

LOG NO: 1104	RD.
ACTION:	NTS: 92I/14 92P/3
FILE NO: 87-701-16525	

8/88

GEOLOGICAL AND GEOCHEMICAL
ASSESSMENT REPORT ON THE

PLAT I-IV CLAIM GROUP

Kamloops Mining Division, B.C.

Long. 121° 22' 21" 24"

Lat. ~~51° 00'~~ 50° 58' 48"

92P/3W, 92I/14W

SUB-RECORDER RECEIVED
OCT 30 1987
M.R. # \$
VANCOUVER, B.C.

FILMED

Owner:

MR. CLIVE ASHWORTH

Operator:

ASHWORTH EXPLORATIONS LIMITED

Written by:

ELIZABETH A. SCROGGINS, Geologist
FAYZ YACOUB, Geologist

ASHWORTH EXPLORATIONS LIMITED

October 20, 1987

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,525

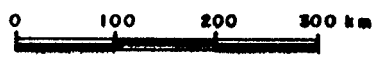
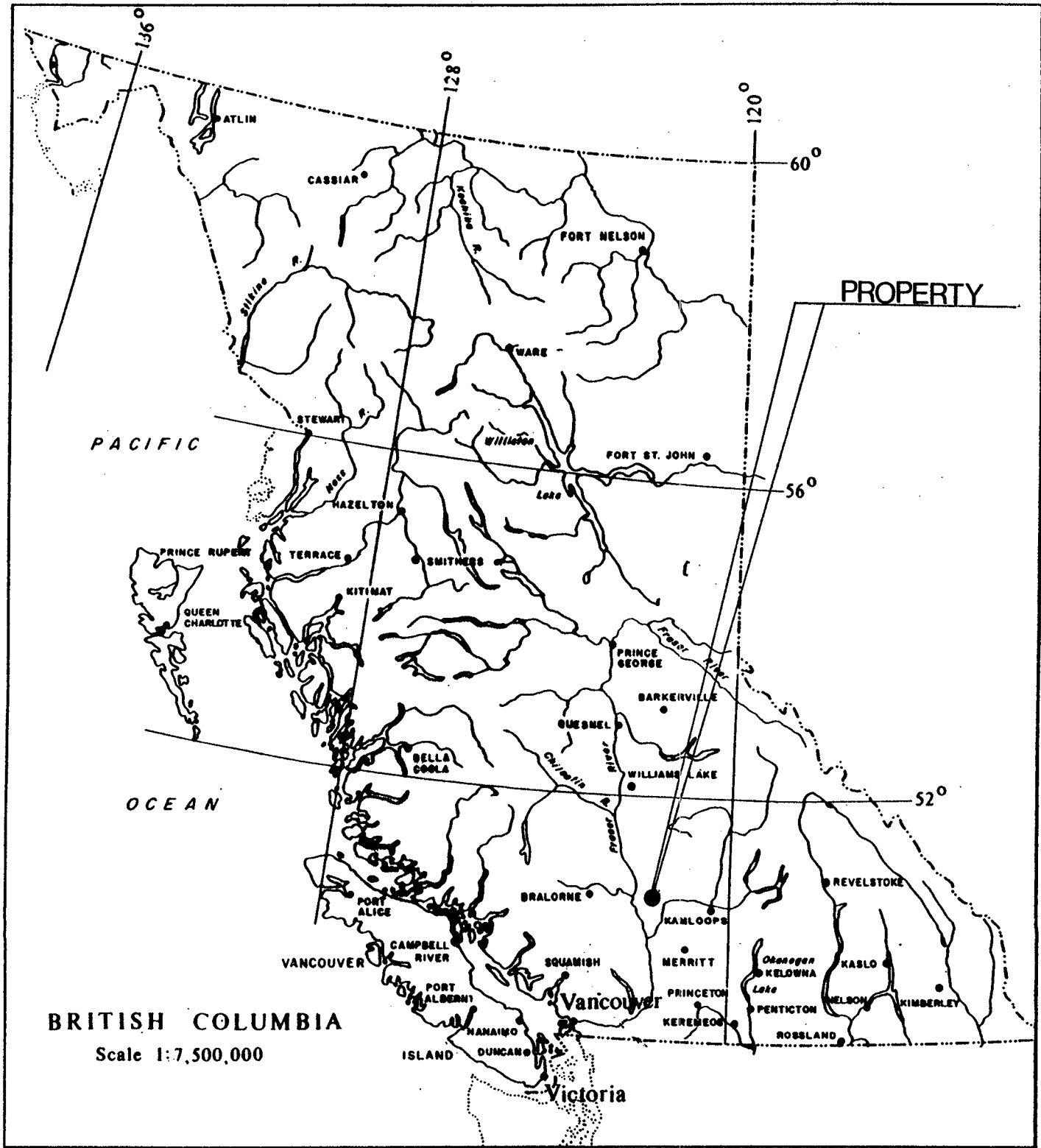
SUMMARY

The Plat Claim Group is situated 7 kilometres northeast of the confluence of Scottie Creek and the Bonaparte River. Several old chromite, platinum and palladium showings have led explorationists to this area.

The Plat property is underlain by rocks of the Cache Creek Complex, the favourable host for platinum-bearing ultramafic assemblages. No ultramafic bodies were located on the property, however large float boulders were located.

Geochemical results provided some correlation between the typically enriched elements associated with ultramafic rocks (Cr, Co, Ni, Mg). High sporadic gold values (up to 290 ppb Au) require follow-up work.

Detailed mapping and follow up geochemical work is recommended as the next phase of exploration.



GENERAL LOCATION MAP	
PLAT I, II, III, AND IV CLAIMS	
KAMLOOPS MINING DIVISION, B.C.	
Scale: 1:7 500 000	By: F. YACOB
Date: Aug '87	Figure 1
Ashworth Explorations Ltd.	

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1. INTRODUCTION

This report summarizes field work done on the Plat Claim Group which was carried out from August 18 - 22, 1987. Work consisted of rock, silt and soil sampling and some geological mapping. Also included is a discussion of work done during 1986.

2. LOCATION, ACCESS, AND PHYSIOGRAPHY

The claim group is located in south-central B.C., approximately 25 kilometres north of Cache Creek. The centre of the claim group lies 7 kilometres northeast of the confluence of Scottie Creek and the Bonaparte River (Figure 1).

Access to the property is via Highway 97 from Cache Creek to the Scottie Creek road. Numerous logging roads run off the Scottie Creek road and onto the property, providing easy access to most of the claim group.

Topography in the area consists of rolling hills and steep ridges. Elevations vary from 3000 to 4500 feet with total relief in the order of 1500 feet. Much of the property is covered by overburden with outcrop confined to steep ridges and river-cut valleys. Vegetation is sparse and consists mainly of sagebrush and scrub pine.



CLINTON M.D.
KAMLOOPS M.D.

PLAT I

PLAT II

SCOT I

PLAT III

Chrome
Creek

145428

88548

45424

88549

PLAT IV

SCOT 2

DOBY

CH-2

124772

82781

94982

61621

CHROME I

CENSUS

CH-I

Highway
97

Cache Creek

SCALE 1:50,000 METRES
0 500 1000 2000 3000

PLAT I-IV CLAIMS

KAMLOOPS MINING DIVISION, B.C.
NTS 92 I 14/P3

CLAIM LOCATION MAP

Scale: 1:50,000

By: ES / GT

Date: September 1987

Fig. 2

Ashworth Explorations Limited

3. PROPERTY STATUS

The Plat claim group consists of four contiguous mineral claims, totalling 80 units (Figure 2). All claims lie in the Kamloops Mining Division, except for the northwest corner of Plat I, which lies in the Clinton Mining Division. The property is wholly owned by Mr. Clive Ashworth of Vancouver, B.C.

<u>CLAIM</u>	<u>UNITS</u>	<u>RECORD#</u>	<u>EXPIRY DATE</u>
Plat I	20	6753	August 27, 1988
Plat II	20	6754	August 27, 1988
Plat III	20	6755	August 27, 1988
Plat IV	20	6756	August 27, 1988

4. HISTORY

4.1 AREA HISTORY

In the early 1920's, a chromite deposit was discovered on Chrome Creek and the north fork of Scottie Creek. Samples taken from these two creeks assayed between 0.69 grams/ton (0.02oz/ton) and 4.8 grams/ton (0.15oz/ton) platinum (Thomlinson, 1920). Two panned sample taken 400 and 800 metres upstream from the mouth of Chrome Creek yielded 0.14 and 0.04 oz/ton platinum, respectively (Figure 2).

Old chromite showings were found on the Scot 1 and 2 mineral claims (Duffell and McTaggart, 1952). The showings are in a chromite-bearing serpentinite which occurs within Cache Creek sedimentary rocks. The chromite occurs as disseminated grains, and pods of massive material (Figure 2).

A magnetometer survey was conducted for Granges Exploration Aktiebolags on the Scot 1 and 2 claims in 1980. This survey located some highly magnetic areas which were assumed to contain chromite rich serpentinites (Zbitnoff, 1981). This information is pertinent to the Plat property since the Scot claims are located immediately west of the Plat III and IV claims (Figure 2).

The Mika property, located approximately 15km northwest from the Plat claim group, was tested for chromite occurrences by trenching and minor underground work in 1932. From the 1950's to late 1960's, the property was tested for the asbestos potential of the serpentines. In 1979, the area was staked by CCH Resources and later sold to Campbell Resources Inc. (formerly Campbell Chibougamau Mines Ltd.).

In 1980, a total of seven chromite showings were found on the Mika property, all containing grades greater than 32% and up to 42.4% Cr_2O_3 (Wilson, 1980). In 1981, three parallel zones of chromite mineralization, with widths in excess of one metre, were reported on the Mika claims. The Mika property is underlain by rocks of the Cache Creek group and include serpentinitized peridotites, dunites, serpentines and pyroxenites (Wilson, 1981).

