

LOG NO: 0105	80.
ACTION:	
FILE NO:	

ASSESSMENT REPORT

1987 GEOCHEMICAL AND GEOPHYSICAL SURVEY
ON THE
MCKINLAY AND MCKINLAY 1 MINERAL CLAIMS
CHINA CREEK AREA

VICTORIA MINING DIVISION
BRITISH COLUMBIA NTS 92F-2E

LATITUDE: 49° 08' N
LONGITUDE: 124° 34' W

FILMED

OPERATOR: SWIFT MINERALS LTD.
OWNER : JAROSLAV RUZA

16,822

GEOLOGICAL BRANCH
ASSESSMENT REPORT

DECEMBER, 1987

R. S. VERZOSA, P. Eng.
Consulting Geologist

TABLE OF CONTENTS

	Page
INTRODUCTION	1
Location and Access	1
Property Definition	1
History	4
GEOLOGY	
General Comment	4
Mineralization	4
GEOCHEMISTRY AND GEOPHYSICS	
Line Cutting	6
Soil Sampling	6
VLF-EM Survey	6
Magnetometer Survey	6
DISCUSSION OF RESULTS	
McKinlay Claim	7
McKinlay 1 Claim	7
STATEMENT OF EXPENDITURES	9
CERTIFICATE	10

LIST OF ILLUSTRATIONS

FIGURE	TITLE	PAGE
1.	Location and Access	2
2.	Claim Map	3
3.	District Geology	5
4.	Soil Geochemistry (Copper) McKinlay	Pocket
4a.	" " " McKinlay-1	"
5.	Soil Geochemistry (Lead) McKinlay	Pocket
5a.	" " " McKinlay-1	"
6.	Soil Geochemistry (Zinc) McKinlay	Pocket
6a.	" " " McKinlay-1	"
7.	Soil Geochemistry (Silver) McKinlay	Pocket
7a.	" " " McKinlay-1	"
8.	Soil Geochemistry (Arsenic) McKinlay	Pocket
8a.	" " " McKinlay-1	"
9.	Soil Geochemistry (Gold) McKinlay	Pocket
9a.	" " " McKinlay-1	"
10.	VLF-EM Survey McKinlay	Pocket
10a.	" " McKinlay-1	"
11.	Magnetometer Survey McKinlay	Pocket
11a.	" " McKinlay-1	"
12.	Compilation Map	8

INTRODUCTION

Swift minerals Ltd. has an option to purchase the Mckinlay and McKinlay 1 mineral claims collectively known as the McKinlay Property located near Port Alberni, Vancouver Island, B.C. The McKinlay Property lies within the well-known Sicker Volcanic Belt that hosts a number of gold deposits.

During the periods April 1, 1987 to April 22, 1987, Swift Minerals Ltd. conducted a program of soil sampling, VLF-EM survey and Magnetometer survey. The survey was limited to the eastern half of the McKinlay claim and on the central part of the McKinlay 1 claim. At the time of the survey the higher elevations were still under snow cover.

The actual field work was contracted to Bill Chase and Associates of Ladner, B. C. Included with his crew was George R. King who carried out limited outcrop mapping and prospecting. Prior to the work program of Swift Minerals Ltd. the property was examined by Herb Wahl, P.Eng. who sampled the main showing on the McKinlay 1 claim. The result of his sampling is discussed in this report.

Location and Access

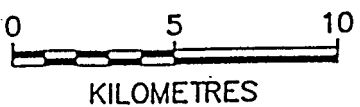
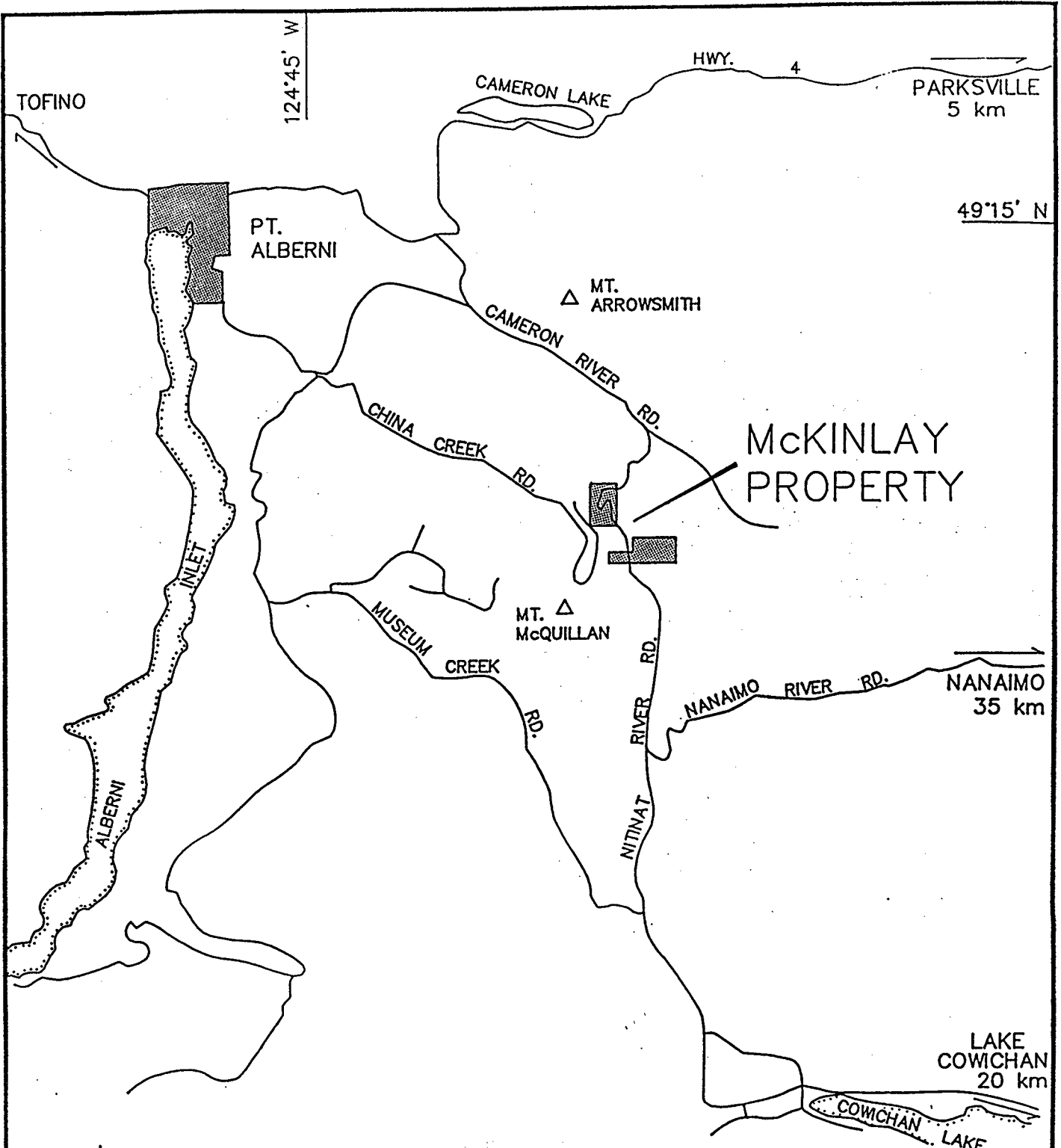
The McKinlay property is 20 km southeast of Port Alberni at the divide separating the upper reaches of Cameron River, China Creek and Nitinat River (Figure 1). It is accessible from Port Alberni by logging roads along the Cameron River and China Creek and from Duncan and Nanaimo by logging roads along the Nitinat and Nanaimo Rivers. Logging is active in the general area. The topography is moderately rugged with elevations from 600 to 1200 metres. The climate is fairly mild and wet with significant snow precipitation.

Property Definition

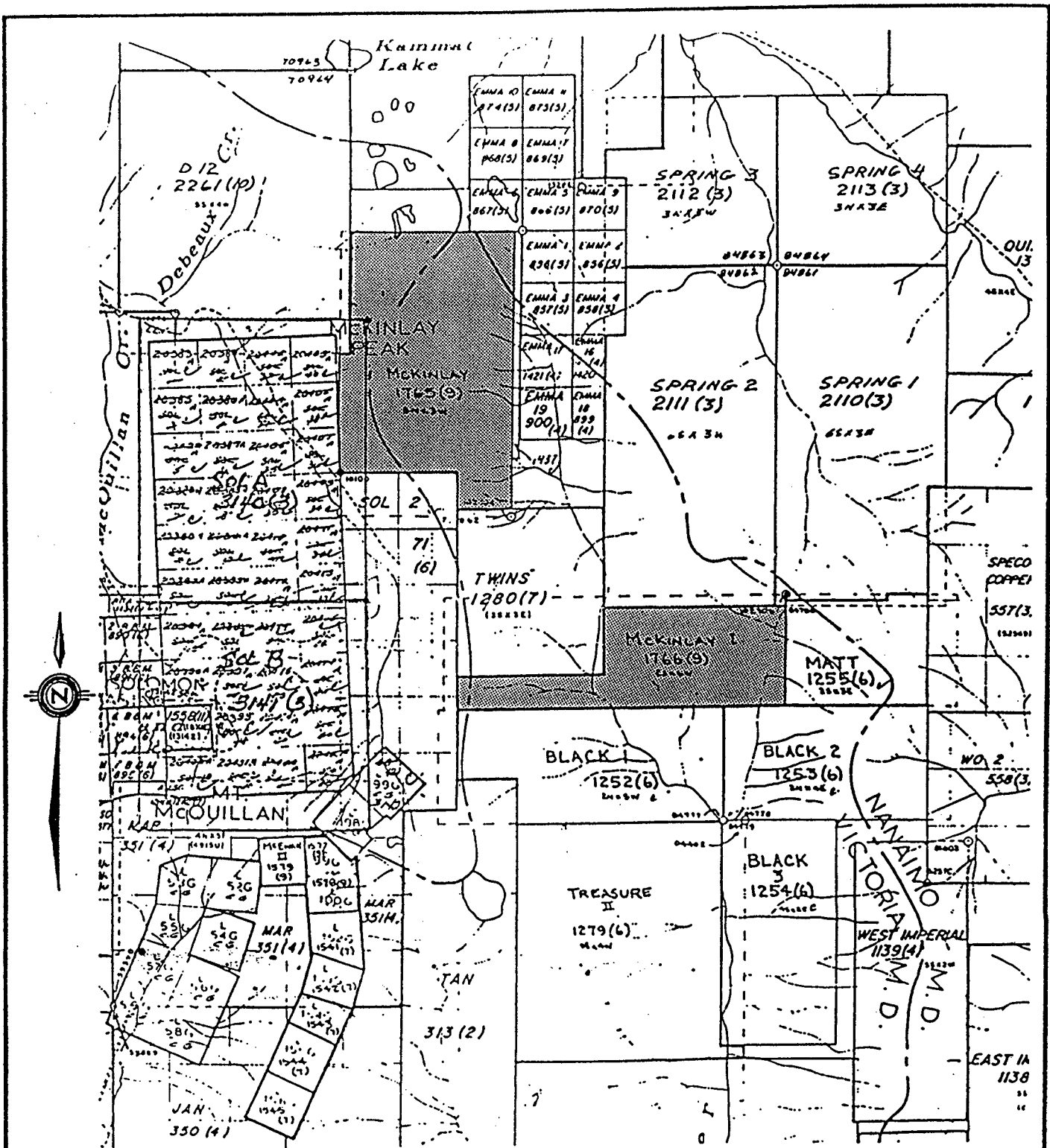
The property comprises two non-contiguous mineral claims (Figure 2). Since the claims overstaked pre-existing properties the original total of 27 units has been reduced to a net total of 22 units. The claims are defined as follows:

<u>Claim</u>	<u>Record No.</u>	<u>Units</u>	<u>Record Date</u>
McKinlay	1765	15	26 Sept 1986
McKinlay 1	1766	12	26 Sept 1986

Swift Minerals Ltd. has an option to purchase the claims from Jaroslav Ruza.



