230	11	<10	--
102N 101+50E	201	28	20	630	11	<10	--
102N 101+75E	201	19	23	132	12	<10	--
102N 102+00E	201	17	22	181	16	10	--
102N 102+25E	201	24	12	113	12	<10	--
102N 102+50E	201	20	21	137	11	<10	--
102N 102+75E	201	15	25	275	24	<10	--
102N 103+00E	201	16	16	173	10	<10	--
102N 103+25E	201	13	17	400	10	10	--
102N 103+50E	201	17	12	187	6	20	--
102N 103+75E	201	15	12	184	12	50	--
102N 104+00E	201	32	14	132	9	<10	--



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NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401 - 134 ABBOTT ST.
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8315001-001-1
INVOICE # : I8315001
DATE : 3-OCT-83
P.O. # : NONE
ROOT 209

Sample description	Prep code	AS ppm	AU-AA ppb				
103N 95+00E	201	7	20	--	--	--	--
103N 95+25E	201	14	70	--	--	--	--
103N 95+50E	201	29	<10	--	--	--	--
103N 95+75E	201	10	<10	--	--	--	--
103N 96+00E	201	12	20	--	--	--	--
103N 96+25E	201	27	<10	--	--	--	--
103N 96+50E	201	27	10	--	--	--	--
103N 96+75E	201	14	20	--	--	--	--
103N 97+00E	201	12	<10	--	--	--	--
103N 97+25E	201	19	<10	--	--	--	--
103N 97+50E	201	12	<10	--	--	--	--
103N 97+75E	201	14	60	--	--	--	--
103N 98+00E	201	14	<10	--	--	--	--
103N 98+25E	201	17	10	--	--	--	--
103N 98+50E	201	25	10	--	--	--	--
104N 95+00E	201	15	<10	--	--	--	--
104N 95+25E	201	12	20	--	--	--	--
104N 95+50E	201	12	10	--	--	--	--
104N 95+75E	201	15	<10	--	--	--	--
104N 96+00E	201	16	<10	--	--	--	--
104N 96+25E	201	12	<10	--	--	--	--
104N 96+50E	201	15	<10	--	--	--	--
104N 96+75E	201	17	<10	--	--	--	--
104N 97+00E	201	29	<10	--	--	--	--
104N 97+25E	201	15	20	--	--	--	--
104N 97+50E	201	11	<10	--	--	--	--
104N 97+75E	201	12	10	--	--	--	--
104N 98+00E	201	10	<10	--	--	--	--
104N 98+25E	201	15	<10	--	--	--	--
104N 98+50E	201	14	<10	--	--	--	--
104N 98+75E	201	20	<10	--	--	--	--
104N 99+00E	201	15	<10	--	--	--	--
104N 99+25E	201	19	<10	--	--	--	--
104N 99+50E	201	14	<10	--	--	--	--
104N 99+75E	201	32	<10	--	--	--	--
104N 100+00E	201	67	120	--	--	--	--
104N 100+25E	201	46	<10	--	--	--	--
104N 100+50E	201	40	10	--	--	--	--
104N 100+75E	201	36	10	--	--	--	--
104N 101+00E	201	55	<10	--	--	--	--



Certified by *Hart Bichler*



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401 - 134 ABBOTT ST.
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8315001-002-
INVOICE # : I8315001
DATE : 3-OCT-83
P.O. # : NONE
ROOT 209

Sample description	Prep code	AS ppm	AU-AA ppb				
104N 101+75E	201	41	<10	--	--	--	--
104N 102+00E	201	33	<10	--	--	--	--
104N 102+25E	201	43	20	--	--	--	--
104N 102+50E	201	99	70	--	--	--	--
104N 102+75E	201	29	<10	--	--	--	--
104N 103+00E	201	55	<10	--	--	--	--
104N 103+25E	201	36	<10	--	--	--	--
104N 103+50E	201	43	<10	--	--	--	--
104N 103+75E	201	15	10	--	--	--	--
104N 104+00E	201	22	<10	--	--	--	--
104N 104+25E	201	11	<10	--	--	--	--
104N 104+50E	201	15	<10	--	--	--	--
104N 104+75E	201	11	<10	--	--	--	--
104N 105+00E	201	7	<10	--	--	--	--
104N 105+25E	201	12	<10	--	--	--	--
104N 105+50E	201	11	<10	--	--	--	--
104N 105+75E	201	7	<10	--	--	--	--
104N 106+00E	201	10	<10	--	--	--	--
104N 106+25E	201	9	10	--	--	--	--
104N 106+50E	201	9	<10	--	--	--	--
105N +00N	201	16	20	--	--	--	--
105N 99+75E	201	9	10	--	--	--	--



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CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401 - 134 ABBOTT ST.
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8315231-001-A
INV. # : 18315231
DATE : 6-CCT-83
P.O. # : NONE
ROUT 209

ATTN: BRIAN FAIRBANKS

Sample description	Prep code	AS ppm	AU-AA ppb				
105N 100+25E	201	10	20	--	--	--	--
105N 100+50E	201	20	<10	--	--	--	--
105N 100+75E	201	20	<10	--	--	--	--
105N 101+00E	201	17	<10	--	--	--	--
105N 101+25E	201	57	<10	--	--	--	--
105N 101+50E	201	145	<10	--	--	--	--
105N 101+75E	201	110	20	--	--	--	--
105N 102+00E	201	530	<10	--	--	--	--
105N 102+25E	201	685	10	--	--	--	--
105N 102+50E	201	140	<10	--	--	--	--
105N 102+75E	201	200	10	--	--	--	--
105N 103+00E	201	100	<10	--	--	--	--
105N 103+25E	201	100	<10	--	--	--	--
105N 103+50E	201	65	<10	--	--	--	--
105N 103+75E	201	45	10	--	--	--	--
105N 104+00E	201	16	<10	--	--	--	--
105N 104+25E	201	17	<10	--	--	--	--
105N 104+75E	201	16	10	--	--	--	--
105N 105+00E	201	12	<10	--	--	--	--
105N 105+25E	201	22	<10	--	--	--	--
105N 105+50E	201	9	<10	--	--	--	--
105N 105+75E	201	11	10	--	--	--	--
105N 106+00E	201	12	<10	--	--	--	--
105N 106+25E	201	14	<10	--	--	--	--
105N 106+50E	201	20	<10	--	--	--	--
105N 106+75E	201	12	<10	--	--	--	--
105N 107+00E	201	22	<10	--	--	--	--
106N 00E	201	12	<10	--	--	--	--
106N 0+25E	201	17	10	--	--	--	--
106N 0+50E	201	39	<10	--	--	--	--
106N 0+75E	201	19	<10	--	--	--	--
106N 101+00E	201	9	<10	--	--	--	--
106N 101+25E	201	16	<10	--	--	--	--
106N 101+50E	201	16	20	--	--	--	--
106N 101+75E	201	9	<10	--	--	--	--
106N 102+00E	201	20	<10	--	--	--	--
106N 102+25E	201	23	<10	--	--	--	--
106N 102+50E	201	95	<10	--	--	--	--
106N 102+75E	201	51	<10	--	--	--	--
106N 103+00E	201	45	<10	--	--	--	--

Hart Buchler

Certified by



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CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : NEVIN SADLIER-BROWN GOODBRAND LTD.,

