

ARIS SUMMARY SHEET

District Geologist, Victoria

Off Confidential: 90.01.16

ASSESSMENT REPORT 18237

MINING DIVISION: New Westminster

PROPERTY: Slesse Creek
LOCATION: LAT 49 00 20 LONG 121 37 00
UTM 10 5428776 601171
NTS 092H04E

CLAIM(S): Roy 1-2, Roy 5-6
OPERATOR(S): Sauer, B.R.
AUTHOR(S): Sauer, B.R.
REPORT YEAR: 1989, 48 Pages

COMMODITIES
SEARCHED FOR: Gold, Silver, Copper, Zinc, Antimony, Bismuth
KEYWORDS: Pennsylvanian-Permian, Chilliwack Group, Schist, Slesse Diorite
Faults, Quartz veins, Pyrite, Pyrrhotite, Chalcopyrite, Gold, Bismuth
Telluride

WORK
DONE: Prospecting, Geochemical
PROS 800.0 ha
ROCK 60 sample(s) ;AU,AG,CU,ZN,AS,SB,BI
Map(s) - 2; Scale(s) - 1:5000, 1:1000
SOIL 120 sample(s) ;AU,AG,AS,BI,SB,CU,ZN
Map(s) - 3; Scale(s) - 1:5000

RELATED
REPORTS: 16927
MINFILE: 092HSW032, 092HSW053, 092HSW064

LOG NO: 0417	RD. 3
ACTION: Date received report back from amendments 48 p.	
FILE NO:	

B. R. SAUER, PROSPECTOR

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LOG NO: 0119	RD.
ACTION:	
FILE NO:	

REPORT
on the
SLESSE CREEK PROPERTY (ROY GROUP)
NEW WESTMINSTER MINING DIVISION
BRITISH COLUMBIA

FILMED

92H/4E ; Lat. 49°00N; Long. 121°37' W

by

B. R. SAUER, PROSPECTOR

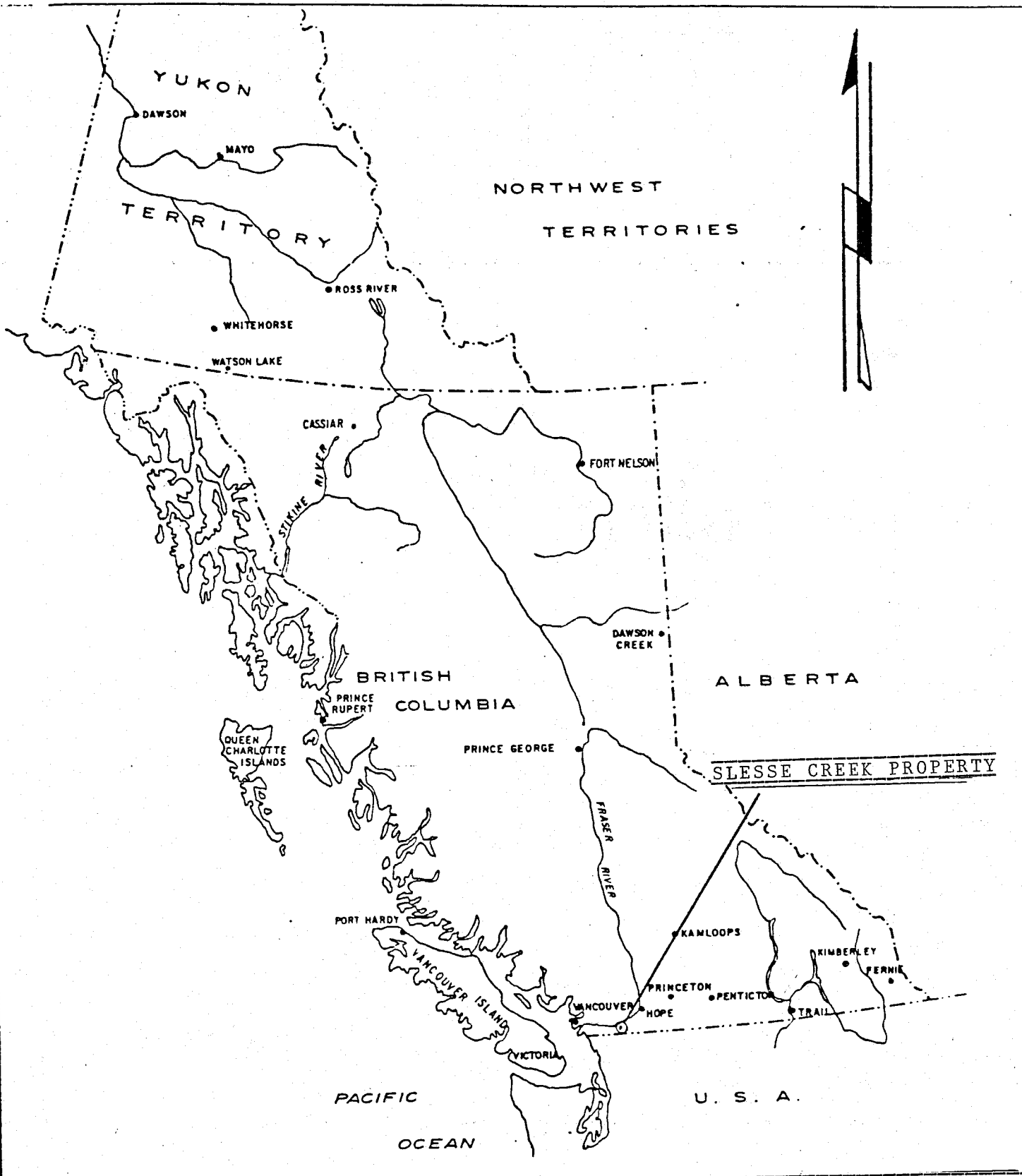
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

18,237

N. Vancouver, Canada

Jan. 4, 1989

GOLD COMMISSIONER RECEIVED JAN 16 1989 M.R. #S..... NEW WESTMINSTER, B.C.



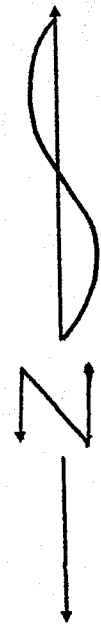
LOCATION MAP
 ROY GROUP
 SLESSE CREEK PROPERTY (ROY GROUP)
 SCALE 1:12,672,000

 NTS 92H/4E DATE: JAN. 4, 1989
 FIG. 1 BRIAN SAUER 1"=250 MILES

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TO CHILLIWACK RIVER



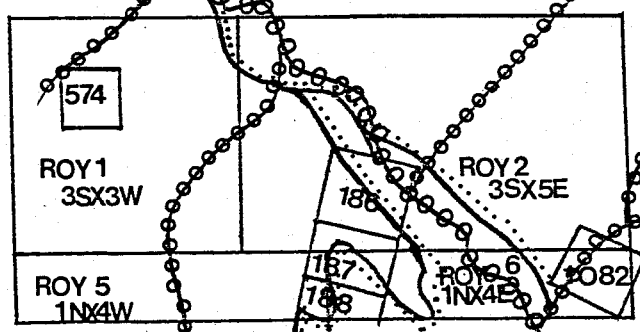
2439
* SLESSE
MTN.

LEGEND

ROAD
CREEK ○○○○○○○○

0 1000
SCALE METERS
1:50,000

(APPOXIMATE ALTITUDE
IN METERS)



2291
* BORDER PEAK

49° CANADA — UNITED STATES

*
BOUNDRY
RED
MTN.
MINE

121° 35'

ROY CLAIM'S

INTRODUCTION

I, Brian R. Sauer, carried out a reconnaissance soil, silt and rock survey on the Roy Group of mineral claims during March, April, October and December of 1988. The purpose was to outline possible economic mineralization on the claims.

LOCATION AND ACCESS

The Roy Group is located in the New Westminster Mining District of B.C. at latitude 49°00'N, and longitude 121°37'W. The claims are located on NTS sheet 92H/4E. Access is by paved road twenty kilometers east along the Chilliwack River road from Vedder Crossing and then nine kilometers south from the junction of Slesse Creek and the Chilliwack River on a well maintained logging road.

PROPERTY

The Roy Group consists of four "4" post claims recorded as follows:

Roy 1	# 3097	9 units
Roy 2	# 3098	15 units
Roy 5	# 3139	4 units
Roy 6	# 3140	4 units

all are located in the New Westminster Mining Division.

CLIMATE AND PHYSIOGRAPHY

The climate is typically coastal with moderate to heavy precipitation throughout the year. Snow at the higher elevations remains for most of the year on or near the remaining glacierettes, overlooking the Slesse Creek valley below. Work may be carried out virtually year-round, subject to extreme weather conditions on the property. Snow and rock

slides which occur from time to time generally pose few problems but topography must be taken into consideration in certain areas. Rock outcrops cover about 50% of the property with many sites being inaccessible due to the steep grades. The old slide scars or slide debris cover about 30% of the property mainly in the valleys for obvious reasons. The remaining 20% consists of glacial till and debris. Reforestation from logging in the 1950's has produced a thick secondary growth on the western side of Slesse Creek, this along with natural underbrush creates much difficulty in prospecting much of the claims.

HISTORY

Reports on the Slesse Creek basin are traced back to at least 1896 and up to the early 1980's. Most of the exploratory adits and opencuts were, however, completed in the early 1900's. Little activity was noted in the area after 1929, except for light reconnaissance surveys. At least 5 prospects were worked in the early period but, their exact locations have not yet been located. The Jumbo claims, 3 of 5 Reverted Crown Grants remaining in good standing, had several opencuts and two adits on the property. One of the adits, 160 feet deep, followed a seam of vitreous quartz approximately a foot in width.

Two other past producers from this area were the Lone Jack Mine and the Boundary Red Mountain Mine. The Lone Jack was situated four miles south of the International Boundary and had a two foot quartz vein, with a ten-stamp mill erected, to mine gold values of \$ 32.00/ton (1904 dollars).

Total production from the Red Mtn. Mine has been estimated at slightly over 80,000 tons of 0.60 oz/ton Au on average. Sampling during February, 1987 by SOLO INTERNATIONAL RESOURCES LTD. (VSE); present optionees of the mines six

patented mining leases, ran 0.487 oz/ton Au over 80 centimeters on the main vein.

The Boundary Red Mtn. Mine is important to the Roy Group due to its close proximity to the claims, just 500 meters to the south.

As previously mentioned at least 5 former prospects, the Wissota, Zenith, Tincup, Queen, Slesse Creek, and Gold Basin, have not been located. Of these only the Gold Basin, has a history of past production, \$17,000.00 (1920 dollars) in free gold largely from quartz float. It was staked to the east of the Boundary Red Mtn. Mine on the United States side of the border. Besides the rich quartz float the Gold Basin has a quartz vein of at least 4 feet in width, striking N 5° and dipping 70°W.

GEOLOGY

Regional

The claims cover the Pennsylvanian and Permian age Chilliwack Group, consisting of basic volcanic rocks and metamorphosed argillaceous rocks on the western portion of the property. To the east the Chilliwack Pluton of Tertiary Miocene and earlier ages consists of granodiorite and quartz diorites. Between these two major rock groups and centrally located lies the Slesse Diorite (Daly, 1912, pp532)¹, of amphibolites, hornblendites, quartz diorites, and schists.

Property

The main vein in the Boundary Red Mountain Mine is in schist and diorite, which forms a contact belt between Slesse Diorite and weakly metamorphosed rocks of the Chilliwack Group (Misch, 1967). The main veins are found in this schist/diorite belt, this zone contains many faults and fractures. The veins bearing economic values in gold at the mine were formed in two

1. Jewett, 1984 thesis; and Grant, 1987 report for SOLO INT. RES. LTD., describe the Slesse Diorite as the "Yellow-Aster Complex of meta-hornblende gabbro, meta-diorite, and meta-quartz diorite."

stages of mineralization. Initially, fractures filled with quartz which contained pyrite, pyrrhotite, and chalcopyrite. Secondly, recurrent movement along these quartz veins produced microbrecciation which permitted hydrothermal gold-bismuth telluride solutions to infiltrate parts of the quartz veins. The quartz veins ranged from a few centimeters to almost three meters in width, striking roughly N 14° E and dipping 50° to vertical.

