

84-#797-12942

6/85

1984 Assessment Report

Geochemical Survey

Title: Madison Group

Claims: Argenta, Great Eastern, Legal Tender,
Madison

Location: One km NE of Sandon - Mount Payne
82F/14E Slocan M.D.
49° 59'N 117° 12.5'W

Author L. Sookochoff, P.Eng.
and Sookochoff Consultants Inc.
Consultant: 311-409 Granville Street
Vancouver, B.C. V6C 1T2

Owner and George Nakade
Operator: Grand Forks, B.C. VOH 1H0

Dates of Field
Work: June 24, 1984 - June 28, 1984

Date of Report: September 20, 1984

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,942

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1984 Assessment Report
Geological and Geochemical Survey
on the
Sandon Property

INTRODUCTION

In June 1984, a field exploration program of geological and geochemical surveys were completed on four contiguous reverted crown grants under present ownership of George Nakade of Grand Forks, B.C. The surveys were undertaken in order to delineate potential areas of economic mineralization.

The property is located within the historic Sandon Mining Camp which was the center of production of silver, lead-zinc from the 1890's into the 1920's.

PROPERTY

The property is comprised of five contiguous reverted crown grants. Particulars are as follows:

<u>Claim Name</u>	<u>Lot No.</u>	<u>Record No.</u>	<u>Expiry Date*</u>
Argenta	1412	4052	July 15, 1988
Great Eastern	2289	4049	July 15, 1988
L.D. Fraction	1749	4051	July 15, 1988
Legal Tender	"	"	"
Madison	1411	4050	July 15, 1988

*Upon the approval of four years assessment work applied June 28, 1984 which this report forms a part thereof.

LOCATION, PHYSIOGRAPHY AND ACCESS

The property is located one km northeast of Sandon B.C. and within 500 meters north of Carpenter Creek on the south facing slopes of Mount Payne.

The Silvana Mine of Dickinson Mines Ltd. is within one km south of the property. The concentration plant for the mine is located at Sandon.

In addition the property is within one km southeast of Hallmac Mines' Ltd. high grade silver mine and adjacent and west of Wavecrest Resources property holdings of many past producers.

Steep forested slopes prevail with elevation of up to 1980 meters at the northern boundary from 1210 meters at the south along the Carpenter Creek Valley.

Access is provided by gravelled secondary road from Sandon for one km eastward which passes within 200 meters of the lower claim boundary. A poor secondary pack trail road extends northeastward through the property. The lower sections have been upgraded in the past and would require only a minimal amount of work to reopen.

CLIMATE

The area is within a relatively heavy snowfall belt where the property may be snow free for only seven months. However, snowfall or inclement weather conditions should not hamper underground work. The road from Highway 31 for six km to Sandon is maintained year round, providing near access to the property throughout the year.

TRANSPORTATION AND SUPPLIES

The highway from Three Forks to Trail, a distance of 125 km is paved and maintained throughout the year.

Most supplies could be purchases in New Denver or Trail.

Castlegar, 32 km north of Trail is served daily by commercial airlines from Vancouver.

HISTORY

The property area, adjacent and north of the Sandon Mining camp contains many former producers.

The Sandon area was the center of production of silver-lead-zinc ores and contributed half the entire output of silver and lead in the Slocan Mining Division. Exploration and mining commenced in the 1890's with the height of activity lasting into the 1920's. With the oncoming depression period, production gradually subsided in rasion to a declining metal market to where only sporadic production was recorded.

Dickenson Mines Ltd. Silvana property, within one km to the southwest of the Madison claim group was the only substantial continuous producer in the area. The concentrator is located in Sandon. The operation was recently terminated due to economic conditions.

As the Madison Group of claims had been crown granted, exploration work was probably carried out, however documentation is not available. Exploratory workings are known of within 150 meters west of the Madison claim in addition to numerous workings to the east.

In June 1984 a geochemical and geological survey was completed on the Madison Group of claims.

REGIONAL GEOLOGY

The dominant rocks of the Sandon area are of the Slocan sediments of Triassic age. They are cut by granitic dykes and by small stock like masses closely related to the intrusion of the Nelson batholith.

The sediments include argillite, quartzites and limestones and every admixture of these as well as some tuff. They are characteristically nonslaty and have been subjected only locally to thermal metamorphism. There has been local silicification, particularly of limestone.

Intrusive rocks as dykes, sills and stock like bodies are widespread throughout the whole district. These intrusives are considered to be related to but somewhat younger than the main intrusion of the Nelson batholith.

Most of the intrusives are locally termed porphyries with some classified as a "birds-eye" porphyry. Well developed porphyritic texture however is not characteristic of the dykes and sills.

Many intrusive sheets are sill-like and follow the bedding more on strike than on dip.

The regional northwesterly trending recumbent Slocan fold is a composite structure of complex asymmetrical and overturned folds which are in part brickled and/or folded. From a central zone of no plunge from the Silverton area, northeasterly to north of Sandon and to Retallack, the plunge is northeasterly in the north and southeasterly to the south.

A northeasterly trending belt of slate designated as the Payne slate belt extends from the vicinity of Cody across Payne Mountain to Three Forks is interpreted in part as a shear zone along which adjustment took place.

Lodes or structures known to be mineralized include the Payne Lode which crosses the ridge extending northwestward from Payne Mountain. The Payne mine on a portion of the Payne Lode is developed by seven adits to a depth below the outcrop of 1450 feet. The main oreshoot averaged 1000 feet long with a maximum length of 1250 feet. The lode crosses a variety of rocks which are all somewhat slaty. The slate is best developed on the Carpenter Creek slope.

The lode dips steeply to the southeast and is reported to have carried a paystreak of an inch to eight feet of galena averaging 4 to 6 inches. Bands of siderite and sphalerite make up the remainder of the lode filling. The Payne produced some five million ounces of silver, 50 million pounds of lead and two million pounds of zinc.

PROPERTY GEOLOGY

The geology as described by J. Robins, geologist is as follows:

The four claims are almost entirely underlain by sedimentary rocks, predominantly shales and graphitic phyllites with minor horizons of quartzites. The rocks generally strike NW/SE and are commonly folded.

Intruding the sediments are porphyry dykes which may contain large white feldspar phenocrysts or a combination of smaller biotite and feldspar phenocrysts.

Two distinct fault/shear zones are evident on the property. These tend to strike approximately NNE/SSW and are roughly subvertical. The old adit on the Argenta claim follows one of these faults along a graphitic shear zone.

