

A GEOLOGICAL, GEOPHYSICAL AND GEOCHEMICAL REPORT

OF THE

LM CLAIMS, NICOLA MINING DIVISION (92H / 15E)

49°50' 120°37.5'

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Lornex Mining Corporation Ltd.  
P.O. Box 10335, Pacific Centre  
1650 - 609 Granville Street  
Vancouver, B. C.  
V7Y 1G5

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

By:

L. D. Nicoll, M.Sc.

Supervised by:

P. A. Christopher, P.Eng, PhD.

Peter Christopher & Assoc. Inc.  
3707 West 34th Avenue  
Vancouver, B. C.  
V6N 2K9

11,197

November, 1982



*Peter A. Christopher*

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## Introduction

The LM claims, staked for Lornex Mining Corporation Ltd. in April, 1982 cover an area of Nicola volcanic rocks that are dissected by the Allison Fault Zone (Preto, 1979). The claim area has only sparse outcroppings and a single minor copper showing. Geological, geophysical and soil geochemical surveys were undertaken with the objective of defining an anomaly worthy of drill testing.

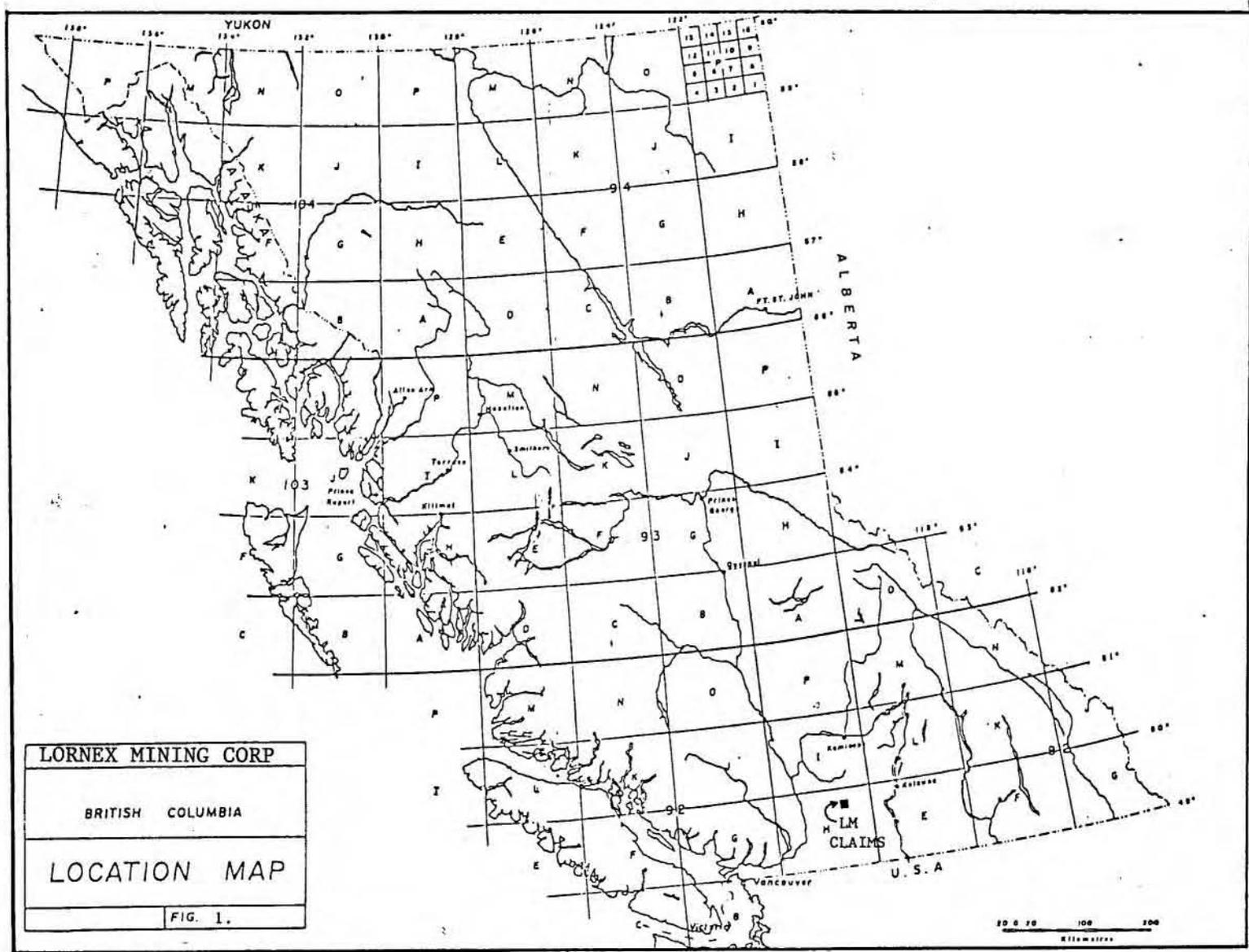
The LM 1 and LM 2 claims (Table 1) comprising 40 units (1,000 hectares) are located in the Intermontane Tectonic Belt and Thompson Plateau physiographic province of the southern Canadian Cordillera. The claims straddle Highway No. 5 from 10 to 14 kilometres south of Aspen Grove, British Columbia (Figures 1 and 2), and cover the valley of Otter Creek. The LM 1 claim extends 5 units west and 4 units north and the LM 2 claim extends 5 units west and 4 units south from a common legal corner post located just east of Highway No. 5 about 12 kilometres south of Aspen Grove. Elevations on the claims range from about 960 metres in the Otter Creek valley to about 1,189 metres in the northeastern part of the claims. The claim area is generally grass covered rolling hills with the exception of the incised Otter Creek valley. Logging of pine and fir has occurred in the eastern part of the claim area, but the present land use is mainly cattle range.