Daly (pp534,1912) observed that the schist/diorite contact belt is often cut by small quartz-veins, some of which form fairly high grade, free milling ore. These veins were too small and irregular to give any hope of profitable low-grade ore. The Boundary Red Mountain vein had been discovered at this time and very little development was performed.

The newly named TORB ZONE was discovered by following up a small amount of malachite float. A sulphide lens was discovered stained with malachite and containing chalcopyrite, pyrite, minor pyrrhotite and possible bornite. This area appears to be located in a shear zone noted by Jewett in his 1984 thesis. The heavily fractured rocks in the area also seem to concur with this idea, although no sign of slickensides have been observed in this area to date.

Two other areas of interest were found during the reconnaissance survey, the HARK ZONE and the WEST TORB ZONES. The Hark zone contains a siliceous hill which is a topographic anomaly in itself. The hill contains highly resistant silicified argillite, but is not very well exposed. Adjacent to this are outcrops of limestone and a possible quartz-stockwork located to the west. The possible stockwork contains veinlets carrying pyrite and pyrrhotite. A boulder found in the creek contained massive pyrite in a fine grained highly siliceous matrix.

The West Torb zone contained an outcrop of graphitic schist

containing pyrite and pyrrhotite. Highly clay altered float containing up to 50% of sulphides was found within 10 meters of this outcrop.

While prospecting a major creek (Chris) on the east side of Slesse Creek; quartz float in vein form, adjacent to a coarse grained diorite was discovered. Large crystals of molybdenum were observed in the quartz, with only minor amounts of pyrite in the diorite.

GEOCHEMISTRY

The 1988 Reconnaissance geochemical survey work completed on the Roy Group of mineral claims was performed to test for possible economic "zones". Soil geochemistry; silt/sediment geochemistry; and rock geochemistry were the mediums used to test for positive results.

The reconnaissance method was chosen due to the dense brush and steep hillsides on the claims. It was thought to be the most economic way to locate possible targets prior to any grid work being initiated.

Silt sampling was used to locate anomalies in the drainage area of the claims, with excellent results in one area. It was also used to verify some of the past silt/sediment results, especially the 1983 survey by Glow Resources Ltd..

Soil sampling was also used to reverify past results by Aquarius Resources Ltd. performed in 1978. It was also hoped that new soil geochem targets could be located.

Rock samples were taken of selected outcrops and float during the 1988 season. Some very exciting sample numbers were returned from various areas of the property, especially the TORB ZONE.

Silt Survey

All silt samples (except where noted) were taken using

moss from the creek beds. When the availability of moss was not easy to locate, sediment grab samples were taken.

Silt samples for Au were highest in the Glacier creek mouth area, with values running as high as 10,000ppb for the first 200 meters of the creek.

The remainder of the property was generally under 25ppb Au except for the creek draining the Reverted Crown Grant 1082. The two samples taken from that creek ran 100ppb near the mouth and 145ppb 350 meters upstream.

Samples on Slesse Creek; Slesse # 2-5, were resampled from data taken in 1983 and were:

1983	ppb	1988	ppb
Slesse # 2	35	Slesse # 2	3100
Slesse # 3	2000	Slesse # 3	1000
Slesse # 4	50	Slesse # 4	243
Slesse # 5	65	Slesse # 5	3800

The 1983 samples were grab silt/sediment samples taken from Slesse Creek; but the 1988 samples were taken from moss lining boulders in the creek.

Analysis for silver also produced good results; i.e. up to 22.7ppm Ag, again in the lower area of Glacier Creek. Due to the fact the amount of silver associated with gold was minimal to none at the old Red Mtn Mine, very little analysis was done for Ag.

Of the other elements analysed Cu, As, Sb, Bi, Mo, Pb, and Zn; only Cu (up to 240ppm) and Zn (up to 142ppm) gave any encouraging results.

Future use of Sb, Bi, Mo, and Pb, in silt samples will not be utilized as pathfinders to locate economic deposits as their results were discouraging. The use of Bi was because of the amounts found along with gold at the Red Mtn. Mine, this representation did not appear to show up in the silt samples.

Molybdenum found in float on Chris creek was the basis for analysing for this element. Future analyses will be used only in the Chris creek area.

Upon completion of silt sampling of the creeks draining the claims only Au, Ag, Cu, As, Pb, and Zn will be utilized. As silt sampling seems to be the most favorable method to locate possible economic outcrops, this method will be used more extensively than soil sampling.

Soil Survey

Soil samples were taken from the top of the "B" horizon, a very orange, iron rich, oxidized zone. The soil covering the property is easily accessible and shows little change in colour in exposures around the property.

Sample results from the east side of Slesse creek generally concurred with the results of 1978, taken by Aquarius Resources. However, an area where Aquarius received its highest sample (35ppm) was not soil sampled. This was due to the amount of slide debris in the area (see figure).

One sample taken from the Hark zone ran 40ppb, the highest soil sample taken to date. The soil samples taken in this zone were at 25 meter intervals along an old access road.

A total of 92 soil samples were collected during the 1988 soil survey using a reconnaissance method. Samples were collected every 100 meters on the east side of Slesse creek along the main access road. Sample collection was done at 50 meter intervals in the West Torb zone, again along an old access road.

Silver was not used as a pathfinder again due to the low silver values reported from the mine. The samples analysed for Sb, Bi, and Mo showed very little change and would not be used in future soil surveys.

Copper, arsenic, lead and zinc readings were of interest and will be used in future soil surveys along with gold, and silver.

Rock Survey

Selected rock samples from outcrops and float were taken while silt or soil sampling. One outcrop of note which was sampled was the Torb zone which gave values exceedingly high in Au, Cu, and Ag (7400ppbAu; 90,750ppmCu; 49.8ppmAg). A sample taken below the road near the SE corner of L 186 produced a reading of 33,733ppm As, from an outcrop of pyrite rich, silicified material. The sample width was over 2 meters of varying types of rock in the outcrop.

Molybdenum was used as a medium to locate anomalous values due to the fact visible molybdenum was found in quartz-vein float in Chris creek. This particular sample in hindsight, should have been the only sample analysed for Mo.

Bismuth, lead, and zinc showed some fluctuation with highs of 173ppm Bi, 73ppm Pb, and 670ppm Zn, with lead being marginal.

Future samples of rock outcrops/float would be sampled for Au, Ag, Cu, As, and Zn, using other elements only for selected samples.

Summary

Of all three sample types silt/sediment sampling appeared to be the most economical with best results in Au, Ag, Cu, As, Pb, and Zn .

The silt sample taken in 1983 by Glow Resources Ltd., just upstream from the creek draining the TORB ZONE, gave values of 3500ppb Au; 7.8ppm Ag; and 22,500ppm Cu. However, 2 silt samples taken above and below the TORB ZONE gave low indications in gold, CG 102/22ppb Au; and CG 101/14ppb Au respectively.

Aquarius Resources reconnaissance soil survey in 1978, soil sampled along the road below and above the TORB ZONE. The soil results were not anomalous in this area at all, this may have been due to the steep grade, or soil creep caused by local slide material.

Glaciation must also be taken into consideration as the Slesse Creek valley has been heavily glaciated. Soil movement caused by glacial dispersion is highly probable in the entire claim area.

The actual TORB ZONE was found initially through prospecting, by finding small amounts of malachite float in debris. This method appears to be the best initial exploration tool along with silt sampling, to be used in prospecting the Roy Group. Float found further up above the TORB ZONE containing malachite (8312005) should also be followed up to locate similar outcrops (8212005=.3% Cu, .04 oz/ton Au). Mapping on a scale of 1:1000 is also proposed for this zone, along with minor trenching and breaking of rock faces for sampling fresh unoxidized material.

It should also be noted that the TORB ZONE does not seem to be similar in geology or economic mineralogy to the Boundary Red Mountain Mine. This is made evident by the silver and copper content of the lenses in the TORB ZONE.

Lastly, the ROCK O.C.(outcrop) sample must be verified as to location due to the high gold values (.0828 oz/ton). Until verification of the sample has been 100% identified, it will not be considered in relation to the Roy Group.

I therefore recommend the following:

- 1.) silt sampling of accessible creeks be continued at 100 meter intervals,
- 2.) prospecting in these creeks be continued,

- 3.) a small soil grid be run over the last 200 meters of Glacier creek to test the anomalous silt samples,
- 4.) adits on the property be opened up for safe mapping and sampling,
- 5.) the TORB ZONE be mapped to determine economic geology at a scale of 1:1000,
- 6.) limestone outcrops in the HARK and WEST TORB ZONES be prospected for the possible source of the ROCK O.C. sample.

GEOCHEMISTRY TABLES

Table I

Sample

SILT

Number	30	12	25	25	13	25	25	13	12	=	30
Element	Au	Ag	Cu	As	Pb	Zn	Bi	Mo	Sb		
	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
(high-low)	10000-5	22.7-.3	240-10	36-1	33-9	142-39	35-3	6-3	5-1		

SOIL

Number	92	n/a	90	90	90	90	90	90	n/a	=	92
Element	Au	Ag	Cu	As	Pb	Zn	Bi	Mo	Sb		
	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
(high-low)	40-5	/	109-10	101-12	98-13	293-42	13-4	8-3	/		

ROCK

Number	50	8	54	52	52	54	46	46	n/a	=	58
Element											
	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
(high-low)	7400-5	49.8-.2	90,750- 3	33,733 ² - 1	73-1	670-18	173-1	2,083 ³ -1	/	=	<u>190</u>

2. 33,733-1, sample taken over 2 meters in width. Without this sample high-low= 1,895-1.

3. 2,083-1, sample of visible molybdenum in float. Without this sample high-low= 41-1.

Table II

Au Content

Silts	ppb	number	location ⁴
	10,000	1	G#3
	7,000	1	G#5
	3,800	1	Slesse#5
	3,000	1	G#2
	1,700	1	G#6
	1,000	1	Slesse#3
	820	1	G#7
	800	1	G#4
	243	1	Slesse#4
	192	1	CG105
	145	1	016
	103	1	G#1
	100	1	18(40mesh)
	22	1	CG102
	21	1	SL#1
	15	1	29(40mesh)
	14	1	CG101
	13	1	CG103
	10	3	22(40mesh)
	8	1	CG104
	5	7	15,24,27,31,34, 46,150.
Soils	40	1	SG106
	20	1	87
	10	14	SG107,21,41,52,56, 62,70,81,86,91,112, 120,138,121.
	5	76	19,20,23,25,28,30, 32,33,36,42,44,45, 48,50,51,53,54,55, 57,58,59,60,61,63, 64,65,66,67,68,69, 71,72,73,74,75,76, 78,80,82,83,84,85, 88,89,90,92,93,94, 95,111,113,114,115, 116,117,118,119,122, 123,124,125,126,127, 128,129,130,131,132, 133,134,135,136,139, 140,141.
Rocks	7400	1	64758
	1320	1	64757
	1150	1	3
	1000	1	5
	818	1	MIN-EN#1(2meters wide)
	560	1	10
	530	1	6

continued on p 12...

Rocks	Au Content	location
ppb	number	no
492	1	64756
480	1	8
375	1	7
270	1	1
220	1	9
130	1	13
83	1	64759
45	1	137
40	1	2
18	1	64755
15	1	4,106
10	6	12,43,46,47,49,99.
5	25	11,14,17,98,100,101, 103,104,144,145,35, 38,39,79,96,97,102, 105,107,108,109,47, 48,49,110.

