

1981 GEOCHEMICAL ASSESSMENT REPORT

Property: VICTORIA GROUP

Claims: Victoria No. 6, Galt, Belt, St. Charles,  
Marie Fr.

Location: Sandon B.C. - Slocan, M.D.  
82F 14E  
49° 58' N 117 13' W

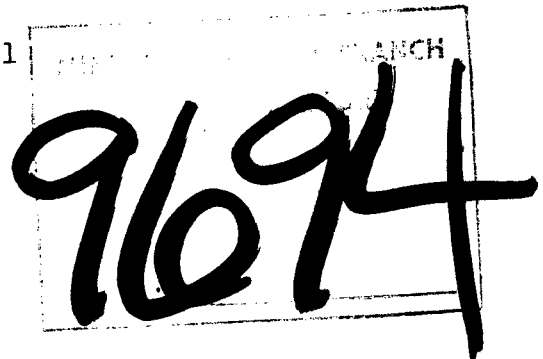
Owner and

Operator EROS RESOURCES INC.  
2602-1055 West Georgia Street  
Vancouver, B.C., V6E 3P3

Author: L. Sookochoff, P.Eng.  
Pan-American Consultants Ltd.  
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Dates of Work: August 27, 1981 - August 29, 1981

Date of Report: October 23, 1981



## TABLE OF CONTENTS

INTRODUCTION-----	1.
SUMMARY-----	2.
CONCLUSIONS AND RECOMMENDATIONS-----	3.
PROPERTY-----	4.
LOCATION AND ACCESS-----	4.
WATER AND POWER-----	5.
PHYSIOGRAPHY-----	5.
CLIMATE-----	5.
HISTORY-----	6.
GEOLOGY AND MINERALIZATION-----	7.
GEOCHEMICAL SURVEY-----	9.
REFERENCES-----	12.
CERTIFICATE-----	13.

### ILLUSTRATIONS

### SCALE

MAP 1	LOCATION AND CLAIM MAP	1 : 50,000
MAP 2	GEOCHEMICAL RESULTS - PB	1 : 3,600
MAP 3	GEOCHEMICAL RESULTS - ZN	1 : 3,600
MAP 4	GEOCHEMICAL RESULTS - AG	1 : 3,600
MAP 5	GEOLOGY	1 : 3,600
MAP 6	COMPOSITE	1 : 3,600

Geochemical Report

on the

VICTORIA GROUP

of

EROS RESOURCES INC.

INTRODUCTION

A preliminary geochemical survey was completed on the Victoria Group of Eros Resources Inc. the purpose of which was to assess the geochemical survey method for the location of potential silver bearing structures in this specific area. Forty-four soil samples were taken along two north-south lines to establish the viability of a geochemical survey to locate mineralization in this geological environment. The field work was carried out during the period of August 27 to August 29, 1981.

SUMMARY

In August 1981 a localized soil geochemistry survey was completed on the Victoria Group of Eros Resources Inc. The property is located one-half of a kilometer to the north of the producing operations of Dickenson Mines at Sandon, B.C.

The Sandon area was the center of production of silver-lead-zinc ores from the Slocan mining Division from the 1890's into the 1920's. The ores were predominantly derived from localizations within shear zones or lode structures. The area contains numerous small tonnage high grade mineral localizations however the potential is present for larger zones of continuous mineralization. As an example Silvana Mines (Dickenson Mines) in 1979 reported a six month production averaging 15.81 oz silver per ton and 5.17% lead and 5.11% zinc. To the end of July 1979 probable tonnage on the Silvana property was estimated at 66,000 tons.

A 1925 report indicates that the workings on the Victoria Group (Victoria No. 6 and Galt) include three adits which were excavated on mineralized zones. One of the adits were located with a dump containing massive sulphides. A selected sample from the dump assayed .25% Pb, .5 oz. Ag/ton and 16% Zn.

In the geochemical survey two prime correlative anomalies in addition to a number of localized geochemical anomalies were delineated. A correlative lead-zinc-silver anomaly occurs adjacent to the adit zone with a second at the northern portion of the survey area.

#### CONCLUSIONS AND RECOMMENDATIONS

The geochemical survey has been successful in delineating two prime correlative anomalous zones which could be expressions of mineral bearing shear or lode structures. If the adit zone is an expression of contained sulphides such as exposed on the adit dump the northern zone could be an expression of a similar lode zone.

The adit zone should be examined in the workings with an objective of locating and tracing the extensions of lode structures.

An exploration program should also be initiated on the northern correlative zone in addition to examining the causative source for the localized anomalies.

A similar survey to cover the property should be completed to locate potential mineral bearing structures.

PROPERTY

The property is comprised of five contiguous reverted crown grants situated adjacent and to the east of Sandon B.C.