SWIFT MINERALS LTD.	
McKINLAY PROPERTY	
VICTORIA M.D., VANCOUVER ISLAND	
LOCATION & ACCESS	
After Westerman, May, 1987	
DATE: Dec., 1987	FIGURE: 1



SWIFT MINERALS LTD.

McKINLAY PROPERTY
 VICTORIA M.D., VANCOUVER ISLAND

NTS: 92 F/2 E

CLAIM MAP

After Westerman May, 1987

DATE: Dec., 1987

FIGURE: 2

History

Before the turn of the century the headwaters of China Creek was the site of small scale placer mining. Thereafter, gold, silver and copper deposits were discovered in the immediate area. In 1895 to 1900 an eight-stamp mill was in operation on Mineral Creek. Between 1933 and 1944 a small amount of high grade ore was produced from several properties in the area. Since that time sporadic exploration has been carried out in the general area by various companies.

The resurgence of exploration in the area was prompted by the discovery of gold-bearing massive sulphide deposits in the Sicker Group, notably the Lara deposit near Duncan and quite recently the Debbie deposit in Mineral Creek near Port Alberni. The McKinlay Property is chiefly underlain by the Sicker Group and contains rock units similar to those that hosts the gold deposits in the Mineral Creek area.

GEOLOGY

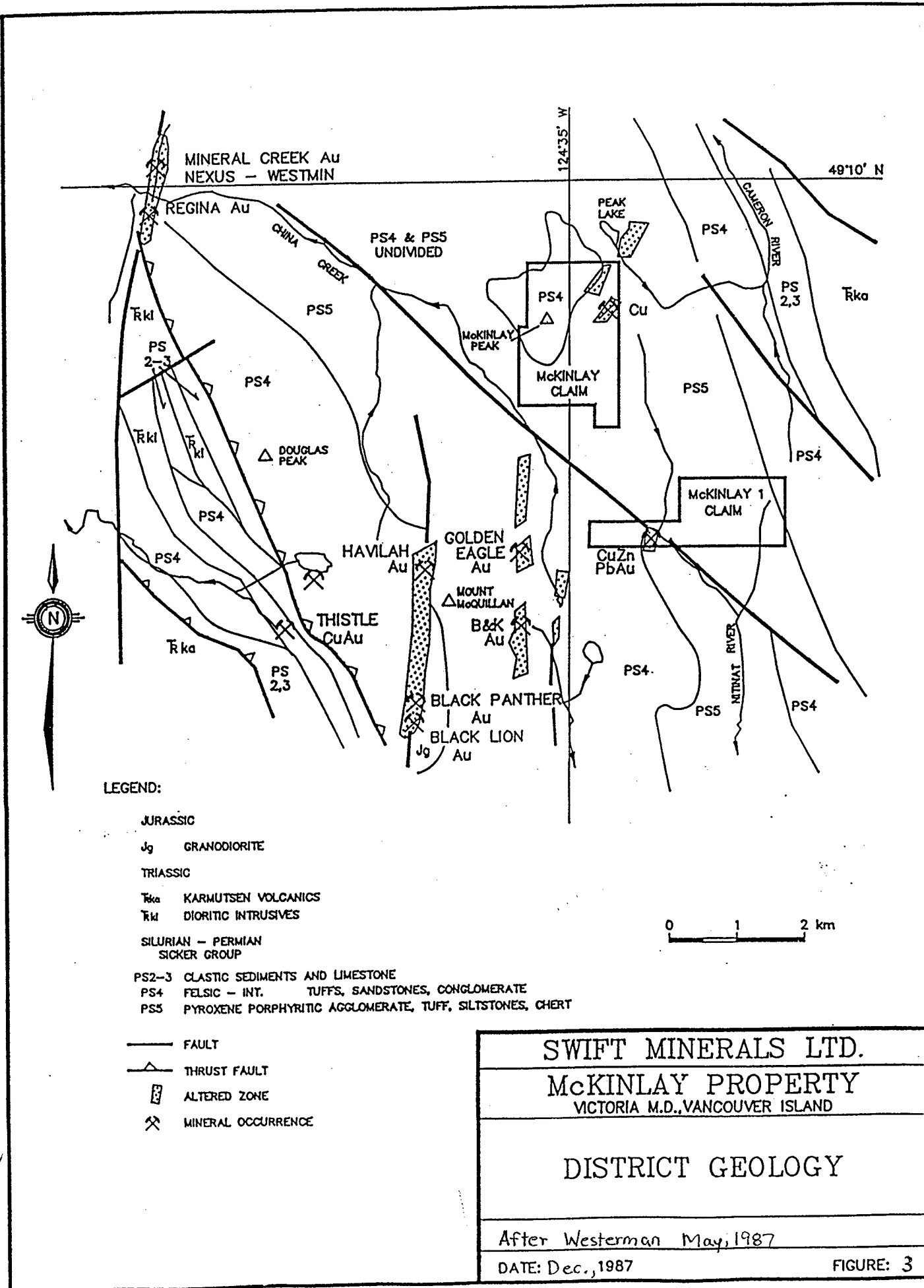
General Comment

The McKinlay Property lies within an arcuate structural belt extending west and northwest from Duncan in the south for nearly 160 km towards Port Alberni in the north. The belt is primarily underlain by volcanic and sedimentary units of the Sicker Group. Late Triassic sediments and volcanics belonging to the Karmutsen, Quatsino and Parsons Bay Formation unconformably overlie the Sicker Group. The Parsons Bay Formation is in turn conformably overlain by volcanics and sediments of the Early to Middle Jurassic Bonansa Group. Tertiary quartz-feldspar porphyry stocks locally intrude all older rocks.

Recent geological mapping of the general area (O.F. 1272) shows the McKinlay Property underlain by subunits (PS₄ and PS₅) of the Sicker Group (Figure 3). The older unit (PS₅) consists of pyroxene porphyry, agglomerate, tuff breccia, sandstone and chert. The younger unit (PS₄) consists of volcanics, sandstone, conglomerate and tuff. The regional trend near the property is north-northwest with dominant west dips.

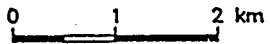
Mineralization

In the McKinlay 1 claim a gossan zone is exposed in a road cut immediately north of the south boundary of the McKinlay 1 claim and west of the Nitinat River. The zone is silicified, pyritized and contains mariposite. A ten-metre wide chip sample from this zone collected by Herb Wahl, P.Eng. returned anomalous values of 685 ppb Au, 8.6 ppm Ag, 3900 ppm Cu, 1300



LEGEND:

- JURASSIC
- Jg GRANODIORITE
- TRIASSIC
- Trka KARMUTSEN VOLCANICS
- Trki DIORITIC INTRUSIVES
- SILURIAN - PERMIAN SICKER GROUP
- PS2-3 CLASTIC SEDIMENTS AND LIMESTONE
- PS4 FELSIC - INT. TUFFS, SANDSTONES, CONGLOMERATE
- PS5 PYROXENE PORPHYRITIC AGGLOMERATE, TUFF, SILTSTONES, GHEAT
- FAULT
- △ THRUST FAULT
- ▨ ALTERED ZONE
- ⊗ MINERAL OCCURRENCE



SWIFT MINERALS LTD.
McKINLAY PROPERTY VICTORIA M.D., VANCOUVER ISLAND
<h2 style="margin: 0;">DISTRICT GEOLOGY</h2>
After Westerman May, 1987
DATE: Dec., 1987 FIGURE: 3

ppm Pb and 4650 ppm Zn.

Other zones are also present on the McKinlay claim. One such zone is located near the east boundary of the claim in the vicinity of L15N (Figure 2). It is silicified, pyritized and about 5 metres wide.

GEOCHEMISTRY AND GEOPHYSICS

Line Cutting

The presence of snow cover at higher elevations confined the survey to the eastern half of the McKinlay claim and only the central part of the McKinlay 1 claim (Figure 3). The rugged topography in certain areas necessitated the establishment of a staggered base line. Since the survey was preliminary in nature the grid lines were spaced at 100 metres at the lower elevations and 200 metres at the higher elevations. Horizontal distances were established with the help of a clinometer.

Soil Sampling

Soil samples were collected every 25 metres along the grid lines. The samples were taken from the "B" layer at depths between 15 to 30 cm and the samples were placed in wet-strength kraft envelopes. The samples were delivered to Acme Analytical Laboratory in Vancouver where they were analyzed for Cu, Pb, Zn, Ag, As and Au. The analytical results are appended in the report and are plotted in Figures 4, 5, 6, 7, 8, and 9 for the McKinlay claim and Figures 4a, 5a, 6a, 7a, 8a, and 9a for the McKinlay 1 claim.

VLF-EM Survey

A Geonics EM-16 was used in the survey with the primary signals coming from the Seattle transmitter. The raw data was filtered using the Fraser method. The filtered data together with the raw data are presented in Figure 10 and 10a for the McKinlay and McKinlay 1 claims respectively.

