GEOLOGICAL, AND GEOCHEMICAL REPORT ON THE SAL 1 to 11 MINERAL CLAIMS

LOCATED IN THE REVELSTOKE MINING DIVISION AT CO-ORDINATES 51° 11' N 118° 9' W

BY

JOHN E. FISHER (KAMLOOPS)

NORANDA EXPLORATION COMPANY, LTD. (no personal liability)

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NOVEMBER 1981 N.T.S. 82M/1E

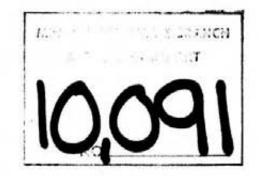


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INTRODUCTION

In mid-December 1980 Noranda Exploration Company, Limited (no personal liability) staked the 11 claim (200 unit) Laforme Creek Property approximately 20 Km north of Revelstoke, B.C.

The property was staked adjacent to the Thanksgiving Claim Group, a tungsten prospect to the north, near the junction of Hathaway Creek and a new portion of the Mica Creek (Dam) Road. The tungsten mineralization there occurs in a garnet-diopside-quartz-scheelite-carbonate skarn and a scheelite-bearing quartz-biotite schist.

No previous work has been done on the Laforme Creek Property.

During late June and into July 1981 Noranda crew members carried out extensive contour soil/silt traverses, as well as a geological survey in order to assess the property.

