

GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL AND DIAMOND DRILL
ASSESSMENT REPORT

Barham, Peak, Volcanic, Key and CM Claims
and
Barham and Peak Fractions

ATLIN MINING DISTRICT
104N 14W

Longitude 133°25'
Latitude 59°44'

Owned and Operated By:
PLACER DEVELOPMENT LIMITED

R.H. Pinsent

January, 1982

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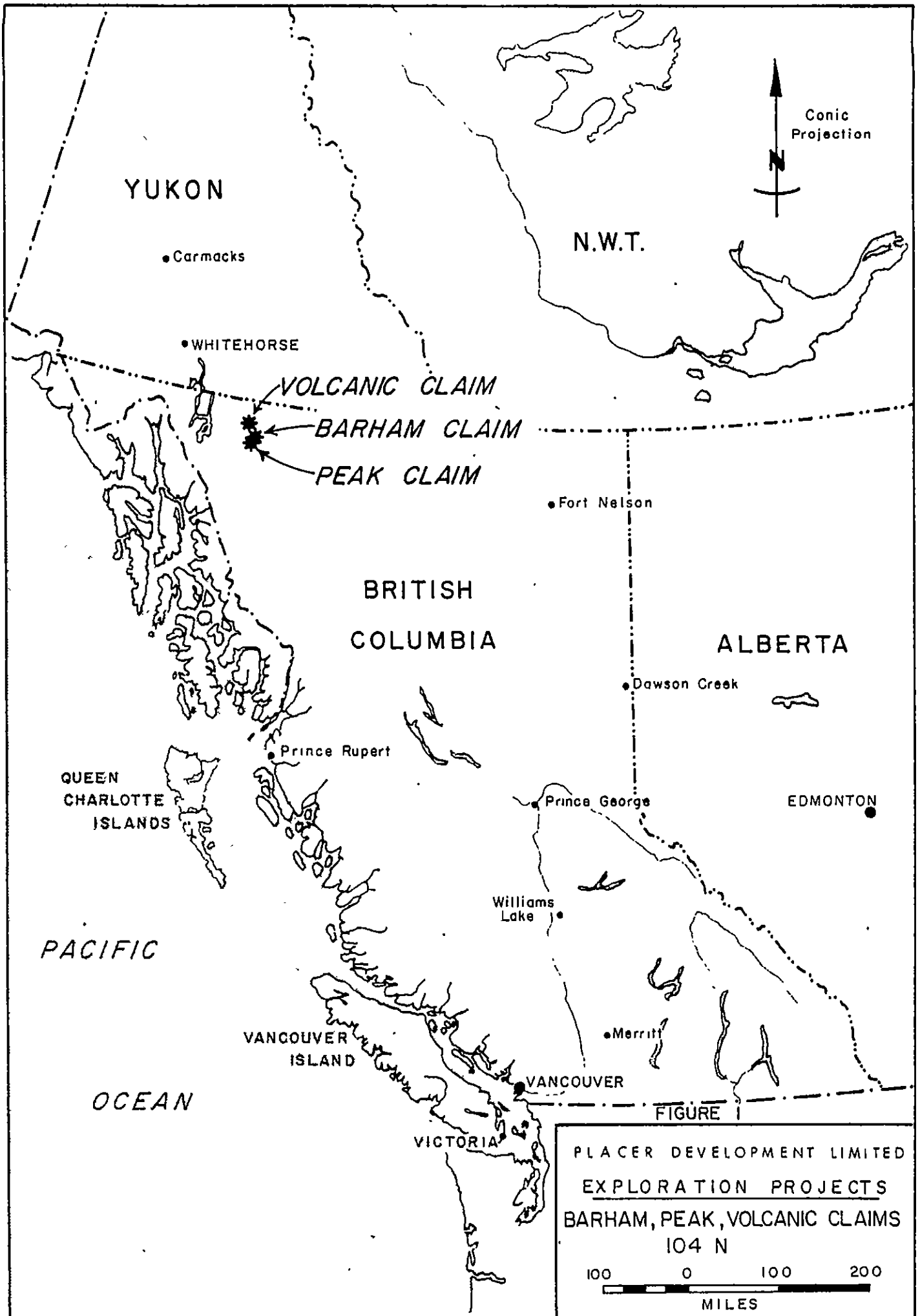
1.0 Summary

Placer Development Limited personnel constructed 23.8 km of compass and chain grid and conducted geological, geochemical and geophysical exploration programmes over the Barham, Peak, Volcanic, Key and C.M. Claims in the Volcanic and Barham Creek drainages, 25 km northeast of Atlin, between 8th and 26th August, 1981. Two N and BQ, wireline, diamond drill holes with a combined length of 338 m were subsequently drilled on the Volcanic Creek property between 12th and 22nd September.

The main, Volcanic Creek, grid was constructed over a known molybdenite occurrence in the floor of a cirque. It was constructed with an east-west orientation and a line spacing of 100 m. The cirque floor, which has a pronounced northerly slope, downstream toward the Fourth of July Creek drainage, is cut by a series of minor, subsidiary, cirques below the level of the main valley wall. Mineralization occurs on fractures and in veins cutting gossanous diorite exposed in the cliffs which form the lower, subsidiary, cirques. The sloping grid extends above and below a mineralized cliff.

A total of 367 "B" horizon soil samples, collected on the Volcanic Creek grid at 50 m intervals were analysed for Mo, Cu, Pb, Zn, Mn, Ni, Co, W, F, Au and Ag. The data show significant coherent anomalies for Mo and F. These anomalies are best developed along the east edge of the soil grid, over hornfelsed sediments and metavolcanics adjacent to the intrusion contact, and in a broad east-west band below the mineralized outcrop in the lower cirque. A total of 94 "B" horizon samples collected on the Key and C.M. claims in the Barham Creek drainage gave no coherent anomalies.

Geophysical data were collected at a 10 m spacing interval over both of the grids. A radem VLF survey defined the northerly trending intrusion contact and additional structures within the diorite. A magnetometer survey also showed the intrusion contact between weakly magnetic metasediment and moderately magnetic diorite. In addition, it reflected the presence of mafic volcanics in the



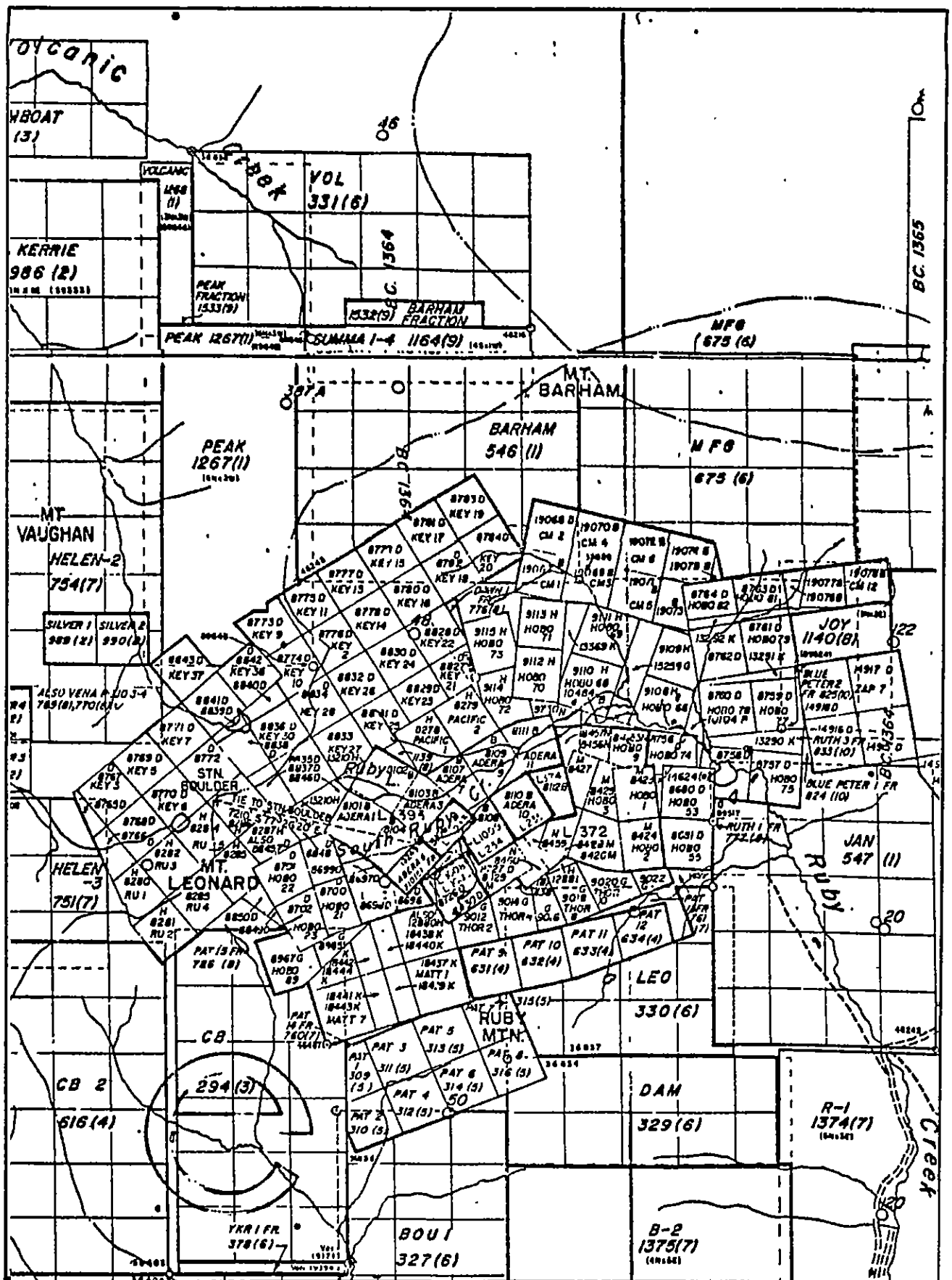


Figure 2. CLAIM LOCATION MAP IO4 N / 11 W, 14 W

SCALE 1: 50,000

metasediment and mafic dykes in the diorite. Highly erratic magnetic data over the gossanous diorite probably reflects the presence of pyrrhotite in the diorite below.

Two drill holes were located to test areas of known surface mineralization. Hole PDL 81-1 (170 m) was drilled to test the main showing, in a gully, at the east end of the lower cirque cliff section. Hole PDL 81-2 (168 m) was drilled in the diorite at the foot of the gossanous cliff. Neither hole encountered appreciable molybdenite mineralization although both encountered a weak quartz stockwork with appreciable pyrite and pyrrhotite.

The results of the exploration programme show that the gossanous diorite contains widespread, weak, molybdenite mineralization. No economic mineralization has so far been encountered on the property.

2.0 Introduction

2.1 Location and Access

The Barham, Peak and Volcanic claims (Figure 1) and the Barham and Peak fractions are located in the 104N/14W map sheet in the Atlin Mining District (Figure 2). The contiguous properties are located approximately 25 km northeast of Atlin at longitude $133^{\circ}25'N$ and latitude $59^{\circ}44'W$. The claims adjoin the Adanac Mining and Exploration Limited Key and C.M. claims. The Adanac Molybdenum deposit is located 4 km south of the Volcanic Creek showing.

Figure 3, which was prepared by Placer Development Limited by Underhill and Underhill Surveyors Limited, shows the location of the three principal claims at a scale of 1:10,000. It also shows the location of the Vol claim, owned by Cominco Limited. The boundary between the Barham and the Vol claim is inferred as it is governed by the location of an earlier and now superceded claim group, the "G.S.L. Claim Group", which had not been identified on the ground at the time of the survey. The boundary is taken up by the Barham Fraction. The Peak Fraction is located between the Peak and Volcanic Claims (Figure 3).

The claims cover a cirque at the head of the Volcanic Creek drainage into Fourth of July Creek and at the head of the Barham Creek drainage into Ruby Creek (Figure 4). The two drainages are separated by an east-west ridge at an elevation of approximately 5000' (1524 m). Barham Creek is accessible by road from Atlin, by means of the Adanac property four-wheel drive road system. The Volcanic Creek drainage is not road accessible at the elevation of the claims. A poor quality access road extends a short way up the creek from the Fourth of July Creek road. For practical purposes the Volcanic Creek drainage was accessed by helicopter from Atlin.

2.2 Property History and Ownership

The Volcanic Creek molybdenum prospect was originally held jointly by Canyon City Explorations Ltd. (Luck 1-48, Goodlife 1-8, 15-30) and Northern Empire Mines Ltd. (Mo 1-16) as a result of concurrent staking in 1968 and 1969. Archer Cathro and Associates Ltd. conducted an initial soil geochemical and prospecting programme over both properties in 1969 (Assessment Reports 2346 and 2446). The results indicated the presence of scattered molybdenum mineralization in float and outcrop at the head of the Volcanic Creek cirque. In addition, it outlined a sizable molybdenum soil anomaly in the floor of the cirque. Both property interests were optioned to Newmont Mining Corp. of Canada in 1970. A detailed study of the best mineral showing, the "Canyon zone", is described in Assessment Report 2519. Newmont attempted to assess the grade of mineralization exposed in the gully wall and ultimately concluded that the property did not warrant further action. The claims were allowed to lapse.

The showing was restaked as the G.S.L. Claim Group by J.R. Lerner in July 1973. The claims were kept in good standing but no work appears to have been done on the property. The claims lapsed in July 1978, after the Vol claim had been staked.

The Barham Claim (20 units) was staked over the same ground by J. Wallis in January, 1979, on behalf of Placer Development Limited. He also staked the Peak (18 units) and Volcanic (9 units) claims on behalf of the Company in December 1980. The Peak and Barham Fractions were staked by company personnel in September 1981, following the claim survey by Underhill and Underhill Surveyors Limited (Figure 3).

<u>Claim</u>	<u>No. of Units</u>	<u>Record No.</u>	<u>Anniversary</u>
Barham	20	546	January 17th
Peak	18	1267	January 12th
Volcanic	9	1268	January 12th
Barham Fraction	1	1532	September 17th
Peak Fraction	1	1533	September 17th

3.0 Work Performed

Placer Development Limited personnel conducted a geological, geochemical and geophysical exploration programme over the claim group between 8th and 26th August and two diamond drill holes were drilled on the Barham Claim between 12th and 22nd September.

A compass and chain grid was constructed over the head waters of the Volcanic Creek drainage. The 19.1 km grid was constructed with an east-west orientation and a line spacing of 100 m. A similar but smaller (4.7 km) grid was also constructed in the Barham Creek drainage.

Both grids were sampled at 50 m intervals and "B" horizon soil samples were shipped to the Placer Development Limited Laboratory in Vancouver. The -80 mesh fraction was subsequently analysed for Cu, Mo, Pb, Zn, Ni, Co, Mn, Ag, Au, W and F.

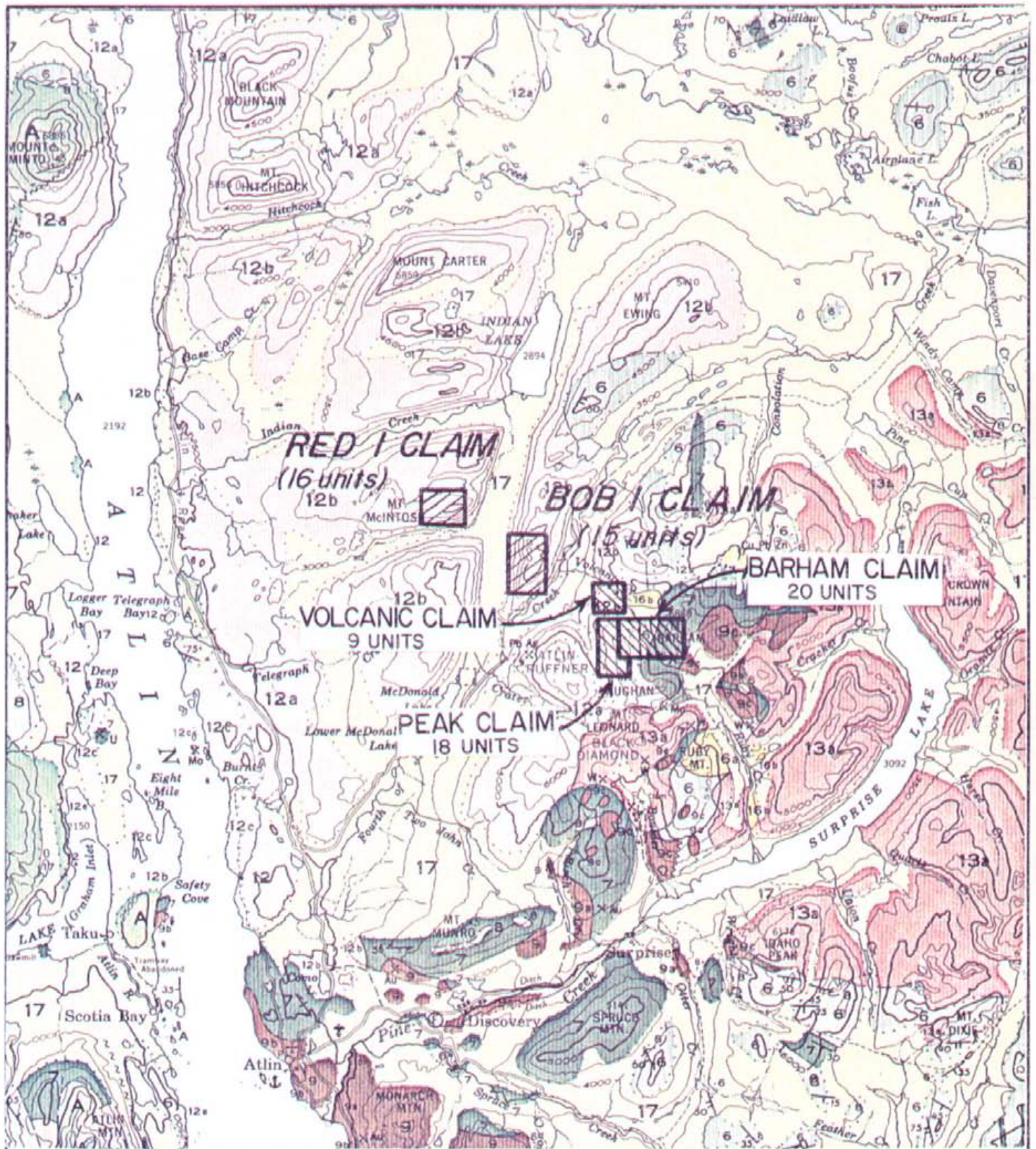
The grids were also covered by magnetometer and radem VLF geophysical surveys.

Two BQ-NQ diamond drill holes, totalling 338 m in combined depth, were drilled by Caron Diamond Drilling of Whitehorse. The hole locations were tied into the grid. *The core is stored at a small lake just north of DDH 81-1*

3.1 Geology

Figure 4 is a detail from the geological map for the Atlin Area by Aitken (1959). The figure shows that the property is underlain by two principal geological units: (a) Units 6-8 which are sediments and volcanics belonging to the Pennsylvanian to Permian Cache Creek Group and (b) Unit 12, granitic rocks belonging to the Jurassic, Fourth of July Batholith. Cretaceous quartz monzonites (Unit 13) host the Adanac molybdenum deposit to the south of the property. A tertiary to Quaternary, basaltic, volcanic cone (Unit 16) outcrops to the north of the Barham Claim, in the Volcanic Creek drainage.