Magnetometer Survey

A Scintrex MP-2 proton precession magnetometer was utilized in the survey. The values shown are measurements of the total field. The results of the survey are shown in Figure 11 and 11a for the McKinlay and McKinlay 1 claims respectively. *Units of measurement are in gammas (γ)*

DISCUSSION OF RESULTS

McKinlay Claim

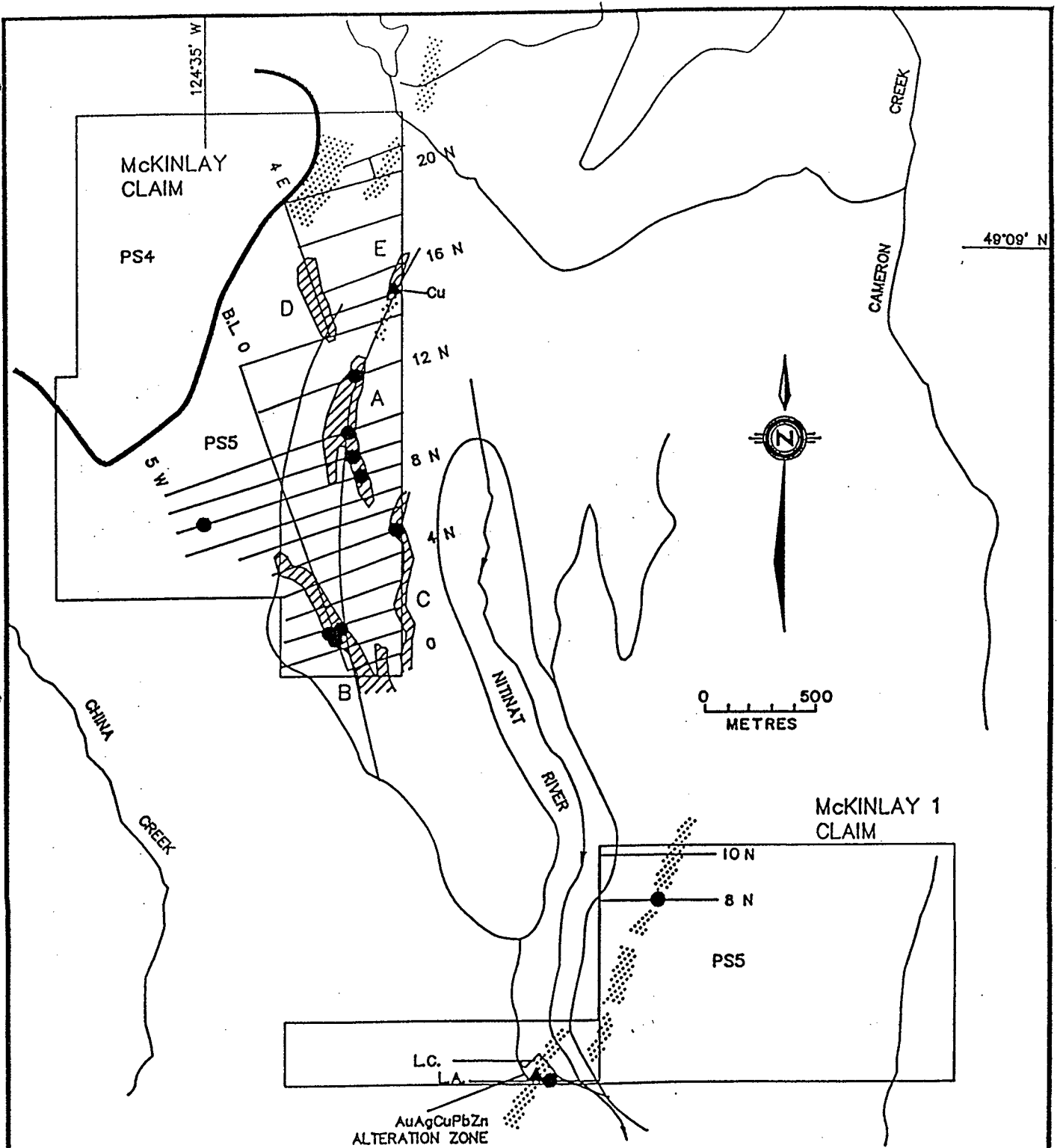
Five areas of anomalous gold values (greater than 25 ppb) are present within the surveyed area (Figure 12). One anomaly "A" appears to have a strike length of 400 metres and is defined by values greater than 175 ppb Au. Further north anomaly "E" with soil values of 25-50 ppb Au may be an extension of anomaly "A". Anomaly "B" has a length of 500 metres defined by values greater than 50 ppb Au. Within this anomaly is a central area of high values of between 200 and 250 ppb Au. The gold anomalies are broadly coincident with weakly anomalous copper values (100 ppm-175 ppm Cu).

The VLF-EM survey while indicating northerly conductive zones did not show definite correlation to the gold anomalies.






The magnetometer survey did not show any significant magnetic contrast.

McKinlay 1 Claim

The surveys carried out on the McKinlay 1 claim were of a reconnaissance nature, and therefore insufficient to establish any extension to the gossan zone previously described.



LEGEND:

-  GOLD SOIL ANOMALY
Au > 25 ppb
-  SOIL Au > 100 ppb
-  PS4 FELSIC VOLCANICS & SEDIMENTS
-  PS5 MAFIC VOLCANICS & SEDIMENTS
-  GOSSAN - PYRITE SILICA,
CARBONATE ALTERATION

SWIFT MINERALS LTD.

McKINLAY PROPERTY
VICTORIA M.D., VANCOUVER ISLAND

COMPILATION MAP

After Westerman, May, 1987

DATE: Dec., 1987

FIGURE: 12

STATEMENT OF EXPENDITURES

Bill Chase and Associates (Contractor)	\$ 9160.75
Helicopter including radio rental	1047.28
Geonics EM-16 Rental	750.00
Acme Analytical Laboratory (analysis)	7347.50
Drafting, 16 hrs @ \$20/hr	320.00
Report Preparation, 3 days at \$300/day	900.00
TOTAL	\$ <u>19525.53</u>



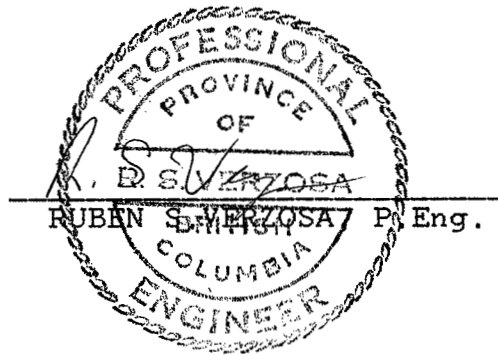
R. Serrano Verzosa, P. Eng.

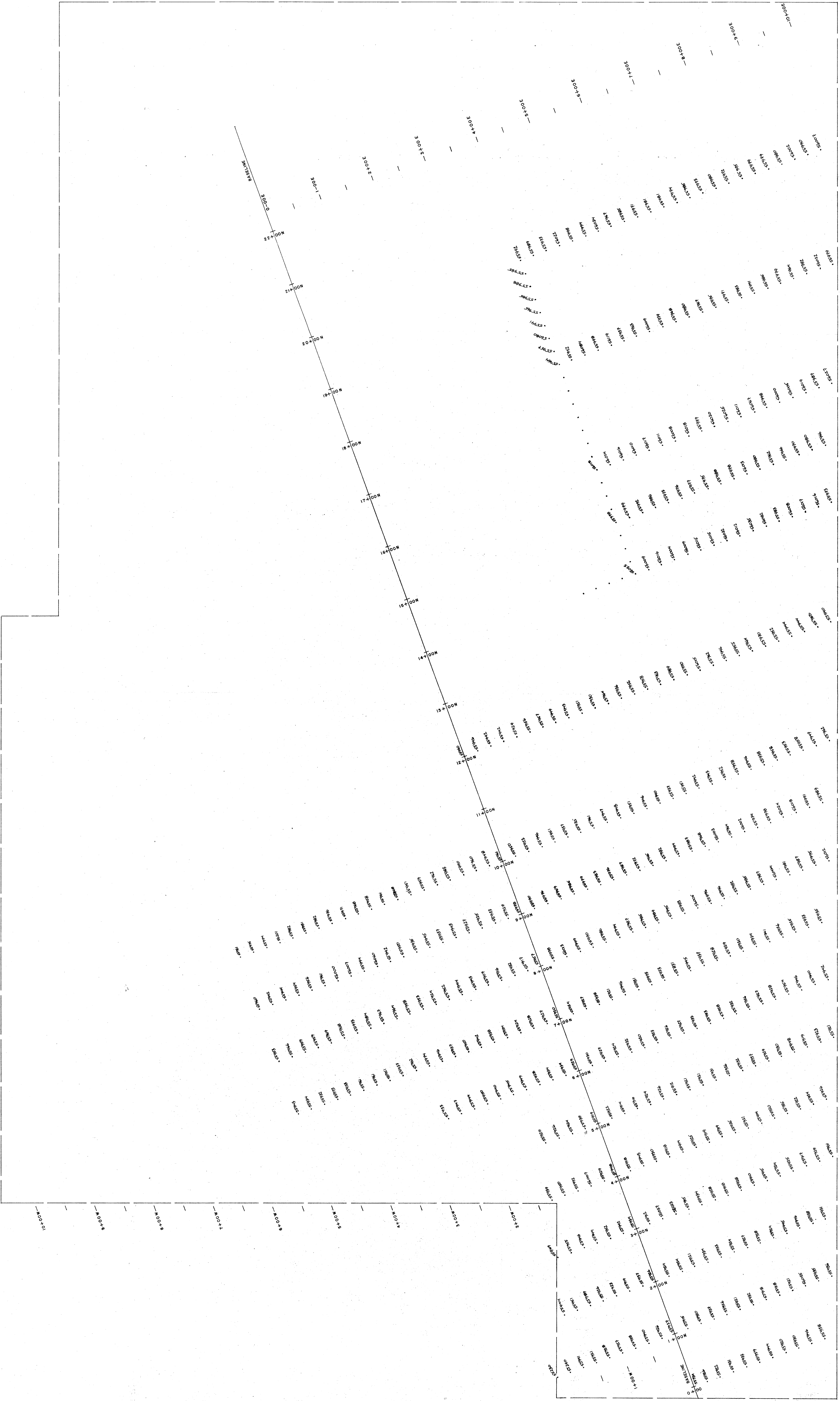
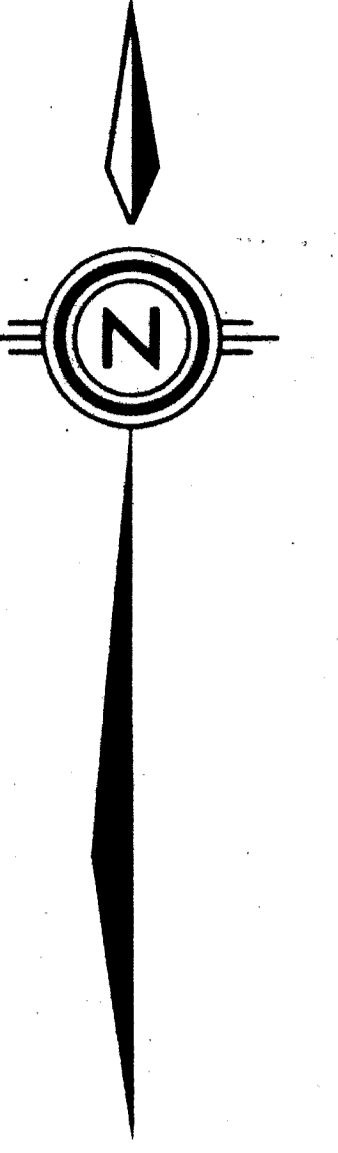
CERTIFICATE

I, Ruben S. Verzosa, of Langley, British Columbia, hereby certify that:

1. I am a graduate of the University of the Philippines in Geology, 1957.
2. I have been practicing my profession as a geologist for more than 25 years.
3. I have been a member of the Association of Professional Engineers of British Columbia since 1970.
4. The work on the McKinlay Property was carried out under my supervision and direction as president of Swift Minerals Ltd.