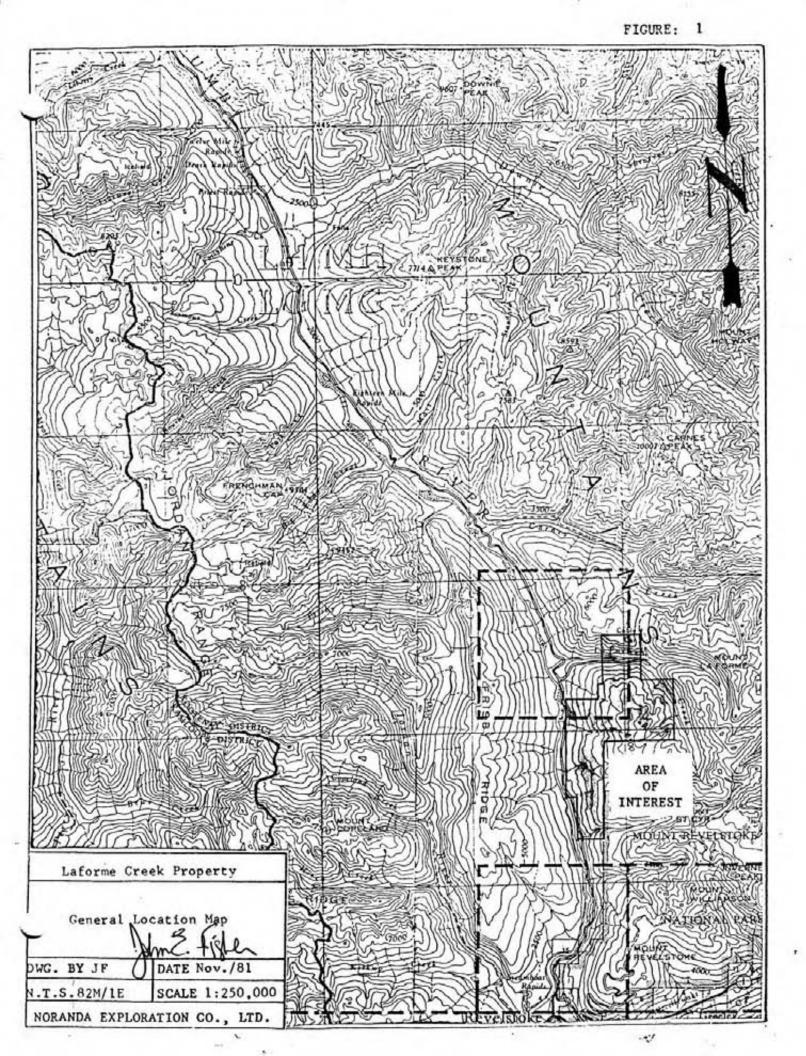
LOCATION AND ACCESS

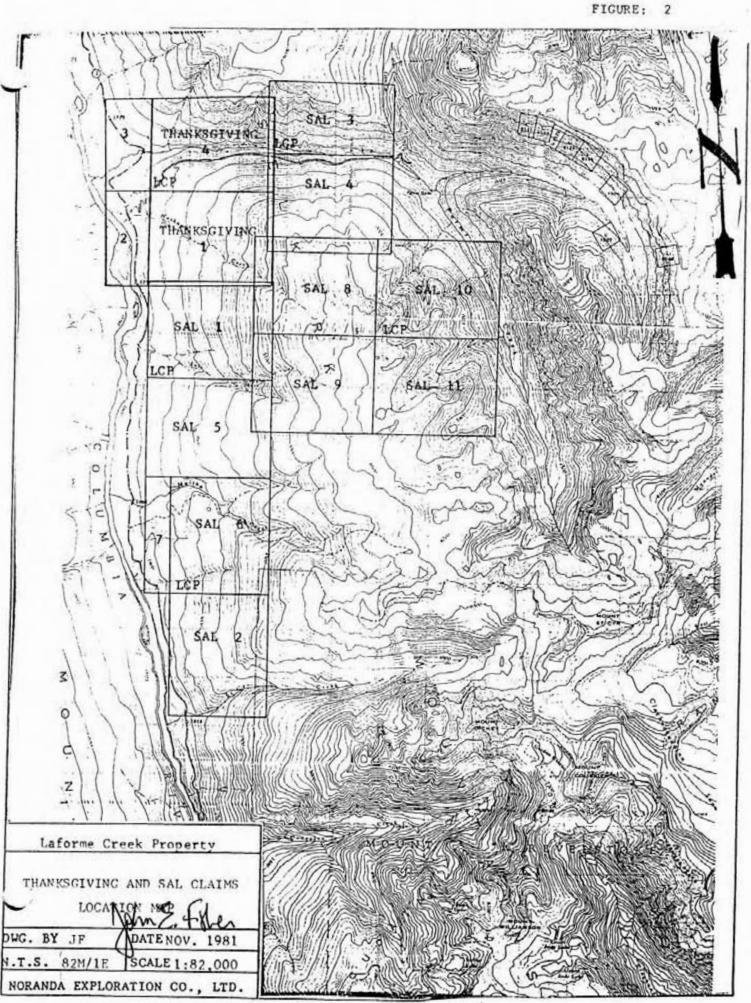
The center of the property lies to the east of the Columbia River, approximately 20 Km (air) at 010° (true) from Revelstoke, B.C. (refer to figure 1). Access to the lower portion of the property is afforded by the recently relocated Mica Creek (Dam) Road from Revelstoke, while two good logging roads lead to the upper elevations.

CLAIMS AND OWNERSHIP

The Laforme Creek Property comprises the SAL 1-11 claims that total 200 units in all (refer to figure 2). The property was staked by Amex Exploration Services Ltd., of Kamloops, B.C. for Noranda Exploration Company, Limited (no personal liability) in mid-December 1980. The property lies within the Revelstoke Mining Division.

CLAIM NAME	RECORD NO.	RECORD DATE	UNITS
SAL 1	09934 1151	Jan 13 198‡	20
SAL 2	09935 1152	"	20
SAL 3	09936-1153	"	15
SAL 4	09937-1154		20





Claims and Ownership Cont'd

CLAIM	NAME	RECORD NO.	RECORD DATE	UNITS
SAL	5	109938 1155	Jan 13 1982	20
SAL	6	-09939-1156		20
SAL	7	-09940 1157		5
SAL	8	09941 1160	Jan 26 1982	20
SAL	9	09942 1161		20
SAL	10	09943 1162	"	20
SAL	11	09944 1163		20

TOPOGRAPHY, CLIMATE & VEGETATION

The claims are located in the Selkirk Mountain Range and occupy an area that varies from gently to moderately sloping hillsides with occasional steep cliff faces. The area is drained by numerous small creeks. most of which make their way to the Columbia River. Elevations range from 488 metres to 2074 metres A.S.L.

Vegetation on the lower levels consists of mature stands of spruce, hemlock, balsam and cedar but sub-alpine and alpine conditions with scrub vegetation and open highland meadows prevail on the upper reaches.

Climate is that of the Interior Rain Belt with temperatures ranging between -15° C and $+30^{\circ}$ C. Annual precipitation averages 1.15 metres, more than half of which falls as up to 6 metres of snow.

GEOLOGY

The property is underlain by a variety of metasedimentary, metavolcanic (?) and intrusive rocks, and is recognized on a regional scale as being on the extreme eastern flank of the Shuswap Metamorphic Complex. (refer to G.S.C. Paper 64-32 by J.O. Wheeler, 1965).

Outcrop on the property is considerable and occurs on cliff faces, in logging road cuts and on isolated knobs and ridges at the higher elevations.

The youngest rock in the area, of possible Jurassic-Cretaceous age, is a coarse-grained quartz-feldspar porphyry.' Phenocrysts of pinkish-orange and white feldspar and quartz occur up to 3cm in length, in a matrix of plagioclase, quartz and biotite. Geology Cont'd

A few scattered plugs of medium-grained granite also outcrop on the property. This rock type is light grey in colour and is composed of quartz, feldspar and approximately 20% hornblende and biotite.

A migmatitic medium-grained hornblende granodiorite is also in evidence in isolated areas.

The remainder of the property is underlain by a variety of finegrained metamorphic rocks including:

1. granitic gneiss

2. quartz-chlorite gneiss

3. biotite gneiss

4. micaceous quartzite

Other than in a few instances, the foliation within these rocks generally trends northwesterly.

No evidence of economic mineralization was encountered on the property.

GEOCHEMICAL SURVEY

Introduction

Extensive contour soil/silt traverses were carried out over most of the property. Samples were collected at 200m intervals and lines run every 500 vertical feet. Suitable creeks were sampled whenever encountered on these traverses.

In all a total of 336 samples were taken over the property.

All samples were analysed for ppm zinc, lead, silver, copper, molybdenum and tungsten in the Noranda Exploration Company, Limited laboratory at 1050 Davie Street, Vancouver, B.C. Analyst was R. Fenton.

