

84-#105 - 12101

ASSESSMENT REPORT
GEOCHEMICAL SURVEY
ON THE
HCl MINERAL CLAIM
KAMLOOPS MINING DIVISION
NTS: 92P/9W
51°34'N - 120°21'W

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,101

D. Gamble
March 1984

TABLE OF CONTENTS

	PAGE
INTRODUCTION	1
LOCATION AND ACCESS	1
CLAIM STATISTICS	1
TOPOGRAPHY AND VEGETATION	2
PROCEDURE	2
SOIL GEOCHEMISTRY	3
ROCK GEOCHEMISTRY	8
CONCLUSIONS AND RECOMMENDATIONS	11
COST STATEMENT	12
CERTIFICATE OF AUTHOR	15

APPENDIX

APPENDIX A - Certificates of Analyses

LIST OF ILLUSTRATIONS

		PAGE
FIGURE 1	LOCATION MAP 1:250 000	
FIGURE 2	CLAIM LOCATION MAP 1:50 000	
FIGURE 3	SOIL GEOCHIMISTRY ANOMALOUS ZONE 1:20 000	
MAP HCl-1	GOLD SOIL GEOCHEMISTRY	In Pocket
MAP HCl-2	SILVER SOIL GEOCHEMISTRY	" "
MAP HCl-3	COPPER SOIL GEOCHEMISTRY	" "
MAP HCl-4	ZINC SOIL GEOCHEMISTRY	" "
MAP HCl-5	LEAD SOIL GEOCHEMISTRY	" "
MAP HCl-6	ARSENIC SOIL GEOCHEMISTRY	" "
MAP HCl-7	ROCK GEOCHEMISTRY	" "

INTRODUCTION

Work on the HCl claim was conducted during the period from June 6th through to June 16th, 1983 by Selco, A Division of BP Exploration Canada Limited. The field work consisted of 21.0 line kilometers of gridding, soil sampling at 200 metre intervals, and rock chip sampling. This report contains the results obtained from this geochemical survey.

LOCATION AND ACCESS

The HCl claim is located approximately 95 kilometers north of Kamloops and 12 kilometers west of the North Thompson River in South Central B.C. (See Location Map Figure 1).

Access to the property is gained via 16 kilometers of forest access road leading from Highway #24 approximately 5.5 kilometers N 72 W from Little Fort B.C. This summer only logging road travels along the west side of Deer Lake then swings northeast and cuts across the southeast corner of the property. The U.T.M. coordinates for the HCl L.C.P. are 684,000 ME and 5,714,600 m N.

CLAIM STATISTICS

The HCl claim lies within the Kamloops Mining Division, N.T.S. 92P/9W. HCl is registered in the name of BP Exploration Canada Limited, of Calgary. The name, record number, number of units, and recorded date are as tabulated:

<u>CLAIM NAME</u>	<u>RECORD NO.</u>	<u>UNITS</u>	<u>RECORD DATE</u>
HCl	4363	12	25.02.83

(See Figure 2 Claim Location Map)

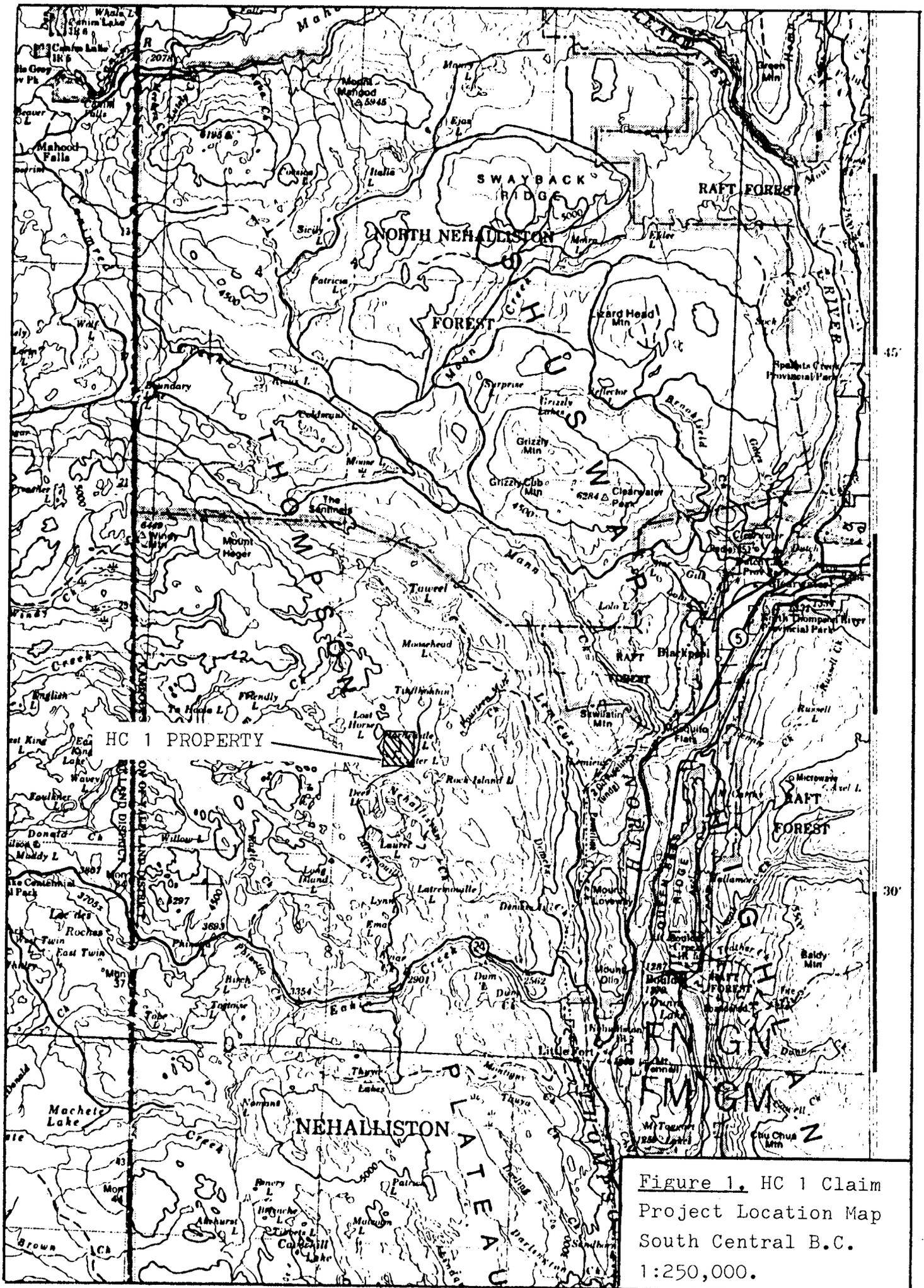


Figure 1. HC 1 Claim Project Location Map South Central B.C. 1:250,000.

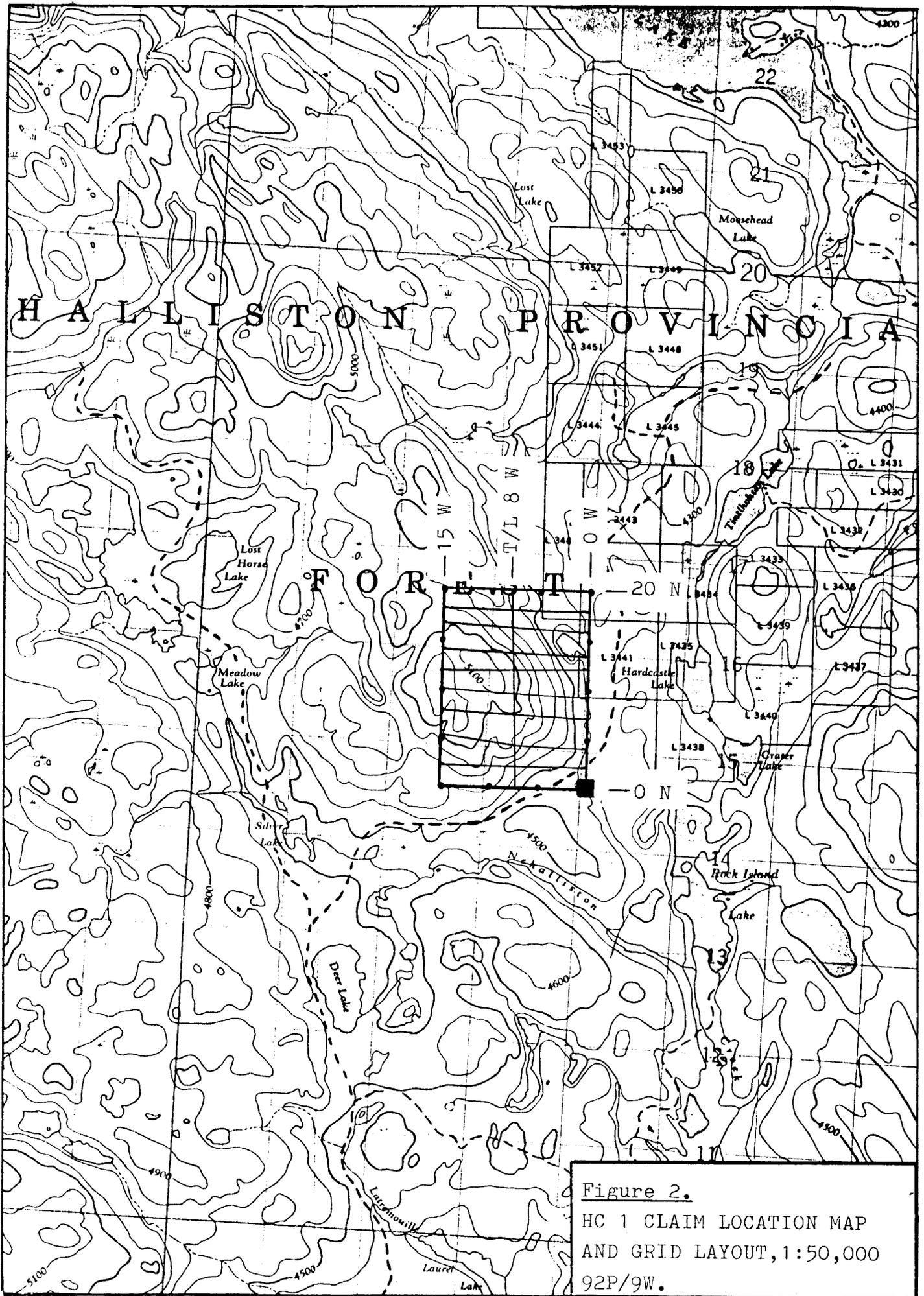


Figure 2.
 HC 1 CLAIM LOCATION MAP
 AND GRID LAYOUT, 1:50,000
 92P/9W.