A geochemical survey was carried out in 1986, by Beaty Geological Ltd. on behalf of Equinox Resources Ltd. Work was performed on the Chrome 1 claim, which is located approximately 1 1/2 km south of the Plat claim group. Results were not favourable for platinum-palladium mineralization, however it was deduced that the eastern portion of the claim contains the potential for gold mineralization.

4.2 PROPERTY HISTORY AND PREVIOUS WORK

Two property visits were conducted on the Plat claim group in 1986. Prior to this, there is no record of previous work.

In July 1986, a total of 8 rock samples and 1 silt sample were collected and analyzed for platinum, palladium and multi-element ICP. None of the samples detected platinum or any anomalous values in nickel, cobalt or chromium. The latter 3 elements are known as pathfinders for ultramafic bodies and are important for exploration. One grab sample from an adit on the crown grants, within the Scot claims (see Map 1) returned a value of 50 ppb Pt, 76 ppm Co and 1467 ppm Ni. This adit lies within serpentized peridotite.

In October 1986, five samples were taken on the Plat IV claim. Elements related to platinum mineralization (ie. nickel, cobalt, chromium) were all low. There was no detectable platinum or palladium. One sample returned an anomalous gold value of 290

ppb.

5. GEOLOGY

5.1 REGIONAL GEOLOGY

The Plat claims are situated within the Intermontane Belt near the eastern margin of the Cache Creek assemblage. This assemblage comprises three facies belts. A western belt of Triassic chert, argillite and siltstone encloses Upper Triassic volcanics. A central belt includes massive mid-to Late Permian carbonates of the Marble Canyon Formation and also includes minor thin-bedded carbonate, tuff and chert of Triassic age. An eastern belt contains large bodies of probable Late Permian basalt, ultramafics and melange. The melange consists of Late Permian to Late Triassic chert and argillite matrix, with blocks of carbonate, chert, basalt and ultramafic blocks of unknown age, and acidic volcanics.

Overlying the upper Cache Creek group is the upper Triassic Nicola group consisting of basic to acidic volcanoclastic rocks and intercalated argillite. These rocks tend to be more acidic in the west and tend to basic in the east.

5.2 LOCAL GEOLOGY (see Map 1)

The Plat I and IV claims are underlain by rocks of the Cache Creek Complex consisting mainly of radiolarian chert and acidic volcanics, with minor basalt and diabase units. This

assemblage is thought to be Pennsylvanian to Triassic in age (Monger, 1980-82).

The acidic volcanoclastics are the oldest rocks on the property and are composed of siliceous fragments cemented by a red ochre-coloured matrix of uncertain composition. This unit is intruded by an andesite porphyry dyke of uncertain age, in the eastern portion of the Plat IV claim. The dyke is moderately to intensely altered and secondary minerals, such as epidote and chlorite, were observed. Fine-grained, dark coloured volcanic rocks of basaltic composition were found in some localities, containing essentially calcic plagioclase and pyroxene. Granitic float occurs on the property. These float boulders are generally leucocratic (light-coloured), containing a high percentage of muscovite.

Unconsolidated alluvium material (Pleistocene to Recent), is exposed in road cuts throughout the Plat IV claim. This unit consists of angular fragments, mostly argillite and acidic volcanic rocks.

6. GEOCHEMISTRY

6.1 FIELD PROCEDURES

A total of 123 samples were collected on the Plat claim group, consisting of rock, soil and silt samples. A total of 15 soils were obtained from the B-horizon at an average depth of 30cm. A

total of 89 silts were collected from several drainage areas and included wet and dry silt samples. A total of 19 rocks were collected from mineralized outcrops as well as from float rocks.

6.2 RESULTS

All samples were analyzed for copper, nickel, cobalt, chromium, platinum, palladium and gold. Refer to Appendix D for analytical techniques, and Appendix C for analytical results.

6.2.1 Chromium, Platinum, Palladium

The results were quite low for these elements in soils and silts (see Map 2). The chromium values range from 9 ppm to 52 ppm Cr in soils and silts. The Cr values in rock, as expected, are considerably higher with values ranging from 21 ppm to 2900 ppm. The highest Cr value of 2900 ppm (R-11) is from a piece of ultramafic float and has a corresponding high nickel value as well as detectable palladium. The next highest Cr value was from sample R-12 which reported a value of 790 ppm, again with a corresponding high Ni value.

The platinum and palladium values are generally quite low. The Pt values in silts and soils range from 15 to 30 ppb, except for one sample which assayed 300 ppb. This high value, located on the detailed grid (see Map 2), does not have any corresponding anomalous values. It should be noted that several low Pt values are clustered in the detailed area. The highest palladium value

(60 ppm) comes from a silt sample (stream 'C') and corresponds with a weakly anomalous platinum value. Only two samples were above the detection limit for palladium in silts and soils. Three rock samples with detectable platinum are clustered on the Plat IV claim, however the values are quite low. A highly anomalous Pt value, 200 ppb, comes from a sample of basaltic float (see Appendix A).

6.2.2 Nickel and Cobalt

The nickel values in silts and soils range from 9 ppm to 69 ppm, and are scattered throughout the property.

The majority of the rock samples range from 12 ppm to 245 ppm. Two high values were reported; 930 ppm and 1700 ppm, which are coincident with high chromium values of 2900 ppm and 790 ppm, respectively. The high nickel values are from samples reported as ultramafic float rock (see Appendix A).

Cobalt ranges from 6 ppm to 17 ppm in silts and soils, with no definite cluster of values. The rock samples display a better correlation with nickel and chromium. The highest rock value of 66 ppm Co, corresponds with the highest nickel value of 1700 ppm and the second highest chromium value of 790 ppm.

6.2.3 Copper and Gold

Copper values in silts and soils range from 4 ppm to 100 ppm. The highest value of 100 ppm is coincident with a moderately high cobalt value. The rock values range from 4 ppm to 180 ppm Cu. The two highest values, 179 ppm and 180 ppm, also contain detectable platinum and palladium values. The gold values are generally below the detection limit of 5 ppb, and only six silts samples are above this. The highest value of 85 ppb Au, from stream B, does not contain any other anomalous values. Gold in rocks is low and the highest value is 35 ppb. Three of the five samples collected in October, 1986, returned detectable gold values. The highest value obtained was 290 ppb Au (see Map 1).

6.3 DISCUSSION

Geochemical surveys are considered a useful exploration tool when trying to locate ultramafic rocks which host platinum - palladium mineralization. These rocks are typically enriched in Cr, Ni, Co and Mg. Ultramafic rocks are probably the most spectacular example of a high-background source rock, and interpretation thus becomes quite difficult. A good geological knowledge of the area is essential.

The average value for chromium in soils is 43 ppm (Rose, Hawkes and Webb, 1979), therefore it is deduced that the values obtained in this study are background to weakly anomalous. The high Cr value in rock is below the median value of 2980 ppm, however the

correlation of nickel and palladium could prove to be of interest. The area of the detailed grid contains some interesting platinum values.

The nickel values in silts and soils appear to be weakly to moderately anomalous when considering the median value to be 17-20 ppm (Rose, Hawkes and Webb, 1979).

Cobalt values in silts and soils cluster around a cited average of 10 ppm. The slightly elevated (>13 ppm) Co values, tend to coincide with weakly anomalous nickel values. The rock samples display a correlation with high nickel and chromium values.

The copper and gold values are generally low and do not delineate anomalous zones. Sporadic high gold values do exist.

7. CONCLUSIONS AND RECOMMENDATIONS

1. The Plat claim group is situated in a geologically favourable environment. The property is underlain by rocks of the Cache Creek Complex, which is known to host platinum - palladium mineralization.
2. The results were quite low, however several elements are correlative and require further study.

3. The area of the detailed grid should be examined closely, as the Pt value of 300 ppb is very encouraging.
4. The sporadic gold values are interesting and should be sampled further.
5. Detailed mapping should be conducted over the entire property and areas of interest should be covered with a close-spaced (25m x 50m) grid. All samples should be analyzed for Pt, Pd and Au by fire assay and a 30 element ICP analysis.

CERTIFICATE

I, ELIZABETH A. SCROGGINS, of 202-2020 W. 2nd Ave., Vancouver, B.C., do hereby state that:

1. I am a graduate of the University of Western Ontario, in London, Ontario, with a B.Sc.(Hon.) degree in Geology, 1986.
2. I have actively pursued my career as a geologist for four years in Ontario, Alberta, British Columbia, and Idaho.
3. I have no direct or indirect interest in the property.

Respectfully submitted:


Elizabeth A. Scroggins, B.Sc.(Hon.)

Dated at Vancouver, B.C.
October 20, 1987

CERTIFICATE

I, FAYZ YACOUB, do hereby certify:

1. That I am a graduate in Geology and Chemistry from Assuit University, Egypt (B.Sc. 1967), and Mining Exploration Geology of the International Institute for Aerial Survey and Earth Sciences (I.T.C.), Holland (Diploma 1978).
2. That I have practiced in the geological profession for the past fourteen years.
3. That the information, opinions and recommendations in the attached report are based on personal observations on the Plat I - IV claims in the period August 18 to August 22, 1987, and from general reference material.
4. That I own no interest in the shares or securities of Ashworth Explorations Limited or the subject property, nor do I expect to receive any such interest.

Respectfully submitted,


FAYZ F. YACOUB

Dated at Vancouver, British Columbia
October 8, 1987

REFERENCES

- Duffel, S. and McTaggart, K.C. (1952). Ashcroft Map Area, British Columbia. Geological Survey of Canada. Memoir 262, 76-77, 96-99.
- Monger, J.W.H. (1980-82). Bedrock Geology of the Ashcroft (92I) Map Area. Geological Survey of Canada. O.F. 980.
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- Rose, A.W., Hawkes, H.E., Webb, J.S. (1979). "Geochemistry in Mineral Exploration", 2nd edn. Academic Press, New York, 657 pp.
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- Zbitnoff, George (1981). Diamond Drill Report on the Barbara Claim, British Columbia Assessment Report, 10, 208, 6 pp.

