

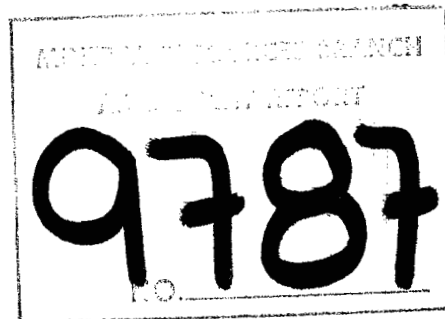
MAPS TO ACCOMPANY  
ASSESSMENT REPORT

LINECUTTING, SOIL GEOCHEMISTRY, VLF-EM, INDUCED POLARIZATION,  
MAGNETIC AND GEOLOGICAL SURVEYS AND DIAMOND DRILLING ON  
THE THOMLINSON NORTH AND SOUTH CLAIMS

OMINECA MINING DIVISION N.T.S. 93M/11W

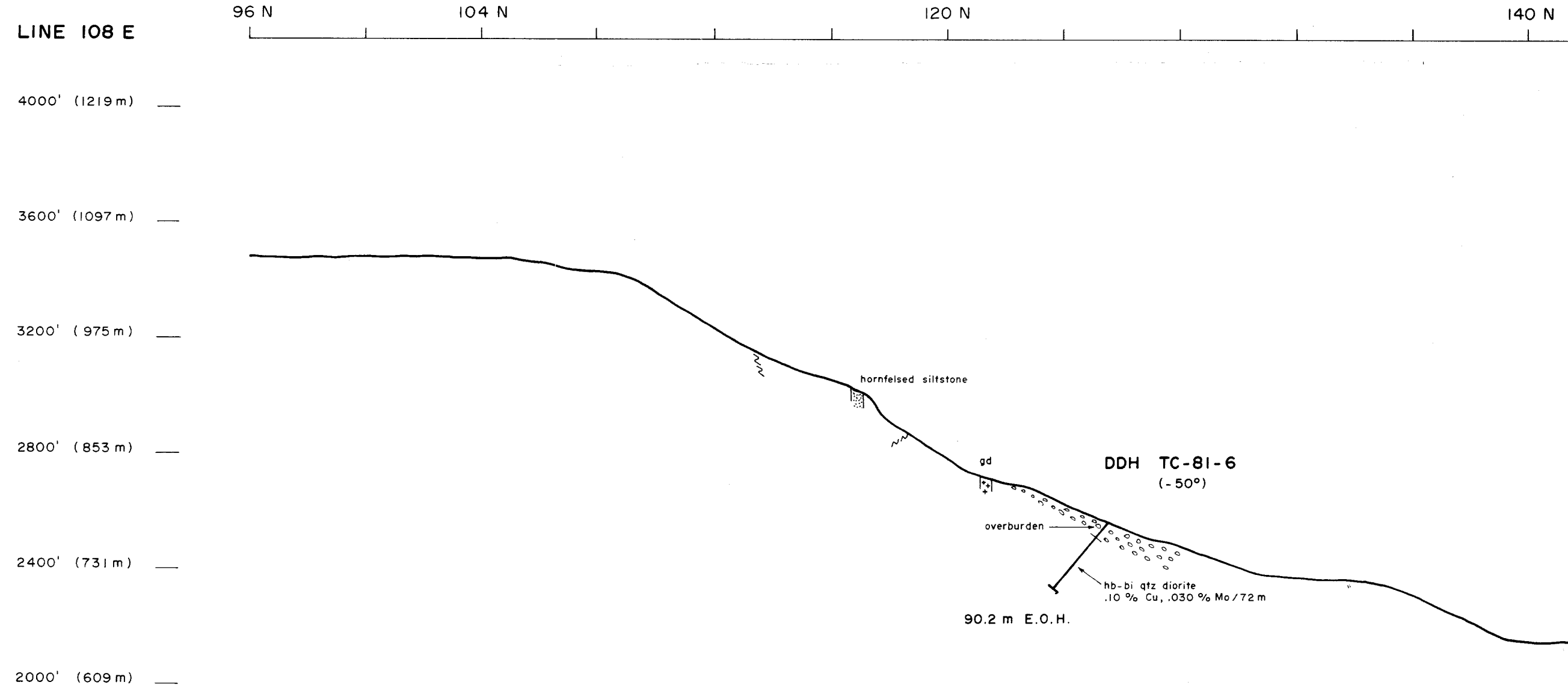
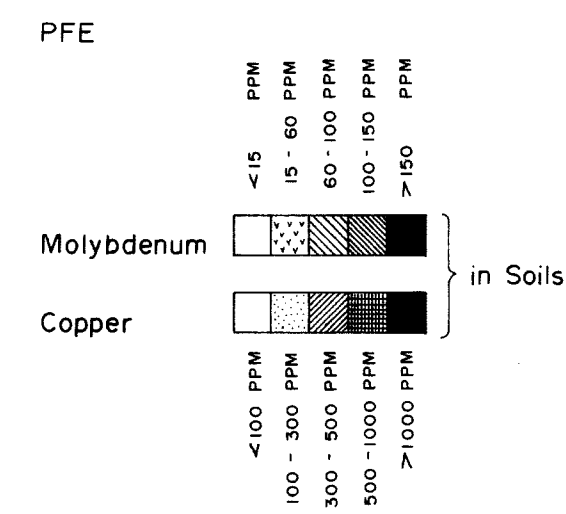
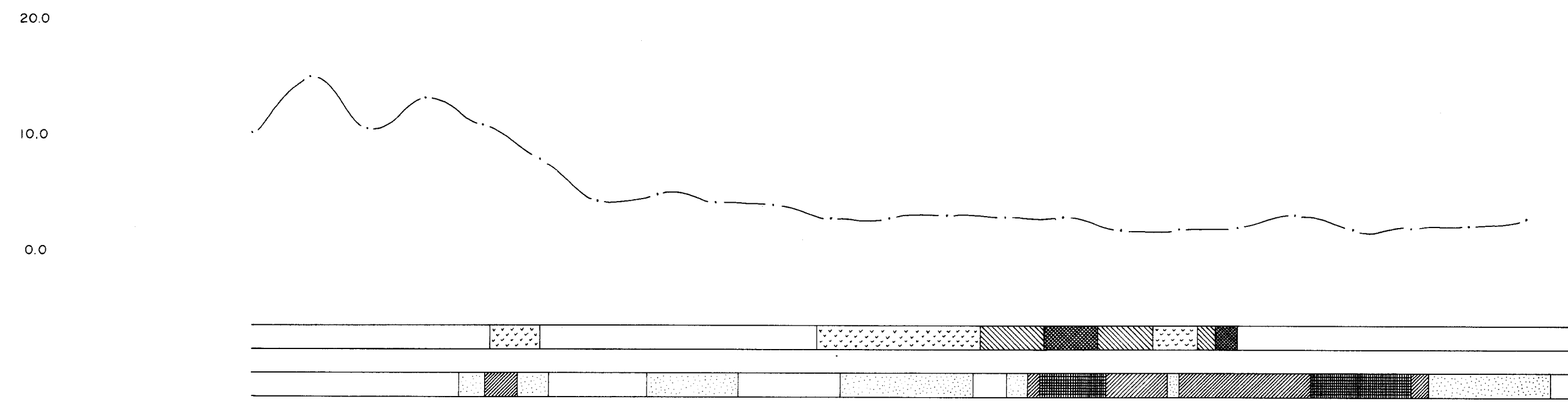
55°33'N, 127°20'W

part 2  
of 2



Submitted by: S.E. Prest, November 1981

Owner/Operator: Noranda Exploration Company, Limited  
(No Personal Liability)

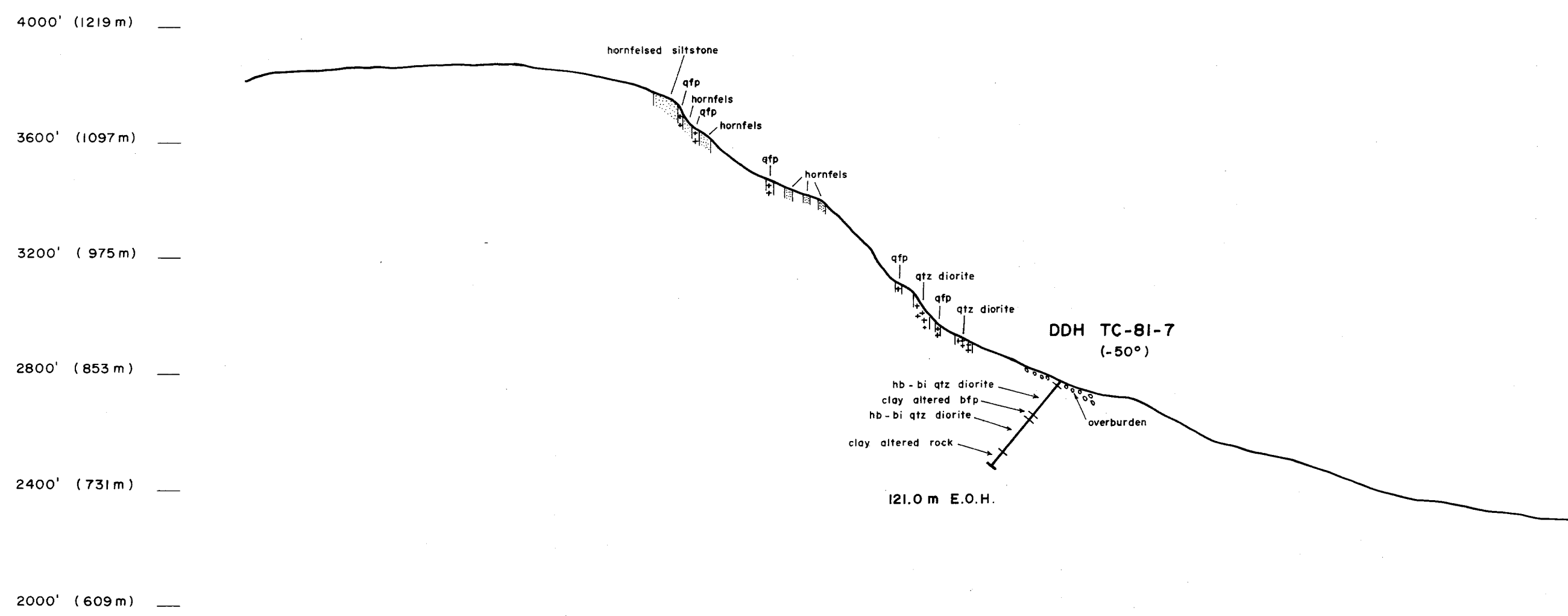
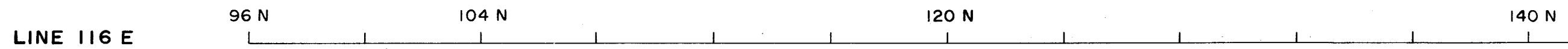
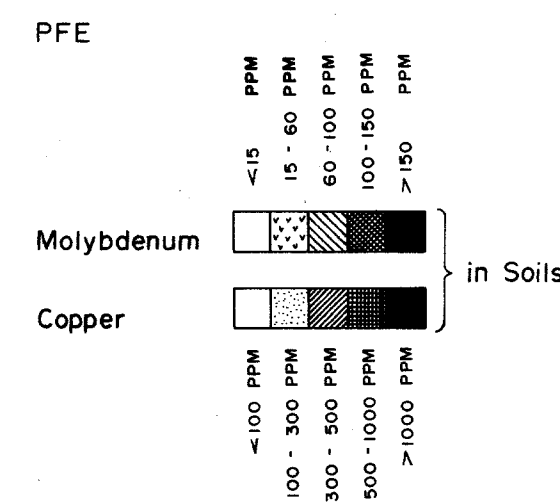
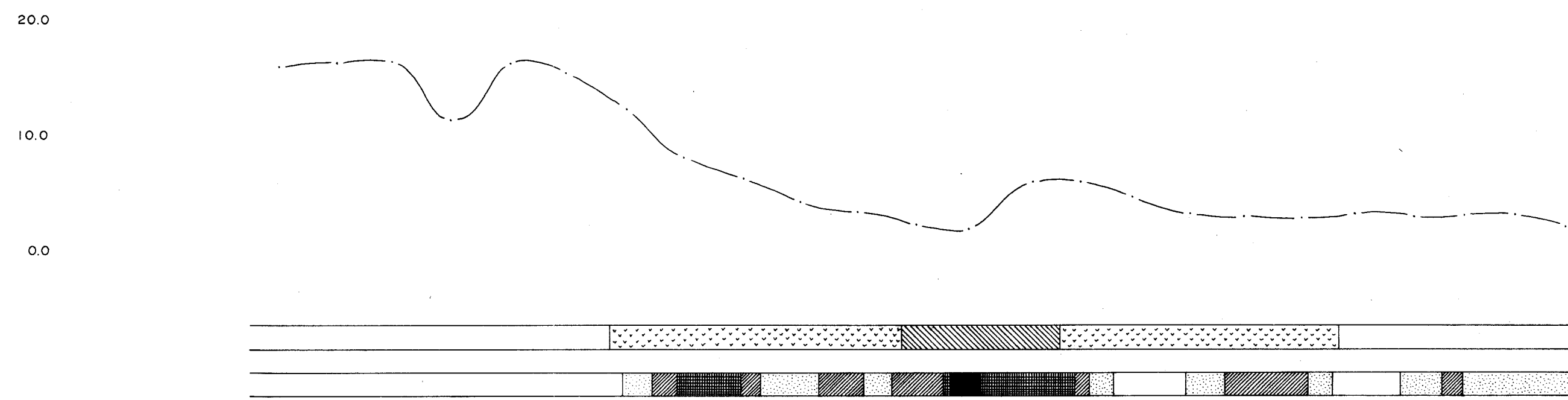


