

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

11,351

GEOCHEMICAL REPORT

ON THE SLEWISKIN GROUP MINERAL CLAIMS,

NAKUSP AREA

SLOCAN MINING DIVISION

NTS 82 K4E

50° 4' 30" N; 117° 39' 45" W

FOR

TILLICUM GOLD MINES LTD.

470 GRANVILLE STREET,

VANCOUVER, B.C.

BY

Jonathan W. George (Geol.)

October 15th, 1983

Consultant:

H.M. Jones
G.A. Noel & Assoc.

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INTRODUCTION

This report is an evaluation of geochemical work carried out on the Slewiskin Group of mineral claims between May 11th 1983 and September 24th 1983.

Location and Access

The property is located in the Slocan Mining Division, 20km southeast of Nakusp (fig. 1). It is easily reached by well-travelled logging roads which traverse the claims.

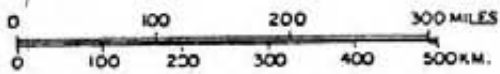
The area is readily accessible from Nakusp via Highway 6, and the Slewiskin Forestry road, which turns off to the east, 11km south of Nakusp. From this turn it is approximately 14km to the claim area. Almost all of the claim area can be reached by logging roads, with the exception of the Big 3 #1 claim, which is inaccessible by road.

Topography and Vegetation

The property is located within the Valhalla Range of the Selkirk Mountains. Topography is moderate to steep, and slopes are forested by cedar, spruce, balsam, fir and hemlock. Tree line is at about 2000m. Elevations range from 1200m to 2440m.



**PROPERTY
LOCATION**



TILlicUM GOLD MINES LTD		
G. A. NOEL & ASSOCIATES INC.		VANCOUVER, B.C.
SLEWISKIN PROPERTY LOCATION MAP		
NAKUSP AREA		— SLOCAN M.D., B.C.
SCALE - AS SHOWN	JUNE 1983	FIG. 1
H. M. J.		

OWNERSHIP

The Slewiskin Group consists of eight mineral claims (fig. 2).

They are:

<u>Claim name</u>	<u>Record No.</u>	<u>No. of Units</u>	<u>Expiry Date</u>
Big 3 - 1	2968 (8)	8	Aug. 17, 1983
Big 3 - 2	2969 (9)	8	Aug. 17, 1983
Sunshine 1	3343 (11)	12	Nov. 1, 1983
Sunshine 2	3344 (11)	12	Nov. 1, 1983
Sub 1	3345 (11)	12	Nov. 1, 1983
Sub 2	3346 (11)	14	Nov. 1, 1983
Dore	3347 (11)	20	Nov. 1, 1983
Walton	3885 (6)	10	June 15, 1984

All of the above claims are owned by Tillicum Gold Mines Ltd., 470 Granville Street, Vancouver, B.C. The claims, all contiguous were grouped into the Slewiskin Group on September 14th, 1983.

As a result of extremely active staking in the area, overlapping of claims is common. Figure 2 shows that portion which is not overstaking of adjacent ones.

117° 40'

SLEWISKIN CREEK

SUNSHINE I
3343 (II)

SUNSHINE 2
3344 (III)

DORE
3347 (II)

50° 05'

BIG 3-1
2968 (B)

BIG 3-2
2969 (B)

SUB 2
3346 (B)

SUB 1
3345 (II)

WALTON

CARIBOU CREEK

Shannon Cr.

○ LEGAL CORNER POST



TILLICUM GOLD MINES LTD.

G.A. NOEL & ASSOCIATES INC. VANCOUVER, B.C.

SLEWISKIN PROPERTY CLAIM MAP

NAKUSP AREA — SLOCAN M.D., B.C.



SCALE 1:50,000

JUNE 1983

FIG 2

H.M.J.

HISTORY

Burton, situated on the Columbia River and Miner City, six miles up Caribou Creek were active gold placer and lode mining centres in the late 1800's to early 1900's. Many gold discoveries were made, including the Millie Mac Mine, which produced 300 ton's grading 1.0 oz/ton gold and 70 oz/tons silver, up to 1930. A few small shipments were also made between 1960 and 1979, which graded between 0.21 - 0.43 oz/tons gold, 8.4 - 9.8 oz/ton silver and 2% - 4% lead-zinc.

From the 1930's to 1979 there was little mining activity, until Arne Gustafson made a spectacular gold discovery on Tillicum Mountain. The property was optioned to Esperanza Explorations, who, in a joint venture with La Teko Resources, have been conducting an intensive exploration program. To date, they have located several areas of significant gold mineralization. The successes on the La Teko - Esperanza property has led to the staking of many claims in the area and a high level of exploration activity.

