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NORANDA EXPLORATION COMPANY, LIMITED

(No Personal Liability)

SUMMARY REPORT LOUISE LAKE

CLAIM AREA

OMINECA MINING DISTRICT

93L/13E 54°51'33" 127°41'00"

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8710
NO. _____

Part 2 of 2

M.W. Leahey

February 1981

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SUMMARY

This report covers an office compilation, an air photograph interpretation, and the preparation of a base map for a helicopter-borne VLF-EM and magnetometer survey. The survey was flown on October 4, 1980.

1. INTRODUCTION

The Louise Lake claim group is located 32 km west of Smithers. Access is by either float plane or helicopter. The property was acquired by Noranda following the purchase of Granby Mining Corporation properties on November 19, 1979.

The property consists of one claim with four units (Fig.1). Since the ground had been held by a number of companies a decision was made to regionally examine the Louise Lake area centered on the claim. Towards that end a geologic compilation of assessment files and air photos was made of the region.

2. REGIONAL GEOLOGY

The first regional map that included the Louise Lake area was produced by Armstrong in 1944. He considered the area to be underlain by Hazelton Group volcanics being predominantly flows, tuffs and breccia with compositions varying from rhyolite to andesite.

In 1976 the G.S.C. (OF 351) updated this mapsheet on a 1" to 2 mile scale. Tipper divided the rocks into three main units, the oldest being the Jurassic Bowser Lake Group represented by Netalzul volcanics: grey to

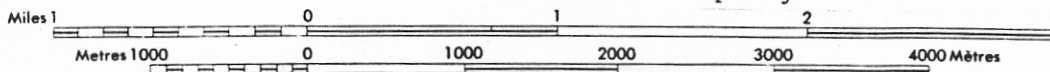


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Fig. 1

Location Sketch

Louise Lake Property



Scale 1:50 000
February 1981

green basalt and andesite tuffs, breccia and flows. This formation stretches south of Louise Lake and east to Hankin Lake. Intrusives on the north side of Louise Lake are Late Cretaceous and Eocene in age and consist of undivided quartz diorite, quartz monzonite and granodiorite, in part porphyritic. Sediments of Cretaceous origin cover a triangular section off the southwest corner of Louise Lake and consist of coarse to fine polymictic conglomerate, greywacke, dark shale and coal.

Structurally the mapsheet is dominated by a large number of normal faults. Few contacts between rock units are unfaulted. One mile south of Louise Lake an east-west thrust fault is shown on Tipper's map.

3. PROPERTY GEOLOGY

Geologic information available from the previous owners of the Louise Lake property is limited. This is in part due to the "hill and valley" nature of the terrain.

The first extensive field work (1970-1971) in the Louise Lake area was by Canadian Superior for Leitch Gold Mine Limited. They undertook reconnaissance soil sampling followed by an Induced Polarization survey which indicated a number of anomalies that were subsequently drill tested. The trend of the strongest I.P. effect, a second moderate anomaly, and sixteen drill holes are shown on Fig. 2. Mineralization consisted of copper, molybdenum and tennantite along fractures and as disseminations. Unfortunately, information as to depth of holes, rock types and mineralization grade is not complete. A property visit to locate the core and relog these drill holes is planned.

Granby Mining Corporation in 1975 acquired the ground and undertook a detailed soil sampling program. Their work outlined a copper anomaly (600 m x 250 m) coincident with the strongest I.P. (Fig. 2). They allowed the ground to come open and restaked it in 1977.

4. AIR PHOTOGRAPH INTERPRETATION

From air photograph B.C. 5481, no. 280 (1" equals $\frac{1}{2}$ mile) a number of primary and secondary linears are readily seen. Figure 3 shows the outlines of these lineaments and curvilinear features for the Louise Lake area. Porphyry deposits are often found at the loci of intersecting structural features.

5. AIRBORNE VLF-EM, MAGNETOMETER

The original flight lines and control points for the airborne survey are shown in Fig. 4, the 1:25 000 base map to be used onboard the helicopter for navigation. The lines are scheduled to be flown true north/south with a separation of 400 m and a mean terrain clearance of 60 m.