Silts	Ag Content	location
ppm	number	
22.7	1	G#5
1.7	1	G#3
1.2	1	G#6
1.0	2	Slesse#3,G#7
.9	3	Slesse#2,G#2,G#4.
.8	1	G#1
.6	1	Slesse#3
.4	1	Slesse#5
.3	1	SL#1

Solts	n/a	n/a	n/a
-------	-----	-----	-----

Rocks		
49.8	1	MIN-EN#1(2meters width)
38.4	1	64758
29.6	1	64757
15.2	1	152
7.2	1	64756
1.7	1	64759
1.3	1	64755
.2	1	151

Silts	Cu Content	location
ppm	number	
240	1	SL#1
81	1	G#4
78	1	G#5
72	1	G#6

continued on p 13...

Table II cont.

Silts	Cu Content number	location
ppm		
71	1	G#1
65	1	G#3
64	1	G#7
62	1	G#2
54	1	150
52	1	Slesse#2
42	1	Slesse#3
36	1	Slesse#4
24	1	Slesse#5
23	2	15,34.
17	1	37
13	4	24,27,29,31.
12	2	22,43.
11	2	16,18.
10	1	46
Soils		
109	1	135
108	1	111
99	1	122
96	1	126
87	1	134
81	1	121
79	1	132
76	1	85
75	1	136
72	1	112
66	1	92
65	1	73
59	1	87
53	1	130
51	3	82,119,120.
47	1	115
46	2	72,95.
44	1	83
43	3	86,93,118.
42	1	125
41	1	128
39	1	133
38	1	141
37	1	123
36	2	45,85.
35	1	80
34	1	78
32	1	48
31	2	81,139.
29	1	114
28	1	113
26	1	62
24	3	53,124,140.

continued on p 14...

Table II cont.

Soils		Cu Content	
ppm	number	location	
23	3	28,94,127.	
22	3	59,65,74.	
21	2	36,88.	
19	3	30,66,129.	
18	2	44,67.	
17	3	55,76,77.	
16	3	20,58,68.	
15	2	33,56.	
14	2	70,91.	
13	9	32,41,52,60,75,	
		90,116,131,57	
12	8	23,25,42,50,61,	
		63,89,117.	
11	5	54,64,69,71,38.	
10	3	19,21,51.	
Rocks		number	location
90,750	1	64757	
76,500	1	MIN-EN#1(2meters width)	
71,250	1	64758	
46,348	1	8	
41,005	1	10	
37,760	1	3	
23,122	1	9	
18,793	1	7	
13,109	1	1	
10,000(greater than)	2	103752H,152.	
8,622	1	6	
3,360	1	64756	
2,593	1	5	
2,164	1	13	
1,801	1	2	
1,214	1	4	
1,000	1	11	
865	1	64759	
737	1	12	
445	1	64755	
363	1	99	
358	1	106	
334	1	110	
207	1	148	
160	1	14	
101	1	101	
82	1	108	
78	1	147	
75	1	103	
72	1	100	
71	1	146	
57	1	35	
54	1	49	
52	1	47	

continued on p 15...

Table II cont.

Rocks		Cu Content	
ppm	number	location	
49	2	96,105.	
46	1	79	
42	1	107	
32	1	104	
29	1	149	
23	2	143,145.	
22	1	17	
17	1	39	
13	2	38,98	
7	1	109	
5	2	97,137.	
4	1	144	
3	1	102	
Silts		As Content	
ppm	number	location	
36	1	34	
35	1	37	
34	1	150	
25	1	18(40mesh)	
22	1	31	
21	1	G#3	
17	1	16	
16	1	G#4	
15	1	Slesse#5	
14	1	G#7	
13	1	G#1	
12	1	G#2	
10	2	15,27.	
9	1	G#5	
8	1	22(40mesh)	
4	1	24	
3	1	29(40mesh)	
2	1	SL#1	
1	6	Slesse#1,Slesse#3, Slesse#4,G#6,43,46.	
Soils			
ppm	number	location	
101	1	48	
75	1	65	
69	1	140	
67	1	112	
65	1	133	
59	1	126	
58	2	68,134.	
57	1	119	
56	2	114,125.	
55	1	120	
53	1	138	
52	3	117,118,129.	

continued on p 16...

Table II cont.

As Content

Soils

ppm	number	location
51	1	92
50	4	86,115,124,128.
49	4	93,121,131,132.
48	2	32,67.
47	1	83
46	2	19,111.
45	3	70,82,130.
44	3	113,139,141.
43	3	41,75,95.
42	2	78,123
41	1	91
40	3	60,84,136.
39	1	59
38	4	58,85,116,127.
37	2	66,72.
36	5	54,73,88,122,135.
35	3	20,50,62.
33	1	61
32	1	90
31	2	57,81.
29	2	55,76.
27	1	36
26	4	23,42,45,94.
25	1	53
24	4	28,56,63,74.
23	1	25
22	1	52
21	1	44
20	3	51,64,71.
19	1	80
18	1	33
16	1	30
13	1	77
12	1	21

Rocks

ppm	number	location
33,733	1	13(2meters width)
2,160	1	14 (adit Slesse Cr.)
1,895	1	151
790	1	152
319	1	17(mafic dyke)
101	1	47
79	1	11
68	1	49
63	1	6
58	1	3
47	1	106
44	1	144
42	1	108
37	1	137

continued on p 17...

Table II cont.

Rocks		As Content	
ppm	number	location	
34	1	96	
33	2	98,100.	
29	1	149	
28	1	110	
26	2	38,146.	
23	1	79	
21	2	147,64759.	
20	2	35,148.	
19	1	4	
18	2	7,101.	
16	2	99,145.	
15	1	97	
14	2	104,109.	
13	2	39,143.	
12	3	2,12,64758.	
11	2	105,64756.	
8	2	1,5.	
6	1	64755	
3	1	8	
1	7	2,3,7,9,10.64757, MIN-EN#1(2meters width)	
Silts		Sb Content	
ppm	number	location	
5	5	Slesse#3,SL#1,G#3, G#4,G#5.	
4	1	G#2	
3	3	Slesse#2,Slesse#4,G#6.	
2	1	Slesse#5	
1	2	G#1,G#7.	
Soils		n/a	
Rocks		n/a	
Silts		Bi Content	
ppm	number	location	
35	1	G#3	
21	1	G#5	
17	1	G#4	
13	1	G#2	
12	1	G#6	
10	1	150	
9	3	Slesse#2,Slesse#4,SL#1.	
8	4	Slesse#3,G#1,31,34.	
7	2	G#7,37.	
6	2	18(40mesh),SL#5.	
5	4	16,22,24,29.	

continued on p 18...

Table II cont.

Bi Content

Silts		number	location
ppm			
4		3	15,27,46.
3		1	43
Soils		number	location
ppm			
13		2	65,140.
12		3	116,138,141.
11		19	32,44,45,63,67,69,71, 73,11,113,119,120,124, 125,128,130,131,139.
10		11	36,64,68,75,83,117,126, 127,129,133,136.
9		16	19,25,28,50,53,66,70, 89,94,112,118,123, 132,134,135,121.
8		18	20,23,30,41,42,48,52, 59,60,61,62,87,88,90, 91,92,115,122.
7		13	51,54,55,56,58,72,76, 78,80,81,82,83,84.
6		5	57,74,85,86,95.
5		2	21,33.
4		1	77
Rocks		number	location
ppm			
173		1	8
166		1	10
147		1	3
130		1	13(2meters width)
89		1	9
72		1	7
52		1	1
33		1	6
16		1	5
14		1	104
13		1	49
12		1	108
11		3	2,17,146.
10		4	11,14,4,99.
9		1	39
8		2	143,145.
7		4	100,109,148,149.
6		7	3,35,79,96,102,110,147.
4		2	6,12
3		2	38,47.
1		7	97,98,101,144,151,152.

continued on p 19...

Table II cont.

Mo Content

Silts

ppm
6
4
3

number
1
6
6

location
150
15,18,22,27,31,34.
16,24,29,37,43,46.

Soils

8
7
6

5

4

3

1
3
23

39

21

3

112
42,86,117.
32,50,53,54,55,56,57,
58,67,68,76,78,81,85,
87,89,91,115,116,
119,131,141,121.
48,52,59,60,61,62,63,
64,65,66,69,70,72,74,
75,82,84,88,90,93,94,
95,113,114,118,120,123,
124,126,127,128,129,132,
133.
20,23,25,28,30,36,91,44,
45,51,71,73,77,80,83,92,
111,122,125,130,135.
19,21,33.

Rocks

ppm
2,083
41
30
29
15
13
12
9
8
7
6
5
4

3
2
1

number
1
1
1
1
3
1
1
2
2
2
6
5
12

4
3
1

location
38(Chris Creek float)

49
137
6,144,152.
8
47
96,108.
7,39.
3,5.
2,10,103,4,35,79.
104,143,145,1,99.
9,11,13,17,98,101,107,
109,146,147,148,110.
12,14,105,149.
97,100,106.
102

Pb Content

Silts

ppm
33
22
21
19
18
16

number
1
1
1
1
1
2

location
150
34
27
34
24
15,18(40mesh).

continued on p 20...

Table II cont.

Pb Content

Silts

ppm	number	location
15	1	22(40mesh)
13	2	16,37.
11	1	29(40mesh)
9	2	43,46.

Soils

ppm	number	location
98	1	111
53	1	121
42	2	53,140
40	3	67,115,126.
39	1	65
38	2	112,125.
35	7	58,60,66,68,123,128, 141.
34	4	119,120,133,134.
33	4	72,74,89,129.
32	4	93,114,127,139.
31	6	59,90,91,118,132,136.
30	4	32,61,113,122.
29	6	54,62,73,86,117,130.
28	4	50,69,124,135.
27	3	52,63,116.
26	3	76,131,138.
25	7	44,57,70,75,78,80,94.
24	4	55,87,88,95.
23	4	56,64,71,92.
22	2	48,81.
21	3	19,36,51.
20	1	23
19	6	20,30,42,45,82,84.
18	1	85
17	1	28
15	3	41,77,83.
14	1	33
13	2	21,25.

Rocks

ppm	number	location
73	1	8
63	1	10
61	1	3
44	1	7
37	1	9
34	1	47
33	1	6
30	1	97
29	1	64756
28	1	64759
27	1	49
25	1	13(2meters width)

continued on p 21...

Table II cont.

Pb Content

Rocks

ppm	number	location
26	2	1,4.
24	1	64757
23	4	17,96,99,106.
21	3	35,79,143.
20	2	105,108.
19	2	11,149.
17	2	109,146.
16	7	14,100,103,145,51,148, 110.
15	2	147,64758.
14	1	64755
13	3	98,104,137.
12	3	2,39,MIN-EN#1(2meters width).
11	1	107
10	2	12,38.
9	1	144
8	1	101
3	1	102
1	2	151,152.

Zn Content

Silts

ppm	number	location
142	1	150
131	1	G#4
97	1	G#5
96	1	G#1
86	1	34
84	1	G#6
78	1	SL#1
77	1	37
74	2	G#7,24.
70	1	G#2
69	1	16
67	1	G#3
66	2	Slesse#3,27.
65	2	15,18(40mesh).
64	2	Slesse#2,Slesse#5.
60	1	31
55	1	Slesse#4
49	1	46
47	2	29(40mesh).
39	1	43

Soils

ppm	number	location
293	1	73
263	1	48
208	1	87

continued on p 22...

Table II cont.

Zn Content

Soils	ppm	number	location
	149	1	111
	146	1	63
	135	1	53
	132	1	65
	125	1	67
	124	1	62
	121	1	84
	116	1	61
	113	1	66
	110	4	56,58,74,86.
	109	1	68
	108	3	55,91,121.
	105	2	92,117.
	104	3	69,76,94.
	103	1	93
	101	1	59
	99	1	57
	98	1	64
	97	2	83,95.
	96	1	54
	95	1	82
	94	2	70,118.
	92	3	72,88,89.
	91	4	32,60,78,112.
	88	2	41,122.
	87	1	81
	86	5	50,52,80,114,124.
	84	4	116,120,127,130.
	83	2	123,90.
	79	2	113,129.
	77	2	136,140.
	75	2	115,138.
	74	2	71,141.
	73	2	126,139.
	72	1	75
	71	1	131
	70	3	19,45,128.
	67	3	44,132,134.
	65	2	36,135.
	56	2	25,42.
	52	1	30
	51	2	20,28.
	49	2	23,33.
	44	1	77
	42	1	21

continued on p 23...