The geology of the property and the principal elements of the topography are shown in Figure 5. The figures shows a contact between the Cache Creek Group and intrusive rocks of the Fourth of July Batholith. The contact, which appears to be igneous but tectonically reactivated, runs approximately north-south across the Barham and Volcanic Creek cirques. The Cache Creek country-rock consists of two main units: (a) mafic metavolcanic hornfels and (b) siliceous metasediment. Both contain bodies of chilled quartz-eye, aplite porphyry. The country-rock abuts a large body of weakly altered, medium to coarse grained and locally foliated and mineralized diorite. The Volcanic claim (Figure 5) is underlain by a relatively fresh coarse-grained quartz monzonite which forms the west wall of the Volcanic Creek Cirque. The contact between the quartz monzonite and the diorite is probably a fault which strikes NE-SW and dips steeply to the south.



LEGEND

PLEISTOCENE - RECENT

17 GLACIAL DRIFT, ALLUVIUM

TERTIARY AND QUATERNARY

16 OLIVINE BASALT, SCORIA

CRETACEOUS

13 ALASKITE, QUARTZ MONZONITE

JURASSIC (FOURTH OF JULY BATHOLITH)

12 GRANITIC ROCKS

PENNSYLVANIAN - PERMIAN

9 ULTRAMAFIC ROCKS
(CACHE CREEK GROUP)

6-8 SEDIMENTS AND VOLCANICS

FIGURE 4

GEOLOGICAL MAP ATLIN AREA
DETAIL FROM MAP 1082 A BY
AITKEN (1959)



OCT. 1981.

R.H.P. (J.S.)

There is considerable topographic relief in the Volcanic Creek Cirque. Survey point 496 which is located on the ridge between the Barham and Volcanic Creek Cirques, is 420 m above survey point 497, at the head of the Long Lake in the floor of the Volcanic Creek Cirque (Figure 5). The diorite (plagioclase 80%, hornblende 18%, and biotite 2%) in the back wall of the cirque is exposed at two levels, above and below the soil sample grid lines. The diorite exposed in the upper level back wall is largely unaltered. At a lower level it is more intensely fractured, more strongly altered, gossanous, and weakly mineralized. The diorite in the lower cliff shows variable alteration to biotite, chlorite and clay. The rock is commonly weakly deformed and granulated.

The lower level diorite is cut by sporadic veins of quartz and carbonate which are locally mineralized with molybdenite and minor pyrite, pyrrhotite, chalcopyrite and more rarely, sphalerite. The molybdenite occurs as coarse blebs and crystals bordering and within quartz veins, and as fine-grained dusting in some of the quartz veins. The best exposure of mineralized outcrop occurs in an approximately north-south oriented snow filled gully ("Canyon Zone") located to the east of the lower cliff section (600N, 400W, Figure 5). Mineralized veins (2-9 mm) and fractures are commonly oriented 120° , dip 75°W ; 20° - 40° dip 90° and less commonly 0° dip 20°W and 90° dip 90° . The fracture and gossan intensity is greatest along a north east-southwest axis defined by a ridge which separates the high level part of the grid located on the Peak claim from the main part on the Barham Claim. Iron post 974 (Figure 5) is located above a highly fractured, gossanous diorite cliff.

3.2 Soil Geochemistry

A total of 367 soil samples collected over the Volcanic Creek Grid were analyzed for Mo, Cu, Pb, Zn, Mn, Ni, Co, W, F, Au and Ag. The analytical methods employed and the limits of detection for each are given in Table I. The analytical data are given in Appendix II and computer contoured maps which illustrate trends in element concentrations are shown in Appendix III. The maps also show the location of survey points and the outlines of the Barham and Peak Claims.

TABLE I
STANDARD EXTRACTION AND ANALYTICAL METHODS

<u>Element</u>	<u>Units</u>	<u>WT(grams)</u>	<u>Extraction Procedure Attack Used</u>	<u>Time</u>	<u>Analytical Method</u>	<u>Detection Range</u>
Mo	ppm	0.5	C HClO ₄ /HNO ₃	4 hrs.	Atomic Absorption (A.A.)	1-1000
Cu	ppm	0.5	C HClO ₄ /HNO ₃	4 hrs.	Atomic Absorption	2-4000
Zn	ppm	0.5	C HClO ₄ /HNO ₃	4 hrs.	Atomic Absorption	2-3000
Pb	ppm	0.5	C HClO ₄ /HNO ₃	4 hrs.	A.A. Background Corrected	2-3000
Ni	ppm	0.5	C HClO ₄ /HNO ₃	4 hrs.	Atomic Absorption	2-2000
Co	ppm	0.5	C HClO ₄ /HNO ₃	4 hrs.	Atomic Absorption	2-2000
Mn	ppm	0.5	C HClO ₄ /HNO ₃	4 hrs.	Atomic Absorption	2-3000
W	ppm	1.0	C HF/HNO ₃ / HCl/H ₂ SO ₄	4 hrs.	A.A. Solvent Extraction	5-500
F	ppm	0.25	Na ₂ CO ₃ /KNO ₃ Fusion	30 min.	Specific Ion Electrode	40-4000
Ag	ppm	0.5	C HNO ₃	2 hrs.	A.A. Solvent Extraction	0.02-4.00
Au	ppm	3.0	C HBr/Br	12 hrs.	A.S. Solvent Extraction	0.02-4.00

TABLE 2

SUMMARY OF ANALYTICAL RESULTS

	<u>Maximum (ppm)</u>	<u>Minimum (ppm)</u>	<u>Mean (ppm)</u>	<u>Standard Deviation</u>
Mo	300	0.5	26.8	33.7
Cu	1050	26	221.9	196.6
Zn	500	24	109.7	64.8
Pb	380	5	30.9	33.7
Ni	161	12	31.8	16.2
Co	104	9	28.2	11.6
Ag	4.1	0.1	0.47	0.43
Au	0.66	0.01	0.014	0.038
W	224	2.5	20.0	22.6
F	4000	70	513	332
Mn	1440	2	335	156

Table 2 lists the maximum, minimum, mean and standard deviation of each element population. The soil cover over the grid is thought to be thin and locally derived.

The geochemical data show coherent and essentially coincident soil anomalies for Mo and F and either background or scattered, incoherent, anomalies for all the other elements.

Figures 6 and 7 in Appendix III show that Mo and F anomalies extend in a broad zone over the east half of the grid, particularly over the metasedimentary country-rock east of the diorite contact, and below the gossanous cliff. The absence of anomalies above the cliff is noticeable. Figure 8 shows that Cu is erratic in distribution and that there are no coherent anomalies. Figures 9 and 10 show that scattered high Pb and Ag values are found in the talus below both the upper and lower cirque walls. Similarly, scattered W highs occur below the low cirque wall (Figure 11). The plots for Ni and Co (Figures 12 and 13) show slight enrichment over the metasedimentary and metavolcanic country-rock east of the diorite contact. Figures 14 and 15 show essentially background levels of Zn and Mn with occasional, scattered, high values. The values for Au were below the level of detection and they were not plotted.

A total of 94 samples were collected over a small grid in the Barham Creek drainage (Figure 5). The samples were analyzed for the same elements and the results are listed in Appendix II. The analytical data compares well with that of the Volcanic Creek drainage and background levels appear to be the same. There are no sizeable anomalies but there are weak Mo, F, Ag, Mn and Zn anomalies associated with two geophysical structures crossing the grid.

TABLE 3

DIAMOND DRILL CORE ASSAY RESULTS

<u>Sample Number</u>	<u>Hole</u>	<u>Footage</u>	<u>% MoS₂</u>
66751	81-2	370-380'	0.02
66752	81-2	440-450'	0.03
66759	81-1	110-115'	0.08
66760	81-1	115-120'	0.07
66761	81-1	120-125'	0.15
66762	81-1	125-130'	0.02
66763	81-1	130-135'	0.10
66764	81-1	135-140'	0.06
66765	81-1	140-145'	0.01
66766	81-1	145-150'	0.02
66767	81-1	170-175'	0.48
66768	81-1	175-180'	0.04
66769	81-1	180-185'	0.01
66770	81-1	185-190'	0.02
66771	81-1	300-305'	0.02
66772	81-1	305-310'	0.05
66773	81-1	310-315'	0.12
66774	81-1	315-320'	0.01
66775	81-1	390-400'	0.11

3.3 Ground Geophysics

A total of 25.1 km of flagged line were surveyed with a proton precision magnetometer (Scintrex MP-2) and a VLF-EM receiver (Crome Radem). The survey was run on lines 100 m apart using a 10 m intersection spacing to allow for data enhancement techniques to be applied during interpretation.

Stacked profiles of the magnetics were generated at a scale of 1:50,000, and smoothed data are shown as dotted lines in Figure 16. The smoothing was accomplished with a 7 point Gaussian filter in order to minimize phase errors. Anomalies caused by sources further than 20 m from sensor do not suffer materially from this level of filtering.

VLF tilt angle data were plotted using a 1 cm = 10⁰ vertical scale on a 1:5000 base map. The data were "Fraser" filtered and dotted lines are used to represent the filtered information in Figure 17. Shaded areas in the figure indicate positive results. The data were also calculated using a second, wider, "Fraser" filter, but the results are not included as they duplicate the results given in the first study.

A preliminary analysis has indicated that it is not possible to make a direct correlation between the molybdenite mineralization observed and the geophysical response. There is, however, a very strong magnetic response, due to pyrrhotite to the SW of the area drilled.

3.3.1 Magnetic Results

The magnetics show a weak but consistent series of peaks to the east of the baseline. These anomalies are immediately west of a magnetic low which probably signifies the presence of Cache Creek Group sedimentary rock. The sediment, which is about 200 m wide in the south, wedges out at the north end

of the area surveyed. Weakly magnetic rocks east of the sediment wedge are correlatable from line to line. There appears to be a weak contact response to the east of the sediment. The same weak structure was picked up on the Barham Creek grid where a marked magnetic low is flanked by very weakly magnetic rocks. Flat magnetic results west of the baseline reflect the consistent nature of the diorite over much of the Volcanic Creek grid. Several diabase dikes were encountered while performing the survey. They appear to have very little or no magnetic expression. The reason for the anomaly on line 0 was not resolved.

3.3.2 VLF Results

VLF and magnetic data show very little direct correlation except over the intrusive-sedimentary contact, which is a regional fault with a steep dip to the east. The arcuate nature of the geophysical response reflects the intersection of the structure with the topography from line 12S to 10N. The presence of this contact is marked by strong "Fraser" filter anomalies. A weaker structure is suggested about 400 meters east but dies out towards line 3N. Two weak N20°E trending structures are evident between the base line and 7W on Line 8N. These two structures lie close to the mineralization found in the main gully exposure.

3.4 Diamond Drill Programme

Two diamond drill holes totalling 1,107' (337 m) were drilled to test known molybdenite mineralization (a) underlying the "Canyon Zone" and (b) below the lower cirque wall of gossanous diorite.

Hole PDL 81-1 was collared at grid 700N and 320W. The hole was drilled on a bearing due west and at a dip angle of 50°. The hole penetrated 557' (170 m) of weakly altered, foliated, diorite. The hole was drilled with an NQ bit to a depth of 98 m and with a BQ bit thereafter.

Hole PDL 81-2 was collared at grid 800N and 838W. The hole was drilled on a bearing due east and at a dip angle of 50° . The hole penetrated 550' (168 M) of similar diorite. The first 12.8 M of core was NQ diameter. There after the hole was reduced to BQ.

Detailed drill logs prepared by E.T. Kimura are located in Appendix IV. Both holes show evidence of a weak quartz and quartz-carbonate vein stockwork. The veins and fractures generally appear to contain only minor amounts of molybdenite with pyrrhotite and pyrite. Trace amounts of chalcopyrite and sphalerite were also observed in some veins.

Selected sections of mineralized drill core were shipped to Vancouver where they were analyzed for Mo. Table 3 lists sample numbers, footages and MoS_2 contents in percent.

4.0 Conclusions

The geological, geochemical, geophysical and diamond drill programme carried out in the Volcanic Creek drainage, due north of the Adanac Molybdenum Deposit, confirmed the presence of molybdenite mineralization in a weak quartz sealed stockwork in dioritic rocks belonging to the Fourth of July Batholith. The diorite which is exposed in the walls of low level cirque in the floor of the main drainage, is fractured and gossanous. The gossan appears to be derived from weak fracture controlled pyrrhotite mineralization. Two drill holes under the gossan stained cliff confirmed the existance of the weak stockwork but failed to show significant amounts of molybdenite mineralization.

Soil samples collected on a grid above and below the gossan stained cliff show geochemical anomalies for Mo and F. The anomalies extent in a broad zone west to east below the cliff and north to south over the contact between the diorite and the countryrock Cache Creek Group sediment. Geophysical data

suggests that the contact is tectonic. The fault has been traced in a north-south direction into the Barham Creek drainage. Several minor structures have been identified by geophysics in the diorite intrusion but they were not identified on the ground. These are commonly oriented N20°E.

The Volcanic Creek drainage is underlain by weakly altered and mineralized diorite, which is clearly part of a large hydrothermal system. No economic mineralization has so far been encountered on the property.



PLACER DEVELOPMENT LIMITED

5.0 Statement of Expenditures

COST STATEMENT Volcanic Creek Property 1981

Staff Salaries

E. Kimura (Senior Geologist), period Sept. 11th - 24th & Oct 13 - 14 & 16th. Total days = 17 @ \$305.00/day	= \$5,185.00
R. Pinsent (Project Geologist), period Aug. 6 - 22nd, 24 - 25th Total days = 17 @ \$245/day	= \$4,655.00
M. Allen (Field Assistant), period Aug. 6 - 22nd, 24 - 25th Total days = 19 @ \$95.00/day	= \$1,805.00
B. Mulvaney (Field Assistand), period Aug. 6 - 23rd Total days = 18 @ \$95.00/day	= \$1,710.00
B. Ott (Technician), Period Aug. 24 - 28, Sept. 1, 4 - 5th, 11 - 14, 17 & 19th; Total days = 14 @ \$185.00/day	= \$2,590.00
J. Thornton (Geophysicist) period Aug. 24 - 28th, Sept. 1, 4 - 5th Total days = 8 @ \$190.00/day	= \$1,520.00
K. Kanashiro (Cook) period Sept. 11 - 24th Total days = 14 @ \$170.00/day	= \$2,380.00
	<u>\$19,845.00</u>

Camp Operation

Camp Construction as per McCory invoice #4017	\$10,434.36
" " #4087	1,667.11
Groceries	784.00
	<u>\$12,885.47</u>

Analysis

Drill hold Sample Cost: 19 Samples Analyzed for (MoS₂ assay @ \$7.00, Geochem Pb, Zn & Cu @ 0.75 ea. Ag @ 2.50, W @ 4.00 F @ 3.75 and sample preparation @ \$2.85 = \$22.35/sample) Total is 19 x \$22.35 = \$424.65

Soil Samples: 367 Samples Geochem for (Mo, Cu, Zn, Pb, Ni, Co, & Mn @ \$0.75 ea. Ag @ @.50, Au @ 4.00, W @ 4.00, F @ 3.75 & Sample preparation @ \$1.40 = \$20.90/sample) Total is 367 x \$20.90 \$7,670.30

\$8,094.95

Drilling

Caron Diamond Drilling Invoice #1073		
covering DDH 81 -1 557' & DDH 81-2 550'	=	\$39,998.71
Core Boxes: Whalley & Son invoice #4050	=	\$292.20
		<u>\$40,290.91</u>

Helicopter

Keystone Helicopter (Hughes 500) Billing for August & Sept. for the Volcanic Creek project	\$4,811.00	
Company Helicopter (A Star GH-VHMS) Billing for September for Volcanic Creek project	\$16,858.00	
		<u>\$21,669.00</u>

Claim Survey

Underhill & Underhill Invoice #4622		<u>\$5,762.59</u>
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Vehicle Expense

Tilden Invoice #73228		<u>\$552.59</u>
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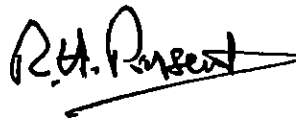
TOTAL		\$109,100.83
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6.0 Statement of Qualifications

I, Robert H. Pinsent of 108-2080 Maple Street, Vancouver, British Columbia (V6J 4P9), do hereby certify that:

1. I am a geologist employed by Placer Development Ltd., of 1200-1055 Dunsmuir Street, Vancouver, B.C. (V7X 1P1)
2. I am a geology graduate of the following Universities:
Aberdeen University, B. Sc., Hon., (1968)
University of Alberta, M. Sc. (1971)
Durham University, PhD. (1975)
3. I have been engaged in the practice of geology since graduation in 1968.
4. I have supervised and carried out the fieldwork, and interpreted the data from the exploration programme on the Barham, Peak, Volcanic, Key and CM Claims (Latitude $59^{\circ}44'$, Longitude $133^{\circ}25'$) in the Atlin Mining District.