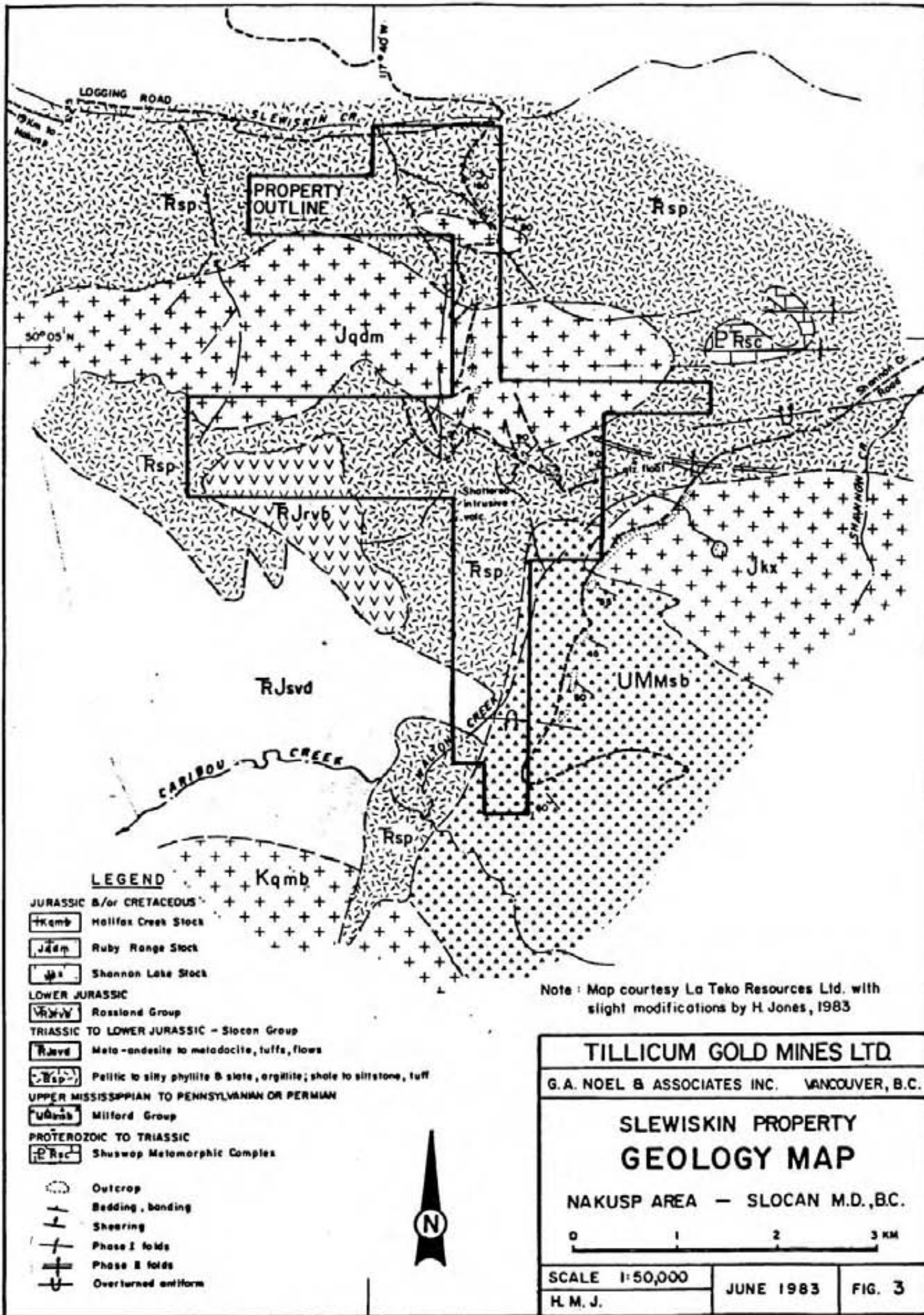
GEOLOGY

Harold M. Jones, acting as consultant, visited the property in June 1983 and has observed the following:

The general geology of the area included Upper Mississippian to Pennsylvanian of Permian Milford Group and Triassic to Lower Jurassic Slocan Group metavolcanics, metasediments, sediments and flows. They lie in a northwesterly-trending belt between the Slocan syncline to the north and the Valhalla dome to the south (fig. 3).

The structure of the area is complex and three major periods of folding have been suggested. A generally easterly trend is developed about axial planes which dip to the north and are overturned increasingly southward closer to the Valhalla dome.

Intrusive rocks post-date the folding events. Jurassic and/or Cretaceous stocks envelope the Milford and Slocan Groups as well as occurring within them as small stocks or plugs. A considerable part of the property and one intrusive Milford Group contact on or near the southeastern claim boundary.



GEOCHEMICAL SURVEY

A geochemical survey was carried out on the Slewiskin Group between May 11th 1983 and September 24, 1983 to establish areas of anomalous gold and silver values on the claims. A total of 554 soil and silt samples were collected by an experienced two-man crew under the supervision of the writer. A 1:5000 base map was acquired to assist the survey.

285 soil samples were gathered along ridges and contours at intervals of 50 metres and 25 metres. B horizon material located between 25cm to 40cm below surface, was sampled to avoid organic rich topsoil and leached upper sub soil.

269 drainage silt samples were collected by hand from tributary drainages of Walton and Slewiskin creeks, at 75m. intervals.

Samples were stored in Kraft paper bags and submitted to Acme Analytical Laboratories for analysis for gold and silver.

RESULTS

Analyses performed by Acme Analytical Laboratories are listed in Appendix I. Appendix II includes analytical methods used by Acme.

The results are plotted on Maps 1 and 2 (pouch) and show sample lines, analytical results, survey lines, and claim boundaries. A total of 554 samples were analyzed for gold and silver.

INTERPRETATION

Soil samples were analyzed for gold and silver. The results indicate a background value for gold of approximately 7 p.p.b. (Au) in the survey area. Threshold has been determined to be 25 p.p.b. (au) and values above threshold are considered anomalous.

Drainage sediment samples indicate a background value for gold to be 10 p.p.b. (Au); threshold 40 p.p.b. (Au), and values greater than 40 p.p.b. are considered anomalous.

DISCUSSION

Four areas of significant gold anomalies are evident on the Slewiskin Group. The most significant is located on the Doré claims (Map 2).

From field observations the most likely source of gold mineralization on the Doré claims, appears to be quartz veins which have intruded the Ruby Range Stock. The veins strike east-west, and range from 2 cm to 30 cm in width.

Massive pyrrhotite in quartz gangue has been found in float in the vicinity of the anomalous zone on the Doré claims. Though gold mineralization in the pyrrhotite is too low to account for local soil anomalies, it is possible that gold content in quartz veins increases with depth.

CONCLUSION

A geochemical survey carried out on the Slewiskin mineral claims group indicates areas of significantly anomalous concentrations of gold in soils and stream sediments.

Quartz veins, abundant in the Ruby Range stock, appear to host the mineralization responsible for anomalous gold values in the soils.

Detailed geological mapping and close interval geochemical gridding is necessary to determine target areas for future trenching and drill programs.