Table II cont.

Rocks	Zn Content	location
ppm	number	
670	1	103752H
460	1	64757
380	1	64758
345	1	MIN-EN#1(2meters width)
301	1	152
249	1	8
173	1	7
154	1	10
136	2	3,47.
135	1	6
121	1	137
115	1	144
103	1	100
100	1	9
85	1	103751H
78	1	49
71	1	149
69	1	11
67	1	151
66	1	103
63	1	107
60	1	105
58	3	6.9,17.
57	1	4
53	1	99
52	2	14,96.
50	2	145,108.
45	2	1,2.
44	1	35
43	1	98
40	1	104
39	2	147,64755.
36	1	39
35	4	79,97,102,148.
33	1	12
32	1	64756
30	1	146
28	1	110
25	1	13(2meters width)
24	1	38
21	1	5
20	1	64579
18	1	101

4. "location" refers to map locations, numbers 1,2, etc. in location column are the last two or three digits in sequence, unless otherwise specified; i.e. 38=8312038(8=year;3=time; 1=sampler; 2=rock float; last three digits are sequence.).
 1=outcrop
 6=soil sample
 4=silt sample

Table III

		Au Content	
Rocks	g/tonne	number	location ⁵
	22.90	1	103752H
	14.10	1	103751H
	.27	1	152
	.07	1	151
	.006	1	64751
	.001	3	64752, 64753, 64754.

		Ag Content	
Rocks	g/tonne	number	location
	0.29	1	64751
	no detection	3	64752, 64753, 64754.

		Cu Content	
Rocks	%	number	location
	.439	1	64751
	no detection	3	64752, 64753, 64754.

Table Summary

The presence of some highly anomalous rock samples in gold, silver, copper, and arsenic on the TORB ZONE is very encouraging to say the least. This is not to say that the WEST TORB ZONE and the HARK ZONE are noneconomical but, simply less prospected to date. The amounts of sulphides present in those zones may point the way to greater hidden finds. Also the molybdenum found in float in Chris creek and the ROCK O.C. sample must be prospected to locate their sources. The entire east side of the claims have seen little prospecting to date and should also be prospected more thoroughly.

As can be seen in the previous tables a number of samples taken during 1988 were anomalous in several elements. The reconnaissance survey carried out in the past year has been successful in identifying at least one possible economic zone. Continued use of geochemical prospecting will continue to be utilized in prospecting the Roy Group of mineral claims.

5. See footnote 4.

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COST SHEETFebruary 1988

General.....	\$ 3.60
Truck rental 6@\$25.00(idle).....	\$ 150.00
Truck rental 2@\$50.00.....	\$ 100.00
Equipment rental(chainsaw, camp).....	\$ 300.00
Fuel.....	\$ 153.83
Food.....	\$ 279.95
Equipment(Soil bags, hip chain etc.).....	\$ 686.82
Lodging.....	\$ 50.20
Geochem(Assay results).....	\$ 203.80
Maps.....	\$ 28.87
Wages 8@ \$125.00.....	\$1000.00
Office.....	\$ 43.77
.....	
TOTAL	\$3,000.84

March/April 1988

General.....	\$ n/a
Truck rental 2@ \$ 50.00.....	\$ 100.00
Fuel.....	\$ 51.01
Food.....	\$ 29.68
Geochem(Assay results).....	\$ 167.55
Wages 2@ \$ 150.00.....	\$ 300.00
Office.....	\$ 116.96
.....	
TOTAL	\$ 665.20

October/December 1988

General.....	\$ 29.27
Truck rental 4 @ \$ 50.00.....	\$ 200.00
Truck rental 8 @ \$ 25.00.....	\$ 200.00

continued on p 28...

COST SHEET

October/December 1988 cont.

Equipment rental (chainsaw, camp).....	\$ 296.00
Fuel.....	\$ 166.99
Food.....	\$ 406.88
Equipment(Soil bags, acid, etc.).....	\$ 648.33
Lodging.....	\$ 51.80
Geochemistry(Assay results).....	\$1791.95
Maps/Airphotos.....	\$ 115.51
Wages	
Assistant 10 @ \$ 100.00.....	\$1000.00
Supervisor 12 @ \$ 135.00.....	\$1620.00

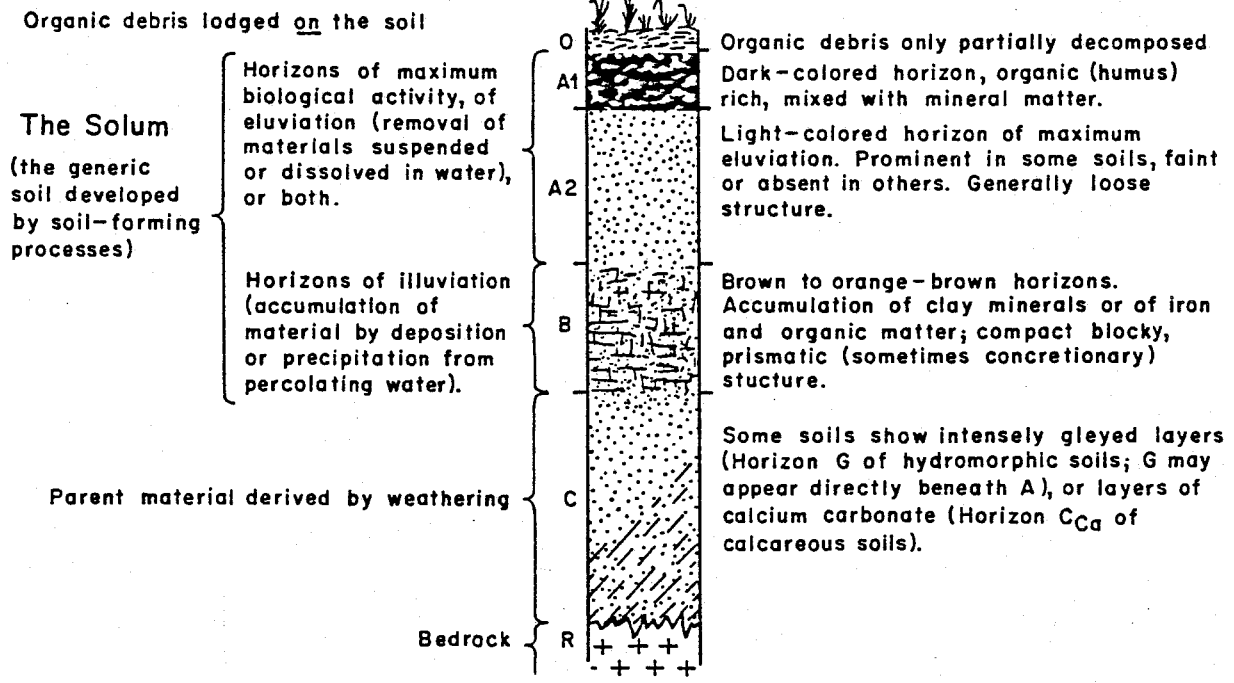
.....
TOTAL \$6526.53
.....

January 1989

Office.....	\$ 450.00
.....	
TOTAL	\$ 450.00
.....	

February 1988 Total.....	\$3000.84
March/April 1988 Total.....	\$ 665.20
October/December 1988 Total.....	\$6526.53
January 1989 Total.....	\$ 450.00
.....	

TOTAL ALL \$ 10,642.57
.....



Hypothetical soil profile showing the principal horizons.

Figure 1 from Geochemistry in Mineral Exploration p 151, 1979.
(Soil samples on Roy Group taken from top of the B horizon.)



LEGEND

- CENOZOIC**
- QUATERNARY**
PLEISTOCENE AND RECENT
25 Glacial, glaciofluvial and fluvial gravel, sand and clay, talus and slope-wash deposits
- TERTIARY**
MIOCENE AND EARLIER
24 Granodiorite, quartz diorite
- COQUIHALLA GROUP
23 Basalt, rhyolite, tuff, agglomerate, diorite
- 22 SKAGIT FORMATION: andesite, tuff, agglomerate
- CRETACEOUS AND/OR TERTIARY
EOCENE AND PALEOCENE OR UPPERMOST CRETACEOUS
21 Conglomerate, sandstone
- EARLY TERTIARY AND/OR LATE CRETACEOUS
20 Foliated granodiorite, quartz diorite
- CRETACEOUS
UPPER CRETACEOUS OR(?) OLDER
19 Quartz diorite

TRIASSIC AND JURASSIC
UPPER TRIASSIC, LOWER AND UPPER JURASSIC

- 4 CULTUS FORMATION: pelite, sandstone

TRIASSIC
UPPER TRIASSIC
NICOLA GROUP

- 3 Porphyritic andesite and basalt

PENNSYLVANIAN AND PERMIAN
CHILLIWACK GROUP

- 2 2a. basic volcanic rocks and pelites; 2a, pelite, siltstone, sandstone; 2b. Lower Pennsylvanian limestone; 2c, pelite, sandstone, conglomerate; 2d. Lower Permian limestone; 2e, basic volcanic flows, intermediate to acidic tuff and agglomerate

DEVONIAN(?), CARBONIFEROUS(?) AND PERMIAN(?)
HOZAMEEN GROUP

- 1 1, pelite, chert, basic volcanic rock, minor limestone; 1a, chert, basic volcanic rock; 1b, basic volcanic rock; 1c, chert, pelite; 1d, basic volcanic rock, chert, pelite; 1e, limestone

ULTRAMAFIC ROCK

- A Aa, serpentinite, serpentinized peridotite; includes some Upper Paleozoic volcanic rocks in broad belt northeast of Hope; Ab, pyroxenite; Ac, hornblende

SCHIST, AMPHIBOLITE AND PHYLLITE

- B Ba, graphitic and quartzose phyllite; Bb, schist, amphibolite; Bc, migmatitic equivalent of Bb; Bd, amphibolite, hornblende, quartz diorite in southwestern part of map-area between Welch Peak and Slesse Mountain; these rocks are complexly imbricated with Upper Paleozoic rocks and the area shown as Bd includes both

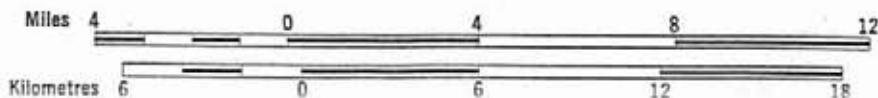
GNEISS



49°00'
122°00'
Published 1970. Revised 1970

MAP 12-1969
PAPER 69-47
GEOLOGY
HOPE
(West Half)
BRITISH COLUMBIA

Scale 1:250,000





Boundary Fault

CANADA
USA


ROY 5,6
LCP


Boundary Fault

Exposed near Red Mtn. Mine it is nearly vertical and strikes $N5^{\circ}E$, north of the mine on the Roy Group, the fault turns around a subvertical axis and strikes $N30^{\circ}E$. (Jewett's interpretation).