Access is via Highway No. 5 and the Coalmont Road from Merritt or Princeton and numerous secondary logging or ranch roads.

TABLE 1

### CLAIM DATA

| <u>Name</u> | <u>Units</u> | <u>Record No.</u> | <u>Record Date</u> | <u>Expiry Date</u> |
|-------------|--------------|-------------------|--------------------|--------------------|
| LM 1        | 20           | 1248(5)           | May 25, 1982       | May 25, 1983       |
| LM 2        | 20           | 1249(5)           | May 25, 1982       | May 25, 1983       |



|                    |
|--------------------|
| LORNEX MINING CORP |
| BRITISH COLUMBIA   |
| LOCATION MAP       |
| FIG. 1.            |

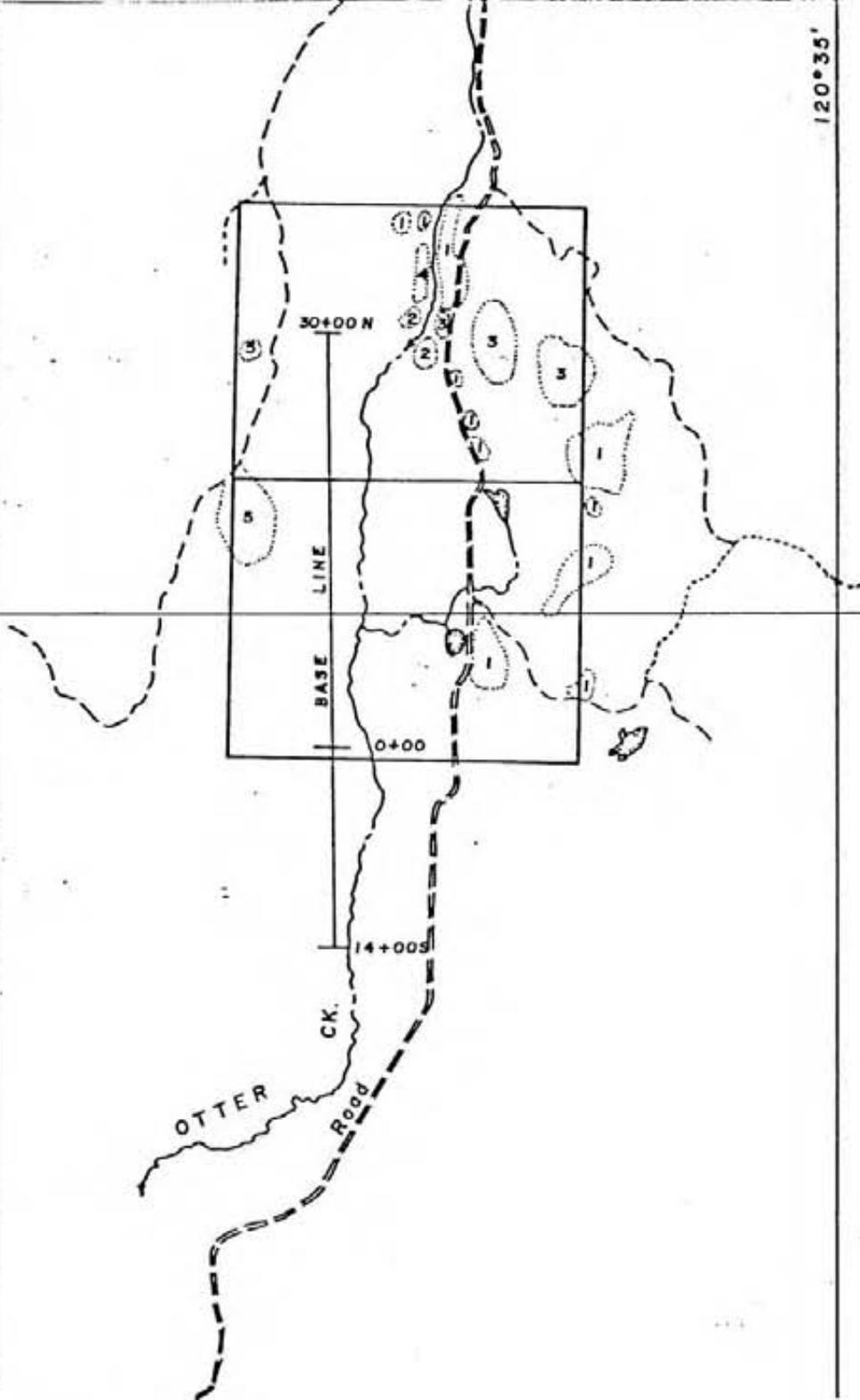
0 50 100 200  
Kilometres

120°40'

120°35'



49°50'



LEGEND

- 1 ANDESITE
- 2 ANDESITE / TUFF
- 3 QUARTZ DIORITE
- 4 BASALT
- 5 QUARTZ MONZONITE

|                         |                   |
|-------------------------|-------------------|
| LORNEX MINING CORP. LTD |                   |
| LM CLAIMS               |                   |
| GEOLOGICAL MAP          |                   |
| SCALE - 1 : 50,000      | DATE - June, 1982 |
| DRAWN BY - P.H.         | DATA - L.N.       |
| NTS - 92 H 15E          | MAP No. Fig. 2.   |

### Previous Work

Portions of the LM claims have been staked in the past as the LO, AXE, PC, MCC, MJ, Docado, Walt and BIM claims. An adit and several trenches are located on the west side of Otter Creek just south of the northern LM 1 boundary. During the 1960's Tormont Mines Ltd. held much of the ground.