Particulars of the claims are as follows:

<u>Claim</u>	<u>Record No.</u>	<u>Expiry</u>
Victoria No. 6	465 L:3154	August 29, 1983
Galt	467 L:594	August 29, 1983
Belt	464 L:2139	August 29, 1983
St. Charles	466 L:3264	August 29, 1983
Marie Fr.	468 L:6870	August 29, 1983

LOCATION AND ASSESS

The property is located at Sandon, B.C. which is seven km southeast of the junction with the New Denver-Kaslo highway. The gravel all-weather highway from the junction passes through the southwestern portion of the property. Additional access is provided via a former railroad right of way 500 meters northeast of the main highway.

The workings of the current silver-lead producing operations of Dickenson Mines are 5 km to the south. One km to the north is the recently reported high-grade silver-lead discovery of Hallmac Mines. Ltd.

WATER AND POWER

Sufficient water for all phases of the exploration and development program should be available from Carpenter Creek or from water courses on the property.

PHYSIOGRAPHY

The property extends from the valley floor at an elevation of 1060 m to 1650 m on the south facing slopes of Carpenter Creek. Moderate to steep slopes prevail.

CLIMATE

The area is within a relatively heavy snowfall belt where the property may be snow free for only a seven month field season. However snowfall or inclement weather conditions would not hamper underground exploration or development work.

HISTORY

The 1896 Report of the Minister of Mines refers to workings on the Argo Group which at that time included the Marie Fr., Belt, Loudon, and St. Charles claims. Reference is made to workings that "include three short adits driven to explore a lode at the surface ..." However the report states that there is "... little trace of ore mineralization" Reference is also made to ore "... found during the past summer, and on the surface in one place the vein was cleared off on 10 to 12 feet, showing a maximum of three to four feet of solid ore. A tunnel, then 45 feet long was being driven to explore this new ledge."

In 1917 two tons were shipped from the Victoria Group (Victoria No. 6 and Galt) which yielded an average of 30 ounces of silver/ton and 42% Pb.

From 1922 it is reported that "some 450 feet of underground work has been done and about 5 tons of ore shipped. This ore is stated to have carried an average of 49 per cent lead and 112 ounces of silver to the ton."



## GEOLOGY AND MINERALIZATION

The property area is underlain by sedimentary rocks of the Slocan Series which have been intruded by dykes and stocks of intrusives related to the Nelson Intrusives.

The Slocan Series are comprised of slates, argillites and quartzites which are regionally folded to a southeast trending recumbant fold.

The property is predominantly underlain by the Slocan Group sediments including quartzitic and black pelitic sedimentary beds. Dioritic intrusives occur along the eastern edge of Victoria No. 6 which parallels a topographic structural related low. From the Minister of Mines 1925 reference the sediments strike northwesterly with dips varying from  $40^{\circ}$  NE to  $45^{\circ}$  SW. A description of the workings from the 1925 report indicates pertinent geological data.

"The workings include three adits over a vertical range of 155 feet. The uppermost is about 210 feet long. It is driven in blocky granite porphyry and black argillites and follows a mineralized fault fissure striking about north 35 degrees east, dipping from 70 degrees southeast to vertical and containing from 1 to 10 inches of crushed rock and gouge with here and there a little vein mineralization consisting of a mixture of galena, blende, abundant pyrite, and quartz. One small stope 10 feet long and 8 feet high was noted at 50 feet from the portal.

No. 2 adit, 95 feet below No. 1, has been driven for 40 feet north 30 degrees east and follows a mineralized fault fissure along the contact of argillites with quartz porphyry. The fissure dips 60 degrees to the southeast. It is marked along the hanging-wall by 2 inches of gouge against which from 2 to 10 inches of vein matter, carrying abundant pyrite, has formed.

No. 3 adit, 60 feet below No. 2, is 318 feet long. For the first 160 feet from the portal it follows a mineralized fault fissure, 2 to 30 inches wide, composed of gouge and crushed rock and containing a few small bunches of vein matter carrying ore minerals. The fissure strikes about northeast and dips 45 degrees to 75 degrees southeast. The wall-rock is chiefly broken, black argillites except at the portal where the adit passes through a few feet of quartz porphyry. At 162 feet from the portal the adit meets a cross-slip striking north 50 degrees west and dipping 40 degrees southwest. From about this point the adit was continued as a crosscut for 42 feet to a point where it meets the hanging-wall of the quartz-porphyry dyke; it follows this for a few feet to where another slip striking north 25 degrees west and dipping 45 degrees southwest was encountered. The adit follows this slip to the face, but no significant mineralization was discovered.

Lacking a survey connecting workings, and traceable outcrops no attempt was made to correlate the vein fissures from one level to another. The mineralization is similar in type to that on a number of properties on the lower northern slope of Carpenter Creek Valley on either side of Sandon. Pyrite is an abundant and characteristic mineral. The ore occurs in small pockets or shoots commonly distributed along fissures or shear zones in contact with or close to one or other of the numerous minor intrusives penetrating the Slocan series. The abundance of pyrite suggests that only the lower portions of what may have been a more extensively mineralized zone remain for exploration, the upper portions having been eroded."