MINERALIZATION

Mineralization is primarily disseminated pyrite in minor (<1%) amounts, generally occurring along the bedding planes of the shales and phyllites. In one location on the Argenta claim (station S-11) some semi massive Pb, Zn, Ag was found along an old road cut.

GEOCHEMICAL SURVEY

A grid of four east west lines 300 meters apart was utilized in the soil sampling. Samples were taken at 25 meter intervals along the grid lines. At these stations samples were selected from the B horizon of a brown forest soil at a depth of commonly 30 cm. The samples were placed in brown wet-strength paper bags marked with the appropriate grid coordinates.

The samples were tested by Acme Analytical Laboratories of Vancouver, B.C. In testing, the sample is thoroughly dried, sifted through a -80 mesh screen and a measured amount placed into a test-tube. Hot aqua regia is then added and diluted with water. The samples were analyzed for five metals - lead, zinc, arsenic, copper and silver.

In assessing the data results, the mean background value, subanomalous and anomalous values were determined utilizing pocket calculator with a mean value and standard deviation read out. The subanomalous values are considered as one standard deviation from the mean with the anomalous as two standard deviations.

The results are as follows:

<u>Mineral</u>	<u>Background</u>	<u>Sub Anomalous</u>	<u>Anomalous</u>
Arsenic	31	68	105
Zinc	595	1251	1909
Lead	41	81	121
Copper	78	162	246
Silver	1.9	3.9	5.9

RESULTS OF THE GEOCHEMICAL SURVEY

The results of the geochemical survey indicated one prime anomalous area along the eastern portion of Line 900N from 0W to 500W. Substantial silver values of up to 118.8 ppm in a background of 1.9 Ag with significant lead values of up to 9382 ppm and equally high zinc values of up to 4351 ppm and arsenic values of up to 746 ppm are correlative over a 500 meter interval. This zone is within an area indicated to be underlain by quartzite and phyllite and appears to be cut off to the west by a northerly trending fault zone.

A significant one station correlative silver-lead anomaly at L00N 700W also warrants investigation. The silver value of 10.3 ppm and lead of 1672 ppm indicates bedrock mineralization.

An area of anomalous lead values with above background silver and zinc values also on line 00N at 425W to 525W should be investigated.

CONCLUSIONS

A significant correlative geochemical anomalous zone extending for up to 500 meters in an area of quartzites and phyllites strongly suggests a mineralized structure in the area. With the substantial lead, zinc and silver values a lode may be associated with the Payne to the northwest where substantial production is documented.

The anomalous zones along the southern boundary could indicated similar lode zones in a more heavily overburdened area.


The old adit zone to the east of the property boundary is probably the adit reported to be contained within the bounds of the property. If so, then the property as indicated on Figure 9 should be shifted 1500-200 meters to the west and thus would place a portion of the L900N anomaly off the property.

RECOMMENDATIONS

It is recommended that a detailed geochemical program be completed within the delineated correlative anomalous areas. In addition the old adit area should be examined and the area geochemed to trace the mineralized zone.

The phyllitic-porphyry dyke contacts should also be investigated for potential mineralized zones (i.e. southwest corner of mapped area S-11) The fault-porphyry-phyllite intersection should also be examined for prime mineral zones.

Respectfully submitted

A circular professional seal for Lawrence Spokochoff, P.Eng. The seal contains the text "PROFESSIONAL ENGINEER", "C.P.", "LAWRENCE SPOKOCHOFF", and "BRITISH COLUMBIA". The seal is stamped over a handwritten signature.
Lawrence Spokochoff, P.Eng.

September 20, 1984
Vancouver, B.C.

BIBLIOGRAPHY

- ROBINS, J. - Notes on the geological and geochemical program - Sandon project June, 1984
- HEDLEY, M.S. - Geology and Ore Deposits of the Sandon and Slocan Mining Camps British Columbia, Bulletin No.29, B.C. Dept of Mines, 1952.

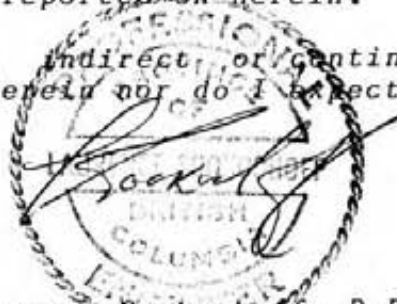
CERTIFICATE

I, Laurence Sookochoff, of the City of Vancouver, in the Province of British Columbia, do hereby certify:

That I am a Consulting Geologist with offices at 311-409 Granville Street, Vancouver, B.C., V6C 1T2.

I further certify that:

1. I am a graduate of the University of British Columbia (1966) and hold a B.Sc. degree in Geology
2. I have been practising my profession for the past eighteen years.
3. I am registered with the Association of Professional Engineers of British Columbia.
4. The information for this report was obtained from sources as cited under bibliography and from supervision of the exploration program reported on herein.
5. I have no direct, indirect, or contingent interest in the property described herein nor do I expect to receive any.



Laurence Sookochoff, P.Eng.
Consulting Geologist.

September 20, 1984
Vancouver, B.C.