### Summary of Work

From May 18 to 31, 1982 and June 1 to 3, 1982 a grid was established, 129 soil samples collected, VLF-EM and proton magnetometer surveys completed and the claims were geologically mapped. The crew consisted of Mr. Greg Dawson, assistant and Mr. Louie Fasullo (May 25 - 30), assistant under the field supervision of L.D. Nicoll, geologist, and general supervision of P.A. Christopher.

The baseline extends for 3,000 metres on a bearing of  $356^{\circ}$  from the southern boundary of the LM 2 claim north to about midway in the LM 1 claim. Perpendicular crosslines of various lengths (totalling about 16 kilometres) are spaced every 200 metres with stations every 25 metres on the baseline and crosslines.

### Regional Geology

The geology of the LM claims is shown on GSC Map 888A by Rice (1960) and on Figure 1 from MEMPR Bulletin 69 by V.A. Preto (1979). The property is mainly underlain by Upper Triassic volcanic rocks and associated sediments of the Nicola Group. The rock units generally strike north to north-northwest and dip easterly. Coeval intrusive rocks that range from diorite to monzonite in composition also underlie the property.

The area is dissected by several fault zones with the major Allison Fault zone occurring in the Otter Creek valley near the eastern boundary of the property and several northeast splays from this zone.

## Property Geology

The extrusive rocks mapped on the LM claims have compositions ranging from basaltic to andesitic. Figure 2 is the geology map of the entire property and figure 3 is the geology map of the grid areas.

### Unit 1: Andesite

The predominant igneous rocks on the claim, the andesites range in colour from light or medium grey to a dark purplish grey or dark green ground mass. Phenocrysts of plagioclase, pyroxene and hornblende are abundant and many samples have chloritic alteration of the mafic minerals. About half of the samples examined were slightly to moderately magnetic. Minor amounts of fine grained disseminated pyrite is present in some samples.

The ground mass of some andesites was fine grained in size and this rock type could probably be called a microdiorite.

### Unit 2: Andesitic Tuff

Another andesite variety is a light to medium grey tuff which forms a resistant ridge cut by Otter Creek at the north end of the grid. East of this in a road cut on Highway No. 5 is a mixture of flows and breccias with an interlayered black, partially calcareous argillite which is about 25-30 metres thick and has an orientation of  $050^{\circ}/43^{\circ}\text{SE}$ . Andesite breccia is also located on the east side of Highway No. 5 on the LM 2 claim.

An outcrop along Highway No. 5 about 400 metres south of the northern LM 1 claim boundary consists mostly of black to greenish coloured andesite with some breccias and lahars. Two parallel 7 cm wide gouge-filled shear zones cut the andesite and are oriented  $025^{\circ}/40^{\circ}\text{SE}$ .

The intrusive rocks underlying the property are quartz diorites and quartz monzonites.

### Unit 3: Quartz Diorite

Fresh surfaces display black mafic minerals and greyish white quartz and feldspar although most samples have a greenish tint due to chloritic alteration of the mafic minerals. The mafic minerals are pyroxene, amphibole and some biotite. Unoxidized samples may be slightly to moderately magnetic. On the east side of Otter Creek near the north end of the grid, the diorite contains epidote-filled fractures and occasional slickensides are present.

### Unit 4: Basalt

Greenish black in colour with an aphanitic to very fine grained ground mass with phenocrysts of olivine and pyroxene. One sample collected along the west bank of Otter Creek at the north end of the LM 1 claim has phenocrysts of pyroxene which measure up to 5 mm in length. The basalts are non-vesicular.

### Unit 5: Quartz Monzonite

These are a black and white speckled, medium grained, equigranular rock with abundant quartz, feldspar, pyroxene, amphibole and biotite. This rock varies from non-magnetic to moderately magnetic. Weathered surfaces are reddish brown or black.

### Mineralization

The only mineralization located on the LM claims is west of Otter Creek where the north claim boundary of the LM 1 claim crosses the creek. An adit extends for about three metres into the bank exposing a 4-5 cm fracture filled with brecciated andesite country rock containing abundant malachite staining. The fracture zone was traced along the surface for about 12 metres and has a strike of  $355^{\circ}$ , dipping  $53^{\circ}$ W. A chip samples (No. 20876) across 5 cm of the mineralized fracture zone assayed 8.3% copper, 2 ppm molybdenum and 22.5 ppm silver. Several pits were located within 150 metres to the south of the adit but no mineralization was seen in any of these pits.

## Geophysics

A magnetometer survey using a GeoMetric model G-846 UniMag II Proton Magnetometer was conducted at 25 metre intervals over the baseline and along all crosslines. Readings were corrected for time variation and reduced by 56,000 gammas to compensate for the earth's known magnetic field. As well, a magnetometer was run on the west side of Otter Creek from 16+00 N to 0+00. Magnetometer results indicate a magnetic low with values generally between 56,900 and 57,100 gammas along Otter Creek. A magnetic high exists on the western part of the grid between 8+00 N and 18+00 N and west of 300W with values up to 58,000 gammas. This would correlate with the high of 57,600 gammas shown on GSC Aeromagnetic Map 8532G. A moderate high with readings of about 57,400 gammas exists at the east end of crosslines 28+00N and 30+00N. Figure 4 is the magnetometer survey map.

A reconnaissance VLF-EM survey, using a Geonics EM-16 instrument was conducted along grid lines at 25 metre intervals transmitting stations NLK Seattle (24.8 KHz) and NPM Hawaii (23.4 KHz). The EM survey was used as a prospecting tool with the intention of conducting follow-up geophysical and geochemical surveys over strongly anomalous areas. Since no anomalies were detected, follow-up did not occur and the EM-16 data was not plotted.