TOPOGRAPHY AND VEGETATION

The property is situated on a hill 2.5 kilometers northeast of Deer Lake and 1.0 kilometers west of Hardcastle Lake. The local relief is moderate with 700 feet change in elevation from the hill summit (5100 feet A.S.L.) to lower ground on the east slope (4400 feet A.S.L.) A small swampy pond lies in the northeast part of the property.

Vegetation consists of fir and spruce with some recent logging operations at the lower elevations.

PROCEDURE

A compass surveyed, flagged and topofil chained grid totalling 21.0 line kilometers was established from June 6th to 10th, 1983. During the same time a soil geochemical survey was conducted with soil samples collected at approximately 200 meter intervals.

Using the established grid for control a lithochemical sampling program was carried out from June 11th to 16th, 1983. Bedrock samples were collected and locations mapped relative to the grid coordinate system.

All gridding and sampling was conducted by company personnel.

The soil and rock samples were shipped Chemex Labs Ltd. in Vancouver where gold, silver, copper, zinc, lead and arsenic geochemical assay determinations were made.

SOIL GEOCHEMISTRY

A total of 93 soil samples were collected and geochemically analysed for gold, silver, copper, zinc, lead and arsenic. The range of the assay values for the soils taken in this survey are as follows:

Gold: less than 5 ppb (10^9 g/tonne) to 70 ppb.
 Silver: from 0.1 ppm (10^6 g/tonne) to 3.7 ppm.
 Copper: from 13 ppm (10^{-6} g/tonne) to 700 ppm.
 Zinc: from 17 ppm (10^{-6} g/tonne) to 800 ppm.
 Lead: from 2 ppm (10^{-6} g/tonne) to 31 ppm.
 Arsenic: from 4 ppm (10^{-6} g/tonne) to 75 ppm.

The statistical distribution of values for each element are tabulated below:

1) Gold	0-10 ppb	81 samples
	11-20 "	6 "
	21-30 "	1 "
	31-40 "	1 "
	41-50 "	1 "
	51-60 "	1 "
	61-70 "	2 "
		<u>TOTAL 93 samples</u>

2) Silver	0-0.5 ppm	66 samples
	0.6-1.0 "	13 "
	1.1-1.5 "	7 "
	1.6-2.0 "	3 "
	2.1-2.5 "	1 "
	2.6-3.0 "	1 "
	3.1-3.5 "	1 "
	3.6-4.0 "	1 "
		<u>TOTAL 93 samples</u>

3) Copper	0-50	ppm	47	samples
	51-100	"	28	"
	101-150	"	7	"
	151-200	"	5	"
	201-250	"	3	"
	251-300	"	0	"
	301-350	"	0	"
	351-400	"	1	"
	> 400	"	2	"
			<u>TOTAL 93 samples</u>	

4) Zinc	0-50	ppm	2	samples
	51-100	"	22	"
	101-150	"	34	"
	151-200	"	17	"
	201-250	"	9	"
	251-300	"	5	"
	301-350	"	1	"
	351-400	"	1	"
	> 400	"	2	"
			<u>TOTAL 93 samples</u>	

5) Lead	0-5	ppm	13	samples
	6-10	"	42	"
	11-15	"	20	"
	16-20	"	9	"
	21-25	"	6	"
	26-30	"	2	"
	31-35	"	1	"
			<u>TOTAL 93 samples</u>	

6) Arsenic	0-10	ppm	10	samples
	11-20	"	36	"
	21-30	"	30	"
	31-40	"	14	"
	41-50	"	1	"
	51-60	"	0	"
	61-70	"	1	"
	> 70	"	1	"
			<u>TOTAL 93 samples</u>	

DISCUSSION OF RESULTS

The following observations are presented for gold, silver, copper, zinc, lead and arsenic soil geochemical data that are plotted on the accompanying Soil Geochemistry Maps #HCl-1 to #HCl-6 respectively (In Pocket).

- GOLD: - An assay value equal to or greater than 20 ppb is considered significant.
- A northeast trending intermittent zone occurs from L12N/4W (55 ppb) to L9N/8W (70 ppb) to L7N/12W (65 ppb) to L7N/15W (50 ppb).
 - There are five isolated spike-like responses of low significance at L18N/10W (20 ppb), L12N/15W (20 ppb), L4N/4W (35 ppb), L2N/15W (20 ppb), and at L0N/10W (20 ppb).

- SILVER: - An assay value equal to or greater than 1.0 ppm is considered significant.
- There are six small small zones containing at least two significant assays. The zones are centered at L20N/12W (3.3 ppm), L16N/10W (2.4 ppm), L12N/4W (2.8 ppm), L9N/4W (1.6 ppm), L2N/15W (3.7 ppm), and at L0N/4W (1.9 ppm).
 - There are two isolated spike-like responses centered at L20N/6W (1.5 ppm) and at L0N/8W (2.0 ppm).

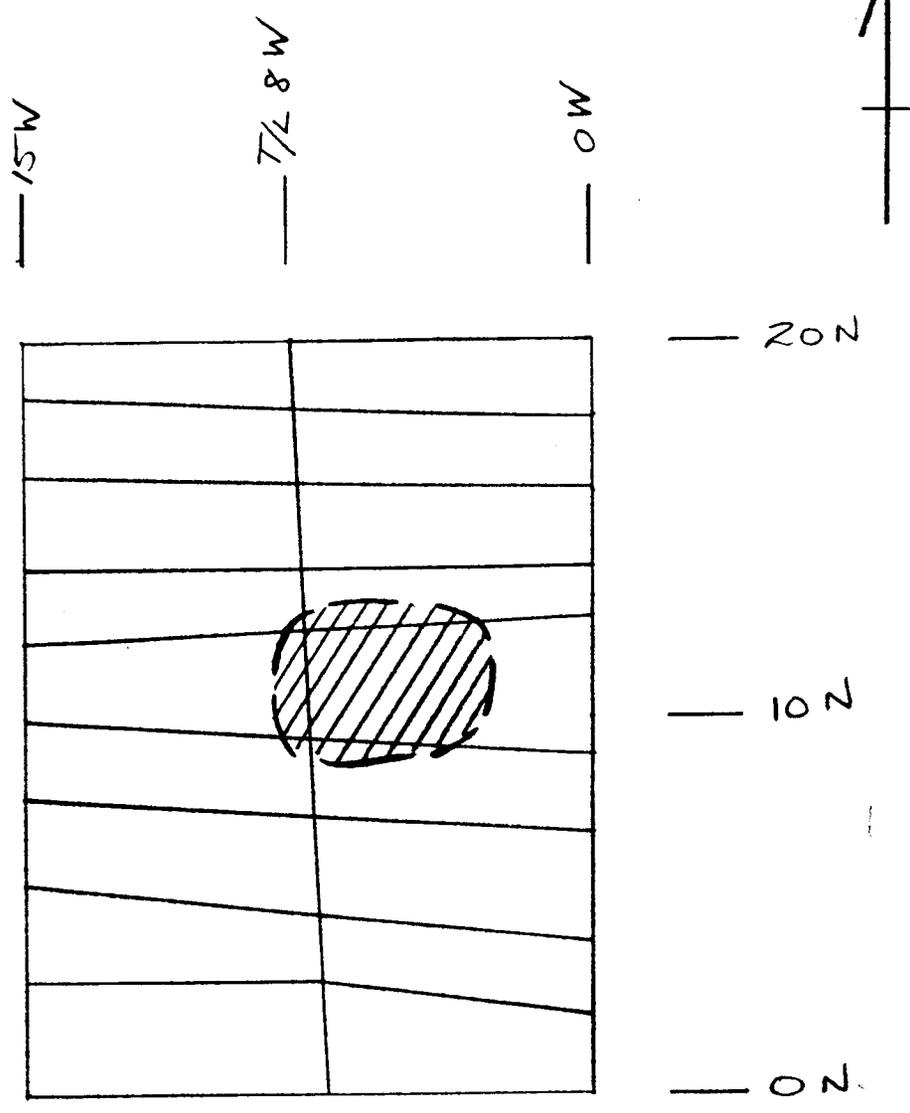
- COPPER:
- An assay value equal to or greater than 200 ppm is considered significant.
 - There is one zone containing three sample locations considered well above background. This zone extends from L12N/8W (700 ppm) to L9N/4W (438 ppm) to L12N/4W (208 ppm).
 - There are three isolated responses centered at L16N/8W (212 ppm), L2N/6W (238 ppm) and at L2N/15W (400 ppm).