APPENDIX A

ROCK SAMPLE DESCRIPTIONS

Plat I, II, III and IV Claims

Rock Sample Descriptions

August 1987

(see Map 1)

<u>Sample No.</u>	<u>Width of Area Exposed</u>
R-1	20 metres
<u>Description:</u> a chip sample over 20 metres of andesite porphyry dyke at 300 degrees, altered and loaded with secondary minerals such as epidote and chlorite, no sulphides.	
R-2	Grab
<u>Description:</u> grab sample taken from an outcrop of acidic volcanoclastic rock loaded with epidote.	
R-3	30 centimetres
<u>Description:</u> a chip sample over 30 centimetres of highly altered, friable acidic volcanoclastic rock, some cleavage filled with sandy clay and limonite.	
R-4	Float
<u>Description:</u> a float sample taken from float quartz materials with 30-40% mica, no visible sulphides.	
R-5	10 metres
<u>Description:</u> a chip sample over 10 metres of silicified, vesicular rock, crosscutting limonitic veinlets.	
R-6	1 metre
<u>Description:</u> a chip sample collection from small outcrop of basic volcanic slightly magnetic, no visible mineralization.	
R-7	2 metres
<u>Description:</u> a chip sample collection from small outcrop of basic volcanic slightly magnetic, no visible mineralization.	
R-8	Float
<u>Description:</u> a float serpentized rock, slightly magnetic, no obvious mineralization.	
R-9	2 metres
<u>Description:</u> a chip sample over 2 metres of vesicular dark argillitic rock, no visible mineralization.	
R-10	5 metres
<u>Description:</u> a chip sample over 5 metres of vesicular, reddish coloured rock, no obvious mineralization.	

Sample No.	Width of Area Exposed
R-11	Float
<u>Description:</u> ultramafic float, dark green to light green crosscutting serpentinite veinlets, visible chromite, slightly magnetic, no outcrop.	
R-12	Float
<u>Description:</u> serpentinitized float, slightly magnetic, no visible chromite.	
R-13	1 metre
<u>Description:</u> a chip sample over 1 metre of basic volcanic rock, vesicular, no obvious mineralization.	
R-14	Float
<u>Description:</u> float sample of acidic volcanic rock with quartz veinlets, no mineralization, no outcrop.	
R-15	Float
<u>Description:</u> float, andesitic volcanic rock, oxidized, slightly magnetic and heavy.	
R-16	Float
<u>Description:</u> float sample of basic volcanic, vesicular, slightly magnetic, no visible mineralization.	
R-17	Float
<u>Description:</u> float sample of vesicular basalt, highly altered with a lot of oxidation, slightly magnetic, no outcrop.	
R-18	1 metre
<u>Description:</u> a chip sample taken from reddish, spongy acidic volcaniclastic rock, no visible mineralization.	
R-19	1 metre
<u>Description:</u> a chip sample over 1 metre of basic volcanic rock, vesicular with no visible mineralization.	

APPENDIX B

ITEMIZED COST STATEMENTS
07/86, 10/86, 08/87

ITEMIZED COST STATEMENTS

JULY 28-30, 1986

Field Crew		
Geologist 3 days @ \$250/day		\$ 750.00
Field Costs		
Truck Rental 3 days @ \$90/day	\$270	
Food and Accommodation 3 days @ \$60/day	180	
Supplies	<u>50</u>	\$ 500.00
Lab Analysis		
9 rock samples @ \$22.25/sample	\$200.25	
1 soil sample @ \$20.35/sample	<u>20.35</u>	\$ 220.60
Total		<u>\$1,470.60</u>

OCTOBER 19, 1986

Field Crew		
Geologist 1 day @ \$250/day	\$250	
Geotechnician 1 day @ \$190/day	<u>190</u>	\$ 440.00
Field Costs		
Truck Rental 1 day @ \$90/day	\$ 90	
Food and Accommodation 2 mandays @ \$60/day	120	
Supplies	<u>50</u>	\$ 260.00
Lab Analysis		
5 rock samples @ \$29/sample		<u>\$ 145.00</u>
Total		<u>\$ 845.00</u>

AUGUST 18-22, 1987

Field Crew

Geologist 5 days \$325/day	\$1625	
Geotechnician 5 days @ \$210/day	1050	\$2,675.00

Field Costs

Truck Rental 5 days @ \$110/day	\$550	
Food and Accommodation 10 mandays \$80/day	800	
Supplies	<u>200</u>	\$1,550.00

Lab Analysis

19 rock samples @ \$23.25/sample	\$441.75	
15 soil samples @ \$20.90/sample	313.50	
87 silt samples @ \$20.90/sample	1860.10	\$2,615.35

Total

\$6,790.35

Total for 3 property examinations '86/'87

\$9,105.95

APPENDIX C

ANALYTICAL RESULTS
08/86, 11/86, 08/87



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 988-5211 TELEX: 04-352576

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5858

REPORT NUMBER: 8603706A

JOB NUMBER: 860370

ASHNORTH EXPLORATION LTD.

PAGE 1 OF 1

SAMPLE #	Pt	Pd
	ppb	oob
ADIT - 1	50	nd
ROCK 02	nd	nd
SAM 03	nd	nd
SAM 04	nd	nd
S 8	nd	nd
S 10	nd	nd
S 13	nd	nd
S 16	nd	nd
S 20 - 4	nd	nd
CREEK SAMPLE 01	nd	nd

DETECTION LIMIT

50 50

nd = none detected

-- = not analysed

is = insufficient sample

VANGEOCHEM LAB LIMITED

MAIN OFFICE: 1521 PEMBERTON AVE. N. VANCOUVER B.C. V7P 2S3 PH: (604) 986-5211 TELEX: 04-352578
 BRANCH OFFICE: 1630 PANDORA ST. VANCOUVER B.C. V5L 1L6 PH: (604) 251-5656

ICAP GEOCHEMICAL ANALYSIS

A .5 GRAM SAMPLE IS DIGESTED WITH 5 ML OF 3:1:2 HCL TO HNO₃ TO H₂O AT 95 DEG. C FOR 90 MINUTES AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR SM, MN, FE, CA, P, CR, MG, BA, PD, AL, NA, K, W, PT AND SR. AU AND PD DETECTION IS 3 PPM.
 IS= INSUFFICIENT SAMPLE. ND= NOT DETECTED, = NOT ANALYZED

COMPANY: ASHWORTH
 ATTENTION:
 PROJECT: N/G

REPORT#: 860347PA
 JOB#: 860347
 INVOICE#: 860347NA

DATE RECEIVED: 86/08/06
 DATE COMPLETED: 86/08/11
 COPY SENT TO:

ANALYST W. Pearce

PAGE 1 OF 1

SAMPLE NAME	AG PPM	AL I	AS PPM	AU PPM	BA PPM	BI PPM	CA I	CD PPM	CO PPM	CR PPM	CU PPM	FE I	K I	MG I	MN PPM	MO PPM	NA I	NI PPM	P I	PR PPM	PD PPM	PT PPM	SR PPM	SM PPM	SR PPM	U PPM	W PPM	ZN PPM
AD11-1	.1	.08	ND	ND	4	ND	.05	.1	76	319	4	3.55	.01	17.59	404	ND	.01	1467	.01	8	ND	ND	ND	ND	4	ND	ND	30
ROCK 02	.1	4.37	ND	ND	20	4	2.04	.4	25	125	137	2.13	.08	4.04	315	ND	.01	207	.01	ND	ND	ND	ND	ND	9	5	ND	2
SAM 03	.3	.40	7	ND	58	ND	.07	.2	2	32	4	.86	.04	.36	450	4	.01	25	.01	4	ND	ND	4	ND	7	ND	ND	12
SAM 04	.2	.73	4	ND	75	3	.54	.1	13	55	20	2.22	.06	.85	279	2	.01	52	.06	1	ND	ND	3	ND	47	4	ND	26
S 8	.4	.58	4	ND	78	ND	.66	.1	11	49	30	2.62	.11	.60	277	2	.01	34	.19	4	ND	ND	3	ND	75	4	ND	75
S 10	.6	.63	4	ND	53	ND	.51	.1	9	33	25	1.92	.10	.40	216	1	.01	22	.12	5	ND	ND	3	ND	66	ND	ND	33
S 13	.6	.60	3	ND	49	6	.51	.1	12	65	31	3.02	.15	.60	195	2	.01	28	.16	8	ND	ND	3	ND	54	ND	ND	68
S 16	.8	1.82	ND	ND	108	4	.56	.1	18	51	33	2.79	.11	.78	265	1	.01	72	.08	9	ND	ND	ND	ND	70	ND	ND	42
S 20-4	.6	1.01	ND	ND	54	ND	.70	.1	24	95	17	4.02	.13	.64	152	2	.01	59	.16	5	ND	ND	3	ND	86	5	ND	62
CREEK SAMPLE 01	1.1	.68	4	ND	72	4	.39	.5	17	54	17	3.29	.06	.70	331	2	.01	45	.07	6	ND	ND	4	ND	39	3	ND	48
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1



VANGEOCHEM LAB LIMITED

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REPORT NUMBER: 860618 GA

JOB NUMBER: 860618

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PAGE 1 OF 1

SAMPLE #	Au	Pt	Pd
	oob	oam	oam
PL-86-01	nd	nd	nd
PL-86-02	20	nd	nd
PL-86-03	290	nd	nd
PL-86-04	nd	nd	nd
PL-86-05	10	nd	nd