ITEMIZED COST STATEMENTOctober 19th, 1983

(Includes costs attributable to
bills received to date)

Exploration and development expenses May 11th, 1983 to Sep 24th, 1983

Personnel

24 working days - 2 men	1,920.00	
	<u>1,560.00</u>	
9 working days - 1 geologist	2,250.00	
	<u>5,730.00</u>	\$ 5,730.00

Accommodation and Board

Accommodation	554.34	
	<u>1,861.72</u>	
	\$2,416.06	2,416.06

Equipment

Topographical map 1:5000	2,523.33	
Equipment	<u>617.27</u>	
	\$3,140.60	3,140.60

Transportation

Gas	1,349.72	
4 x 4 and travelling	<u>1,784.59</u>	
	\$3,134.31	3,134.31

Analysis

Sample bags and ties	251.45	
Assays - 54 soil samples analyzed for Au, Ag; 7/sample	<u>3,872.05</u>	
	\$4,123.50	4,123.50

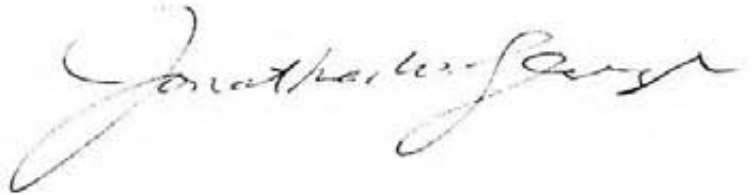
Report Preparation

	<u>600.00</u>
	\$19,144.47
	=====

I, Jonathan W. George certify to the following:

1. I am a geologist with Tillicum Gold Mines Ltd., Ground Floor,
470 Granville Street, Vancouver, B.C.
2. My academic qualifications are:
B.Sc (Geol.) Western Wash. University
Bellingham, Wash., USA
3. I have been engaged in geological and geochemical work for the
past five years.
4. I am a director and major shareholder of Tillicum Gold Mines Ltd.
5. Tillicum Gold Mines Ltd. has the sole right to the use of this
report in any activities pertaining to the properties herein
discussed.

Dated October 21, 1983



APPENDIX I

Sept 13/83

GEOCHEMICAL ASSAY CERTIFICATE

A .500 GM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.
 THE SAMPLE IS DILUTED TO 10 MLS WITH WATER. ELEMENTS ANALYSED BY AA : AG.
 SAMPLE TYPE : SOIL - DRIED AT 60 DEG C., -80 MESH.
 AU# - 10 GM, IGNITED HOT AQUA REGIA LEACH MIBK EXTRACTION, AA ANALYSIS.

ASSAYER *Dean Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

TILLICUM GOLD FILE # 83-2046A

PAGE# 1

SAMPLE	AG PPM	AU* PPB
DR-1 2+50S	.7	5
DR-1 2+60S	.5	5
DR-1 2+70S	.8	30
DR-1 2+80S	.6	5
DR-1 2+90S	.5	5
DR-1 3S	.6	5
DR-1 3+10S	.7	15
DR-1 3+20S	.5	5
DR-1 3+30S	.4	5
DR-1 3+40S	.1	5
DR-1 3+49.7S	.3	5
DR-1 3+50S	.5	5
DR-1 3+50.3S	.4	5
DR-1 3+60S	.6	5
DR-1 3+70S	.7	5
DR-1 3+80S	.6	5
DR-1 3+90S	.4	5
DR-1 4S	1.1	5
DR-1 4+10S	.9	5
DR-1 4+20S	.4	5
DR-1 4+30S	.3	5
DR-1 4+40S	.5	5
DR-1 4+50S	.3	5
T 1N	.2	5
T 0+90N	.4	5
T 0+80N	.2	5
T 0+70N	.7	80
T 0+60N	.5	5
T 0+50N	.4	10
T 0+40N	.6	5
T 0+30N	.4	5
T 0+20N	.3	5
T 0+10N	.6	5
T 0N	.5	5
T 0+10S	.3	5
T 0+20S	.1	5
T 0+30S	.1	5
T 0+40S	.6	290

522-8257

SAMPLE	AG PPM	AU* PPB
T 0+50S	.4	5
T 0+60S	1.1	10
T 0+70S	.8	15
T 0+90S	.7	5
T 1S	.6	5
ITX-1	.4	5

GEOCHEMICAL ASSAY CERTIFICATE

A .500 GM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.
 THE SAMPLE IS DILUTED TO 10 MLS WITH WATER. ELEMENTS ANALYSED BY AA : AG.
 SAMPLE TYPE : SILT - PULVERIZING
 AU* - 10 GM, IGNITED, HOT AQUA REGIA LEACH MIBK EXTRACTION, AA ANALYSIS.

ASSAYER *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

TILlicum GOLD MINES FILE # 83-0590

PAGE# 1

SAMPLE	AG PPM	AU* PPB
D- 0X	.6	5
D- 3X	.3	5
D- 4X	.3	5
D- 5X	.4	5
D- 6X	.4	5
D- 7X	.2	5
D- 8X	.2	5
D- 9X	.3	5
D-10X	.4	5
D-12X	.5	5
D-13X	.2	5
D-15X	.4	5
D-18X	.3	5
D-19X	.2	5
D-24X	.3	5
D-25X	.4	5
D-26X	.5	5
D-27X	.2	5
D-28X	.5	5
D-29X	.4	5
D-30X	.3	5
D-31X	.4	5
D-32X	.2	5
D-33X	.3	5
D-34X	.3	5
D-35X	.4	5
D-37X	.3	5
D-38X	.4	5
D-41X	.3	5
D-42X	.2	5
D-43X	.4	5
D-44X	.8	5
D-45X	.6	5
D-46X	.9	5
D-47X	.7	5
D-48X	.6	5
D-49X	.8	5