- ZINC:
- An assay value equal to or greater than 200 ppm is considered significant.
 - There are four zones containing at least two contiguous sample locations and are as follows:
 - i) L16N/12W (276 ppm) to L14N/14W (318 ppm) to L12N/14W (630 ppm).
 - ii) L12N/4-6W (238-207 ppm) to L9N/8-4W (240-390 ppm).
 - iii) L4N/8-10W (235-258 ppm) to L2N/6W, 10W (235,220 ppm) to L0N 8W (291 ppm).
 - iv) L2N/14W (800 ppm) to L2N/15W (214 ppm).
 - There are four isolated responses centered at:
 - v) L0N/2W (300 ppm)
 - vi) L7N/14W (230 ppm)
 - vii) L16N/8W (235 ppm)
 - viii) L18N/15W (290 ppm)
 - The zones indicated by i),iv),vi),vii), are linked within a 150 ppm zinc contour.
 - The zones indicated by ii),iii),v), are also linked within a 150 ppm zinc contour.

- LEAD: - All sample results are generally well within background. A slight geochemical enhancement of 31 ppm is centered at L9N/4W and reflects the highest lead value within the soil survey.
- ARSENIC: - An assay value equal to or greater than 50 ppm is considered significant.
- There are three isolated spike-like responses located at L9N/8W (75 ppm), L7N/14W (63 ppm), L2N/10W (50 ppm).

The net result is that there is one area on the grid that shows a geochemical enhancement of all elements, 70 ppb gold, 1.6 ppm silver, 700 ppm copper, 390 ppm zinc, 75 ppm arsenic and 31 ppm lead. This multielement anomalous zone lies on the east facing treed slope of the centrally located hill on the property. The soil anomaly lies between the 5000 foot and 4400 foot A.S.L. contour intervals and is defined by the grid coordinates L9N/4-8W by L12N/4-8W, an area of approximately 12,000 square meters. (See Figure 3 for Soil Geochemistry Anomalous Zone).

The survey also shows a strong compatible relationship of silver-zinc-copper anomalous values. The spatial distribution of anomalous gold values with the exception of the multi-element anomalous zone tends to be spike-like and in isolated pockets.



Au-Ag-Cu-Zn-As-(Pb)
Anomalous Soil Geochemical
Zone.

1:20,000

 SELCO INC.		EXPLORATION WESTERN CANADA	
<p>HCI CLAIM SOIL GEOCHEMISTRY ANOMALOUS ZONE</p>			
<small>DRAWN BY</small> DG	<small>DATE</small> FEB/84	<small>N.T.S.</small> 92P/9W	<small>PLAN</small> Figure 3.
<small>TRACED BY</small>	<small>DATE</small>		

LITHOGEOCHEMISTRY

A total of 106 rock samples were collected and geochemically analysed for gold, silver, copper, zinc, lead and arsenic. The range of the assay values for the rocks taken in this survey are as follows:

Gold: less than 5 ppb (10^{-9} g/tonne) to 1500 ppb.
 Silver: 0.1 ppm (10^{-6} g/tonne) to 42.0 ppm.
 Copper: 7 ppm (10^{-6} g/tonne) to 2400 ppm.
 Zinc: 14 ppm (10^{-6} g/tonne) to 10,000 ppm.
 Lead: 1 ppm (10^{-6} g/tonne) to 10,000 ppm.
 Arsenic: 1 ppm (10^{-6} g/tonne) to 450 ppm.

The statistical distribution of values for each element are tabulated below:

1) Gold	0-10	ppb	74	samples
	11-20	"	11	"
	21-30	"	2	"
	31-40	"	1	"
	41-50	"	1	"
	51-100	"	5	"
	101-500	"	7	"
	501-1000	"	2	"
	> 1001	"	2	"
			<u>TOTAL 106 samples</u>	

2) Silver	0-0.5	ppm	83	samples
	0.6-1.0	"	4	"
	1.1-1.5	"	4	"
	1.6-2.0	"	3	"
	2.1-2.5	"	0	"
	2.6-3.0	"	1	"
	3.1-3.5	"	0	"
	3.6-4.0	"	2	"
	4.1-10.0	"	5	"
	> 10.0	"	4	"
			<u>TOTAL 106 samples</u>	

3) Copper	0-50	ppm	23	samples
	51-100	"	55	"
	101-150	"	12	"
	151-200	"	6	"
	201-250	"	3	"
	251-300	"	1	"
	301-350	"	0	"
	351-400	"	0	"
	401-1000	"	4	"
	> 1000	"	2	"
			<u>TOTAL 106 samples</u>	

4) Zinc	0-50	ppm	10	"
	51-100	"	59	"
	101-150	"	20	"
	151-200	"	3	"
	201-250	"	3	"
	251-300	"	0	"
	301-350	"	1	"
	351-400	"	1	"
	401-1000	"	4	"
	> 1000	"	5	"
			<u>TOTAL 106 samples</u>	

5) Lead	0-20	ppm	81	samples
	21-40	"	3	"
	41-60	"	6	"
	61-80	"	2	"
	81-100	"	2	"
	101-500	"	3	"
	501-1000	"	3	"
	> 1000	"	6	"
			<u>TOTAL 106 samples</u>	

6) Arsenic	0-20	ppm	61	samples
	21-40	"	15	"
	41-60	"	9	"
	61-80	"	3	"
	81-100	"	9	"
	101-150	"	6	"
	151-200	"	0	"
	201-500	"	3	"
			<u>TOTAL 106 samples</u>	

DISCUSSION OF RESULTS

The results of this survey are illustrated on the accompanying Lithogeochemical Map #HCl-7 (in pocket). There are three general areas where multielement anomalous conditions exist and are as follows:

i) L12N/7+50W

This area lies within the previously noted multielement soil anomalous zone. The lithogeochemical results indicate a strong gold-silver-copper zone with a subordinate arsenic-zinc-lead relationship. This mineralization occurs in rusty gossaneous buff grey sediments that contain visible disseminated trace chalcopyrite, malachite, pyrite with accompanying silicification.

ii) L7N/10W to L14N/15W

This area has scattered bedrock exposures with several old trenches and small pits. The nature of the mineralization in some of the old test pits consists of chalcopyrite, pyrite, sphalerite and galena in quartz-carbonate veins that cut grey-black and buff grey siltstones. The multielement anomalous geochemical results correspond to samples containing the visible sulphides.

iii) L2N/4W

This area lies at the edge of a cut over area. The bedrock has been exposed as a result of the logging activities in the area.

The geochemical response is weak to moderate and anomalous elements vary for each sample location. Collectively this small area is weakly anomalous in gold (to 90 ppb), copper (to 273 ppm), arsenic (to 81 ppm), and moderately anomalous in zinc (to 500 ppm), lead (to 1500 ppm) and silver (to 9.0 ppm). Only one sample was from vein material carrying trace galena. The remainder of the samples are from a series of sedimentary rocks consisting of calcareous siltstone, limestone, a chert-carbonate unit with finely disseminated pyrite, and a carbonate altered pyroxene porphyritic andesite.

CONCLUSION AND RECOMMENDATION

A multielement soil anomaly consisting of Au - Ag - Cu - Zn + Pb + As was located on the east central part of the HCl claim. A coincidental lithochemical response was also located within and on the upslope side of this zone.

Followup on this zone is recommended and should consist of the following work:

- i) Tighten the soil geochemical survey over the zone to a 50 meter sample interval.
- ii) Ground geophysics over the zone utilizing VLF EM and Mag surveys.
- iii) Two lines of Induced Polarization survey over the zone.

It is felt that the above recommendations should be undertaken and fully assessed prior to further action on the property.



DAVE GAMBLE
MARCH 1984

COST STATEMENTHC 1, RECORD # 4363 (12 units)

1. Grid Preparation & Soil Sampling
 June 6th - June 10th, 1983 inclusive,
 21 line kms. by Company personnel
 (G.Evans, M.Nighswander, D.Gamble)
 5 days @ \$500.00/day. \$ 2500.00

2. Lithogeochemical Survey
 June 11th - June 16th, 1983 inclusive,
 by Company personnel
 (G.Evans, M.Nighswander, D.Gamble)
 6 days @ \$500.00/day. 3000.00

3. Food
 33 man days @ \$23.00/man day. 759.00

4. Field Supplies
 Sample bags, flagging, topofil,
 shipping charges. 171.00

5. Transportation
 - Vehicle Operation
 11 days @ \$25.00/day. 275.00
 - Lease charges @ \$375.00/month
 2 weeks @ $\frac{1}{2}$ of \$375.00. 187.50

6. Geochemical Analysis
 - Chemex Labs Ltd., as per
 Invoice # I8312035, June 29, 1983.
 93 soil samples @ \$13.23/sample. 1230.39
 - Chemex Labs Ltd., as per
 Invoice # I8312222, July 6, 1983.
 106 of 114 rock samples
 @ \$14.92/sample. 1581.52

7. Drafting & Reproduction
7 man days @ \$200.00/man day. \$ 1400.00
8. Report Writing, Typing, Supervision
5 man days @ \$200.00/man day. 1000.00

\$12,104.41

CERTIFICATE OF AUTHOR

I, Dave Gamble, of 7182 Blackwell Road, Kamloops, British Columbia hereby certify that:

1. I am a geologist residing at the above address.
2. I am a graduate of the University of Ottawa with an Honours B.Sc. degree in Geology (1973) and have completed two years graduate studies leading to a M.Sc. at Laurentian University.
3. I have practised my profession for more than 7 years.
4. I supervised the survey work on the HCl claim and interpreted the results of the survey described herein.
5. I hold no interest, direct or indirect, in the HCl Claim which is the subject of this report.