NORTH-SOUTH SECTION LOOKING GRID WEST

part 2  
of 2

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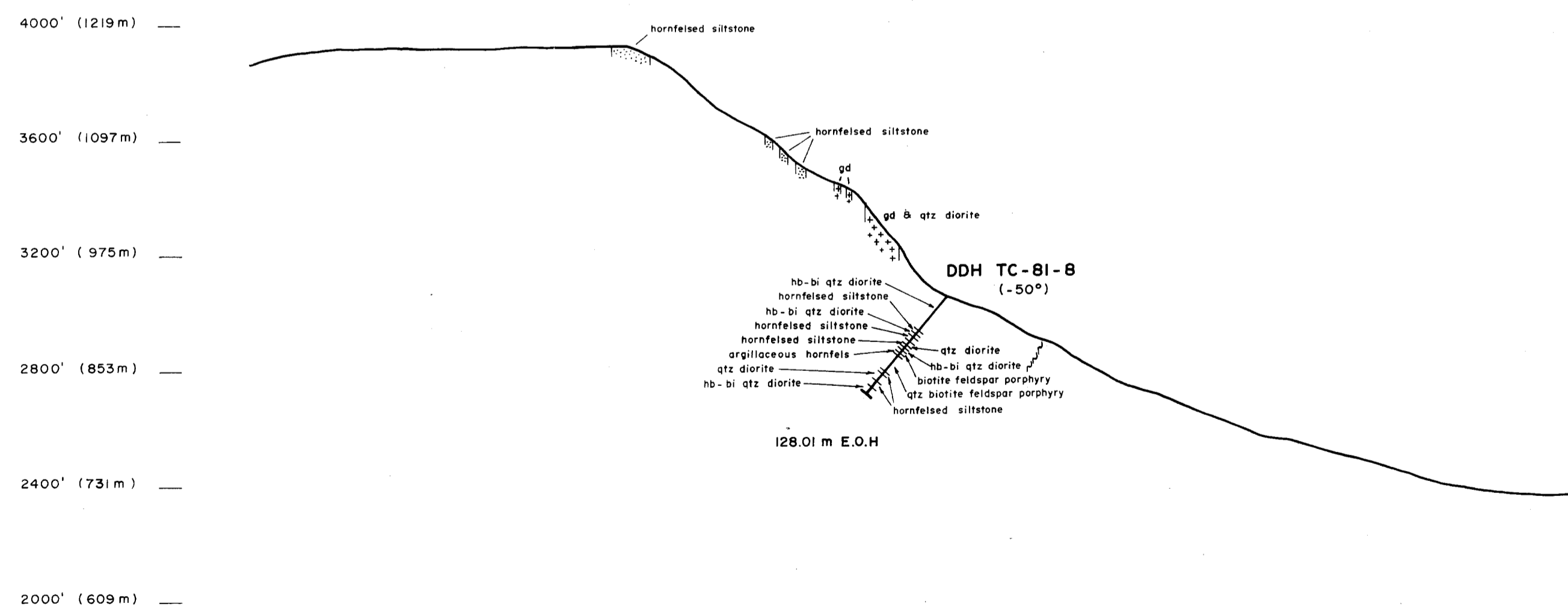
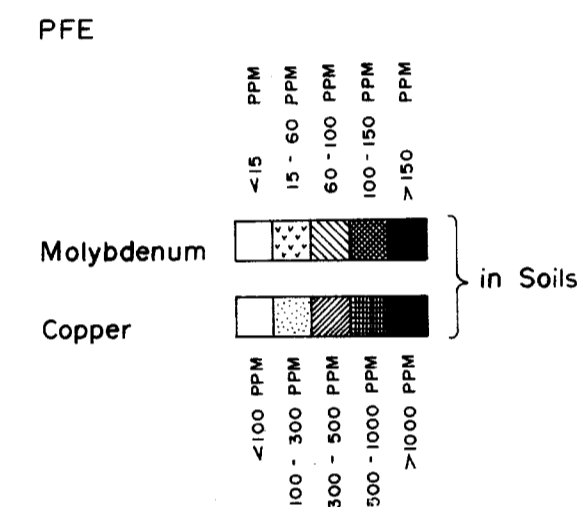
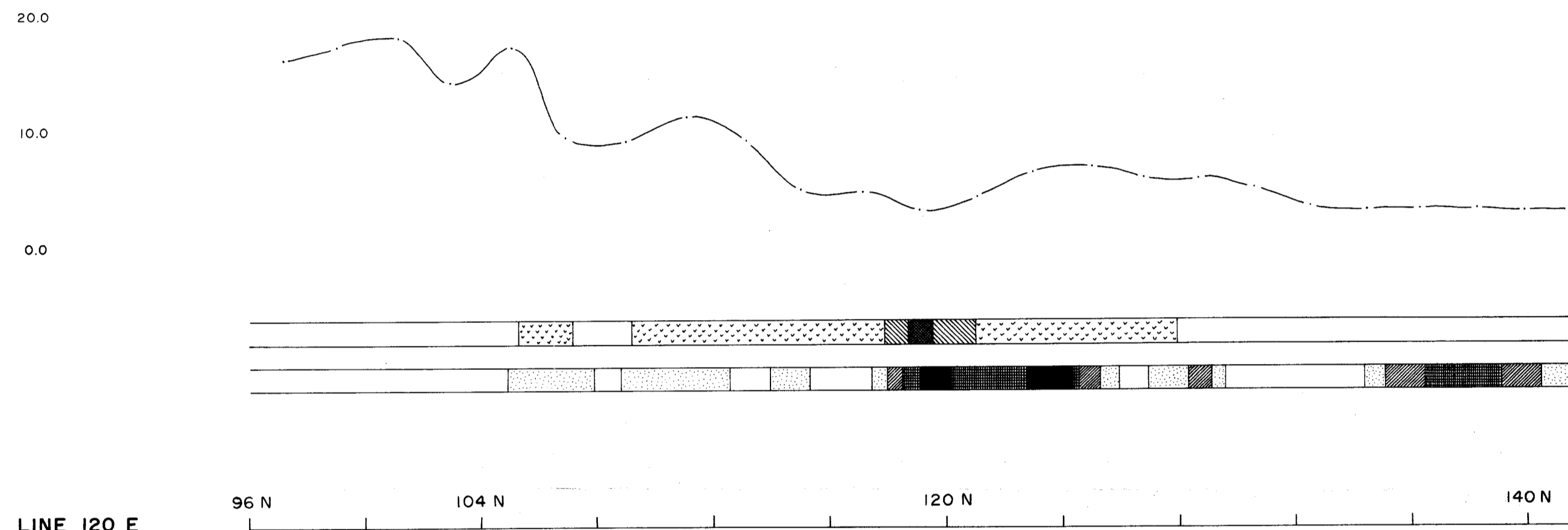
|                  |                        |                           |
|------------------|------------------------|---------------------------|
| REVISED          | THOMLINSON CREEK       |                           |
|                  | SECTION 108+00 E       |                           |
| PROJ. No. 1041   | SURVEY BY: S.E.P.      | DATE: Oct. 1981           |
| N.T.S. 93 M/11 W | DRAWN BY: E.C.         | SCALE: 1" = 400' (1:4800) |
| DWG. No.         | NORANDA EXPLORATION    |                           |
| FIG. 4.1         | OFFICE: SMITHERS, B.C. |                           |



NORTH-SOUTH SECTION LOOKING GRID WEST

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PART 2 OF 2

|                                |                        |                           |
|--------------------------------|------------------------|---------------------------|
| REVISED                        | THOMLINSON CREEK       |                           |
| <i>[Signature]</i><br>18/11/81 | SECTION 116+15 E       |                           |
| PROJ. No. 1041                 | SURVEY BY: S.E.P.      | DATE: Oct 1981            |
| N.T.S. 93.M./U.W.              | DRAWN BY: E.C.         | SCALE: 1" = 400' (1:4800) |
| DWG. No. FIG. 4.2              | NORANDA EXPLORATION    |                           |
|                                | OFFICE: SMITHERS, B.C. |                           |

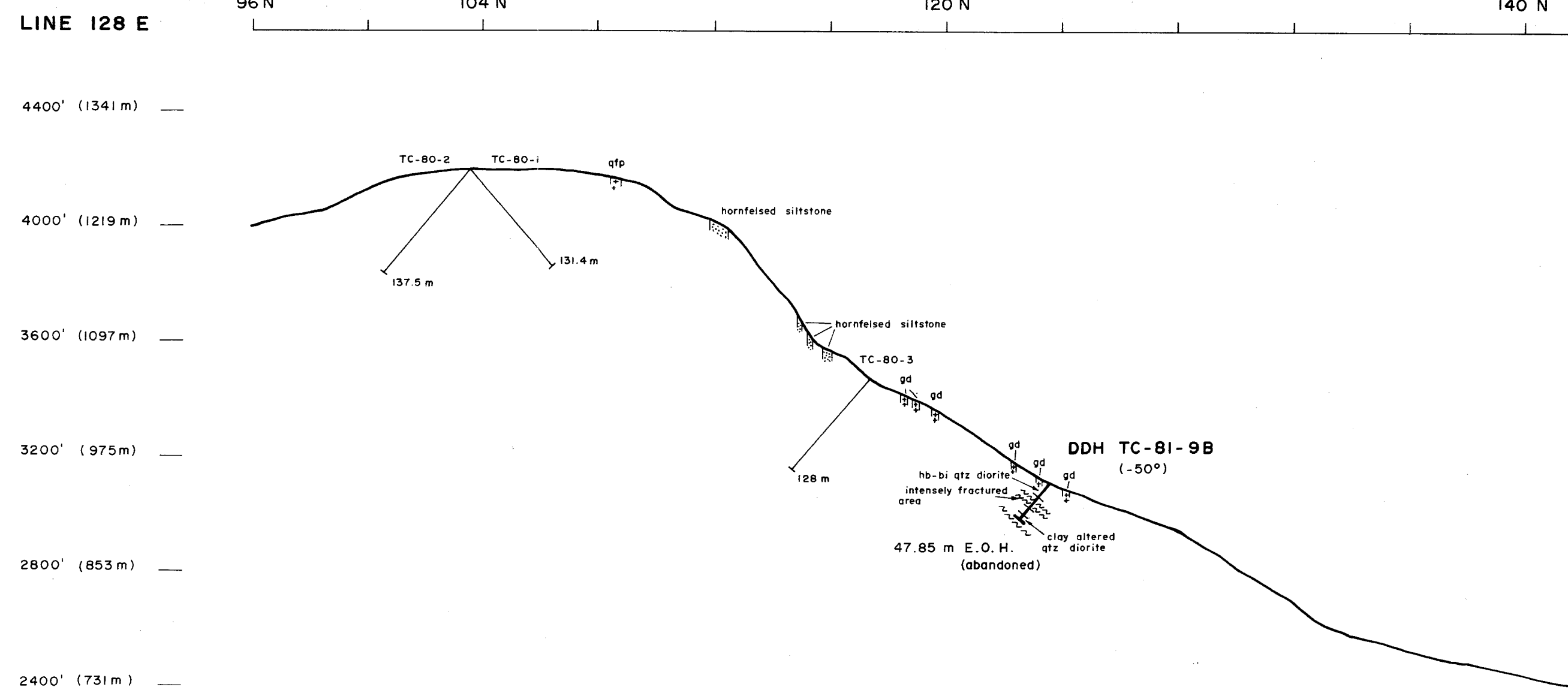
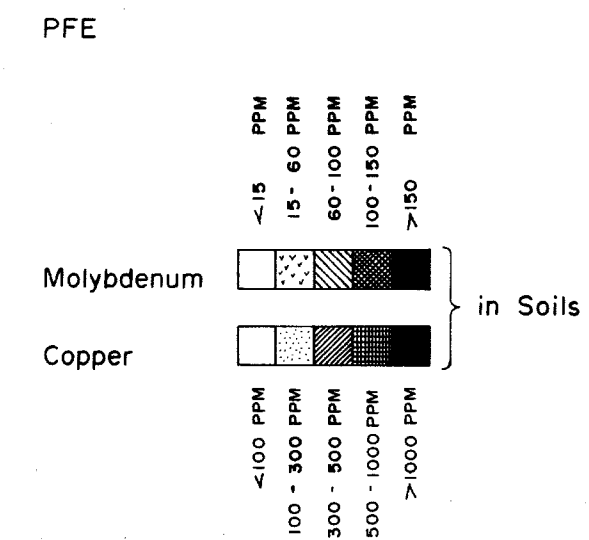
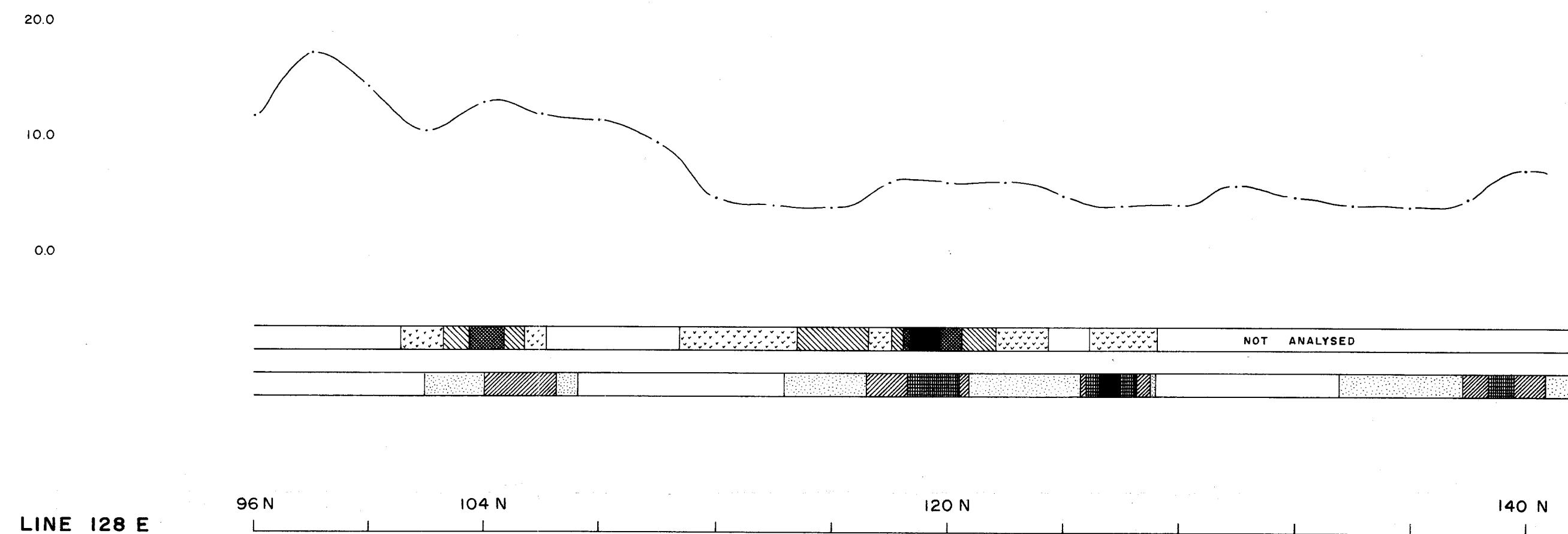