The geophysical airborne equipment is maintained and monitored in flight by Noranda Western Division geophysicist, Tom Walker. Specifications and other data on the equipment will be supplied in a separate report on the results of the survey.

Navigation and control tie-ins during the survey will be the responsibility of the writer. A 206 Jetranger, HHA, flown by Highland Helicopter has been contracted to do the flying.

6. REFERENCES

Armstrong, J.E., 1944: Preliminary Map 44-23: Smithers - Coast District
(Scale 1 inch to 2 miles).

Mullan, A.W., 1971, Canadian Superior Exploration: Lou Assessment
Report 2937.

Overstall, R.J., Murphy, J.D., 1970, Canadian Superior Exploration: Lou
Assessment Reports 2697, 2698.

Tipper, H.W., 1976: G.S.C. Open File 351: Smithers, B.C. 93L.

Wilkinson, W.J., James, D.H., 1975, Granby Mining Corporation: Louise
Assessment Report 6105.

APPENDIX I
STATEMENT OF COST

NORANDA EXPLORATION COMPANY, LIMITED

STATEMENT OF COST

PROJECT LOUISE LAKE

DATE January 1981

TYPE OF REPORT

a) Wages:

No. of Days 4

Rate per Day \$98.88

Dates From: Sept. 1 - 19

Total Wages 4 x \$98.88

395.52

b) Food and Accomodation:

No of days

Rate per day \$

Dates From:

Total Cost x \$

c) Transportation:

No of days

Rate per day \$

Dates From:

Total Cost X \$

d) Instrument Rental:

Type of Instrument

No of days

Rate per day \$

Dates From:

Total Cost X \$

Type of Instrument

No of days

Rate per day \$

Dates From:

Total Cost X \$

f) Analysis
(See attached schedule)

g) Cost of preparation of Report
Author
Drafting
Typing

h) Other:

Vancal: Map Reduction from 1:50,000 to 1:25,000
for flight line planning

23.26

Total Cost

\$ 418.78

APPENDIX II
STATEMENT OF QUALIFICATIONS


STATEMENT OF QUALIFICATIONS

I, Michael W. Leahey, of the town of Smithers, Province of British Columbia, do certify that:

1. I have been an employee of Noranda Exploration Company, Limited since May 1973.
2. I am a graduate of St. Francis Xavier University in Antigonish, N.S. with a Bachelor of Science Major in Geology (1973).