In the geochemical traverse an old working was located at 300 N 25 E. The drift appeared to extend for at least 30 meters with evidence of the intersection of massive sulphides on the dump. Two selected grab samples from the dump returned .17% Pb, .275 oz Ag/ton, 12% Zn and .24% Pb, .5 oz Ag, 16% Zn. In addition a spectrographic analysis of a selected grab sample returned 1 oz. Ag/ton and anomalous arsenic values.

### GEOCHEMICAL SURVEY

#### Survey Method

Two lines - a baseline and line 75E - were utilized as a base for the selection of soil samples. Samples were taken at 25 meter intervals along the lines which extend for 500 meters at 028 from a road paralleling and 300 meters northeast of Carpenter Creek. Red flagging with the grid co-ordinate marked thereon was placed at each sample site. A total of 44 samples were taken.

The soil samples were taken from the B soil horizon which in this area is a brown to reddish brown silty loam. A shovel was utilized to obtain a sample at a depth of 18 to 25 cm. The samples were placed in brown wet-strength paper bags which were marked with the grid co-ordinates.

The samples were tested by Acme Analytical Laboratories of Burnaby, B.C. for the lead, zinc and silver content in parts per million. In testing, the sample is thoroughly dried, sifted through a -80 mesh screen and a measured amount is placed into a test tube. Hot aqua regia is then added to the tube and diluted with water. The lead, zinc and silver content is then determined by atomic absorption.

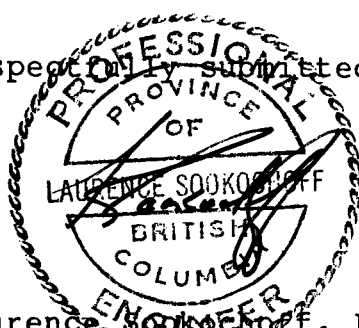
In assessing the results, a sufficient number of samples were not available to establish a dependent background and anomalous value. However from the available data, the anomalous values were determined for Pb, Zn and Ag as 140.400 and .9 ppm respectively. The sub anomalous values as indicated on the pertinent maps (2, 3 & 4) are not considered significant, however in isolated instances could be an indication of mineralization.

Based on the assays of samples taken from the adit zone which returned substantial zinc values, lode structures would be expressed predominantly by zinc values in the soil. Thus anomalous areas in zinc would be significant areas for additional exploration. However correlative lead, zinc and silver zones would be more significant in that the potential is present for lead-with associated silver-within zinc bearing lode structures.

Two correlative areas have been delineated in the survey. An anomalous zone at 75 E 250 N-275 N is present which could be an expression of down hill ion migration from the adit zone dump which contains sulphide bearing material. The anomalous zone indicated at BL 275 N - 300 N and 250 N - 300 N 75 E could be a surface expression of an east west trending lode structure as is the case at 500 N BL to 50 E.