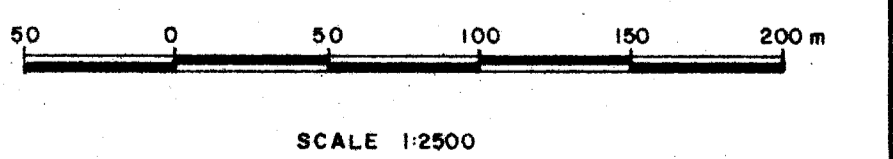
DATED at Vancouver, British Columbia, this 22nd day of December, 1987.



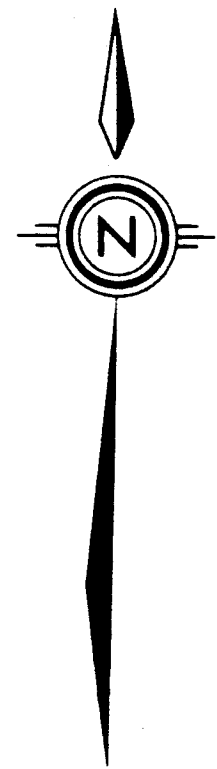


GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,822



SWIFT MINERALS LTD.	
MCKINLAY PROPERTY	
SOIL GEOCHEMISTRY	
MAGNETOMETER SURVEY	
COMPILED: R.S.V.	DATE: Dec. 18, 1987



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,822



SCALE 1:5000

SWIFT MINERALS LTD.

McKINLAY-1 PROPERTY

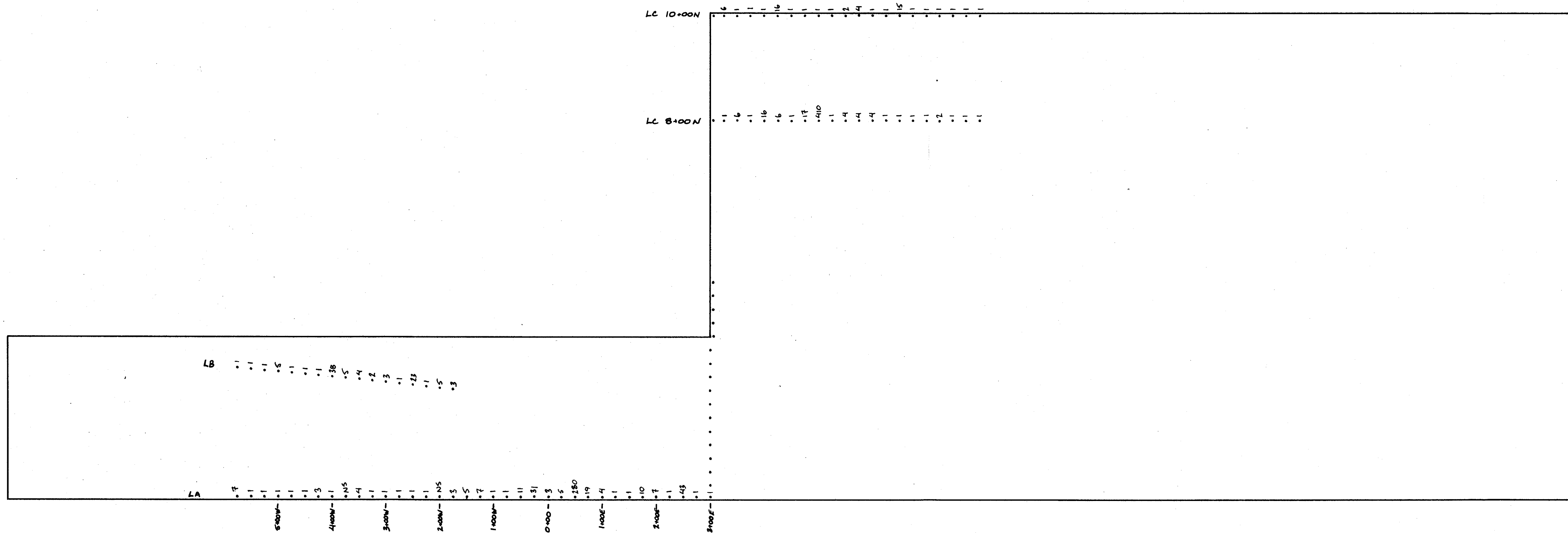
SOIL GEOCHEMISTRY

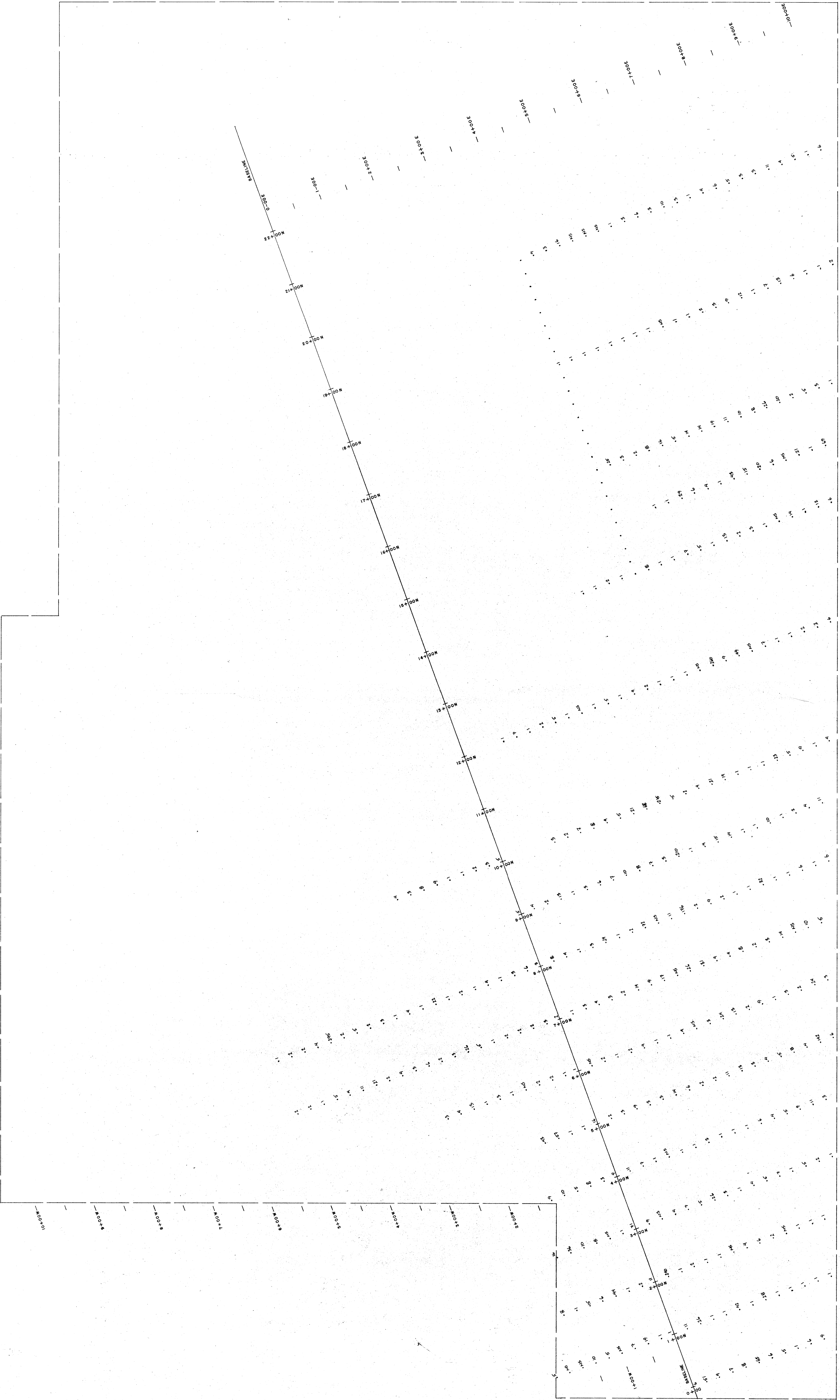
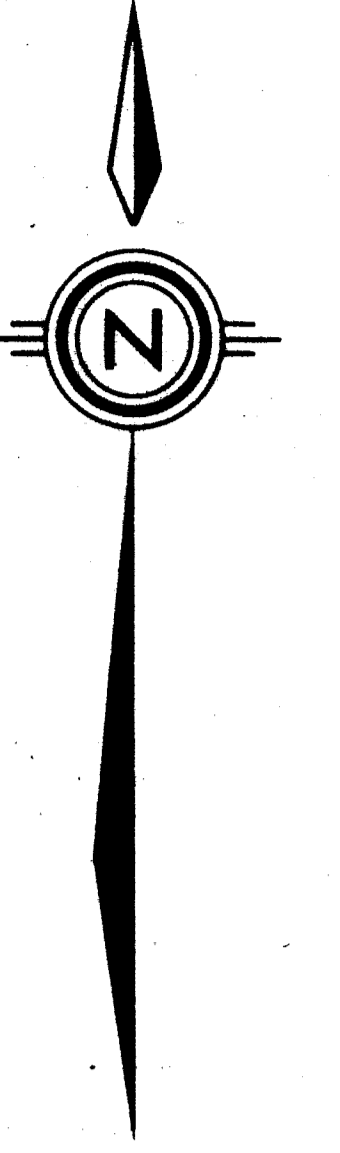
GOLD

COMPILED: RV

DATE: DEC 1987

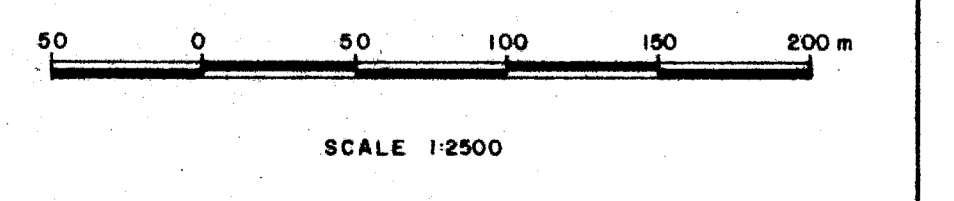
FIGURE 9A





GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,822



SWIFT MINERALS LTD.

McKINLAY PROPERTY

SOIL GEOCHEMISTRY

(GOLD)
ppb

COMPILED: R.S.V. DATE: Dec. 18, 1987



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,822



SCALE 1:5000

SWIFT MINERALS LTD.