Respectfully submitted,



R.H. Pinsent

RHP/cs

APPENDIX II

B. Horizon Soil Analyses

1. Volcanic Creek Grid
2. Barham Creek Grid

GLAB*DATA(1).P1128-1

		MO	CU	ZN	Pb	NI	CO	MN	AG	AU	W	F	1188
1													
2	00E	77	161	103	22	35	21	200	0.4	<0.02	14	460	VC 500N
3	50E	15	153	76	14	37	19	240	<0.2	<0.02	14	480	
4	100E	22	63	44	14	26	14	133	<0.2	<0.02	-17	NSS	
5	150E	12	26	43	10	22	10	130	<0.2	<0.02	11	NSS	
6	200E	52	93	88	27	37	20	230	<0.2	<0.02	15	460	
7	250E	30	83	94	15	43	21	192	<0.2	<0.02	13	580	
8	300E	51	188	130	40	43	24	290	0.2	<0.02	31	360	
9	350E	63	300	280	40	70	70	230	0.5	<0.02	22	380	
10	400E	50	79	76	15	36	21	370	0.2	<0.02	17	580	
11	400E*	50	80	75	13	29	19	370	0.2	<0.02	16	760	
12	00E	16	66	73	17	30	17	200	0.2	<0.02	46	600	VC1000N
13	50E	27	104	57	11	24	18	158	0.4	<0.02	46	520	
14	100E	31	177	147	34	52	35	340	0.5	<0.02	25		
15	200E	22	295	164	56	44	28	284	0.9	<0.02	16	NSS	
16	00E	18	98	82	20	33	17	163	0.4	<0.02	16	520	VC 900N
17	50E	14	93	92	25	35	18	172	0.4	<0.02	14	380	
18	100E	24	77	96	20	33	21	210	0.2	<0.02	20	400	
19	150E	43	143	122	25	50	26	240	0.4	<0.02	49	330	
20	200E	22	234	166	52	47	31	480	0.8	<0.02	15	700	
21	280W	5	401	112	16	28	44	390	0.3	<0.02	NSS		VC 100S
22	900W	3	198	86	14	23	30	330	0.5	<0.02	18	420	
23	850W	2	154	76	24	21	21	217	0.4	<0.02	16	240	
24	850W	3	216	100	29	26	29	320	0.9	<0.02	14	300	
25	700W	5	690	253	62	34	61	850	1.6	<0.02	12	260	
26	640W	3	162	144	39	20	24	320	0.6	<0.02	14	260	
27	600W	5	660	215	45	30	49	580	0.8	<0.02	17	320	
28	1350W	4	510	144	24	26	39	530	1.0	<0.02	18	340	VC 200N
29	1400W	3	386	127	26	26	40	510	1.0	0.03	20	400	
30	1400W*	2	360	124	25	27	39	480	1.0	0.02	18	360	
31	1450W	2	212	101	16	19	28	330	0.3	<0.02	11	340	
32	1500W	1	98	85	17	22	21	330	0.5	<0.02	7	300	
33	1550W	1	83	119	25	22	25	390	0.3	<0.02	5	320	
34	1600W	2	73	105	22	22	23	370	0.3	<0.02	6	300	
35	1650W	1	98	106	16	30	26	460	0.4	<0.02	5	300	
36	1700W	1	67	98	12	23	22	330	<0.2	<0.02	5	300	
37	1750W	1	93	114	14	21	22	290	0.3	<0.02	7	280	
38	1800W	<1	60	97	14	20	19	310	0.3	<0.02	5	320	
39	1850W	1	29	40	11	12	12	330	0.3	<0.02	NSS	NSS	
40	1900W	1	43	69	14	15	20	390	<0.2	<0.02	<5	220	
41	50W	46	271	131	40	39	32	340	0.4	<0.02	33	280	VC 300N
42	100W	18	220	97	16	36	25	300	0.3	<0.02	20	220	
43	150W	30	238	118	33	36	37	365	0.3	<0.02	27	220	
44	200W	21	256	116	26	42	41	490	0.4	<0.02	43	200	
45	250W	13	152	76	14	44	37	330	0.3	<0.02	40	220	
46	300W	11	80	70	13	26	25	240	0.4	<0.02	28	200	
47	350W	6	104	77	12	27	31	330	<0.2	<0.02	24	220	
48	400W	14	215	103	15	45	39	400	0.2	<0.02	20	320	
49	450W	6	147	106	22	28	29	330	0.3	<0.02	13	280	
50	500W	57	108	84	37	16	26	450	<0.2	<0.02	15	260	
51	550W	5	48	58	12	20	16	240	<0.2	<0.02	13	200	
52	600W	5	47	52	7	22	16	180	<0.2	<0.02	14	176	
53	650W	4	62	51	11	20	17	230	0.2	<0.02	13	186	
54	700W	4	75	54	12	18	16	330	0.4	<0.02	23	280	
55	850W	5	104	55	14	16	17	171	0.2	<0.02	16	280	
56	900W	2	129	66	13	16	21	280	0.2	<0.02	14	340	

57	050W	4	210	60	11	19	21	190	0.4	<0.02	13	260	
58	050W*	4	212	65	12	17	20	180	0.5	<0.02	16	240	
59	1000W	5	353	59	11	20	28	190	0.3	<0.02	11	360	
60	1050W	3	724	137	25	23	93	2450	0.8	<0.02	15	260	
61	1100W	4	790	145	30	31	49	450	0.6	<0.02	45	280	
62	1150W	5	880	138	24	30	42	330	0.8	<0.02	27	340	
63	1200W	6	590	124	28	23	35	330	0.7	<0.02	27	320	
64	1250W	5	590	125	29	27	48	570	1.4	<0.02	14	400	
65	1300W	3	205	66	17	20	27	240	0.5	<0.02	45	220	
66	1350W	3	182	66	17	16	25	270	0.5	<0.02	16	340	
67	1400W	3	226	66	22	20	27	380	0.3	<0.02	NSS	340	
68	1400W*	7	221	67	22	21	28	380	0.3	NSS	NSS	340	
69	1500W	2	80	111	21	20	23	330	0.2	<0.02	5	240	
70	1550W	2	100	98	16	22	23	340	0.3	0.02	5	280	
71	1600W	2	137	99	18	29	26	340	<0.2	<0.02	20	400	
72	1650W	2	92	100	20	25	25	340	<0.2	<0.02	18	420	
73	1700W	2	93	147	21	22	23	290	0.2	<0.02	5	400	
74	1700W	1	70	106	15	20	24	310	0.3	<0.02	<5	280	
75	1800W	2	67	78	14	19	23	290	0.4	<0.02	<5	360	
76	1850W	1	43	64	12	18	17	206	<0.2	<0.02	<5	340	
77	1900W	1	49	75	16	17	18	270	0.2	<0.02	<5	320	
78	1950W	1	54	73	16	17	18	310	<0.2	<0.02	<5	260	
79	2000W	1	60	220	42	16	32	3000	0.5	<0.02	<5	520	
80	1150W	3	500	110	15	32	50	270	0.3	0.03	49	460	VC 00
81	1700W	4	210	102	20	30	35	303	0.7	<0.02	17	360	
82	370W	8	720	280	59	29	45	380	1.8	<0.02	12	460	VC 100W
83	600W	5	500	175	45	26	43	480	1.6	<0.02	14	460	
84	50E	8	890	303	330	50	46	490	4.1	<0.02	12	500	VC 00
85	100E	13	324	109	28	72	30	360	1.0	0.03	11	420	
86	150E	21	540	147	25	80	34	420	0.7	0.02	*	800	
87	250E	37	500	93	27	60	26	330	0.6	0.06	7	760	
88	250E*	38	480	96	26	57	28	320	0.7	0.06	8	660	
89	300E	47	101	51	14	31	17	130	<0.2	<0.02	14	460	
90	350E	38	108	50	11	35	22	151	<0.2	<0.02	18	340	
91	400E	45	91	59	12	26	20	480	<0.2	0.08	12	620	
92	450E	76	530	99	36	60	31	370	1.1	0.66	NSS	420	
93	500E	102	253	96	22	52	38	410	0.6	0.13	21	600	
94	550E	74	203	110	34	53	31	320	0.2	<0.02	30	640	
95	600E	107	570	196	44	92	51	440	0.8	<0.02	30	1160	
96	650E	101	450	215	50	89	53	650	0.3	0.05	18	580	
97	700E	18	105	101	20	42	24	310	0.3	<0.02	12	480	
98	750E	26	203	159	59	70	37	440	0.5	0.04	17	420	
99	50E	19	275	203	34	53	42	1440	0.7	<0.02	10	700	VC 100W
100	100E	17	330	107	20	67	27	300	0.5	<0.02	10	680	
101	150E	30	146	64	15	40	20	240	<0.2	<0.02	9	720	
102	200E	22	89	52	12	30	15	190	<0.2	<0.02	9	840	
103	250E	96	222	58	17	36	18	208	0.3	<0.02	14	680	
104	300E	31	86	54	13	40	22	212	<0.2	<0.02	0	780	
105	350E	28	101	79	13	41	27	190	<0.2	0.03	32	340	
106	350E*	27	105	79	15	42	26	183	<0.2	0.02	37	340	
107	400E	15	117	100	41	44	20	200	<0.2	<0.02	8	620	
108	450E	53	285	97	16	55	36	360	<0.2	<0.02	23	920	
109	500E	100	356	166	43	75	45	470	0.4	<0.02	28	1040	
110	550E	25	102	149	31	66	35	320	0.7	<0.02	38	620	
111	650E	14	45	65	17	35	19	175	<0.2	<0.02	10	660	
112	700E	18	151	126	44	63	33	350	0.5	<0.02	12	520	
113	50E	22	301	126	51	45	28	360	1.2	<0.02	9	520	VC 200W

114	100E	26	303	101	26	54	27	320	0.5	<0.02	13	580
115	150E	24	104	41	10	26	13	168	0.2	<0.02	7	440
116	200E	33	124	50	0	32	18	172	0.2	<0.02	7	800
117	250E	16	41	45	8	27	16	143	0.2	<0.02	9	700
118	300E	36	141	62	14	37	21	174	<0.2	<0.02	18	880
119	350E	43	106	56	15	29	20	143	0.7	<0.02	19	920
120	400E	74	170	85	17	26	23	248	<0.2	<0.02	5	1560
121	450E	27	155	88	23	44	25	272	0.2	<0.02	21	800
122	500E	55	113	90	17	38	22	173	0.2	<0.02	16	640
123	550E	28	153	114	21	53	31	290	<0.2	<0.02	14	880
124	500E	35	590	320	0.2	59	42	680	1.3	<0.02	11	960
125	50E	22	84	64	13	29	17	185	0.2	<0.02	7	380
126	100E	40	76	46	8	27	12	188	0.2	<0.02	9	1040
127	150E	16	56	41	8	24	12	140	<0.2	<0.02	6	720
128	200E	13	41	44	7	27	15	139	<0.2	<0.02	5	760
129	250E	37	117	68	13	37	21	206	<0.2	<0.02	15	960
130	300E	41	81	87	19	31	21	250	<0.2	<0.02	32	1040
131	350E	53	214	81	20	36	24	208	0.3	<0.02	35	1080
132	400E	86	116	70	13	31	24	290	<0.2	<0.02	14	1280
133	450E	50	440	260	24	115	104	860	0.3	<0.02	7	1400
134	450E*	49	440	260	26	112	102	800	0.3	<0.02	4	1280
135	500E	23	79	66	14	36	21	175	<0.2	<0.02	8	1080
136	50E	43	257	164	44	39	26	360	0.4	<0.02	17	1000
137	50E	72	113	68	20	36	21	180	0.3	<0.02	14	780
138	100E	15	57	48	12	26	15	166	<0.2	<0.02	12	1000
139	150E	14	49	42	11	25	12	225	0.2	<0.02	10	960
140	200E	17	73	52	16	29	13	173	<0.2	<0.02	7	1000
141	240E	117	500	300	68	140	42	460	0.4	<0.02	16	>4000
142	300E	24	132	71	36	37	23	182	0.3	0.08	20	960
143	300E*	26	134	73	28	38	25	181	0.3	0.07	22	920
144	350E	75	702	155	33	53	26	270	0.4	<0.02	13	860
145	400E	15	137	120	23	60	32	240	0.3	0.09	12	860
146	450E	33	92	93	22	43	25	230	0.3	<0.02	14	1040
147	500E	34	67	56	31	28	20	147	0.3	<0.02	12	1480
148	50W	43	116	82	32	27	19	260	0.4	<0.02	29	1160
149	100W	127	218	128	49	37	28	280	1.3	<0.02	35	1220
150	150W	21	44	50	16	23	18	193	<0.2	<0.02	18	800
151	200W	25	83	68	19	32	18	173	0.3	<0.02	36	860
152	250W	20	74	71	19	29	17	193	0.5	<0.02	14	940
153	300W	68	231	160	21	24	35	460	0.7	<0.02	48	1360
154	350W	88	271	127	32	25	38	530	0.8	<0.02	42	900
155	400W	200	740	152	97	29	36	560	2.3	<0.02	51	900
156	450W	92	352	157	37	27	37	580	0.8	<0.02	83	860
157	550W	31	112	107	17	26	21	170	0.2	<0.02	25	600
158	600W	32	124	98	22	34	22	180	0.2	<0.02	21	680
159	650W	16	125	72	16	30	20	230	0.2	<0.02	14	680
160	750W	47	930	430	71	49	51	550	1.9	0.02	17	560
161	800W	13	650	173	67	23	47	700	1.7	<0.02	61	720
162	50W	18	92	77	26	35	20	270	0.2	<0.02	27	1240
163	100W	23	60	45	20	23	15	160	0.2	<0.02	14	840
164	150W	23	91	85	19	29	17	230	<0.2	<0.02	18	880
165	200W	45	99	99	23	26	19	250	0.5	<0.02	24	860
166	250W	79	166	107	21	25	19	250	0.8	<0.02	27	840
167	450W	27	340	180	45	30	76	500	1.2	<0.02	20	660
168	500W	21	82	90	16	22	16	210	0.3	<0.02	26	840
169	550W	51	168	125	50	34	24	290	0.8	<0.02	25	1280
170	600W	21	104	64	31	24	19	181	0.6	<0.02	22	800

VC 300N

VC 400N

VC 700N

VC 800N

171	450W	0	52	61	19	27	16	151	0.3	<0.02	5	780
172	650W*	8	54	57	20	24	16	145	0.7	<0.02	4	780
173	700W	26	69	60	17	23	18	145	0.5	<0.02	22	680
174	750W	13	38	46	16	34	17	183	0.5	<0.02	<5	1100
175	800W	35	42	45	21	17	14	154	0.3	<0.02	20	840
176	830W	94	640	275	120	29	57	960	0.7	<0.02	15	760
177	850W	27	295	212	48	37	47	620	0.7	<0.02	22	860
178	900W	35	91	80	54	20	16	310	0.8	<0.02	75	460
179	1010W	200	720	198	410	28	27	480	0.5	<0.02	224	920
180	1050W	116	920	230	650	32	36	400	2.3	<0.02	201	1040
181	1100W	170	490	128	240	32	34	440	1.0	<0.02	221	1000
182	1100W*	180	490	129	240	32	36	440	2.3	<0.02	217	1040
183	1150W	29	600	153	45	29	39	440	1.4	<0.02	74	740
184	1200W	28	1050	178	58	31	36	440	1.2	<0.02	21	700
185	1240W	24	690	245	73	34	55	780	1.3	<0.02	16	700
186	1300W	5	323	108	20	21	36	390	0.9	<0.02	7	520
187	1350W	2	250	132	20	16	23	340	0.6	<0.02	<5	600
188	1400W	2	136	98	14	20	25	350	0.5	<0.02	<5	540
189	00E	20	54	50	16	23	14	164	0.7	<0.02	28	840
190	50E	16	87	65	16	31	18	155	0.6	<0.02	12	700
191	100E	15	60	81	18	23	18	220	0.5	<0.02	<5	900
192	150E	38	265	260	45	55	29	350	<0.2	0.03	18	600
193	200E	32	162	95	35	42	22	198	<0.2	0.03	14	740
194	300E	16	242	130	43	54	25	290	0.5	0.03	5	740
195	00E	50	73	65	26	27	18	169	<0.2	<0.02	44	580
196	50E	17	85	92	24	35	22	510	<0.2	<0.02	9	720
197	100E	12	46	70	16	27	16	161	<0.2	<0.02	8	540
198	150E	21	100	84	24	48	26	200	<0.2	<0.02	15	660
199	200E	25	148	115	29	45	26	250	<0.2	<0.02	16	780
200	250E	27	370	213	49	63	30	290	0.2	<0.02	11	640
201	250E*	26	390	216	51	63	31	290	0.4	<0.02	8	
202	00E	36	146	80	25	37	21	250	0.5	<0.02	12	300
203	50E	20	101	68	38	36	21	169	0.5	<0.02	5	460
204	100E	25	106	78	20	36	19	220	0.5	<0.02	7	300
205	150E	35	135	98	36	49	23	270	0.2	<0.02	7	360
206	200E	300	1030	500	141	161	51	530	0.6	<0.02	20	680
207	250E	180	400	256	49	100	35	360	0.5	<0.02	17	520
208	300E	44	224	182	38	59	31	550	0.6	<0.02	14	720
209	350E	25	420	250	47	69	35	620	1.0	<0.02	15	500
210	350E*	22	420	250	47	70	42	630	1.0	0.03	13	480
211	00W	27	257	91	16	37	28	310	0.5	<0.02	20	440
212	100W	15	600	163	39	44	49	540	0.9	<0.02	17	360
213	150W	7	450	300	75	42	46	510	1.2	<0.02	24	300
214	200W	0	420	210	78	35	45	390	1.4	<0.02	11	400
215	250W	15	500	230	113	42	46	500	1.3	<0.02	14	420
216	300W	9	530	112	23	35	44	375	1.1	<0.02	12	560
217	400W	8	680	260	84	26	48	500	1.7	<0.02	16	300
218	460W	5	460	169	26	32	42	510	1.0	<0.02	10	280
219	500W	4	240	105	19	27	31	300	0.5	<0.02	14	140
220	550W	0	560	201	60	30	46	560	1.1	<0.02	11	250
221	600W	5	400	159	42	25	32	310	1.0	<0.02	8	250
222	650W	6	252	112	30	36	36	350	0.9	<0.02	9	100
223	700W	3	116	66	19	23	23	300	0.5	<0.02	9	320
224	750W	2	93	67	19	16	20	470	0.3	<0.02	7	280
225	800W	3	95	60	16	17	17	290	0.3	<0.02	5	260
226	850W	3	121	61	14	21	23	280	0.2	<0.02	11	290
227	900W	2	145	76	12	24	25	280	0.4	<0.02	9	220

VC 700N

VC 800N

VC 600N

VC 00

228	950W	3	270	77	13	23	30	340	0.6	0.27	14	340
229	1000W	6	540	96	16	33	39	790	0.7	0.03	10	500
230	1050W	3	283	99	17	37	41	470	1.0	<0.02	<5	240
231	1100W	4	870	106	22	38	45	290	1.0	0.05	18	200
232	00W	15	470	121	40	33	33	360	1.3	<0.02	19	250
233	50W	13	341	119	31	47	39	480	1.0	<0.02	28	260
234	100W	13	355	120	33	36	34	360	1.0	0.03	35	440
235	150W	17	356	215	46	35	43	470	0.9	<0.02	33	400
236	200W	13	238	148	43	36	35	370	0.8	<0.02	27	320
237	250W	13	328	217	92	37	43	530	0.8	<0.02	23	440
238	300W	5	99	63	18	19	24	250	0.5	<0.02	6	330
239	300W+	5	100	63	14	19	21	250	0.3	<0.02	5	320
240	350W	10	710	210	53	30	49	550	1.6	<0.02	9	370
241	400W	6	140	87	19	31	31	290	0.7	<0.02	<5	300
242	450W	3	126	96	15	20	23	290	0.5	<0.02	<5	400
243	500W	2	157	104	24	30	31	460	0.6	<0.02	8	320
244	550W	1	78	61	13	21	20	240	0.6	<0.02	9	188
245	600W	2	106	92	17	24	21	360	0.6	<0.02	<5	210
246	650W	2	74	51	15	22	18	183	0.5	<0.02	<5	180
247	700W	3	44	42	12	22	17	156	0.3	<0.02	<5	192
248	750W	2	79	84	18	32	21	330	0.6	<0.02	7	250
249	750W+	2	77	83	19	31	23	330	0.6	<0.02	8	230
250	800W	5	159	114	23	21	27	330	0.6	<0.02	13	350
251	850W	3	115	58	12	15	24	790	0.2	<0.02	15	280
252	900W	3	149	66	14	19	23	310	0.5	<0.02	20	320
253	950W	3	365	93	14	26	34	280	0.5	<0.02	15	320
254	1000W	5	450	75	17	23	36	250	0.5	<0.02	23	380
255	1050W	3	219	61	12	28	26	270	0.3	<0.02	8	280
256	1100W	2	146	56	12	23	23	250	0.2	<0.02	8	240
257	00W	16	490	145	51	36	38	500	0.7	<0.02	15	600
258	50W	27	301	135	24	48	33	390	0.5	<0.02	15	800
259	100W	81	560	192	49	32	42	550	1.2	<0.02	80	1000
260	150W	13	237	181	44	31	37	420	0.4	<0.02	16	920
261	200W	10	146	109	24	29	36	430	0.3	<0.02	16	860
262	250W	7	39	55	21	26	36	860	0.2	<0.02	7	240
263	350W	5	148	107	17	41	32	400	<0.2	<0.02	18	700
264	400W	12	730	290	51	32	52	530	1.2	<0.02	18	640
265	450W	4	185	116	25	30	34	460	0.3	<0.02	10	440
266	500W	3	187	96	21	24	27	330	0.3	<0.02	8	460
267	550W	2	67	58	13	21	18	210	<0.2	<0.02	<5	360
268	600W	1	50	60	5	20	15	164	<0.2	<0.02	<5	196
269	650W	7	70	56	9	17	18	178	<0.2	<0.02	32	260
270	700W	3	123	76	15	28	24	290	<0.2	<0.02	15	260
271	750W	3	99	79	17	22	22	250	<0.2	<0.02	19	240
272	800W	2	54	46	10	19	17	240	<0.2	<0.02	<5	230
273	850W	1	143	74	14	19	21	390	<0.2	<0.02	9	220
274	900W	2	168	79	12	23	26	290	<0.2	<0.02	20	440
275	950W	1	301	90	10	24	31	300	<0.2	<0.02	31	520
276	1000W	1	190	60	9	24	24	230	<0.2	<0.02	32	320
277	1050W	6	550	68	11	27	27	245	0.6	<0.02	28	380
278	50W	41	100	97	26	23	19	250	0.4	<0.02	33	520
279	100W	27	76	71	19	24	17	200	0.3	<0.02	52	460
280	150W	36	157	97	23	21	18	240	0.7	<0.02	41	520
281	200W	21	94	80	16	36	21	230	0.4	<0.02	15	640
282	250W	29	92	75	12	35	22	270	0.3	<0.02	28	900
283	300W	26	90	72	18	25	19	250	0.5	<0.02	23	780
284	350W	15	50	52	16	23	14	360	0.2	<0.02	10	600