G. Nakade

Madison Group

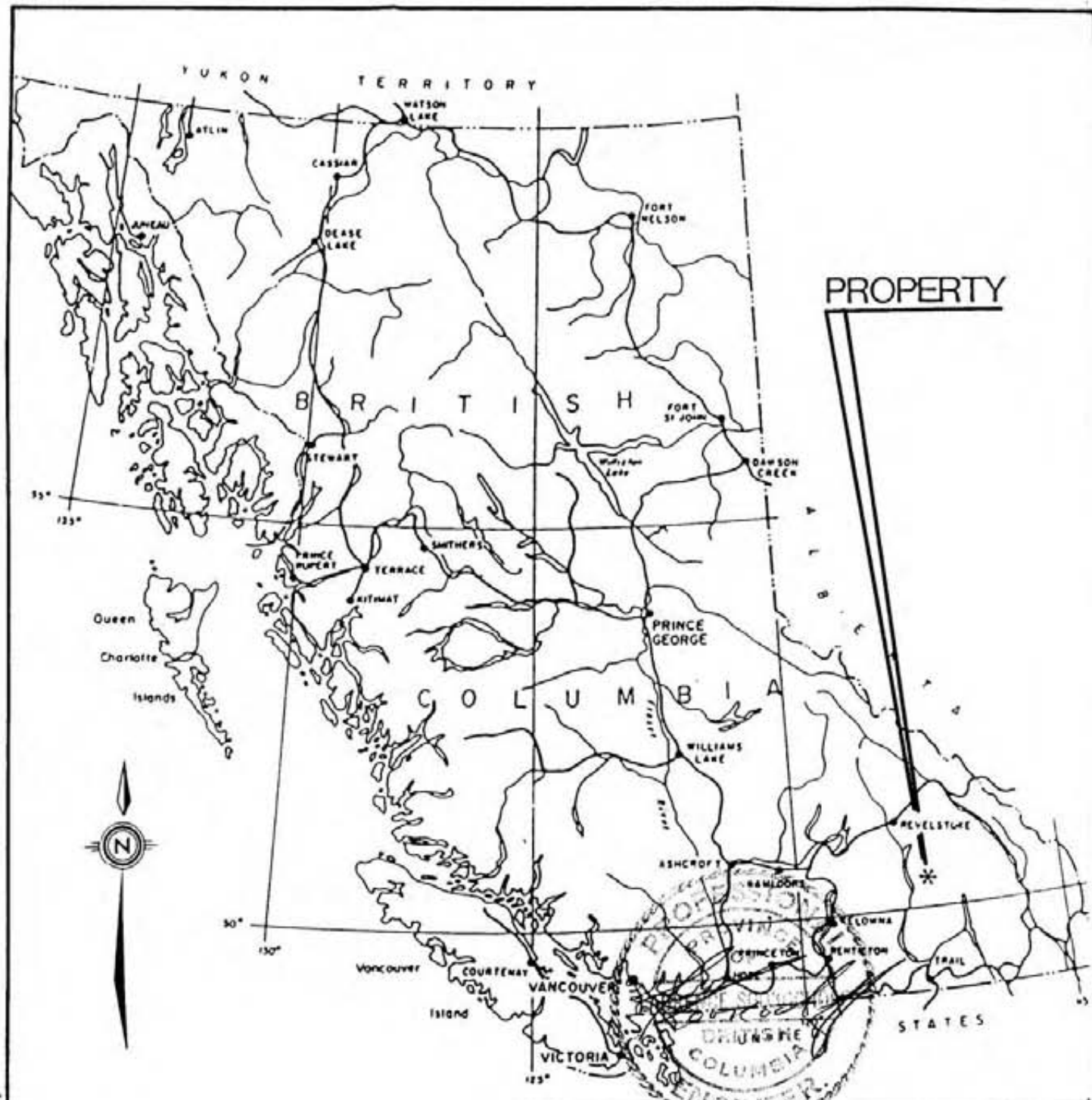
1984 Assessment Report

Geochemical Survey

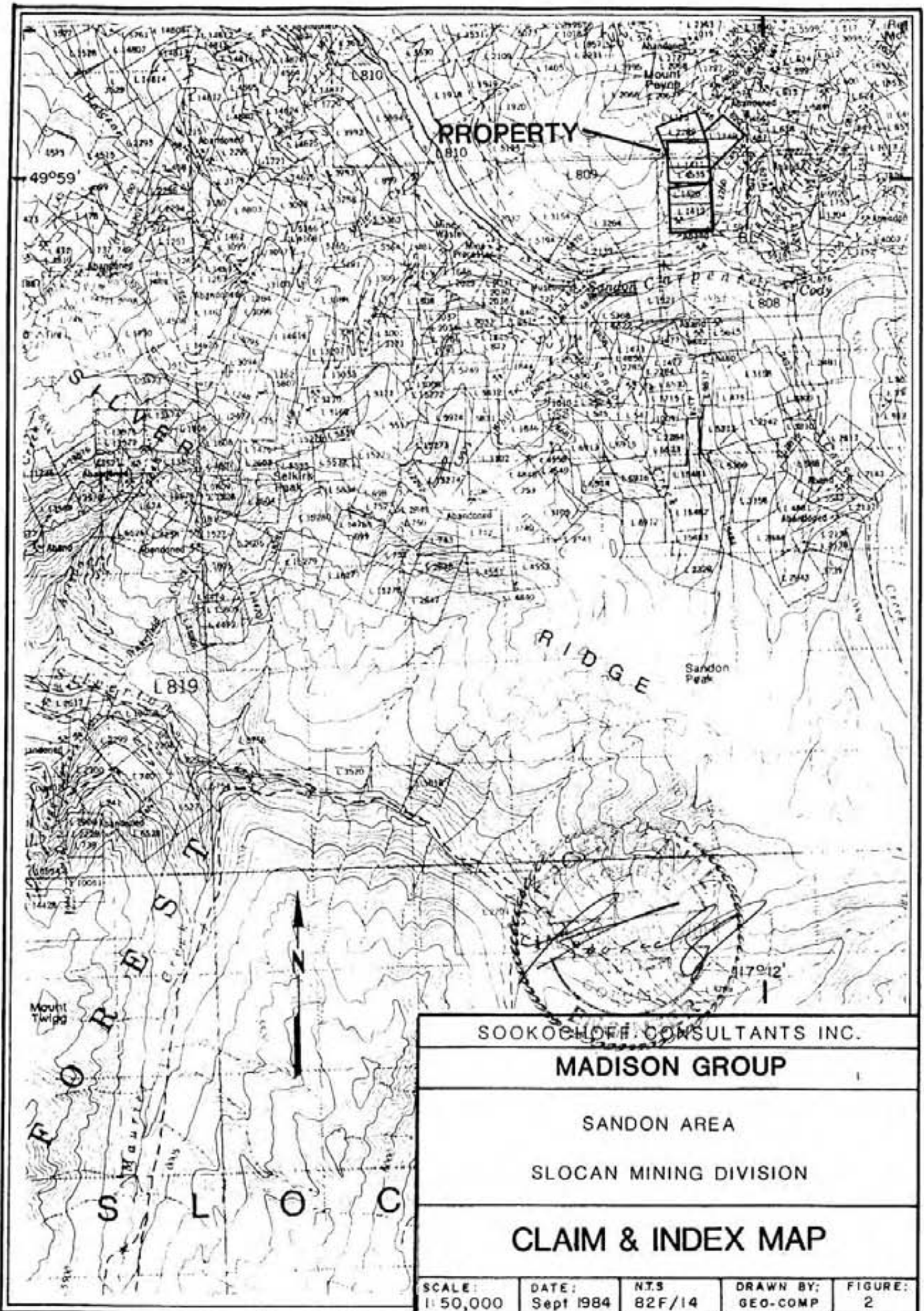
Statement of Cost

The fieldwork of the geological and geochemical surveys were carried out on the Madison Group, Slocan M.D., B.C. from June 24-28, 1984 to the value of the following:

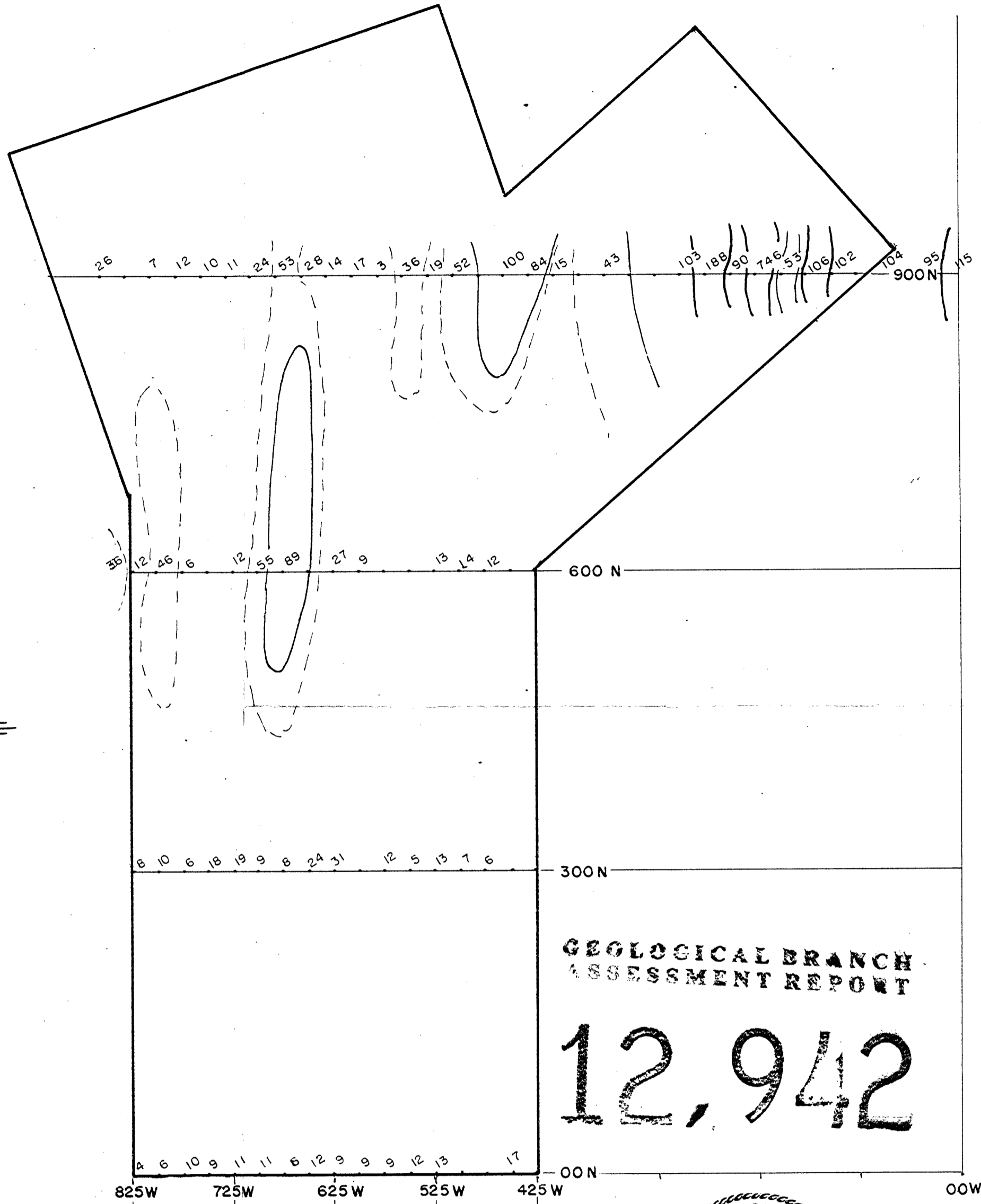
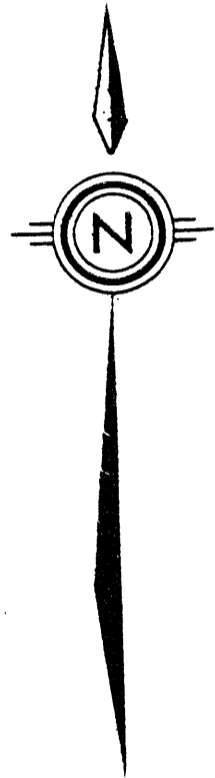
Fieldwork: M. Klein, J. Robins	
June 24-28, 1984 - 8 man days @ \$175	\$1,400.00
Vehicle Rental:	
4 days @ \$65 plus gas & mileage	420.00
Assaying:	
71 soil samples @ \$6.50	
11 rock samples @ \$20.75	689.75
Field supplies:	195.00
Room and Board:	
4 days @ \$60/day/man	480.00
Data Compilation, Drafting, Printing:	450.00
Supervision:	
L. Sookochoff, P.Eng. - 1 day @ \$400/day	400.00
Report and associated costs:	<u>1,250.00</u>
	\$5,284.75



SOOKOCHOFF CONSULTANTS INC.				
MADISON GROUP				
SANDON AREA				
SLOCAN MINING DIVISION				
LOCATION MAP				
SCALE 1:6,300,000	DATE SEPT, 1984	NTS 82 F/14	JOB NO.	FIGURE 1



SOOKOCHOFF CONSULTANTS INC.			
MADISON GROUP			
SANDON AREA			
SLOAN MINING DIVISION			
CLAIM & INDEX MAP			
SCALE: 1:50,000	DATE: Sept 1984	N.T.S B2F/14	DRAWN BY: GEO-COMP
			FIGURE: 2