Respectfully submitted,



A.P.D. Gamble,
Project Geologist.

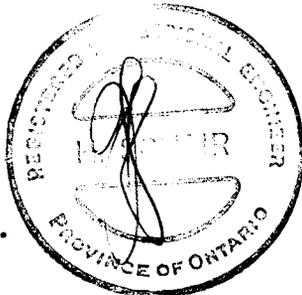
March 1984
Kamloops, B.C.

CERTIFICATE OF AUTHOR

I, Hugh Squair of 4287 Staulo Crescent, Vancouver, British Columbia, hereby certify that:

1. I am a geologist residing at the above address.
2. I am a graduate of the University of Saskatchewan and London with B.A. 1959 and Phd. 1965, degrees in Geology and Mining Geology and have practiced my profession for eighteen years.
3. I am registered as a member of the Association of Professional Engineers of the Province of Ontario.
4. I directed the geochemical work carried out on the HCl Claim Project by Mr. A.P.D. Gamble and attest that the values presented and their spatial relationships to each other are correct within reasonable limits of error.
5. I hold no interest direct or indirect in the HCl Claim Project which is the subject of this report.

Vancouver, B.C.
March 1984



Respectfully submitted,

Hugh Squair
H. Squair

APPENDIX A
Certificates of Analyses



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

TELEPHONE: (604) 984-0221

TELEX: 043-52597

CERTIFICATE OF ANALYSIS

TO : SELCO MINING CORPORATION LTD.,

STE. 402-535 THURLOW STREET
VANCOUVER, B.C.
V6E 3L2

CERT. # : A8312035-001-A

INVOICE # : 18312035

DATE : 29-JUN-83

P.C. # : NONE

10235

CC: DAVID GAMBLE

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Ag ppm	AS ppm	Au	FA+AA ppb
HCl L0+00N 0+00W	201	38	8	112	0.5	11		<5
HCl L0+00N 2+00W	201	175	29	300	1.3	30		5
HCl L0+00N 4+00W	201	90	11	116	1.9	22		5
HCl L0+00N 6+00W	201	19	10	80	0.6	11		5
HCl L0+00N 8+00W	201	111	22	291	2.0	27		5
HCl L0+00N 10+00W	201	87	18	190	0.5	38		20
HCl L0+00N 12+00W	201	71	11	104	0.4	20		<5
HCl L0+00N 14+00W	201	29	10	104	0.2	20		5
HCl L2+00N BLOW	201	28	15	85	0.2	9		<5
HCl L2+00N 2+00W	201	160	15	105	1.4	12		5
HCl L2+00N 4+00W	201	69	20	152	0.5	29		10
HCl L2+00N 6+00W	201	238	16	235	0.8	23		10
HCl L2+00N 8+00W	201	59	24	160	0.2	17		<5
HCl L2+00N 10+00W	201	55	16	220	0.6	50		<5
HCl L2+00N 12+00W	201	81	17	136	0.2	30		<5
HCl L2+00N 14+00W	201	120	20	800	1.0	29		5
HCl L4+00N BLOW	201	24	7	124	0.1	12		<5
HCl L4+00N 2+00W	201	70	8	100	0.1	24		<5
HCl L4+00N 4+00W	201	87	11	140	0.5	33		35
HCl L4+00N 6+00W	201	108	14	145	0.4	20		<5
HCl L4+00N 8+00W	201	47	23	235	0.4	19		5
HCl L4+00N 10+00W	201	36	17	258	0.2	20		<5
HCl L4+00N 12+00W	201	19	14	139	0.2	9		15
HCl L4+00N 14+00W	201	43	13	97	0.1	23		<5
HCl L6+00N BLOW	201	61	8	100	0.1	25		<5
HCl L8+00N BLOW	201	70	8	130	0.2	24		<5
HCl L8+00N 2+00W	201	104	7	97	0.5	39		10
HCl L8+00N 4+00W	201	59	12	150	0.3	27		<5
HCl L8+00N 6+00W	201	24	9	94	0.2	11		<5
HCl L8+00N 8+00W	201	27	7	143	0.2	10		<5
HCl L8+00N 10+00W	201	86	28	190	0.2	29		5
HCl L8+00N 12+00W	201	22	13	122	0.3	23		65
HCl L8+00N 14+00W	201	48	21	230	0.7	63		15
HCl L10N BLOW	201	22	2	17	0.1	4		<5
HCl L10N 2+00W	201	71	6	113	0.2	23		<5
HCl L10N 4+00W	201	438	31	390	1.6	22		5
HCl L10N 6+00W	201	104	16	168	1.5	35		10
HCl L10N 8+00W	201	78	15	240	0.3	75		70
HCl L10N 10+00W	201	20	9	125	0.3	15		<5
HCl L10N 12+00W	201	44	12	111	0.8	35		10

Certified by *Hart Bichler*





CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : SELCO MINING CORPORATION LTD.,

STE. 402-535 THURLOW STREET
VANCOUVER, B.C.
V6E 3L2

CERT. # : A8312035-002-A
INVOICE # : I8312035
DATE : 29-JUN-83
P.O. # : NONE
10235

CC: DAVID GAMBLE

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Ag ppm	AS ppm	Au	FA+AA ppb
FC1 L10N 14+00W	201	16	11	30	0.1	12		<5
FC1 L12+CON BLOW	201	28	6	131	0.1	17		<5
FC1 L12+CON2+00W	201	53	7	127	0.1	24		<5
FC1 L12+CON4+00W	201	208	13	238	0.9	22		55
FC1 L12+CON6+00W	201	74	9	207	0.4	17		<5
FC1 L12+CON8+00W	201	700	14	177	0.3	24		5
FC1 L12+CON10+00W	201	27	7	93	0.1	9		<5
FC1 L12+CON12+00W	201	70	7	192	0.3	35		<5
FC1 L12+CON14+00W	201	170	12	630	2.8	22		<5
FC1 L14N BLOW	201	48	4	153	0.2	16		5
FC1 L14N 2+00W	201	15	3	90	0.3	6		<5
FC1 L14N 4+00W	201	31	4	93	0.4	16		<5
FC1 L14N 6+00W	201	39	6	122	0.1	19		<5
FC1 L14N 8+00W	201	49	5	143	0.5	17		<5
FC1 L14N 10+00W	201	57	7	130	0.1	23		<5
FC1 L14N 12+00W	201	44	5	81	0.1	14		<5
FC1 L14N 14+00W	201	85	10	318	1.5	12		5
FC1 T/L15WL0+00N	201	21	4	168	0.4	15		<5
FC1 T/L15WL2+00N	201	400	8	214	3.7	12		25
FC1 T/L15WL4+00N	201	78	8	128	0.1	16		5
FC1 T/L15WL6+00N	201	19	14	154	0.1	14		<5
FC1 T/L15WL8+00N	201	38	21	114	0.9	25		50
FC1 T/L15WL10+00N	201	77	9	167	0.1	35		5
FC1 T/L15WL12+00N	201	16	10	86	0.1	14		20
FC1 T/L15WL14+00N	201	22	20	121	0.4	39		10
FC1 T/L15WL16+00N	201	33	9	153	0.8	29		<5
FC1 T/L15WL18+00N	201	21	10	119	0.2	17		5
FC1 T/L15WL20+00N	201	130	11	290	1.3	23		5
FC1 L16+CON BLOW	201	34	5	153	0.2	30		<5
FC1 L16+CON2+00W	201	47	7	114	0.1	24		<5
FC1 L16+CON4+00W	201	40	6	54	0.1	16		<5
FC1 L16+CON6+00W	201	91	7	160	0.4	33		<5
FC1 L16+CON8+00W	201	212	11	235	1.2	36		<5
FC1 L16+CON10+00W	201	194	10	150	2.4	32		10
FC1 L16+CON12+00W	201	115	21	276	0.3	36		5
FC1 L16+CON14+00W	201	37	6	150	0.1	23		10
FC1 L17+85N BLOW	201	56	3	119	0.1	22		<5
FC1 L17+85N2+00W	201	65	6	126	0.6	15		<5
FC1 L17+85N4+00W	201	13	5	55	0.3	6		<5
FC1 L17+85N6+00W	201	21	6	94	0.1	22		<5

Hart Buchler

Certified by



MEMBER
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ASSOCIATION



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : SELCO MINING CORPORATION LTD..