Method

All soil samples were obtained by digging holes with a mattock to a depth of between 15cm and 40cm, where the visible "B" horizon, whenever possible, was exposed. Silt samples were taken from the active part of the stream wherever possible. The samples were placed in "Hi" Wet Strength Kraft envelopes, the sample number was marked on the envelope in indelible ink and the station marked using coloured flagging. The samples were dried, then shipped, and screened and sifted to obtain the -80 mesh fraction.

Geochemical Survey -- Method Cont'd

The determination procedure for total copper, lead, zinc, silver, molybdenum, is as follows:

0.200 grams of the -80 mesh material is digested in 2ml of $HClO_4$ and 0.5ml of HNO_3 for approximately 4 hours. Following digestion, each sample is diluted to 5ml with demineralized H_2O . A Varian Techtron Model AA-5 Atomic Absorption Spectrophotometer was used to determine the parts per million (ppm) of each element in each sample.

The theory of the Atomic Absorption Spectrophotometer is fully outlined in the literature and will not be described in this report.

The determination procedure for total tungsten is as follows: 1.0g sample of the -80 mesh material is sintered with carbonate flux and is leached with water. The leachate is treated with KSCN. This forms a yellow tungsten thio-cyanate which is extracted into tri-n-butyl phosphate. This permits colourimetric comparison with a standard series to ca 4 ppm (after F.N. Ward, 1963).

PRESENTATION OF RESULTS

Results of the soil/silt surveys are presented in drawings 2,3,4 and 5 of this report. These plan maps, at a scale of 1:20,000, indicate sample number and type, and geochemical analysis at each sample site.

DISCUSSION OF RESULTS

In general results from the geochemical survey were unencouraging especially with respect to copper, molybdenum and silver. The survey has outlined, however, a number of areas of tungsten and lead-zinc responses that warrant some further consideration.

These areas are as follows:

Tungsten (refer to drawing 5)

- Northwest corner of the Sal 8 claim upslope from an anomaly of 70 ppm.
- Central portion of the Sal 6 claim between the 3000' and 3500' contour lines.
- Extreme northeast corner of the Sal 2 claim in the vicinity of the 4500' contour level.

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Discussion of Results---Tungsten Cont'd

- Gentral portion of the Sal 2 claim between the 3000' and 3500' contour levels where a number of weakly anomalous values occur.
- 5. Gentral portion of the Sal 7 claim.
- East half of the Sal 10 claim upslope from a few weak silt sample anomalies.

Others (refer to drawing 3)

- ½ Km north of the Sal 2,6 and 7 legal corner post where anomalous zinc and lead reponses occur.
- Zinc anomaly that stretches for 1½ Km along the 2000' contour south of Sale Creek.

CONCLUSIONS AND RECOMMENDATIONS

There still remain a number of areas of potential interest on the Laforme Creek Property not fully assessed this past field season, due largely to restraints on time.

It is recommended that detailed soil and silt sampling and prospecting be carried out in the vicinity of the aforementioned geochemical anomalies. Ground magnetometer and VLF-EM surveys might also be completed in a few of the areas. Any areas deemed favourable as a result of this work should be trenched in order to access them further.

It is also suggested that contour traverses be carried out over portions of the property not covered this year, specifically the Sal 8 and Sal 9 claims, and that geological mapping be continued.

As well, night-lamping could be carried out, concentrating initially on the Sal 1,4 and 8 claims.

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APPENDIX I

Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, John Edward Fisher of the Town of Beaverton, Province of Ontario, do certify that:

- I have been employed as a geologist by Noranda Exploration Company, Limited since June, 1981.
- I am a graduate of Queen's University with a Bachelor of Science in Geology. (1981)

Am E.

John Edward Fisher, B. Sc. Geologist, Noranda Exploration Company, Limited (no personal liability)

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APPENDIX II

Statement of Cost

NORANDA EXPLORATION COMPANY, LIMITED

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STATEMENT OF COST

PROJECT LA FORME	DATE NOVEMBER 27, 198	1
TYPE OF REPORT GEOLOGY & GEOCHEM		
obsolution of choosen		
a) Wages:		
No. of Days 66		
Rate per Day \$ \$8,1107		
Dates From: January 1, 1981 -	October 31, 1981	
Total Wages 66 x \$ 58.110	3,835.31	
b) Food and Accomodation:		
No of days 66		
Rate per day \$ 63.8715		
Dates From: January 1, 1981 -	October 31, 1981	
Total Cost 66 × \$ 63.871		
c) Transportation:	£	
No of days 66		
Rate per day \$ 98.2436		
Dates From: January 1, 1981 -	October 31, 1981	
Total Cost 66 X \$98.2436		
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 \$		

116.22
. 191.41
116.22

h) Other:

\$16,672.36

Total Cost

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.e) Unit costs for

No of days 66 No of units Unit.costs 92.407 / day Total Cost 66 × 92.407 6,098.89 Unit Costs for Geochem No. of Units 336 Samples Unit Costs 31.4687/Sample

Geology

Total Cost 336 X \$31.4687 10,573.47

\$16,672.36

NORANDA EXPLORATION COMPANY, LIMITED (WESTERN DIVISION)