LEGEND


CHILLIWAUCK GROUP

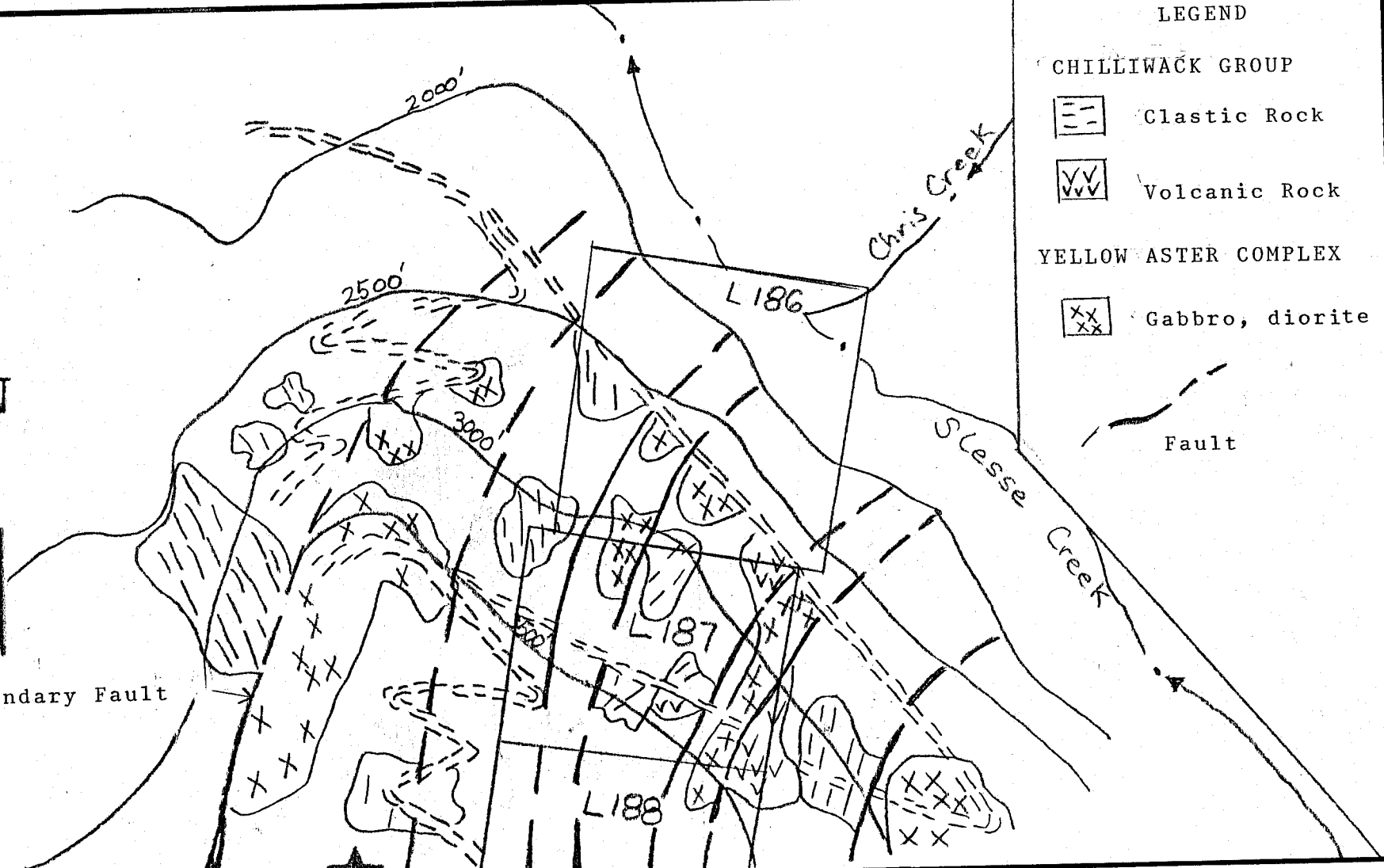
 Clastic Rock

 Volcanic Rock

YELLOW ASTER COMPLEX

 Gabbro, diorite

 Fault



PROPERTY GEOLOGY BY JEWETT 1984 THESIS.

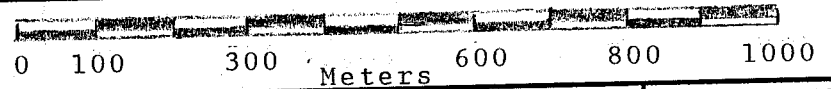
SCALE: 1:10000

APPROVED BY:

DRAWN BY BRS

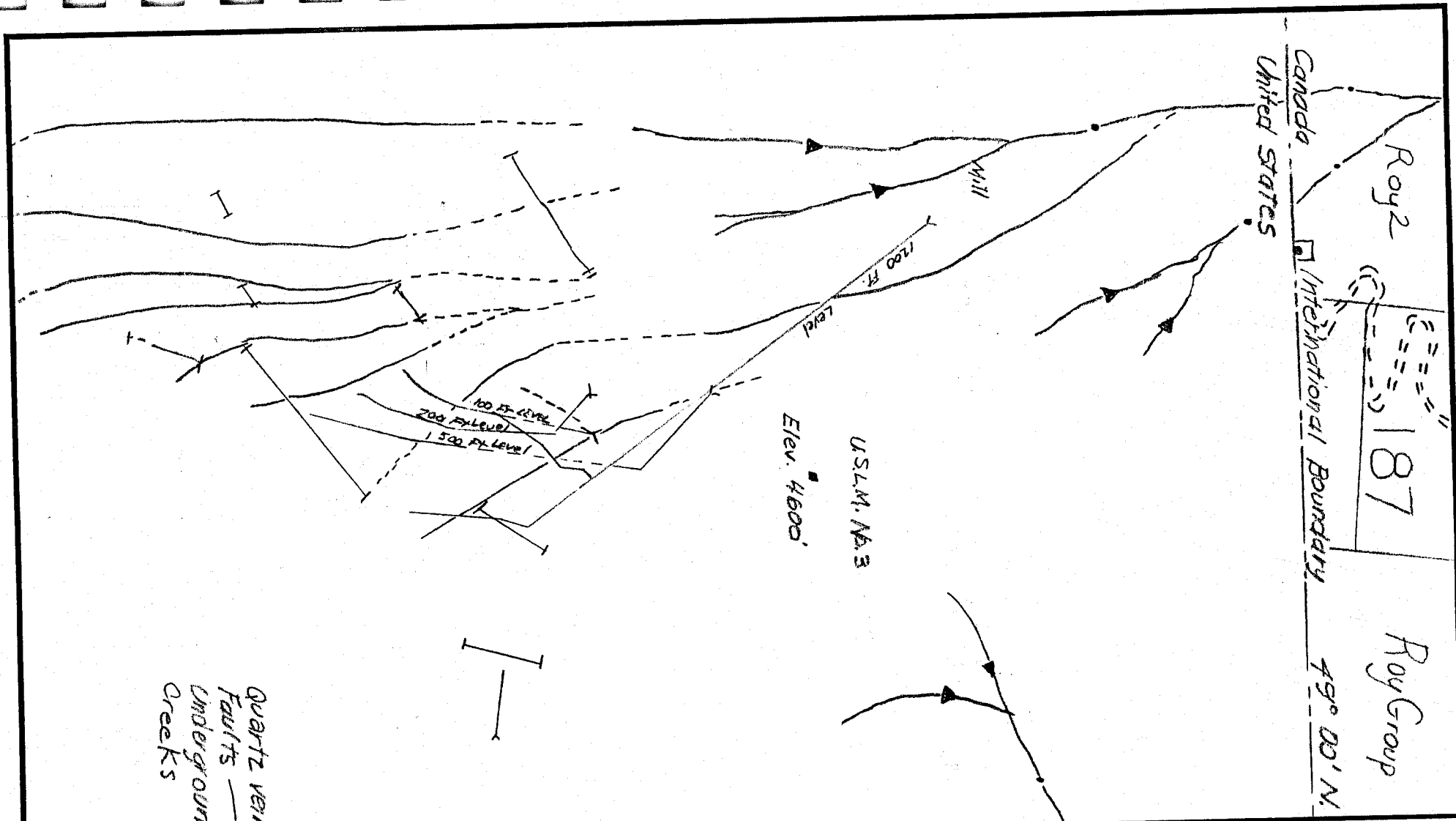
DATE: Jan. 4/89

REVISED 1989



Outcrop, TORB, W. TORB ZONES

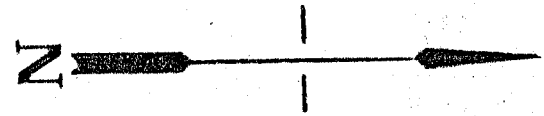
DRAWING NUMBER



COMPILATION OF TRANSIT AND BRUNTON TRAVERSE
 by Max Krom during October and November, 1936.

SCALE: 1" = 600'	APPROVED BY:	DRAWN BY BRS
DATE: Jan. 4/1989		REVISED
SKETCH BY KROM (1936) OF QUARTZ VEINS, FAULTS IN THE AREA OF THE BOUNDARY RED MOUNTAIN MINE.		
Loc: NE ¼ Sec. 4; (40-9E), approx. 2 kilometers south of the Can-US Border		DRAWING NUMBER

Quartz veins
 Faults
 Underground workings
 Creeks



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Certificate of ASSAY

Company: B. SAUER
Project: ROY GROUP
Attention: BRIAN SAUER

File: 8-257/P1
Date: MAR 5/88
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	CU %	AG G/TONNE	AG OZ/TON	AU G/TONNE	AU OZ/TON
64751-C	.439	9.8	0.29	.21	0.006
64752-C				.03	0.001
64753-C				.04	0.001
64754-C				.02	0.001

Certified by _____



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TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: AURUM GEOLOGICAL CONSULTANTS INC.
Project: ROY
Attention: HARMEN KEYSER

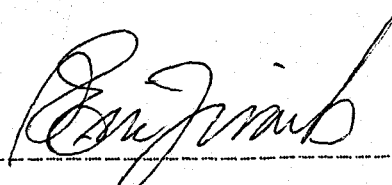
File: 8-421/F1
Date: APRIL 20/88
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	PB PPM	ZN PPM	CU PPM	AG PPM	AS PPM	AU PPB
64 755	14	39	445	1.3	6	18
64 756	29	32	3360	7.2	11	492
64 757	24	460	90750	29.6	1	1320
64 758	15	380	71250	38.4	12	7400
64 759	28	20	865	1.7	21	83
MIN-EN#1 ZMETERS WIDE	12	345	76500	49.8	1	818

*SOME OF THESE SAMPLES SHOULD HAVE BEEN REQUESTED FOR ASSAY.

Certified by



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COMPANY: B. SAUER

MIN-EN LABS ICP REPORT

(ACT:F31) PAGE 1 OF 1

PROJECT NO: ROY GROUP

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 8-257

ATTENTION: BRIAN SAUER

(604)980-5814 OR (604)988-4524

* TYPE SOIL GEOCHEM * DATE: MAR 4, 1988

(VALUES IN PPM)	AG	AS	BI	CU	SB	ZN	AU-PPB
SLESSE #2	.9	1	9	52	3	64	3100
SLESSE #3	.6	1	8	42	5	66	1000
SLESSE #4	1.0	1	9	36	3	55	243
SLESSE #5	.4	15	6	24	2	64	3800
SL #1	.3	2	9	240	5	78	21
G #1	.8	13	8	71	1	96	103
G #2	.9	12	13	62	4	70	3000
G #3	1.7	21	35	65	5	67	10000
G #4	.9	16	17	81	5	131	800
G #5	22.7	9	21	78	5	97	7000
G #6	1.2	1	12	72	3	84	1700
G #7	1.0	14	7	64	1	74	820

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: AURUM GEOLOGICAL CONSULTING INC.

File: B-421/P1

Project:

Date: APR. 20/88

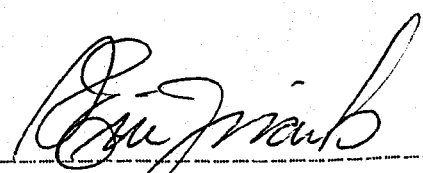
Attention: HARMEN KEYSER

Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AU-FIRE PPB
CG 101	14
CG 102	22
CG 103	13
CG 104	8
CG 105	192

Certified by _____



MIN-EN LABORATORIES LTD.

MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: AURUM GEOLOGICAL CONSULTING LTD.