STE. 402-535 THURLOW STREET
VANCOUVER, B.C.
V6E 3L2

CERT. # : A8312035-003-A
INVOICE # : 18312035
DATE : 29-JUN-83
P.C. # : NONE
10235

CC: DAVID GAMBLE

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Ag ppm	AS ppm	Au	FA+AA ppb
HC1 L17+85N8+00W	201	82	2	36	0.6	4		<5
HC1 L17+85N10+00W	201	22	3	90	0.2	9		20
HC1 L17+85N12+00W	201	29	7	90	0.3	15		10
HC1 L17+85N14+00W	201	40	10	136	0.5	33		5
HC1 L20N 0+00W	201	22	5	120	0.1	20		5
HC1 L20N 2+COW	201	35	6	99	0.2	23		<5
HC1 L20N 4+00W	201	16	10	95	0.3	10		5
HC1 L20N 6+00W	201	155	8	172	1.5	39		5
HC1 L20N 8+00W	201	28	6	114	0.2	11		<5
HC1 L20N 10+COW	201	36	15	183	0.2	14		15
HC1 L20N 12+COW	201	76	10	90	3.3	16		<5
HC1 L20N 14+00W	201	43	6	161	1.0	11		<5
HC1 L20N 15+00W	201	25	6	86	0.2	15		<5

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ASSOCIATION



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

TELEPHONE: (604) 984-0221

TELEX: 043-52597

CERTIFICATE OF ANALYSIS

TO : SELCO MINING CORPORATION LTD.,

STE. 402-535 THURLCOW STREET R.R. #2
VANCOUVER, B.C. 7162 BLACKWELL RD.
V6E 3L2 KAMLOOPS, B.C. V2C 2J3

CERT. # : A8312222-C01-

INVOICE # : 18312222

DATE : 11-JUL-83

P.C. # : NCNE
10235

✓CC: DAVID GAMBLE

Sample description	Prep code	Cu ppr	Pb ppm	Zn ppr	Ag ppr	AS ppr	Au	FA+AA ppb
22464	205	70	1	108	0.1	22		<5
22465	205	90	1	108	0.1	12		5
22466	205	82	1	92	0.1	11		<5
22467	205	75	1	118	0.1	35		5
22468	205	95	1	38	0.1	3		<5
22469	205	83	1	93	0.1	4		<5
22470	205	87	4	103	0.1	22		5
22471	205	188	1	83	0.1	6		5
22472	205	193	1	78	0.1	23		<5
22473	205	62	1	57	0.1	5		<5
22474	205	119	1	89	0.1	7		<5
22475	205	189	10	110	0.8	73		10
22476	205	118	90	500	0.2	45		20
22477	205	64	44	65	0.3	36		5
22478	205	75	158	110	1.3	24		90
22479	205	55	45	50	0.2	7		10
22480	205	68	62	192	0.3	81		15
22481	205	273	980	90	9.0	12		<5
22482	205	22	1500	310	1.7	12		25
22483	205	36	38	75	0.1	17		5
22484	205	86	40	59	0.1	29		40
22485	205	56	10	88	0.1	12		10
22486	205	100	6	102	0.1	7		20
22487	205	62	7	56	0.1	7		10
22488	205	59	10	63	0.1	17		20
22489	205	91	58	65	0.6	19		15
22490	205	85	9	67	0.1	4		10
22491	205	72	1180	570	1.9	36		135
22492	205	73	14	80	0.1	4		5
22493	205	7	9	52	0.1	3		15
22494	205	56	15	75	0.1	6		10
22495	205	74	2	83	0.1	6		5
22496	205	50	3	76	0.1	16		<5
22497	205	39	15	88	0.1	7		<5
22498	205	65	175	66	1.9	150		55
22499	205	61	1	86	0.1	16		<5
22500	205	87	13	62	0.2	90		55
22701	205	31	2	85	0.1	14		5

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CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : SELCO MINING CORPORATION LTD.,

STE. 402-535 THURLOW STREET
VANCOUVER, B.C.
V6E 3L2

CERT. # : A8312222-C02-
INVOICE # : I8312222
DATE : 11-JUL-83
P.C. # : NONE
10235

CC: DAVID GAMBLE

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Ag ppm	AS ppm	Au	FA+AA ppb
22702	205	28	11	168	0.4	41		105
22703	205	80	14	163	0.1	450		10
22704	205	85	8	220	0.1	97		5
22705	205	133	100	2900	4.6	110		190
22706	205	205	970	3250	11.0	99		265
22707	205	78	45	107	0.1	6		5
22708	205	21	10	62	0.1	22		<5
22709	205	82	6	140	0.1	7		<5
22710	205	76	2	118	0.1	83		<5
22711	205	86	2	83	0.1	7		<5
22712	205	132	1	92	0.1	16		10
22713	205	162	1	81	0.1	6		<5
22714	205	61	1	65	0.1	5		<5
22715	205	100	2	110	0.1	3		5
22716	205	53	1	81	0.1	7		<5
22717	205	73	1	76	0.1	41		<5
22718	205	62	29	130	2.6	59		45
22719	205	33	4	31	1.1	12		5
22720	205	103	1	80	0.1	4		<5
22721	205	122	1	76	0.1	3		<5
22722	205	138	1	88	0.1	4		5
22723	205	110	1	83	0.1	3		5
22724	205	243	2	31	3.8	24		1500
22725	205	1830	1	46	0.4	3		125
22726	205	660	11	64	5.3	130		350
22727	205	1000	7	100	6.0	65		190
22728	205	2400	570	505	7.1	110		1150
22729	205	89	5	110	0.1	4		20
22730	205	233	3	67	0.5	6		25
22731	205	173	2	26	0.1	4		10
22732	205	153	4	25	0.1	6		10
22733	205	124	3	97	0.4	85		5
22734	205	10	1	64	0.4	7		30
22735	205	42	1	40	0.1	48		5
22736	205	24	10	106	0.7	215		15
22737	205	48	1	53	0.1	120		5
22738	205	14	1	85	0.1	4		5
22739	205	32	1	99	0.1	20		60
22740	205	13	68	68	1.5	33		20
22741	205	22	16	75	0.1	4		10

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212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

TELEPHONE: (604) 984-0221

TELEX: 043-52597

CERTIFICATE OF ANALYSIS

TO : SELCO MINING CORPORATION LTD.,

STE. 402-535 THURLOW STREET
VANCOUVER, B.C.
V6E 3L2

CERT. # : A8312222-C03-
INVOICE # : I8312222
DATE : 11-JUL-83
P.C. # : NONE
10235

CC: DAVID GAMBLE

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Ag ppm	AS ppm	Au	FA+AA ppb
22742	205	145	5	55	0.1	6		15
22743	205	78	1	55	0.1	3		10
22744	205	83	3	108	0.1	10		10
22745	205	16	4	56	0.1	6		<5
22746	205	51	12	215	0.1	6		5
22747	205	70	18	205	0.1	3		5
22748	205	95	1	123	0.1	53		<5
22749	205	76	2	90	0.2	10		5
22750	205	7	1	14	0.1	3		5
22751	205	28	1	75	0.1	3		<5
22752	205	112	1	110	0.1	5		5
22753	205	80	1	88	0.1	27		5
22754	205	68	1	90	0.2	99		5
22755	205	55	1	87	0.3	73		5
22756	205	53	1	69	0.3	45		10
22757	205	570	>10000	>10000	41.0	107		525
22758	205	62	140	360	1.4	88		10
22759	205	130	57	120	0.8	23		20
22760	205	95	8	115	0.3	35		5
22761	205	85	15	100	0.3	43		<5
22762	205	95	60	110	0.2	5		5
22763	205	30	1	83	0.1	1		<5
22764	205	72	2	70	0.3	27		5
22765	205	73	4	83	0.1	5		<5
22766	205	65	1	75	0.1	3		<5
22767	205	435	1350	980	20.0	430		550
22768	205	22	2330	2300	3.7	100		5
22769	205	42	>10000	>10000	42.0	53		95



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CHEMEX LABS LTD.

JUL 11 1983

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C
CANADA V7J 2C1

TELEPHONE (604) 984-0221

TELEX 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

*** INVOICE ***

Client: SELCO MINING CORPORATION LTD.,

Invoice # : 19312222

STE. 402-535 THURLCOW STREET
VANCOUVER, B.C.
V6E 3L2

Date : 11-JUL-83
P.C. # : NONE
Project 10235

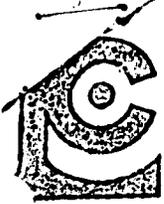
Invoice for analytical work reported on certificate(s) A8312222-001 to -003

Quantity	Analyse code	Description	Unit	Price	Amount
1	002	- Cu	ppm		
	006	- Ag	ppm		
	100	- Au FA+AA	ppb		
	020	- Hg	ppb	12.55	12.55 ✓
1	006	- Ag	ppm		
	100	- Au FA+AA	ppb	8.15	8.15 ✓
108	002	- Cu	ppm		
	004	- Pb	ppm		
	005	- Zn	ppm		
	006	- Ag	ppm		
	013	- AS	ppm		
	100	- Au FA+AA	ppb	14.10	1522.80 ✓
1	006	- Ag	ppm		
	013	- AS	ppm		
	100	- Au FA+AA	ppb		
	020	- Hg	ppb	14.90	14.90 ✓
2	002	- Cu	ppm		
	005	- Zn	ppm		
	006	- Ag	ppm		
	013	- AS	ppm		
	100	- Au FA+AA	ppb		
	020	- Hg	ppb	16.70	33.40 ✓

Continued



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CANADIAN TESTING
ASSOCIATION