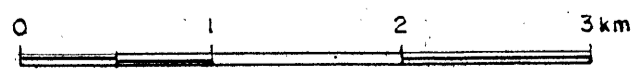
GEOLOGICAL BRANCH
ASSESSMENT REPORT

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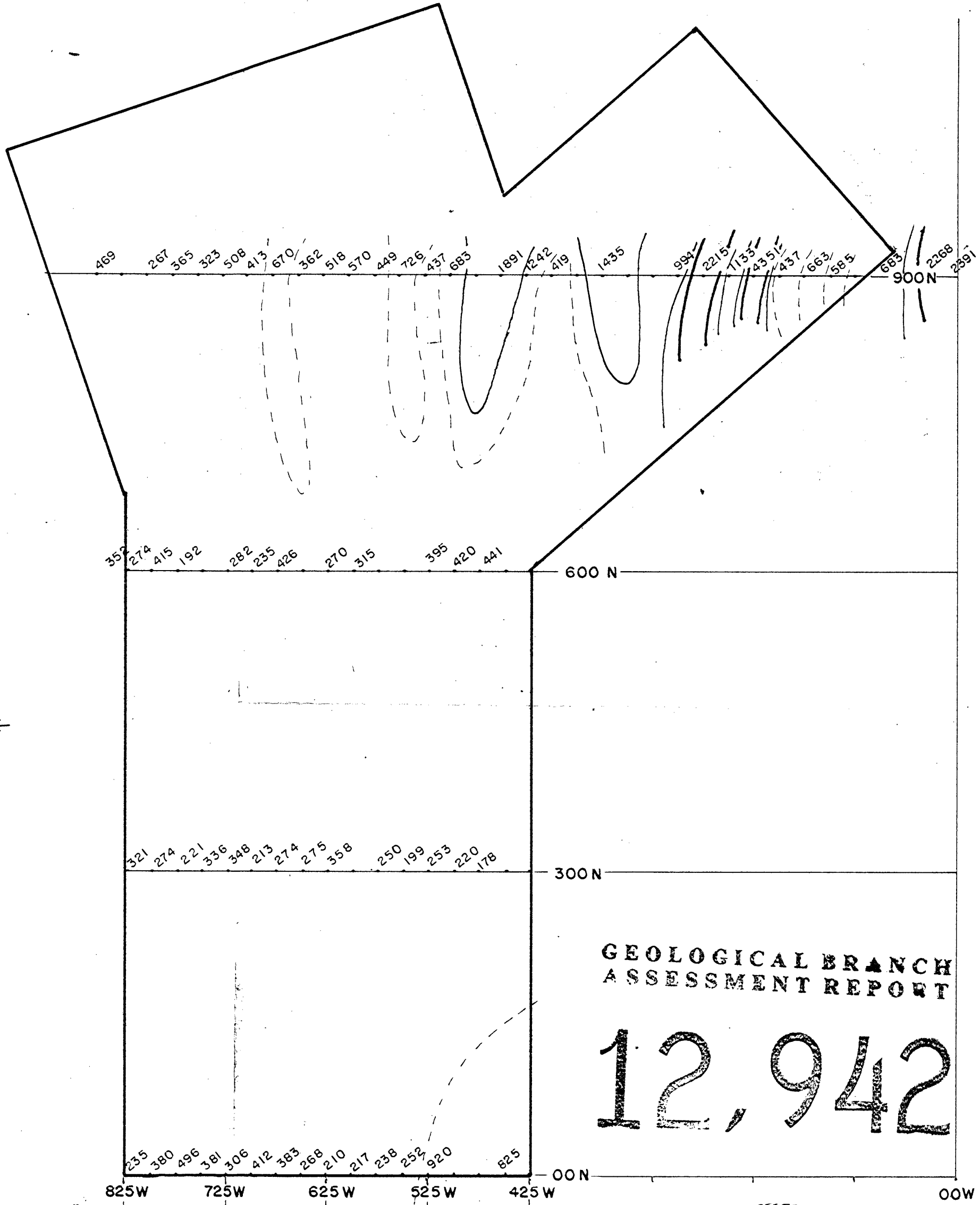
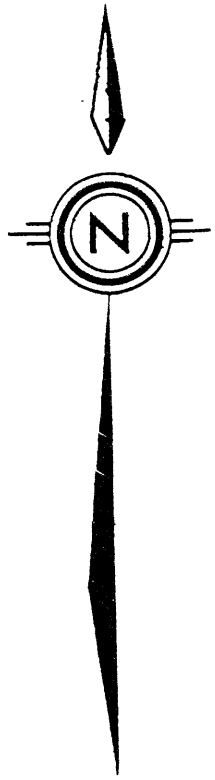


LEGEND

BACKGROUND THRESHOLD	31	ppm
SUB ANOMALOUS	68	"
ANOMALOUS	105	"



SOOKOCHOFF CONSULTANTS INC.			
SANDON PROPERTY			
SLOCAN MINING DIVISION			
GEOCHEMISTRY SURVEY			
ARSENIC			
SCALE 1:4,000	DATE SEPT, 1984	N.T.S 82F/14E	DRAWN BY: GEO-COMP
			FIGURE 3