File: 8-450/P1

Project:

Date: APR. 29/88

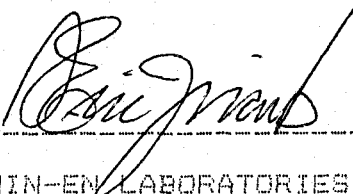
Attention: HARMEN KEYSER

Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AU-FIRE FPB
SG 106	40
SG 107	10

Certified by



MIN-EN LABORATORIES LTD.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: KERR ADDISON MINES LTD.
(ATTN: RAY DUJARDIN)
703 - 1112 W. PENDER ST.
VANCOUVER, B.C.
V6E 2S1

Project: B-01A-07
Comments: CC: TOR BRULAND

Page No. : 1
Tot. Pages: 1
Date : 21-APR-88
Invoice #: I-8814317
P.O. #: 24924

B-02

CERTIFICATE OF ANALYSIS A8814317

SAMPLE DESCRIPTION	PREP CODE	Cu ppm	Zn ppm	Au g/tonne						
103751 H 103752 H	207 -- 207 --	3100 >10000	85 670	14.10 22.90	Sulphide lense below road Cu stained	Sulphide	below road	APR 22 1988		

PER _____
KERR ADDISON MINES LTD.

R. Swaites

COMPANY: B. SAUER
 PROJECT NO: ROY GROUP
 ATTENTION: B. SAUER/H. KEYSER

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

(ACT:F31) PAGE 1 OF 1
 FILE NO: 8-1815R/P1+2
 DATE: OCTOBER 21, 1988

(604) 980-5814 OR (604) 988-4524 * TYPE ROCK GEOCHEM *

(VALUES IN PPM)	AS	BI	CU	MO	PB	ZN	AU-PPB	
8311002	12	11	1801	6	12	45	40	
8311003	1	147	37760	7	61	136	1150	
8311006	63	33	8622	15	33	135	530	
8311007	18	72	18793	8	44	173	375	
8311008	3	173	46348	13	73	249	480	
8311009	1	89	23122	4	37	100	220	
8311010	1	166	41005	6	63	154	560	
8311011	79	10	1000	4	19	69	5	
8311012	12	4	737	3	10	33	10	
8311013	33733	130	2164	4	25	25	130	
8311014	2160	10	160	3	16	52	5	
8311017	319	11	22	4	23	58	5	
8311047	101	3	52	12	34	136	10	
8311098	33	1	13	4	13	43	5	
8311100	33	7	72	2	16	103	5	
8311101	18	1	101	4	8	18	5	
8311103	58	6	75	6	16	66	5	
8311104	14	14	32	5	13	40	5	
8311143	13	8	23	5	21	31	10	
8311144	44	1	4	15	9	115	5	
8311145	16	8	23	5	16	50	5	
8312001	8	52	13109	5	26	45	270	
8312004	19	10	1214	6	26	57	15	
8312005	8	16	2593	7	16	21	1000	
8312035	20	6	57	6	21	44	5	
8312037	37	1	5	29	13	121	45	
8312038	26	3	13	2083	10	24	5	
8312039	13	9	17	8	12	36	5	
8312049	68	13	54	30	27	78	10	
8312079	23	6	46	6	21	35	5	
8312096	34	6	49	9	23	52	5	
8312097	15	1	5	2	30	35	5	
8312099	16	10	363	5	23	53	10	
8312102	1	6	3	1	3	35	5	
8312105	11	1	49	3	20	60	5	
8312106	47	4	358	2	23	58	15	
8312107	1	1	42	4	11	63	5	
8312108	42	12	82	9	20	50	5	
8312109	14	7	7	4	17	58	5	
8312146	26	11	71	4	17	30	10	
8312147	21	6	78	4	15	39	5	
8312148	20	7	207	4	16	35	5	
8312149	29	7	29	3	19	71	5	
ROCKFLOAT	8312110	28	6	334	4	16	28	5
ROCKO.C.	TORB?	5	27	352	2	14	33	20000

COMPANY: B.SAUER
 PROJECT NO: ROY GROUP
 ATTENTION: B.SAUER

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524 * TYPE SOIL GEOCHEM *

(ACT:F31) PAGE 1 OF 1
 FILE NO: 8-1815/P1+2
 DATE: OCTOBER 25, 1988

(VALUES IN PPM)	AS	BI	CU	MO	PB	ZN	AU-PPB
8314015	10	4	23	4	16	65	5
8314016	17	5	11	3	13	69	145
831401840M	25	6	11	4	16	65	100
831402240M	8	5	12	4	15	47	10
8314024	4	5	13	3	18	74	5
8314027	10	4	13	4	21	66	5
831402940M	3	5	13	3	11	47	15
8314031	22	8	13	4	19	60	5
8314034	36	8	23	4	22	86	5
8314037	35	7	17	3	13	77	10
8314043	1	3	12	3	9	39	10
8314046	1	4	10	3	9	49	5
8314150	34	10	54	6	33	142	5
8316019	46	9	10	3	21	70	5
8316020	35	8	16	4	19	51	5
8316021	12	5	10	3	13	42	10
8316023	26	8	12	4	20	49	5
8316025	23	9	12	4	13	56	5
8316026N/S	N/S						
8316028	24	9	23	4	17	51	5
8316030	16	8	19	4	19	52	5
8316032	48	11	13	6	30	91	5
8316033	18	5	15	3	14	49	5
8316036	27	10	21	4	21	65	5
8316040N/S	N/S						
8316041	43	8	13	4	15	88	10
8316042	26	8	12	7	19	56	5
8316044	21	11	18	4	25	67	5
8316045	26	11	36	4	19	70	5
8316048	101	8	32	5	22	263	5
8316050	35	9	12	6	28	86	5
8316051	20	7	10	4	21	76	5
8316052	22	8	13	5	27	86	10
8316053	25	9	24	6	42	135	5
8316054	36	7	11	6	29	96	5
8316055	29	7	17	6	24	108	5
8316056	24	7	15	6	23	110	10
8316057	31	6	13	6	25	99	5
8316058	38	7	16	6	35	110	5
8316059	39	8	22	5	31	101	5
8316060	40	8	13	5	35	91	5
8316061	33	8	12	5	30	116	5
8316062	35	8	26	5	29	124	10
8316063	24	11	12	5	27	146	5
8316064	20	10	11	5	23	98	5
8316065	75	13	22	5	39	132	5
8316066	37	9	19	5	35	113	5
8316067	48	11	18	6	40	125	5
8316068	58	10	16	6	35	109	5
8316069	62	11	11	5	28	104	5
8316070	45	9	14	5	25	94	10
8316071	20	11	11	4	23	74	5
8316072	37	7	46	5	33	92	5
8316073	36	11	65	4	29	293	5
8316074	24	6	22	5	33	110	5
8316075	43	10	13	5	25	72	5
8316076	29	7	17	6	26	104	5
8316077	13	4	17	4	15	44	5
8316078	42	7	34	6	25	91	5
8316080	19	7	35	4	25	86	5

COMPANY: B. SAUER
 PROJECT NO: ROY GROUP
 ATTENTION: B. SAUER

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604) 980-5814 OR (604) 988-4524

(ACT:F31) PAGE 1 OF 1
 FILE NO: 8-1815/P3+4
 DATE: OCTOBER 25, 1988

(VALUES IN PPM)	AS	BI	CU	MO	PB	ZN	AU-PPB
8316081	31	7	31	6	22	87	10
8316082	45	7	51	5	19	95	5
8316083	47	7	44	4	15	97	5
8316084	40	7	76	5	19	121	5
8316085	38	6	36	6	18	90	5
8316086	50	6	43	7	29	110	10
8316087	34	8	59	6	24	208	20
8316088	36	8	21	5	24	92	5
8316089	30	9	12	6	33	92	5
8316090	32	8	13	5	31	83	5
8316091	41	8	14	6	31	108	10
8316092	51	8	66	4	23	105	5
8316093	49	10	43	5	32	103	5
8316094	26	9	23	5	25	104	5
8316095	43	6	46	5	24	97	5
8316111	46	11	108	4	98	149	5
8316112	67	9	72	8	38	91	10
8316113	44	11	28	5	30	79	5
8316114	56	11	29	5	32	86	5
8316115	50	8	47	6	40	75	5
8316116	38	12	13	6	27	84	5
8316117	52	10	12	7	29	105	5
8316118	52	9	43	5	31	94	5
8316119	57	11	51	6	34	107	5
8316120	55	11	51	5	34	84	10
8316122	36	8	99	4	30	88	5
8316123	42	9	37	5	35	83	5
8316124	50	11	24	5	28	86	5
8316125	56	11	42	4	38	68	5
8316126	59	10	96	5	40	73	5
8316127	38	10	23	5	32	84	5
8316128	50	11	41	5	35	70	5
8316129	52	10	19	5	33	79	5
8316130	45	11	53	4	29	84	5
8316131	49	11	13	6	26	71	5
8316132	49	9	79	5	31	67	5
8316133	65	10	39	5	34	76	5
8316134	58	9	87	5	34	67	5
8316135	36	9	109	4	28	65	5
8316136	40	10	75	5	31	77	5
8316138	53	12	11	5	26	75	10
8316139	44	11	31	5	32	73	5
8316140	69	13	24	5	42	77	5
8316141	44	12	38	6	35	74	5
8316121	49	9	81	6	53	108	10



**MIN-ENV
LABORATORIES LTD.**

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Certificate of ASSAY

Company: B. SAUER
Project: ROY GROUP
Attention: B. SAUER/H. KEYSER

File: 8-1815/P1
Date: OCT 21/88
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON
8311 003	1.40	0.041
8312 005	1.00	0.029
ROCK D.C.	28.40	0.828

Certified by _____

MIN-ENV LABORATORIES LTD.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: SAUER, B.

4604 STRATHCONA RD.
NORTH VANCOUVER, BC
V7G 1G3

Project:

Comments:

**Page No. : 1-A
Tot. Pages: 1
Date : 10-DEC-88
Invoice #: I-8828365
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8828365

SAMPLE DESCRIPTION	PREP CODE		Au	Pt	Al	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
			g/tonne	ppb	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%
8311151	207	238	0.07	< 50	1.85	0.2	1895	90	2.5	< 2	0.04	< 0.5	9	12	11	13.65	< 10	< 1	0.32	10	1.87
8311152	207	238	0.27	—	3.18	15.2	790	20	1.0	< 2	1.86	1.0	51	176	>10000	5.03	< 10	< 1	0.07	< 10	0.74

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY B.C. CERTIFIED ASSAYERS

CERTIFICATION : B. Coughlin



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: SAUER, B.

4604 STRATHCONA RD.
NORTH VANCOUVER, BC
V7G 1G3

Project :
Comments :

**Page No. : 1-B
Tot. Pages : 1
Date : 10-DEC-88
Invoice # : I-8828365
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8828365

SAMPLE DESCRIPTION	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
8311151	207	238	95	41	0.02	10	250	< 2	5	3	7	0.03	10	< 10	22	< 5	67
8311152	207	238	204	15	0.10	72	300	< 2	5	3	44	0.05	< 10	< 10	25	< 5	301

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY B.C. CERTIFIED ASSAYERS

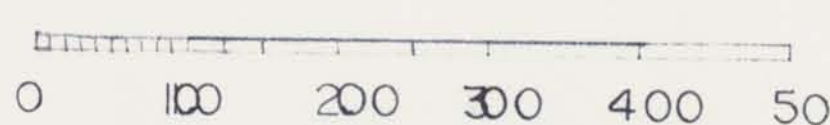
CERTIFICATION : B. Coughlin

ROY GROUP
ROCK
1988

LEGEND

☒ LCP - ROY

○ ROCK SAMPLE
only samples higher
than the average
shown. (Au=ppb;
Cu, As, Mo=ppm)
186, 187, 188 Rev. CG.