401 - 134 ABBOTT ST.
VANCOUVER, B.C.
V6B 2K4

CERT. # : A8315231-002-A
INVOICE # : I8315231
DATE : 6-OCT-83
P.O. # : NONE
ROUT 209

ATTN: BRIAN FAIRBANKS

Sample description	Prep code	AS ppm	AU-AA ppb				
106N 103 0+25E	201	240	<10	--	--	--	--
106N 104+00E	201	45	<10	--	--	--	--
106N 104 0+25E	201	61	<10	--	--	--	--
106N 104 0+50E	201	17	<10	--	--	--	--
106N 104 0+75E	201	39	<10	--	--	--	--
106N 105+00E	201	59	<10	--	--	--	--
106N 105+25E	201	36	<10	--	--	--	--
106N 105+50E	201	7	<10	--	--	--	--
106N 105+75E	201	22	<10	--	--	--	--
106N 106+00E	201	11	<10	--	--	--	--
106N 106+25E	201	9	<10	--	--	--	--
106N 106+50E	201	4	<10	--	--	--	--
106N 106+75E	201	7	<10	--	--	--	--
106N 107+00E	201	9	<10	--	--	--	--



MEMBER
CANADIAN TESTING
ASSOCIATION

Certified by *Hart Buchler*

APPENDIX D

Itemized Cost Statement

Itemized Cost StatementLabour

J. Reader		
36.5 days @ \$268.77/day		\$ 9,810.10
B. Swintz		
44.75 days @ \$260.80/day		11,670.80
D. Melrose		
9 days @ \$243.00/day		2,187.00
B. Fairbank		
93 hours @ \$58.82/hour		5,470.26
D. Goodbrand		
3 days @ \$446.67/day		1,340.01
J. Britton		
0.5 days @ \$360.00/day		180.00
T. Sadlier-Brown		
2.5 hours @ \$68.00/hour		170.00
G. Conway		
79 hours @ \$36.00/hour		2,844.00
R. Beynon		
7 days @ \$140.00/day		980.00
K. Syrja		
10 days @ \$144.60/day		1,446.00
J. Contini		
2 days @ \$140.00/day		280.00
G. Greer		
2 days @ \$140.00/day		280.00
B. Hardy		
8.5 days @ \$163.00/day		1,385.50
Anginel Resources (P. Santos)		
2.3 days @ \$200.00/day		<u>460.00</u>
	Sub Total	<u>\$ 38,503.67</u>

Disbursements

Qualifying Report from Anginel Resources		\$ 3,743.00
Vehicle Rental (includes mileage)		
29 days @ \$75.68/day		2,194.72
Travel, meals, accommodations		
147.4 man days @ \$43.29/day		6,380.95
Instrument Rental (VLF, Magnetometer, etc.)		1,250.79
Field Supplies		423.41
Assays		2,227.40
Drafting and Report Preparation		<u>3,499.89</u>
	Sub Total	<u>\$ 19,720.16</u>
	Grand Total	<u>\$ 58,223.83</u>

APPENDIX E
Geophysical Instrument Specifications



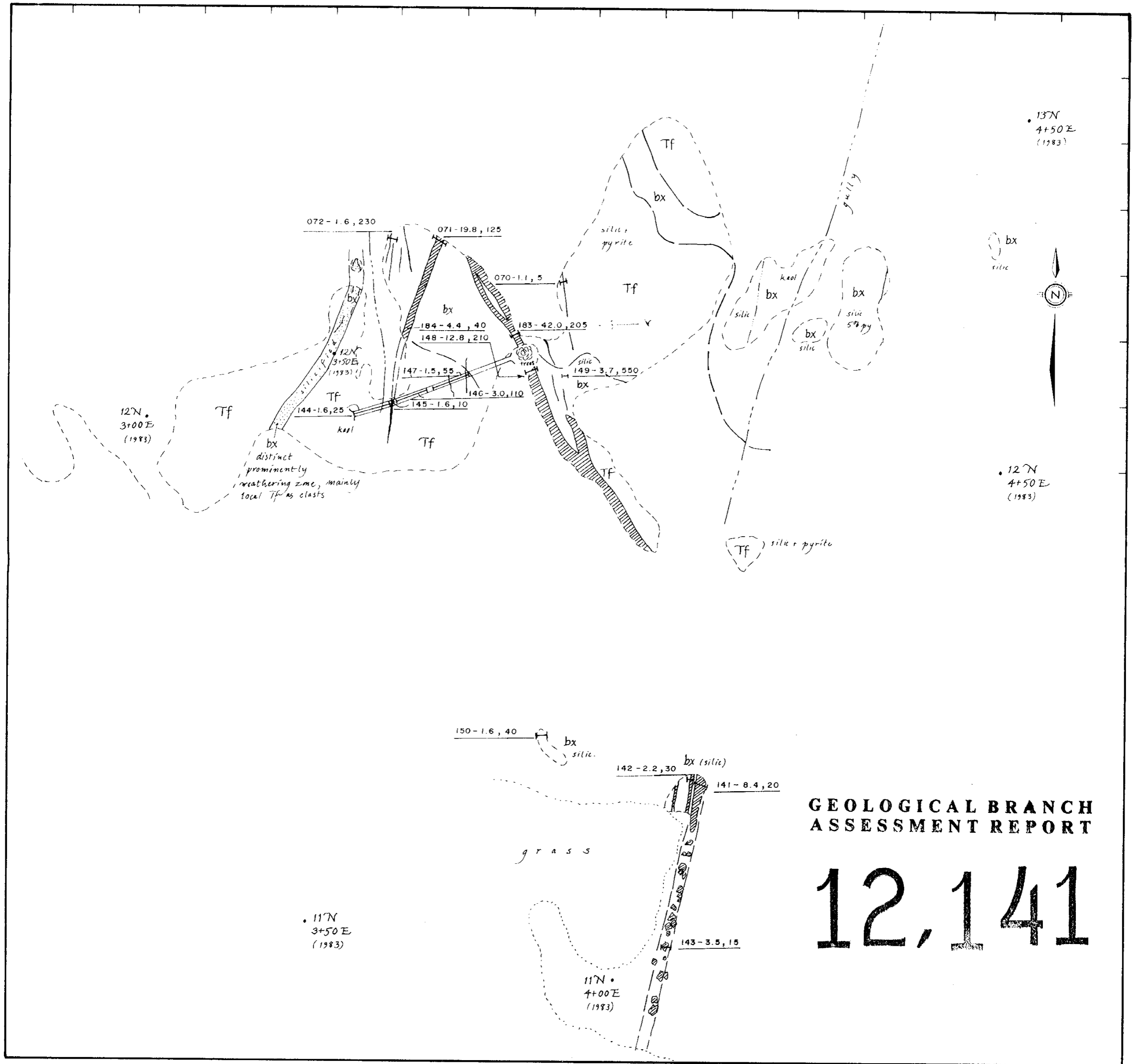
McPhar GP-81 Proton - 3 -
Magnetometer

2.0 SPECIFICATIONS

<u>Sensitivity</u>	:	1 gamma
<u>Range</u>	:	20,000 to 100,000 gammas
<u>Operating Temperature</u>	:	-30°C to +55°C
<u>Absolute Accuracy</u>	:	±1 gamma over temperature range
<u>Sensor</u>	:	Omni-directional, noise cancelling toroidal coil electrostatically balanced for minimum noise pick-up.
<u>Readout</u>	:	3.5 seconds total - by one push of button, continuous if button held depressed.
<u>Display</u>	:	LCD 5 digit, 2 status indicator lights for polarization and precession signal.
<u>Dimensions</u>	:	Console : 7 x 13.7 x 19 cm Sensor : 10.5 x 12.7 cm, cylinder Staff : 1.5 M extended
<u>Weight</u>	:	Console : 1.4 kg (including batteries) Sensor & Cable : 2.0 kg Aluminum Staff : 0.45 kg
<u>Power Supply</u>	:	Standard : 12 internally mounted alkaline "C" cells providing over 10,000 readings @ 25°C.
<u>Battery Indicator</u>	:	A miniature meter monitors battery for checking performance.