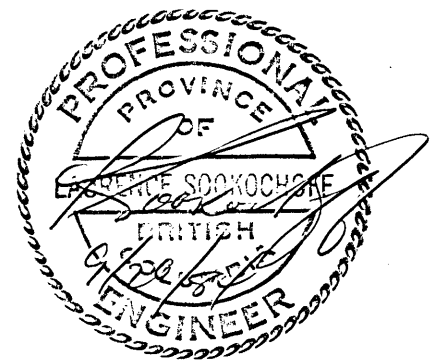


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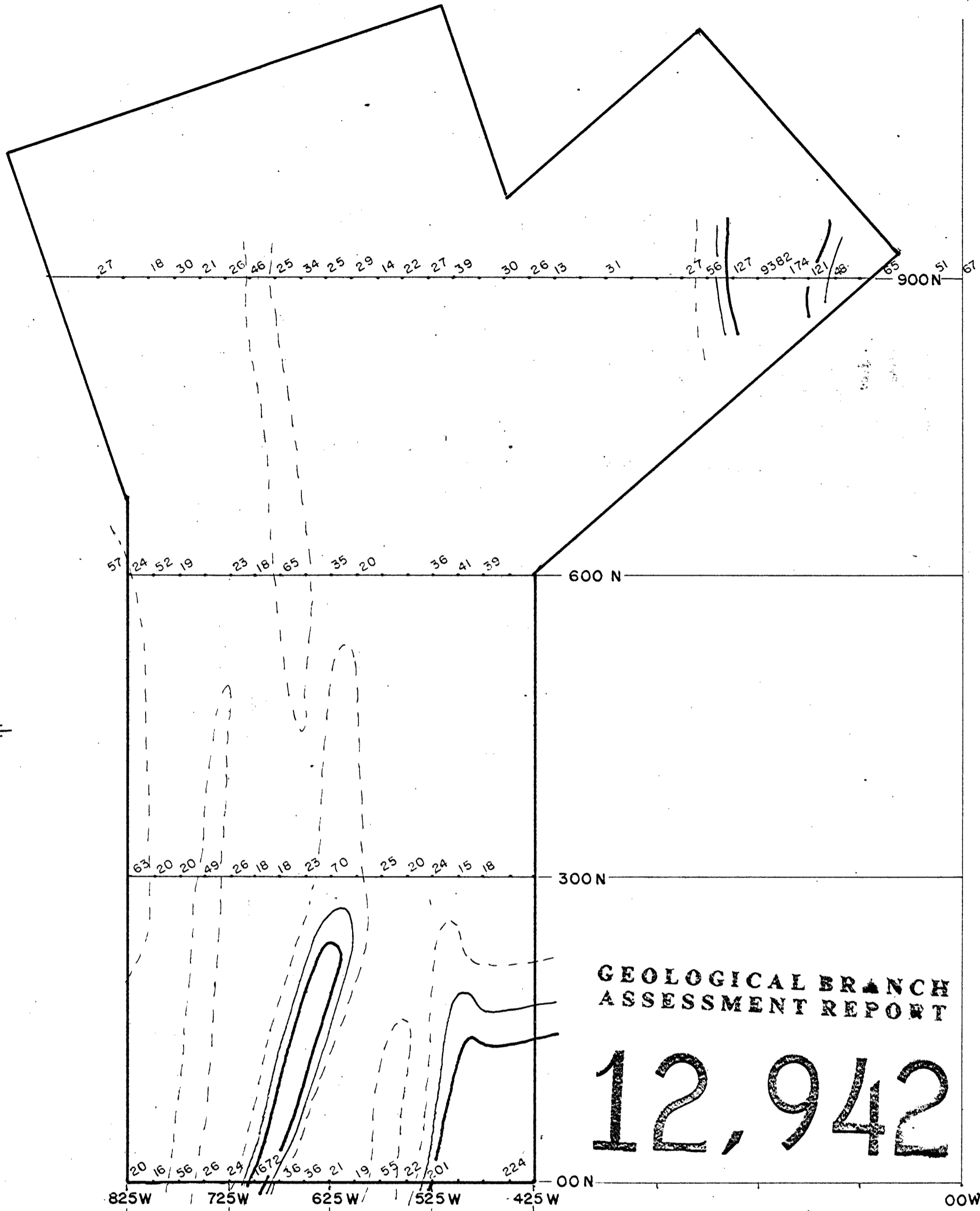
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LEGEND

BACKGROUND THRESHOLD	595 ppm
SUB ANOMALOUS	1252 "
ANOMALOUS	1909 "



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SLOCAN MINING DIVISION				
GEOCHEMISTRY SURVEY				
ZINC				
SCALE 1: 4,000	DATE SEPT, 1984	N.T.S. 82F/14E	DRAWN BY GEO-COMP	FIGURE 4



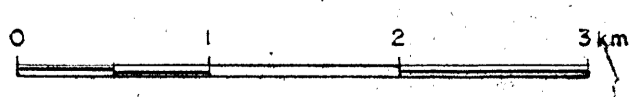
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ASSESSMENT REPORT**

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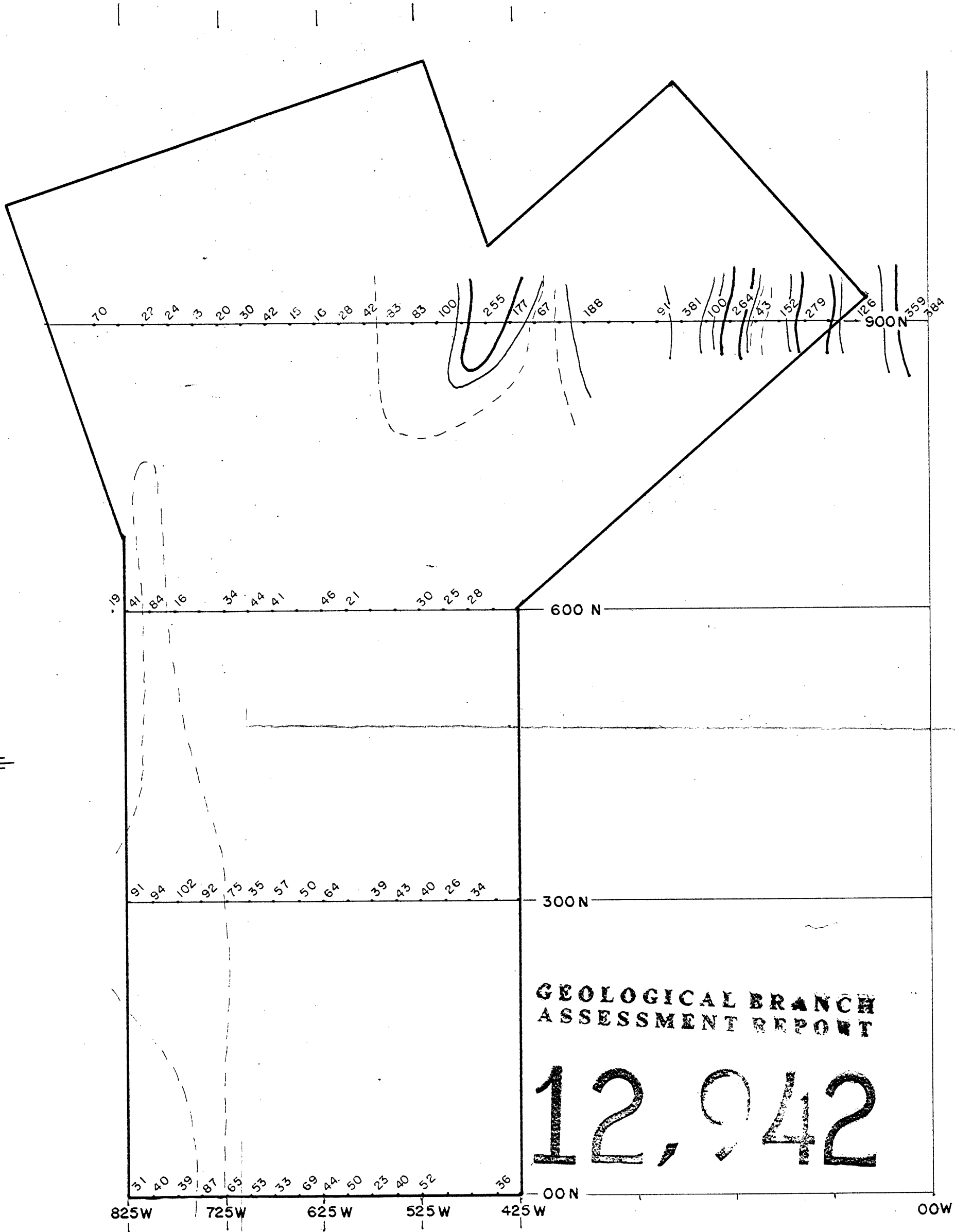
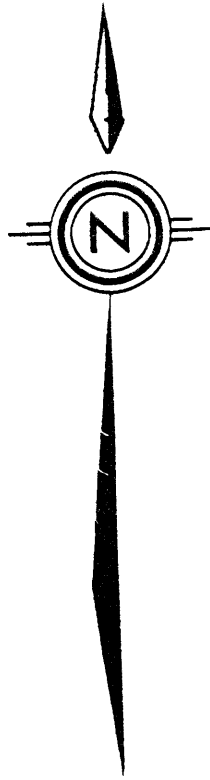