Metres
1 : 5000



106
15/358/47
Au, Cu, As

759
83/865/21
Au, Cu, As

99
10/363/53
Au, Cu, As

○79

HARK ZONE

☒ LCP
ROYI-2

○49
10
Au

96 97
○ ○

140
5/160/2160
Au, Cu, As
○47
10/52/101
Au, Cu, As.

○38/39 38 Mo
○35 2083

186 ○64755
18/445/6
Au, Cu, As

○110 ○148 ○149
5/207/20
5/334/28 Au, Cu, As
Au, Cu, As. ○147

146 ○137 145 137 151
10 ○144 151 45 1895
Au. Au As

○13
130/2164/33733 Au, Cu, As

187 TORB ZONE
(see inset)

188

○143

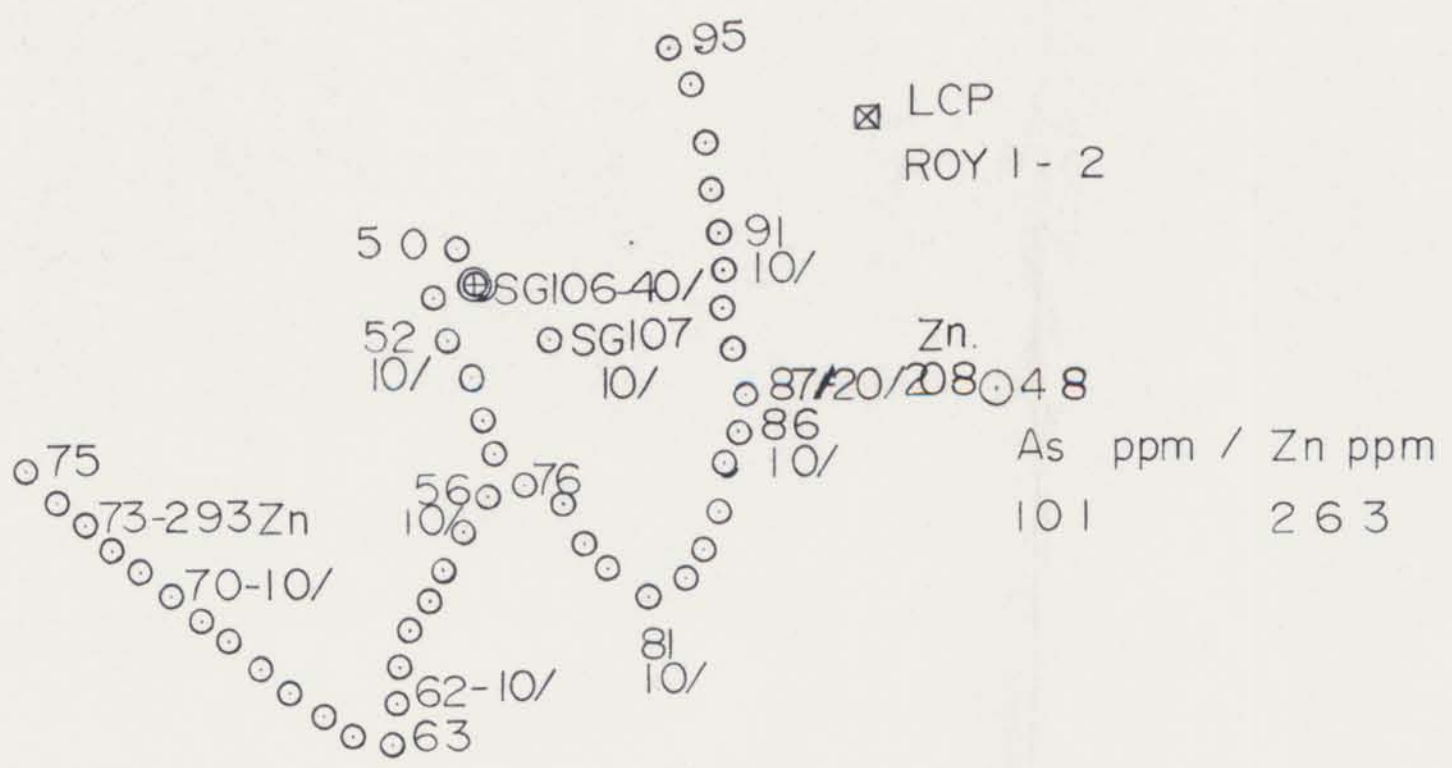
GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,237

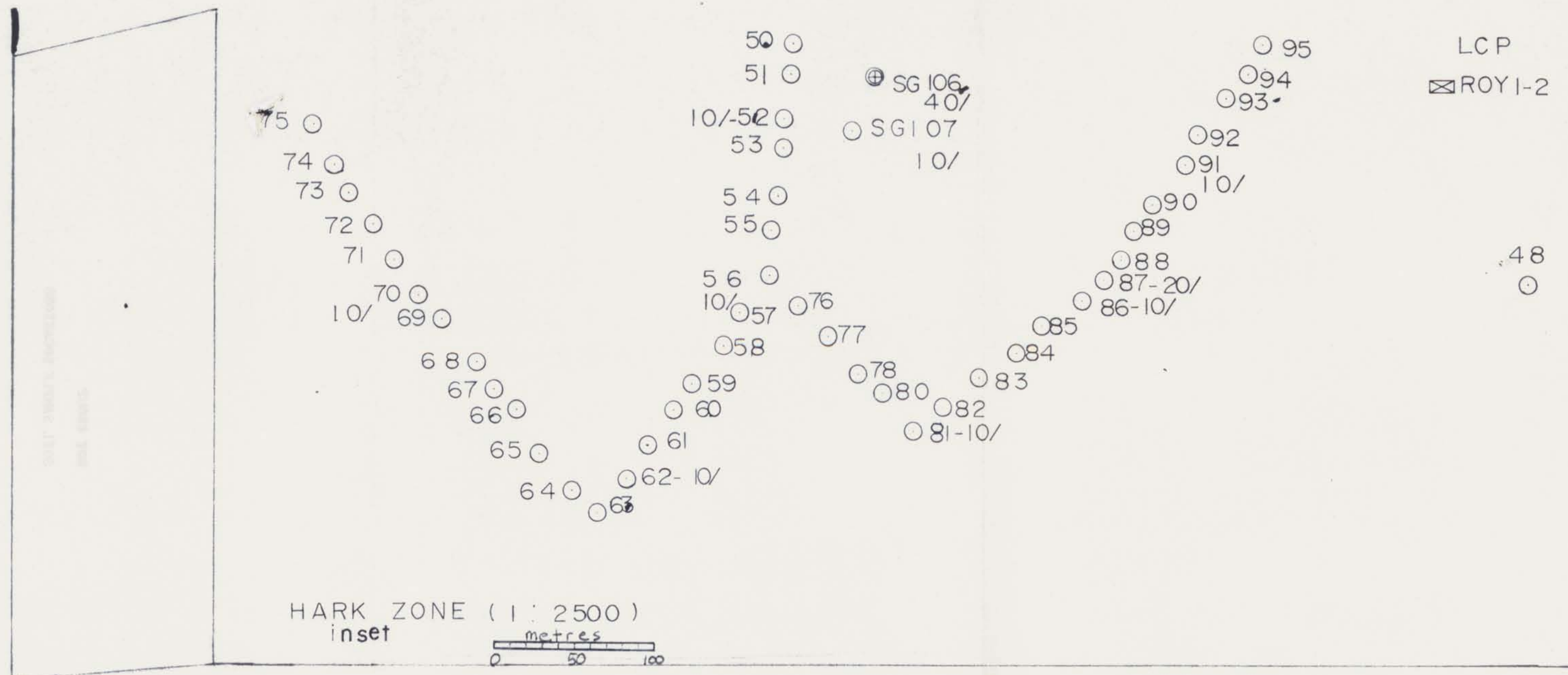
○17
5/22/319
Au, Cu, As

CANADA

USA



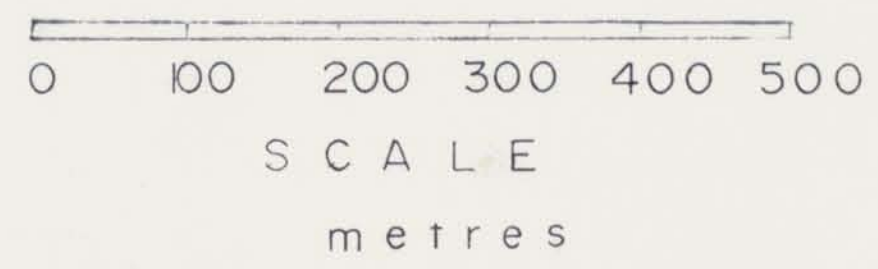
HARK ZONE (1:5000)



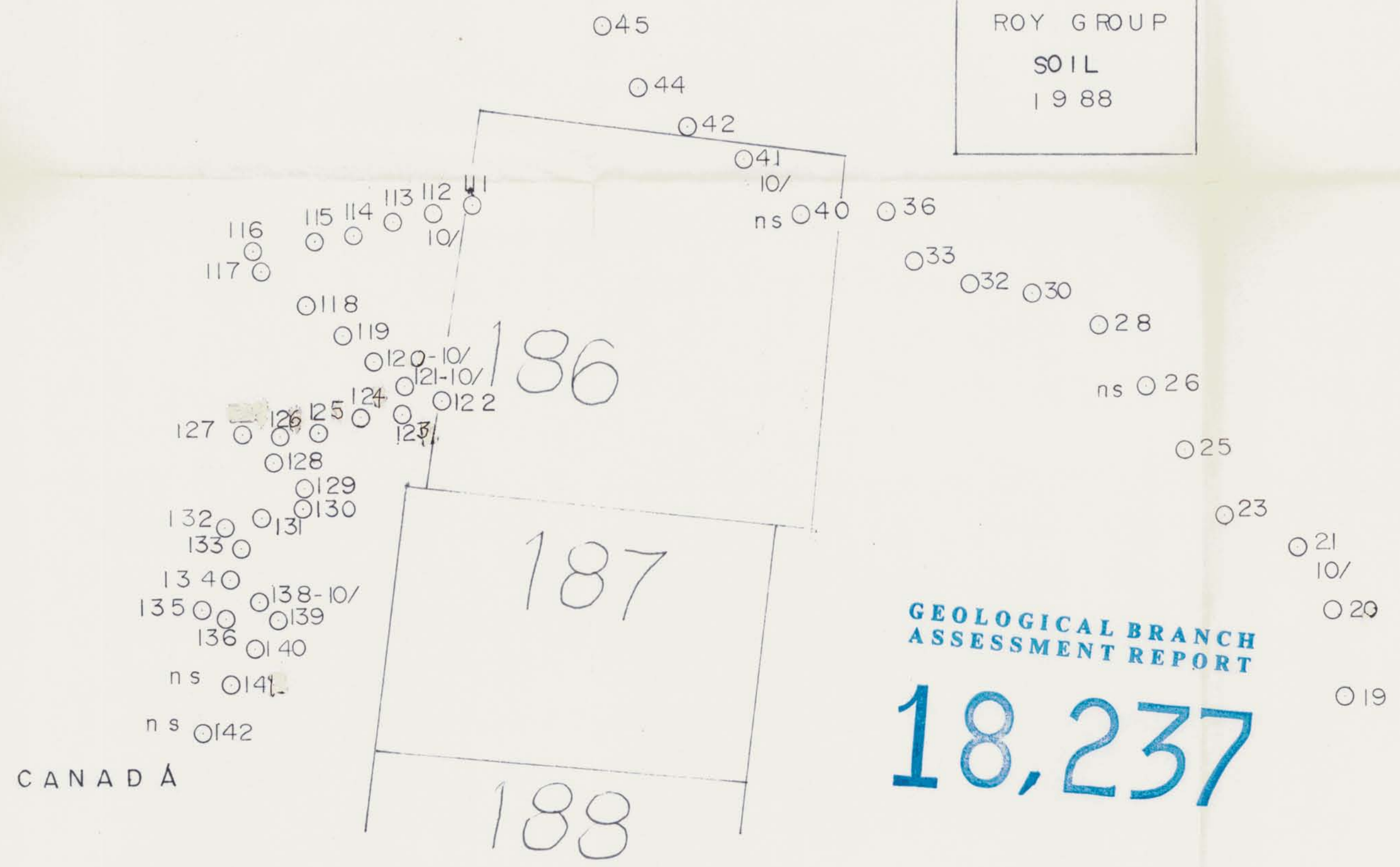
HARK ZONE (1:2500)
inset

LEGEND

SOIL SAMPLE	○
(above the norm)	⊕
Number	21
ppb.	
Au/(> 5 PPb. shown)	10/
ns	no sample
⊗	LCP
186, 187, 188	Rev. C.G.