EM16 SPECIFICATIONS

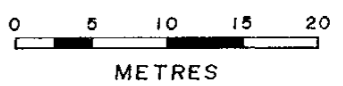
MEASURED QUANTITY	In-phase and quad-phase components of vertical magnetic field as a percentage of horizontal primary field. (i.e. tangent of the tilt angle and ellipticity).
SENSITIVITY	In-phase :±150% Quad-phase :± 40%
RESOLUTION	±1%
OUTPUT	Nulling by audio tone. In-phase indication from mechanical inclinometer and quad-phase from a graduated dial.
OPERATING FREQUENCY	15-25 kHz VLF Radio Band. Station selection done by means of plug-in units.
OPERATOR CONTROLS	On/Off switch, battery test push button, station selector switch, audio volume control, quadrature dial, inclinometer.
POWER SUPPLY	6 disposable 'AA' cells.
DIMENSIONS	42 x 14 x 9cm
WEIGHT	Instrument: 1.6 kg Shipping : 4.5 kg



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

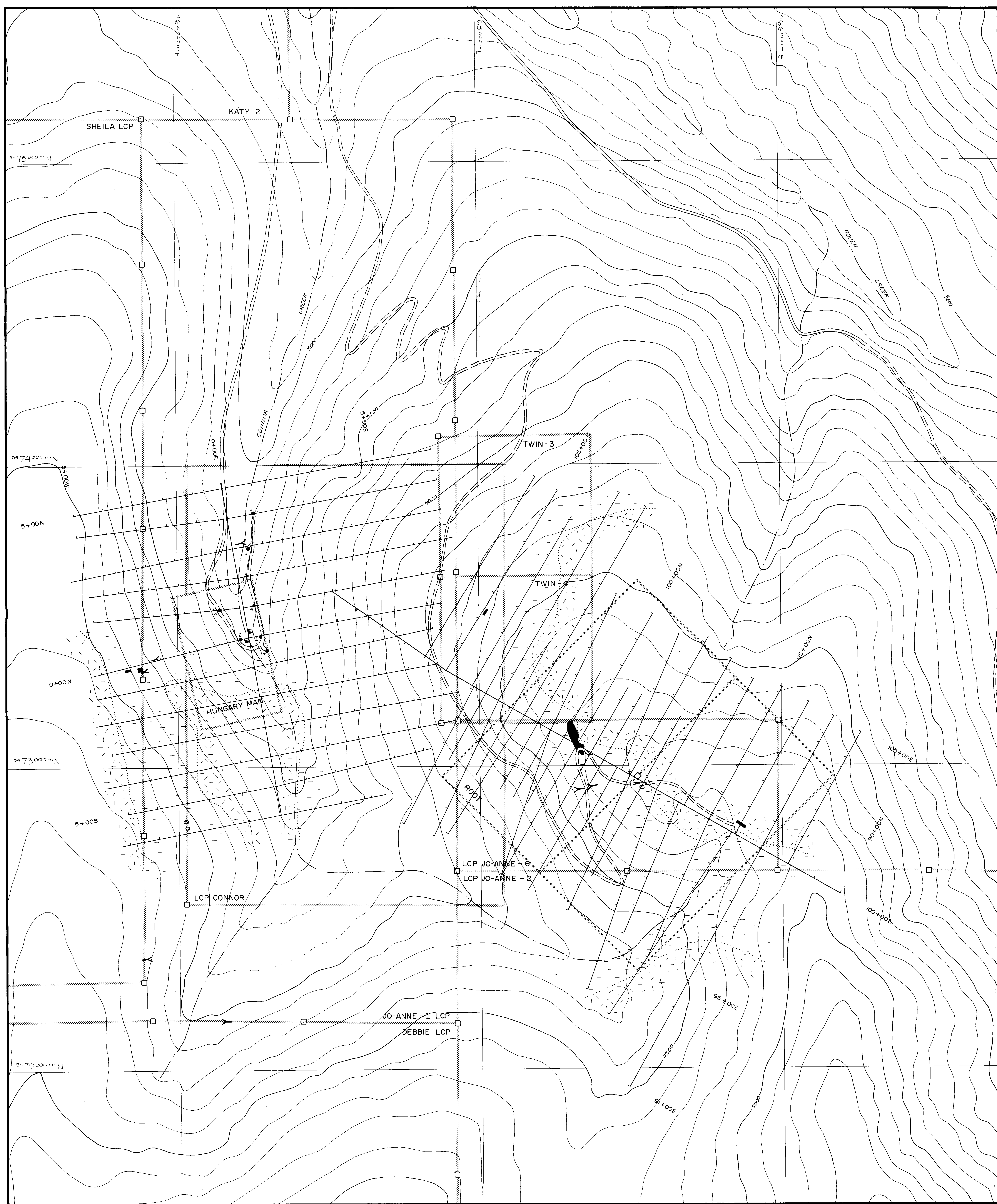
12,141

FIG. 6



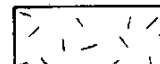
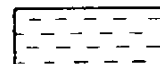
- Tf Trachyte flows ± dykes. Reddish-brown to gold on weathered fracture surfaces. Moderate to intense kaolinite and/or silica alteration.
- bx Breccia (polymict). Clasts in millimetre to centimetre size range, angular. Include Jurassic Takwahoni Formation shales and siltstones, local and exotic trachytes. Mildly to intensely silicified, pyritic.
- Sample interval
- (84) 074-1.2, 85 Sample number - Ag (ppm), Au (ppb).
- Quartz veins
- Outcrop limits

KERR ADDISON MINES LTD	
HART CLAIM GROUP	
STEEP ZONE GRID	
GEOLOGY & GEOCHEMISTRY	
SCALE - 1: 500	DATE - JULY, 1983
DRAWN BY - J. Nelson, P.Ht.	DATA - F. Daley, J. Nelson.
NTS - 104 K - 9	FIG. No.