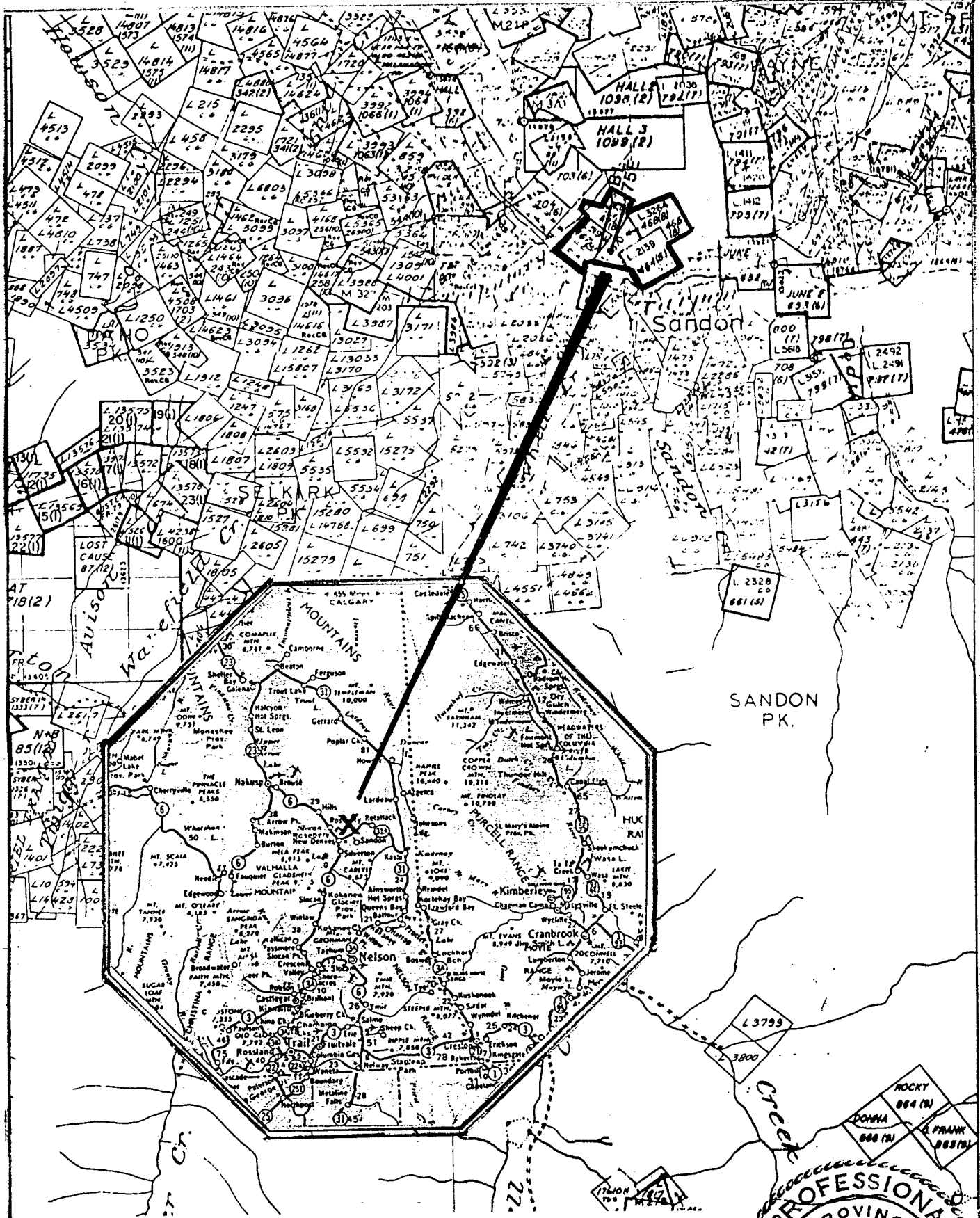
Other indicated anomalous zones and more specifically at BL ON, 50 N to 75 N, 125 N to 200 N and 75 E 75 N to 100 N, 125 N to 150 N could be expressions of lode structures and should be examined.

Respectfully submitted,



Laurence Sookosoff, P.Eng.  
Consulting Geologist

October 23, 1981  
Vancouver, B.C.



**EROS RESOURCES INC.**  
 Victoria Group 82F 14 E  
**INDEX MAP**



October 1981

REFERENCES

B.C. MINISTER OF MINES REPORTS

1925 p. 244

GOLDSMITH, LOCKE B. et al. - Preliminary Report on the Victoria  
Group for Eros Resources Inc., Arctex  
Engineering Services, January 1981

THE NORTHERN MINER - September 13, 1979 p. 13

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 the firm of Pan-American Consultants Ltd. of 2602-1055 West Georgia Street, Vancouver, B.C.

I further certify that:

1. I am a graduate of the University of British Columbia (1966) and hold a B.Sc. degree in degree in Geology.
2. I have been practising my profession for the past fourteen years.
3. I am registered with the Association of Professional Engineers of British Columbia.
4. The information for the accompanying report was obtained from pertinent publications, and from field work carried out from August 27 to August 29, 1981.

Laurence Sookochoff, P.Eng.  
Consulting Geologist

October 23, 1981  
Vancouver, B.C.





Eros Resources Inc. - Geochemical Survey

Statement of Expenditures

August 27 - August 29, 1981

L. Sookochoff 2 days at \$300 August 27-28, 1981	\$600
G. Nakade 1 day at \$150 August 28, 1981	150
Auto rental 2 days at \$35	70
plus 1,280 km at .10	128
Room and board	90
Assays	132
Report	<u>850</u>
	\$2,020



MINERAL RESOURCES BRANCH  
 9694  
 NO.



- LEGEND**
- RAILWAY (abandoned)
  - ROAD, TRAIL
  - HOUSE
  - STATION
  - DRIFT
  - PIT
  - BEDDING
  - FRACTURE

**PARAMETERS**

140 PPM	ANOMALOUS
100 PPM	SUB ANOMALOUS

MAP 2

PAN AMERICAN CONSULTANTS LTD.

**EROS RESOURCES INC.**  
 VICTORIA GROUP 82F-14E

**GEOCHEMICAL RESULTS - Pb**

0 100 200 METRES

SCALE 1:3600 (1"=300')

OCTOBER 1981

TO ACCOMPANY GEOCHEMICAL REPORT BY L. SOOKCHOFF, P. ENG.



9694



MAP 3

PAN AMERICAN CONSULTANTS LTD.

EROS RESOURCES INC.