VC 100W

VC 200W

VC 900W

285	350W*	13	50	49	6	23	14	340	<0.2	<0.02	7	540
286	400W	34	34	76	9	14	10	156	0.3	<0.02	5	340
287	450W	35	82	100	21	23	23	390	<0.2	<0.02	15	380
288	500W	41	236	117	49	31	34	420	0.6	<0.02	50	580
289	550W	41	198	90	44	21	30	380	0.6	<0.02	35	1020
290	600W	34	124	64	38	23	24	270	0.4	<0.02	36	660
291	650W	44	146	65	32	19	23	310	0.3	<0.02	45	700
292	700W	41	88	82	40	34	23	270	0.2	<0.02	20	620
293	750W	9	26	24	6	13	9	65	<0.2	<0.02	5	220
294	800W	22	86	54	13	30	20	145	0.7	<0.02	18	500
295	850W*	22	83	55	14	30	21	153	0.5	<0.02	20	500
296	900W	34	41	48	31	23	17	300	0.3	<0.02	27	460
297	950W	29	192	130	55	30	28	350	0.7	<0.02	33	600
298	950W	48	260	175	84	35	36	490	0.3	<0.02	52	680
299	1000W	59	810	420	120	37	67	740	0.2	<0.02	20	540
300	1070W	110	670	260	360	37	51	690	0.5	<0.02	65	640
301	1150W	6	450	134	20	25	36	360	0.5	<0.02	10	320
302	1200W	2	320	126	27	20	34	390	0.6	<0.02	5	300
303	1250W	<1	176	123	23	18	27	380	0.4	<0.02	<5	340
304	1300W	<1	159	108	17	18	24	300	<0.2	0.03	<5	240
305	1350W	7	108	111	15	20	25	310	0.2	<0.02	15	220
306	50W	37	152	81	27	29	20	350	0.2	<0.02	17	260
307	100W	10	33	50	14	25	15	138	<0.2	<0.02	13	220
308	150W	21	54	50	14	20	16	183	<0.2	<0.02	54	400
309	200W	23	101	82	22	30	21	290	<0.2	<0.02	17	380
310	250W	24	82	67	21	24	21	260	<0.2	<0.02	42	340
311	300W	29	69	54	15	27	17	240	<0.2	<0.02	18	300
312	350W	18	29	37	13	21	14	190	<0.2	<0.02	13	260
313	400W	16	56	53	15	22	15	180	<0.2	<0.02	20	340
314	400W*	14	55	53	14	21	16	175	<0.2	<0.02	16	400
315	450W	25	90	62	21	21	20	195	<0.2	<0.02	20	260
316	500W	64	450	186	49	32	40	460	0.2	<0.02	20	220
317	550W	73	295	79	49	20	29	350	0.6	<0.02	48	500
318	600W	50	272	126	90	25	35	520	0.2	<0.02	38	320
319	650W	36	181	90	71	20	29	330	0.2	<0.02	37	460
320	700W	21	53	121	58	32	40	570	0.3	<0.02	12	280
321	750W	27	113	63	25	37	23	150	0.7	<0.02	17	280
322	800W	15	70	59	39	29	20	180	0.3	<0.02	4	220
323	850W	36	147	93	73	23	26	320	0.2	<0.02	26	380
324	900W*	34	150	94	76	23	25	320	0.3	<0.02	23	300
325	900W	47	206	151	102	28	38	530	0.6	<0.02	41	300
326	950W	45	147	140	70	30	31	620	0.4	<0.02	40	380
327	1000W	16	37	62	33	21	18	220	<0.2	<0.02	14	400
328	1050W	33	620	197	74	25	31	360	1.0	<0.02	9	220
329	1100W	2	157	114	26	17	24	340	0.4	<0.02	<5	200
330	1150W	1	134	110	25	20	25	350	<0.2	<0.02	<5	240
331	1200W	25	217	83	71	15	22	240	1.0	<0.02	6	240
332	1250W	7	160	125	39	21	21	320	<0.2	<0.02	<5	300
333	470W	54	400	193	45	31	45	520	0.8	<0.02	16	380
334	1250W	4	210	125	27	18	27	360	0.7	<0.02	7	200
335	850W	65	790	307	107	28	41	630	1.2	<0.02	28	160
336	1055W	9	350	165	40	21	35	440	0.6	<0.02	5	170
337	50W	51	260	119	37	39	30	350	0.7	<0.02	31	190
338	160W	48	301	120	30	41	39	530	0.7	<0.02	26	380
339	150W	19	136	80	17	34	28	340	0.6	<0.02	18	440
340	200W	46	170	73	20	30	27	330	<0.2	<0.02	47	460
341	250W	25	190	74	16	30	32	400	0.3	<0.02	39	600

VC1000N

VC 900N

VC 800N

VC1000N

VC 400N

342	340W	13	12R	58	12	33	30	27R	<0.2	<0.02	30	460
343	350W	34	162	102	26	26	33	330	0.2	<0.02	29	300
344	400W	12	92	70	17	28	25	270	0.3	<0.02	14	340
345	500W	34	112	66	19	18	26	490	0.4	<0.02	15	270
346	550W	54	142	71	21	24	32	370	0.4	<0.02	14	280
347	600W	86	77	53	21	20	21	205	0.2	<0.02	53	420
348	650W	36	306	100	13	45	68	900	0.4	<0.02	18	320
349	900W	23	184	70	20	30	28	270	<0.2	<0.02	10	260
350	950W	6	92	41	14	15	18	230	<0.2	<0.02	27	192
351	1000W	3	273	83	26	20	37	340	0.2	<0.02	17	160
352	1500W	3	145	86	20	25	28	330	<0.2	<0.02	10	320
353	1550W	1	104	53	12	23	19	250	<0.2	<0.02	5	16P
354	1600W	2	182	65	16	26	26	280	0.9	<0.02	32	70
355	1650W	2	75	64	16	17	19	260	<0.2	<0.02	27	152
356	1700W	1	70	80	14	22	24	280	<0.2	<0.02	5	188
357	1750W	1	57	64	14	21	22	260	0.4	<0.02	<5	16R
358	1800W	1	53	57	10	19	21	235	0.2	<0.02	<5	176
359	1850W	1	70	69	13	21	24	290	<0.2	<0.02	<5	140
360	1900W	1	123	146	19	21	31	350	0.4	<0.02	<5	280
361	1950W	1	113	130	25	24	21	330	0.5	<0.02	7	124
362	2000W	1	47	88	17	22	18	290	0.2	<0.02	8	300
363	50W	37	63	47	11	29	15	175	0.4	<0.02	13	220
364	100W	27	143	83	18	33	28	560	0.2	<0.02	14	620
365	150W	95	265	74	25	26	29	290	0.3	<0.02	32	580
366	200W	66	295	97	28	33	46	530	0.6	<0.02	31	1160
367	250W	35	216	79	22	27	37	380	0.4	<0.02	18	480
368	300W	30	134	65	20	26	31	290	0.3	<0.02	19	360
369	350W	44	226	115	32	25	39	500	0.3	<0.02	18	580
370	350W*	42	226	113	33	25	38	500	0.3	<0.02	18	
371	400W	11	145	96	26	27	28	330	0.3	<0.02	11	480
372	450W	10	93	51	18	17	17	155	0.3	<0.02	9	380
373	550W	48	206	230	44	29	41	520	0.8	<0.02	29	480
374	1800W	1	161	158	31	21	26	430	1.1	<0.02	6	400
375	1850W	1	155	165	26	20	25	390	1.1	<0.02	6	340
376	1900W	1	115	91	24	22	19	270	0.4	<0.02	6	100
377	1950W	1	65	82	27	18	19	370	0.5	<0.02	5	250
378	2000W	1	58	67	23	17	22	330	0.4	<0.02	5	160
379	50W	23	83	57	26	30	18	153	0.2	<0.02	19	380
380	50W*	20	85	59	22	30	19	151	0.2	<0.02	16	420
381	100W	58	130	72	29	27	21	261	0.4	<0.02	20	740
382	150W	63	234	115	42	41	31	530	0.3	<0.02	17	620
383	200W	70	275	76	32	26	26	310	0.4	<0.02	37	460
384	250W*	90	333	22R	85	33	50	560	1.0	<0.02	17	640
385	300W*	27	123	80	35	21	31	400	<0.2	<0.02	41	360
386	350W	58	390	132	27	36	34	340	0.4	<0.02	24	480
387	400W	140	271	67	16	30	30	180	0.7	<0.02	18	400
388	450W	105	334	99	25	27	33	380	0.6	<0.02	70	500
389	450W*	107	330	97	22	25	32	380	0.5	<0.02	60	400
390	STD AU										1.10	
391	STD AU										1.07	
392	STD AU										1.16	
393	STD AU										1.04	
394	STD AU										1.00	
395	STD AU										1.31	
396	STD A	76	132	89	25	18	16	122	0.5			
397	STD A	75	148	85	22	17	15	115	0.4			
398	STD A	76	140	83	23	21	17	120	0.5			

VC 500N






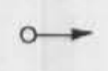
VC 600N

NTS	SAMPLE	PROJECT	MO	CU	ZN	PB	NI	CO	AG	AU	W	F	MN
BAR 800S	00	1203	3	178	96	17	32	24	0.3	0.03	10	340	273
BAR 800S	50E	1203	5	530	159	30	40	35	0.6	0.10	9	420	304
BAR 800S	100E	1203	6	510	160	38	41	35	1.0	0.06	11	400	271
BAR 800S	100E*	1203	6	610	163	38	42	36	2.0		13	420	270
BAR 800S	150E	1203	3	265	88	11	38	33	0.3	<0.02	10	200	340
BAR 800S	200E	1203	4	206	149	23	57	46	0.4	<0.02	<5	260	660
BAR 800S	250E	1203	3	130	59	8	23	20	0.3	<0.02	<5	200	219
BAR 800S	300E	1203	3	194	119	40	44	35	0.6	<0.02	14	360	330
BAR 800S	350E	1203	8	283	132	23	64	39	0.4	<0.02	NSS	NSS	310
BAR 800S	400E	1203	27	382	130	15	69	41	0.3	<0.02	11	260	270
BAR 800S	450E	1203	9	121	112	25	51	31	<0.2	<0.02	5	260	260
BAR 800S	500E	1203	15	156	126	28	59	37	0.2	0.03	7	200	330
BAR 800S	550E	1203	NSS	NSS	NSS	NSS	NSS	NSS	NSS	<0.02	NSS	NSS	NSS
BAR 800S	600E	1203	24	128	153	47	63	36	0.3	<0.02	7	220	340
BAR 800S	50W	1203	3	203	82	14	22	23	0.3	0.09	<5	320	250
BAR 800S	100W	1203	3	290	86	9	20	30	0.2	0.03	5	320	270
BAR 800S	150W	1203	3	233	69	11	20	27	0.4	0.08	11	300	309
BAR 900S	00	1203	5	190	71	36	43	29	0.8	<0.02	<5	90	269
BAR 900S	50E*	1203	6	530	166	42	45	32	0.5		12	320	300
BAR 900S	50E	1203	6	540	169	49	46	34	1.0	<0.02	10	300	320
BAR 900S	100E	1203	7	610	172	121	42	35	2.8	<0.02	11	270	280
BAR 900S	150E	1203	6	540	180	50	43	34	0.3	0.02	8	240	300
BAR 900S	200E	1203	5	290	125	27	53	39	<0.2	<0.02	9	220	470
BAR 900S	250E	1203	6	344	169	26	76	47	0.4	NSS	14	NSS	540
BAR 900S	300E	1203	6	365	171	32	73	46	0.5	<0.02	17	500	490
BAR 900S	350E	1203	7	296	193	47	76	41	0.4	<0.02	8	470	410
BAR 900S	400E	1203	29	280	187	40	86	63	0.3	NSS	19	580	840
BAR 900S	450E	1203	16	335	235	49	82	47	0.2	NSS	10	520	520
BAR 900S	500E*	1203	5	62	124	40	34	24	<0.2	<0.02	6	300	350
BAR 900S	500E	1203	5	63	124	40	37	26	<0.2	<0.02	8	340	360
BAR 900S	550E	1203	5	66	133	43	61	31	0.4	<0.02	5	280	310
BAR 900S	600E	1203	2	38	106	18	48	20	<0.2	<0.02	17	340	210
BAR 900S	50W	1203	7	355	73	14	21	31	0.9	<0.02	12	220	340
BAR 900S	100W	1203	3	213	73	14	23	26	0.2	<0.02	5	185	226
BAR 900S	150W	1203	5	185	72	11	21	27	0.2	<0.02	<5	190	270
BAR 900S	200W	1203	4	272	96	13	26	30	0.7	<0.02	5	200	480
BAR 900S	250W	1203	2	244	84	13	23	25	0.6	<0.02	<5	160	330
BAR 900S	300W	1203	3	193	88	21	22	22	0.2	<0.02	<5	160	264
BAR1000S	00	1203	3	167	102	15	28	25	<0.2	<0.02	<5	260	320
BAR1000S	50E	1203	3	96	161	26	27	27	<0.2	<0.02	6	320	350
BAR1000S	100E	1203	4	140	190	40	39	32	0.3	<0.02	5	460	370
BAR1000S	150E	1203	3	105	183	27	45	31	<0.2	<0.02	6	500	390
BAR1000S	200E	1203	3	134	171	34	31	32	<0.2	<0.02	7	400	330
BAR1000S	250E	1203	3	147	216	39	35	36	0.4	NSS	6	NSS	490
BAR1000S	300E	1203	3	85	125	25	21	23	0.3	<0.02	7	400	236
BAR1000S	350E	1203	4	140	204	39	33	32	<0.2	<0.02	8	380	370
BAR1000S	400E	1203	5	149	222	44	38	36	0.7	<0.02	9	420	480
BAR1000S	450E	1203	3	103	154	45	46	28	0.4	<0.02	<5	180	330
BAR1000S	500E	1203	2	64	158	47	52	28	0.2	<0.02	5	170	310
BAR1000S	550E	1203	6	81	184	60	53	40	0.2	<0.02	5	NSS	1850
BAR1000S	600E	1203	2	53	112	20	28	18	<0.2	<0.02	5	195	165
BAR1000S	50W	1203	4	202	182	31	35	31	0.2	<0.02	<5	380	340
BAR1000S	100W	1203	3	161	196	24	36	31	0.5	<0.02	<5	280	310
BAR1000S	150W	1203	3	102	201	31	33	31	<0.2	<0.02	5	340	390
BAR1000S	200W	1203	3	132	195	33	29	30	<0.2	0.19	6	200	410
BAR1000S	250W	1203	2	102	175	30	30	29	<0.2	<0.02	5	440	390
BAR1000S	300W	1203	2	93	196	27	24	27	<0.2	0.03	<5	560	390
BAR1000S	350W	1203	2	77	148	25	21	24	0.2	<0.02	5	300	340
BAR1100S	00	1203	1	96	154	27	24	26	1.0	<0.02	9	310	300
BAR1100S	50E	1203	2	101	187	49	49	33	1.0	<0.02	5	240	370

NTS	SAMPLE	PROJECT	MO	CU	ZN	PB	NI	CO	AG	AU	W	F	MN
BAR1100S	100E	1203	1	68	156	37	37	27	<0.2	<0.02	<5	190	310
BAR1100S	150E	1203	2	50	133	37	34	26	<0.2	<0.02	<5	250	420
BAR1100S	200F	1203	3	71	157	53	45	36	<0.2	<0.02	<5	380	640
BAR1100S	250E	1203	2	59	133	41	34	25	<0.2	<0.02	14	350	254
BAR1100S	300E	1203	4	123	225	45	37	38	<0.2	<0.02	5	560	960
BAR1100S	350E	1203	3	75	206	60	52	29	<0.2	<0.02	5	340	350
BAR1100S	400E	1203	3	53	127	49	39	27	0.5	<0.02	<5	350	380
BAR1100S	450E	1203	2	76	146	37	32	22	0.6	<0.02	<5	300	210
BAR1100S	500E	1203	1	65	153	41	49	25	<0.2	<0.02	<5	170	250
BAR1100S	550E	1203	1	54	119	33	36	20	<0.2	<0.02	<5	280	190
BAR1100S	600E	1203	2	75	152	38	42	21	0.2	<0.02	<5	280	250
BAR1100S	50W	1203	2	83	160	41	47	30	0.3	<0.02	<5	320	350
BAR1100S	100W	1203	2	60	132	36	31	25	<0.2	<0.02	5	NSS	340
BAR1100S	150W	1203	1	93	187	39	72	33	0.7	<0.02	6	NSS	380
BAR1100S	200W	1203	1	119	199	37	31	33	<0.2	<0.02	6	260	410
BAR1100S	250W	1203	1	103	194	31	33	31	0.6	<0.02	6	NSS	410
BAR1100S	300W	1203	1	102	169	34	30	30	0.3	<0.02	<5	165	370
BAR1100S	350W	1203	1	93	162	24	24	28	0.2	<0.02	<5	280	390
BAR1200S	00	1203	2	107	201	43	33	34	0.2	<0.02	<5	460	400
BAR1200S	50E	1203	1	108	198	49	40	36	0.5	<0.02	<5	540	460
BAR1200S	100F	1203	5	73	177	45	33	30	0.5	<0.02	<5	400	340
BAR1200S	150E	1203	2	94	173	44	35	31	<0.2	<0.02	<5	360	360
BAR1200S	200E	1203	1	96	182	39	31	26	<0.2	<0.02	6	540	360
BAR1200S	250E	1203	1	60	147	35	33	24	0.2	<0.02	<5	460	390
BAR1200S	250E*	1203	2	58	147	36	31	23	0.3	<0.02	<5	400	390
BAR1200S	300E	1203	3	87	181	49	46	31	0.3	<0.02	6	170	400
BAR1200S	350E	1203	3	70	162	35	31	27	<0.2	<0.02	8	200	350
BAR1200S	400E	1203	3	79	160	41	47	29	<0.2	<0.02	<5	300	410
BAR1200S	450E	1203	3	101	201	72	65	38	0.8	<0.02	5	200	410
BAR1200S	500E	1203	2	74	173	49	59	31	<0.2	<0.02	<5	90	380
BAR1200S	550E	1203	1	75	111	42	35	20	0.3	<0.02	<5	125	180
BAR1200S	600E	1203	1	93	330	94	71	32	0.6	<0.02	6	110	320
BAR1200S	600E*	1203	2	94	341	97	72	33	0.6	<0.02	6	145	320
BAR1200S	50W	1203	6	97	173	46	47	30	0.6	<0.02	<5	210	330
BAR1200S	100W	1203	2	48	111	27	29	20	0.2	<0.02	<5	195	170
BAR1200S	150W	1203	2	57	117	37	36	23	<0.2	<0.02	7	500	218
BAR1200S	200W*	1203	1	56	126	42	41	24	<0.2	<0.02	<5	300	248
BAR1200S	200W	1203	1	56	127	42	41	25	<0.2	<0.02	<5	340	251
BAR1200S	250W	1203	1	58	177	44	38	24	<0.2	<0.02	<5	400	242
BAR1200S	300W	1203	2	78	163	56	50	31	<0.2	<0.02	<5	220	330

12
11
10
9
8
7
6
5
4
3

LEGEND

- Jurassic (Fourth of July Batholith)
- 3 Diorite.
 - 2 Quartz Monzonite.
- Pennsylvanian - Permian (Cache Creek Group)
- 1 Meta-sediments and Minor Meta-Volcanics.
-  Dip of Slope.
 -  Cliff edge.
 -  Foot of Talus Slope.
 -  Geological Contact.
 -  Geophysical Conductor.
 -  Diamond Drill Hole.