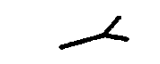




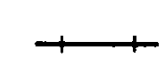


LEGEND

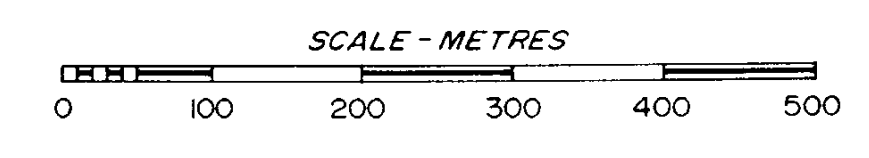
LITHOLOGIES

-  NELSON FORMATION
-  HALL FORMATION (±ELISE FORMATION)

STRUCTURES

-  Assumed geologic contact
-  100' contour interval
-  Creek
-  Roads
-  Trench
-  Pit
-  Shaft
-  Adit
-  Diamond drill hole (Cominco, 1980)
-  Cabin
-  Legal corner post
-  Claim boundaries
-  Survey grid

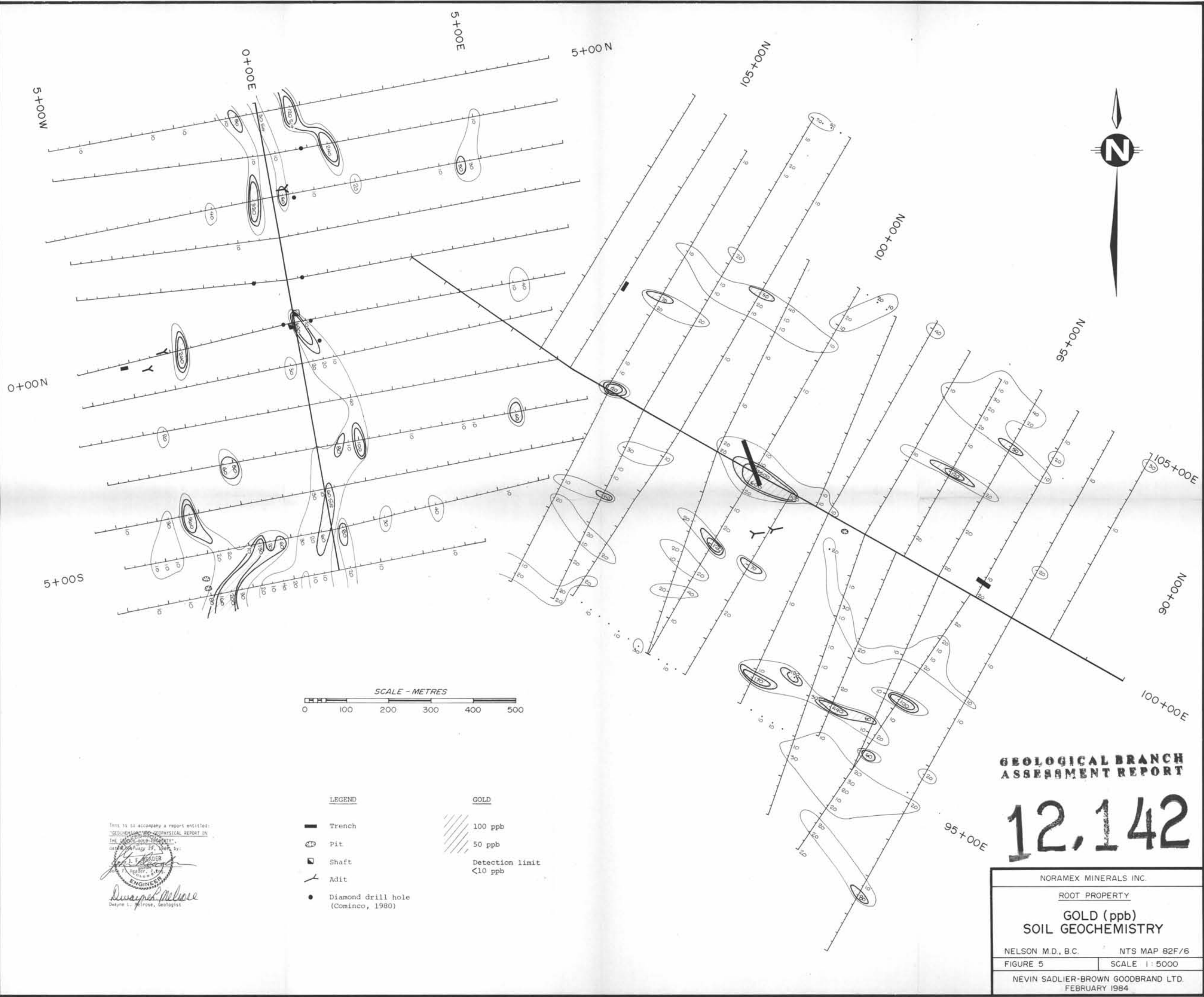
This is to accompany a report entitled:
 GEOLOGICAL BRANCH ASSESSMENT REPORT ON
 THE PROPERTY OF NORAMEX MINERALS INC.
 located in the Province of British Columbia.
 Dwayne L. Melrose
 Dwayne L. Melrose, Geologist



GEOLOGICAL BRANCH
 ASSESSMENT REPORT

12,142

NORAMEX MINERALS INC.	
ROOT PROPERTY	
PROPERTY GEOLOGY AND GRID MAP	
NELSON M.D., BC.	NTS MAP B2F/6
FIGURE 4	SCALE 1:5000
NEVIN SADLER-BROWN GOODBRAND LTD FEBRUARY 1984	



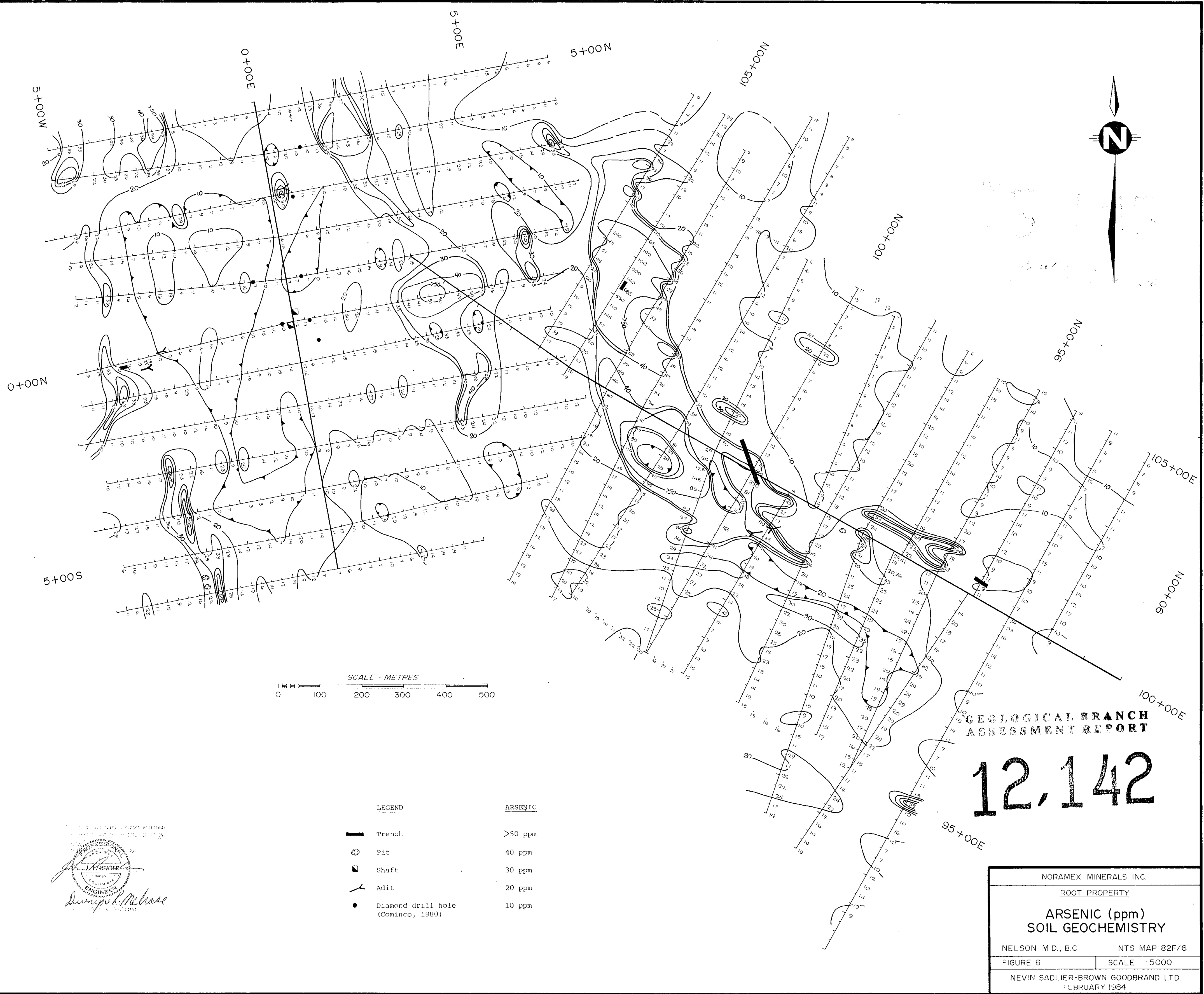
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,142