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1

TELEPHONE: (604) 984-0221
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

*** INVOICE ***

TO : SELCO MINING CORPORATION LTD., HCL

Invoice # : 18312035

STE. 402-535 THURLOW STREET
VANCOUVER, B.C.
V6E 3L2

JUN 30 1983

Date : 29-JUN-83
P.C. # : NONE
Project 10235

Invoice for analytical work reported on certificate(s) A8312035-001 to -003

quantity	code	Analysed for description	unit price	amount
93	002	- Cu	ppm	
	004	- Pb	ppm	
	005	- Zn	ppm	
	006	- Ag	ppm	
	013	- AS	ppm	
	100	- Au FA+AA	ppb	
			14.10	1311.30 ✓

Sample preparation and other charges :

93	201	- soil + sediment -80 mesh	0.60	55.80 ✓
----	-----	----------------------------	------	---------

TOTAL \$ 1367.10 ✓
Discount (10 %) \$ 136.71

Please pay this amount ----> \$ 1230.39 ✓
=====

TERMS -- NET 30 DAYS

.5 % per month (18 % per annum) charged on overdue accounts

DATE GOODS RECEIVED		JUL - 4 1983	
PRICES O.K.			
EXTENSION CHECKED			
O.K. FOR PAYMENT <i>[Signature]</i>			
JOB NUMBER		CODE	
221	2710	10235	= 50.22
221	2720	10235	= 1180.17



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE: (604) 984-0221
 TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

*** INVOICE ***

To: SELCO MINING CORPORATION LTD.,

Invoice # : 18312222

STE. 402-535 THURLLOW STREET
 VANCOUVER, B.C.
 V6E 3L2

JUL 11 1983

Date : 11-JUL-83
 P.C. # : NONE
 Project 10235

page 2

quantity	code	Analysed for description	unit price	amount
				BALANCE FORWARD \$ 1591.80
1	002	- Cu ppm		
	005	- Zn ppm		
	006	- Ag ppm		
	013	- AS ppm		
	100	- Au FA+AA ppb	13.20	13.20 ✓

Sample preparation and other charges :

114 205 - Rock geochem - RING 2.50 285.00 ✓

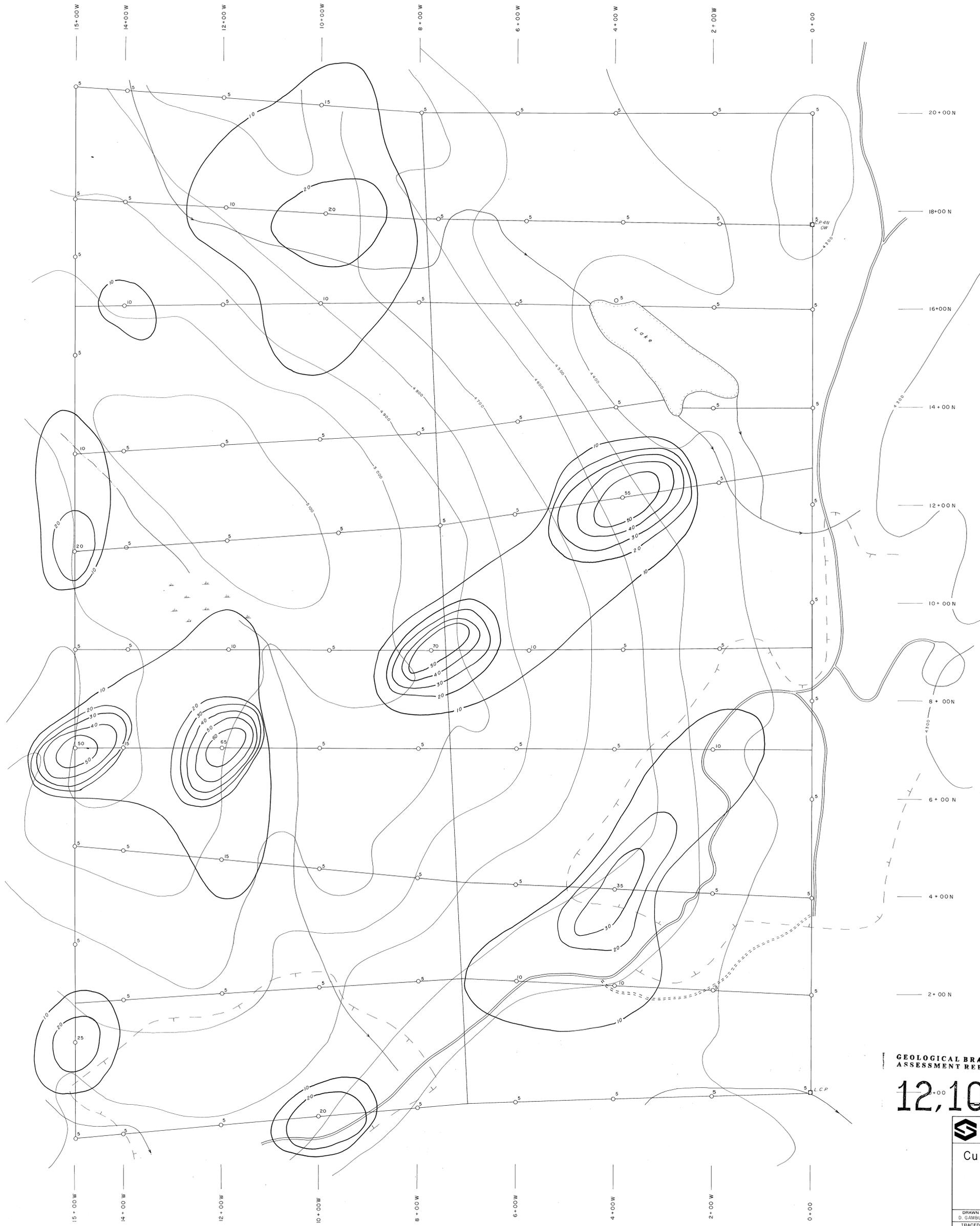
TOTAL \$ 1890.00 ✓
 Discount (10 %) \$ 189.00 ✓

Please pay this amount ----> \$ 1701.00 ✓
 =====

TERMS -- NET 30 DAYS

.5 % per month (18 % per annum) charged on overdue accounts

DATE GOODS RECEIVED		JUL 11 1983	
PRICES O.K.			
EXTENSION CHECKED			
P.K. FOR PAYMENT			
JOB NUMBER	CODE		
220	2710	10235	= 256.50
220	2720	10235	= 1444.50

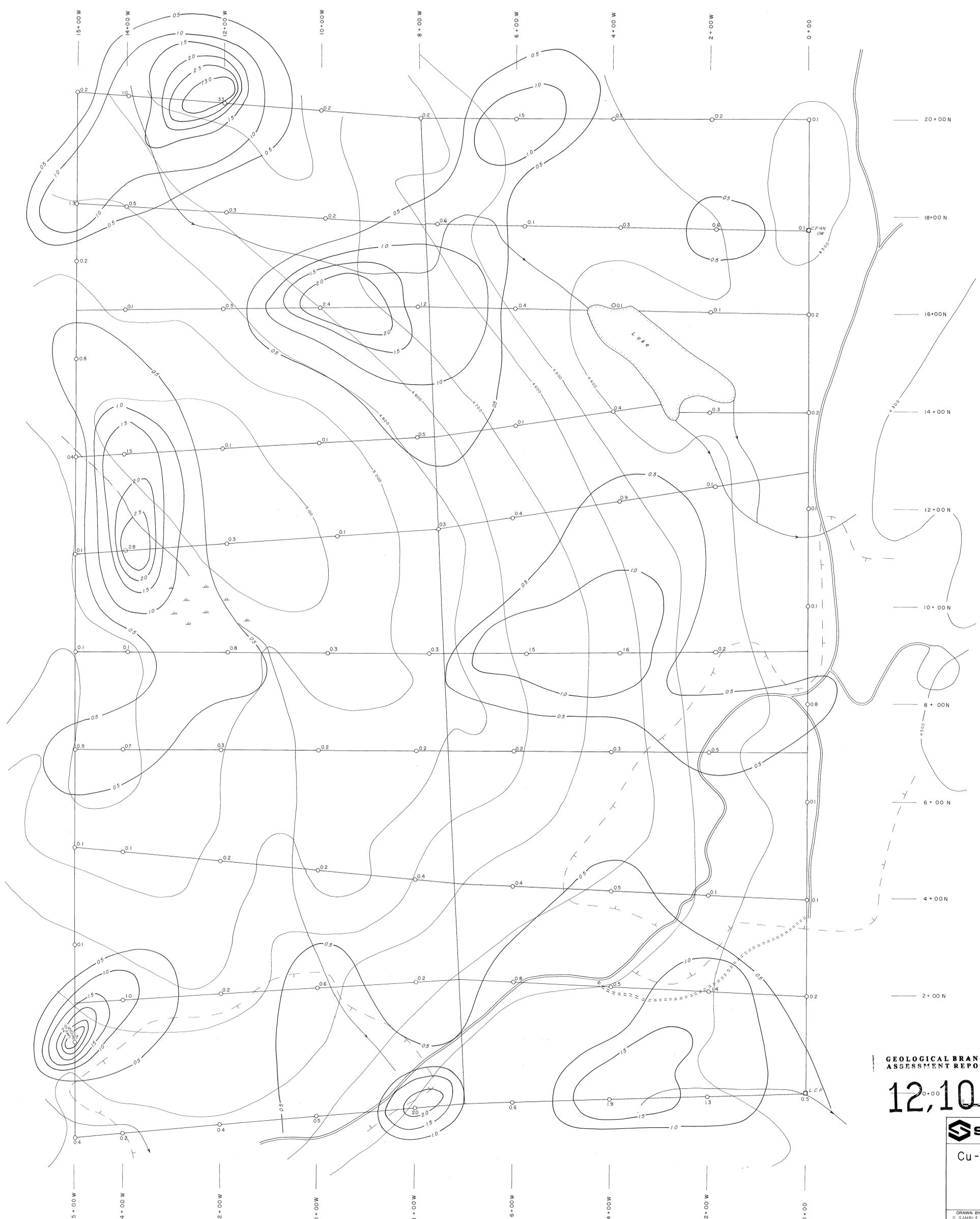


GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,101

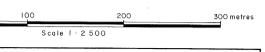
Scale 1: 2,500

		EXPLORATION WESTERN CANADA	
Cu-Au PORPHYRY PROJECT HC-1 CLAIM			
SOIL GEOCHEMISTRY GOLD PPB			
DRAWN BY D. GAMBLE	DATE JULY 1983	N.T.S.	PLAN
TRACED BY J.S.	DATE AUG. 1983	92 P/9 W	HC1 - 1