McKINLAY-1 PROPERTY

SOIL GEOCHEMISTRY

ARSENIC

COMPILED: RN

DATE: DEC 1987

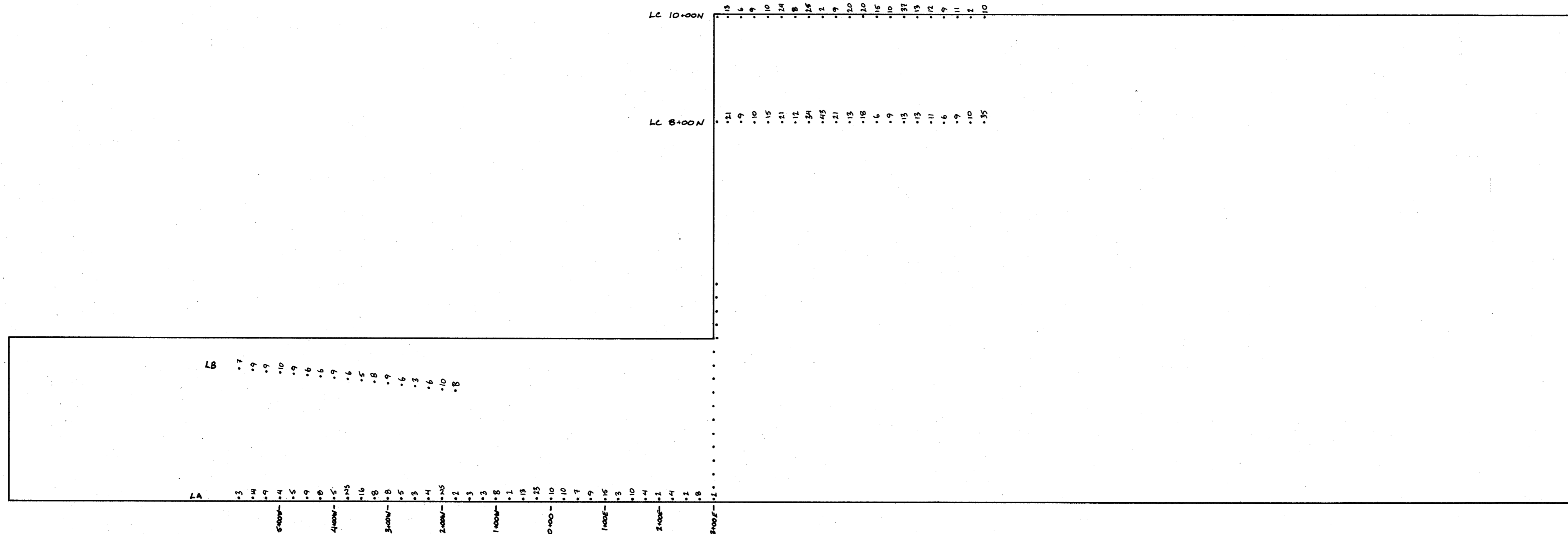
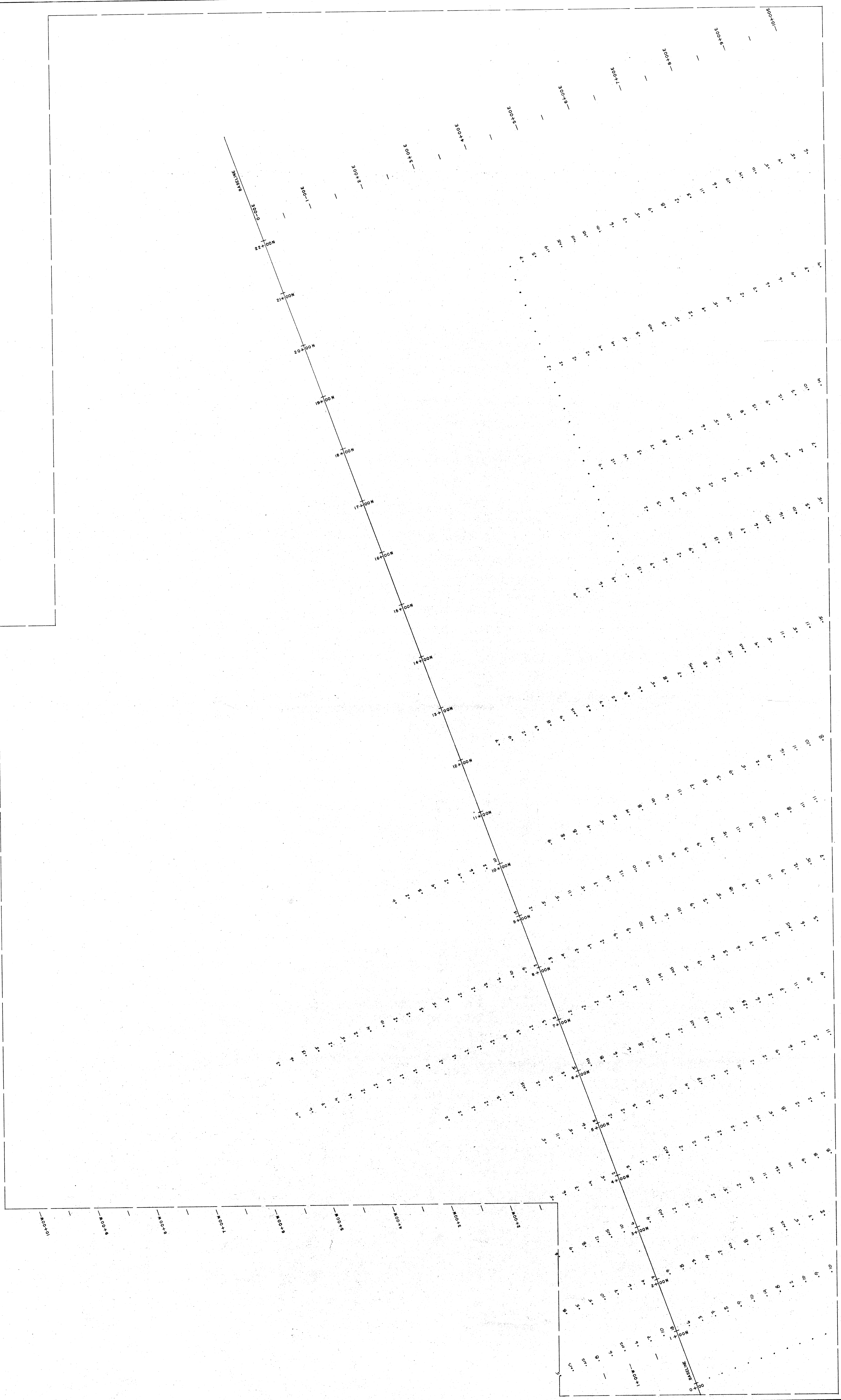
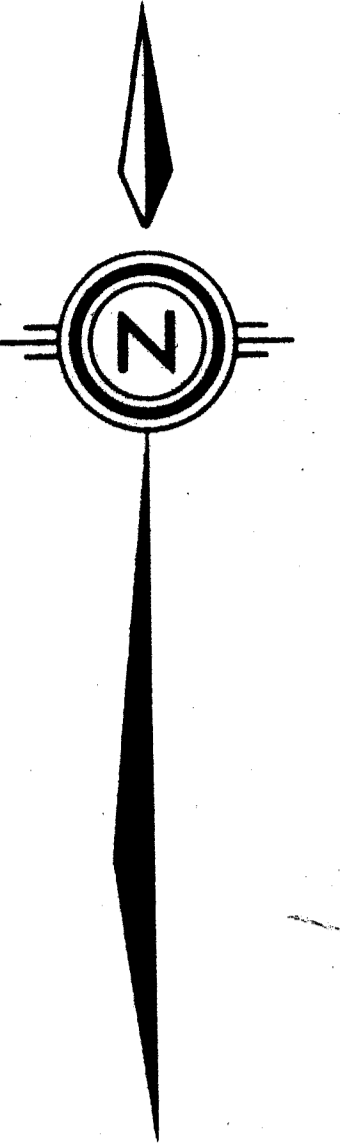
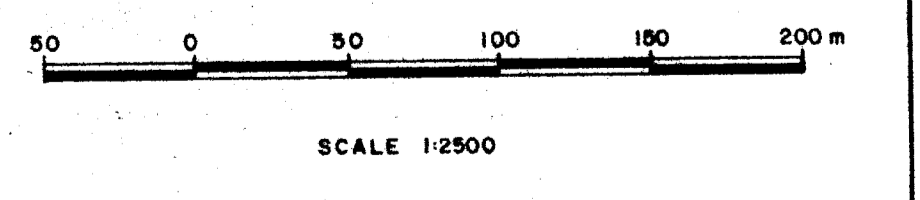