## Geochemistry

One hundred and twenty-nine (129) soil samples were collected from the B soil horizon at 50 metre intervals at the break-in-slope on both sides of Otter Creek from 0+00 to 30+00N. Soil samples were analyzed for Mo, Cu, Pb, Zn, Ag and Au by Vangeochem Lab. Ltd. of North Vancouver, B. C. Geochemical values are plotted on Figure 5 and the certificates of geochemical analyses are included in Appendix III at the end of this report.

Samples were prepared and analyzed by Vangeochem Lab. Ltd. in North Vancouver, B. C. Soil samples were dried, sieved to -80 mesh, split to obtain 1 one gram sample and digested for two hours in a mixture of 85% perchloric ( $\text{HClO}_4$ ) and 15%  $\text{HNO}_3$  acid with element analyses by atomic absorption. Silver values are background corrected.

## Results and Interpretation

Results for Mo, Cu, Pb, Zn, Ag and Au were plotted on a 1:5,000 scale map (Figure 5) for comparison with the grid geology (Figure 3) and magnetic (Figure 4) maps. Background, slightly anomalous and anomalous ranges were based on other surveys conducted over similar terrain.

### Molybdenum

Molybdenum values range from below the detection limit of 1 ppm to a single, slightly anomalous value of 5 ppm at 12+00N. The values obtained are considered to be typical of Nicola terrain and do not appear to reflect a bedrock molybdenum concentration.

### Copper

Copper values range from 11 ppm to 336 ppm at 16+00N with values between 90-150 ppm considered weakly anomalous and over 150 considered anomalous. A total of 15 weakly anomalous samples were detected and four anomalous samples were detected. Anomalous zones appear to cross Otter Creek from 5+00 to 7+50N; 16+00N to 18+00N and at 29+00N.

### Lead

Lead values vary from 8 ppm to 30 ppm and are all considered to be within the background range.

### Zinc

Zinc values vary from 9 ppm to 340 ppm with values between 100 ppm to 200 ppm considered weakly anomalous and values over 200 ppm considered anomalous. A total of 21 weakly anomalous and three anomalous values were detected. Anomalous zinc values occur with anomalous copper values in the zone between 5+00N and 7+50N.

### Silver

Silver values vary from below the 0.1 ppm detection limit to 1.2 ppm. Only four weakly anomalous values between 0.5 and 1.2 ppm were detected.

Gold

Gold values vary from below the detection limit of 10 ppb to a single value of 50 ppb. No anomalous values over 50 ppb were detected.

Summary and Recommendations

Exploration has been conducted along about four kilometres of the Allison Fault zone where it cuts highly prospective Nicola Group rocks. A minor copper showing has been located and several soil samples with anomalous copper have been detected. The EM-16 and magnetic surveys did not produce coincident anomalies but these surveys may be ineffective because of overburden.

Reconnaissance I.P. should be run to detect conductive, mineralized zones at 50 to 100 metre depths. One line should parallel the west bank of Otter Creek with cross lines at 200 metre intervals. About 25 kilometres of I.P. will be required for an initial test of the LM claims.



*Peter A. Christopher*

References

Preto, V.A., 1979. Geology of the Nicola Group between Merritt and Princeton. Bulletin 69, B. C. Ministry of Energy, Mines and Petroleum Resources.

Rice, H.M.A., 1960. Geology and Mineral Deposits of the Princeton Map-Area, British Columbia. Geological Survey, Canada, Mem. 243.

STATEMENT OF QUALIFICATIONS

The field work for this report was supervised by Peter A. Christopher whose qualifications are outlined below.

Peter A. Christopher, P. Eng., Ph.D., Exploration Manager for Peter A. Christopher and Assoc. Inc., Vancouver, British Columbia.

Completed his B.Sc. at the State University of New York at Fredonia in 1966, M.A. at Dartmouth College in 1968 and Ph.D. at the University of British Columbia in 1973. He has worked for several mining companies on porphyry, massive sulphide, uranium and gold deposits in the western United States and Canada. He served as exploration geologist for Newmont Mining Corporation, in 1973 and 1974; as project geologist with the British Columbia Ministry of Energy, Mines and Petroleum Resources from 1974 to 1980; and as senior geologist for Utah Mines from June 1980 to July 1981. In July, 1980 he assumed his present position.



*Peter A. Christopher*

STATEMENT OF QUALIFICATIONS

The field work for this report was conducted by Larry D. Nicoll whose qualifications are outlined below.

Larry D. Nicoll, M.Sc., Geologist.

Completed his B.Sc. (Geology) in 1972 and M.Sc.(Geology) in 1974 at the University of Calgary. From 1974 to 1978 he worked toward a Ph.D. at the University of Utah and held temporary jobs with several companies and consultants. He worked mainly as a consulting geologist between June 1978 and August 1982 with the exception of the period August 1979 to May 1980 which was spent as a project manager for PNC Exploration (Canada) Co. Ltd. He worked on various contracts for Peter A. Christopher and Assoc. Inc. from January 1982 to August 1982.