VICTORIA GROUP 82F-14E

**GEOCHEMICAL RESULTS - Zn**

0 100 200 METRES

SCALE 1:3600 (1"=300')

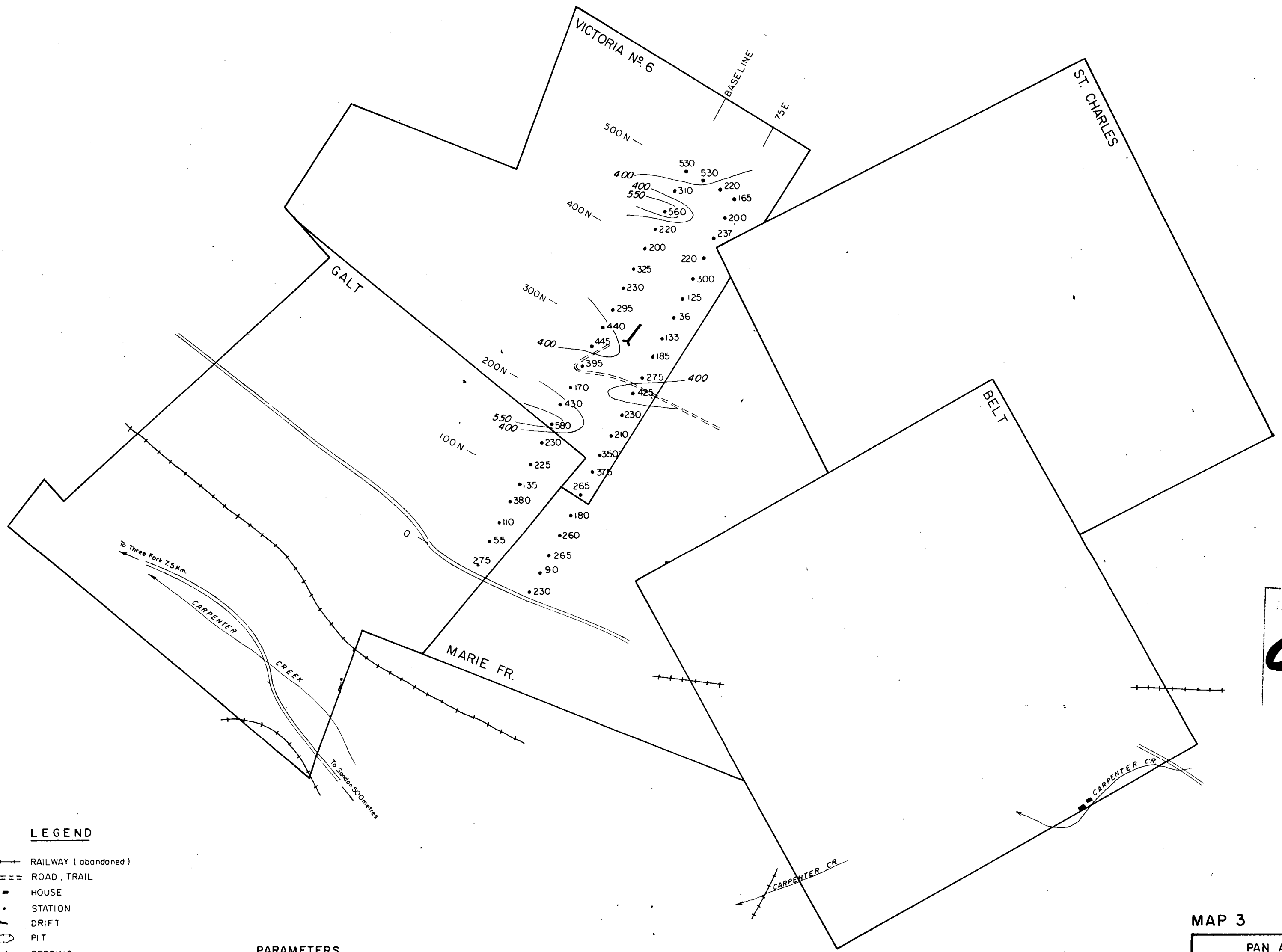
OCTOBER 1981

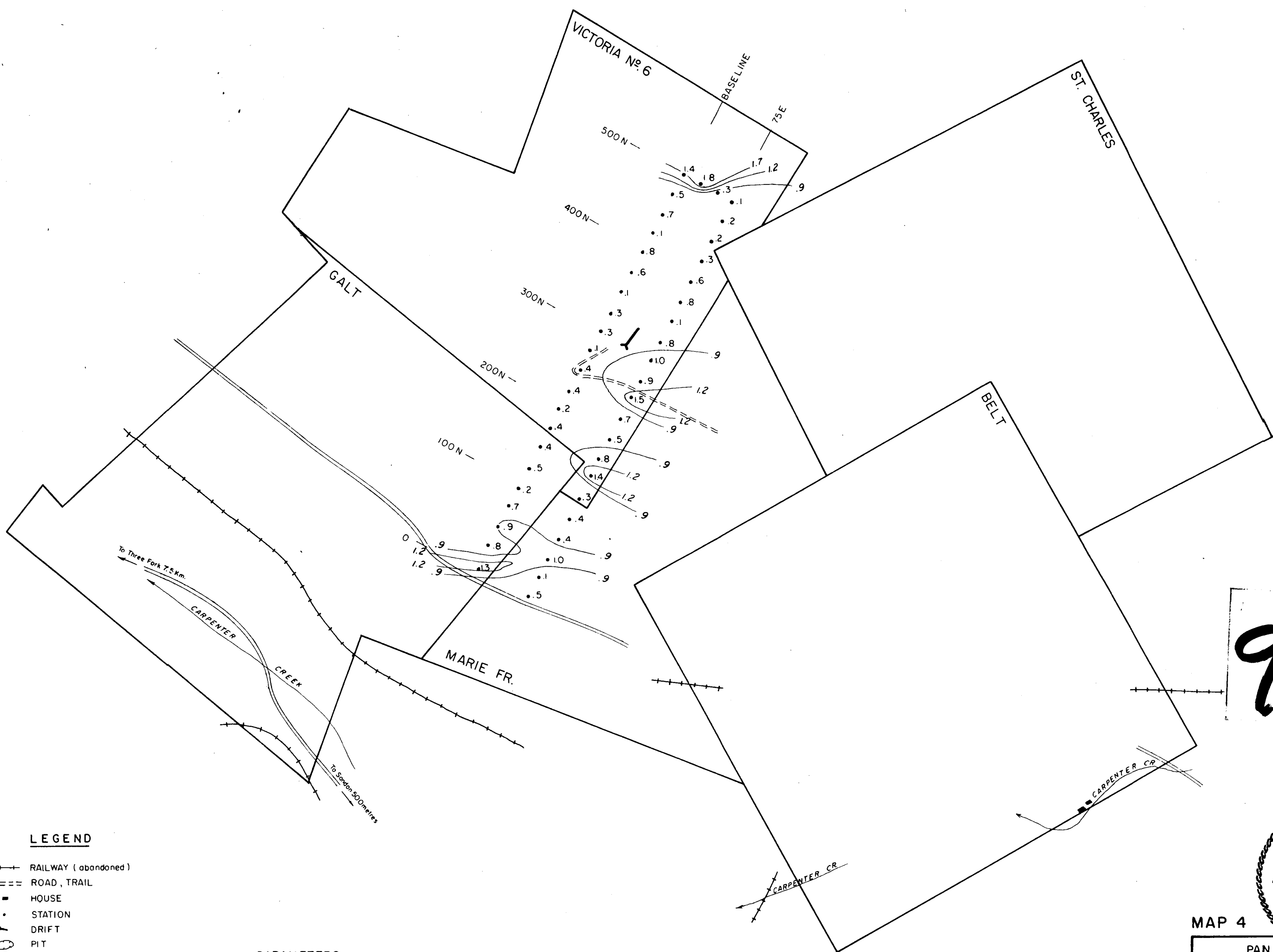
TO ACCOMPANY GEOCHEMICAL REPORT BY L. SOOKCHOFF, P. ENG.

**PARAMETERS**

400 PPM	ANOMALOUS
275 PPM	SUB ANOMALOUS

- LEGEND**
- RAILWAY (abandoned)
  - ROAD, TRAIL
  - HOUSE
  - STATION
  - DRIFT
  - PIT
  - BEDDING
  - FRACTURE





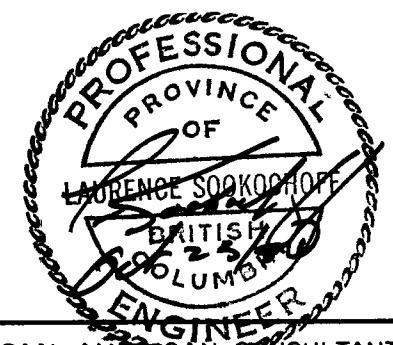
9694

**LEGEND**

- RAILWAY (abandoned)
- ROAD, TRAIL
- HOUSE
- STATION
- DRIFT
- PIT
- BEDDING
- FRACTURE

**PARAMETERS**

- 9 PPM ANOMALOUS
- 4 PPM SUB ANOMALOUS



MAP 4

PAN AMERICAN CONSULTANTS LTD.