FIGURE BA

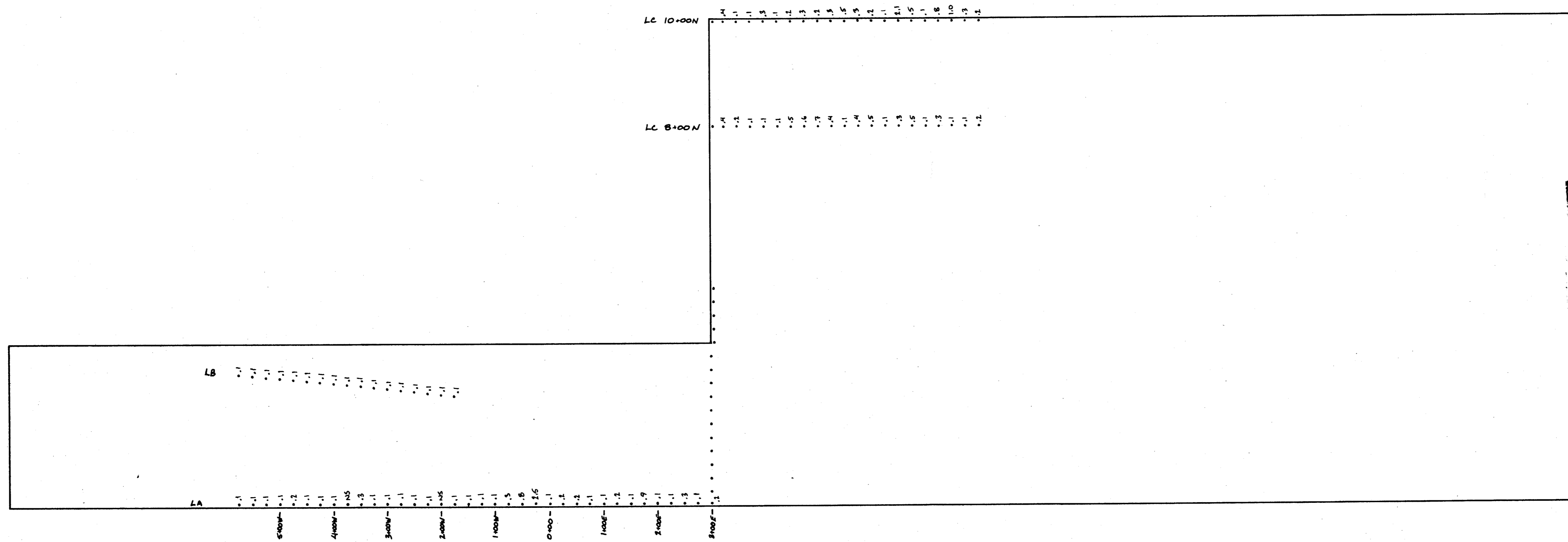


GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,822



SWIFT MINERALS LTD.	
McKINLAY PROPERTY	
SOIL GEOCHEMISTRY	
(ARSENIC ppm)	
COMPILED: R.S.V.	DATE: Dec. 18, 1987



GEOLOGICAL BRANCH
ASSESSMENT REPORT

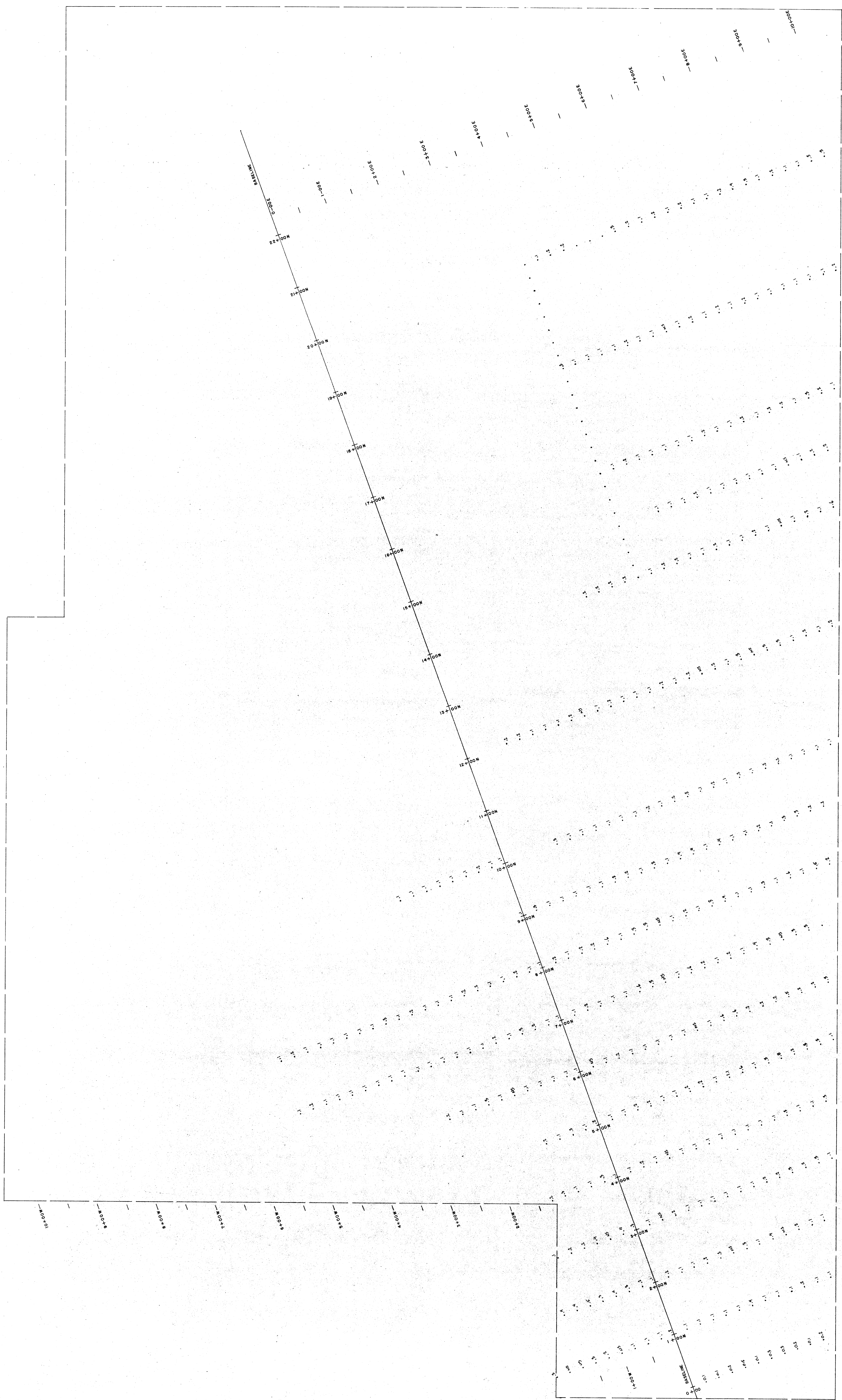
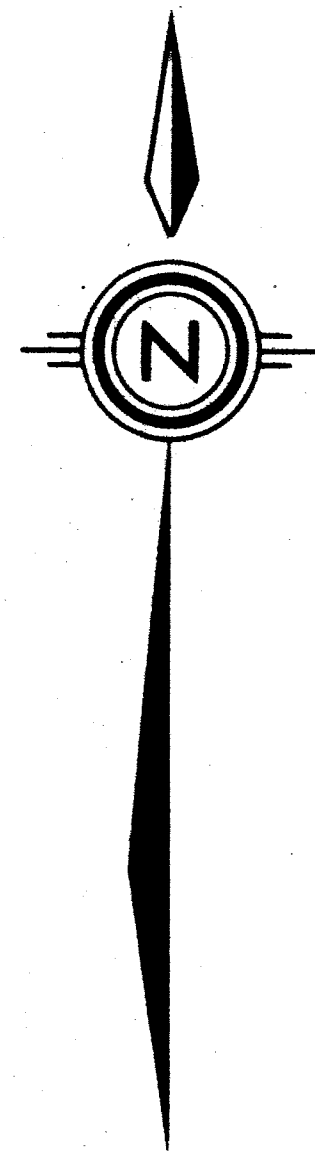
16,822



SCALE 1:5000

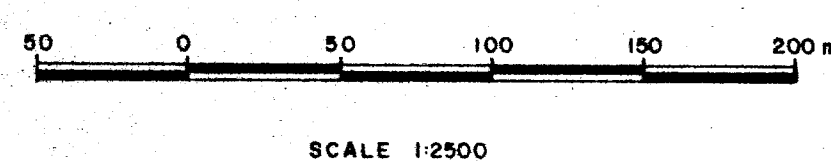
SWIFT MINERALS LTD.	
McKINLAY-1 PROPERTY	
SOIL GEOCHEMISTRY	
SILVER	
COMPILED: RV	DATE: DEC 1987

FIGURE 7A



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,822



SWIFT MINERALS LTD.	
MCKINLAY PROPERTY	
SOIL GEOCHEMISTRY	
(SILVER ppm)	
COMPILED: R.S.V.	DATE: Dec. 12, 1987



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,822

100 0 100 200 300 400m

SCALE 1:5000

SWIFT MINERALS LTD.

McKINLAY-1 PROPERTY

SOIL GEOCHEMISTRY

ZINC

COMPILED: RV

DATE: DEC 1987

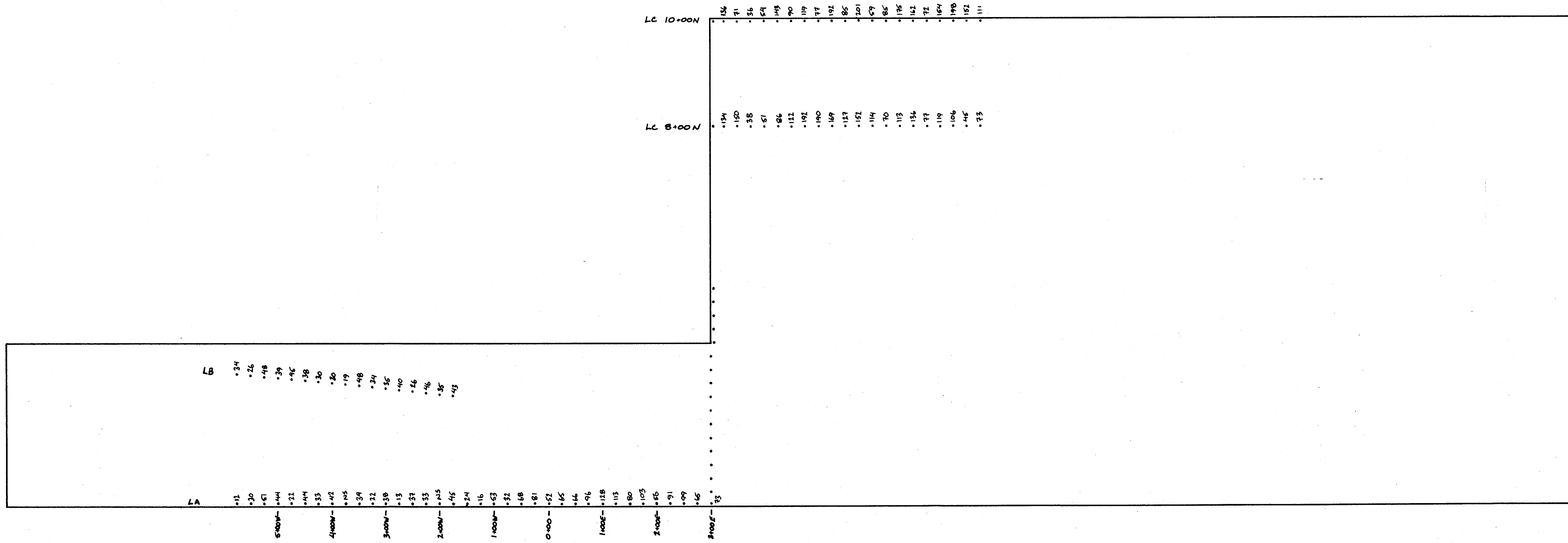
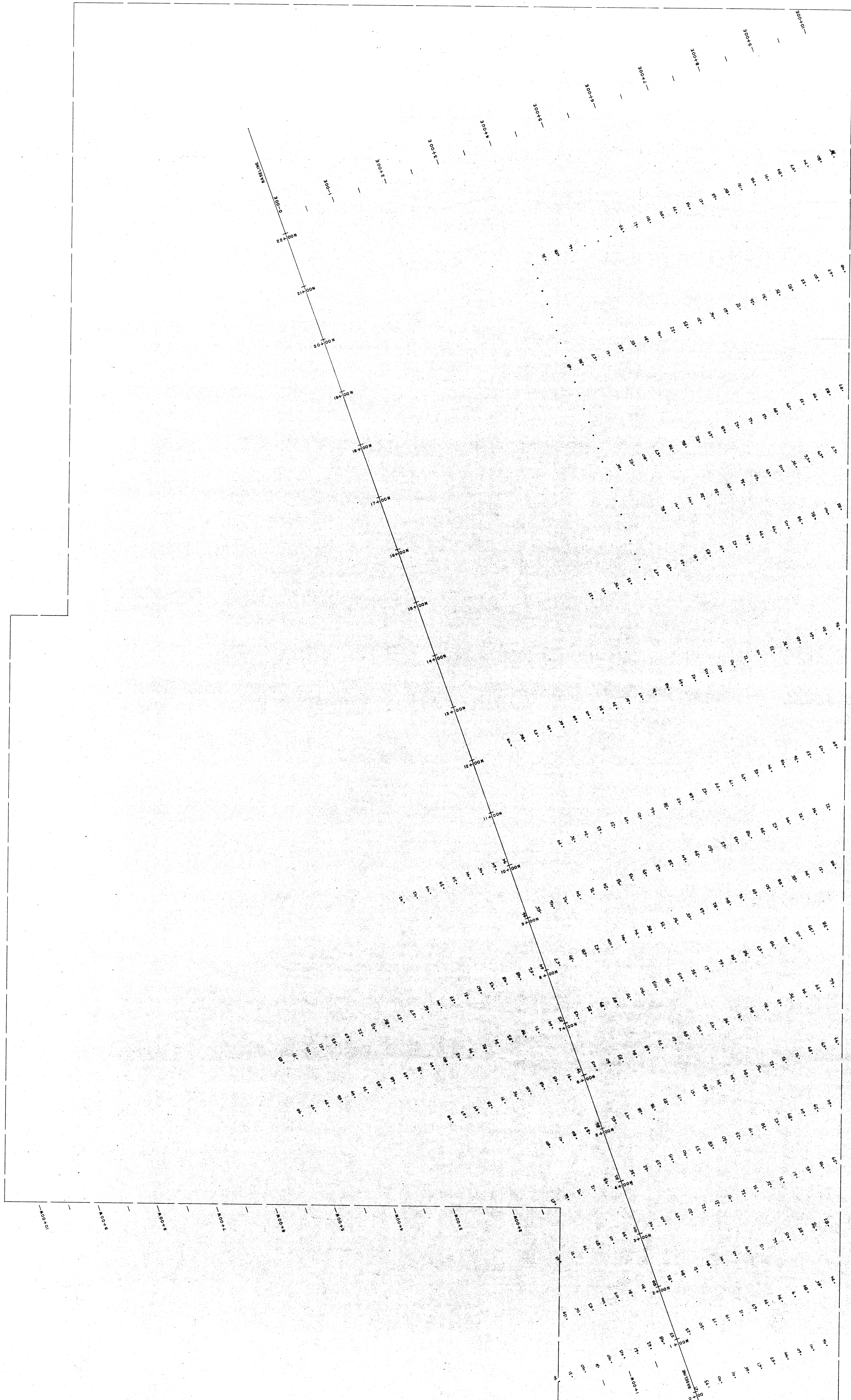
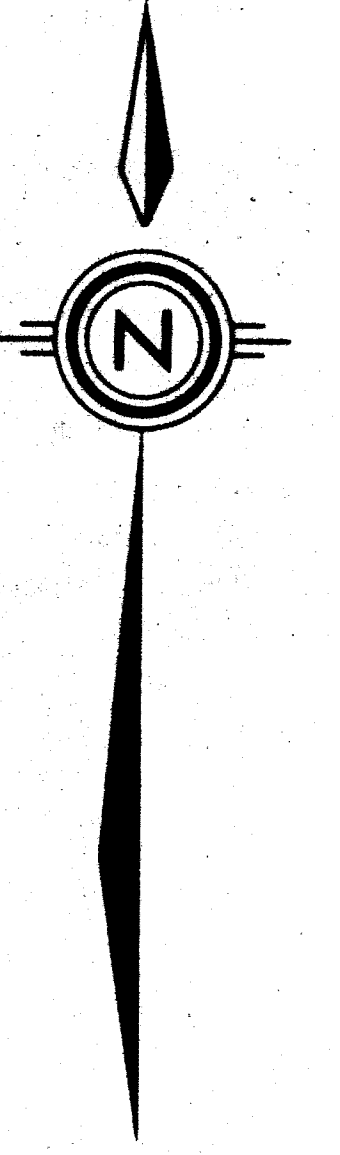
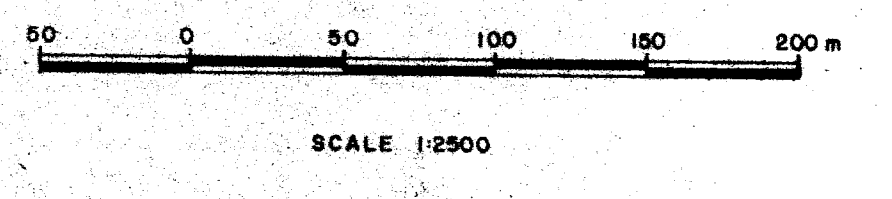