DETECTION LIMIT

nd = none detected

5

-- = not analysed

0.05

0.05

is = insufficient sample

VANGEOCHEM LAB LIMITED

MAIN OFFICE: 1521 PEMBERTON AVE. N. VANCOUVER B.C. V7P 2S3 PH: (604) 986-5211 TELEX: 04-352578
 BRANCH OFFICE: 1630 PANDORA ST. VANCOUVER B.C. V5L 1L6 PH: (604) 251-5656

ICAP GEOCHEMICAL ANALYSIS

A .5 GRAM SAMPLE IS DIGESTED WITH 5 ML OF 3:1:2 HCL TO HNO3 TO H2O AT 95 DEG. C FOR 90 MINUTES AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR SN, MN, FE, CA, P, CR, MG, BA, PD, AL, NA, K, W, PT AND SR. AU AND PD DETECTION IS 3 PPM.
 IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, -= NOT ANALYZED

COMPANY: ASHWORTH EXPLORATIONS
 ATTENTION:
 PROJECT: PLATINUM 86

REPORT#: 860618PA
 JOB#: 860618
 INVOICE#: 860618NA

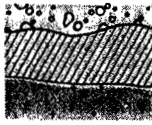
DATE RECEIVED: 86/11/06
 DATE COMPLETED: 86/11/12
 COPY SENT TO:

ANALYST W. J. Reed

PAGE 1 OF 1

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
PL-86-01	.5	1.93	ND	ND	382	ND	1.31	.1	23	56	133	3.82	.14	.95	663	ND	.01	89	.12	12	ND	ND	ND	ND	136	ND	ND	74
PL-86-02	.2	2.04	ND	ND	179	ND	.83	.1	38	55	81	3.89	.16	.86	262	ND	.01	159	.06	14	ND	ND	ND	ND	126	ND	ND	74
PL-86-03	.1	.41	ND	ND	260	ND	.32	.1	16	71	23	6.83	.14	.64	92	1	.01	173	.01	12	ND	ND	ND	ND	47	ND	ND	65
PL-86-04	.8	1.72	4	ND	110	4	.73	.1	13	19	21	2.77	.13	.91	312	ND	.01	15	.08	32	ND	ND	ND	2	170	4	ND	53
PL-86-05	.4	1.29	3	ND	135	ND	.70	.1	17	25	61	3.17	.12	.61	254	ND	.01	66	.10	12	ND	ND	ND	ND	80	ND	ND	39
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2R5
Phone: (604) 985-0681
Telex: 04-352667

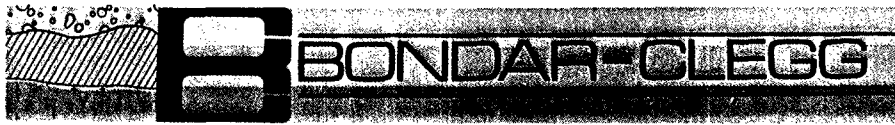


BONDAR-CLEGG

**Geochemical
Lab Report**

ASHWORTH EXPLORATION LTD.
MR. CLIVE ASHWORTH
PEMBERTON BLDG (MEZZ FLR)
744 WEST HASTINGS STREET
VANCOUVER, B.C. V6C 1A5

Bondar-Clegg & Company Ltd.
 130 Pemberton Ave.
 North Vancouver, B.C.
 Canada V7P 2R5
 Phone: (604) 985-0681
 Telex: 04-352667



**Geochemical
 Lab Report**

REPORT: 127-7018 (COMPLETE)

REFERENCE INFO:

CLIENT: ASHWORTH EXPLORATION LTD.
 PROJECT: 146

SUBMITTED BY: FAYZ VACOUB
 DATE PRINTED: 29-SEP-87

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Cu Copper	123	1 PPM	HN03-HCL HOT EXTR	Atomic Absorption
2	Ni Nickel	123	2 PPM	HN03-HCL HOT EXTR	Atomic Absorption
3	Co Cobalt	123	1 PPM	HN03-HCL HOT EXTR	Atomic Absorption
4	Cr Chromium (Acid Sol.)	123	2 PPM	HN03-HCL HOT EXTR	Atomic Absorption
5	Pt Platinum	123	15 PPB	FIRE-ASSAY	
6	Pd Palladium	123	2 PPB	FIRE-ASSAY	
7	Au Gold - Fire Assay	123	5 PPB	FIRE-ASSAY	Fire Assay AA
8	Au/wt Sample weight/grams	102	0.1 G		
9	Au/wt -20 Au Sample Weight	37	0.1 G		

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
S SOILS	15	1 -80	104	DRY, SIEVE -80	104
T STREAM SEDIMENT, SILT	89	2 -150	19	CRUSH, PULVERIZE -150	19
R ROCK OR BED ROCK	19				

REPORT COPIES TO: MR. CLIVE ASHWORTH

INVOICE TO: MR. CLIVE ASHWORTH



REPORT: 127-7018

PROJECT: 146

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Ni PPM	Co PPM	Cr PPM	Pt PPB	Pd PPB	Au PPR	Au/wt G	Au/wt G
S1 PLAT87 BL 0+00N		39	69	15	47	<15	6	<5		10.0
S1 PLAT87 BL 0+25N		18	30	10	47	<15	<2	<5	10.0	
S1 PLAT87 BL 0+50N		30	45	12	47	<15	<2	<5	10.0	
S1 PLAT87 BL 0+25S		28	58	16	48	15	<2	<5	10.0	
S1 PLAT87 BL 0+50S		21	49	13	44	<15	<2	<5	5.0	
S1 PLAT87 1+00E 00+00N		26	49	12	44	<15	<2	<5		10.0
S1 PLAT87 1+00E 25+00N		23	60	16	41	15	<2	<5	10.0	
S1 PLAT87 1+00E 50+00N		21	30	8	37	15	<2	<5	10.0	
S1 PLAT87 1+00E 25+00S		20	40	11	46	15	<2	<5	10.0	
S1 PLAT87 1+00E 50+00S		23	68	16	49	<15	<2	<5	10.0	
S1 PLAT87 1+00W 0+00N		22	52	14	44	15	<2	<5	10.0	
S1 PLAT87 1+00W 0+25N		20	40	12	41	300	<2	<5		10.0
S1 PLAT87 1+00W 0+50N		22	40	11	46	<15	<2	<5	10.0	
S1 PLAT87 1+00W 25+00S		29	50	14	46	15	<2	<5	10.0	
S1 PLAT87 1+00W 50+00S		20	56	15	45	<15	<2	<5	10.0	
T1 PLAT87 A-01		14	34	10	41	<15	<2	<5	10.0	
T1 PLAT87 A-02		11	30	9	42	<15	<2	<5	10.0	
T1 PLAT87 A-03		13	40	10	46	<15	<2	<5		10.0
T1 PLAT87 A-04		15	38	10	45	<15	<2	<5	10.0	
T1 PLAT87 A-05		15	48	11	52	15	<2	<5		10.0
T1 PLAT87 A-05"A"		10	36	10	39	<15	<2	<5	10.0	
T1 PLAT87 A-06		12	36	11	42	<15	<2	<5		10.0
T1 PLAT87 A-07		15	38	11	46	15	<2	<5	2.0	8.0
T1 PLAT87 A-08		14	38	11	44	<15	<2	<5	2.0	8.0
T1 PLAT87 A-09		11	32	9	39	15	<2	<5	2.0	8.0
T1 PLAT87 A-10		13	38	10	42	<15	<2	<5		10.0
T1 PLAT87 A-11		20	38	12	45	15	<2	<5		10.0
T1 PLAT87 A-12		18	38	10	44	30	<2	<5	2.0	8.0
T1 PLAT87 A-13		15	38	11	43	15	<2	<5		10.0
T1 PLAT87 A-14		19	42	13	46	<15	<2	<5	2.0	8.0
T1 PLAT87 A-15		15	48	13	48	<15	<2	<5		10.0
T1 PLAT87 A-16		12	38	10	38	20	<2	<5	10.0	
T1 PLAT87 A-17		11	45	12	41	15	<2	<5	2.0	8.0
T1 PLAT87 A-18		15	42	11	48	<15	<2	<5	8.0	
T1 PLAT87 A-19		12	40	10	44	<15	<2	<5	10.0	
T1 PLAT87 A-20		10	43	11	37	<15	<2	<5	10.0	
T1 PLAT87 A-21		15	40	11	43	20	<2	<5	10.0	
T1 PLAT87 A-22		10	50	11	46	<15	<2	<5	2.0	8.0
T1 PLAT87 A-23		12	56	12	49	<15	<2	5	2.0	8.0
T1 PLAT87 A-24		20	44	13	43	15	<2	5	3.0	7.0