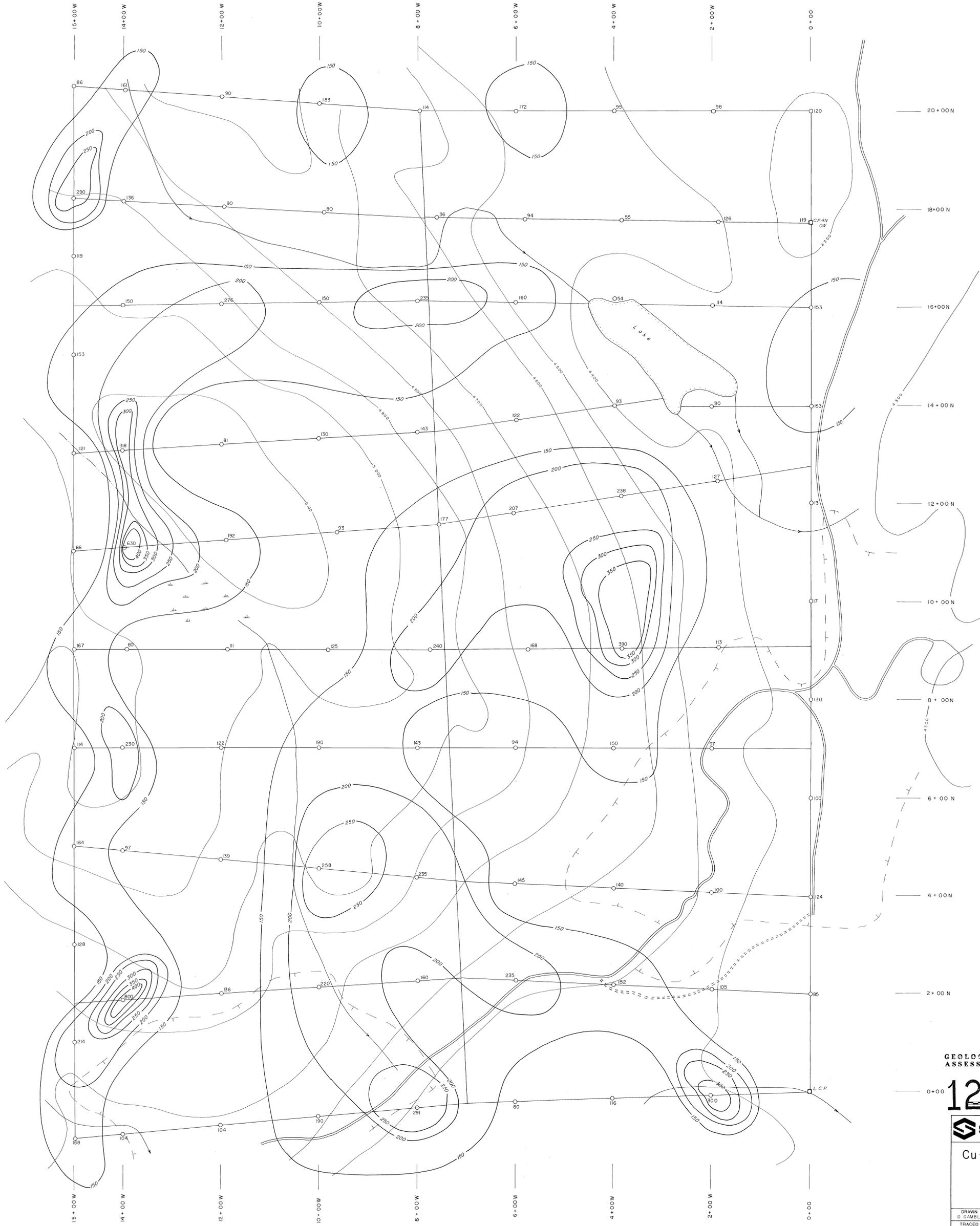


GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,101



		EXPLORATION WESTERN CANADA	
Cu-Au PORPHYRY PROJECT HC-1 CLAIM SOIL GEOCHEMISTRY SILVER-PPM			
DRAWN BY D. GAMBLE	DATE JULY 1983	N.T.S.	PLAN
TRACED BY J.S., M.R.	DATE AUG. 1983	92 P/9 W	HCI - 2



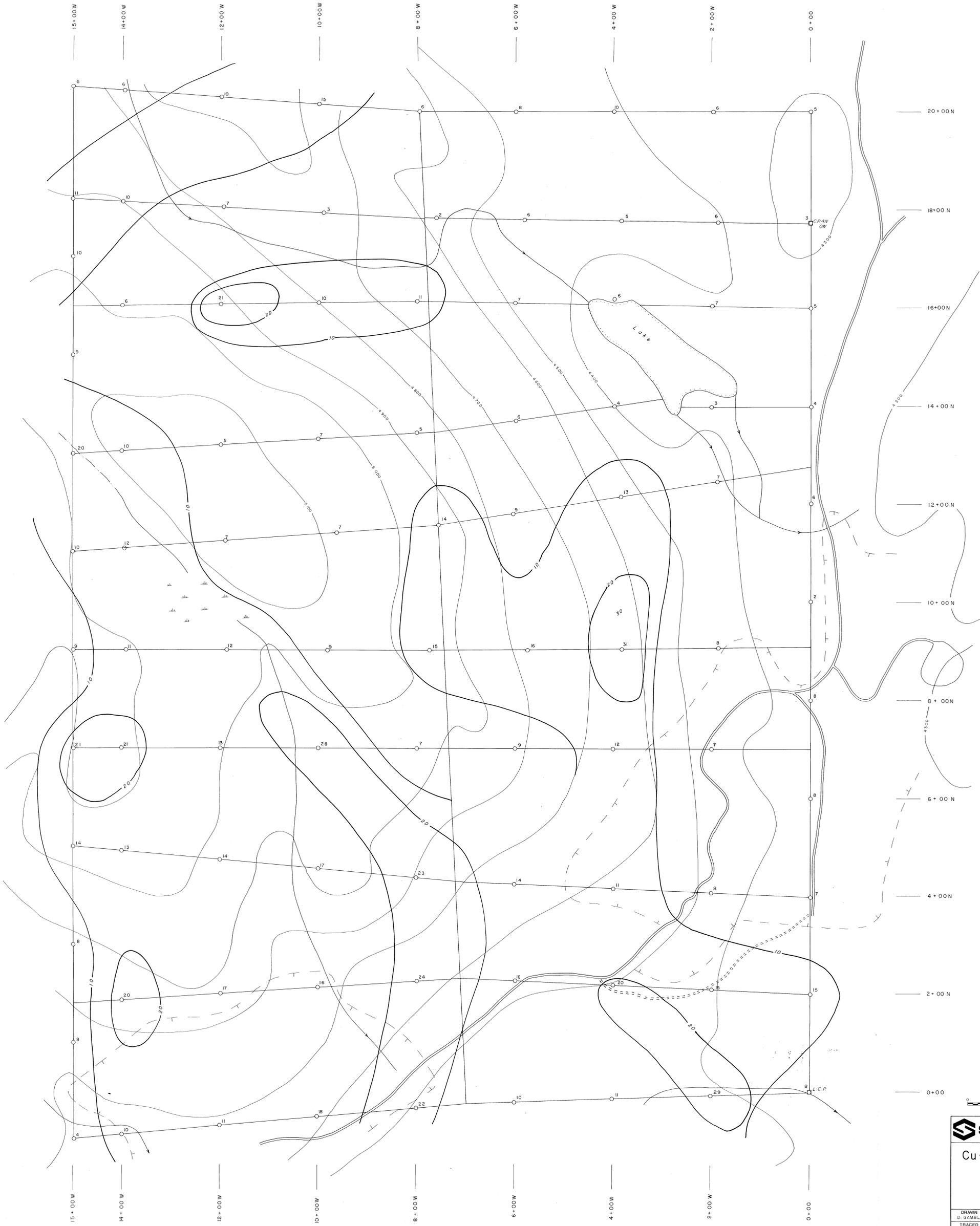
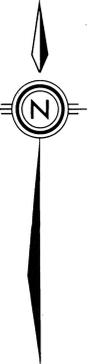
GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,101