NORTH-SOUTH SECTION LOOKING GRID WEST

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of 2

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|                    |                        |                           |
|--------------------|------------------------|---------------------------|
| REVISED            | THOMLINSON CREEK       |                           |
| <i>[Signature]</i> | SECTION 119+90 E       |                           |
| PROJ. No. 1041     | SURVEY BY: S.E.P.      | DATE: Oct 1981            |
| N.T.S. 93 M / 11 W | DRAWN BY: E.C.         | SCALE: 1" = 400' (1:4800) |
| DWG. No.           | NORANDA EXPLORATION    |                           |
| FIG. 4.3           | OFFICE: SMITHERS, B.C. |                           |

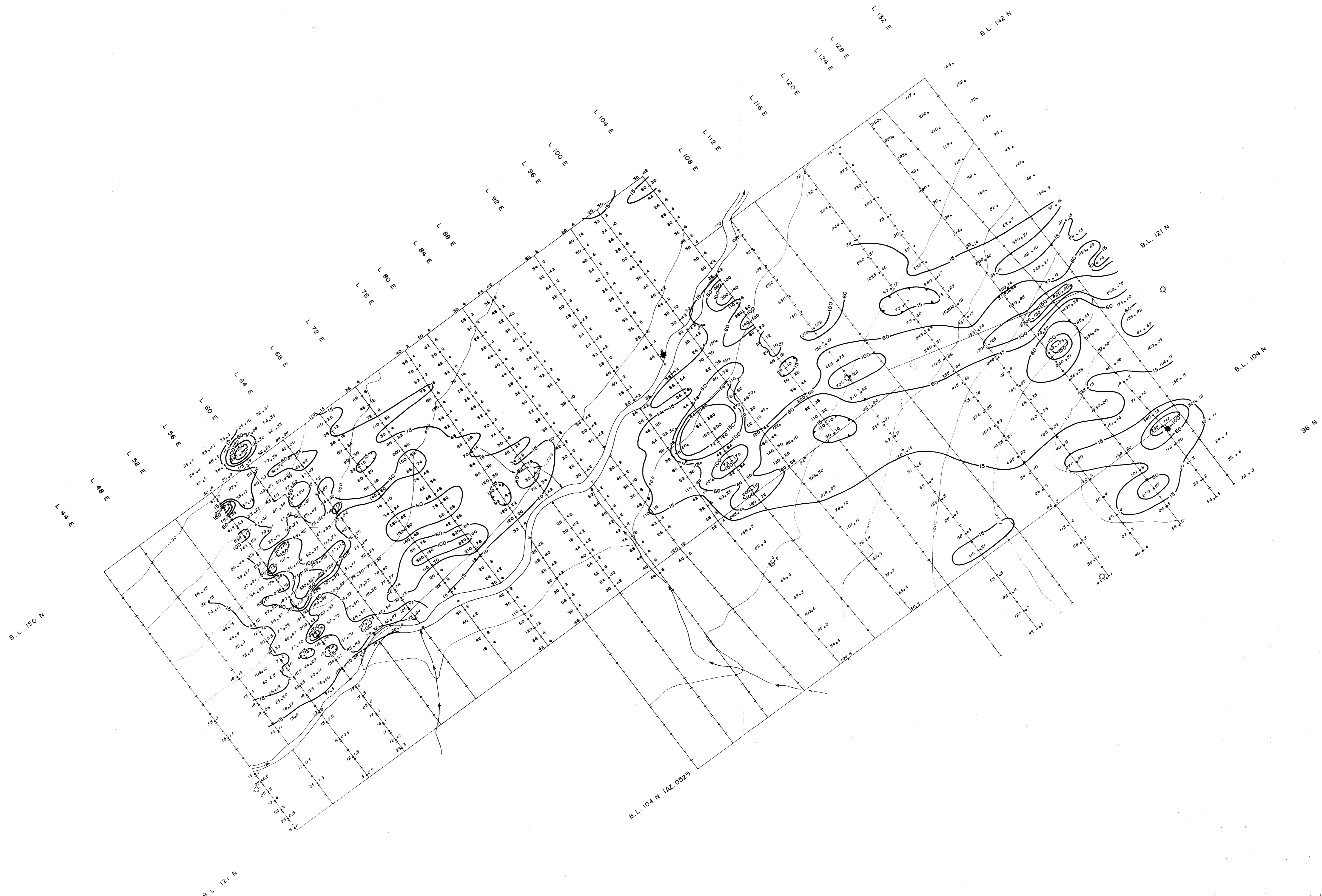


NORTH-SOUTH SECTION LOOKING GRID WEST

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of 2

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|                    |                        |                           |
|--------------------|------------------------|---------------------------|
| REVISED            | THOMLINSON CREEK       |                           |
| <i>[Signature]</i> | SECTION 128+10 E       |                           |
| PROJ. No. 1041     | SURVEY BY: S.E.P.      | DATE: Oct. 1981           |
| N.T.S. 93 M./11 W. | DRAWN BY: E.C.         | SCALE: 1" = 400' (1:4800) |
| DWG. No.           | NORANDA EXPLORATION    |                           |
| FIG. 4.4           | OFFICE: SMITHERS, B.C. |                           |



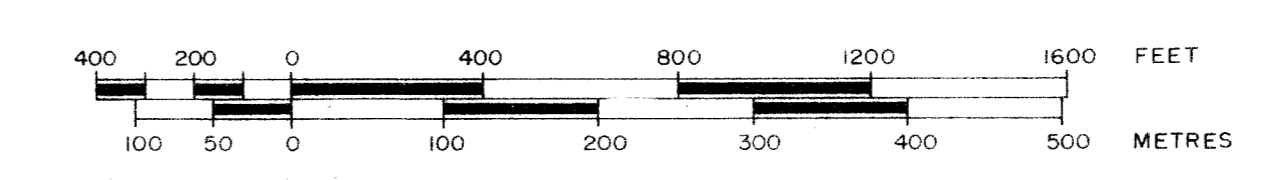
Part 2  
of 2

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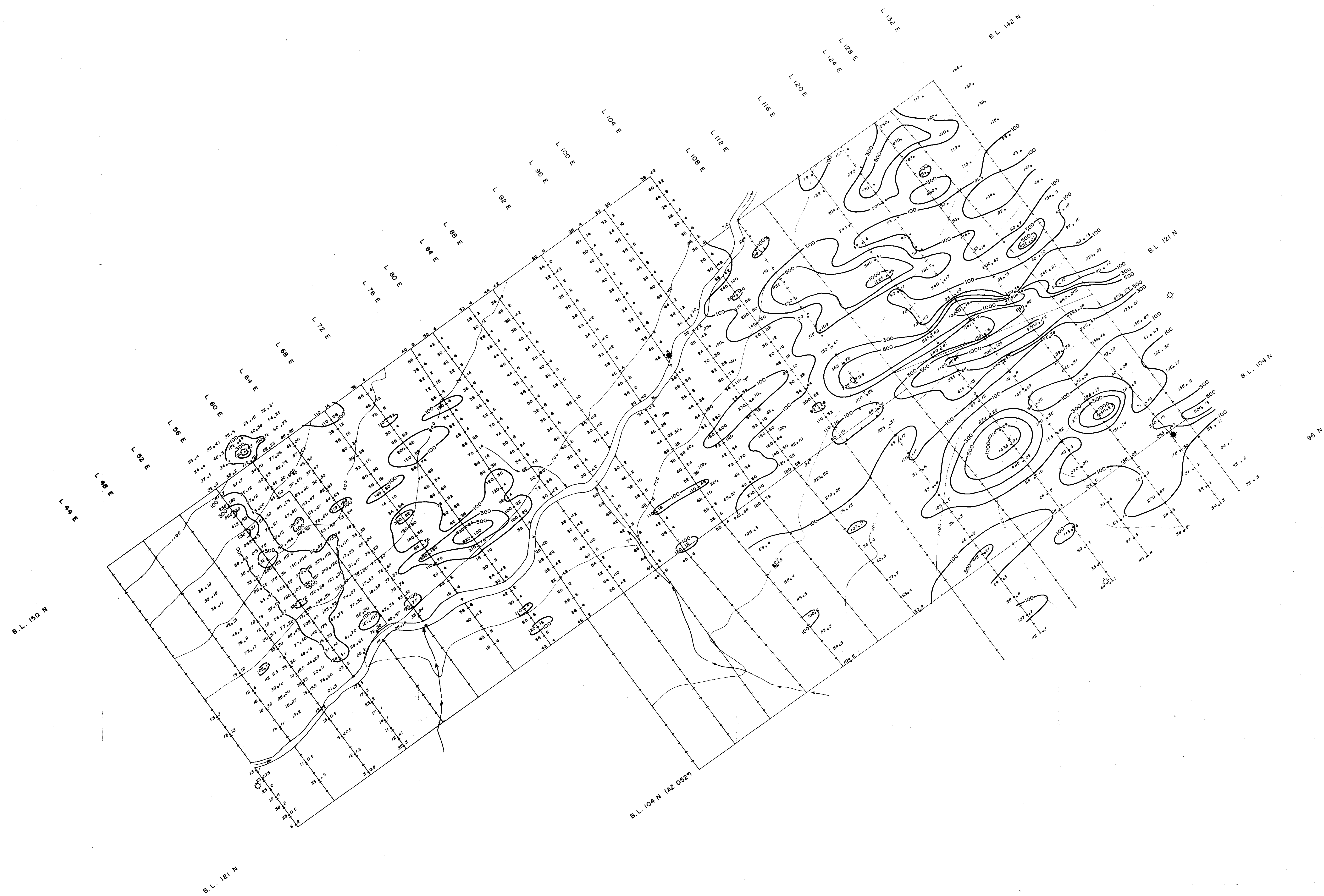
Cu (ppm) 160 44 Mo (ppm) 1981 Survey

315 .109 1971 - 1973 Granby Data

Mo Contours 15, 60, 100, 150



|                    |                             |                           |
|--------------------|-----------------------------|---------------------------|
| REVISED            | <b>THOMLINSON CREEK</b>     |                           |
| <i>[Signature]</i> | GEOCHEMISTRY: SOILS         |                           |
|                    | COPPER, MOLYBDENUM          |                           |
| PROJ. No. 1041     | SURVEY BY: L.C., A.W., G.C. | DATE: AUG. 1981           |
| DWG. No.           | DRAWN BY: E.C.              | SCALE: 1" = 400' (1:4800) |
| FIG. 5.1           | <b>NORANDA EXPLORATION</b>  |                           |
|                    | OFFICE: SMITHERS, B.C.      |                           |