DETAILS OF ANALYSIS COSTS

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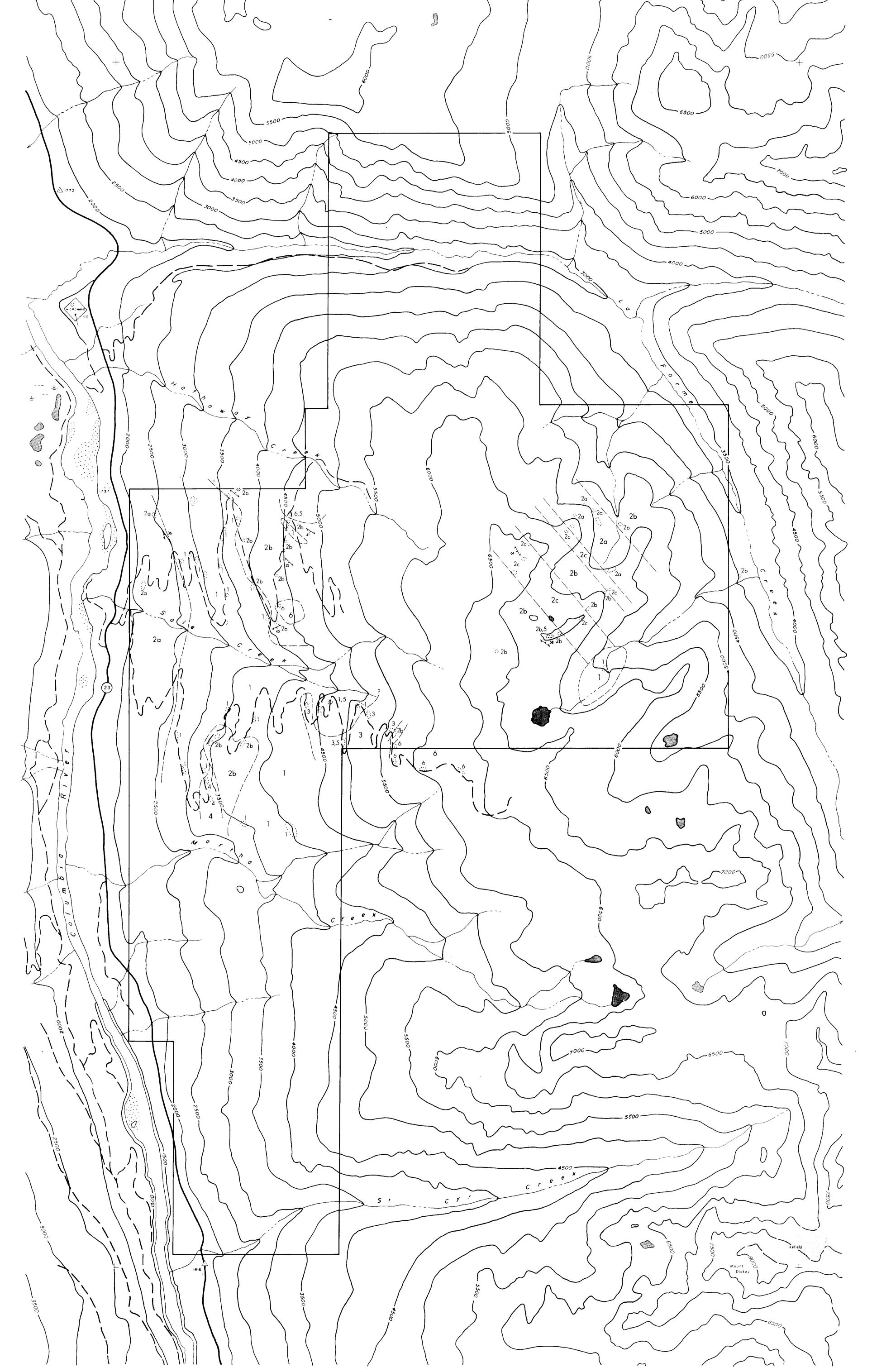
PROJECT:	LA FORME CH	REEK	
ELEMENT	NUMBER OF DETERMINATIONS	COST PER DETERMINATIONS	TOTAL
Cu	336	1,50	504.00
Pb	336	60	201_60