.0001

.60029

SAMPLE	AG PPM	AU* PPB
D-50X	.9	5
D-51X	1.3	10
D-52X	1.1	5
D-53X	.9	5
D-54X	1.0	5
D-55X	.6	5
D-56X	.4	5
M- 1X	.1	5
M- 2X	.4	5
M- 3X	.8	5
M- 4X	.7	5
M- 5X	.6	5
M- 6X	.7	5
M- 7X	.6	5
M- 8X	.7	5
M- 9X	.4	10
M-10X	.6	5
M-12X	.7	5
M-13X	.6	5
M-15X	.6	5
M-16X	.7	5
M-17X	.7	5
M-18X	.6	5
M-19X	.7	5
M-20X	.7	5
M-21X	.3	5
M-22X	.5	5
M-23X	.7	5
M-24X	.6	5
M-25X	.6	5
M-26X	1.3	10
M-27X	.6	5
M-28X	.5	5
M-29X	.8	5
M-30X	.4	5
M-31X	.3	5
M-32X	.4	5

GEOCHEMICAL ASSAY CERTIFICATE

A .500 GM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.
 THE SAMPLE IS DILUTED TO 10 MLS WITH WATER. ELEMENTS ANALYSED BY AA : AG.
 SAMPLE TYPE : P1-6 SOIL P7-9 SILT
 AU* - 10 GM, IGNITED, HOT AQUA REGIA LEACH MIBK EXTRACTION, AA ANALYSIS.

ASSAYER _____ DEAN TOYE, CERTIFIED B.C. ASSAYER

TILLICUM GOLD MINES

FILE # 83-1513

PAGE# 1

SAMPLE	AG PPM	AU* PPB
S-1 0S	.3	5
S-1 0+25S	.4	5
S-1 0+50S	.3	5
S-1 0+75S	1.4	5
S-1 1S	.8	5
S-1 1+25S	.5	5
S-1 1+50S	.2	5
S-1 1+75S	.3	5
S-1 2S	.3	5
S-1 2+25S	.4	5
S-1 2+50S	.7	5
S-1 2+75S	.5	5
S-1 3S	.5	5
S-1 3+25S	.8	5
S-1 3+50S	1.0	5
S-1 3+75S	.5	5
S-1 4S	.6	5
S-1 4+25S	.7	5
S-1 4+50S	1.0	5
S-1 4+75S	.8	5
S-1 5S	.5	5
S-1 5+25S	.5	5
S-1 5+50S	.7	5
S-1 5+75S	.4	5
S-1 6S	.9	5
S-1 6+25S	.3	5
S-1 6+50S	.4	5
S-1 6+75S	.3	5
S-1 7S	.2	5
S-1 7+25S	.4	5
S-1 7+50S	.3	5
S-1 7+75S	.2	5
S-1 8S	.2	5
S-1 8+25S	.4	5
S-1 8+50S	.6	5
S-1 8+75S	.6	5
S-1 9S	.3	5

37

SAMPLE	AG PPM	AU* PPB
S-1 9+25S	.5	5
S-1 9+50S	.3	5
S-1 9+75S	.6	5
S-1 10S	.4	5
S-1 10+25S	.8	5
S-1 10+50S	.3	5
S-1 10+75S	.3	5
S-1 11S	.1	5
S-1 11+25S	.4	5
S-1 11+50S	.6	5
S-1 11+75S	.5	5
S-1 12S	.7	5
S-1 12+25S	.7	5
S-1 12+50S	.4	19
S-1 12+75S	.6	10
S-1 13S	.6	5
S-1 13+25S	.9	5
S-1 13+50S	.2	5
S-1 13+75S	.5	5
S-1 14S	.3	5
S-1 14+25S	.4	5
S-1 14+50S	.9	5
S-1 14+75S	.2	20
S-1 15S	.4	5
S-1 15+25S	.4	10
S-1 15+50S	.7	5
S-1 15+75S	1.3	5
S-1 16S	.5	5
S-1 16+25S	.4	5
S-1 16+50S	.5	5
S-1 16+75S	.3	5
D 0	.1	5
D 0+50	.4	5
D 1	.1	30
D 1+50	.6	5
D 2	.1	10
D 2+50	.2	5

SAMPLE	AG PPM	AU* PPB
D 3	.2	5
D 3+50	.4	5
D 4	.1	5
D 4+50	.3	5
D 5	.7	5
D 5+50	.4	5
D 6	.9	5
D 6+50	.4	5
D 7	.7	5
D 7+50	1.0	5
D 8	.4	5
D-1 0S	.4	5.
D-1 0+50S	.5	5.
D-1 1S	.9	5.
D-1 1+50S	1.0	10
D-1 2S	.6	5.
D-1 2+50S	.7	5.
D-1 3S	1.0	5.
D-1 3+50S	.5	5.
D-1 4S	1.1	5.
D-1 4+50S	.6	5.
D-1 6S	.5	5.
D-1 6+50S	.6	5.
D-1 7S	.4	5.
D-1 7+50S	.5	5.
D-1 8S	.3	5
D-1 8+50S	.7	5
D-1 9S	.6	5
D-1 9+50S	.7	5
D-1 10S	.6	5
D-1 10+50S	.9	5
D-1 11S	.5	5
D-1 11+50S	.5	5
D-1 12S	.7	5
D-1 12+50S	.8	10

34

SAMPLE	AG PPM	AU* FPB
D-1 13S	.6	5
D-1 13+50S	.7	5
D-1 14S	.8	5
D-1 14+50S	.5	5
D-1 15S	.9	5
D-1 15+50S	.5	5
D-1 16S	1.0	5
D-1 16+50S	.7	5
D-1 17S	.6	5
D-1 17+50S	.6	5
D-1 18S	.7	5
D-1 18+50S	.7	5
D-2 0S	.4	5
D-2 0+50S	.3	5
D-2 1S	.5	5
D-2 1+50S	.2	5
D-2 2S	.5	5
D-2 2+50S	.4	5
D-2 3S	.5	5
D-2 3+50S	.6	5
D-2 4S	.5	5
D-2 4+50S	.8	5
D-2 5S	.5	5
D-2 5+50S	.4	5
D-3 7N	.4	5
D-3 6+50N	.4	5
D-3 6N	.6	5
D-3 5+50N	.9	5
D-3 5N	.8	5
D-3 4+50N	.8	5
D-3 4N	.2	5
D-3 3+50N	.7	5
D-3 3N	.6	5
D-3 2+50N	.5	5
D-3 2N	.5	5
D-3 1+50N	.4	5
D-3 1N	.7	5