Dated at Smithers

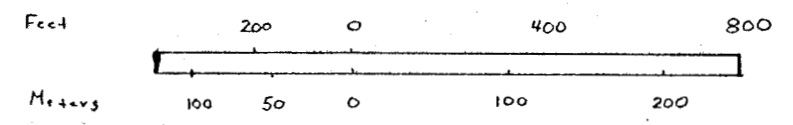
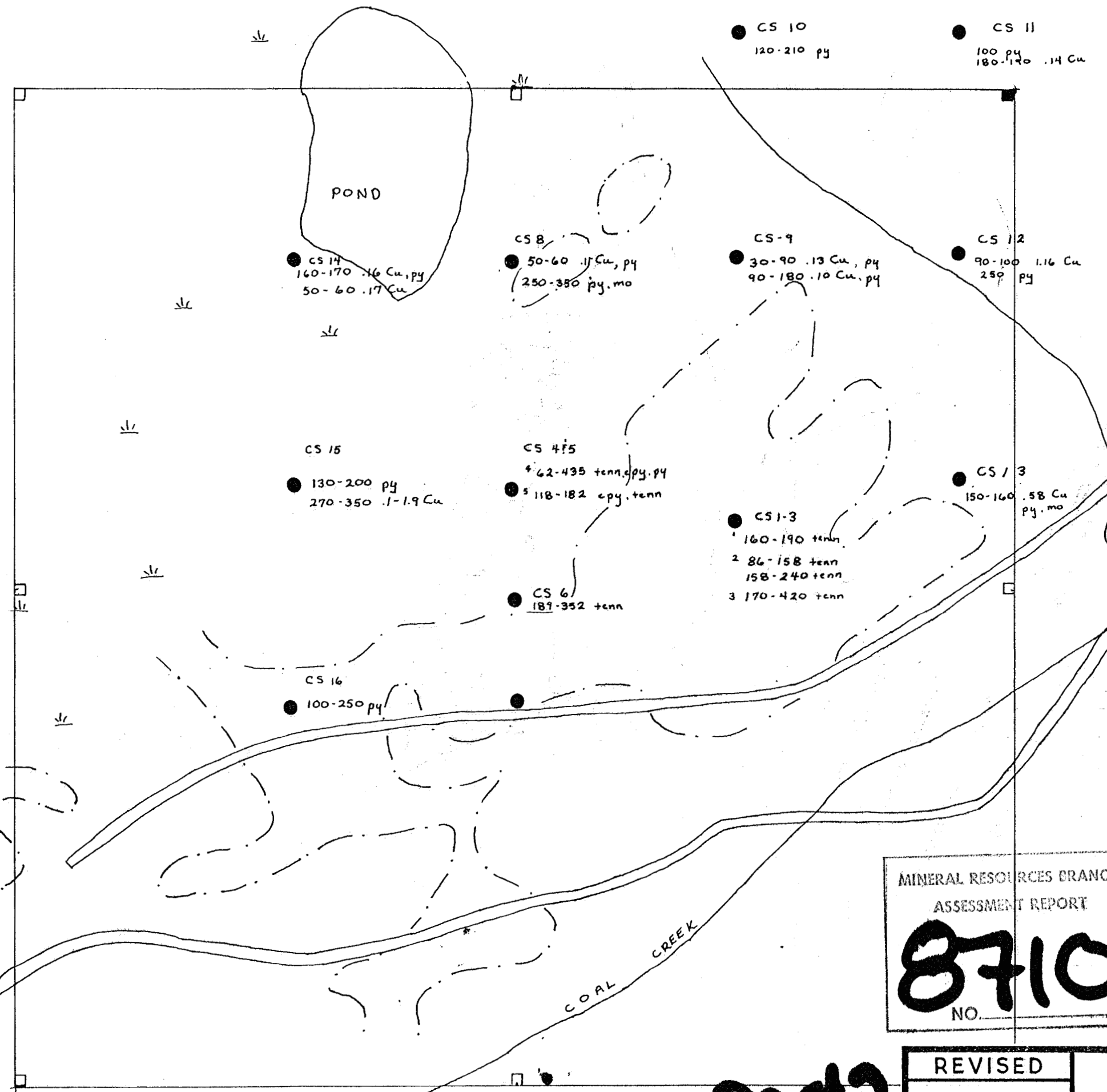
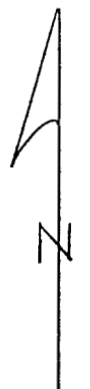
this 7th day of November, 1980