Zn	336		201.60
Mo	336		
Fe	336		201.60
Ag	336	.60	201.60
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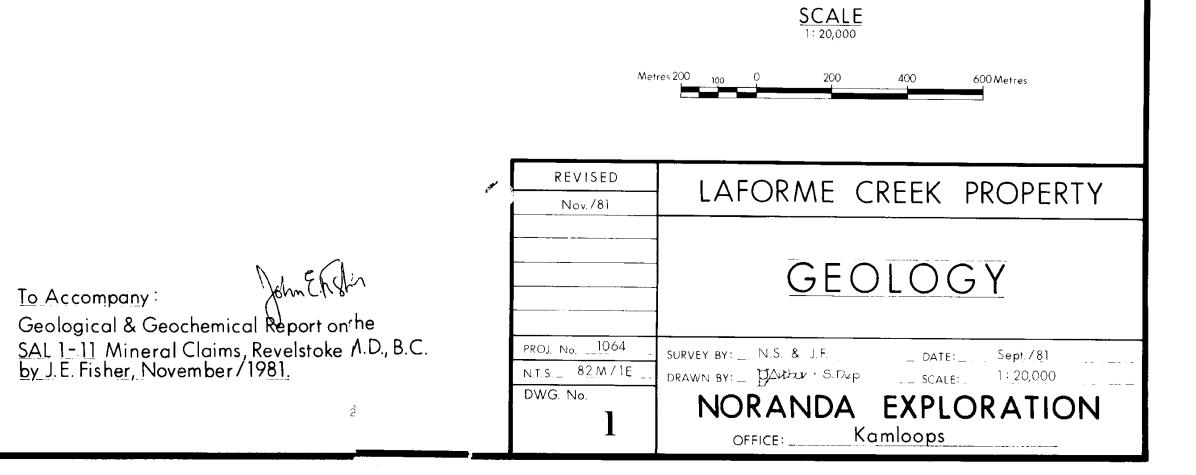
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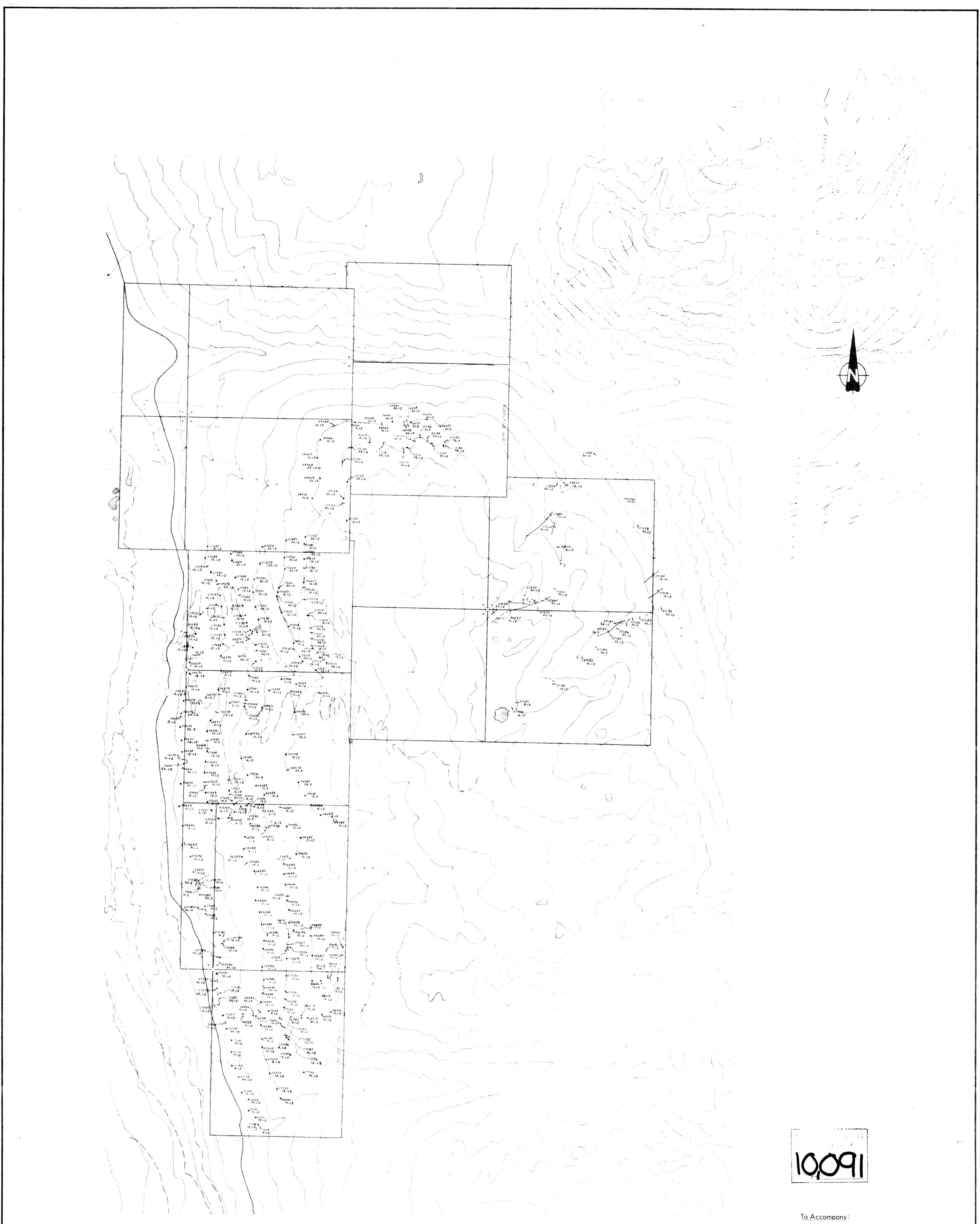
legend