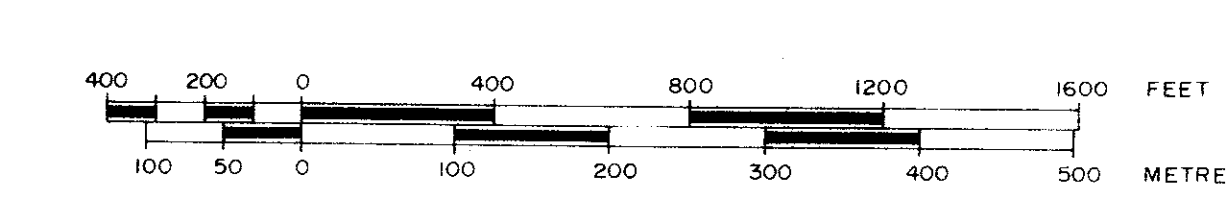
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of 2

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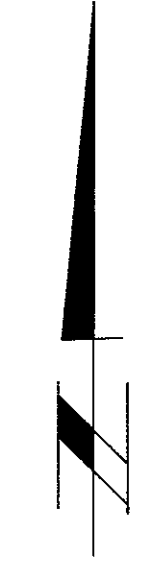
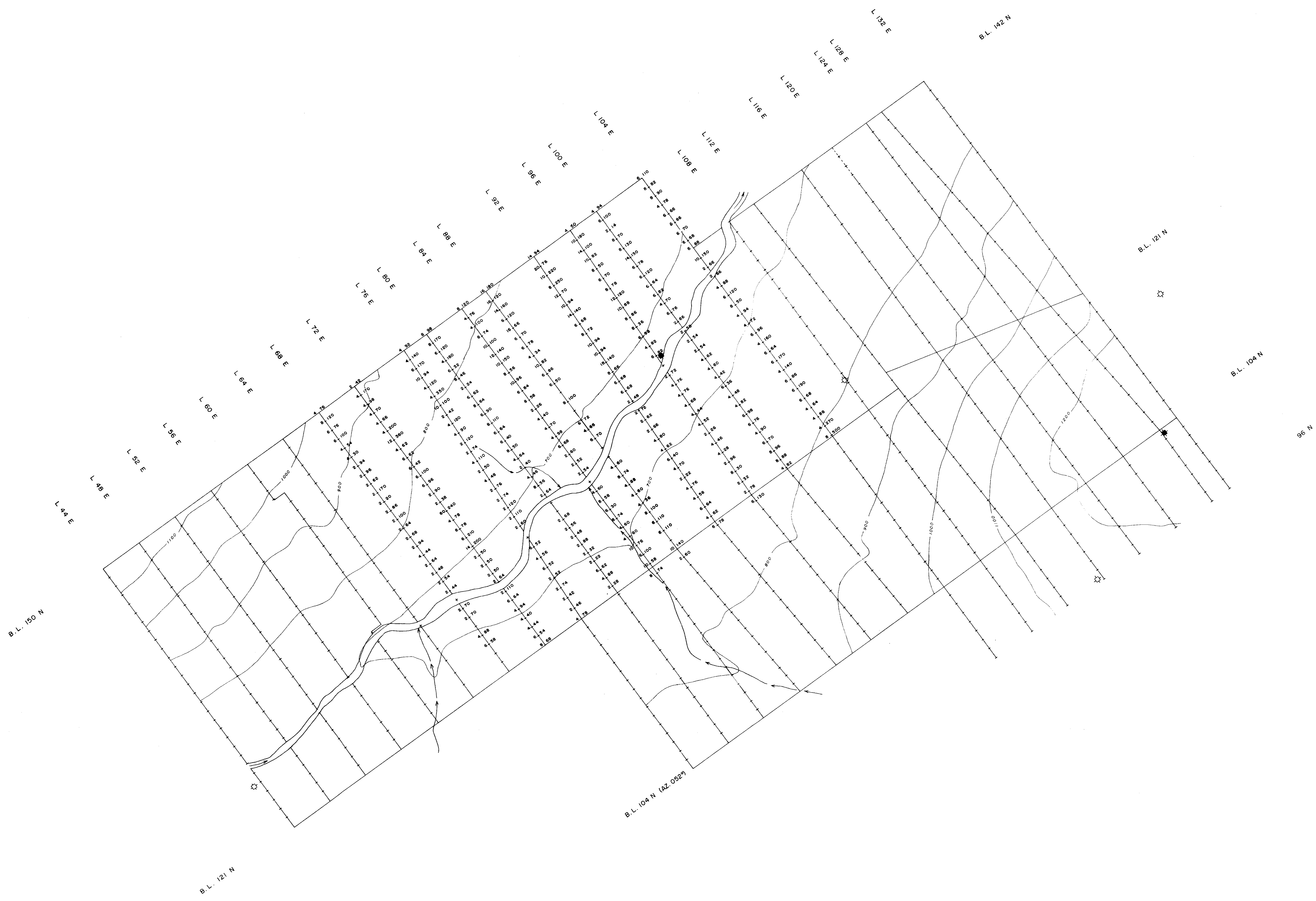
Cu (ppm) 100 400 Mo (ppm) 1981 Survey

1971 - 1973 Granby Data

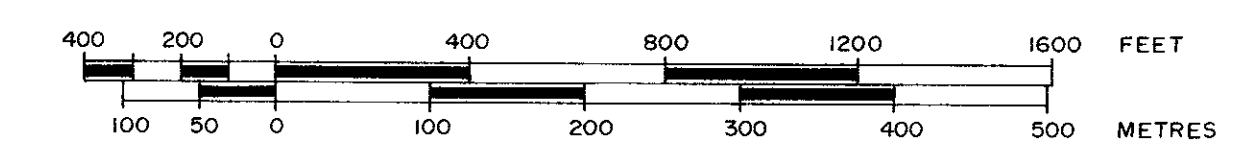
Cu Contours 100, 300, 500, 1000



|                    |                            |                          |
|--------------------|----------------------------|--------------------------|
| REVISED            | <b>THOMLINSON CREEK</b>    |                          |
| <i>[Signature]</i> | GEOCHEMISTRY: SOILS        |                          |
|                    | COPPER, MOLYBDENUM         |                          |
| PROJ. No 1041      | SURVEY BY L.C. A.W., G.C.  | DATE AUG. 1981           |
| NTS 93 M/11 W      | DRAWN BY E.C.              | SCALE 1" = 400' (1:4800) |
| DWG No             | <b>NORANDA EXPLORATION</b> |                          |
| FIG. 5.1           | OFFICE SMITHERS, B.C.      |                          |



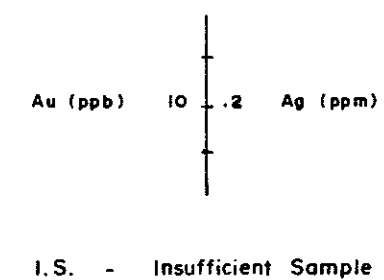
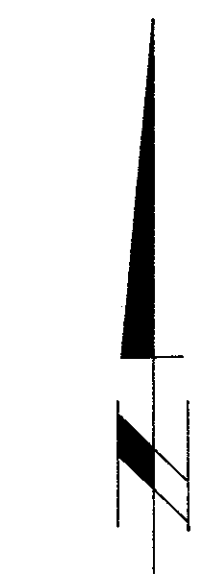
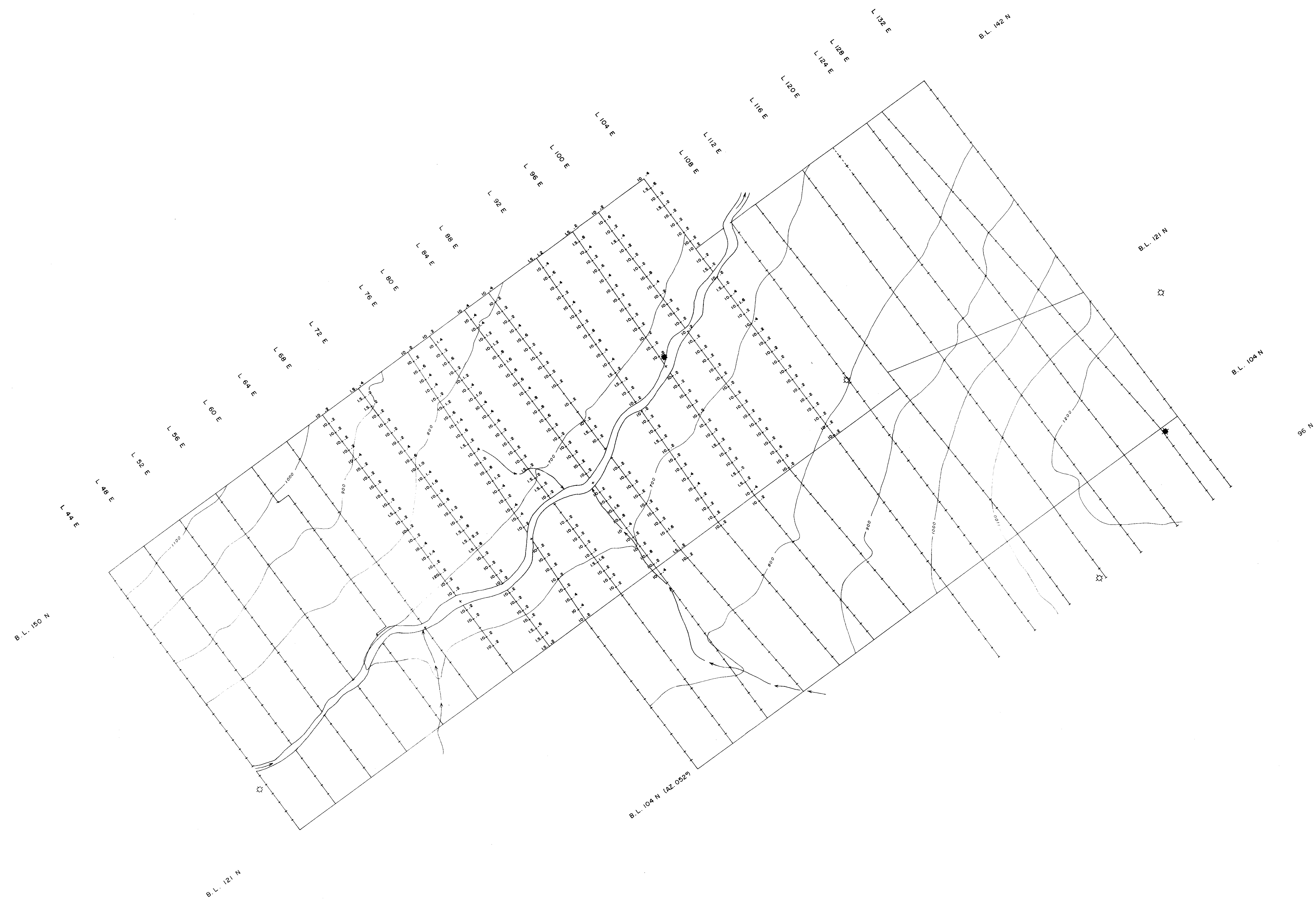
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Pb (ppm) 4 70 Zn (ppm)

|                 |                            |                           |
|-----------------|----------------------------|---------------------------|
| REVISED         | <b>THOMLINSON CREEK</b>    |                           |
|                 | GEOCHEMISTRY: SOILS        |                           |
|                 | LEAD, ZINC                 |                           |
| PROJ. No. 1041  | SURVEY BY: L.C. A.W., G.C. | DATE: AUG. 1981           |
| N.T.S. M.L.L.W. | DRAWN BY: E.C.             | SCALE: 1" = 400' (1:4800) |
| DWG. No.        | <b>NORANDA EXPLORATION</b> |                           |
| FIG. 5.2        | OFFICE: SMITHERS, B.C.     |                           |