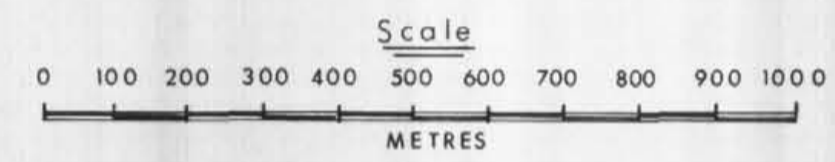


Figure 5.
Geology & Topography
of the
Volcanic Creek Area, 104 N.

10134

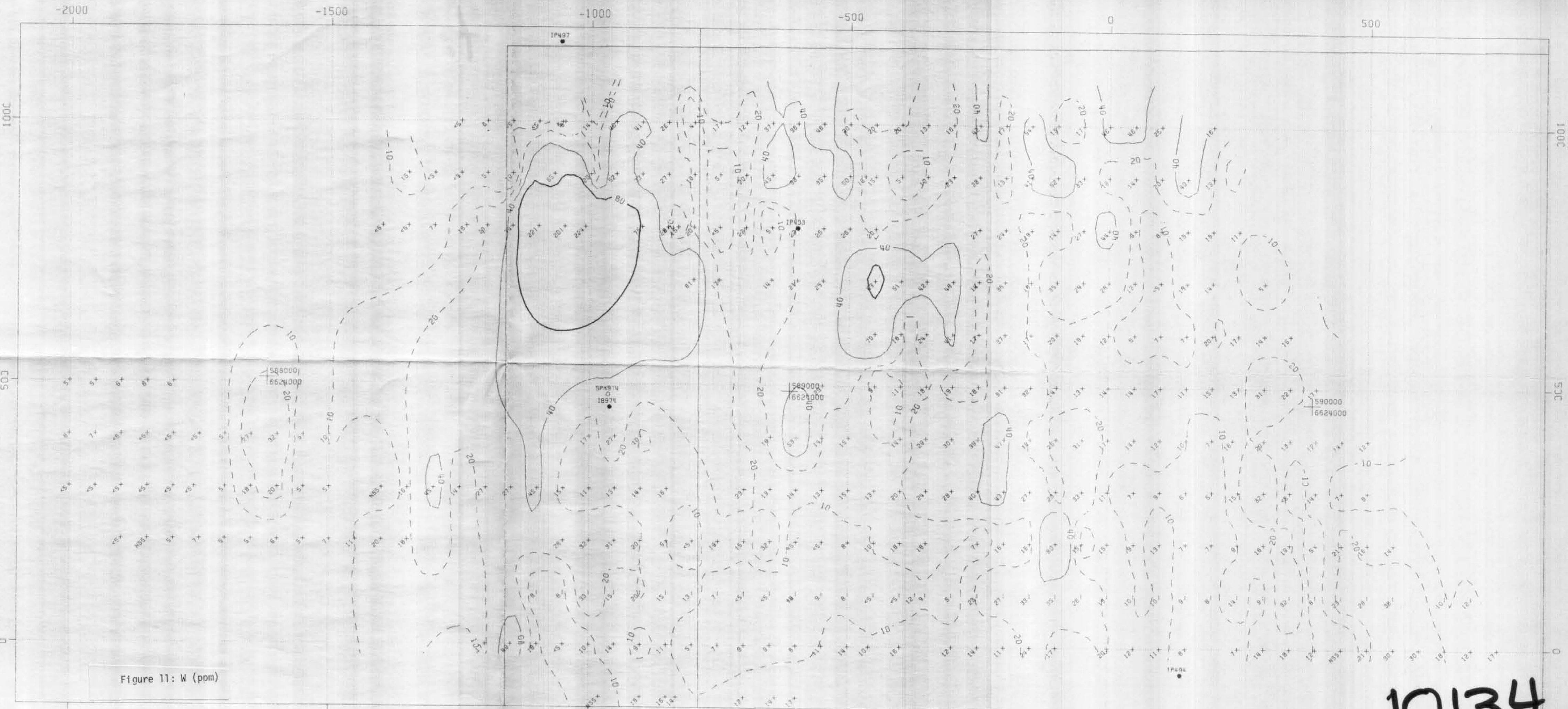


Figure 11: W (ppm)

10134



Figure 10: Ag (ppm)

VOLCANIC CREEK (BARHAM CLAIMS) SOIL SAMPLE GRID (ATLIN: 104N)

SILVER ASSAYS

SCALE 1:5000

SEPT 1981

10134



Figure 15: Mn (ppm)

VOLCANIC CREEK (BARHAM CLAIMS) SOIL SAMPLE GRID (ATLIN: 104N)

MANGANESE ASSAYS

SCALE 1:5000

SEPT 1981

10134

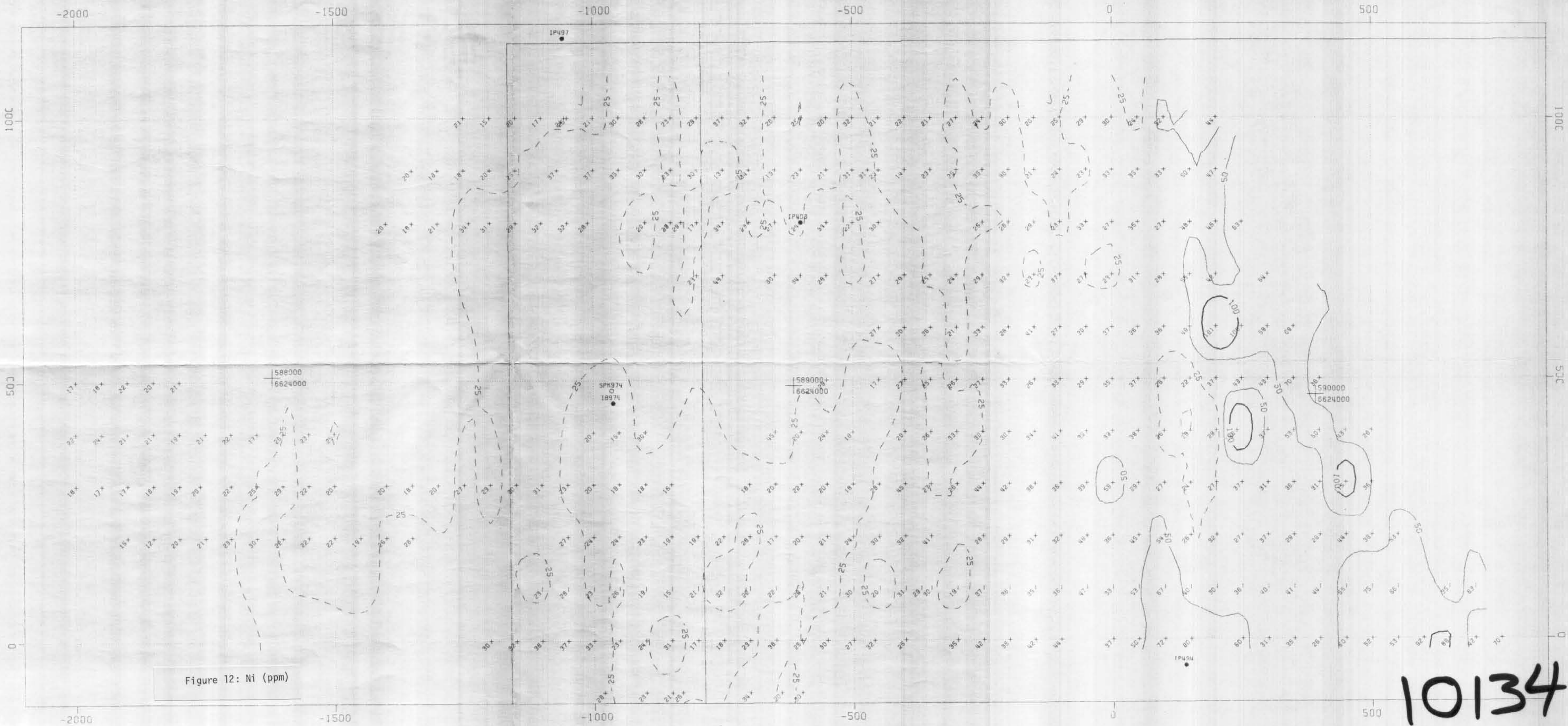


Figure 12: Ni (ppm)

10134

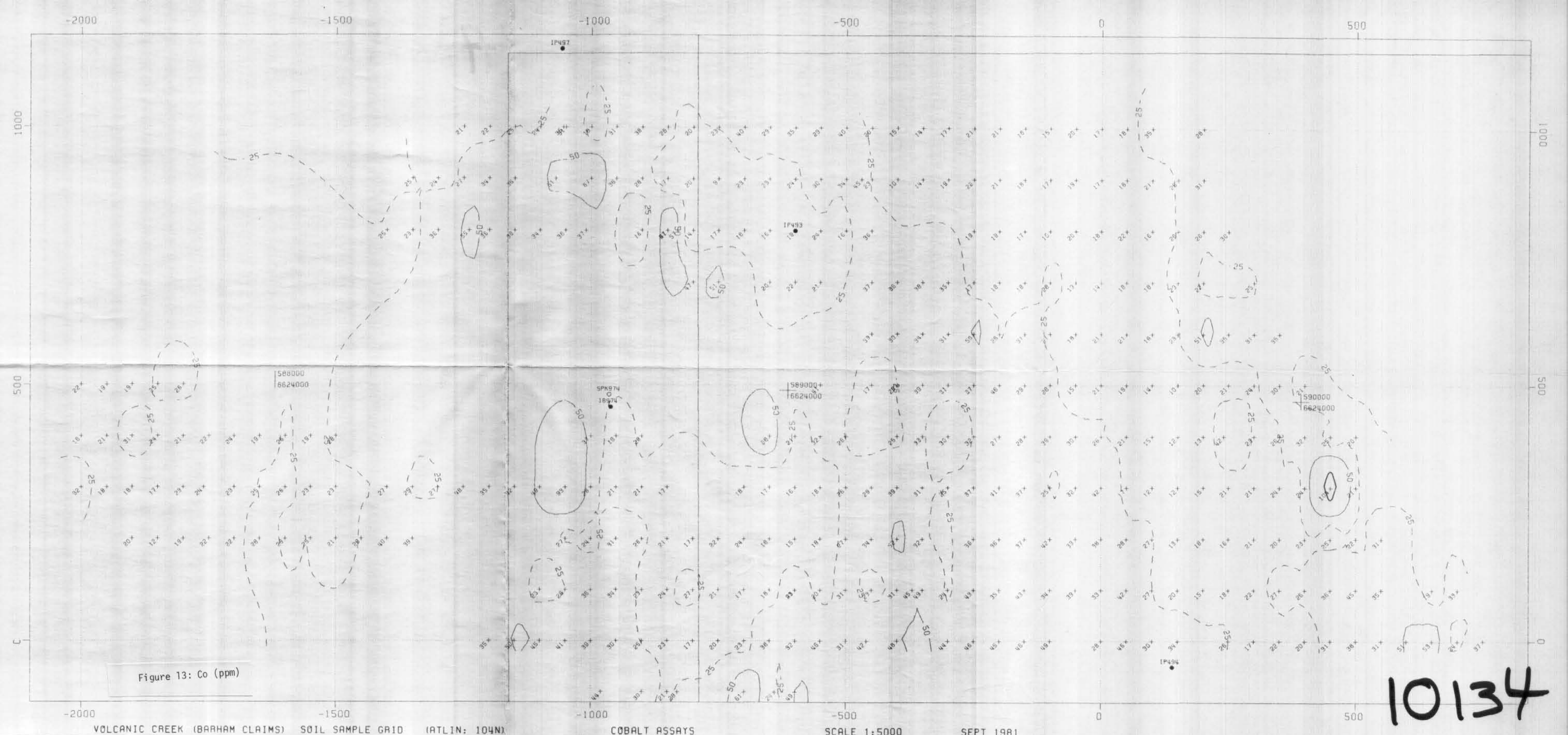


Figure 13: Co (ppm)

VOLCANIC CREEK (BARHAM CLAIMS) SOIL SAMPLE GRID (ATLIN: 104N) COBALT ASSAYS SCALE 1:5000 SEPT 1981

10134

GRID: _____

CANEX PLACER LIMITED

HOLE No. R1-1
SHEET No. 1 of 3

LOCATION: _____ BEARING: 270° 03' LATITUDE: _____ PROPERTY: Volcanic Creek
 DATE COLLARED: Sept 13, 1981 LENGTH: 557' DEPARTURE: _____ CORE SIZE: NW to 322' BQW 322-557' LOGGED BY: ETK
 DATE COMPLETED: Sept 18, 1981 DIP: -50° ELEVATION: _____ SCALE OF LOG: 1" = 10' DATE: Sept 16-20, 1981

ROCK TYPES & ALTERATION						GRAPHIC LOG	Veins ↓ to Core Axis	Width of Vein	Mineralization	Sericite Zone	Remarks	Footage Blocks	Composites <u>R0D</u>	Estimated Core Recovery %	ASSAY RESULTS				
Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness										Sample Number	%		Estimated Grade	
															Cu	Mo	Cu		Mo
nil	75%	-	25% blk hbl.	Coarse fol. etc	5 1/2	17	45	3/8	qtz pr. blebs.		Surface oxidation confined to fractures. Rusty coating on fr planes. from 17-36								
			± 2% bio.		6	30	50 45 40+25 30	1/4 1/8 + 1/16 hl.	barron qtz (fine py xls) blk chl bar qtz + qtz (pr. grains) Mo grains		Minor ground basalt in core box - cave Free. 40	18	40%	80					Tr.
						30	40+50 25 25x2	1/2 + 3/8 3/8 1/8 x 2	qtz (Mo grains) + qtz chl. qtz (Mo grains) qtz (Mo grains) + qtz (pr. grains)		Minor gr. core @ 22' 30° fracturing predom. also 60° + 0° minor fr.	22		43%	98				.01
			locally up to 30%			35	25+40 50+30 30	1/4 + 3/8 1/16 x 2 1/32	qtz chl + qtz (pr.) qtz (pr.) + bar qtz bar qtz		25° + 50° fracturing.	32		73%	100				.02
						35	30 40	3/8 1/8	qtz chl. bio incl. in qtz. qtz with spotty coarse Mo grains on borders. qtz chl on borders.			37			100				
						40	35+50	1/4 x 2	qtz pr. + bar qtz			42							
				Plag. appears clay altd 10" hbl. inclusion // fol?		46	25x2+30 50	1/8 + 1/2 + 1/16 1"	bar qtz x 2 + cal. bx healed by chl. cal		40 + 65° fracturing.	47		60%	98				.01
						48	40	1/8	cal										
						30	40+35+30=2	1/8 + 1/4 + hl x 2	bar qtz + qtz cal + qtz (Mo) x 2										
						40	40+40 40+45 40+25+50 55 40+45	3/8 + 1/8 1/8 x 2 1/16 x 2 + 3/8 1/4	qtz (pr.) + bar qtz qtz chl + bar qtz qtz chl x 2 + vuggy qtz chl bands qtz (Mo flakes) vuggy qtz + qtz chl.		40-50° frac.	52		58%	100%				.01
						40	40+45 50x2	1/4 + 1/4 1/8 x 2	qtz chl (pr.) Fault on hw of basalt breccia zone 18"			57							
				59-60 1/2 basalt bx. hw contact faulted and 20' to 50'		40	50	4"											
						40	40												
						40	40 50x2+30 60+65	1/32 x 3 hl x 2	Tight Contact qtz chl x 2 + qtz (pr.) Sr. filling coarse flakey Mo + pr (cp)			62							
						40	35 40+65+45 0-5	1/16 1/8 + 1/32 + 3/8 1/8	qtz chl qtz Mo + qtz chl + qtz (pr) qtz chl					85%	99%				.02
						40	45 70+0-5	1/8 2" x 1/4	qtz chl bar qtz + qtz chl										
						40	40+35	1/8 x 2	qtz (pr) x 2										