<u>Rock Types</u> Jurrassic - Cretaceous? Quartz - Feldspar Porphyry : coarse grained Proterozoic 1 2 Metasedimentary Rocks 2a Chlorite - Quartz Gneiss 2b (Quartz) Biotite Gneiss – Schist 2c Micaceous Quartzite 3 Migmatitic Biotite - Hornblende Granodiorite : frequently foliated 4 Granitic Gneiss 5 Pegmatite Dykes 6 63 — Granite Symbols Outcrop Foliation and Geological Contact : defined,assumed /--- \sim Road

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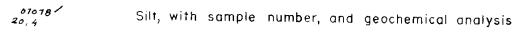
<u>To Accompany</u>:



Geological & Geochemical Report on the SAL 1-11 Mineral Claims, Revelstoke M.D., B.C. by J.E.Fisher, November/1981.



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<u>O</u>YMBOL S

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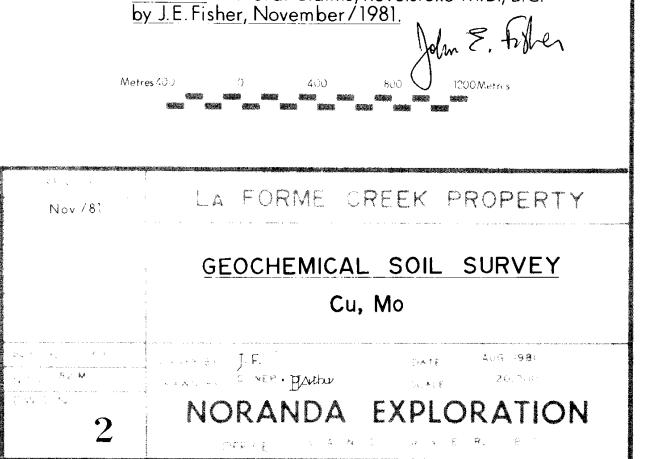
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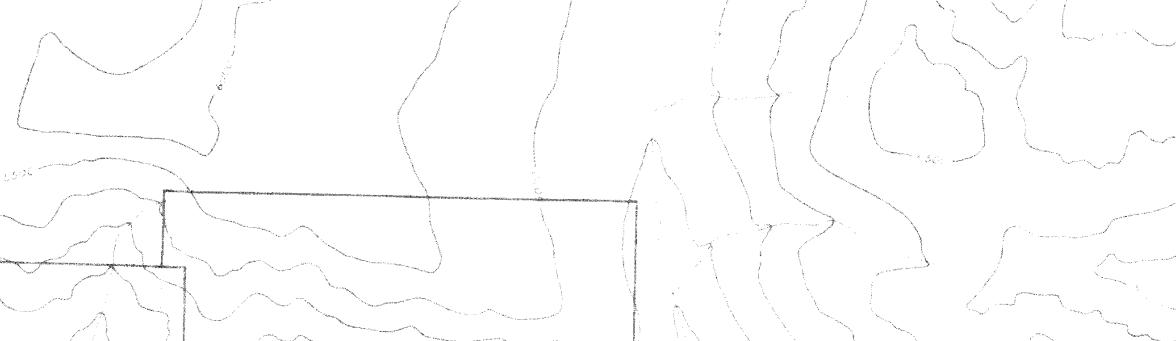
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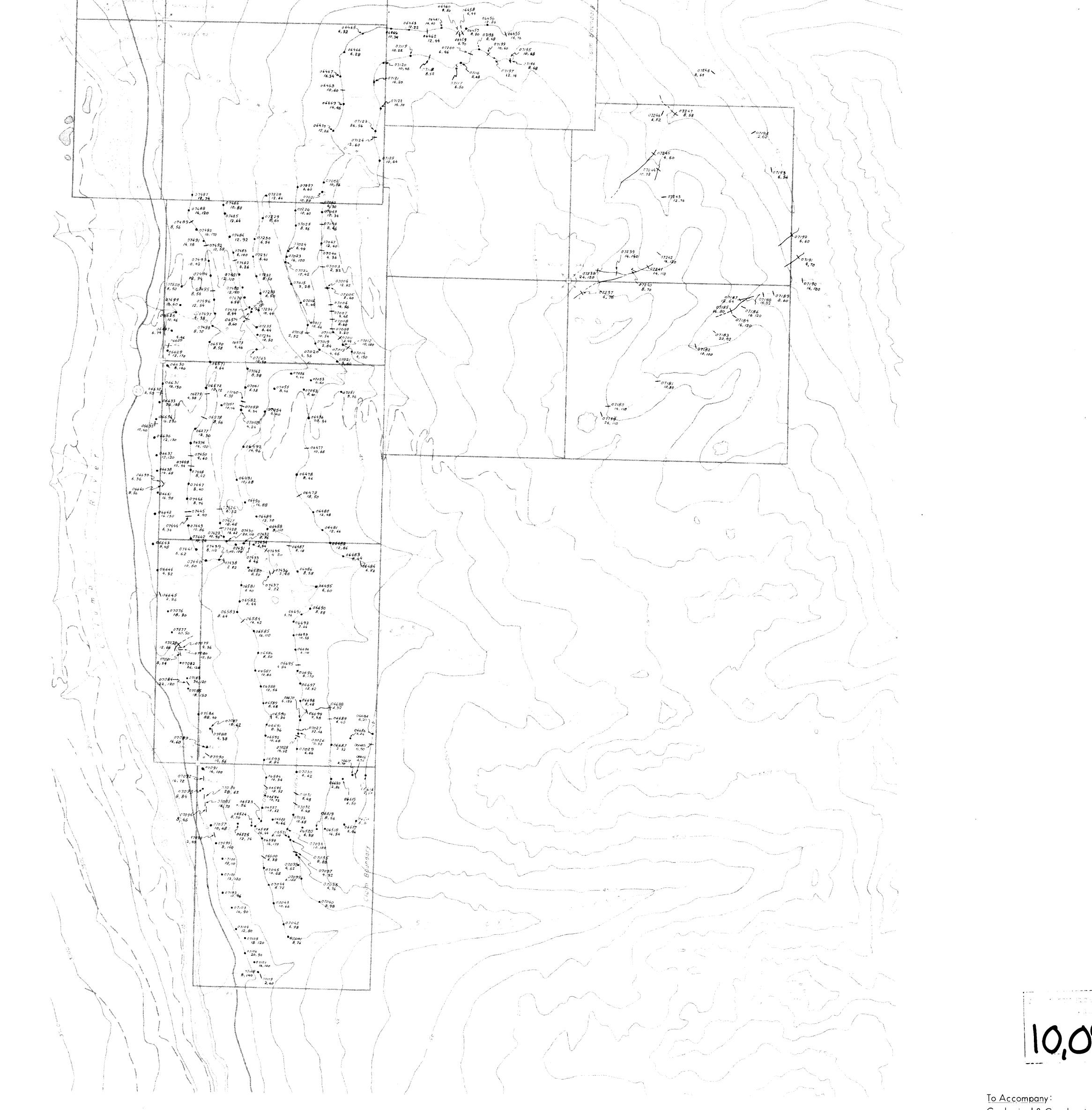
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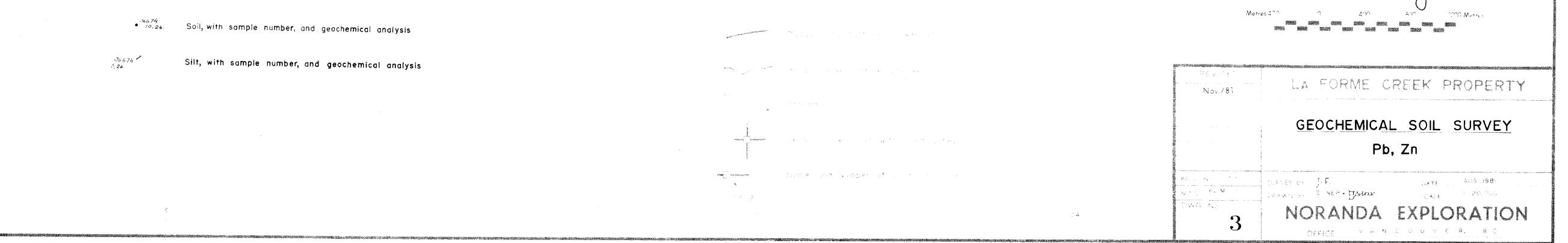