This is to accompany a report entitled:
"GEOCHEMICAL AND GEOPHYSICAL REPORT ON
THE GOLD PROPERTY"
dated August 29, 1984, by:
[Signature]
L. F. SLEADER
Professional Engineer
Dayne L. Atrose, Geologist

- LEGEND**
- Trench
 - Pit
 - Shaft
 - ∩ Adit
 - Diamond drill hole
(Cominco, 1980)
- GOLD**
- ▨ 100 ppb
 - 50 ppb
 - Detection limit
<10 ppb

NORAMEX MINERALS INC.	
ROOT PROPERTY	
GOLD (ppb) SOIL GEOCHEMISTRY	
NELSON M.D., B.C.	NTS MAP 82F/6
FIGURE 5	SCALE 1:5000
NEVIN SADLIER-BROWN GOODBRAND LTD. FEBRUARY 1984	



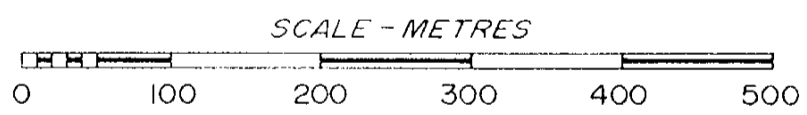
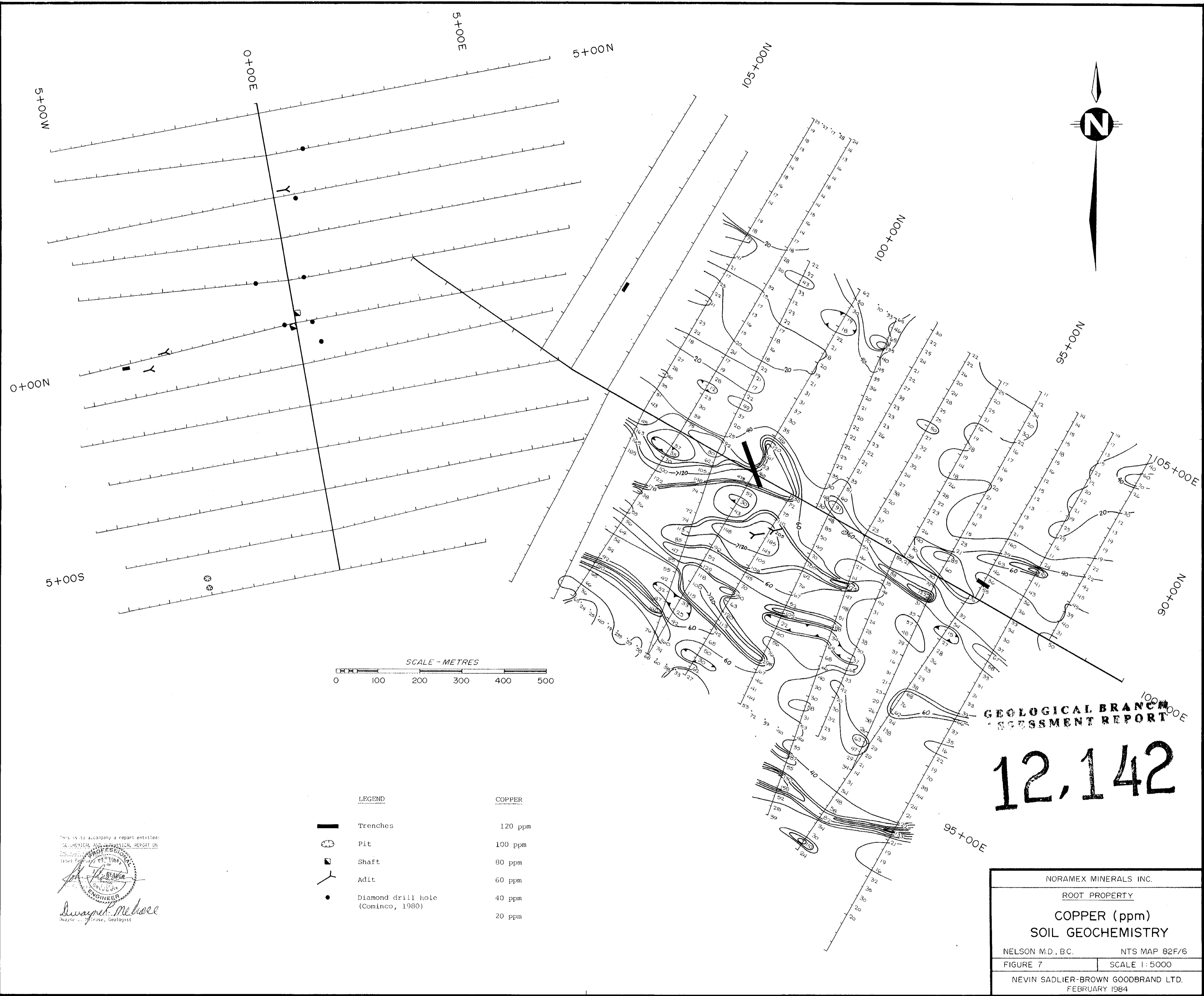
GEOLOGICAL BRANCH
ASSESSMENT REPORT

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LEGEND	ARSENIC
— Trench	>50 ppm
○ Pit	40 ppm
■ Shaft	30 ppm
↘ Adit	20 ppm
● Diamond drill hole (Cominco, 1980)	10 ppm

Professional Engineer
David P. McBase
 ENGINEER
 Geotechnical Engineer

NORAMEX MINERALS INC.	
ROOT PROPERTY	
ARSENIC (ppm) SOIL GEOCHEMISTRY	
NELSON M.D., B.C.	NTS MAP 82F/6
FIGURE 6	SCALE 1:5000
NEVIN SADLER-BROWN GOODBRAND LTD. FEBRUARY 1984	