37

SAMPLE	AG PPM	AU* PPB
D-3 0+50N	1.1	5
D-3 0N	.6	5
W-1 6+25N	.5	5
W-1 6N	.9	5
W-1 5+75N	.8	5
W-1 5+50N	.4	5
W-1 5+25N	1.2	5
W-1 5N	1.0	5
W-1 4+75N	.5	5
W-1 4+50N	1.4	5
W-1 4+25N	2.1	5
W-1 4N	1.2	5
W-1 3+75N	1.1	5
W-1 3+50N	.9	5
W-1 3+25N	.7	5
W-1 3N	.6	5
W-1 2+75N	.8	5
W-1 2+50N	1.8	5
W-1 2+25N	.6	5
W-1 2N	1.6	20
W-1 1+75N	.9	5
W-1 1+50N	.7	5
W-1 1+25N	.4	5
W-1 1N	.7	5
W-1 0+75N	.8	5
W-1 0+50N	1.2	5
W-1 0+25N	1.5	5
W-1 0N	2.3	5
W-1 21S	1.2	5
W-1 21+25S	.6	5
W-1 21+50S	.8	5
W-1 21+75S	.5	5
W-1 22S	1.3	5
W-1 22+25S	.5	5
W-1 22+50S	1.7	5
W-1 22+75S	1.0	5
W-1 23S	.9	5

↑

37

6

x

SAMPLE	AG PPM	AU* PPB
W-1 23+25S	.5	5
W-1 23+50S	.5	5
W-1 23+75S	1.2	5
W-1 24S	1.6	5
RR- 0	.7	5
RR- 0+50	1.6	5
RR- 1	.9	5
RR- 1+50	.7	5
RR- 2	1.0	5
RR- 2+50	1.3	5
RR- 3	.4	5
RR- 3+50	1.4	5

12

SAMPLE	AG PPM	AU* PPB
CC- 0	.5	5
CC- 0+75	.5	5
CC- 1+50	.7	5
CC- 2+25	.7	5
CC- 3	.6	5
CC- 3+75	.7	5
WC- 8N	.4	5
WC- 5+25N	.5	5
WC- 4+50N	.4	5
WC- 3+75N	.5	5
WC- 3H	.3	5
WC- 2+25N	.4	5
WC- 1+50N	.4	5
WL- 0+75N	.5	5
WC- 0N	.4	5
WC-7R1 0+25	.3	5
WC-7R1 0+50	.2	5
WC-7R2 0+25	.1	5
WC-7R2 0+50	.2	5
WLS 0	.3	5
WCS 0+75	.4	5
WCS 1+50	.3	5
WCS 2+25	.4	5
WCS 3	.6	5
WCS 3+75	.4	5
WCS 4+50	.4	5
WCS 5+25	.2	5
WCS 6	.3	5
WCS 6+75	.3	5
WCS 7+50	.3	5
WCS 8+25	.5	5
WCS 9	.2	5
WCS 9+75	.4	5
WCS 10+50	.3	5
WCS 11+25	.4	5
WCS 12	.4	5

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⑥

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131②

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SAMPLE	AG PPM	AU* PPB
WCS 12+75	.3	5
WCS 13+50	.2	5
WCS 14+25	.4	5
WCS 15	.3	5
WCS 15+75	.3	5
WCS 16+50	.4	5
G-1 0+75	.3	5
G-2 1+50	.2	5
G-3 2+25	.1	5
E-1 0	2.4	5
E-2 0+75	.5	5
E-3 1+50	.5	5
E-4 2+25	.6	5
E-5 3	.6	5
E-6 3+75	.6	5
D-1 3+75	2.0	5
D-2 3	.5	5
D-3 2+25	.3	5
D-4 1+50	.6	5
D-5 0+75	.4	5
D-6 0	.4	5
DD 0	.4	5
DD 0+75	.6	5
DD 1+50	.4	5
DD 2+25 R	.3	5
DD 3	.4	5
DD 3+75	.6	5
F-1	.3	5
F-2	.2	5
F-3	.3	5
F-4	.4	5
F-5	.2	5
F-6	.5	5

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SAMPLE	AG PPM	AU* PPB
I 0+75	.6	5
I 1+50	.3	5
I 2+25	.9	5
I 3	.5	5
H-1 0+75	.2	5
H-2 1+50	.3	5
H-3 2+25	.3	5
A 0	.5	5
A 0+75	.3	5
A 1+50	.3	5
A 2+25	.4	5
A 3	.4	5
A 3+75	.4	5
A 4+25	.5	5
A 4+50	.5	5
A 5+25	.6	5
B 0	.4	5
B 0+75	.3	10
B 1+50	.4	5
B 2+25	.4	75
B 3	.3	30
B 3+50	.3	5
B 3+75	.3	5
CR-2 0+75	.6	5
CR-2 1+50	.2	5
CR-2 2+25	.3	5
CR-2 3	.2	5
M01-X	.3	5
M02-X	.3	5
CB 0	.2	5
CB 0+75	.4	5
CB 1+50	.3	5
CB 2+25	.2	5
CB 3	.3	5
CB 3+75	.4	5
CB 4+25	.4	5
CB 5	.4	5

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ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

DATE RECEIVED AUG 3 1983

DATE REPORTS MAILED *Aug 6/83*

GEOCHEMICAL ASSAY CERTIFICATE

A .500 GM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.
THE SAMPLE IS DILUTED TO 10 MLS WITH WATER. ELEMENTS ANALYSED BY AA : AG.
SAMPLE TYPE : P1-3 SOIL P4-5 SILT
AU* - 10 GM, IGNITED, HOT AQUA REGIA LEACH MIBK EXTRACTION, AA ANALYSIS.