ROCK TYPES & ALTERATION								GRAPHIC LOG			MINERALIZATION & STRUCTURES			Footage Feet	Recovery %	RECOVERY		ASSAY RESULTS			Estimated Grade								
Grz.	Plag.	K-Spar.	Mafic.	Accessories	Texture	Hardness	Rock Name/ Appearance	Rock Type Alteration	Footage Feet	Structure	L To Core Axis	Width Of Vein	Mineralization/ Foliation (Type)			Envelope (Type)	Remarks	Core	Sludge	Core		Sludge	% MoS ₂ Combined						
Weight in Grams		Sample Number		% MoS ₂		Estimated																							
							15" fine grained qtz dionite dyke light sharp contacts	35	40 50+30+85 30+0 25x7 30+40+45 40+30+50 50+5		1/2 1/4 + 1/8 x 2 1" + 1/8 1/4 x 2 1/8 x 2 + 1/4 1/8 + 3/8 x 2 1" + 1/8		qtz coarse Mo // fol qtz pr x 2 + qtz (Mo flecks) // fol bar qtz (Mo flecks) + bar qtz bar qtz x 2 qtz (Mo flecks) + bar qtz bar qtz + qtz coarse Mo + bar qtz bar qtz + qtz chl.			72	97%					.03							
							Fol ² 50° B" hblite incl. // fol ²	50	30 25 40 45+35 30+30+20		1/2 1/8 1 1/2 1/8 1/2 + 1/8 1/8 + 1/4 x 2		qtz chl. bar qtz qtz (pr) qtz with two 1/8" coarse Mo blebs // vein bar qtz qtz (pr) with 1/2" bleached serotitic envelope + vein X-C qtz chl. bar qtz + qtz (pr grains) x 2		55° frac. predominates	82	95%					.01							
							Odd fracture still show minor rusty oxid.	90	50 30+45 40 25+35+60 40+35+40 25+40+20		1/2 - 3/4 1/2 + 1/8 1/8 3/4 + 1/4 + 1/8 1/8 x 2 + 1/4 1/8 + 1/4 + 1/8		qtz thin wisp of pr. qtz (Mo specks) + bar qtz qtz chl qtz Mo specks + bar qtz + qtz Mo specks bar qtz + qtz (pr) with 1/2" chl. envel. + qtz (Mo specks) qtz chl + bar qtz + qtz chl		25 + 55° frac's	92	58%					.02							
							1" f.g. dionite dyke	100	40+50+25 40 35+20		1/2 x 1/4 - 3/8 1/8 1/8 + 1/8		qtz chl + bar qtz + qtz chl qtz (Mo specks) qtz (Mo specks) + bar qtz		25 + 45° frac's	102	86%					.01							
							Fol ² 35-40° Dionite composition very uniform	110	25 30 35+40x2 20+35 40+45 40+45 50+2+45 35 40 40		1/2 - 3/4 1/2 x 3 1/8 x 2 1/8 + 1/4 1/2 + 3/8 1/4 - 1/2 + 1/4 x 2 1/4 3/8 1/8		qtz faint blue colour no vis Mo (pr grains) (cal. skin) fr. with few specks Mo pr qtz (Mo grains) + pr veins x 2 qtz (Mo) + qtz (pr) qtz chl (Mo) + qtz (Mo pr) pr + qtz coarse Mo qtz chl (Mo) + qtz chl x 2 qtz (Mo specks, pr) qtz chl (pr) qtz pr bln.			107	100%					.03							
							Fol ² 40°	120	50+45+35 20 40+35 30+40+65 5+50 40+40+35 40x2		1/2 x 3 1/2 - 3/4 1/2 + 3/8 1/4 + 3/8 + 1/8 1/8 + 1/2 1/4 x 2 + 1/2 1/4 + 1/8		bar qtz x 2 + qtz coarse Mo qtz few Mo specks on contact qtz (pr grains) + qtz coarse Mo grains cal. + qtz chl + qtz Mo flecks qtz chl bluish tinge no vis. Mo + qtz chl qtz (pr) + qtz bio + qtz coarse Mo grains qtz (pr) + bar qtz		50° fr. predom. 70° minor	122	88%			66759			.03						
							Fol ² 35°	130	30x2 20+40 75+5+35 70 55+45+75 50 35 40+45 30		1/8 + 1/8 1/2 + 1/8 1/2 + X.C. 1/8 + 1/2 1/8 3/8 + 1/8 x 2 1/4 3/4 1/4 + 1/8 1/8		qtz chl + bar qtz qtz (Mo grains) + qtz (few Mo grains) bar qtz cut by qtz (pr) + bar qtz qtz chl qtz (chl) cutting qtz pr. x 2 bar qtz qtz coarse Mo (pr) (sph) qtz (Mo) + qtz (Mo flecks) qtz chl.		40 and 55° frac.	127	100%			66760			.05						
								140	40+45 30		1/4 + 1/8 1/8		qtz (Mo) + qtz (Mo flecks) qtz chl.			137	100%			66761			66762			66763			66764

ROCK TYPES & ALTERATION							GRAPHIC LOG	MINERALIZATION & STRUCTURES			Footage Blocks	Recovery %	RECOVERY		ASSAY RESULTS			Estimated Grade			
Qtz.	Plag.	K-Spar.	Mafic.	Accessories	Texture	Hardness		Rock Name/Appearance	L To Core Axis	Width Of Vein			Mineralization/Faulting (type)	Envelope (type)	Weight in Grams		Sample Number		% MoS ₂		
															Core %	Sludge %	Core		Sludge	Core	Sludge
							6" blk hbl. qtz foln 35° No apparent alt'n on major structure zone	142 147	1/4 1/8 1/8 1/4 x 1/4 2" B"	fr. Mo specks qtz chl qtz chl (pr) cutting blk dyke (Mo speck) qtz pr. + qtz chl x 2 subll qtz vein with thin wisps of Mo Vein fault structure. 2" qtz bar qtz + qtz chl (cal)	40 + 55° fracturing Mo and tiny Mo flecks. (pr) ohhw. with 2" qtz chl cal gauge in center slight bluish tinge and vis Mo 2-3 bar qtz cut on 40.	142	85%			66765			.01		
							4" blk hbl. inclusion foln 30° hbl content increase to 60% 15B	156 160	1/8 1/8 + 1/16 1/8 3/4 x 1/2 1/8 1/8 x 2 1/8 + 3/8	qtz cal. vein cutting qtz (pr) qtz Mo flecks bar qtz x 2 qtz (pr) + bar qtz with 1/4" bleached halo qtz chl qtz chl (Mo flecks) + qtz (pr) bar qtz + qtz (cal)		152	89%			66766			.01		
								170	1/4 + 1/8 + 1/4 1/4 + hbl. 1/2 x 2 1/2 1/2 + 1/4 1/2 + 1/4	qtz chl + bar qtz x 2 bar qtz + fr with coarse Mo flakes bar qtz + qtz (Mo flecks) qtz chl. cp qtz bio + qtz (pr) bar qtz + qtz (Mo pr. flecks)	55 + 60° fracturing	162	91%					.02			
							foln 35°	176	3/4 1/4 + 1/16 1/8 + 3/8 1/8	qtz with coarse 3/8-1/2" Mo flakes qtz chl with 1" blk envel. + qtz pr. chl. pr. + qtz (Mo flecks) vuggy qtz		172	50%			66767		.05			
nil.	60% slight alt	nil	35% hbl. chl.	foliate coarse	3-5		Weakly Keel. and Chloritized Diorite	180	1/2 + 1" 1/2-1" 1/8 + 1/4 1/4 + 1/8	bar qtz + qtz vein with thin wisps of Mo bands. Fault gouge qtz cal boulders + qtz chl qtz coarse Mo grains + qtz cal	176-180 blocky	177	98%			66768					
			5% chl. bio				18" dk. hbl. chl. inclusion 40"	182	1/8 + 1/4 + 1/8 1/2 + 1/8 1/4 + 1/4 + 1/8 4" 1/4 x 2 + 1/8 1/8 + 1/4 + hbl 1/4 3/8 1/2-1"	bar qtz x 2 + qtz (Mo specks) bar qtz + X-cutting vuggy qtz qtz chl (Mo speck) + qtz pr. + qtz cal. bar qtz with few pr grains. qtz cal. + qtz bio + blue qtz no vis. Mo bar qtz x 2 + stick fr. fault stick gouge (pol. Mo) qtz chl.	80° frac. predom. 35° minor.	182	10%			66769		.01			
	65% fresh	nil	30% blk hbl + 5% bio	coarse foliate	5-6		Fresh Diorite foln 50°	190	1/4 + 1/8 1/4 + 1/32 1/8 1/8 x 2 1/4 + 1/8 + 1/16 1/4 + 1/8 1/32	chl + qtz chl qtz pr. bleb + qtz pr. bar qtz qtz (Mo flecks) + qtz chl bar qtz x 2 + qtz chl with 1/2 chl. envel. qtz chl. + qtz pr. qtz chl.	qtz cal along fault	187	98%			66770					
							foln 45°	192	1/4 + 1/8 1/4 + 1/32 1/8 1/8 x 2 1/4 + 1/8 + 1/16 1/4 + 1/8 1/32	qtz chl vein bar qtz qtz bio. blobs cut by cal chl. vein; both veins cutting qtz chl. qtz chl + qtz cal - qtz in cal. vein appears almost chalcocenic		192	98%					.01			
							foln 45°	202	1/4 + 1/8 + 1/32 1/8 + 1/16 x 2 1/4 + 1/8	qtz bio grains + qtz chl. + qtz cal. cal (qtz) + qtz chl + cal.		202	90%				Tr				
								207	1/4 + 1/8 + 1/32 1/8 + 1/16 x 2			207	100%								

ROCK TYPES & ALTERATION								GRAPHIC LOG	MINERALIZATION & STRUCTURES				Footage Blocks	RSD Specific Gravity	RECOVERY		ASSAY RESULTS					
Qtz.	Plag.	K-Spar.	Mofic.	Accessories	Texture	Hardness	Rock Name/Appearance		L To Core Axis	Width Of Vein	Mineralization/Faulting (Type)	Envelope (Type)			Remarks	Weight In Grams		Sample Number		% MoS ₂		Estimated Grade
																Core	Sludge	Core	Sludge	Core	Sludge	
													%	%								
							fol 50	40 irreg. 5-15° 45 60 70+40 50 45 30	220	2" 1/16-1/4 1/4-3/8 1/8 1/2+1/8 1/8 1/8 1/8	dk gy blk chloritic graphitic irreg vuggy cal (qtz) qtz chl cal frag. chl envelope 1/2" on hws bar qtz chl. almost shredded foliate structure cal ep. on fr. plane py on fr.	? slick vein with wedge of cal-chl diss py ep. Hbb on fw.	22	49%							.01	
							fol 4 Plag is somewhat alt through fault zone	35 40 40 20 20 25 40 40	280	1/8 hl 10" 24" 1/4	qtz coarse Mo flakes. Coarse Mo on fr. chl. basalt brecciated & faulted then heated by shreds of cal and chl 2' zone smeared with crystallized chl. fractures minor cal. Brecciated chl. fault zone shreds of chl. very minor py xls. bar qtz		222	24%						.02		
							fol: 35-40°	30 50+25+35 45 55+30+50 55 30+45 240	240	24" 1/8+1/8+1/8 1/32 1/32+1/8+1/4 1/4 1 1/2"+2" 1"	bar qtz + chl. cal (ep) + bar qtz chl. pr bar qtz x 2 + chl. cal py qtz cal py qtz vein with few coarse Mo flecks + qtz vein with two thin chl. bands & few Mo flecks.	2 gn fault gouge on fr. at opposite angle to hws	232	63%					.02			
							6" blk hbl. foln 40 2' dk gn. basalt dyke light contacts, 25' minor brecciation on fw. 2" 8" blk hbl. 50'	30+30 20+70 30x2+45 40 30+15 75 50+40x2 250	250	1/16+1/8 1/2-1" x 1/8 3/8+1/8 x 2 3/8 1/2+1/32 1/16 1/8+1/4 x 2	bar qtz x 2 qtz (pr. grains) cutting bar qtz qtz (Mo flecks) + qtz cal + qtz (Mo grains) cal. qtz qtz cal + qtz chl py chl qtz slick fr. with py vuggy qtz cal xls + qtz chl + bar qtz cal		242	70%					.01			
								20 25 20+50 30+25 40+50+65 55 10x2 260	260	1/4 1/16 1/2+1/32 1/8+1/8 1/16x2+1/4 1/32 1/16x2	fault fault with 1 1/2" blk hbl inclusion local fault with 6" hbl. on fw. + thin cp vein bar qtz + qtz pr. cal Mo flecks with 1/2" qtz chl + qtz chl (Mo flecks) + qtz blue qtz pr. qtz bar qtz (chl) sub // veins.	with 1/8" qtz cal veinlets sericite qtz envelope (Mo flecks).	252	55%					.01			
							fol 40°	20 40x2+65 50+45 20+50 50x2 270	270	1 1/2" 1/8x2+1/4 1/32+1/8 1/8+hl 1/8+1/16 3"	qtz bio grains (pr. grains) qtz chl x 2 + qtz bio qtz chl x 2 bar qtz + cp. qtz (py Mo flecks pr. grains) x 2 chl healing narrow brecciated zone.	35-40° fracturing	262	70%					.01			
								10 25+40+35 30 10x2 10+5 30+45 25+70 15+20 280	280	1/8-1/4 1/16x2+3/8 1/8 sub // 1/2+3/8 1/16+1/4 1 1/2"+1/2 hl+1/8 1/8-1/4 x 2	qtz chl. qtz (Mo flecks) x 2 + qtz chl bio (pr. Mo) qtz cal. qtz massive pr with 3/4' qtz bar qtz + qtz bio cp qtz vein few coarse Mo + qtz bio cp + bar qtz qtz (bio) (Mo flecks) x 2	ser. envel. + qtz qtz (Mo flecks) with 2" qtz bio. band on fw.	272	93%					.02			

ROCK TYPES & ALTERATION							GRAPHIC LOG	MINERALIZATION & STRUCTURES				RECOVERY		ASSAY RESULTS										
Qtz.	Pleg.	K-Sper.	Mefic.	Accessories	Texture	Hardness		Rock Name / Appearance	To Core Axis	Width of Vein	Mineralization / Faulting (type)	Envelope (type)	Footage Blocks	RAD Spacing Density	Weight in Grams		Sample Number		% MoS ₂		Estimated Grade			
								Core							Sludge	Core	Sludge	Core	Sludge	Combined				
							Foln 30-35°	40 45 40 45+65 50x2 70 25	1/8 3/8 1/16 1/2+1/2 1/2+1/2 1/8 1/2	bar qtz qtz massive cp (pr) with 1/4 qtz ser. envelope qtz cal thin sub// chl. gouge qtz chl cal + vuggy qtz qtz chl qtz bio (Mo-flocks)			282		46%									
							1" f.g. diorite 40 dyke	230	40 40+35+10 25+65+55 15+20+65 55	1/16 1"+1/2+1/8 1/2x8 1/16x2+1/8 1/2	qtz cal with 1/2 bleached halo qtz (chl) cutting qtz chl bio (pr) few Mo specks + bar qtz qtz chl x 8 bar qtz x 2 + chl qtz cp			287		100%							.01	
							8" blk hbl. diorite 70% hbl 30% plaq.	300	40 40+35+10 25+65+55 15+20+65 55	1/16 1"+1/2+1/8 1/2x8 1/16x2+1/8 1/2	qtz cal with 1/2 bleached halo qtz (chl) cutting qtz chl bio (pr) few Mo specks + bar qtz qtz chl x 8 bar qtz x 2 + chl qtz cp			292		82%							.01	
							Foln 35°	300	50 60 55+25 35 40+25+10 50 50+0	3/4-1" 1/8 1/16+1/32 1" 1/16x2+1/8 1/8 1/2+1/4-3/8	qtz chl cal vein with 1/2 bleached halo on hbl + 1/2-3" on f.w. bar qtz qtz chl + vuggy qtz qtz vein with one blob of coarse Mo 1/4 x 1" qtz chl x 2 + bar qtz qtz (bio) qtz cal with 1/2 qtz ser envelope on f.w. + qtz (coarse Mo grains on borders) vein extends from 307-312			302		97%			66771					.05
								310	50x2 40+15 25 0-5 40 35 40+45	1/4x2 1/2-1/2+h hl 1/2-1/4 1/8 1/8 1/2+1/4	qtz (Mo band) + qtz (Mo specks) qtz chl bands thin Mo wisps chl slick fr. slick chl vuggy qtz (Mo specks on borders) qtz coarse Mo flakes qtz cp qtz cp + qtz chl. with 1" bleached halo			307		98%			66772					
								320	50x2 40+15 25 0-5 40 35 40+45	1/4x2 1/2-1/2+h hl 1/2-1/4 1/8 1/8 1/2+1/4	qtz (Mo band) + qtz (Mo specks) qtz chl bands thin Mo wisps chl slick fr. slick chl vuggy qtz (Mo specks on borders) qtz coarse Mo flakes qtz cp qtz cp + qtz chl. with 1" bleached halo			312		59%			66773					.03
							322 NQW to BQW Foln 35°	320	45 35+30x2 35 30 40+25 60	hl 1/16+1/16x2 1/16 1/4 hl+1/8 1/2-3/4	chl qtz chl cp + qtz chl. vuggy qtz qtz (cp) chl pr + qtz chl py. qtz chl (cal) with 1/2 chl envelope		Ground Core @ 322 Ground core @ 325	317		100%			66774					
							Spec.	330	45 35+30x2 35 30 40+25 60	hl 1/16+1/16x2 1/16 1/4 hl+1/8 1/2-3/4	chl qtz chl cp + qtz chl. vuggy qtz qtz (cp) chl pr + qtz chl py. qtz chl (cal) with 1/2 chl envelope		Ground Core @ 322 Ground core @ 325	322		50%								Tr
								340	45x2 10 35 30+35 40 20 35x2+45 40	1/2x2 1/8 1/4 1/2+1/4 1/16 1/8 1/16x8 1/2	qtz (cp) + bar qtz qtz (cp) qtz vuggy qtz chl + qtz (chl) bar qtz qtz pr (Mo specks) qtz pr x 2 + qtz pr. (Mo specks) chl qtz cp bands up to 1/2" thick in chl sericite band			325		94%								
							8" fine gr. diorite 30 dyke	350	45x2 10 35 30+35 40 20 35x2+45 40	1/2x2 1/8 1/4 1/2+1/4 1/16 1/8 1/16x8 1/2	qtz (cp) + bar qtz qtz (cp) qtz vuggy qtz chl + qtz (chl) bar qtz qtz pr (Mo specks) qtz pr x 2 + qtz pr. (Mo specks) chl qtz cp bands up to 1/2" thick in chl sericite band			335		85%								.01
							4" fine gr. diorite 40 dyke with 3" hbl on h.w.	350	40 35 30+40 40 40+50 35x2 20+15+30	1/2 1/2 hl+1/8 1/16 1/4+1/4 1/2+1/2 1/4+1/8+1/4	qtz chl cal on f.w. of dyke qtz cp + bar qtz qtz chl with 1/4 chl ser. envelope qtz chl + qtz cal qtz chl x 2 in f.g. diorite dyke qtz (chl) + qtz (few Mo specks) + qtz chl (pr)			342		95%								.01

COMPOSITE PLAN OF MINERAL CLAIMS VICINITY ADANAC PROPERTY ATLIN MINING DIVISION CASSIAR LAND DISTRICT

SCALE: 1:10000

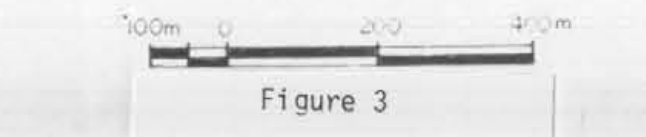
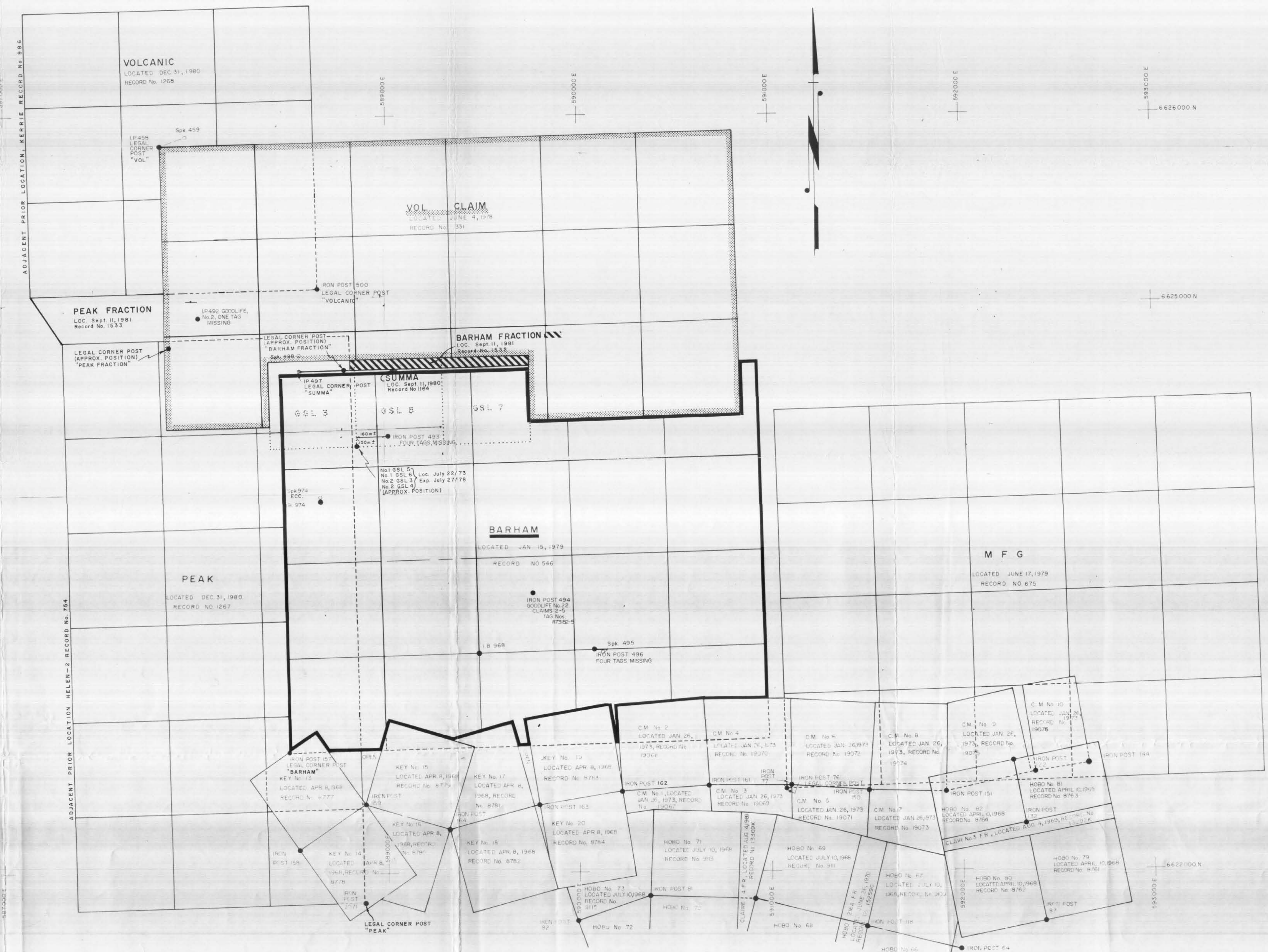