LEGEND

BACKGROUND THRESHOLD	41 ppm
SUB ANOMALOUS	81 "
ANOMALOUS	121 "



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SLOCAN MINING DIVISION				
GEOCHEMISTRY SURVEY				
LEAD				
SCALE 1: 4,000	DATE SEPT, 1984	N.T.S S2F/14E	DRAWN BY GEO-COMP	FIGURE 5



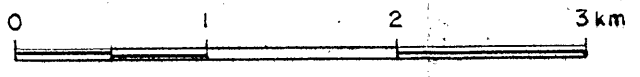
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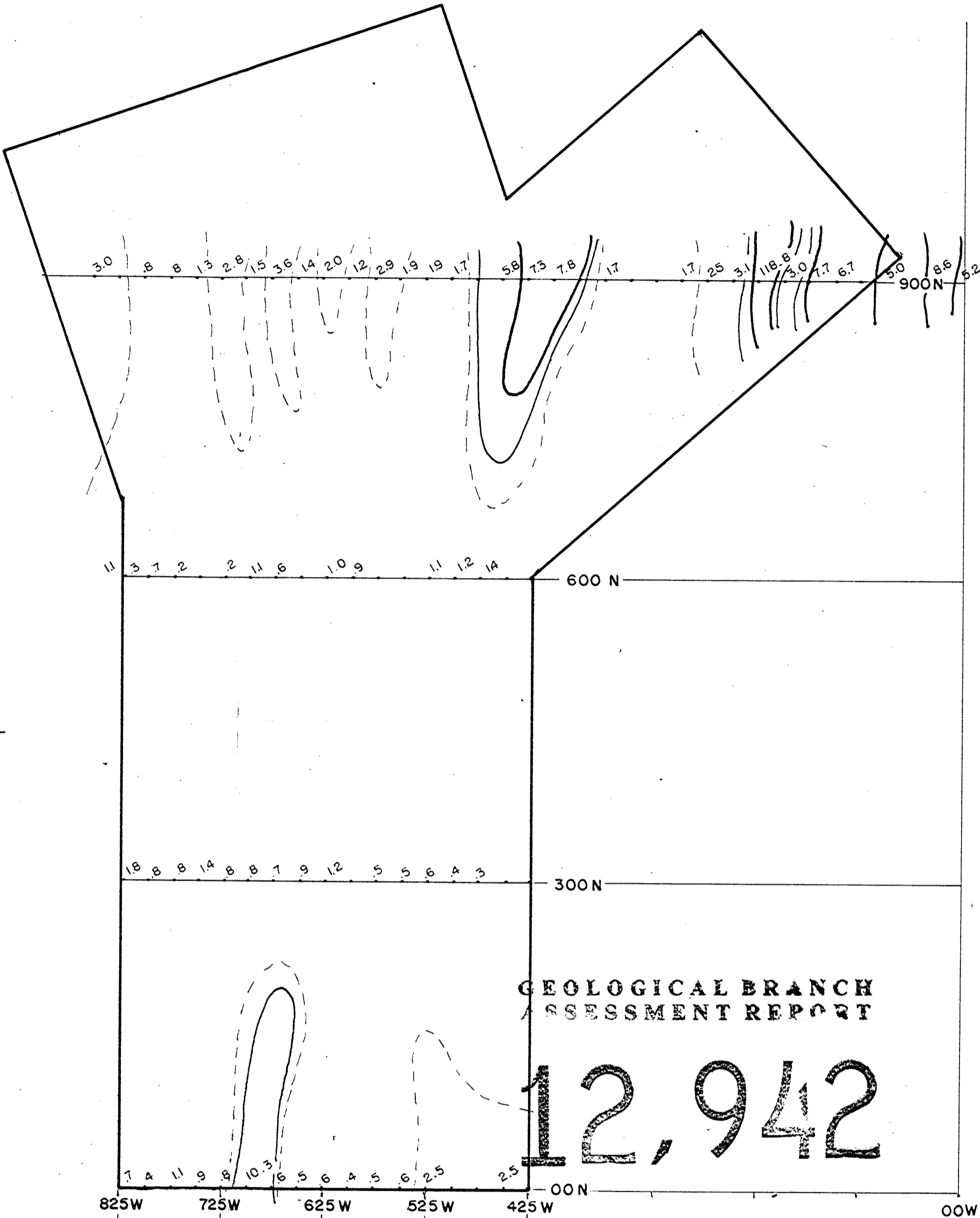


LEGEND

BACKGROUND THRESHOLD		78 ppm
SUB ANOMALOUS	"	162 "
ANOMALOUS	"	246 "