FIGURE 6A



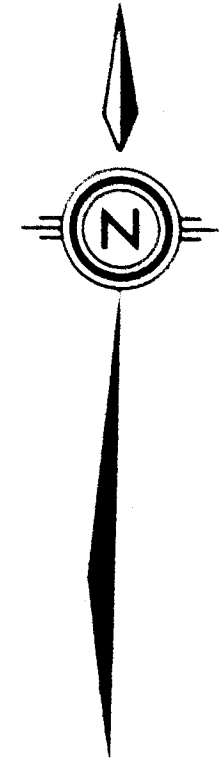
GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,822



SCALE 1:2500

SWIFT MINERALS LTD.	
McKINLAY PROPERTY	
SOIL GEOCHEMISTRY (ZINC ppm)	
COMPILED: R.S.V.	DATE: Dec 18, 1987



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,822



SCALE 1:5000

SWIFT MINERALS LTD.

McKINLAY-1 PROPERTY

SOIL GEOCHEMISTRY

LEAD

COMPILED: DV

DATE: DEC 1987

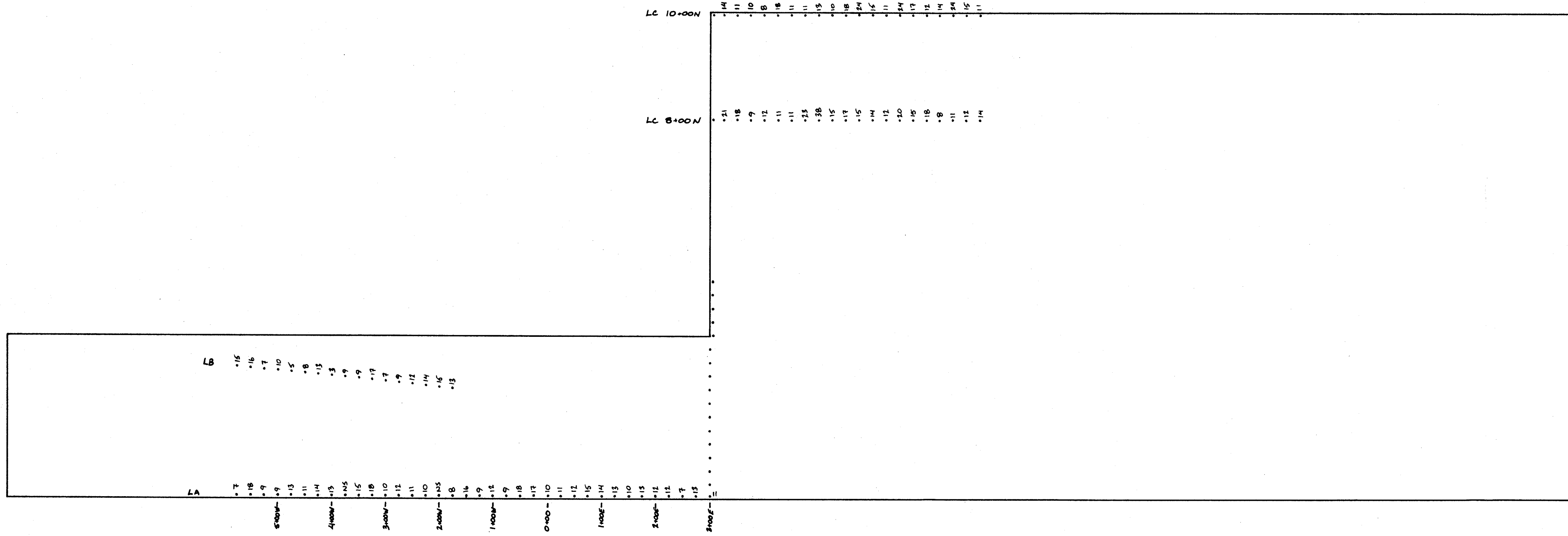
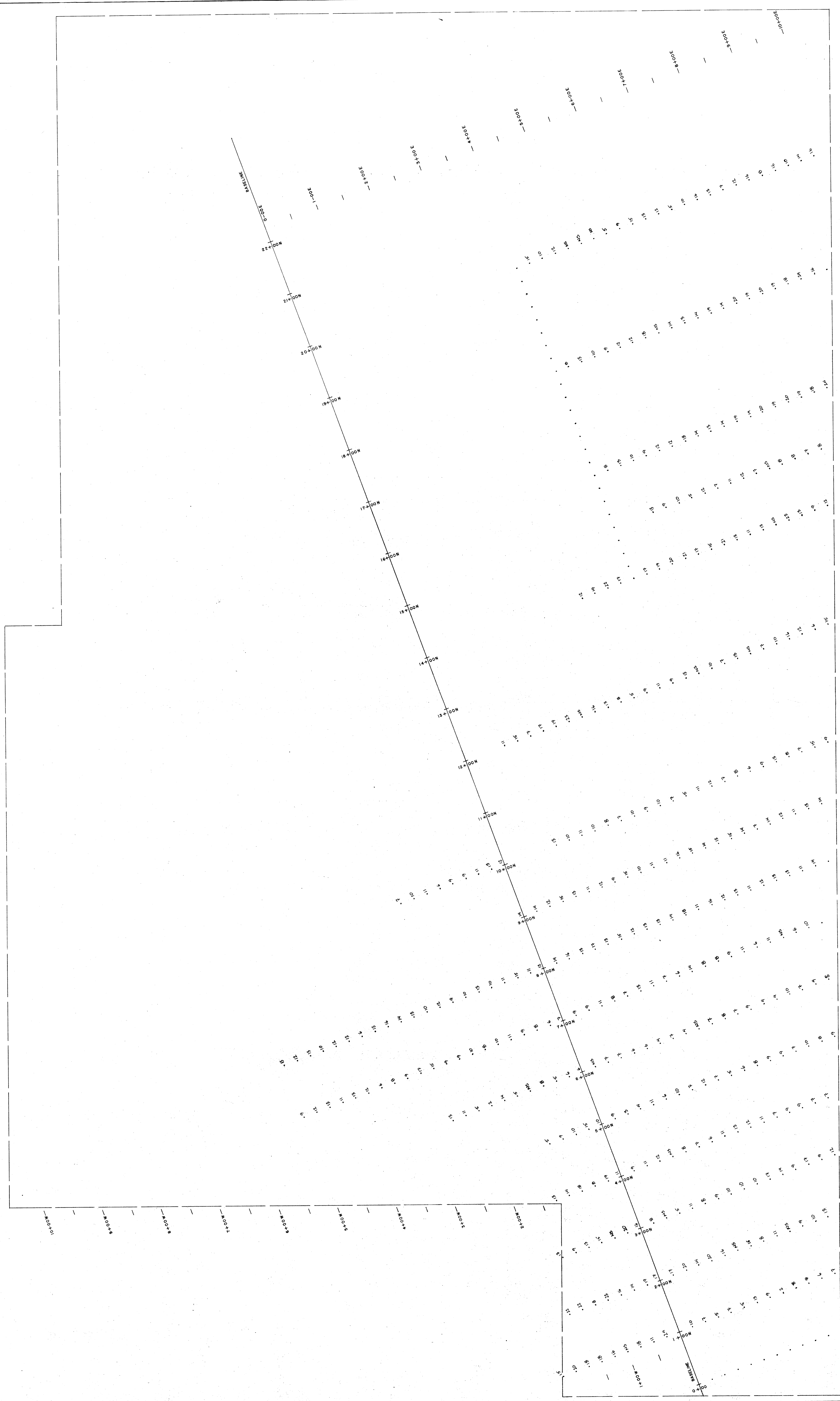
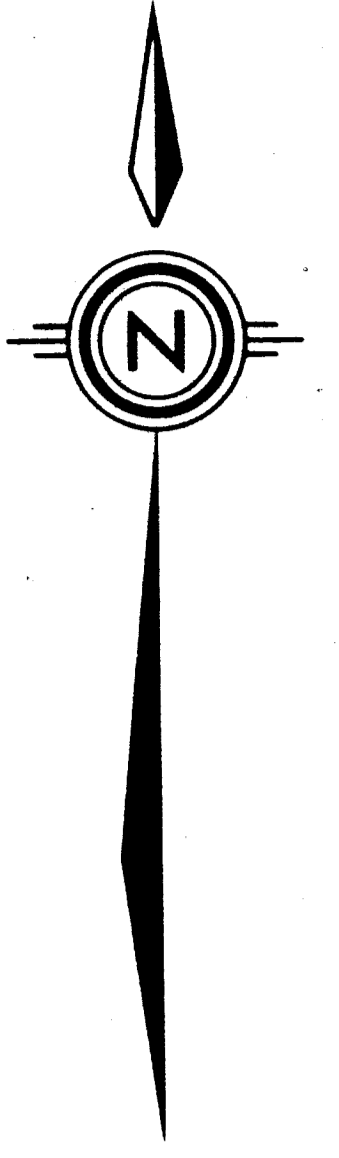
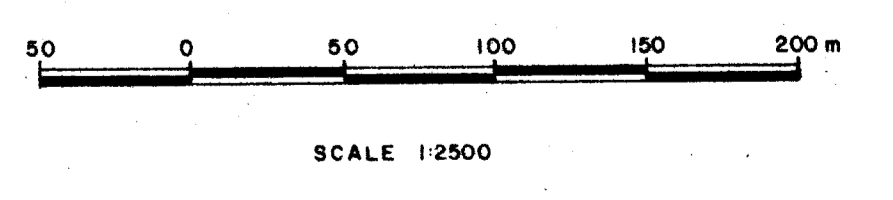