SELCO INC. EXPLORATION
WESTERN CANADA

Cu-Au PORPHYRY PROJECT
HC-1 CLAIM
SOIL GEOCHEMISTRY
ZINC-PPM

DRAWN BY D. GAMBLE	DATE JULY 1983	N.T.S.	PLAN
TRACED BY J.S.W.R.	DATE AUG 1983	92 P/9 W	HCL - 4

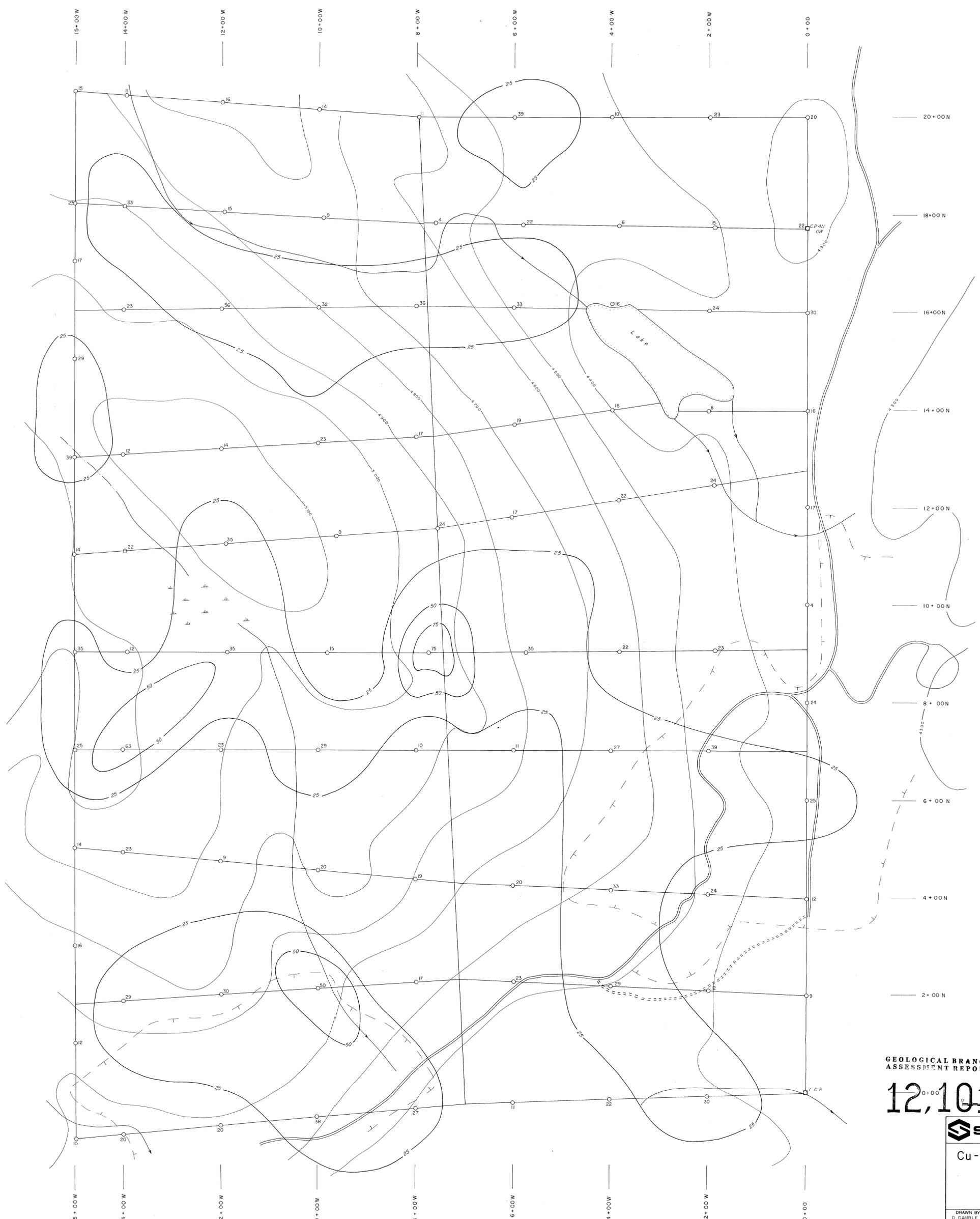


GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,101

Scale 1:2500 300metres

		EXPLORATION WESTERN CANADA	
Cu-Au PORPHYRY PROJECT HC-1 CLAIM			
SOIL GEOCHEMISTRY LEAD PPM			
DRAWN BY D. GAMBLE	DATE JULY 1983	N.T.S.	PLAN
TRACED BY J.S.	DATE AUG. 1983	92 P/9 W	HC1 - 5

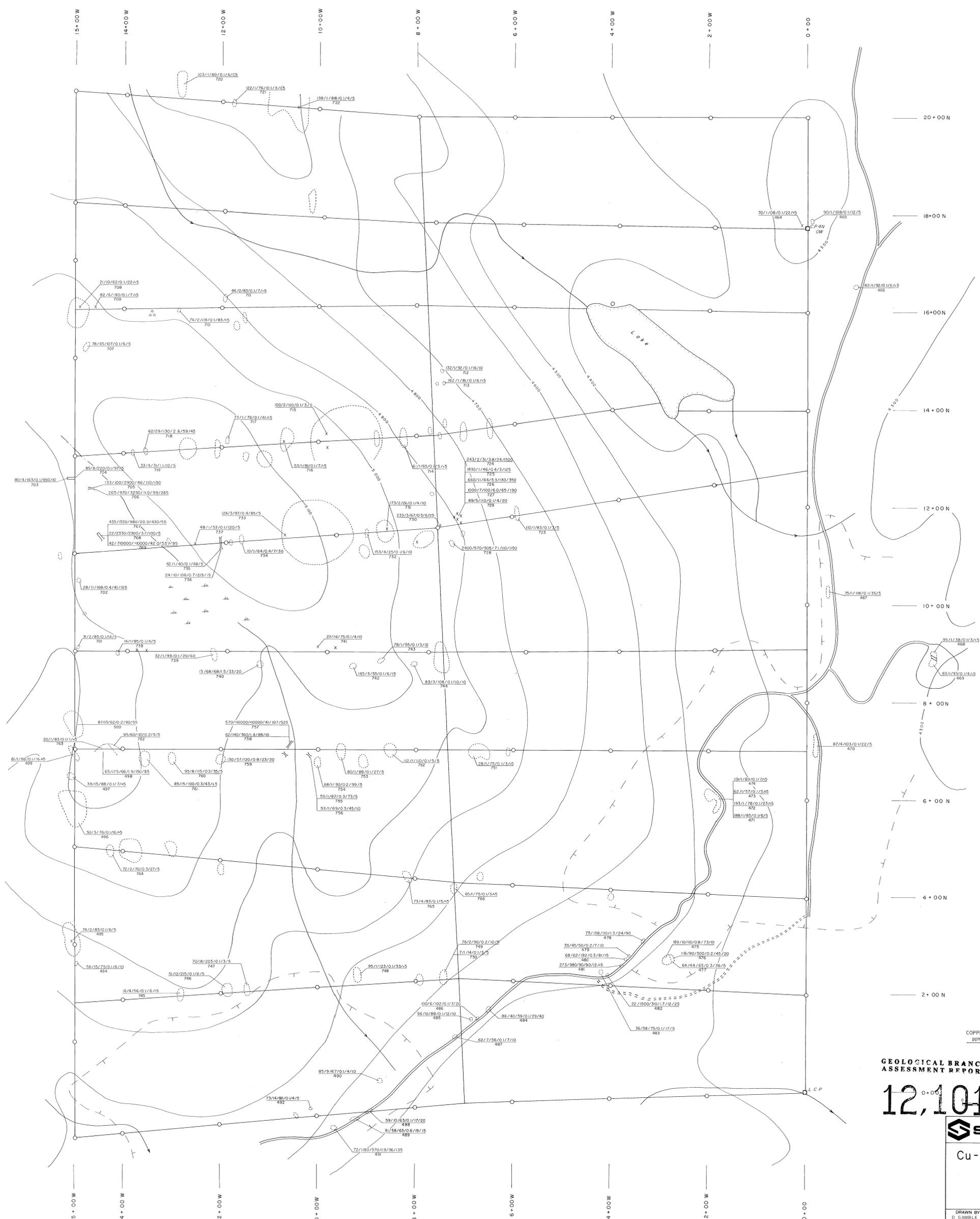


20+00N
18+00N
16+00N
14+00N
12+00N
10+00N
8+00N
6+00N
4+00N
2+00N

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,101

		EXPLORATION WESTERN CANADA	
Cu-Au PORPHYRY PROJECT HC-1 CLAIM SOIL GEOCHEMISTRY ARSENIC-PPM			
DRAWN BY D. GAMBLE	DATE JULY 1983	N.T.S.	PLAN
TRACED BY J. S. M.R.	DATE AUG. 1983	92 P/9 W	HC1 - 6

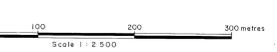


LEGEND

COPPER / LEAD / ZINC / SILVER / ARSENIC / GOLD
ppm / ppm / ppm / ppm / ppm / ppm / ppb
SAMPLE #22XXX

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,101



SELCO INC. EXPLORATION
WESTERN CANADA

Cu-Au PORPHYRY PROJECT
HC-1 CLAIM
LITHOGEOCHEMISTRY

DRAWN BY D. GAMBLE	DATE JULY 1983	N.T.S.	PLAN
TRACED BY J.S.M.R.	DATE AUG. 1983	92 P/9 W	HC1 - 7