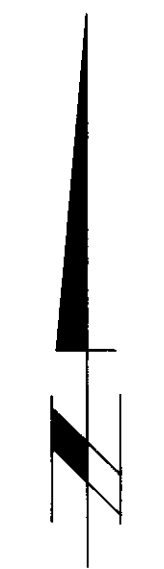
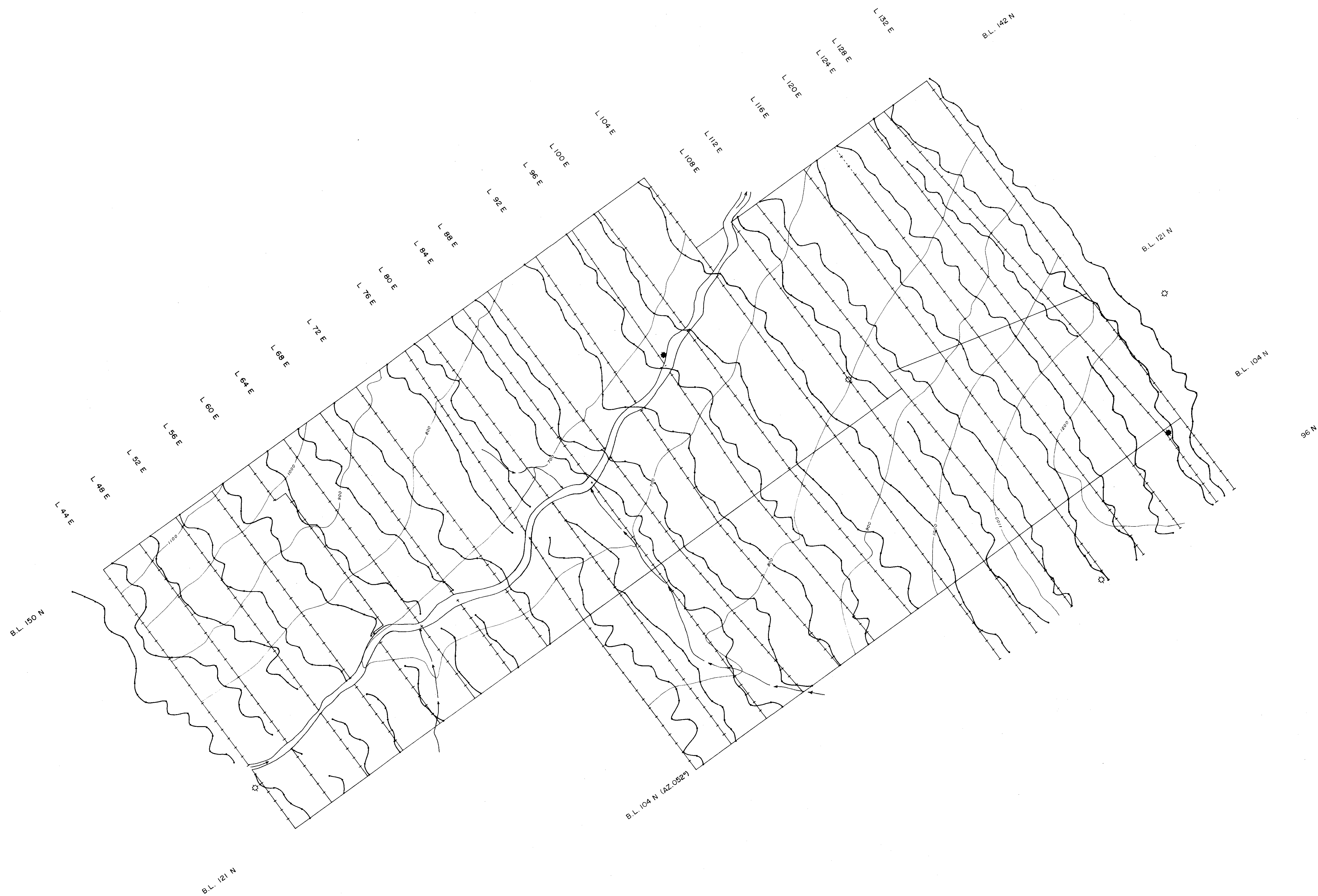


part 2  
of 2

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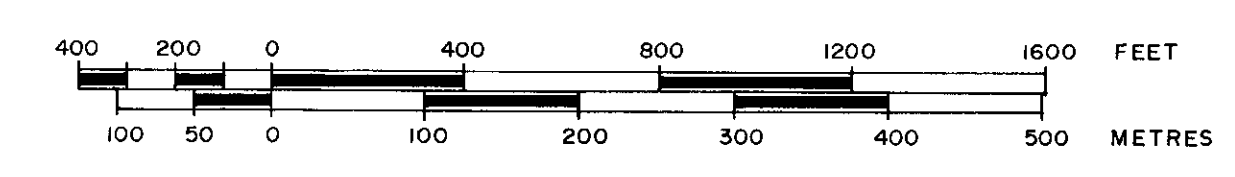


|                     |                             |                           |
|---------------------|-----------------------------|---------------------------|
| REVISED             | THOMLINSON CREEK            |                           |
| <i>[Signature]</i>  | GEOCHEMISTRY: SOILS         |                           |
|                     | GOLD, SILVER                |                           |
| PROJ. No. 1041      | SURVEY BY: L.C., A.W., G.C. | DATE: AUG. 1981           |
| N.T.S. 93 M / 111 W | DRAWN BY: E.C.              | SCALE: 1" = 400' (1:4800) |
| DWG. No.            | NORANDA EXPLORATION         |                           |
| FIG. 5.3            | OFFICE: SMITHERS, B.C.      |                           |

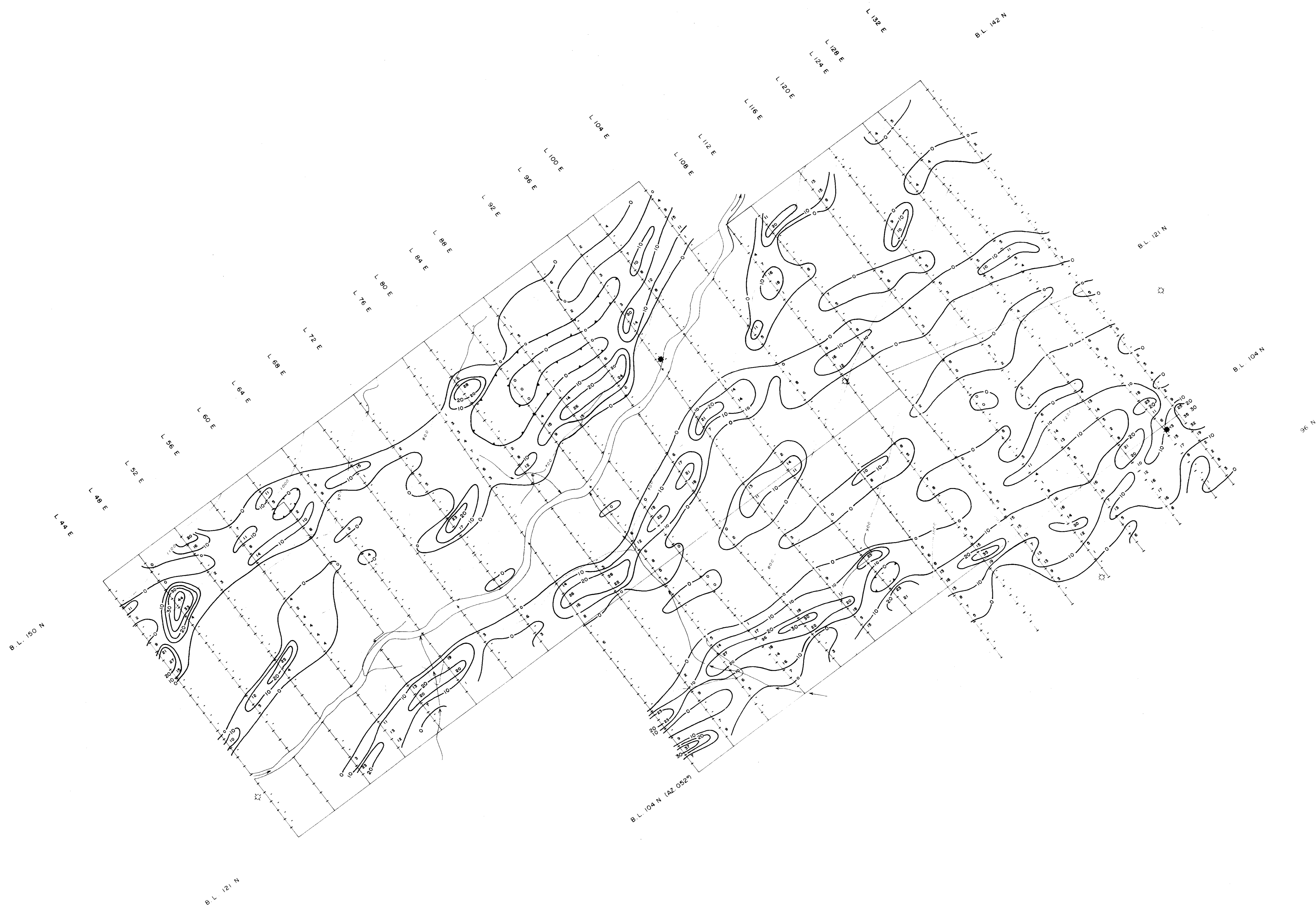


| GEOPHYSICAL LEGEND   |  |
|----------------------|--|
| INSTRUMENTS:         | SABRE, and RADEM receivers.  |
| TRANSMITTER STATION: | Loulualei, Hawaii (23.4 KHZ)   |
| OPERATORS:           | S.E. Prest, G. Cooper, L. Cormier,<br>A. Way and D. Hill.<br>(Readings taken facing grid west) |
| VERTICAL SCALE:      | 1" = 40'   |
|                      |  |
|                      | Positive readings to right of line.  |
|                      | Negative readings to left of line.   |

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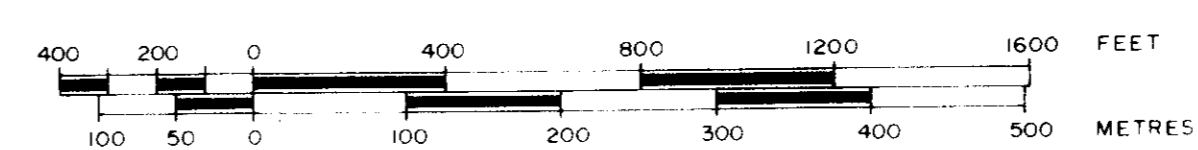
| REVISED             | THOMLINSON CREEK                       |                           |
|---------------------|--|---------------------------|
|                     | VLF - EM SURVEY<br>PROFILED DIP ANGLES |                           |
| PROJ. No. 1041      | SURVEY BY: _____                       | DATE: AUG. 1981           |
| N.T.S. 93 M / 111 W | DRAWN BY: E.C.                         | SCALE: 1" = 400' (1:4800) |
| DWG No.             | <b>NORANDA EXPLORATION</b>             |                           |
| FIG. 6              | OFFICE: SMITHERS, B.C.                 |                           |



| GEOPHYSICAL LEGEND |  |
|--------------------|--|
| INSTRUMENTS:       | SABER and RADEM receivers.   |
| TRANSMITTER STA.:  | Lauluotei, Hawaii (23.4 KHZ)   |
| OPERATORS:         | S.E. Prest, G. Cooper, L. Cormier, A. Way, D. Hill.<br>(Readings taken facing grid west) |
| CONTOUR INTERVAL:  | 10*  |

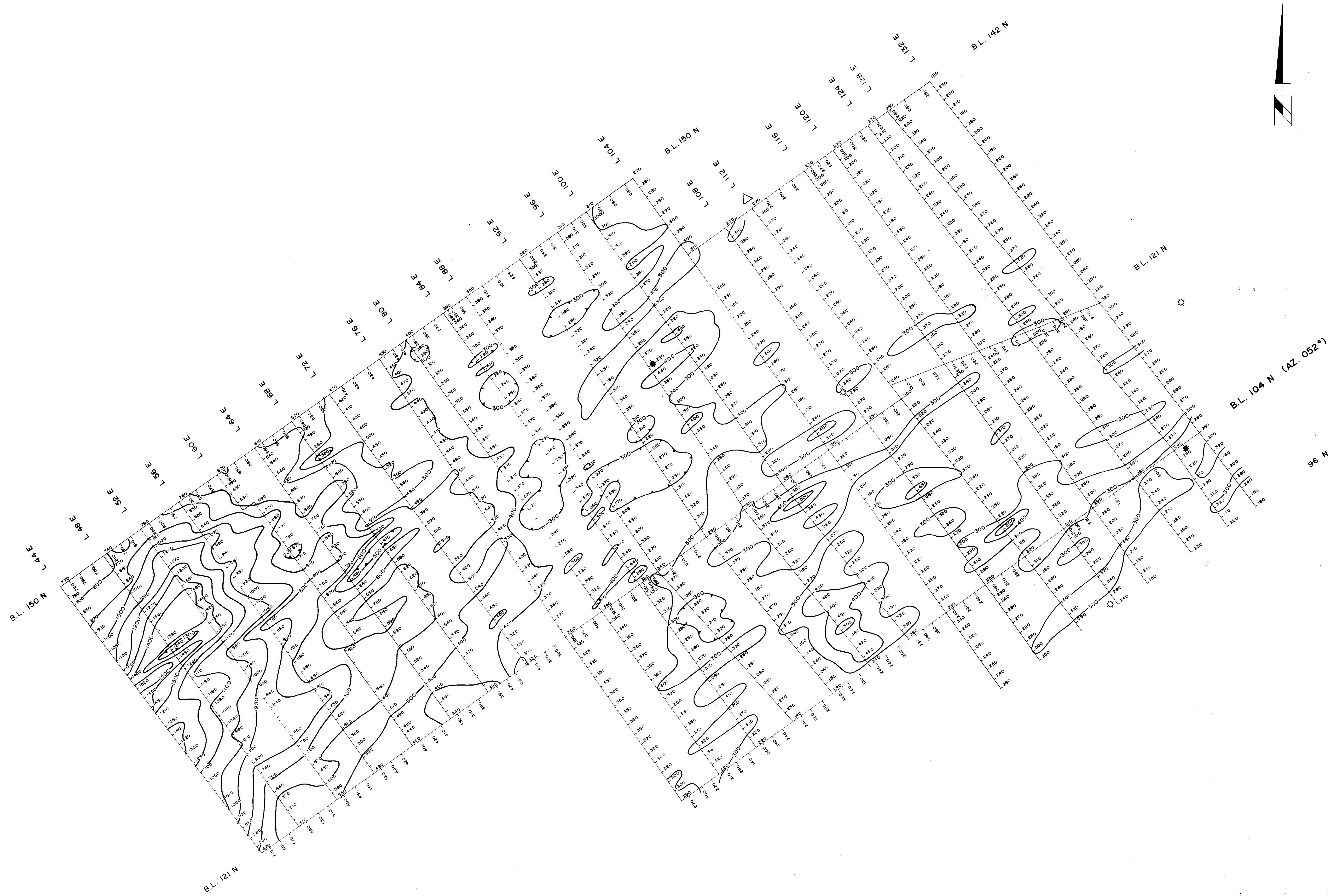
part 2  
of 2

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| REVISED                        |   | THOMLINSON CREEK                        |                           |
|--------------------------------|---|---|---------------------------|
| <i>[Signature]</i><br>12/11/81 |   | VLF - EM SURVEY<br>FRASER FILTERED DATA |                           |
| PROJ. No. 1041                 | SURVEY BY: E.C.                               | DATE: AUG. 1981                         | SCALE: 1" = 400' (1:4800) |
| DWG. No. FIG. 7                | NORANDA EXPLORATION<br>OFFICE: SMITHERS, B.C. |   |                           |