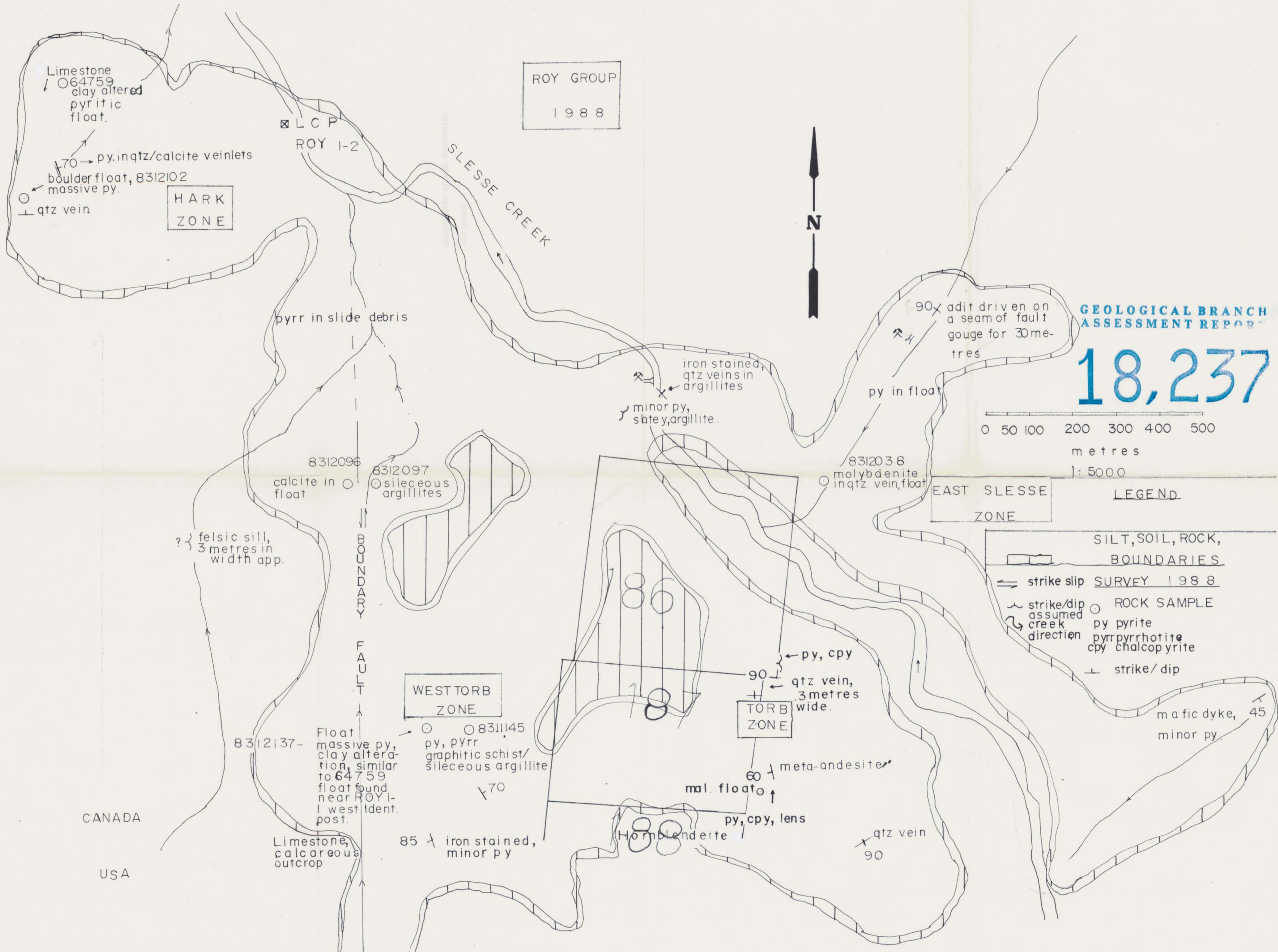
ROY GROUP
SOIL
1988



CANADA

USA

GEOLOGICAL BRANCH
ASSESSMENT REPORT
18,237



GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,237

ROY GROUP
1988

S
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TORB ZONE



064751
013 00103751H
064756

L187

L186

064752


ppb/oz ppm/oz ppm (%) ppm ppm
Au. ton Ag. ton Cu. As. Zn.

751H	/412			3100		85
752H	/670		> 10000			670
751	/006	/29				
752	/001					
754	/001					
756	492/	772	3360		11	32
757	1320/	29.6	90750		1	4.60
758	7400/	38.4	71250		12	3.80
* 2 001	270/		13109		8	45
1 002	40/		1801		12	45
1 003	1150/		37760		1	136
2 004	15/		1214		19	57
2 005	1000/		2593		8	21
1 006	530/		8622		63	135
1 007	375/		18793		18	173
1 008	480/		46348		3	249
1 009	220		23122		1	100
1 010	560		41005		1	154
1 011	5/		1000		79	69
1 012	10/		737		12	33
1 013	130		2164	33733		25
1 152	/009	15.2	>10000		790	301


* 1= Outcrop - numbers refer to October/1988 data,
2= Float prior samples all outcrop.

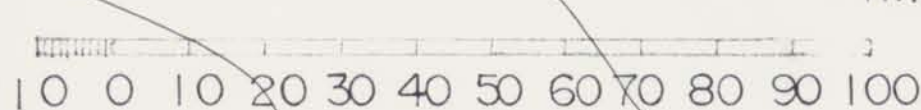
TORB

○ ROCK SAMPLE

L186, =  Access Road

L187, = Rev.C.G.

L186, =  Contour Line (40 metre intervals)



Metres
1:1000 scale

Min-En#1
103752 H →

64757
00010 0001
00009 0002
00008 0007 0003
64758 0006
152 0005

0004

L188

CANADA
U S A

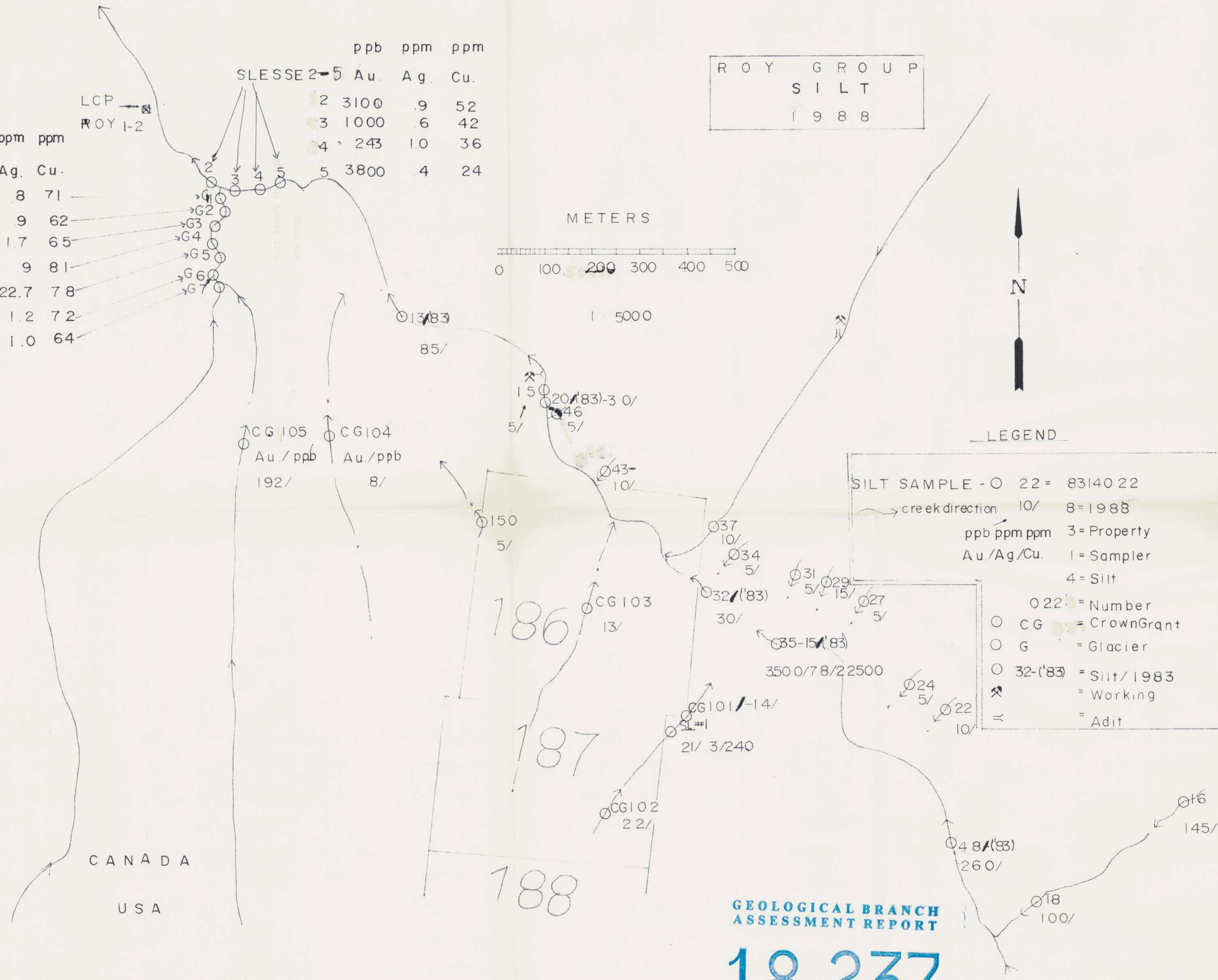
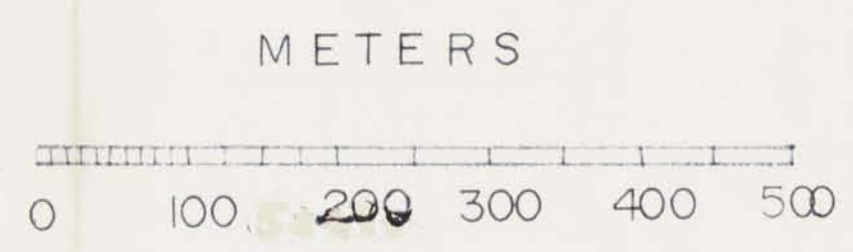
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

18,237

				ppb	ppm	ppm	
				Au.	Ag.	Cu.	
SLESSE 2-5				2	3100	.9	52
ROY 1-2				3	1000	.6	42
				4	243	1.0	36
				5	3800	.4	24

				ppb	ppm	ppm
G1-7				Au.	Ag.	Cu.
1	103	8	71			
2	3000	9	62			
3	10000	1.7	65			
4	800	9	81			
5	7000	22.7	78			
6	1700	1.2	72			
7	820	1.0	64			

ROY GROUP
SILT
1988



LEGEND

SILT SAMPLE - ○ 22 =	8314022
→ creek direction	10/ 8 = 1988
ppb ppm ppm	3 = Property
Au./Ag./Cu.	1 = Sampler
	4 = Silt
○ 022	= Number
○ CG	= Crown Grant
○ G	= Glacier
○ 32-('83)	= Silt/1983
⊗	= Working
=	= Adit

GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,237