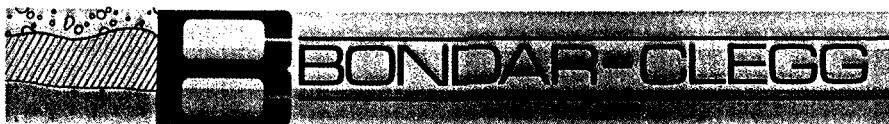


REPORT: 127-7018

PROJECT: 146

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Ni PPM	Co PPM	Cr PPM	Pt PPB	Pd PPB	Au PPB	Au/wt G	Au/wt G
T1 PLAT87 A-25		19	46	13	37	<15	<2	15	10.0	
T1 PLAT87 A-26		16	62	15	46	<15	<2	<5		10.0
T1 PLAT87 A-27		20	52	16	41	15	<2	<5	10.0	
T1 PLAT87 A-28		13	44	12	44	<15	<2	<5	10.0	
T1 PLAT87 B-01		20	40	14	33	<15	<2	<5	10.0	
T1 PLAT87 B-02		18	46	15	34	<15	<2	85	10.0	
T1 PLAT87 B-03		21	38	14	29	<15	<2	<5	10.0	
T1 PLAT87 B-04		15	36	13	30	<15	<2	<5	10.0	
T1 PLAT87 B-05		20	36	12	30	<15	<2	<5	10.0	
T1 PLAT87 B-06		10	10	3	9	<15	<2	<5	4.0	
T1 PLAT87 B-07		20	44	14	38	15	<2	<5	8.0	
T1 PLAT87 B-08		19	35	12	28	30	<2	<5		10.0
T1 PLAT87 B-09		20	30	12	31	<15	<2	<5	2.0	8.0
T1 PLAT87 B-10		20	30	12	33	<15	<2	<5	10.0	
T1 PLAT87 B-11		16	35	12	34	<15	<2	<5	10.0	
T1 PLAT87 B-12		12	28	9	20	<15	<2	<5	8.0	
T1 PLAT87 B-13		15	45	14	39	<15	<2	<5	10.0	
T1 PLAT87 B-14		15	52	15	39	<15	<2	<5	10.0	
T1 PLAT87 C-01		11	44	12	46	<15	<2	<5		10.0
T1 PLAT87 C-02		15	44	13	45	<15	<2	<5	2.0	7.0
T1 PLAT87 C-03		20	53	14	43	30	60	<5	2.0	8.0
T1 PLAT87 C-04		21	60	17	45	<15	<2	<5	5.0	
T1 PLAT87 C-05		12	48	12	37	<15	<2	<5	2.0	8.0
T1 PLAT87 C-06		12	39	11	39	15	<2	<5	10.0	
T1 PLAT87 C-07		11	37	11	42	<15	<2	15	10.0	
T1 PLAT87 C-08		12	36	12	44	<15	<2	<5	2.0	8.0
T1 PLAT87 C-09		12	41	13	41	<15	<2	<5		10.0
T1 PLAT87 C-10		22	40	12	42	<15	<2	<5		10.0
T1 PLAT87 D-01		70	30	10	40	<15	<2	<5		10.0
T1 PLAT87 D-02		22	33	10	41	<15	<2	<5	10.0	
T1 PLAT87 D-03		100	26	16	27	<15	<2	<5		5.0
T1 PLAT87 D-04		20	18	8	21	<15	<2	<5		10.0
T1 PLAT87 D-05		21	18	7	30	<15	<2	<5	10.0	
T1 PLAT87 D-06		20	23	8	33	<15	<2	<5	5.0	
T1 PLAT87 E-01		25	40	10	18	<15	<2	<5		10.0
T1 PLAT87 E-02		18	28	8	26	<15	<2	<5	10.0	
T1 PLAT87 E-03		12	20	9	20	15	<2	<5		10.0
T1 PLAT87 E-04		15	20	7	19	<15	<2	<5	5.0	
T1 PLAT87 E-05		16	16	6	16	<15	<2	<5	10.0	
T1 PLAT87 E-06		24	44	14	34	<15	<2	<5	10.0	



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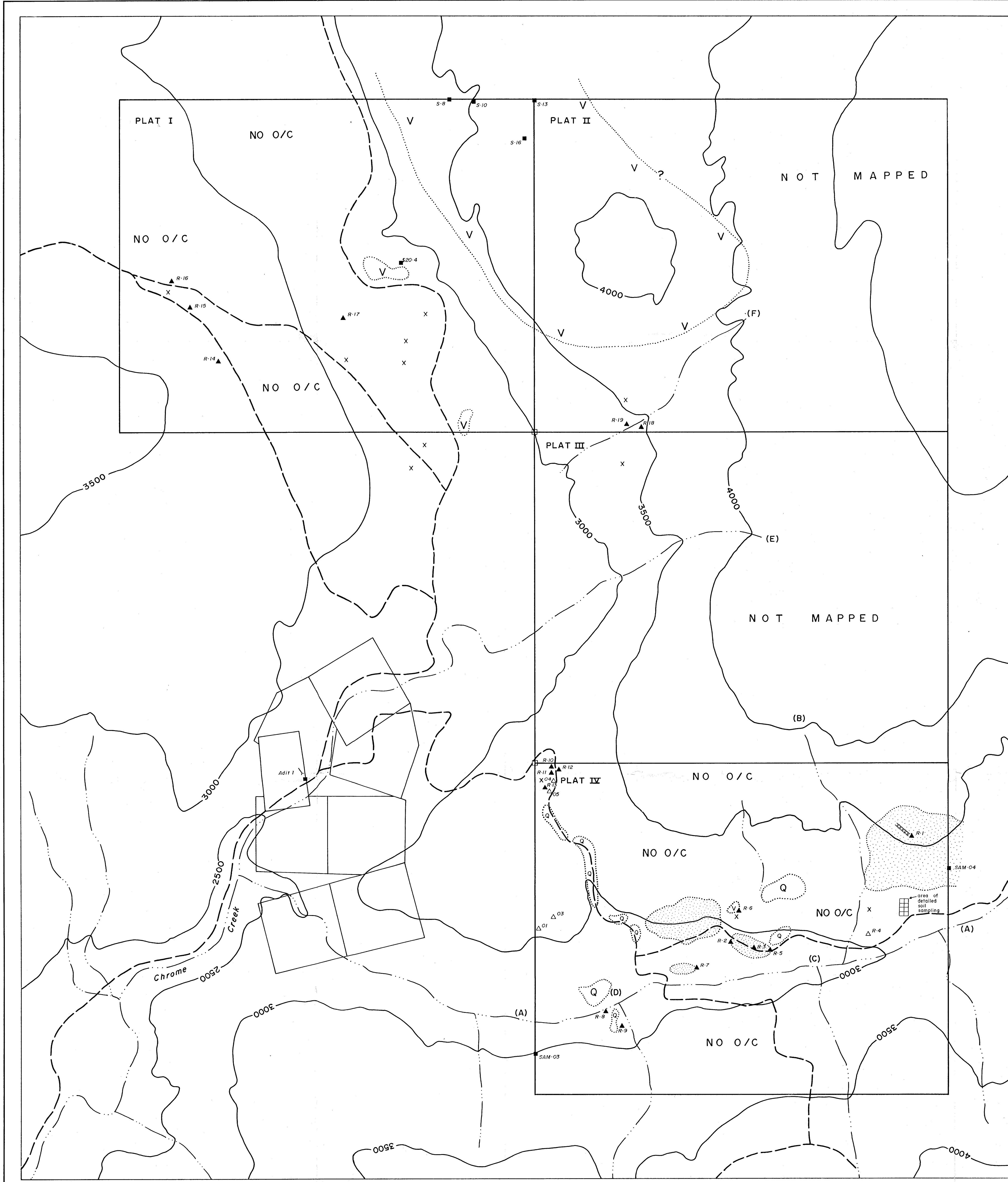
SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Ni PPM	Co PPM	Cr PPM	Pt PPB	Pd PPB	Au PPB	Au/wt G	Au/wt G
T1 PLAT87 E-07		11	26	7	25	<15	<2	<5	5.0	
T1 PLAT87 E-08		12	24	10	31	<15	<2	<5	10.0	
T1 PLAT87 E-09		10	16	7	24	<15	<2	<5	7.0	
T1 PLAT87 E-10		12	16	8	25	<15	<2	<5	10.0	
T1 PLAT87 E-11		13	18	9	24	<15	<2	<5	10.0	
T1 PLAT87 E-12		16	36	13	29	<15	<2	<5	10.0	
T1 PLAT87 E-13		19	50	13	40	<15	<2	<5	10.0	
T1 PLAT87 E-14		12	18	9	32	<15	<2	<5	10.0	
T1 PLAT87 F-01		10	10	5	15	<15	<2	<5	10.0	
T1 PLAT87 F-02		4	9	6	20	<15	<2	<5	10.0	
T1 PLAT87 F-03		6	10	6	19	<15	<2	<5	10.0	
T1 PLAT87 F-04		28	20	10	22	<15	<2	<5	6.0	
T1 PLAT87 F-05		10	12	7	21	<15	<2	<5	8.0	
T1 PLAT87 F-06		10	10	5	12	20	<2	<5	10.0	
T1 PLAT87 F-07		8	12	5	18	<15	<2	<5	10.0	
T1 PLAT87 F-08		10	18	8	27	<15	<2	<5	10.0	
T1 PLAT87 F-09		14	19	8	23	<15	<2	5	10.0	
T1 PLAT87 F-10		10	16	9	22	15	<2	<5	2.0	8.0
T1 PLAT87 F-11		10	13	5	19	<15	<2	<5	3.0	7.0
T1 PLAT87 F-12		8	18	7	24	<15	<2	<5	8.0	
T1 PLAT87 F-13		16	22	9	27	<15	<2	<5	10.0	
T1 PLAT87 F-14		14	18	7	22	<15	<2	<5		10.0
T1 PLAT87 F-15		12	17	7	23	<15	<2	<5	10.0	
T1 PLAT87 F-16		12	20	8	29	<15	<2	<5	10.0	
R2 PLAT87 R-01		180	100	12	81	15	10	<5	10.0	
R2 PLAT87 R-02		179	96	14	80	15	8	<5	10.0	
R2 PLAT87 R-03		48	68	14	75	30	<2	<5	10.0	
R2 PLAT87 R-04		22	12	1	111	<15	<2	<5	10.0	
R2 PLAT87 R-05		52	64	15	83	<15	<2	<5	10.0	
R2 PLAT87 R-06		126	65	17	87	<15	2	35	10.0	
R2 PLAT87 R-07		43	112	25	72	<15	4	<5	10.0	
R2 PLAT87 R-08		43	114	26	151	<15	4	20	10.0	
R2 PLAT87 R-09		31	38	9	83	<15	2	5	10.0	
R2 PLAT87 R-10		22	52	12	46	<15	6	<5	10.0	
R2 PLAT87 R-11		17	930	26	2900	<15	4	<5	10.0	
R2 PLAT87 R-12		8	1700	66	790	<15	2	<5	10.0	
R2 PLAT87 R-13		8	22	3	67	<15	<2	<5	10.0	
R2 PLAT87 R-14		4	39	1	21	<15	2	<5	10.0	
R2 PLAT87 R-15		59	148	28	66	<15	<2	<5	10.0	
R2 PLAT87 R-16		42	162	34	65	<15	<2	<5	10.0	

APPENDIX D
ANALYTICAL TECHNIQUES

ANALYTICAL TECHNIQUES

Samples collected during 1986 were analyzed by Vangeochem Lab Limited of North Vancouver, B.C. The soil sample was dried and sieved to minus 80 mesh. All rocks were dried, crushed and pulverized to minus 120 mesh. A multi-element ICP (28 elements) analysis was performed on all samples. The geochemical material is digested with hot aqua-regia acids and analyzed by using a Jarrell-Ash 0.75 meter grating ICAP instrument. Gold was analyzed by fire assay with an AAS finish and platinum and palladium were analyzed by fire assay with an AA finish.