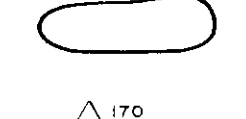



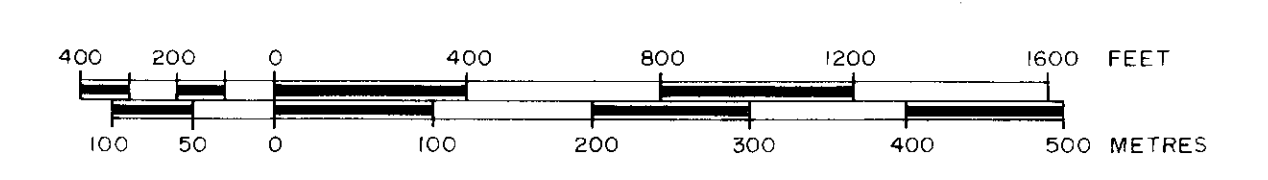


**LEGEND**

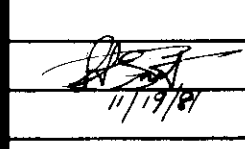
Instruments: MF 2, M-700  
 Measurement: total field  
 Datum: +2,000 f  
 Contour interval: 100 f

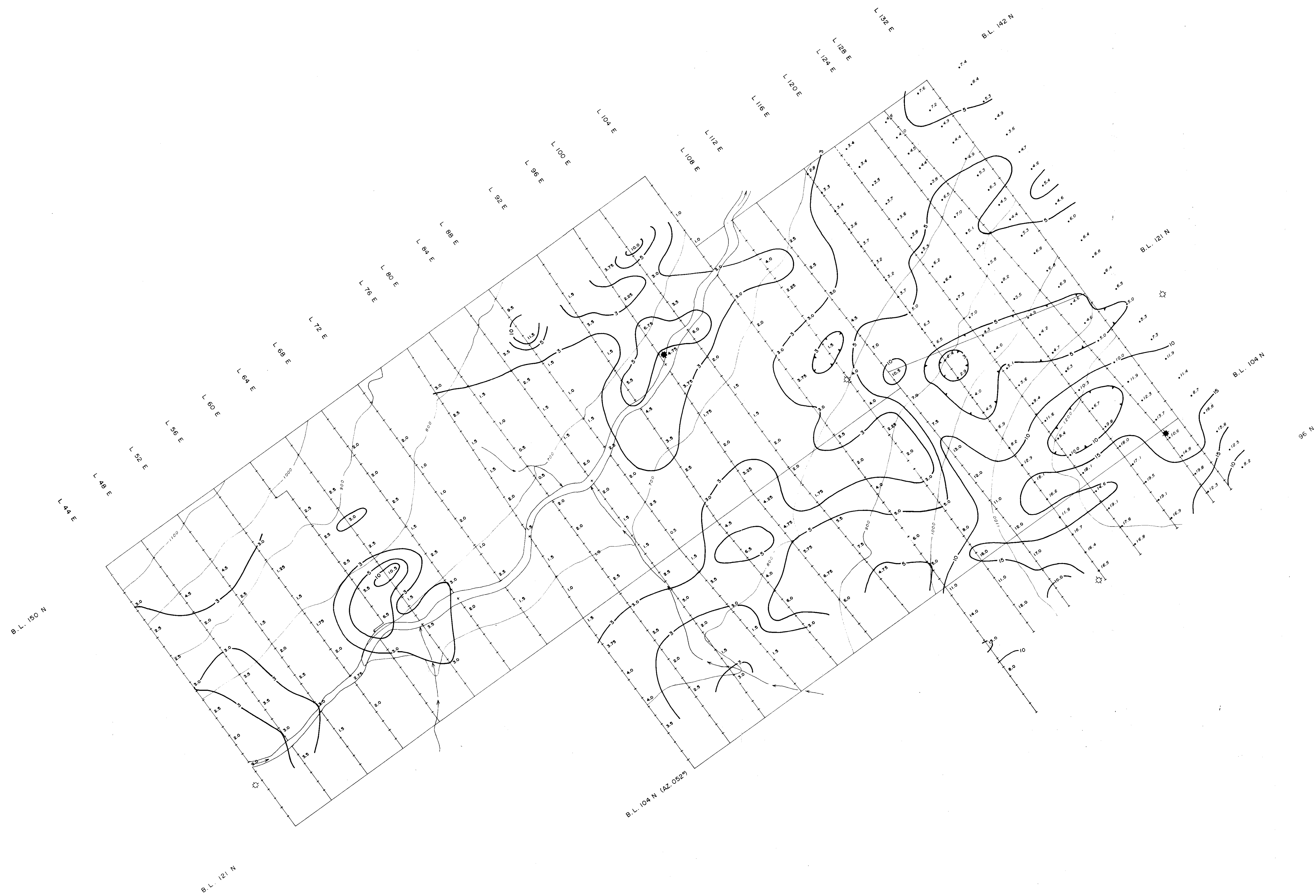
**SYMBOLS**

-  Magnetic depression
-  Magnetic contour
-  Base station location and magnetometer reading

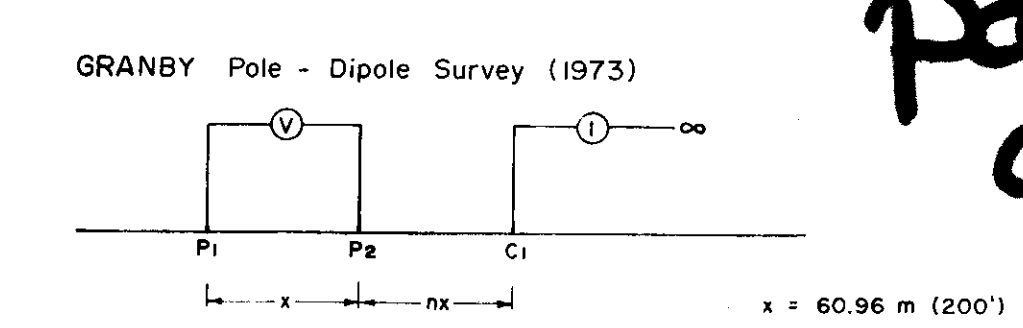
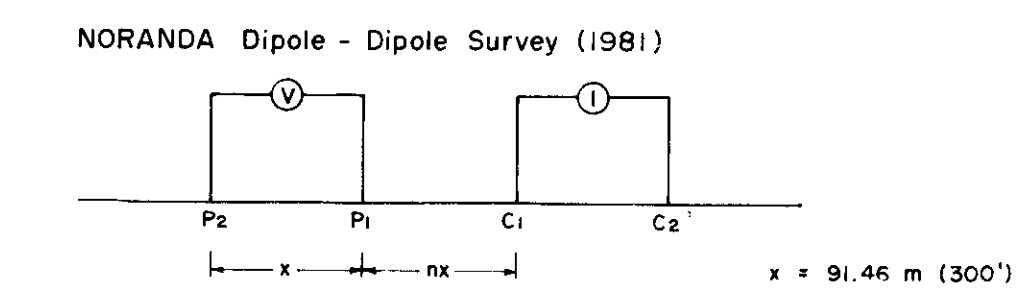


part 2  
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|   |                               |                              |  |
|---|-------------------------------|------------------------------|--|
| REVISED   |                               | MAGNETOMETER SURVEY          |  |
| <br>1/1/78 |                               |                              |  |
| PROJECT: THOMLINSON   |                               | DATE: JUNE 1981              |  |
| PROJ. NO 1041   | SURVEYED BY: L.C. A.W. & G.C. | SCALE: 1" = 400' (1:4800)    |  |
| N.T.S. 33 M/11 W  | DRAWN BY: E.C.                | NORANDA EXPLORATION CO. LTD. |  |
| DWG. NO 9   | FIG. 9                        | OFFICE: SMITHERS, B.C.       |  |



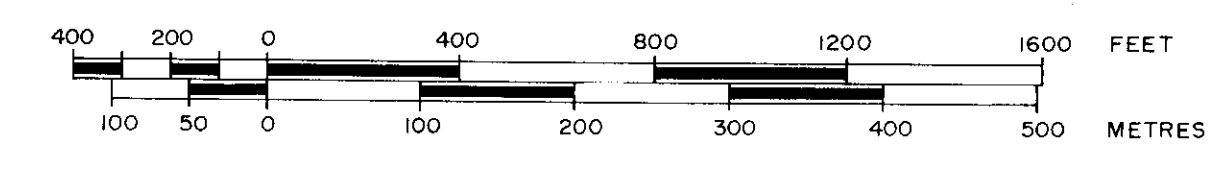
**LEGEND**



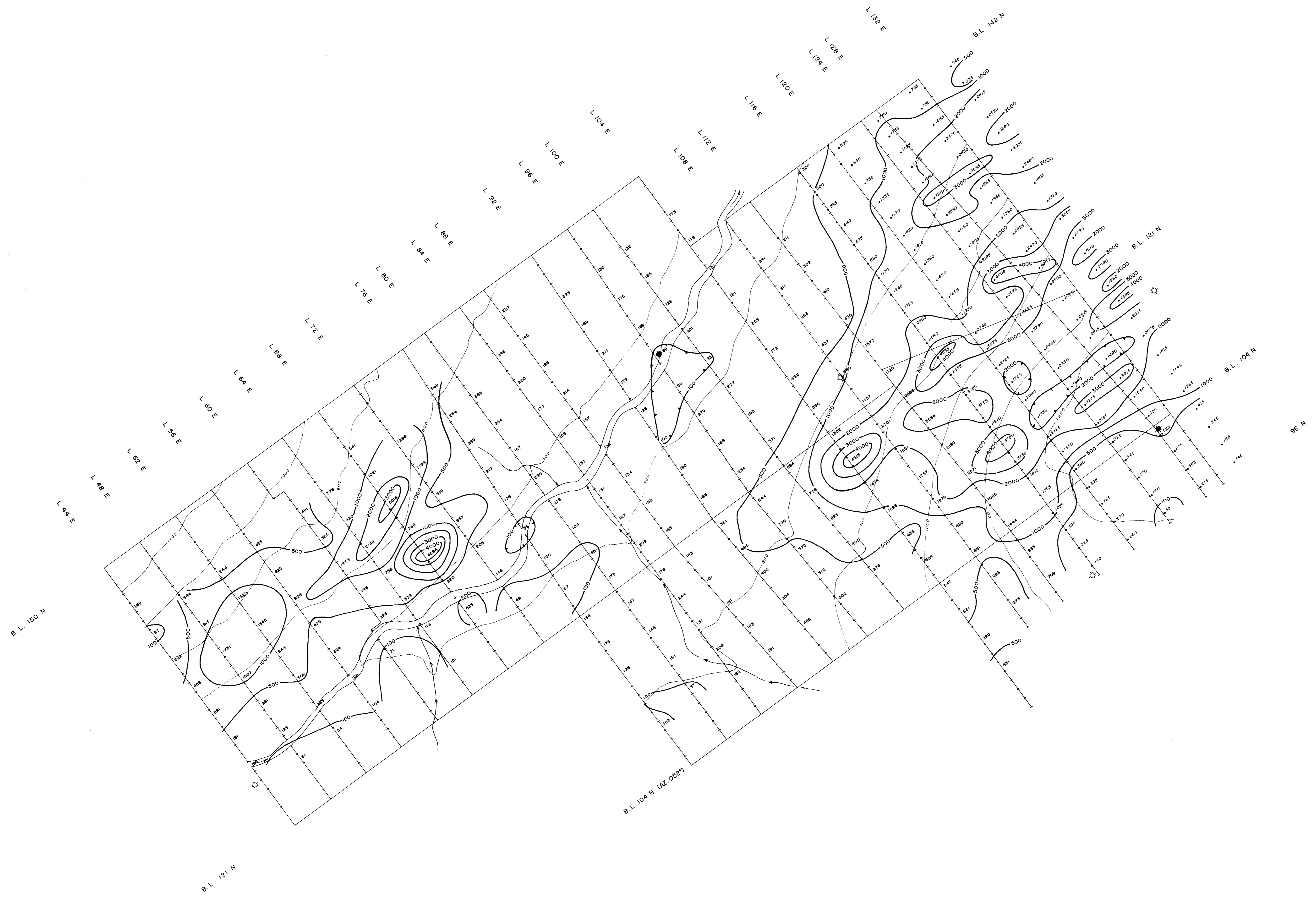
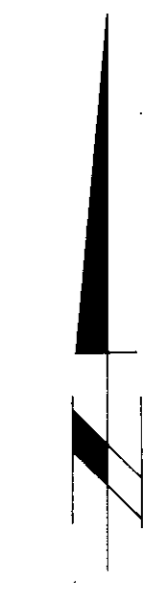
NORANDA result     ↓ 2.5  
 GRANBY result     × 2.7  
 Contours             3, 5, 10, 15 %