ASSAYER *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

TILlicum GOLD MINES

FILE # B3-1453

PAGE# 1

SAMPLE	AG PPM	AU* PPB
W-1 20+75N	.6	5
W-1 20+50N	1.4	5
W-1 20+25N	1.2	5
W-1 20N	.8	5
W-1 19+75N	.8	5
W-1 19+50N	.8	5
W-1 19+25N	.7	5
W-1 19N	.5	5
W-1 18+75N	.8	5
W-1 18+50N	.7	5
W-1 18+25N	.8	5
W-1 18N	.4	5
W-1 17+75N	.9	5
W-1 17+50N	.8	5
W-1 17+25N	.6	5
W-1 17N	.7	5
W-1 16+75N	.4	5
W-1 16+50N	.4	5
W-1 16+25N	.4	5
W-1 16N	.9	5
W-1 15+75N	.8	5
W-1 15+50N	.6	5
W-1 15+25N	.7	5
W-1 15N	.9	5
W-1 14+75N	.8	5
W-1 14+50N	.6	5
W-1 14+25N	.8	5
W-1 14N	.7	5
W-1 13+75N	.8	5
W-1 13+50N	.8	5
W-1 13+25N	.8	5
W-1 13N	.6	5
W-1 12+75N	1.0	5
W-1 12+50N	.9	5
W-1 12+25N	.7	5
W-1 12N	1.2	5
W-1 11+75N	.4	5

37 *200* *2* *45* *11*

SAMPLE	AG PPM	AU* PPB
W-1 11+50N	.9	5
W-1 11+25N	1.0	5
W-1 11N	.7	5
W-1 10+75N	1.3	5
W-1 10+50N	1.4	5
W-1 10+25N	.4	5
W-1 10N	1.8	5
W-1 9+75N	1.0	5
W-1 9+50N	.6	5
W-1 9+25N	.9	5
W-1 9N	.4	5
W-1 8+75N	.6	5
W-1 8+50N	1.1	5
W-1 8+25N	.4	5
W-1 8N	.7	5
W-1 7+75N	1.6	5
W-1 7+50N	1.4	5
W-1 7+25N	.9	5
W-1 7N	.7	5
W-1 6+75N	.8	5
W-1 6+50N	.7	5
W-2 7+75N	1.4	5
W-2 7+50N	.6	5
W-2 7+25N	.8	5
W-2 7N	.9	5
W-2 6+75N	.6	5
W-2 6+50N	.4	5
W-2 6+25N	.5	5
W-2 6N	1.0	5
W-2 5+75N	.8	5
W-2 5+50N	.4	5
W-2 5+25N	.6	5
W-2 5N	.5	5
W-2 4+75N	.4	5
W-2 4+50N	.5	5
W-2 4+25N	.9	5
W-2 4N	.6	5

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SAMPLE	AG PPM	AU* PPB
W-2 3+75N	.8	5
W-2 3+50N	1.2	5
W-2 3+25N	1.1	5
W-2 3N	.8	5
W-2 2+75N	.8	5
W-2 2+50N	.7	5
W-2 2+25N	1.5	5
W-2 2N	.5	5
W-2 1+75N	.5	5
W-2 1+50N	.7	5
W-2 1+25N	.7	5
W-2 1N	.6	5
W-2 0+75N	.4	5
W-2 0+50N	1.4	5
W-2 0+25N	.6	5
W-2 0N	.6	5
WR 0	.2	5
WR 0+50	.6	5
WR 1	1.2	5
WR 1+50	.8	5
WR 2	.1	5
WR 2+50	.5	5
WR 3	1.4	5
WR 3+50	.7	5
WR 4	1.6	5
WR 4+50	1.1	5
WR 5	.5	5

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SAMPLE	AG PPM	AU* PPB
CR-1 0	.2	5
CR-1 0+75	.3	5
CR-1 1+50	.4	5
CR-1 2+25	.2	5
CR-1 3	.4	<u>20</u>
CR-1 3+75	.3	5
CR-1 4+50	.4	5
CR-1 5+25	.2	5
CR-1 6+75	.2	<u>10</u>
CR-1 7+50	.3	5
CR-1 8+25	.4	5
CR-1 9	.3	5
CR-1 9+75	.4	5
CR-1 10+50	.4	<u>20</u>
CR-1 11+25	.2	<u>10</u>
CR-1 12	.3	5
CR-1 12+75	.3	<u>15</u>
CR-1 13+50	.3	5
CR-1 14+25	.4	5
CR-1 15	.4	<u>200</u>
CR-1 15+75	.4	10
CR-1 16	.3	<u>310</u>
CR-1 16+50	.3	5
CR-1A 0	.2	5
CR-1A 0+75	.5	5
CR-1A 1+30	.4	5
SS 0	1.4	5
SS 0+75	.6	5
SS 1+50	.7	5
SS 2+25	.5	5
SS 3	.5	5
SS 3+75	.4	5
SS 4+50	.4	5
SS 5+25	.3	5
SS 6	.3	5
SS 6+75	.4	5

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SAMPLE	AG PPM	AU* PPB
SS 7+50	.3	5
SS 8+25	.3	5
SS 9	.3	5
SS 9+75	.1	5
SS 10+50	.1	5
SS 11+25	.1	5
SS 12	.3	5
SS 12+25	.2	5
SS-1 0	.1	5
SS-1 0+75	.4	5
SS-1 1+50	.2	5
SS-1 2+25	.8	5
SS-1 3	.6	5
SS-1 3+50	.4	5
SS-2 0+75	.2	5
SS-2 1+50	.1	$\frac{10}{5}$
SS-3 0	.2	5
SS-3 0+75	.1	5
SS-4 0+05	.2	5

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APPENDIX II



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

Telephone : 253 - 3158

GEOCHEMICAL LABORATORY METHODOLOGY - 1982

Sample Preparation

1. Soil samples are dried at 60°C and sieved to -80 mesh.
2. Rock samples are pulverized to -100 mesh.

Geochemical Analysis (AA and ICP)

0.5 gram samples are digested in hot dilute aqua regia in a boiling water bath and diluted to 10 ml with demineralized water. Extracted metals are determined by :

A. Atomic Absorption (AA)

Ag*, Bi*, Cd*, Co, Cu, Fe, Ga, In, Mn, Mo, Ni, Pb, Sb*, Tl, V, Zn
(* demotes with background correction.)