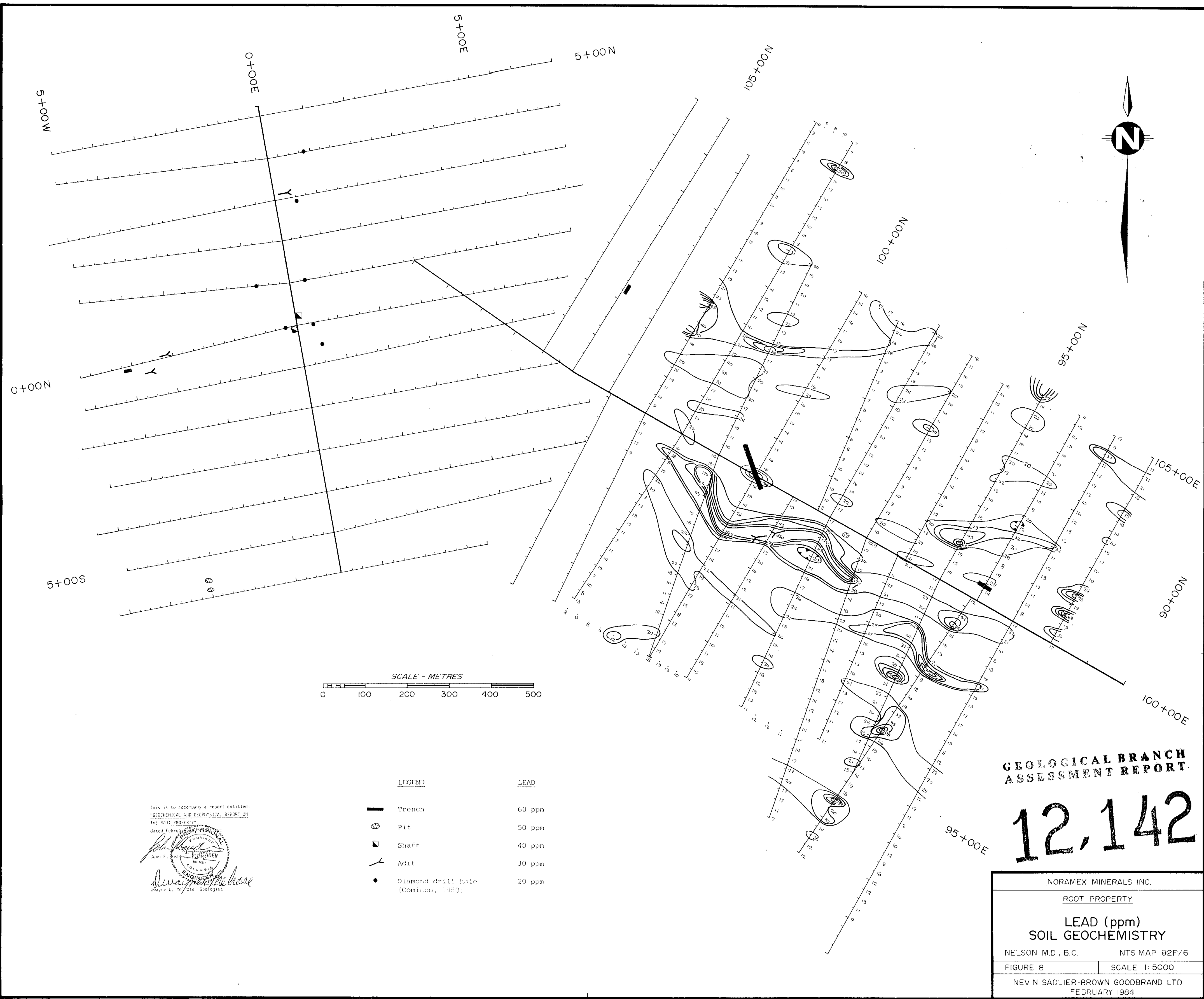
LEGEND		COPPER	
	Trenches	120 ppm	
	Pit	100 ppm	
	Shaft	80 ppm	
	Adit	60 ppm	
	Diamond drill hole (Cominco, 1980)	40 ppm	
		20 ppm	

This is to accompany a report entitled:
 GEOLOGICAL AND GEOCHEMICAL REPORT ON
 THE ROOT PROPERTY
 DISTRICT OF YUKON
 TERRITORY OF CANADA
 PREPARED BY
 D. W. BEAVER
 PROFESSIONAL ENGINEER
 D. W. BEAVER
 Geologist

GEOLOGICAL BRANCH
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12,142

NORAMEX MINERALS INC.
 ROOT PROPERTY
 COPPER (ppm)
 SOIL GEOCHEMISTRY
 NELSON M.D., BC. NTS MAP 82F/6
 FIGURE 7 SCALE 1:5000
 NEVIN SADLER-BROWN GOODBRAND LTD.
 FEBRUARY 1984



SCALE - METRES
 0 100 200 300 400 500

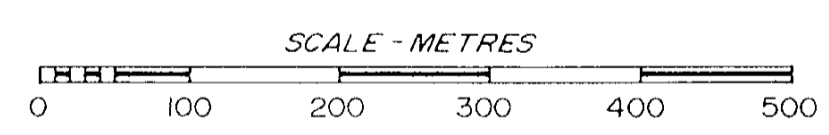
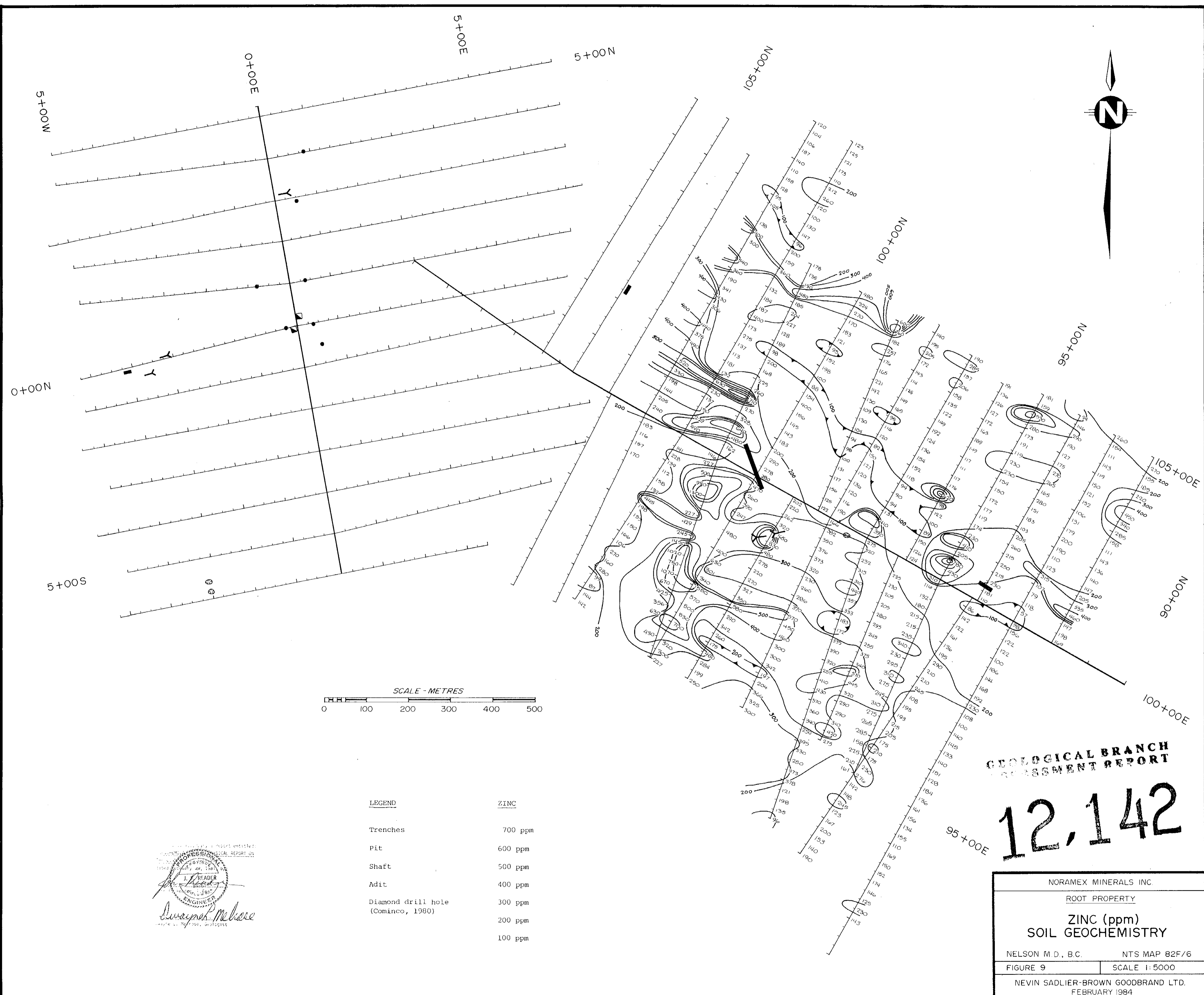
LEGEND	LEAD	
—	Trench	60 ppm
⊙	Pit	50 ppm
▣	Shaft	40 ppm
∧	Adit	30 ppm
•	Diamond drill hole (Cominco, 1980)	20 ppm