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Geological & Geochemical Report on the SAL 1-11 Mineral Claims, Revelstoke M.D., B.C. by J.E.Fisher, November/1981.

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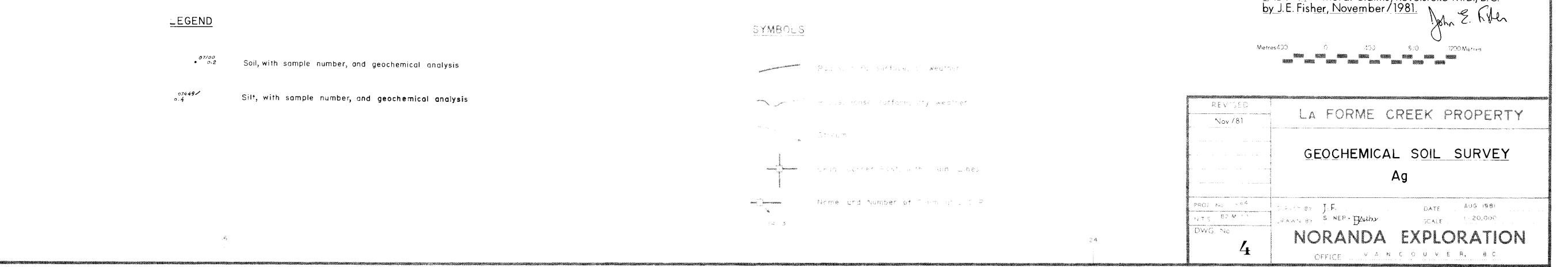