Michael W. Leahey

District Geologist

Noranda Exploration Company, Limited

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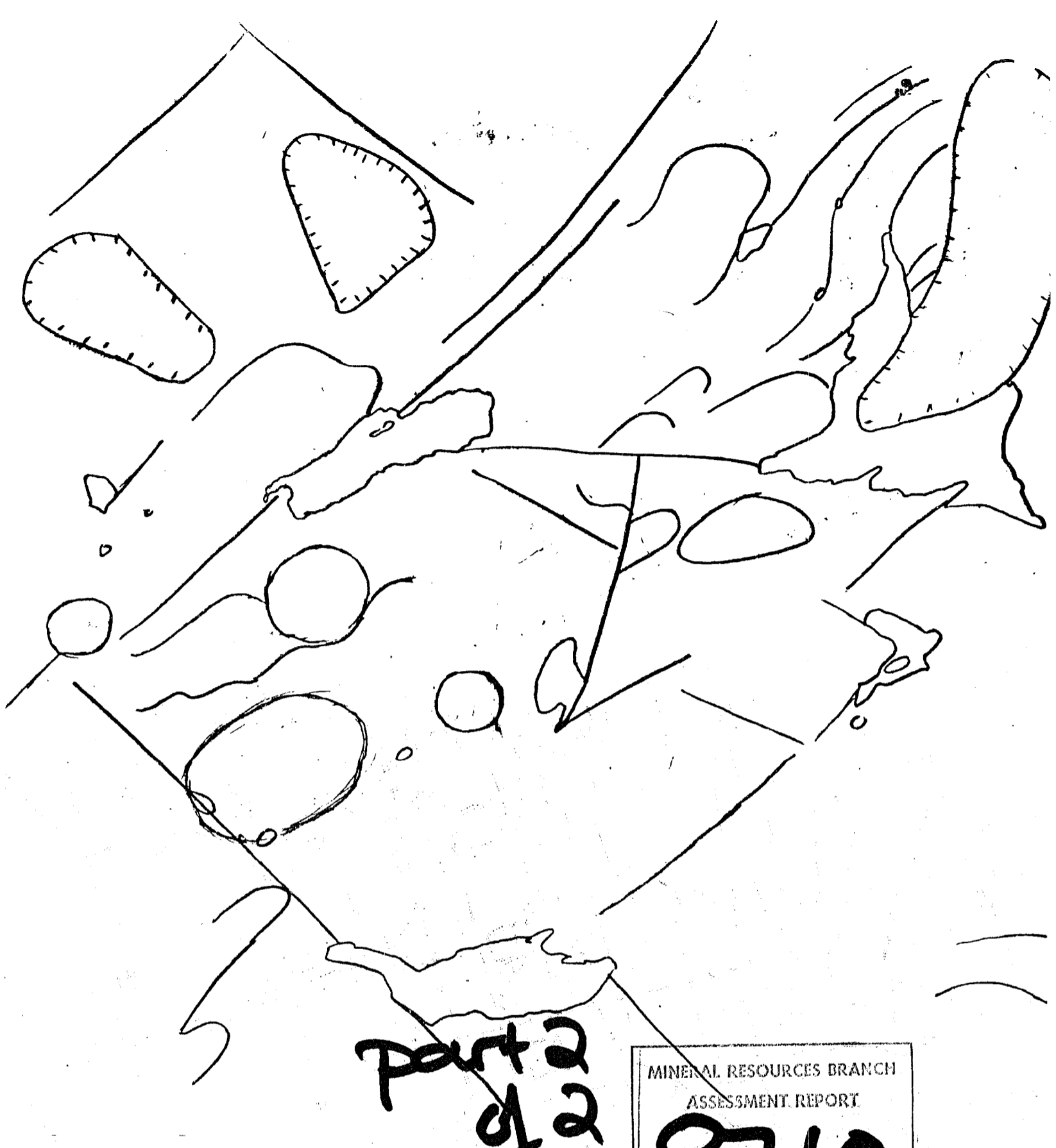


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- ■ claim post, LCP
- - - Granby Cu soil anomaly >100 ppm
- Canadian Superior IP trend
- CS 4 Canadian Superior drill hole #4
62-435 footage of mineralized interval
tenn, cpy, py mineralization tennantite,
chalcopyrite, pyrite





*Part 2
92*

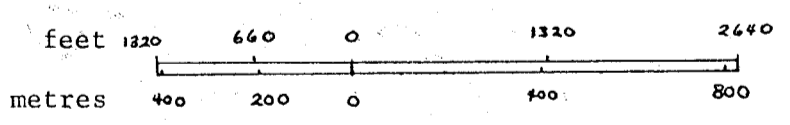
REVISED	COMPILATION MAP	
	PROJECT: LOUISE LAKE	
PROJ. NO	SURVEYED BY:	DATE: Jan. 1981
N.T.S. 93 L. 13 E.	DRAWN BY: M.W. Leakey	SCALE: 1" = 400'
DWG. NO	NORANDA EXPLORATION CO. LTD.	
Fig 2	OFFICE: S.MITHERS	



Part 2
of 2

MINERAL RESOURCES BRANCH
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-  Primary Lineaments
-  Secondary Lineaments
-  Intrusive Structures
-  Curvilinear Feature