This is to accompany a report entitled:
 "GEOCHEMICAL AND GEOPHYSICAL REPORT ON
 THE ROOT PROPERTY"
 dated February 1984
 J. F. READER
 Geologist
 Jayne L. McRose, Geologist

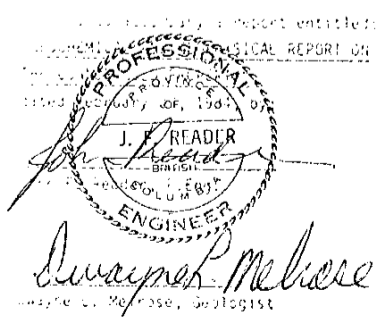
**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

12,142

NORAMEX MINERALS INC.	
ROOT PROPERTY	
LEAD (ppm) SOIL GEOCHEMISTRY	
NELSON M.D., B.C.	NTS MAP 82F/6
FIGURE 8	SCALE 1:5000
NEVIN SADLIER-BROWN GOODBRAND LTD. FEBRUARY 1984	



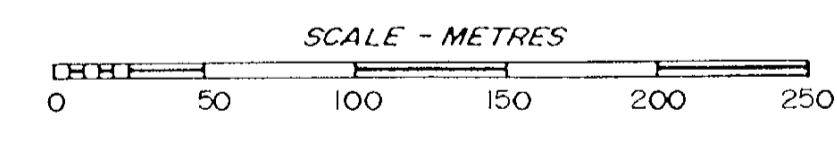
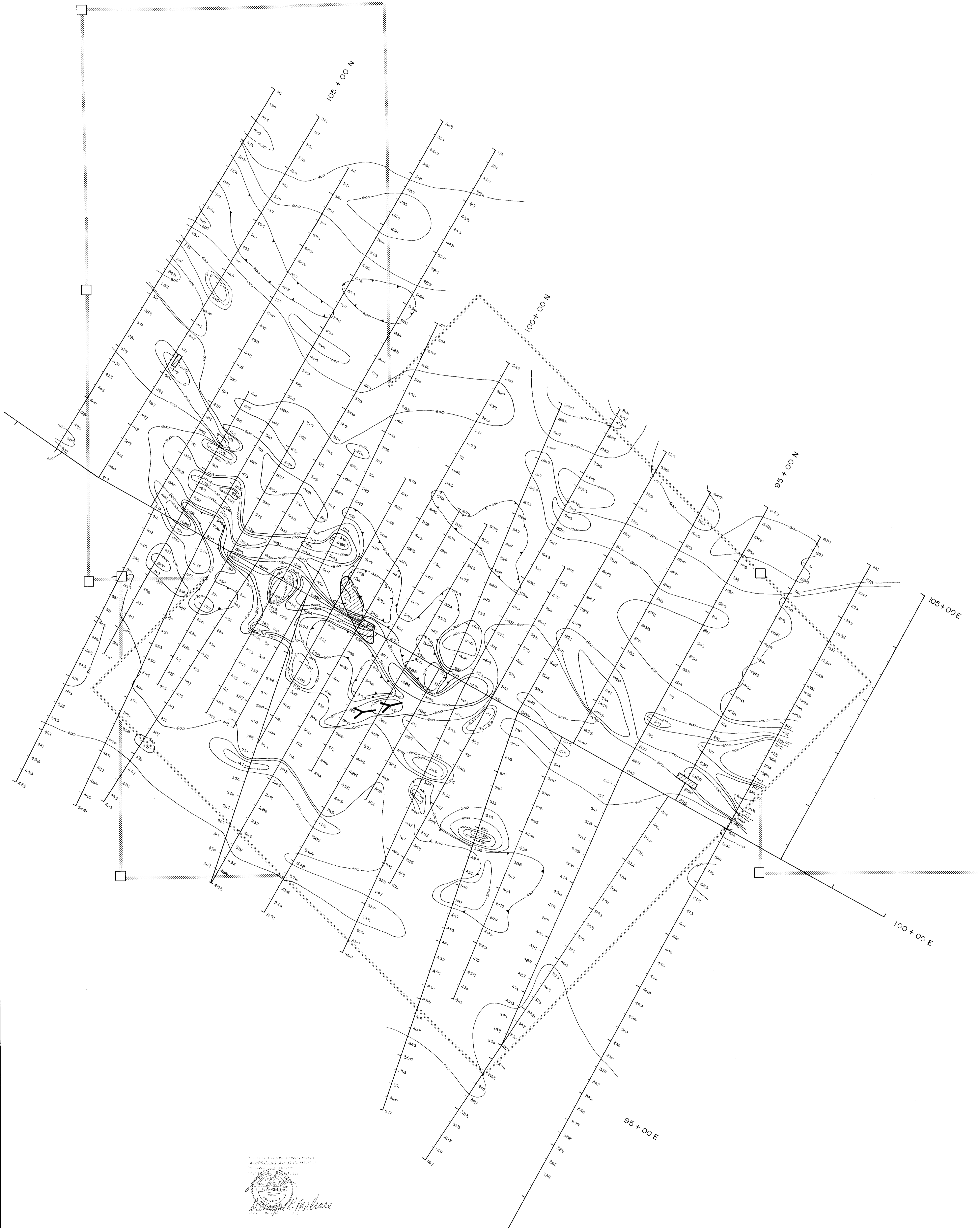
LEGEND	ZINC
Trenches	700 ppm
Pit	600 ppm
Shaft	500 ppm
Adit	400 ppm
Diamond drill hole (Cominco, 1980)	300 ppm
	200 ppm
	100 ppm