STATEMENT OF COSTSPersonnel

|  |           |
|--|-----------|
| Project Supervision: P. Christopher<br>May 28, Nov 1-4 (5 days x \$230/day)      | \$ 1,150. |
| Prospector: Charles Kowall<br>May 28 (1 day x \$120/day)                         | 120.      |
| Geologist: Larry Nicoll<br>May 18-31 and June 1-3 (17 days x \$130/day)          | 2,210.    |
| Geological Assistant: Greg Dawson<br>May 18-31 and June 1-3 (17 days x \$80/day) | 1,360.    |
| Helper: Louie Fasullo<br>May 25-30 (6 days x \$70/day)                           | 420.      |

Truck Rental

|  |      |
|--|------|
| Bronco (17 days x \$40/day) - \$680.       |      |
| Datsun 4x4 (1 day x \$40/day) - <u>40.</u> | 720. |

|   |        |
|---|--------|
| <u>Camp Costs &amp; Board:</u> 42 man days x \$40/day | 1,680. |
|---|--------|

|   |      |
|---|------|
| <u>Instrument Rental:</u> Proton Magnetometer ( $\frac{1}{2}$ month x \$400/mo) | 200. |
| : EM-16 ( $\frac{1}{2}$ month x \$500/mo)                                       | 250. |

|                                  |      |
|----------------------------------|------|
| <u>Materials @ Cost Plus 10%</u> | 130. |
|----------------------------------|------|

|  |      |
|--|------|
| <u>Drafting, Typing and Reproduction</u> | 340. |
|--|------|

|   |     |
|---|-----|
| <u>Miscellaneous:</u> Phone, Postage, Shipping etc. | 25. |
|---|-----|

|                             |        |
|-----------------------------|--------|
| <u>Geochemical Analyses</u> | 1,290. |
|-----------------------------|--------|

|             |           |
|-------------|-----------|
| Total Costs | \$ 9,895. |
|-------------|-----------|



*Peter A. Christopher*

APPENDIX III

Certificates of Geochemical Analyses



VANGEOCHEM LAB LTD.  
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## Certificate of Geochemical Analyses

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Lornex Mining Corporation Ltd.  
P.O. Box 10335, Stock Exchange Tower  
Suite 1650, 609 Granville St.  
Attention: Vancouver, B.C. V7Y 1G5  
Mr. D. Budinski

Report No: 82-53-002 Page 1 of 4  
Samples Arrived: May 26, 1982  
Report Completed: June 4, 1982  
For Project: LM 5403-61  
Analyst: E.T. & VGC Staff  
Invoice: 6733 Job # 82-029

| Sample Marking | Mo<br>ppm | Cu<br>ppm | Pb<br>ppm | Zn<br>ppm | Ag<br>ppm | Au<br>ppb |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| O+ 00N 345E    | 2         | 41        | 16        | 100       | 1.2       | 30        |
| O+ 50N ✓       | 2         | 37        | 15        | 81        | 0.3       | 10        |
| 100N ✓         | 3         | 84        | 23        | 129       | 0.4       | 20        |
| 150N 345E      | 2         | 36        | 17        | 90        | 0.4       | 20        |
| 200N 290E      | 2         | 81        | 19        | 126       | 0.2       | 10        |
| 250N ✓         | 2         | 72        | 21        | 91        | nd        | nd        |
| 300N ✓         | 1         | 83        | 17        | 104       | 0.5       | 10        |
| 350N 290E      | 2         | 74        | 18        | 106       | 0.2       | 10        |
| 400N 155E      | 1         | 73        | 13        | 84        | 0.2       | 10        |
| 450N ✓         | 1         | 90        | 9         | 73        | nd        | 50 ✓      |
| 500N ✓         | 1         | 156       | 18        | 119       | 0.2       | nd        |
| 550N 155E      | 2         | 140       | 16        | 78        | 0.3       | 30        |
| 600N 140E      | 2         | 73        | 29        | 69        | 0.2       | 40        |
| 650N ✓         | 1         | 57        | 21        | 65        | 0.2       | nd        |
| 700N ✓         | 2         | 48        | 21        | 95        | 0.2       | 20        |
| 750N 140E      | 2         | 94        | 18        | 63        | 0.2       | nd        |
| 800N 180E      | 1         | 25        | 14        | 40        | 0.2       | 20        |
| 850N ✓         | 1         | 25        | 16        | 44        | nd        | 10        |
| 900N ✓         | 2         | 18        | 14        | 49        | nd        | 20        |
| 950N 180E      | 1         | 12        | 9         | 74        | 0.1       | nd        |
| 1000N 250E     | 3         | 31        | 11        | 66        | 0.1       | 30        |
| 1050N 245E     | 4         | 28        | 16        | 28        | nd        | 20        |
| 1100N ✓        | 3         | 67        | 14        | 88        | nd        | 20        |
| 1150N 245E     | 2         | 61        | 22        | 69        | 0.3       | 10        |
| 1200N 240E     | 3         | 56        | 18        | 80        | 0.4       | nd        |
| 1250N ✓        | 2         | 50        | 14        | 61        | 0.2       | 10        |
| 1300N ✓        | 1         | 45        | 19        | 39        | 0.2       | 10        |
| 1350N 240E     | 1         | 93        | 19        | 53        | 0.1       | 30        |
| 1400N 244E     | 1         | 58        | 16        | 96        | nd        | 30        |
| 1450N ✓        | 1         | 33        | 24        | 68        | nd        | 30        |
| 1500N ✓        | 1         | 40        | 20        | 59        | 0.1       | 10        |
| 1550N 244E     | 1         | 98        | 25        | 75        | 0.3       | 20        |
| 1600N 250E     | 2         | 73        | 21        | 70        | 0.1       | 10        |
| 1640N 280E     | 2         | 70        | 20        | 75        | 0.5       | 20        |
| 1650N 280E     | 2         | 46        | 18        | 71        | 0.7       | 40        |
| 1700N ✓        | 1         | 89        | 19        | 80        | 0.3       | 30        |
| 1750N ✓        | 2         | 104       | 18        | 70        | 0.2       | 20        |
| 1800N 280E     | 2         | 190       | 15        | 75        | 0.2       | 30        |
| 1850N 320E     | 1         | 75        | 13        | 76        | 0.2       | 10        |

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REMARKS: One copy sent to Mr. L.D. Nicoll  
Invoice sent to Mr. Peter Christopher  
Ag background has been corrected.