FIGURE SA



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,822



SWIFT MINERALS LTD.	
McKINLAY PROPERTY	
SOIL GEOCHEMISTRY	
(LEAD ppm)	
COMPILED: R.S.V.	DATE: Dec 13, 1987



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,822



SCALE 1:5000

SWIFT MINERALS LTD.

McKINLAY-1 PROPERTY

SOIL GEOCHEMISTRY

COPPER

COMPILED: RV

DATE: DEC 1987

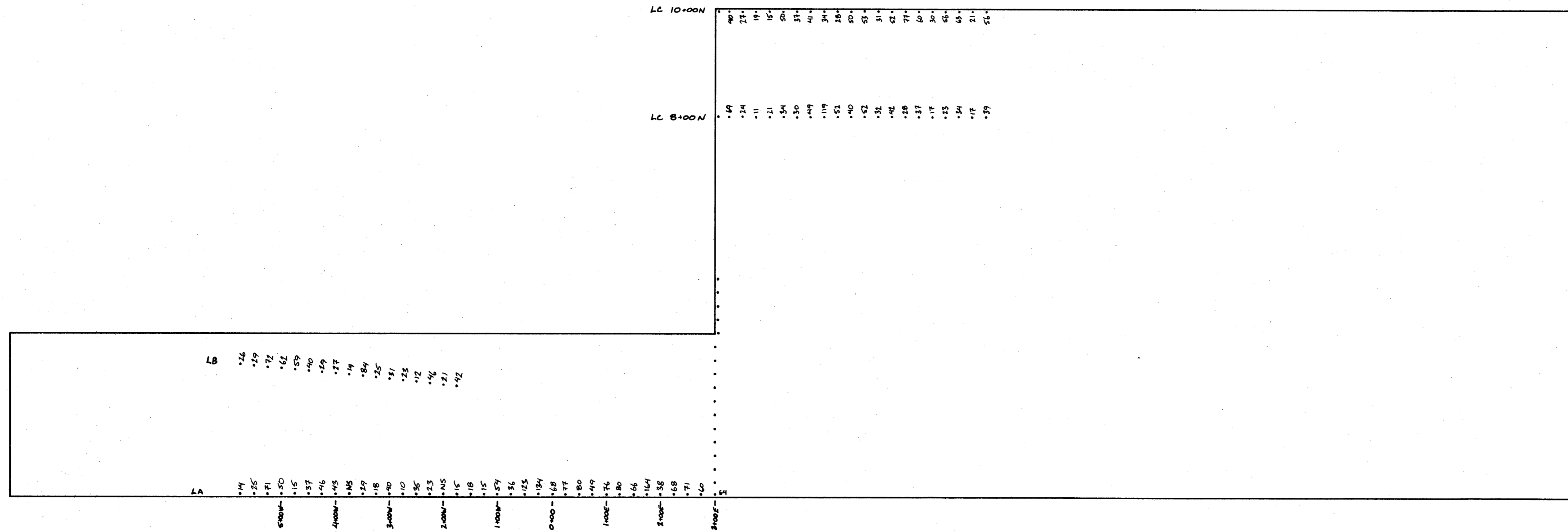
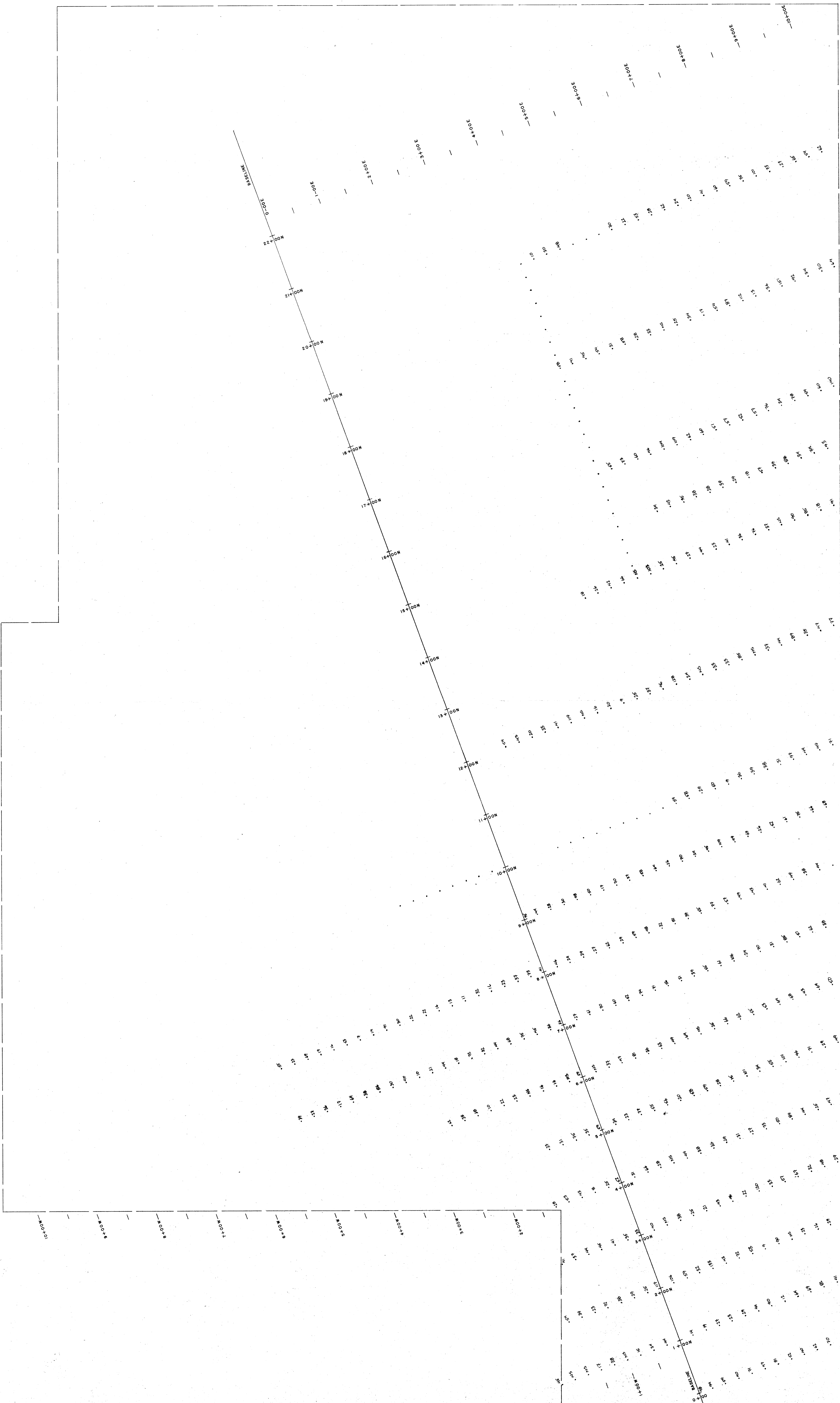
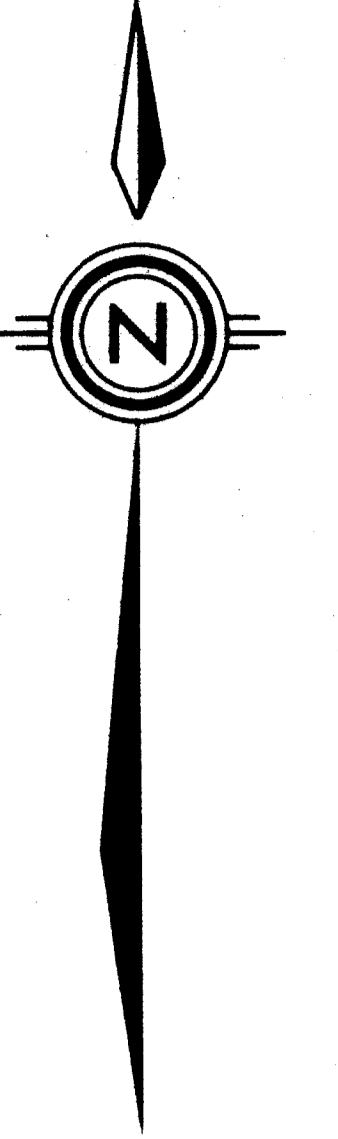
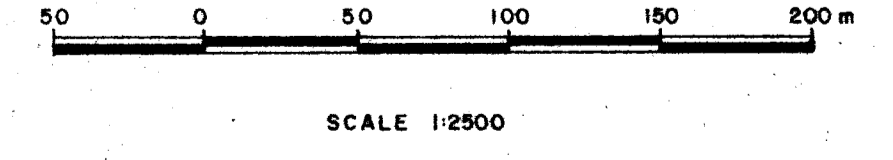


FIGURE 4A



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,822



SCALE 1:2500

SWIFT MINERALS LTD.	
McKINLAY PROPERTY	
SOIL GEOCHEMISTRY	
(COPPER ppm)	
COMPILED: R.S.V.	DATE: Dec. 19, 1987