Samples from the 1987 program were analyzed by Bondar-Clegg of Vancouver, B.C. The soil and silt samples were dried and sieved to minus 80 mesh. The rocks were crushed and pulverized to minus 150 mesh. All samples were analyzed for Cu, Ni, Co and Cr by a HNO₃ - HCl hot extraction followed by atomic absorption. Gold, platinum and palladium were analyzed by fire assay with AA finish.



Rock Assays

Sample Number	Type of Sample	Width (metres)	Au -ppb	Cu -ppm	Ni -ppm	Co -ppm	Cr -ppm	Pt -ppb	Pd -ppb
R-1	chip	20	< 5	180	100	12	81	15	10
R-2	grab	-	< 5	179	96	14	80	15	9
R-3	chip	0.3	< 5	48	68	14	75	30	< 2
R-4	float	-	< 5	22	12	1	111	< 15	< 2
R-5	chip	10	< 5	52	64	15	83	< 15	< 2
R-6	chip	1	35	126	65	17	87	< 15	2
R-7	chip	2	< 5	43	112	25	72	< 15	4
R-8	float	-	20	43	114	26	151	< 15	4
R-9	chip	2	5	31	38	9	83	< 15	2
R-10	chip	5	< 5	22	52	12	46	< 15	6
R-11	float	-	< 5	17	930	26	2300	< 15	4
R-12	float	-	< 5	8	1700	66	790	< 15	2
R-13	chip	1	< 5	8	22	3	67	< 15	< 2
R-14	float	-	< 5	4	39	1	21	< 15	2
R-15	float	-	< 5	59	148	28	66	< 15	< 2
R-16	float	-	< 5	42	162	34	65	< 15	< 2
R-17	float	-	< 5	42	195	38	46	200	20
R-18	chip	1	< 5	38	245	41	64	< 15	< 2
R-19	chip	1	< 5	17	25	10	38	< 15	< 2
Adit-1	grab	-	-	1467	76	319	50	< 50	< 50
Rock-2	grab	-	-	207	25	125	< 50	< 50	< 50
Sam-03	grab	-	-	4	25	2	32	< 50	< 50
Sam-04	grab	-	-	20	52	13	55	< 50	< 50
S-8	grab	-	-	30	34	11	49	< 50	< 50
S-10	grab	-	-	23	22	9	33	< 50	< 50
S-13	grab	-	-	31	28	12	65	< 50	< 50
S-16	grab	-	-	33	72	18	51	< 50	< 50
S-20-4	grab	-	-	17	59	24	95	< 50	< 50
PL-86-1	grab	-	< 5	133	89	23	56	< 50	< 50
PL-86-3	grab	-	290	23	173	16	71	< 50	< 50
PL-86-4	grab	-	< 5	21	15	13	19	< 50	< 50
PL-86-5	grab	-	10	61	66	17	25	< 50	< 50

LEGEND

Geology

- Q Unconsolidated strata, Alluvium deposits
- X Leucocratic granitic float
- XXXXX Andesite porphyry dyke
- V Basalt, diabase
- Acidic volcaniclastics

Symbols

- Area of outcrop
- Adit
- Rock sample location (prefix PLAT-87-R#) 08/87
- Rock sample location 07/86
- Rock sample location (prefix PL-86-#) 10/86
- Legal corner post
- Claim boundary (approximate)

Drainage
Trails
Contours (feet)

GEOLOGICAL BRANCH ASSESSMENT REPORT

16,525

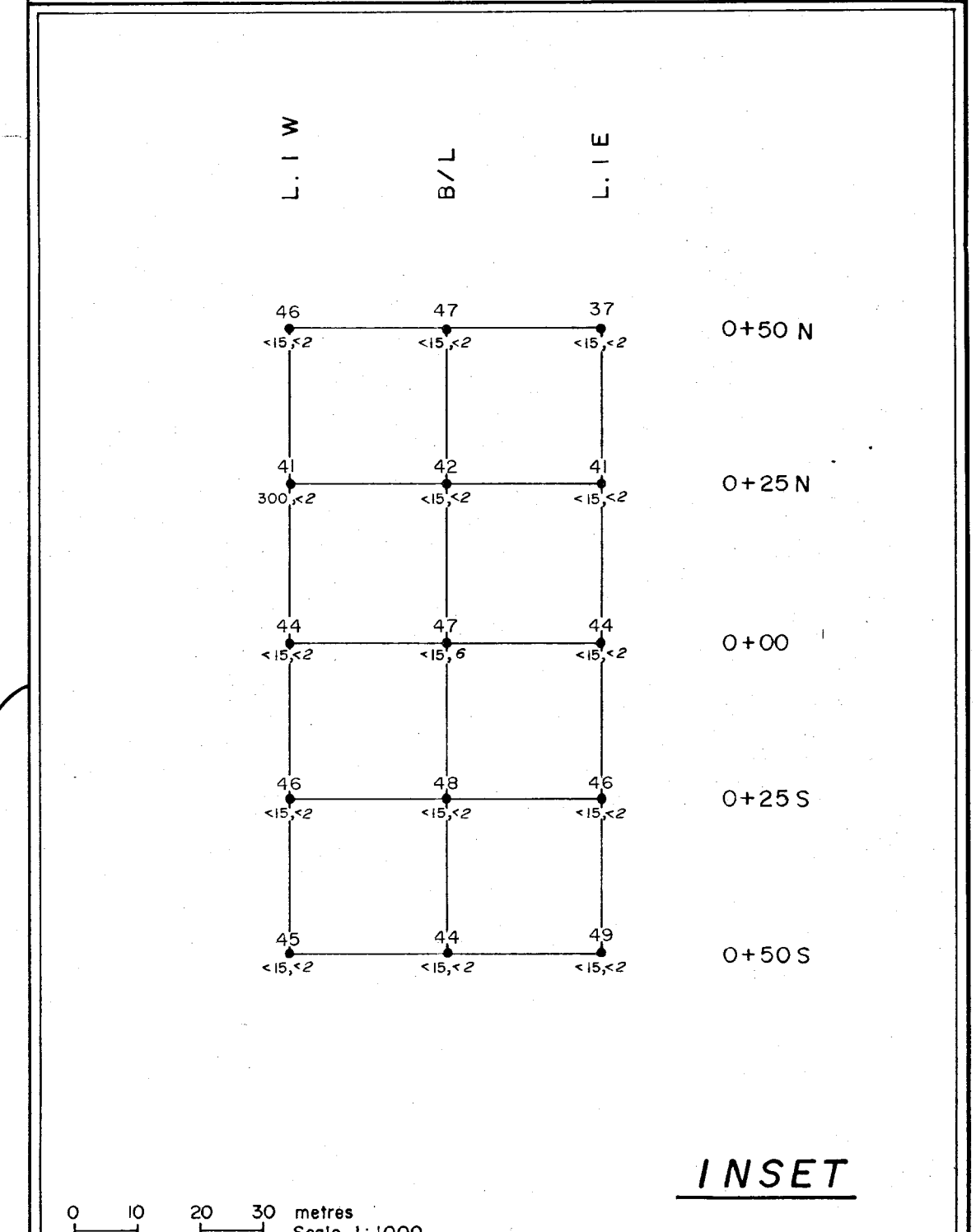
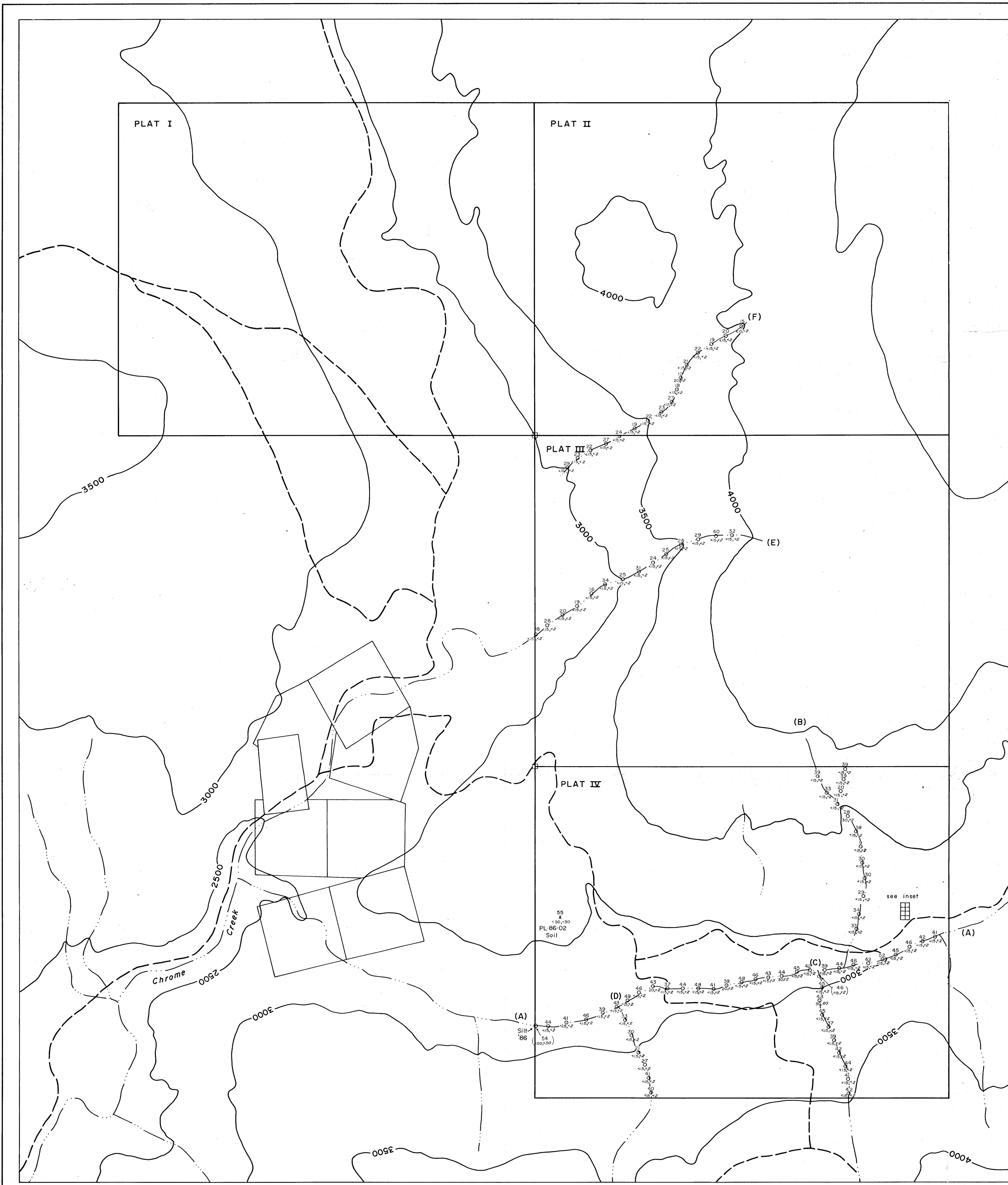
0 100 200 300 400 500 750 1000
SCALE IN METRES