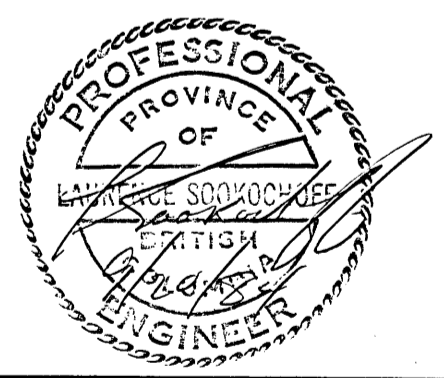


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SANDON PROPERTY			
SLOCAN MINING DIVISION			
GEOCHEMISTRY SURVEY			
COPPER			
SCALE 1:4,000	DATE SEPT, 1984	NTS 82F/14E	DRAWN BY: GEO-COMP
			FIGURE 6



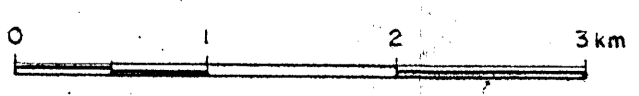
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ASSESSMENT REPORT

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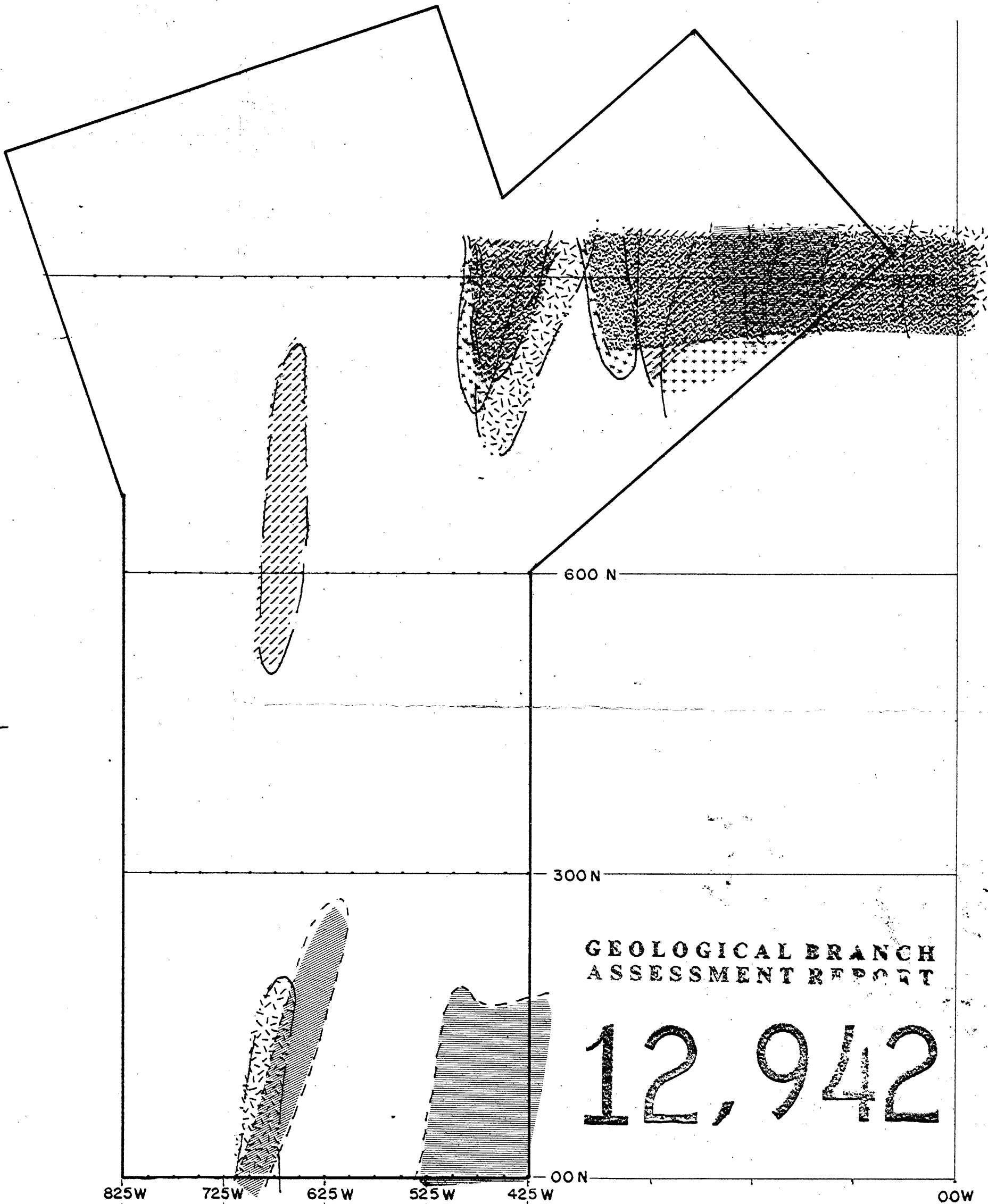
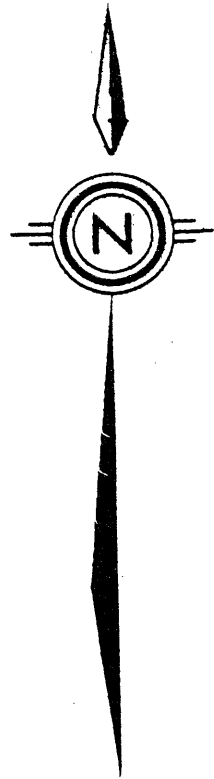


LEGEND

BACKGROUND THRESHOLD	1.9	ppm
SUB ANOMALOUS	3.9	"
ANOMALOUS	5.9	"



SOOKOCHOFF CONSULTANTS INC.				
SANDON PROPERTY				
SLOCAN MINING DIVISION				
GEOCHEMISTRY SURVEY				
SILVER				
SCALE 1:4,000	DATE SEPT, 1984	N.T.S 82F/14E	DRAWN BY GEO-COMP	FIGURE 7



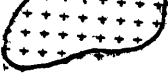




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LEGEND

-  COPPER SUB ANOMALY & ANOMALY
-  ARSENIC " "
-  ZINC " "
-  SILVER " "
-  LEAD " "



SOOKOCHOFF CONSULTANTS INC.

SANDON PROPERTY

SLOCAN MINING DIVISION

GEOCHEMISTRY SURVEY

COMPILATION MAP

SCALE
1: 4,000

DATE
SEPT, 1984

N.T.S.
82F/14E

DRAWN BY:
GEO-COMP

FIGURE
8