Figure 3
BEARINGS ARE REFERRED TO CENTRAL MERIDIAN ZONE 8, 15° W
COORDINATES ARE DERIVED FROM GROUND LEVEL DISTANCE AND GRID BEARINGS FOR ITEM ZONE 8 AND PROJECTED FROM THE UTM COORDINATES OF MINE CONTROL MONUMENT NO 74 6 620186.883N 589776.534 E
ELEVATIONS ARE APPROXIMATE AND REFERRED TO GEOMETRIC DATUM, DERIVED FROM MINE CONTROL MONUMENT NO 74 STATED ELEV 1490.47 (METRES)
IRON POST SHOW THUS ● IRON POST
IRON BAR ———— B
SPIKE ———— Spk

STATION	BEARING	DISTANCE	NORTHING	EASTING	ELEVATION
IB 974 to Spk 974 ECC	354° 07' 54"	24.100	6 623 959 636	588 655 783	1717.7 M
Spk 974 ECC to IP 492	359° 20' 16"	1106.419	6 623 983 665	588 653 270	1717.7 M
Spk 974 ECC to Spk 498	351° 51' 36"	759.714	6 623 983 665	588 653 270	1717.7 M
Spk 498 to IP 497	179° 40' 11"	85.021	6 624 735 736	588 545 700	1369 M
Spk 974 ECC to IP 492	326° 09' 58"	1142.637	6 623 983 665	588 653 270	1717.7 M
Spk 974 ECC to Spk 459	340° 02' 05"	2032.830	6 623 983 665	588 653 270	1717.7 M
Spk 459 to IP 498	249° 27' 10"	144.390	6 625 894 321	587 959 159	1265 M
Spk 974 ECC to IP 492	47° 28' 24"	481.849	6 623 983 665	588 653 270	1717.7 M
Spk 974 ECC to IP 494	114° 32' 26"	1216.117	6 623 983 665	588 653 270	1717.7 M
Spk 974 ECC to Spk 495	119° 13' 28"	1659.741	6 623 173 327	590 101 749	1787 M
Spk 495 to IP 496	273° 09' 21"	21.045	6 623 174 486	590 080 736	1789 M
IB 969 to IP 2071	204° 18' 15"	1446.995	6 623 164 035	589 473 773	1246.76M
			6 621 843 460	588 877 395	1278 M

CLAIM NAME	DESCRIPTION	NORTHING	EASTING
BARHAM	L.C.P.	6 622 630 34	589 446 93
	N.W. COR.	6 624 436 78	589 436 53
	N.E. COR.	6 624 496 39	590 538 84
	S.E. COR.	6 622 696 65	590 986 18
M.F.G.	L.C.P.	6 622 435 65	591 076 68
	N.W. COR.	6 624 434 96	591 027 96
	N.E. COR.	6 624 495 99	593 527 11
	S.E. COR.	6 622 496 58	593 575 94
PEAK	L.C.P.	6 621 807 73	587 377 82
	N.W. COR.	6 624 806 88	587 306 36
	N.E. COR.	6 624 843 61	588 805 93
	S.E. COR.	6 621 843 46	588 877 40
SUMMA	L.C.P.	6 624 150 85	588 558 07
	N.W. COR.	6 624 490 71	588 546 19
	N.E. COR.	6 624 498 22	590 545 63
	S.E. COR.	6 624 198 36	590 557 51
VOLCANIC	L.C.P.	6 625 084 01	588 640 55
	N.W. COR.	6 626 547 91	587 105 30
	N.E. COR.	6 626 583 59	588 604 98
	S.W. COR.	6 625 048 34	587 140 98
VOL	L.C.P.	6 625 843 64	587 823 96
	N.E. COR.	6 625 914 36	590 823 13
	S.E. COR.	6 624 414 78	590 858 49
	S.W. COR.	6 624 344 04	587 869 32

NOTE:
THE LOCATION OF THE GSL CLAIMS ARE THEORETICAL BASED ON THE LOCATION OF No.1 GSL 5 AS LOCATED BY DR. BOB PINSENT OF PLACER DEVELOPMENT LIMITED



10134

ROCK TYPES & ALTERATION							GRAPHIC LOG	MINERALIZATION & STRUCTURES			Footage Blocks	R ₂₀₀ Specific Gravity	RECOVERY		ASSAY RESULTS							
Qtz.	Plag.	K-Sper.	Mfic.	Accessories	Texture	Hardness		Rock Name/ Appearance	L To Core Axis	Width of Vein			Mineralization/ Fossilizing (type)	Envelope (type)	Remarks	Weight in Grams		Sample Number		% MoS ₂		Estimated Grade
																Core %	Sludge %	Core	Sludge	Core	Sludge	
							fol: 85°	1100-5' x 2 25+30+40 45x2+40+50 15 85x2 10 35	1/8 + hl. 1/8 + 3/8 + 1/4 hl x 2 + 1/16 x 2 1/8 1/16 x 2 1/16 1/2	qtz (pr) + chl. ep. qtz cp + qtz (coarse Mo flakes) + qtz bio ((Mo flakes)) cp + qtz cp + cp on fr. + qtz coarse Mo (cp)			952	88%						.02		
							8° silicified fine gr. dior. dyke fol: 35°	20 360 35 40+45+30 30+0 60+45 60+30x2	1/8 1/8 x 2 + hl. 1/8 + 1/16 1/8 x 2 1/8 x 3	qtz (chl) bio qtz cp pr. x 2 + Mo flakes on fr qtz chl (Mo) + bar qtz bar qtz + qtz (pr. Mo flakes) qtz (pr) x 2 + qtz chl		several 30-35° frac	361	96%						.01		
							fol: 30°	870 25 40+15x2 70+20 60+10 55+45	1/8 1/8 x 2 + 1/8 x 2 3/8 + hl hl + 1/8 1/2 + 1/32	qtz chl bio qtz (Cal) + qtz (Mo chl) x 2 qtz (py) pr. + pr bar qtz + qtz chl (Mo specks) with 1/4" chl envelope qtz coarse flakey Mo + qtz pr.			371	97%						.02		
							fol: 35°	880 15x2 35 30 30 15 25 20 15	1/8 1/16 1/8 - 1/4 1/4 1/16 1/8 1/8 - 1/16	qtz chl x 2 bar qtz qtz pr. qtz chl bar qtz chl on borders qtz Cal qtz (Mo grains & flakes mainly on borders) bar qtz		Minor gr. core @ 383 30° fractures	385	95%						.02		
							fol: 35°	890 20 50+30 70° 60x2+75 30	1/32 1/8 x 2 1/8 zone of c 1/32 x 2 + 1/2 hl	qtz ep qtz chl + qtz coarse flakey blobs of Mo making healed with blk chl (silicification) qtz chl x 2 + bar qtz qtz chl (pr)			395	66%			66775			.03		
nil.	80% H=4.5	nil.	20% chl. hbl		coarse foliate	3.5-4	Weakly Kaolinized Foliated Diorite	397 20+25 20	1/8 + 3/8 hl	qtz Cal + qtz (Mo flakes silicified fr. chl. asst. with 1" broken chlorite core			400	98%								
	alterac 75% hard		H=3 25-38% blk hbl.			5-6	Fresh Foliated Diorite fol: 85° Note that hbl content is slightly higher than in altered zone	402 45+20 55 85 20+30x2 55x2 35	1/4 + 1/8 1/4 1/4 - 3/8 3/8 + 1/8 + hl 1/2 + 1/4 1/8	qtz cp (Mo flakes) + qtz chl qtz chl. cp qtz chl bio qtz (chl) + cp + qtz (cp) qtz (Mo flakes on borders) x 2 (sph? also with Mo) bar qtz		1" chl qtz sil. envelope on 45° vein 35-40° fracturing.	400	82%					.02			
							fol: 30°	410 35 50 90+40 35x2 30+10 30	1/8 hl. hl x 2 3/8 + 3/4 - 1" 1/16 + 1/8 hl	bar qtz chl bar qtz + vuggy qtz py qtz (pr) (Mo flakes) + qtz (pr) minor Mo flakes on border qtz chl + bar qtz pr.			410	82%						.01		
								420					420									

ROCK TYPES & ALTERATION							GRAPHIC LOG	MINERALIZATION & STRUCTURES				Footage Blocks	RGRD Specific Gravity	RECOVERY		ASSAY RESULTS						
Qtz.	Plag.	K-Spar.	Mfic.	Accessories	Texture	Hardness		Rock Name/Appearance	L To Core Axis	Width Of Vein	Mineralization/Faulting (type)			Envelope (type)	Remarks	Weight in Grams		Sample Number		% MoS ₂		Estimated Grade
																Core %	Sludge %	Core	Sludge	Core	Sludge	
nil	75-80% white fresh		20-25% blk hbl ±5% blk bio		Coarse foliated	5.5-6		35 45+50+45 45+35 5 20+55 35 5	3" 1/6+1/8 thl 1/8+1/32 1/6 hl ± 1/8 1/8 1/16-1/8	qtz thin bands of cp few coarse Mo grains qtz (Mo specks) + qtz chl + pr qtz chl + bar qtz qtz (pr) cp + qtz (Mo) vuggy qtz cal qtz (Mo cp)			501	81%	100%					.02		
							Spec.	510 17 10 25+25 50+30 45+55 10 85 40+30	1/32 1/8 hl ± 1/32 hl ± 1/8 1/8+1/16 1/16 3/8 1/16+1/32	qtz chl with 1/2" siliceous band in hw. band has oriented bio. grains at 20° angle to fold qtz (bio) fr with 1/8" K-sp envelope + qtz (Mo flecks) fr 1/8" K-sp envelope + qtz with 1/2 blk hbl envelope on hw a 1/2" qtz bio envelope on fw qtz chl + qtz bio qtz chl massive pr. vein with 1" qtz ser. envelope bar qtz x 2			511	91%	100%					.01		
								520 50 55x2+40 45+25 70 60 25+20+10 30	1/32 1/16x2+1/4-3/8 1/32x2 1/16 1/4 1/16+3/8+1/16 1/16	cp bar qtz x 2 + bar qtz chl on borders cp qtz chl + qtz cp (Mo specks) 3/8" chl envelope on 45° vein qtz (Mo specks) bar qtz chl qtz pr. sph + qtz chl + bar qtz qtz chl on borders			521	77%	100%					.01		
							Spec.	530 40+45 10+50 45x2 25 30+50 40	1/8-1/4 + 1/2" 1/16x2 1/16x2 1/16 hl x 2 1/8	qtz cp (sph) ser. + qtz with f bar qtz x 2 qtz cp (chl) x 2 vuggy qtz qtz (cp chl) + qtz chl qtz coarse Mo blebs	fw coarse Mo flakes two 1/4 chl ser. envelopes two thin chl. en. val. 25° fracturing prevalent			531 538	65%	100%					.02	
								540 20+35 25 50+60x2 20 30+90 45+50 30+35 50x2+35	1/8-1/4+1/16 1/4-3/4 1/16+1/4+1/16 hl 1/4+hl 2" ± 1/2 1/4x2 1/4x2+1/16	bar qtz + qtz chl (cp) vuggy qtz vein healing narrow brecciation qtz cp + qtz chl x 2 cp bar qtz + Mo fract filling qtz (cp) (Mo flecks) chl gouge on fw + narrow fault with assoc. 1" of oxid? on hw. bar qtz x 2 bar qtz x 2 + qtz cp			547	72%	100%					.01		
								550 45 45 30+45 50 10 20x2+40	1/4 1/2-1" 1/4+1/4-1/2 1/4 1/8-1/2 1/32+1/8+1/16	qtz chl (cp) white qtz with 2" chlorite and crenulated band on hw bar qtz + qtz (cp grains) bar qtz irreg. cal. qtz healing narrow brecciated crack qtz cal x 2 + qtz chl.			557	30%	100%					Tr		

Crackled + weakly brecciated zone healed with silicified chl bio

Poor incipient fol @ 40
551-556 hbl chloritized

fold 40°
End of Hole

GRID: _____

CANEX PLACER LIMITED

10,134

HOLE No. 91-2
SHEET No. 1 of 8

LOCATION: 125' west @ 260° az from 800N BEARING: 90° az.
DATE COLLARED: 19 Sept 1981 ^{+800W} LENGTH: 550'
DATE COMPLETED: 22 Sept 1981 DIP: -50°

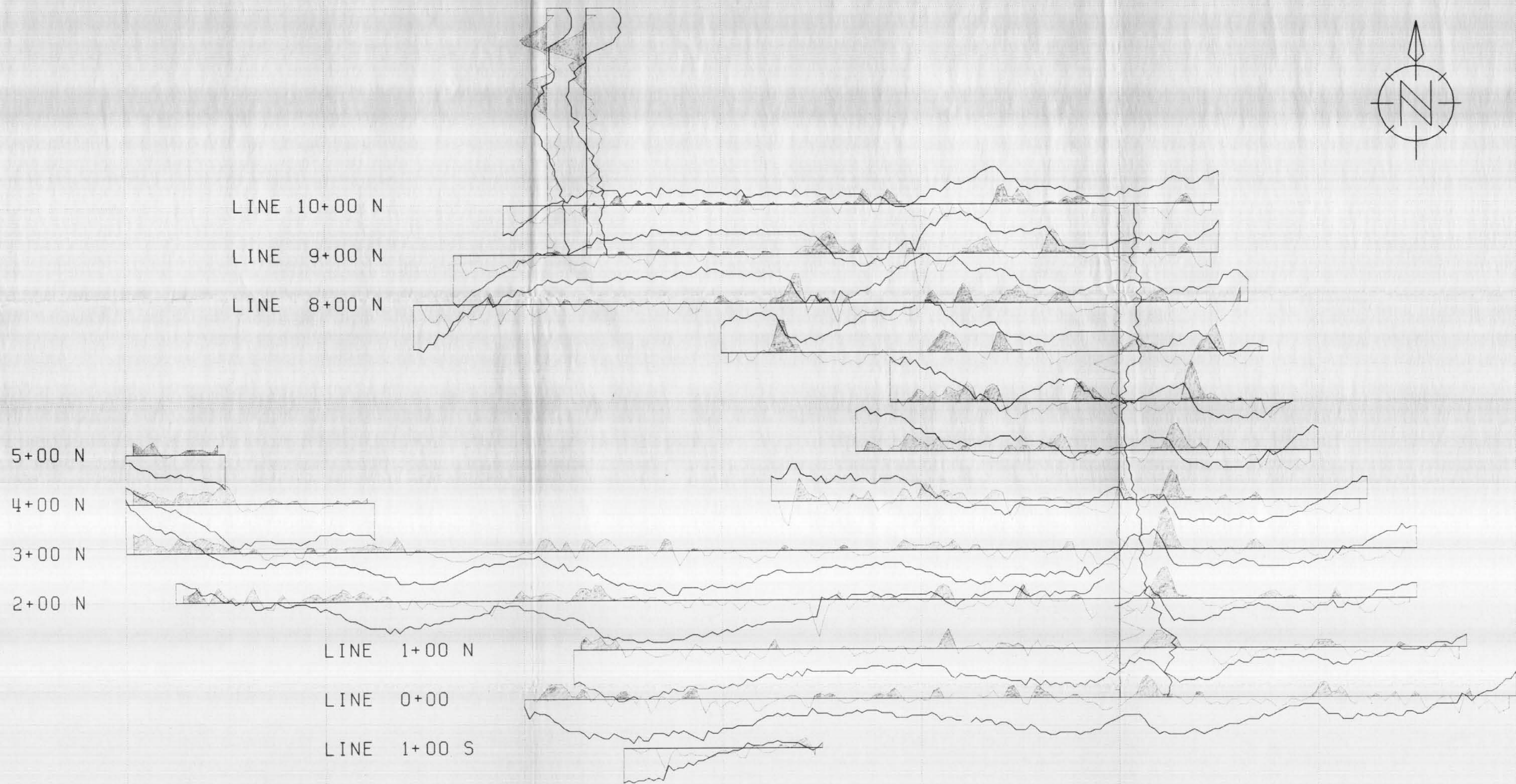
LATITUDE: _____
DEPARTURE: _____
ELEVATION: _____

PROPERTY: Volcanic Creek
CORE SIZE: NQW to 42' BQW 42-550' LOGGED BY: E.T.K.
SCALE OF LOG: 1" = 10' DATE: 21-23 September 1981