PLAT I-IV CLAIMS
KAMLOOPS M.D., B.C.

GEOLOGY MAP

Scale: 1:10,000 By: F. YACOB
Date: September 1987 N.T.S. 92-P/3 + 92-1/14 Map: 1

Ashworth Explorations Limited



INSET

LEGEND

●	Cr (ppm) 41 Pt (ppb) <15, <2 Pd (ppb)	Soil sample location, Aug. 87
□	Cr (ppm) 44 Pt (ppb) <15, <2 Pd (ppb)	Silt sample location, Aug. 87
—		Property boundary (approximate)
□		Legal Corner Post
—		Drainage
—		Trails
—		Contours (feet)

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

16,525

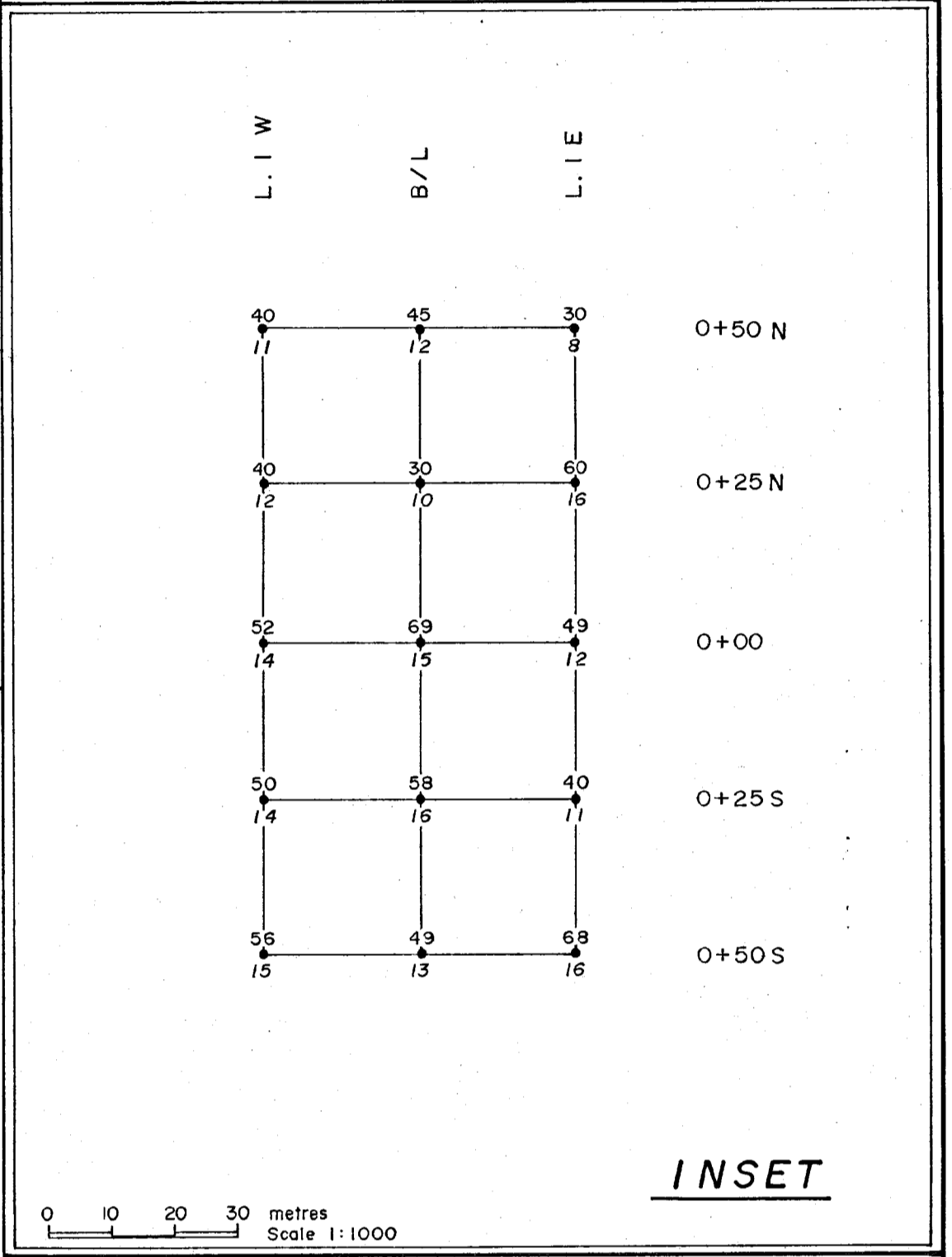
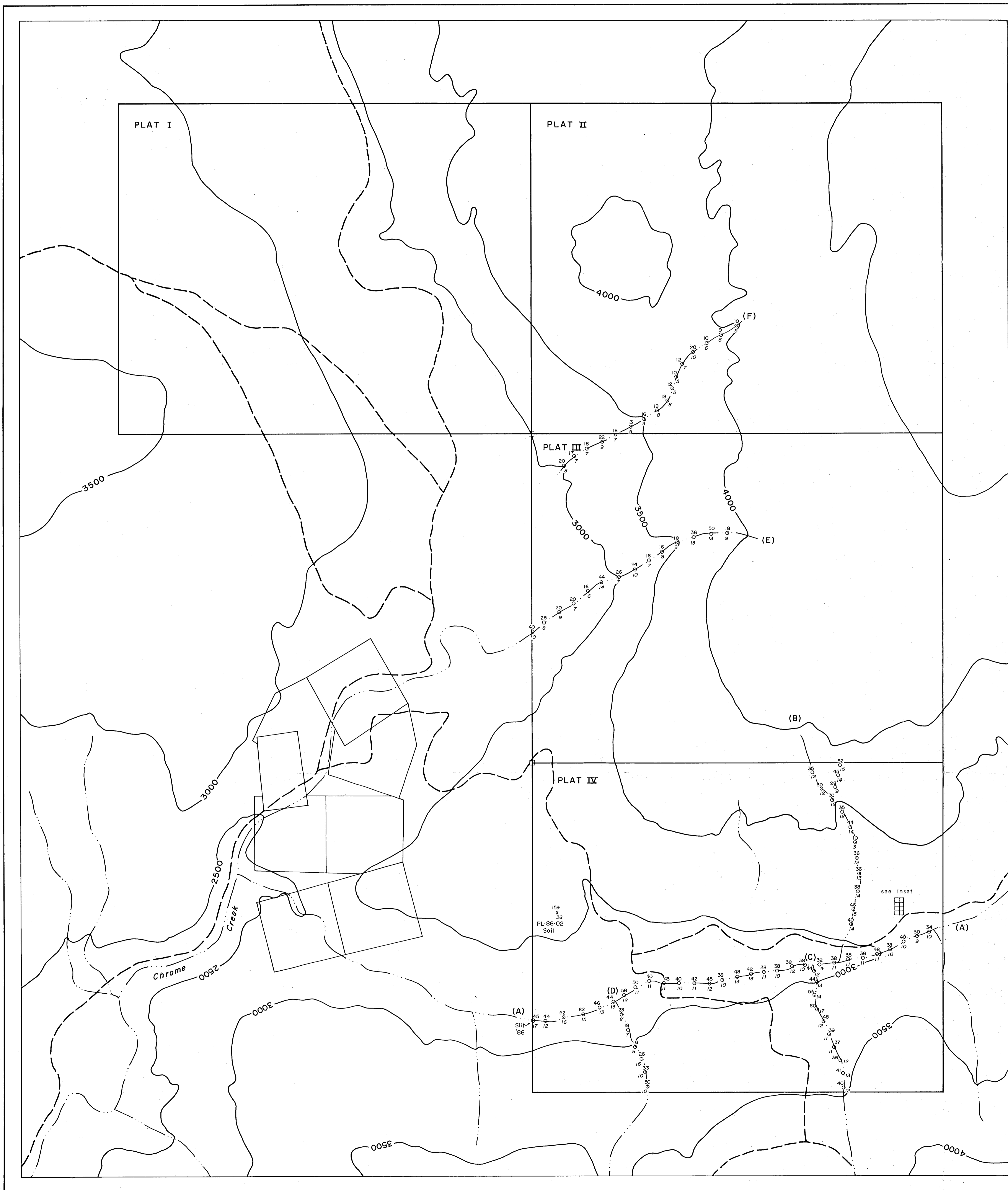
SCALE IN METRES

PLAT I - IV CLAIMS
KAMLOOPS M.D., B.C.