Signed

% Mo x 1.6683 = % MoS<sub>2</sub>      1 Troy oz./ton = 34.28 ppm      1 ppm = 0.0001%      nd = none detected      ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



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Report No: 82-53-002

Page 2 of 4

Samples Arrived:

Report Completed:

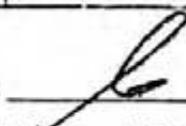
For Project:

Analyst:

| Sample Marking | Mo<br>ppm | Cu<br>ppm | Pb<br>ppm | Zn<br>ppm | Ag<br>ppm | Au<br>ppb |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1900N 320E     | 1         | 74        | 16        | 72        | 0.1       | 10        |
| 1950N 320E     | 1         | 73        | 18        | 74        | 0.1       | nd        |
| 2000N 295E     | 1         | 74        | 19        | 70        | 0.4       | 10        |
| 2050N 320E     | 1         | 59        | 16        | 95        | nd        | 20        |
| 2100N 320E     | 1         | 71        | 20        | 95        | nd        | nd        |
| 2150N 320E     | 2         | 37        | 23        | 100       | nd        | 20        |
| 2200N 320E     | 1         | 39        | 15        | 96        | 0.4       | 20        |
| 2150N 321E ✓   | 1         | 41        | 17        | 60        | 0.2       | 10        |
| 2200N 321E ✓   | nd        | 36        | 9         | 41        | 0.3       | 20        |
| 2250N 280E     | nd        | 52        | 8         | 27        | nd        | 20        |
| 2300N ✓        | 2         | 100       | 8         | 16        | nd        | 10        |
| 2350N ✓        | 1         | 34        | 11        | 89        | nd        | 10        |
| 2400N ✓        | 1         | 42        | 12        | 52        | nd        | 20        |
| 2450N ✓        | 1         | 39        | 12        | 57        | 0.1       | nd        |
| 2500N ✓        | 2         | 45        | 17        | 96        | nd        | 10        |
| 2550N 280E     | 1         | 60        | 18        | 84        | nd        | 10        |
| 2600N 420E     | 2         | 46        | 15        | 55        | nd        | 20        |
| 2650N ✓        | 1         | 45        | 9         | 65        | 0.1       | 10        |
| 2700N ✓        | 1         | 25        | 13        | 48        | nd        | 10        |
| 2750N ✓        | 1         | 55        | 12        | 47        | 0.1       | 20        |
| 2800N ✓        | 2         | 70        | 13        | 47        | 0.6       | 20        |
| 2850N 420E     | 1         | 49        | 15        | 44        | 0.2       | 20        |
| 2900N 460E     | 2         | 123       | 14        | 78        | 0.1       | 10        |
| 1950N 470E     | nd        | 45        | 16        | 97        | nd        | 10        |
| 3000N 475E     | 2         | 47        | 16        | 56        | nd        | 10        |
| 2+ 00S         | 2         | 29        | 13        | 166       | nd        | 20        |
| 1+ 50S         | 1         | 46        | 17        | 121       | nd        | 20        |
| 1+ 00S         | 1         | 65        | 15        | 340       | 0.1       | nd        |
| 0+ 50S         | 1         | 34        | 13        | 152       | 0.1       | 20        |
| 00N            | 1         | 16        | 12        | 124       | nd        | 20        |
| 0+ 50N         | 1         | 34        | 9         | 95        | 0.3       | 20        |
| 1+ 00N         | 1         | 18        | 11        | 98        | nd        | 10        |
| 1+ 50N         | 2         | 40        | 24        | 120       | 0.1       | 10        |
| 2+ 00N         | 2         | 40        | 15        | 97        | nd        | 10        |
| 2+ 50N         | 2         | 29        | 18        | 61        | nd        | nd        |
| 3+ 00N         | 2         | 51        | 19        | 70        | 0.1       | 10        |
| 3+ 50N         | 2         | 74        | 16        | 105       | 0.2       | 20        |
| 4+ 00N         | 2         | 50        | 12        | 76        | 0.1       | 30        |
| 4+ 50N         | 2         | 51        | 17        | 97        | 0.1       | 30        |

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% Mo x 1.6683 = % MoS<sub>2</sub>

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



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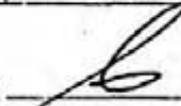
Samples Arrived:  
Report Completed:  
For Project:  
Analyst:

Attention:

| Sample Marking | Mo<br>ppm | Cu<br>ppm | Pb<br>ppm | Zn<br>ppm | Ag<br>ppm | Au<br>ppb |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 5 + 00 N       | 2         | 65        | 9         | 68        | 0.2       | 30        |
| 5 + 50 N       | 2         | 116       | 11        | 75        | 0.1       | 30        |
| 6 + 00 N       | nd        | 68        | 11        | 106       | nd        | 30        |
| 6 + 50 N       | 1         | 139       | 12        | 144       | 0.2       | 30        |
| 7 + 00 N       | 3         | 102       | 16        | 98        | 0.1       | 20        |
| 7 + 50 N       | 2         | 124       | 15        | 92        | 0.1       | 20        |
| 8 + 00         | 3         | 92        | 18        | 41        | nd        | 30        |
| 8 + 50         | 2         | 65        | 14        | 69        | 0.2       | 30        |
| 9 + 00         | 1         | 66        | 15        | 67        | 0.1       | 20        |
| 9 + 50         | 2         | 25        | 13        | 44        | nd        | 10        |
| 10 + 00        | 3         | 29        | 17        | 45        | 0.1       | 10        |
| 10 + 50        | 2         | 16        | 14        | 25        | nd        | 20        |
| 11 + 00        | 5         | 18        | 13        | 36        | 0.2       | 10        |
| 11 + 50        | 3         | 21        | 16        | 24        | nd        | 40        |
| 12 + 00        | nd        | 28        | 11        | 19        | nd        | 20        |
| 12 + 50        | 1         | 46        | 17        | 41        | nd        | 20        |
| 13 + 00        | 2         | 13        | 15        | 14        | nd        | 20        |
| 13 + 50        | 1         | 39        | 11        | 40        | nd        | 20        |
| 14 + 00        | 1         | 15        | 8         | 15        | nd        | 30        |
| 14 + 50        | 2         | 40        | 12        | 32        | nd        | 20        |
| 15 + 00        | 1         | 18        | 13        | 34        | 0.2       | 10        |
| 15 + 50        | 2         | 69        | 12        | 36        | 0.2       | 40        |
| 16 + 00        | 2         | 336 ✓     | 15        | 52        | nd        | 20        |
| 16 + 50        | 2         | 27        | 18        | 70        | nd        | 20        |
| 17 + 00        | 1         | 46        | 16        | 49        | nd        | 10        |
| 17 + 50        | 2         | 68        | 14        | 62        | 0.1       | 40        |
| 18 + 00        | 2         | 47        | 18        | 62        | nd        | 10        |
| 18 + 50        | 1         | 24        | 15        | 145       | 0.1       | 20        |
| 19 + 00        | nd        | 78        | 10        | 74        | 0.1       | 20        |
| 19 + 50        | 1         | 58        | 10        | 92        | nd        | 30        |
| 20 + 00        | 1         | 26        | 13        | 65        | nd        | 40        |
| 20 + 50        | 2         | 41        | 17        | 66        | nd        | 40        |
| 21 + 00        | 1         | 37        | 21        | 49        | nd        | 20        |
| 21 + 50        | 3         | 11        | 30        | 23        | nd        | nd        |
| 22 + 00        | 2         | 69        | 14        | 84        | nd        | 20        |
| 22 + 50        | 1         | 40        | 16        | 102       | nd        | 30        |
| 23 + 00        | 1         | 46        | 11        | 120       | nd        | 20        |
| 23 + 50        | 1         | 55        | 15        | 267       | nd        | 10        |
| 24 + 00 N      | 2         | 50        | 10        | 188       | nd        | 10        |

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REMARKS:

Signed: 

% Mo x 1.6683 = % MoS<sub>2</sub>      1 Troy oz./ton = 34.28 ppm      1 ppm = 0.0001%      nd = none detected      ppm = parts per million  
All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



VANGEOCHEM LAB LTD.  
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# Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

Lornex Mining Corporation Ltd.

Attention:

Report No: 82-53-002

Page 4 of 4

Samples Arrived:

Report Completed:

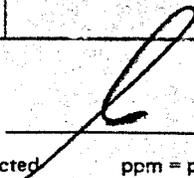
For Project:

Analyst:

| Sample Marking | Mo<br>ppm | Cu<br>ppm | Pb<br>ppm | Zn<br>ppm | Ag<br>ppm | Au<br>ppb |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 24 + 50 N      | 2         | 46        | 11        | 100       | 0.3       | 10        |
| 25 + 00        | 2         | 12        | 17        | 120       | 0.1       | 20        |
| 25 + 50        | 2         | 44        | 15        | 240       | 0.2       | 20        |
| 26 + 00        | 4         | 39        | 23        | 18        | nd        | 10        |
| 26 + 50        | 4         | 42        | 20        | 16        | nd        | 10        |
| 27 + 00        | nd        | 49        | 14        | 41        | 0.1       | nd        |
| 27 + 50        | 1         | 57        | 10        | 46        | 0.1       | 10        |
| 28 + 00        | 1         | 134       | 9         | 34        | nd        | 20        |
| 28 + 50        | 4         | 50        | 25        | 9         | nd        | 10        |
| 29 + 00        | nd        | 161       | 11        | 39        | 0.1       | nd        |
| 29 + 50        | 3         | 58        | 25        | 72        | nd        | 10        |
| 30 + 00 N      | 2         | 14        | 16        | 48        | nd        | 20        |
|                |           |           |           |           |           |           |
|                |           |           |           |           |           |           |
|                |           |           |           |           |           |           |
|                |           |           |           |           |           |           |
|                |           |           |           |           |           |           |
|                |           |           |           |           |           |           |
|                |           |           |           |           |           |           |

MASTER PRINTING LTD.

REMARKS:

Signed: 