*Part 2 of 2*

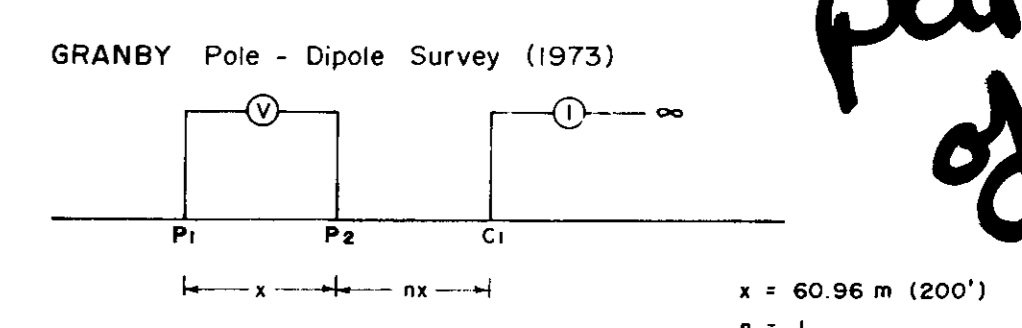
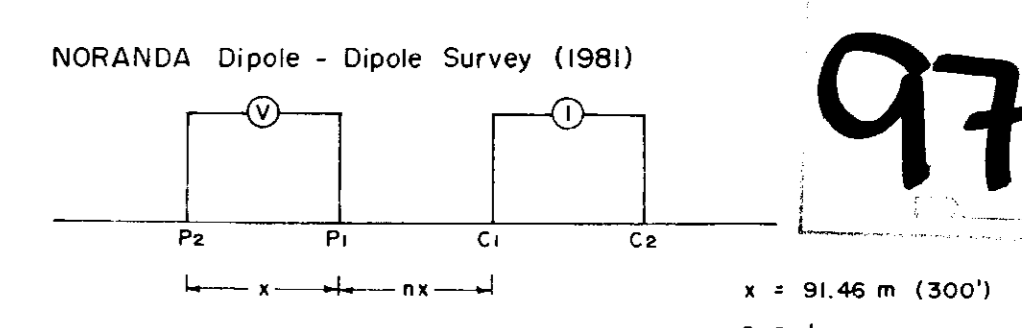
**9787**



|                       |  |                           |
|-----------------------|--|---------------------------|
| REVISED               | <b>THOMLINSON CREEK</b>                                  |                           |
|                       | INDUCED POLARIZATION SURVEY<br>PERCENT FREQUENCY RESULTS |                           |
| PROJ. No. 1041        | SURVEY BY: M.S., P.C.                                    | DATE: AUG. 1981           |
| N.T.S. 93 M. Z.I.I.W. | DRAWN BY: E.C.   | SCALE: 1" = 400' (1:4800) |
| DWG. No.              | <b>NORANDA EXPLORATION</b>                               |                           |
| FIG. 10.1             | OFFICE: SMITHERS, B.C.                                   |                           |



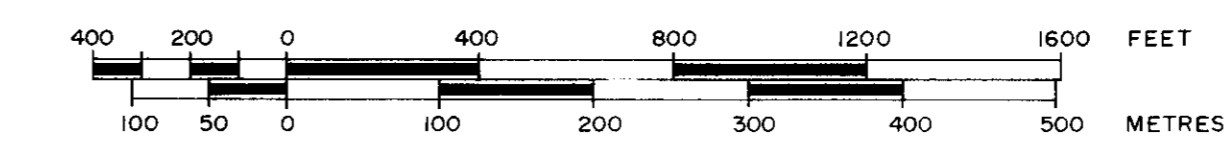
LEGEND



NORANDA result 324  
GRANBY result 2750  
Contours 100, 500, 1000, 2000, 3000, 4000 (Lm)

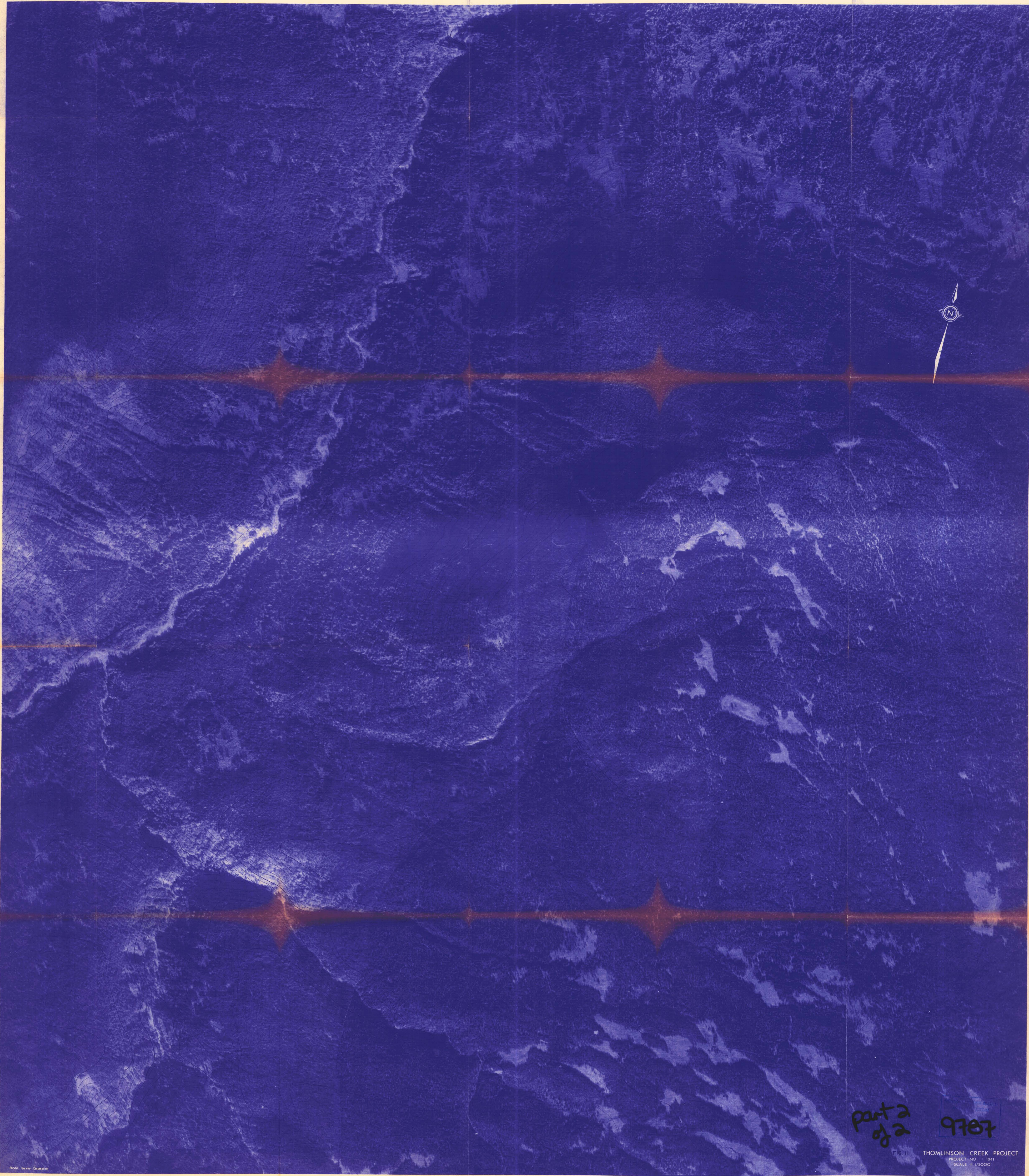
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|                                  |   |                           |
|----------------------------------|---|---------------------------|
| REVISED                          | THOMLINSON CREEK                                    |                           |
| <i>M.D. Smithers</i><br>20/11/81 | INDUCED POLARIZATION SURVEY<br>APPARENT RESISTIVITY |                           |
| PROJ. No. 1041                   | SURVEY BY: M.S., P.C.                               | DATE: AUG. 1981           |
| N.T.S. 32 M / 11 W               | DRAWN BY: E.C.                                      | SCALE: 1" = 400' (1:4800) |
| DWG. No. FIG. 10.2               | NORANDA EXPLORATION                                 |                           |
|                                  | OFFICE: SMITHERS, B.C.                              |                           |

APR 81 3:40

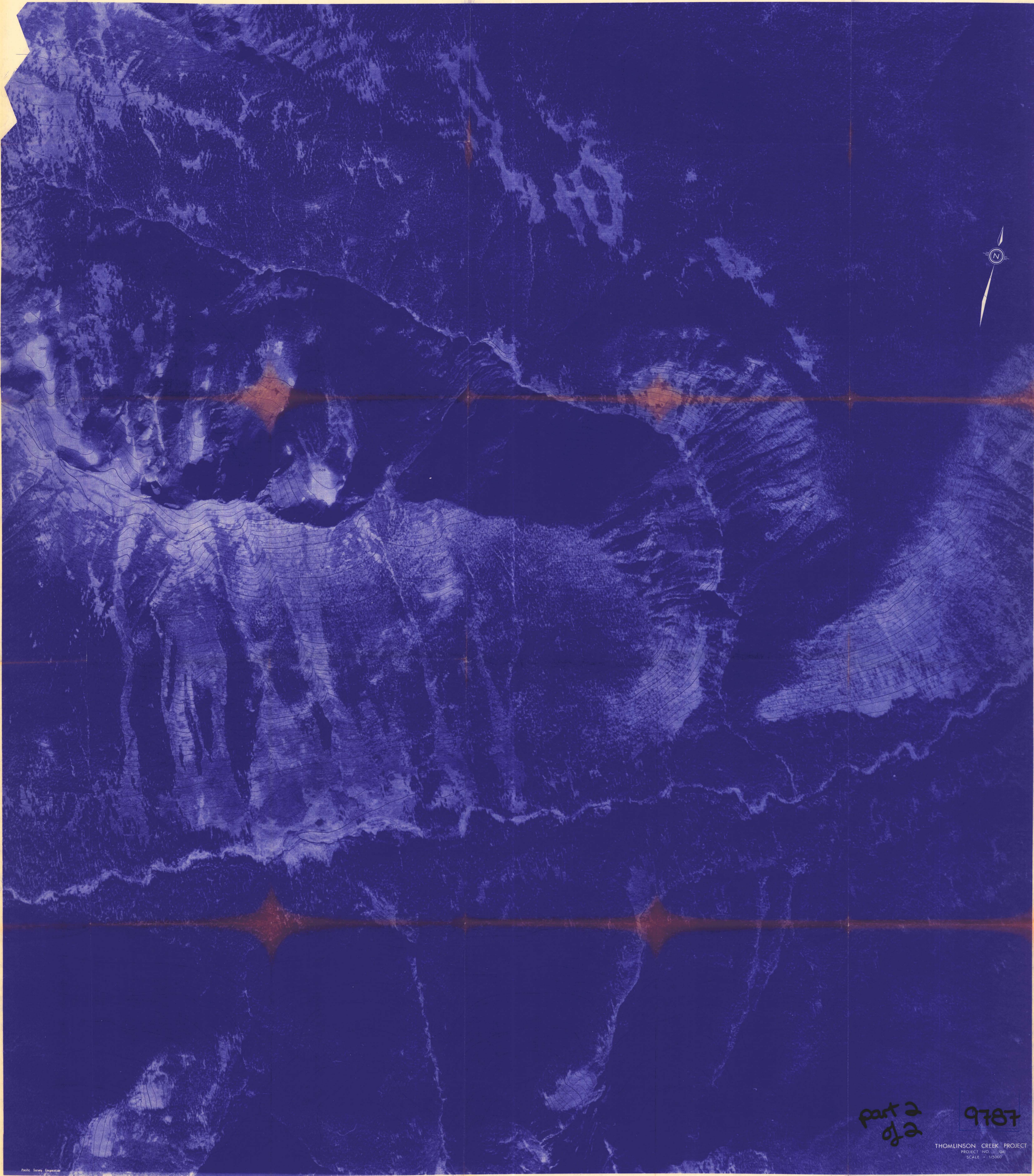


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of 2

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FIG. 11 THOMLINSON CREEK PROJECT  
PROJECT NO. 1041  
SCALE = 1/5000





part 2  
of 2

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THOMLINSON CREEK PROJECT  
PROJECT NO. 041  
SCALE = 1/5000

**NOTES**

The contact between hornfels and granodiorite on the NE sector of the grid contains the most prominent quartz veining located within the grid limits. Quartz veins from 10 cm to 50 cm wide have been observed near L 114 W, 120 N and contain >1% disseminated chalcopyrite and molybdenite throughout and along fringes. Mineralized veining and fracturing remains prominent away from the contact, but fractures become tighter and less silicified.