**EROS RESOURCES INC.**

VICTORIA GROUP 82F-14E

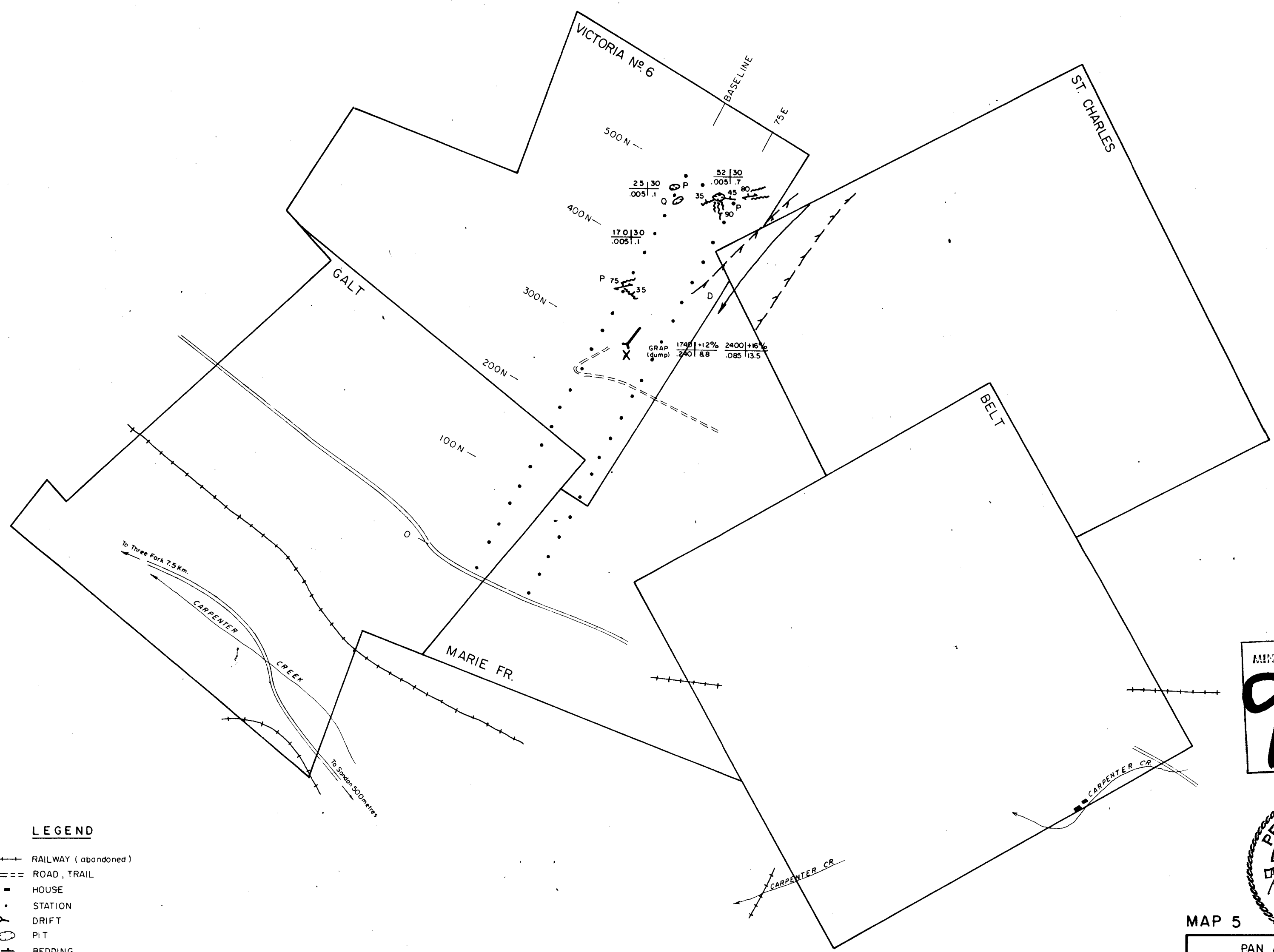
**GEOCHEMICAL RESULTS-Ag**

0 100 200 METRES

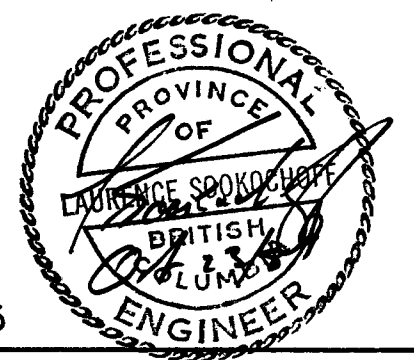
SCALE 1:3600 (1"=300')

OCTOBER 1981

TO ACCOMPANY GEOCHEMICAL REPORT BY L. SOOKOCHOFF, P. ENG.