% Mo x 1.6683 = % MoS<sub>2</sub>

1 Troy oz./ton = 34.28 ppm

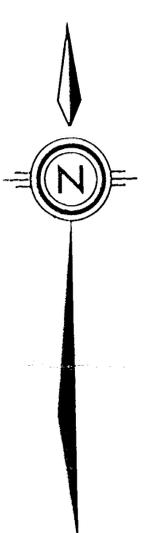
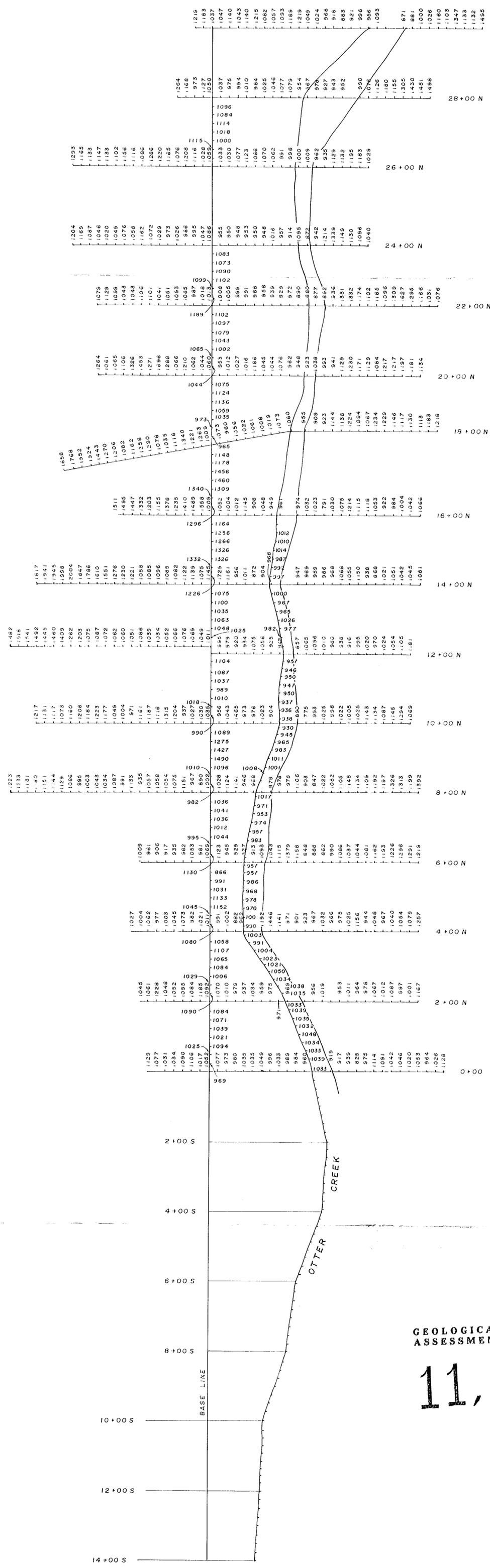
1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



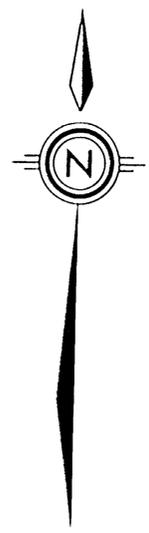
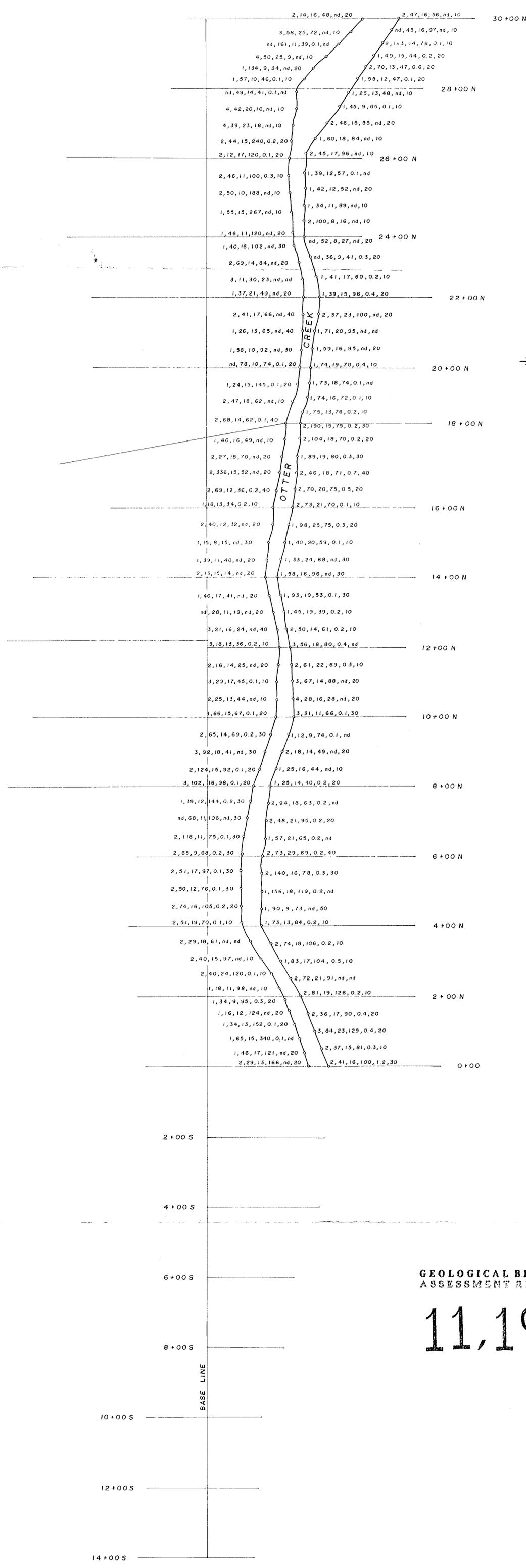


GEOLOGICAL BRANCH  
ASSESSMENT REPORT

11,197

NOTE - ALL READINGS IN GAMMAS.  
GRID BEARING 359°

|                        |                |
|------------------------|----------------|
| LORNEX MINING CORP LTD |                |
| LM CLAIMS              |                |
| MAGNETIC SURVEY        |                |
| SCALE - 1:5000         | DATE - OCT, 82 |
| DRAWN BY - PH          | DATA -         |
| NTS - 92H-15E          | MAP No. 4      |



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

# 11,197

2 . 41 . 18 . 100 . 1.2 . 30  
Mo (ppm), Cu (ppm), Pb (ppm), Zn (ppm), Ag (ppm), Au (ppb).

|                         |                |
|-------------------------|----------------|
| LORNEX MINING CORP. LTD |                |
| <b>LM CLAIMS</b>        |                |
| <b>GEOCHEMISTRY</b>     |                |
| Mo, Cu, Pb, Zn, Ag, Au  |                |
| SCALE - 1 : 5000        | DATE - Oct, 82 |
| DRAWN BY - P.H.         | DATA -         |
| NTS - 92H-15E           | MAP No 5       |