B. Inductively Coupled Argon Plasma (ICP)

Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cu, Cr, Fe, K, La, Mg,
Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, Ti, U, V, W, Zn.

Geochemical Analysis for Au

10.0 gram samples that have been ignited overnight at 600°C are digested with hot dilute aqua regia, and the clear solution obtained is extracted with Methyl Isobutyl Ketone.

Au is determined in the MIBK extract by Atomic Absorption using background correction (Detection Limit = 5 ppb direct AA and 1 ppb graphite AA.)

Geochemical Analysis for Au, Pd, Pt, Rh

10.0 - 30.0 gram samples are subjected to Fire Assay preconcentration techniques to produce silver beads.

The silver beads are dissolved and Au, Pb, Pt and Rh are determined in the solution by Atomic Absorption.

Geochemical Analysis for As

0.5 gram samples are digested with hot dilute aqua regia and diluted to 10 ml. As is determined in the solution by Graphite Furnace Atomic Absorption (AA) or by Inductively Coupled Argon Plasma (ICP).



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Assaying & Trace Analysis

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Geochemical Analysis for Barium

0.1 gram samples are digested with hot NaOH and EDTA solution.

Ba is determined in the solution by Atomic Absorption.

Geochemical Analysis for Uranium

0.5 gram samples are digested with hot aqua regia and diluted to 10 ml.

Aliquots of the acid extract are solvent extracted using a salting agent and aliquots of the solvent extract are fused with NaF, K_2CO_3 and Na_2CO_3 flux in a platinum dish.

The fluorescence of the pellet is determined on the Jarrel Ash Fluorometer.

Geochemical Analysis for Tungsten

1.0 gram samples are fused with KCl, KNO_3 and Na_2CO_3 flux in a test tube, and the fusions are leached with 10 ml water. W in the solution determined by ICP with a detection of 1 ppm.

Geochemical Analysis for Fluorine

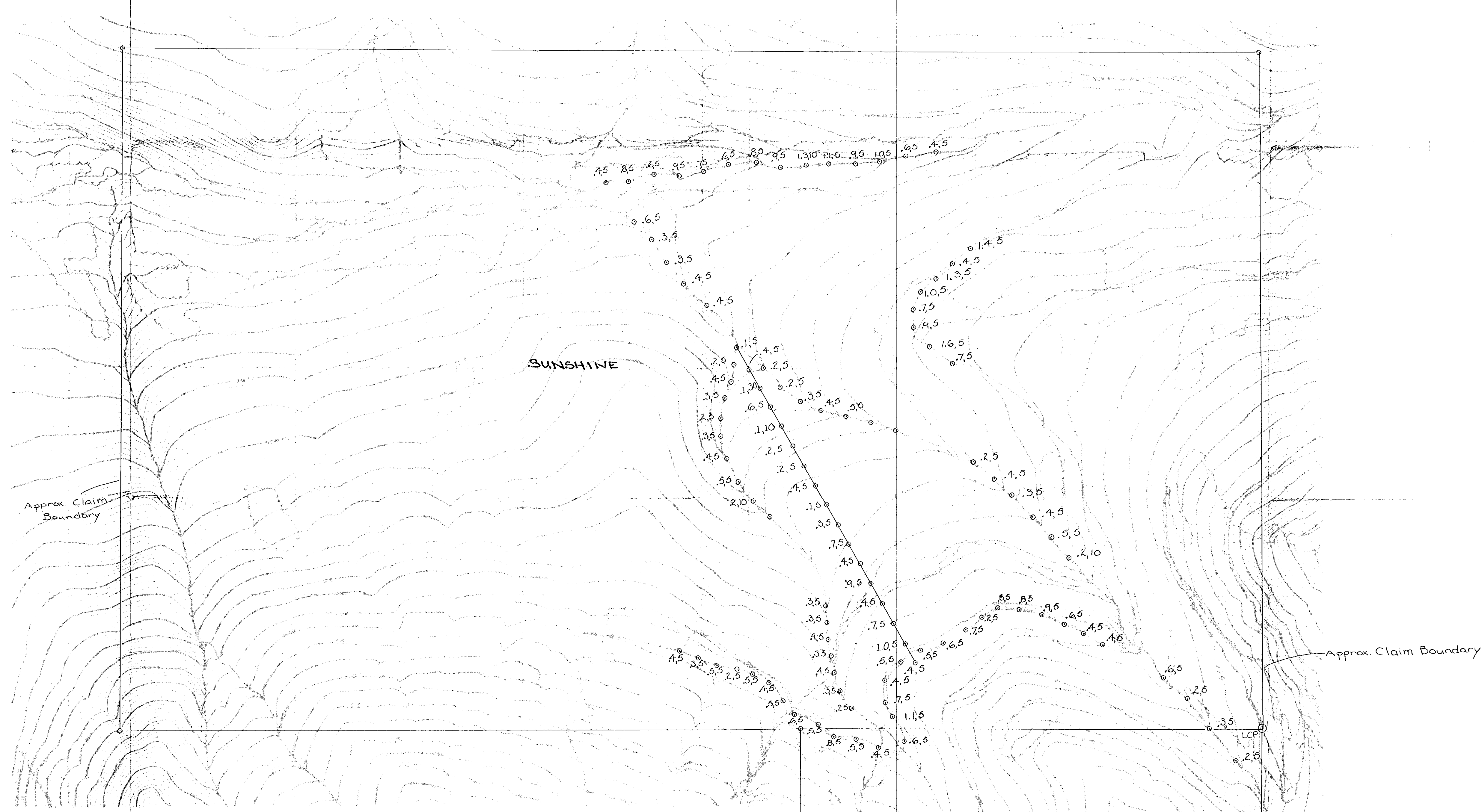
0.25 gram samples are fused with sodium hydroxide and leached with 10 ml water. The solution is neutralized, buffered, adjusted to pH 7.8 and diluted to 100 ml.