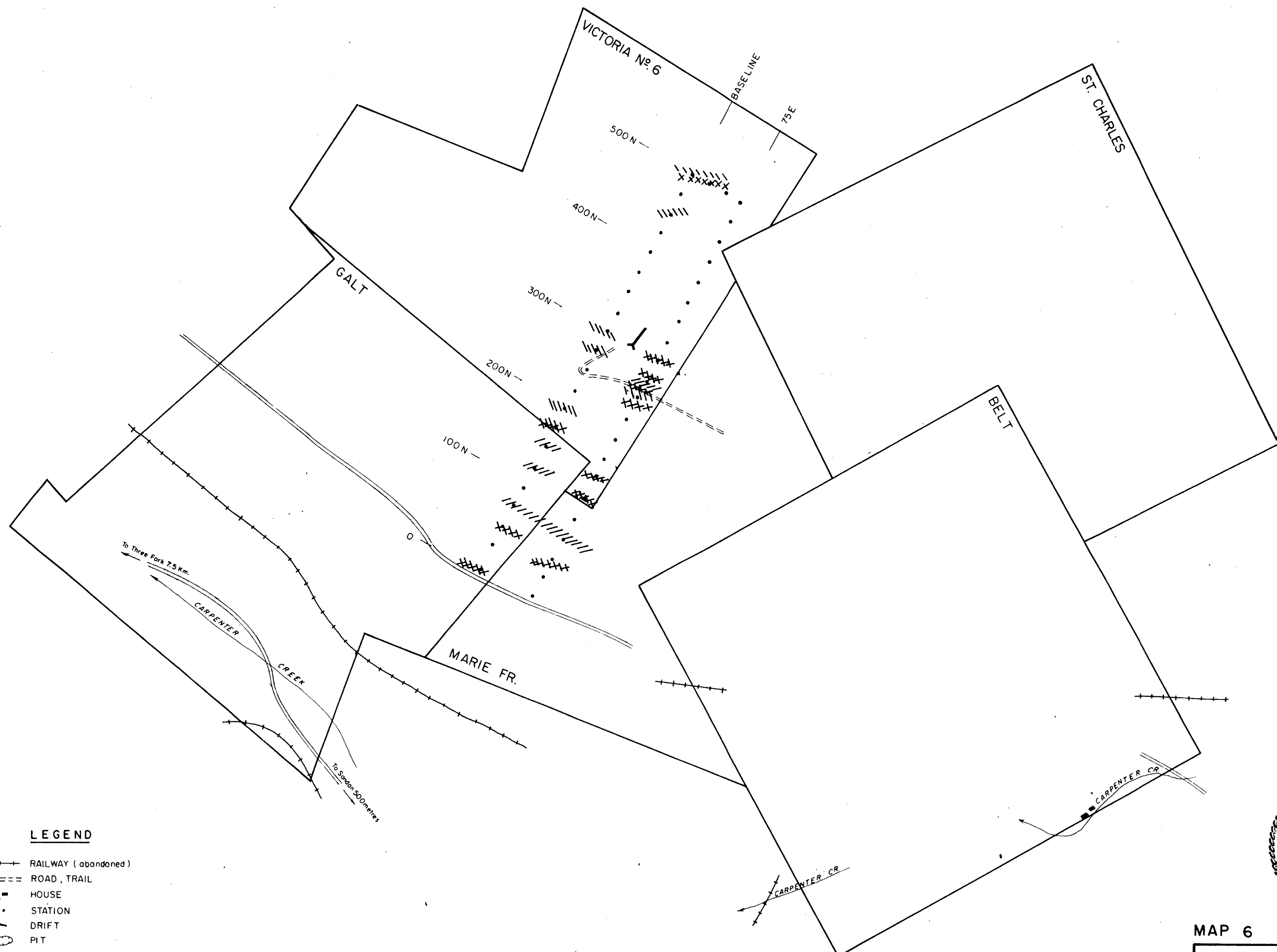
MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**9694**  
NO.



MAP 5  
PAN AMERICAN CONSULTANTS LTD.  
EROS RESOURCES INC.  
VICTORIA GROUP 82F-14E  
**GEOLOGY**  
SCALE 1:3600 (1"=300') OCTOBER 1981

- LEGEND**
- RAILWAY (abandoned)
  - ROAD, TRAIL
  - HOUSE
  - STATION
  - DRIFT
  - PIT
  - BEDDING
  - FRACTURE
  - FISSILE SHEAR ZONE
  - $\frac{52}{.0051} \frac{30}{.7}$   $\frac{Pb}{Au} \frac{Zn}{Ag}$  Rock chip sample - ppm
  - P PELLITIC SEDIMENTS
  - D DIORITE

TO ACCOMPANY GEOCHEMICAL REPORT BY L. SOOKOCHOFF, P. ENG.



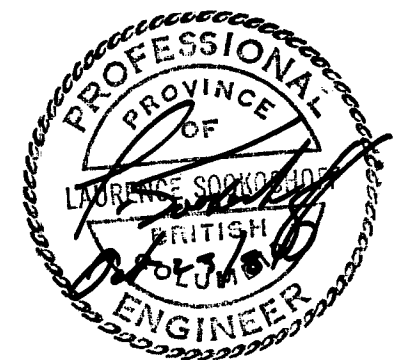
**LEGEND**

- RAILWAY (abandoned)
- ROAD, TRAIL
- HOUSE
- STATION
- DRIFT
- PIT
- BEDDING
- FRACTURE

**ANOMALOUS ZONE**

- SILVER
- LEAD
- ZINC

MINERAL INDUSTRIES OF BRITISH COLUMBIA  
ASSESSMENT PROJECT  
**9694**



MAP 6

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**EROS RESOURCES INC.**  
 VICTORIA GROUP 82F-14E  
**COMPOSITE**

0 100 200 METRES  
 SCALE 1:3600 (1" = 300') OCTOBER 1981

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