GEOLOGICAL BRANCH
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NORAMEX MINERALS INC.	
ROOT PROPERTY	
ZINC (ppm) SOIL GEOCHEMISTRY	
NELSON M.D., B.C.	NTS MAP 82F/6
FIGURE 9	SCALE 1:5000
NEVIN SADLIER-BROWN GOODBRAND LTD. FEBRUARY 1984	



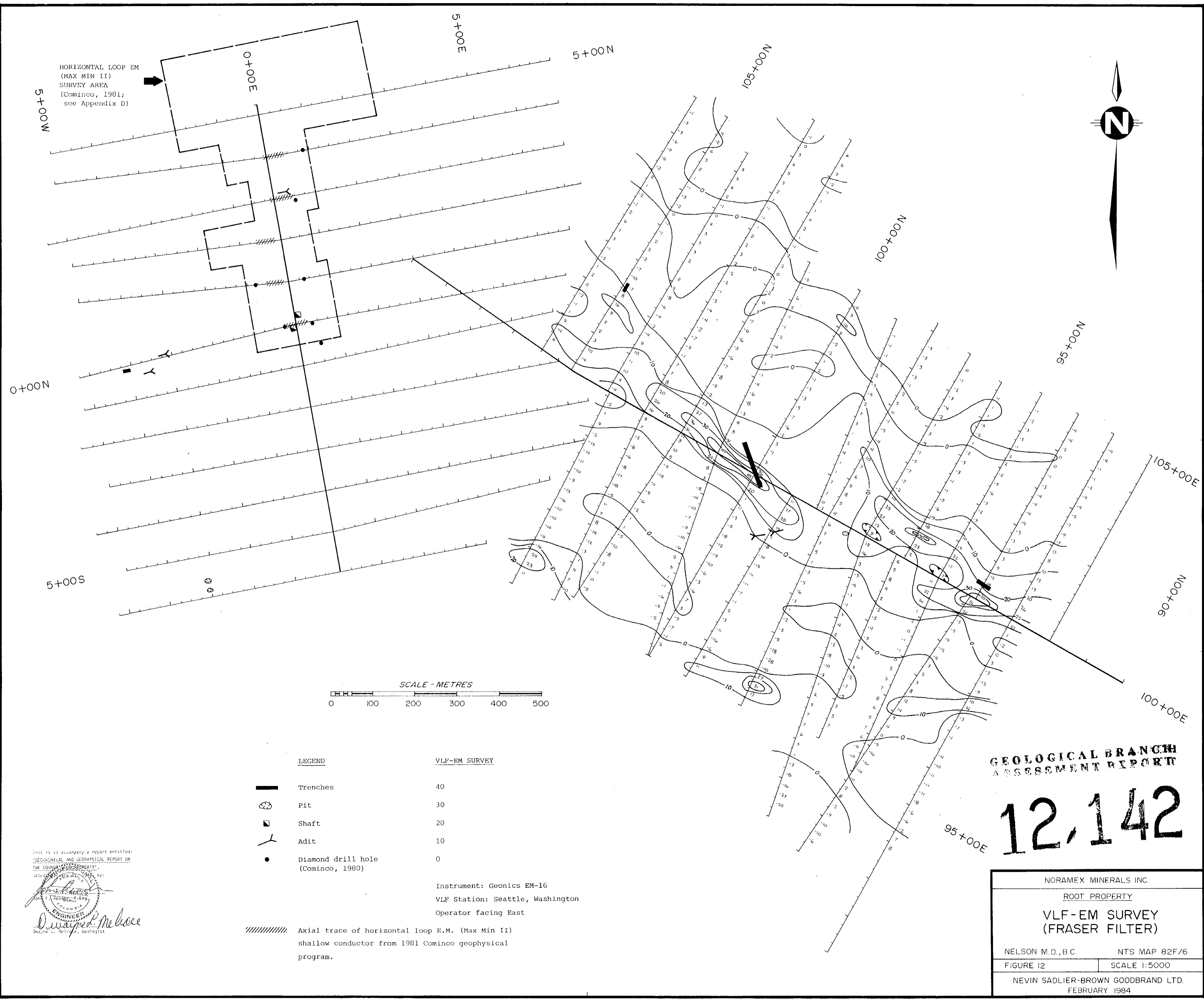
LEGEND	
—	Trenches
⊙	Pit
⊠	Shaft
⊕	Adit
•	Diamond drill hole (Cominco, 1980)
	2000 gammas
	1500 gammas
	1000 gammas
	800 gammas
	600 gammas
	400 gammas
	200 gammas
	< 200 gammas
	(0 = 57000 gammas)

GEOLOGICAL BRANCH
ASSESSMENT REPORT

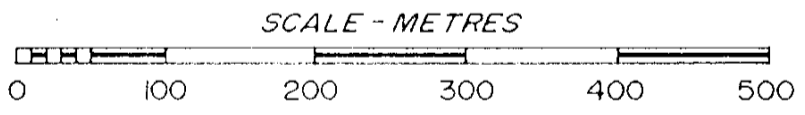
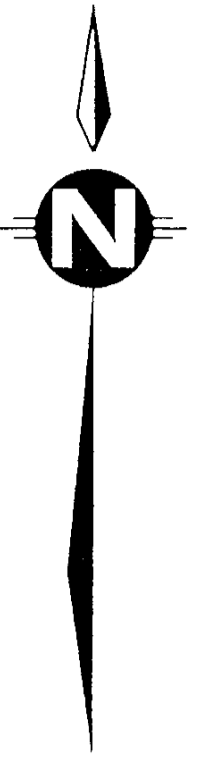
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NORAMEX MINERALS INC.	
ROOT PROPERTY	
MAGNETOMETER SURVEY	
NELSON M.D., B.C.	NTS MAP 82 F/6
FIGURE 10	SCALE 1:2500
NEVIN SADLER-BROWN GOODBRAND LTD.	
FEBRUARY 1984	

Neil McPherson
 Professional Engineer
 No. 12345, B.C. Reg. Prof. Eng. 1980



HORIZONTAL LOOP EM
(MAX MIN II)
SURVEY AREA
(Cominco, 1981;
see Appendix D)



LEGEND		VLF-EM SURVEY
	Trenches	40
	Pit	30
	Shaft	20
	Adit	10
	Diamond drill hole (Cominco, 1980)	0
	Axial trace of horizontal loop E.M. (Max Min II) shallow conductor from 1981 Cominco geophysical program.	

Instrument: Geonics EM-16
VLF Station: Seattle, Washington
Operator facing East

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

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This is to accompany a report entitled:
"GEOCHEMICAL AND GEOPHYSICAL REPORT ON
THE COMINCO PROPERTY"
dated [unclear] by:
David P. Melrose
ENGINEER
Geological Geologist

NORAMEX MINERALS INC.	
ROOT PROPERTY	
VLF-EM SURVEY (FRASER FILTER)	
NELSON M.D., B.C.	NTS MAP 82F/6
FIGURE 12	SCALE 1:5000
NEVIN SADLER-BROWN GOODBRAND LTD. FEBRUARY 1984	