Fluorine is determined by Specific Ion Electrode using an Orion Model 404 meter.

Geochemical Analysis for Tin

1.0 gram samples are fused with ammonium iodide in a test tube. The sublimed iodine is leached with dilute hydrochloric acid.

The solution is extracted with MIBK and tin is determined in the extract by Atomic Absorption.



To accompany geochemical report
on the Slewiskin Group by J.W. George (geol.)
Oct. 15th, 1983

SCALE 1:5000

LEGEND

SLEWISKIN GROUP

Ag 10, 0Au
ppm ppb Geochemical Survey

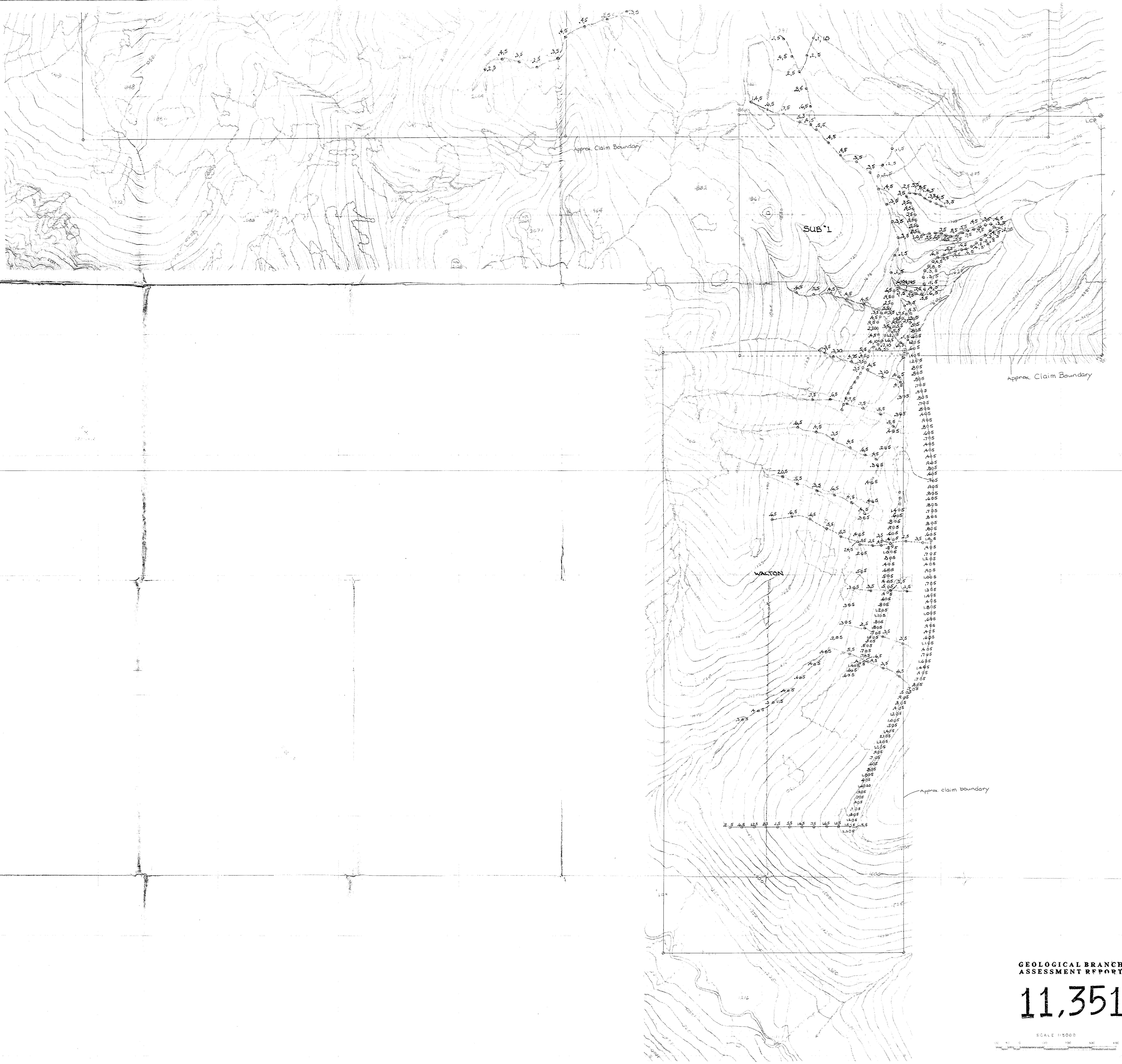
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GEOLOGICAL BRANCH
ASSESSMENT REPORT

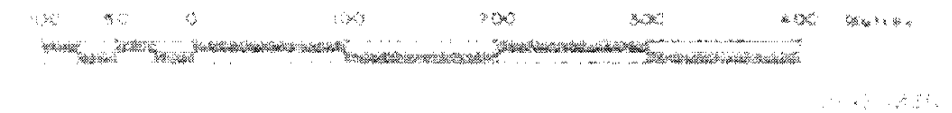
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**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

11,351

SCALE 1:5000



To accompany Geochimical report on the
Slewiskin Group by J.W. George (geol.)
Oct 15th, 1985

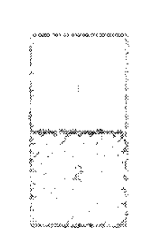
TILlicum GOLD MINES LTD

SLEWISKIN GROUP

Geochimical Survey

McIntosh Surveying & Engineering Ltd
125 Albert Street Vancouver B.C. Canada
Litho. and photolitho. by J.W. George (geol.)
1985

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Date 15 Oct 1985
Sheet 11,351



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