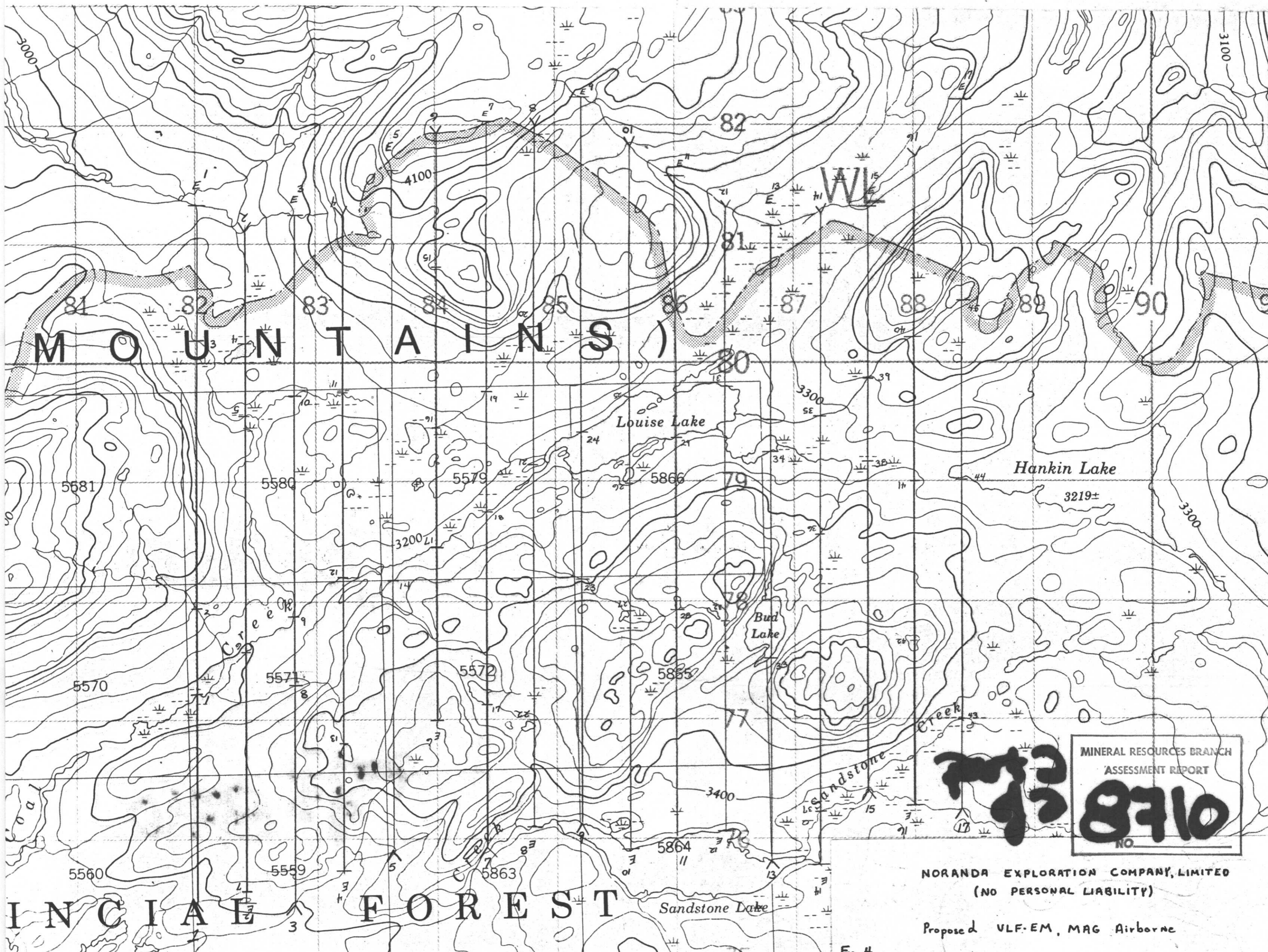
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Airphotograph Interpretation Louise Lake Area

Figure 3 Scale: 1" = 1320'

M.W. Leahey



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Proposed VLF-EM, MAG Airborne

Scale 1:25,000

MW Leakey

Fig 4