Most cpy - Mo mineralization in granitoid rocks observed to date from L 108 E to L 132 E occurs on two different fracture planes. Fractures can occur in any number or exist in any direction, but rarely are cpy - Mo found simultaneously on the same fracture plane, therefore suggesting molybdenite is later than chalcopyrite.

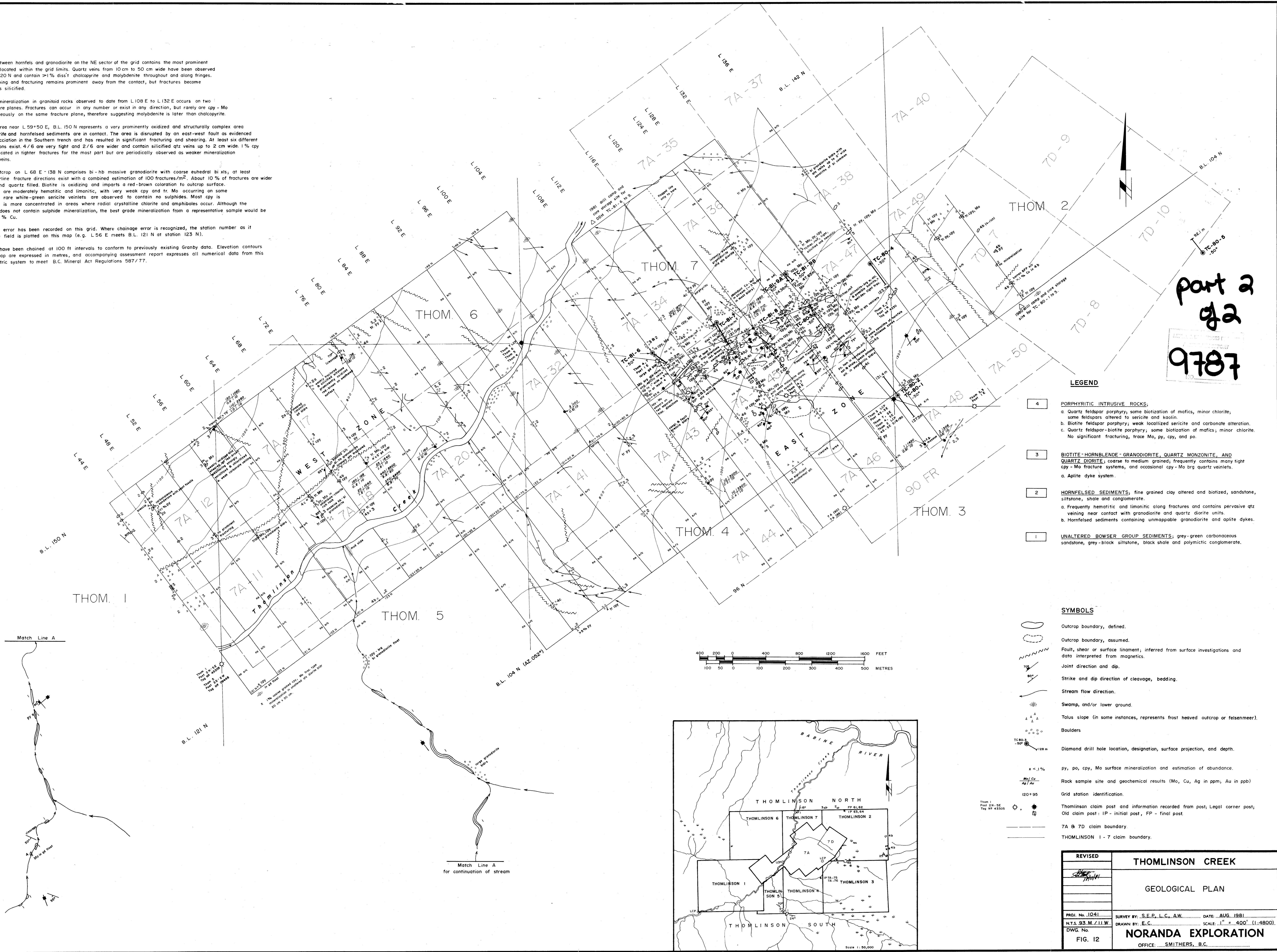
The trenched area near L 59+50 E, B.L. 150 N represents a very prominently oxidized and structurally complex area where granodiorite and hornfelsed sediments are in contact. The area is disrupted by an east-west fault as evidenced by tectonic brecciation in the Southern trench and has resulted in significant fracturing and shearing. At least six different fracture directions exist. 4/6 are very tight and 2/6 are wider and contain silicified qtz veins up to 2 cm wide. 1% cpy and Mo are located in tighter fractures for the most part but are periodically observed as weaker mineralization within the qtz veins.

The blasted outcrop on L 68 E - 138 N comprises bi-hb massive granodiorite with coarse euhedral bi xls, at least 4 separate hairline fracture directions exist with a combined estimation of 100 fractures/m<sup>2</sup>. About 10% of fractures are wider (up to 1 cm) and quartz filled. Biotite is oxidizing and imparts a red-brown coloration to outcrop surface.

Some fractures are moderately hematitic and limonitic, with very weak cpy and tr. Mo occurring on some fractures. Very rare white-green sericitic veinlets are observed to contain no sulphides. Most cpy is sheet-like and is more concentrated in areas where radial crystalline chlorite and amphiboles occur. Although the entire outcrop does not contain sulphide mineralization, the best grade mineralization from a representative sample would be tr. Mo and .1% Cu.

Much chainage error has been recorded on this grid. Where chainage error is recognized, the station number as it appears in the field is plotted on this map (e.g. L 56 E meets B.L. 121 N at station 123 N).

The grid lines have been chained at 100 ft intervals to conform to previously existing Granby data. Elevation contours on this plan map are expressed in metres, and accompanying assessment report expresses all numerical data from this grid in the metric system to meet B.C. Mineral Act Regulations 587/77.



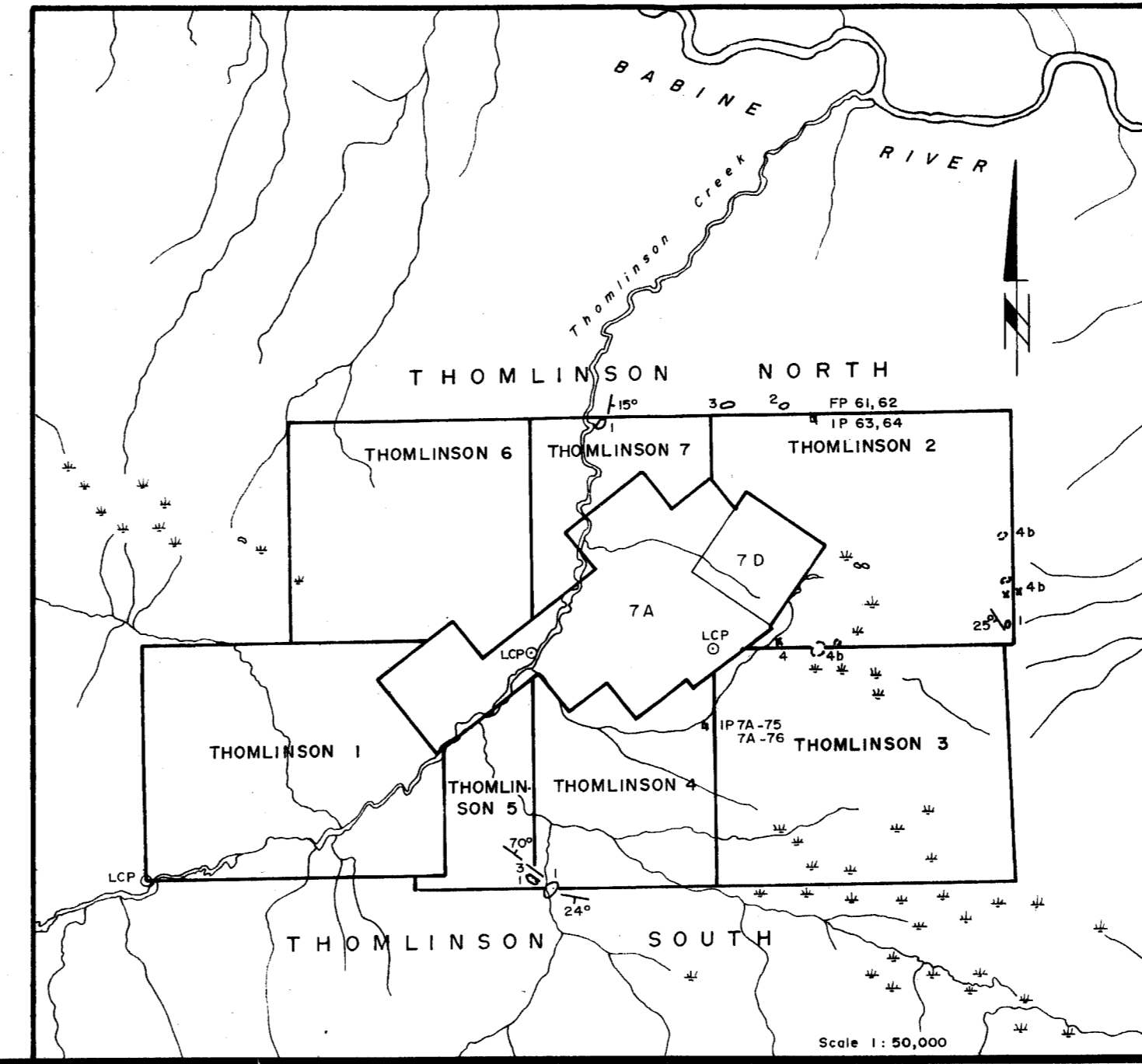
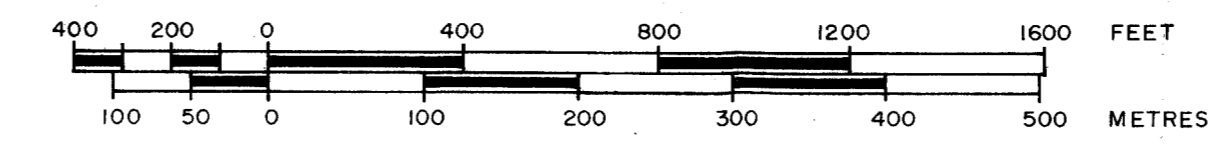
part 2  
of 2  
9787

**LEGEND**

- 4 PORPHYRITIC INTRUSIVE ROCKS.
  - a. Quartz feldspar porphyry, some biotization of mafics, minor chlorite, some feldspars altered to sericite and kaolin.
  - b. Biotite feldspar porphyry; weak localized sericitic and carbonate alteration.
  - c. Quartz feldspar-biotite porphyry; some biotization of mafics; minor chlorite. No significant fracturing, trace Mo, py, cpy, and po.
- 3 BIOTITE-HORNBLende-GRANODIORITE, QUARTZ MONZONITE, AND QUARTZ DIORITE, coarse to medium grained, frequently contains many tight cpy - Mo fracture systems, and occasional cpy - Mo bi-gr quartz veinlets.
  - a. Aplite dyke system.
- 2 HORNFELSED SEDIMENTS, fine grained clay altered and biotized, sandstone, siltstone, shale and conglomerate.
  - a. Frequently hematitic and limonitic along fractures and contains pervasive qtz veining near contact with granodiorite and quartz diorite units.
  - b. Hornfelsed sediments containing unmappable granodiorite and aplite dykes.
- 1 UNALTERED BOWSER GROUP SEDIMENTS, grey-green carbonaceous sandstone, grey-black siltstone, black shale and polymictic conglomerate.

**SYMBOLS**

- Outcrop boundary, defined.
- ⋯ Outcrop boundary, assumed.
- ⋯ Fault, shear or surface linament, inferred from surface investigations and data interpreted from magnetics.
- Joint direction and dip.
- ↘ Strike and dip direction of cleavage, bedding.
- Stream flow direction.
- ⊕ Swamp, and/or lower ground.
- ▲ Talus slope (in some instances, represents frost heaved outcrop or felsenmeer).
- Boulders
- ⊙ Diamond drill hole location, designation, surface projection, and depth.
- x < .1% py, po, cpy, Mo surface mineralization and estimation of abundance.
- Mo | Cu Ag | Au Rock sample site and geochemical results (Mo, Cu, Ag in ppm, Au in ppb)
- 120+95 Grid station identification.
- ⊕ Thomlinson claim post and information recorded from post; Legal corner post; Old claim post: IP - initial post, FP - final post.
- 7A & 7D claim boundary
- THOMLINSON 1 - 7 claim boundary.



|                     |                               |                           |
|---------------------|-------------------------------|---------------------------|
| REVISED             | <b>THOMLINSON CREEK</b>       |                           |
|                     | GEOLOGICAL PLAN               |                           |
| PROJ. No. 1041      | SURVEY BY: S.E.P., L.C., A.W. | DATE: AUG. 1981           |
| N.T.S. 93.M.Z.11.W. | DRAWN BY: E.C.                | SCALE: 1" = 400' (1:1600) |
| DWG. No.            | <b>NORANDA EXPLORATION</b>    |                           |
| FIG. 12             | OFFICE: SMITHERS, B.C.        |                           |