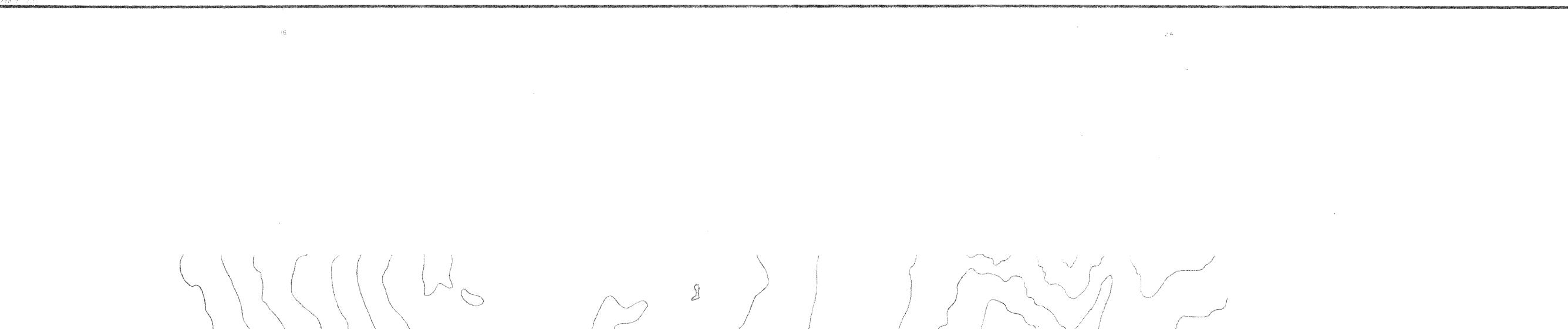
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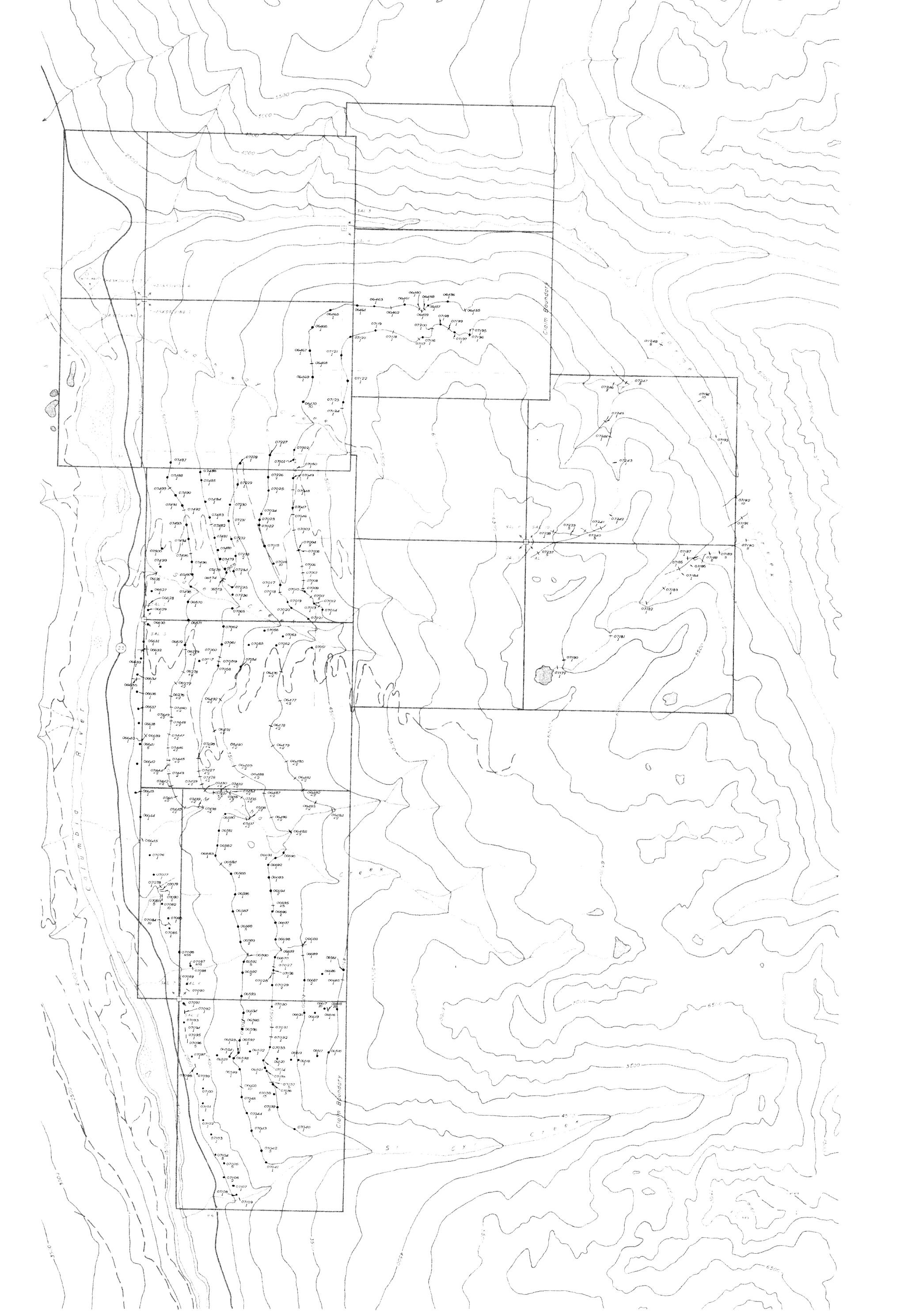


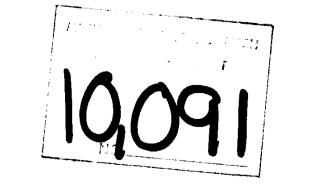
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Geological & Geochemical Report on the SAL 1-11 Mineral Claims, Revelstoke M.D., B.C. by J.E. Fisher, November/1981.









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<u>To Accompany</u>:



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Soil, with sample number, and geochemical analysis

Silt, with sample number, and geochemical analysis