**CHROMIUM, PLATINUM and PALLADIUM
in Silt and Soil**

Scale: 1:10,000	By: F. Yacoub
Date: September 1987	N.T.S. 92-P/3 + 92-1/14 Map: 2

Ashworth Explorations Limited



LEGEND

- 40 Ni (ppm) Soil sample location, Aug. 87
- || 11 Co (ppm)
- Area of detailed soil sampling
- 48 Ni (ppm) Silt sample location, Aug. 87
- 13 Co (ppm)
- Property boundary (approximate)
- Legal Corner Post
- ~ Drainage
- - - Trails
- 3000 Contours (feet)

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

16,525

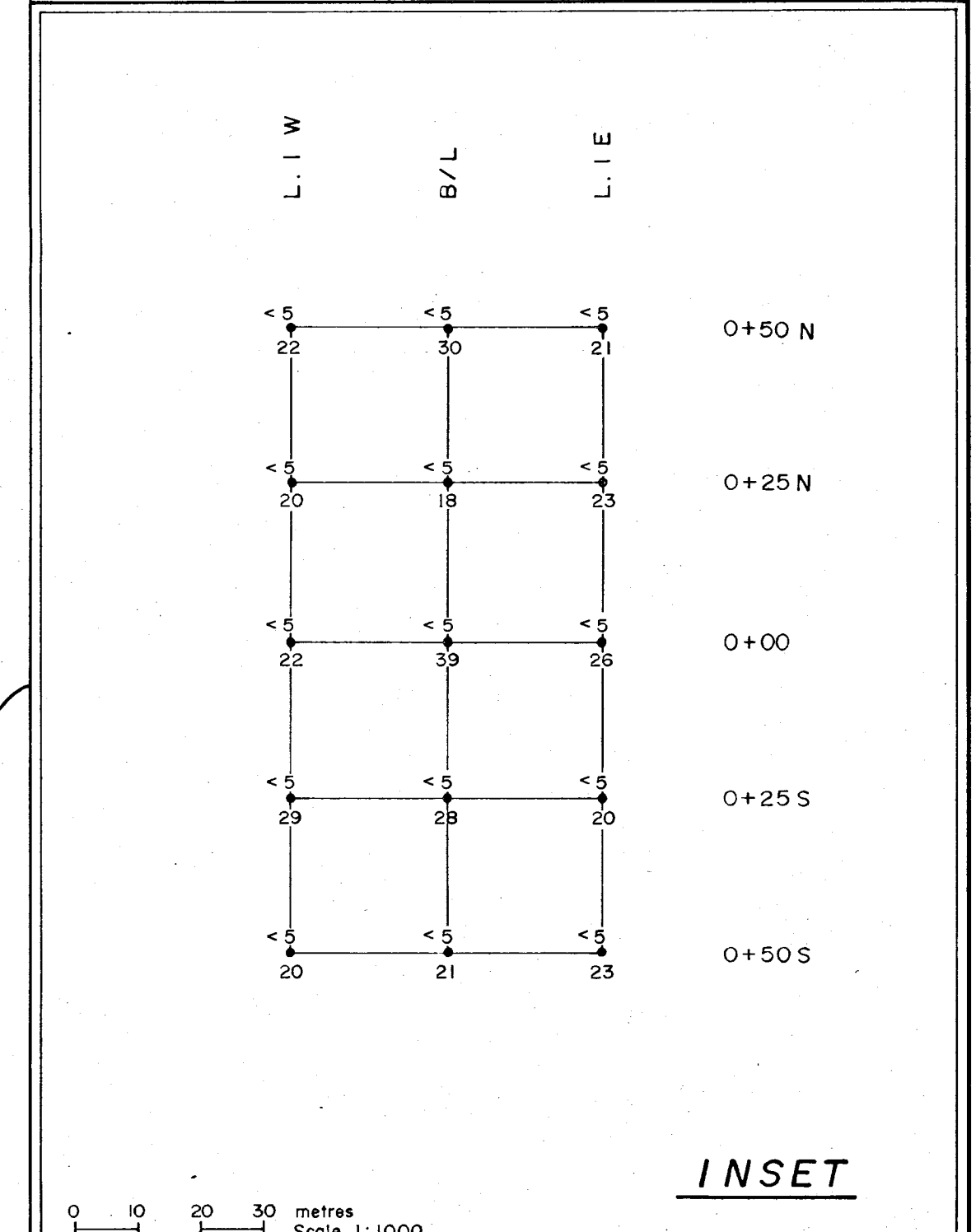
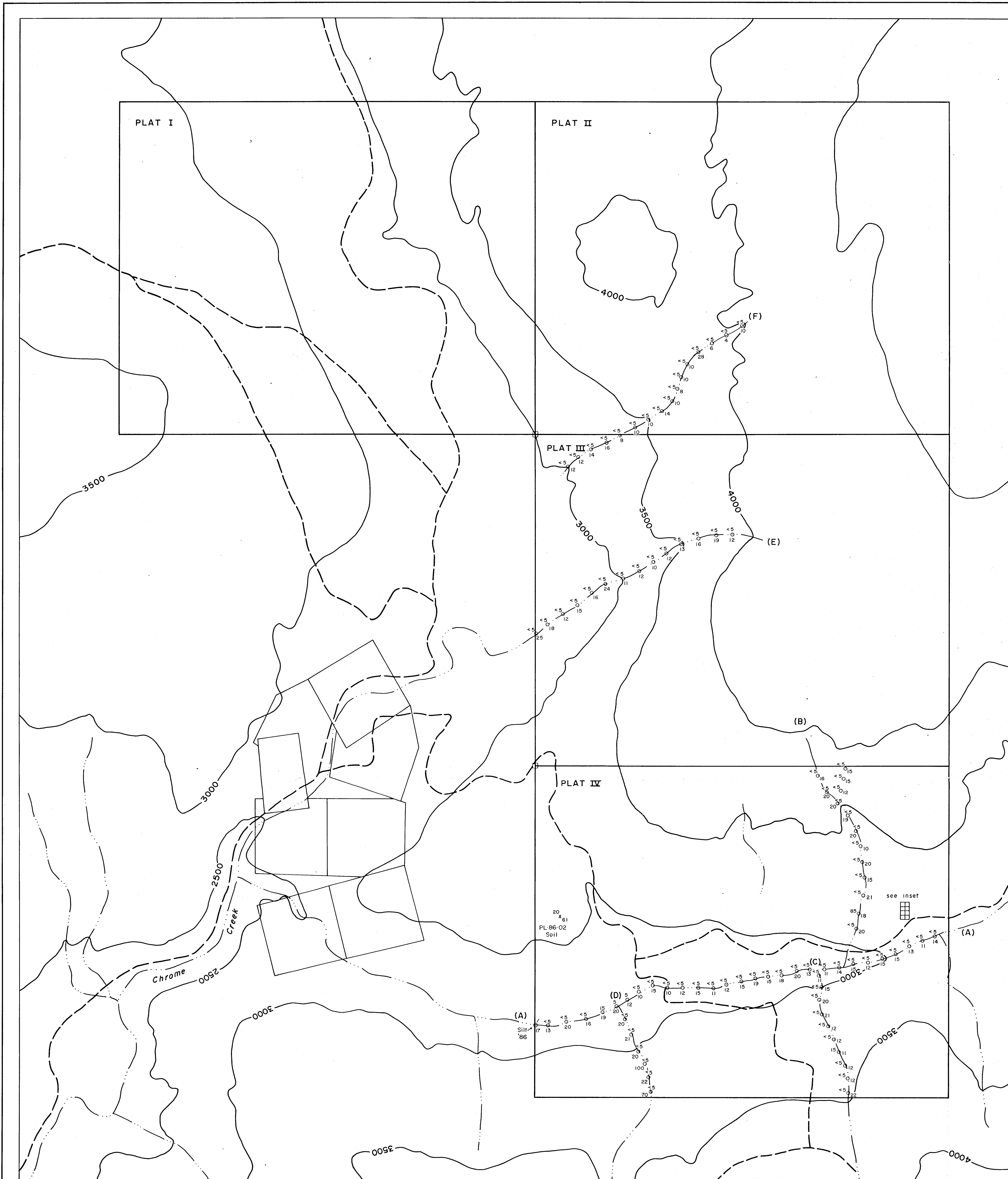
SCALE IN METRES

PLAT I - IV CLAIMS
KAMLOOPS, B.C.

NICKEL and COBALT
in Silt and Soil

Scale: 1:10,000	By: F. Yacoub
Date: September 1987	N.T.S. 92-P/3 + 92-1/14 Map: 3

Ashworth Explorations Limited



LEGEND

- <5 Au (ppb)
20 Cu (ppm) Soil sample location, Aug. 87
- Area of detailed soil sampling
- <5 Au (ppb)
12 Cu (ppm) Silt sample location, Aug. 87
- Property boundary (approximate)
- Legal Corner Post
- Drainage
- Trails
- Contours (feet)

3000 Contours (feet)

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

16,525

SCALE IN METRES

PLAT I - IV CLAIMS
KAMLOOPS M.D., B.C.

**GOLD and COPPER
in Silt and Soil**

Scale: 1:10,000	By: F. Yacoub
Date: September 1987	N.T.S. 92/P/3 + 92-1/14 Map: 4

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