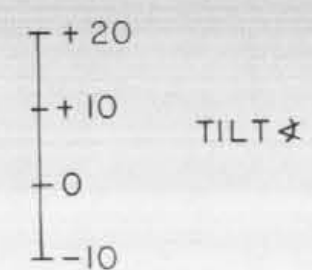
ROCK TYPES & ALTERATION						L to Core Foliation Alteration	GRAPHIC LOG Footage Structure	Veins L to Core Axis	Width of Vein	Mineralization	Sericite Zone	Remarks	Footage Blocks	RQD Cm/ft	Estimated Core Recovery %	ASSAY RESULTS						
Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness											Sample Number		%		Estimated Grade		
																Cu	Mo	Cu	Mo			
					0-16' csq. 12-16 Vole. rx. Diorite pebbles recovered																	
mil.	75-80% white fresh	hil	20-25% blk hbl	foliated coarse	5-6 <u>Fresh Foliated Diorite</u>	35°	20	35 15	1/16 1/8	qtz (py xls) chl. (qtz)												
			15% blk bio some hbl + bio weakly chloritized down to 22'			30	20-115 40+20+40 50+2 45 20 40	1/32 x 2 1/16 + 1/8 + 1/8 3/16 x 2 1/8 1/32 1/16		blk chl qtz cutting qtz chl + qtz (chl bio) bar qtz bio x 2 qtz with few tiny Mo specks qtz chl qtz (one tiny Mo speck) bio grains bar qtz + qtz chl bio with 1/8-1/4 qtz ser. envelope												
						35°	30	40+65	1/8 x 2													
						35°	40	25 40 30+45 80	1/32 1/32 1/32 + 1/8 1/32	qtz (chl ser) bar qtz qtz chl x 2 qtz chl												
					NQW - BQW	85°	40	30+30+90	1/32 x 2 + 1/16	qtz chl + qtz bio + qtz bio chl.												
						85°	50	55 35+4 55 65+75 70+55 60+70 x 2 85	1/32 1/16-1/8 1/16 1/16-1/8 + 1/8 1/8 x 2 1/16 x 3 hl	qtz one speck pr blk chl veins - diorite silicified or bleached over 8" bar qtz qtz bio + bar qtz qtz bio + qtz bio ser qtz (bio chl) x 3 pr. fr. filling with 1/8 chl bio envelope												
						85°	50	50	1/32	qtz (pr Mo specks)												
						85°	60	35 30 x 2 30+65 40	1/16 1/8 x 2 1/8 + 1/16 1/8	qtz bio (chl) no vis. Sulph. fracturing with 8" oxid. zone. qtz (chl) x 2 bar qtz												
						85°	60	25+7+85 30+45	1/16 x 3 1/32 + 3/4	fracturing with 6" oxid. zone qtz (bio) x 2												
						85°	70	90 30+50+80 x 5 75 45 x 2 + 30	1/32 1/16 + 1/16 x 6 1/16 3/4 x 2 + 1/16	qtz bio qtz (bio) + sub// qtz chl x 5 over 4" latter qtz chl qtz bio x 2 cut by qtz bio												
						85°	70	50+55	1/8 x 2	qtz chl x 2												

ROCK TYPES & ALTERATION								GRAPHIC LOG		MINERALIZATION & STRUCTURES				Footage Blocks	ROD Specific Gravity	RECOVERY		ASSAY RESULTS			Estimated Grade	
Qtz.	Pleg.	K-Sper.	Mefic.	Accessories	Texture	Hardness	Rock Name/ Appearance	Rock Type Alteration	Structure	Width of Vein	Mineralization/ Faulting (Type)	Envelope (Type)	Remarks			Weight in Grams		Sample Number		% MoS ₂		
																Core %	Sludge %	Core	Sludge	Core		Sludge
							fol ¹ 40°	90+35 25+45 20+50 60	1/8 x 2 1/8 + 3/8 1/32 + 1/2 1/2	qtz bio also some mineral qtz (bio cp) + bar qtz qtz chl + qtz bio qtz (cp oxid cp) with 1/2" qtz ser on hw	acid + qtz chl bio			76	58%						Tr	
							fol ¹ 45	20 50+45 70 60+30 60	1/8 1" + 3/8 1/16 x 2	bar qtz qtz (few tiny Mo flecks) + qtz bio ser qtz chl			82	76%	100%					Tr		
							91-92 1/2 cracked zone with 10 + 25° fracturing and rusty oxidation. Blocky core	45+65 30+75 60+25 50	1/32 + 1/8 1/8 + 1/16 1/32 + hi 1/8	chl (qtz) + qtz chl. qtz (bio on borders) + bar qtz qtz chl with 1/2 oxid zone + qtz chl chl			91 95	54%						Tr		
							fol ¹ 35	50+15 80 20+75 40 35+25	1/8 x 2 1/16 1/8 + 1/16 1/8 1/4 x 2	qtz (chl bio) + qtz bio qtz chl qtz bio on borders + qtz bio qtz bio qtz chl (bio) ser x 2			104 114	78%	100%					Tr		
								25 20 70 30+75 20+45 20+65	1/16 - 1/8 1/32 1/8 1/32 + 1/8 1/32 x 2 1/8 - 1/4 + 1/8	qtz bio chl ser. blk chl qtz qtz chl qtz (bio) + qtz chl ser qtz (chl bio) rusty x 2 qtz chl bio cut by bar qtz		oxidation as rusty coatings still much in evidence on 30-50° fracture planes	110 120	100%							Tr	
								70 70 20 45	1/4 - 1/8 1/16 2" 1/4	qtz chl qtz bio qtz vein with few specks & wisps cp. qtz bio (cp)			124 127	84%	100%					Tr		
							fol ¹ 35-40°	35 x 2 80 25 65+60+30	3/8 x 2 1/32 hi 1/8 + 1/32 + 1/16	1/8 bar qtz + qtz few Mo wisps qtz (bio) qtz bio with 1/8" ser envelope qtz chl x 2 + qtz (bio borders)			130								Tr	
								65+80	1/8 + 1/8	bar qtz + qtz bio both veins with rusty coated fractures												
							fol ¹ 30-35°	35 75 40+60 80+20 0+15 70 70+75	1/16 4" zone 1/32 x 2 1/16 x 2 1/16 x 2 1/16 1/16 + 1/16	bar qtz crackling minor brecciation healed by blk chl bio (silicification) no vis. sulph. bar qtz (bio borders) x 2 bar qtz x 2 1" x 2 with rusty oxid. qtz (cp pr) bio with 1/4 qtz ser envelope chl (cp pr) + qtz chl			137	77%	100%						Tr	

ROCK TYPES & ALTERATION								GRAPHIC LOG		MINERALIZATION		STRUCTURES		RECOVERY		ASSAY RESULTS							
Qtz.	Plag.	K-Spar.	Mafic.	Accessories	Texture	Hardness	Rock Name/ Appearance	Rock Type Alteration	Footage Structure	L To Core Axis	Width Of Vein	Mineralization/ Foliation (type)	Envelope (type)	Footage Blocks	ROD Specific Gravity	Weight in Grams		Sample Number		% MoS ₂		Estimated Grade	
																Core	Sludge	Core	Sludge	Core	Sludge		
																%	%			Combined			
									25 20+60 35+25 60 60+30	3" 1/16 x 2 1/16 + 1/32 1/16 1/32 x 2 1/32 - 1/16	qtz vein blk bio qtz chl bio x 2 bar qtz + cal qtz bio with 1/4" qtz ser. bio envelope bar qtz + qtz bio qtz with few tiny Mo flecks			27	80%								.01
							Fol: 35°		220 30 40+15 50	1/16 1/16 - 1/8 1/16 - 1/8	bar qtz qtz bio x 2 qtz chl bio			227	93%							Tr	
							6" dkgy to blk hbl. 85 diorite with brown band parallel to fol: 35° 232' 80 6' leuco diorite foliated 5-10% chloritized hbl and bio oriented, blocky fract. 238' 30	230	35 90 25 25 20 20 60+40 35+30	hl 1/8 hl 1" 1/16 hl 1" + 1/16 1/16 + 1/8	blk qtz bio qtz pr qtz chl qtz bio chl with 1/8" ser envelope qtz (cp band) cal. with 2" chl ser. envelope. bar qtz qtz pr. bar qtz chl on hwo + qtz (chl) qtz chl + qtz chl (cal)	Minor gr. conc @ 227 on hwo and 3" qtz bio zone on fw	237	60%								Tr	
							Fol: 30°		240 30+25 60 25 70+15	1/16 x 2 hl 1/32 1/16 + hl	chl cal + qtz chl pr chl chl (pr) luggy qtz cal + chl (qtz) with 1/8 - 1/4" ser. envelope			241	76%							Tr	
							Fol: 40		250 20+2 20+15 90+85 50 40+0-5	1/16 x 2 1/8 - 1/16 1/8 + 1" 3/4 1/16 + 1/16 - 3/8	qtz bio x 2 qtz chl x 2 bar qtz + qtz with one thin lens cp qtz chl qtz chl + bar qtz bio on borders with 1/4 - 1/2" qtz ser envelope Some vein continuous to 262' with considerable thickening to 1" blk chl. and 4-5 soc. blebs or wisps of pr			251	86%							Tr	
							253-267 Considerable cracking with blk chl. healing. minor qtz healing and sericite.		260 50+10+45 90+25 15+20 80 25 270 65 15+65+70 60+2 70+65 55	1/16 x 2 1/16 x 2 hl + 1/16 1/8 1/8 1/8 - 3/16 hl - 1/16 + hl + 1/8 1/16 + 1/8 - 1/4 1/16 x 2 1/16	bar qtz (chl) + qtz chl pr + qtz (bio cal) qtz bio + qtz (chl pr) chl (pr) + chl qtz bar qtz qtz bio on borders qtz with one thin band cp and few Mo flecks on borders qtz chl + cp wisp + qtz pr bio. qtz bio (cal) + qtz pr Mo flecks with 1/2" qtz ser. envelope qtz pr (Mo flecks) + qtz cp with 1/4" qtz ser. envelope qtz (pr)			261	69%							.01	
							Fol: 35°		270 25 20+50 80	1/8 1/4 - 1/2 1/16 x 2 1/8	qtz bio on borders qtz with one thin band cp and few Mo flecks on borders gy qtz chl bio qtz (bio few Mo flecks) x 2 bar qtz			269	92%							.02	
									280					279	100%								



NOTE: INSTRUMENT - CRONE RADEM
STATION - NLK (SEATTLE)
SCALE: 1cm = 10°
..... "FRASER" FILTERED
—— RAW DATA



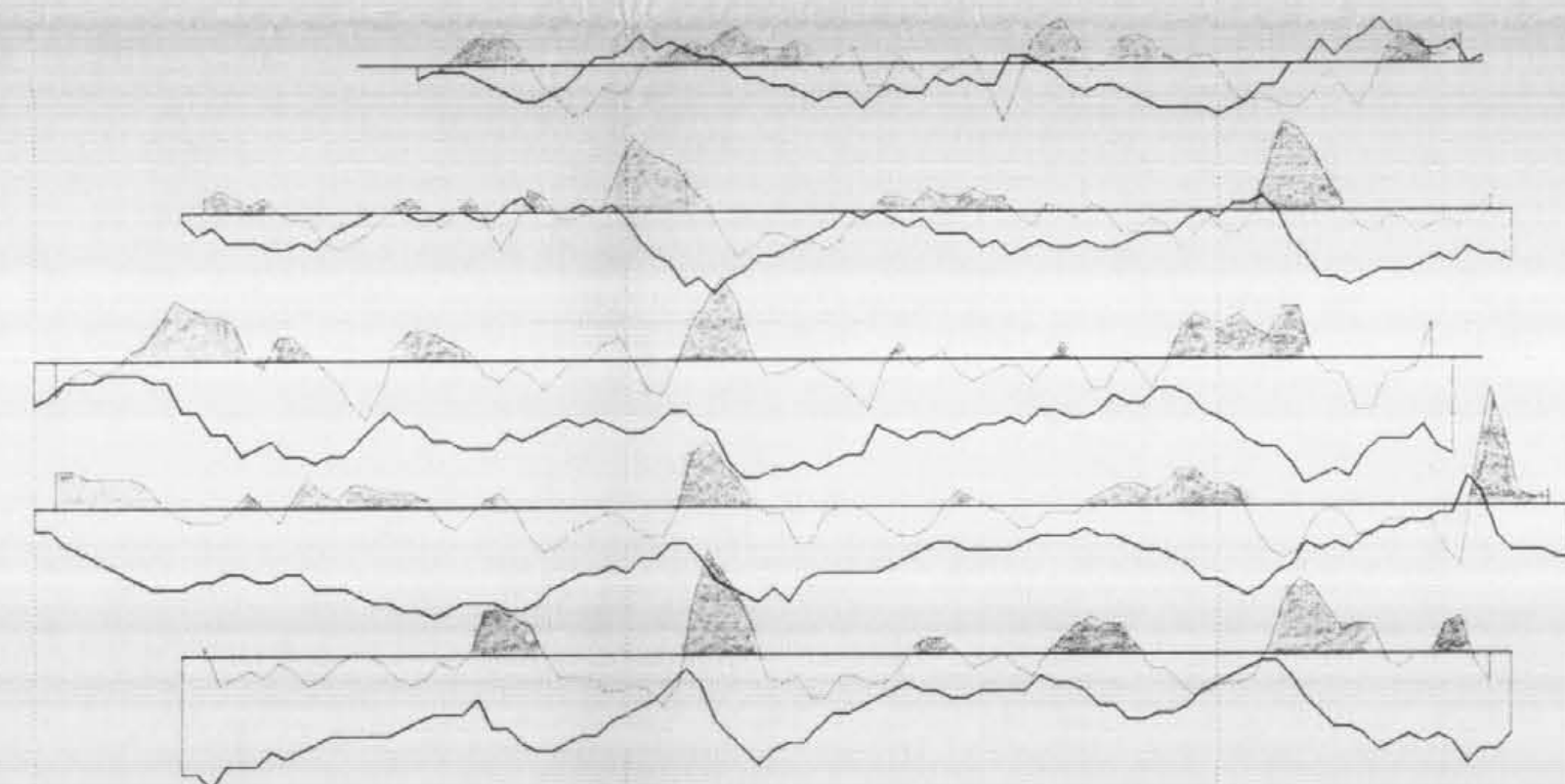
LINE 8+00 S

LINE 9+00 S

LINE 10+00 S

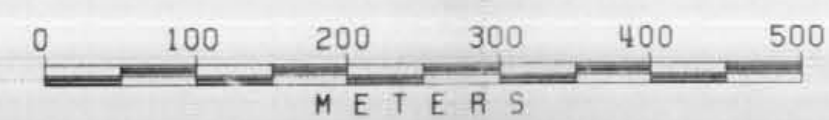
LINE 11+00 S

LINE 12+00 S

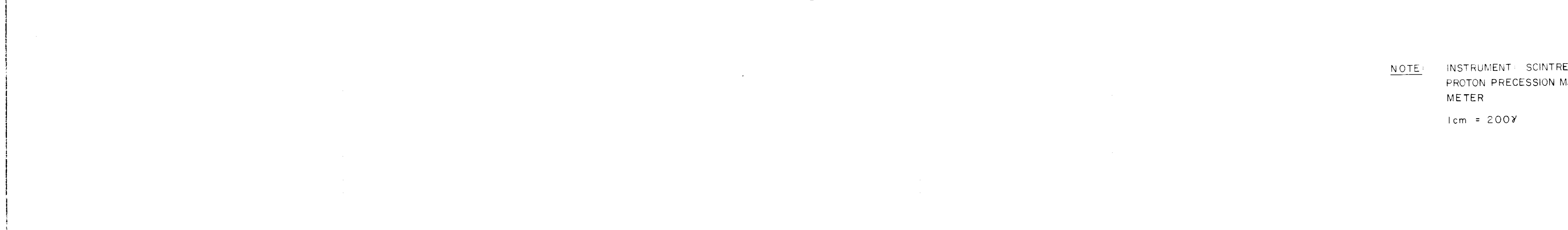
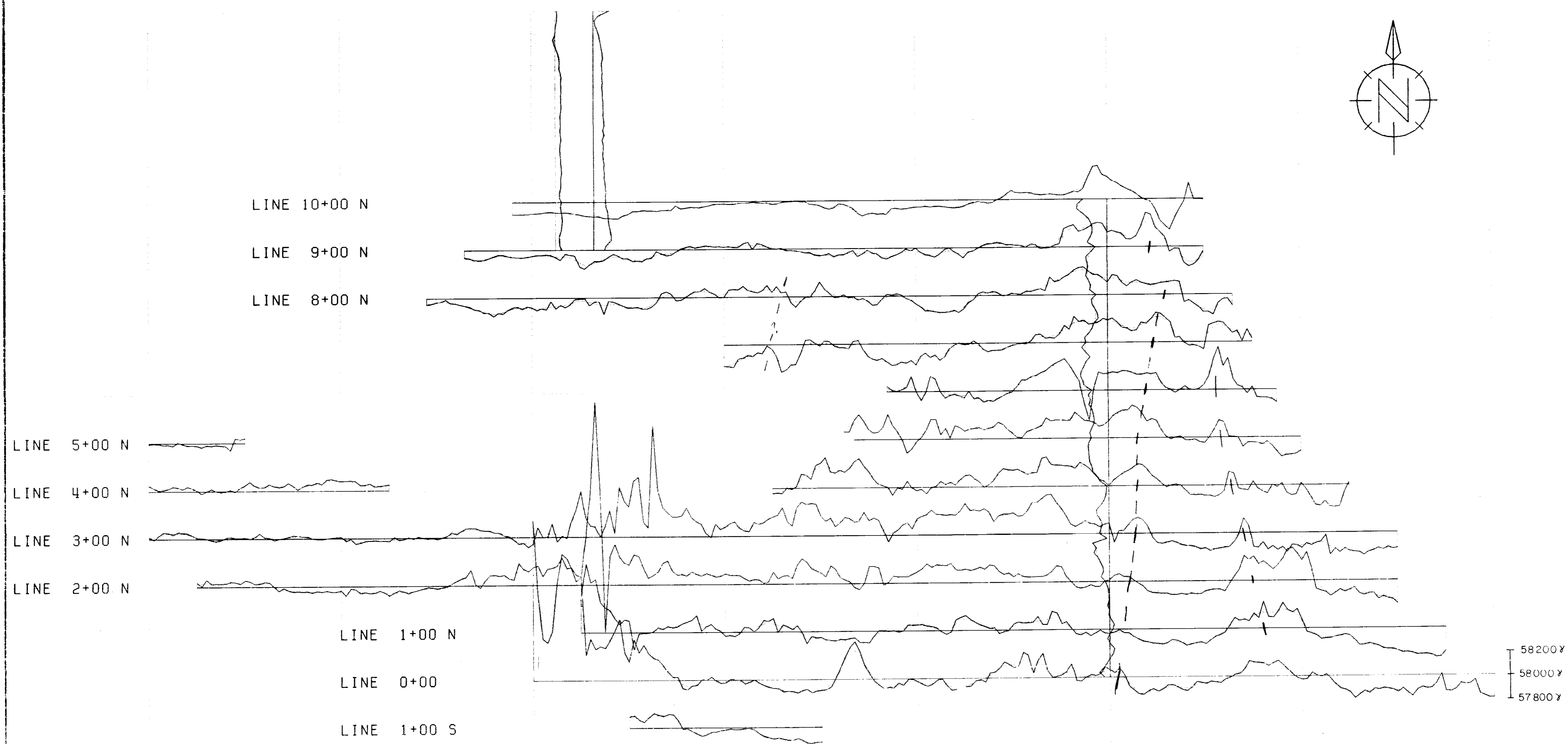
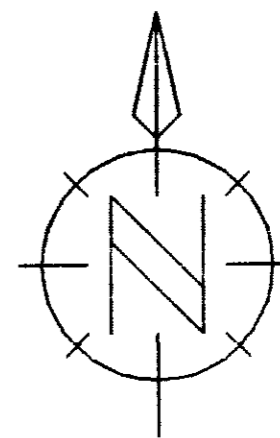


10134

Figure 17



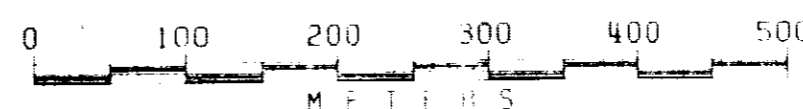
PLACER DEVELOPMENT LIMITED	
DRAWN JMT	VOLCANIC CREEK-BARHAM CREEK
SCALE 1:5000	VLF-EM PROFILES
DATE 8/20/20	NO. NTS 104 N



NOTE: INSTRUMENT SCINTREX MP-2
PROTON PRECESSION MAGNETO-
METER
1cm = 200γ

10134

Figure 16



PLACER DEVELOPMENT LIMITED	
Drawn J.M.T.	VOLCANIC CREEK-BARHAM CREEK
Scale 1:5000	GROUND MAGNETICS
Date 20/01/20	NTS 104N

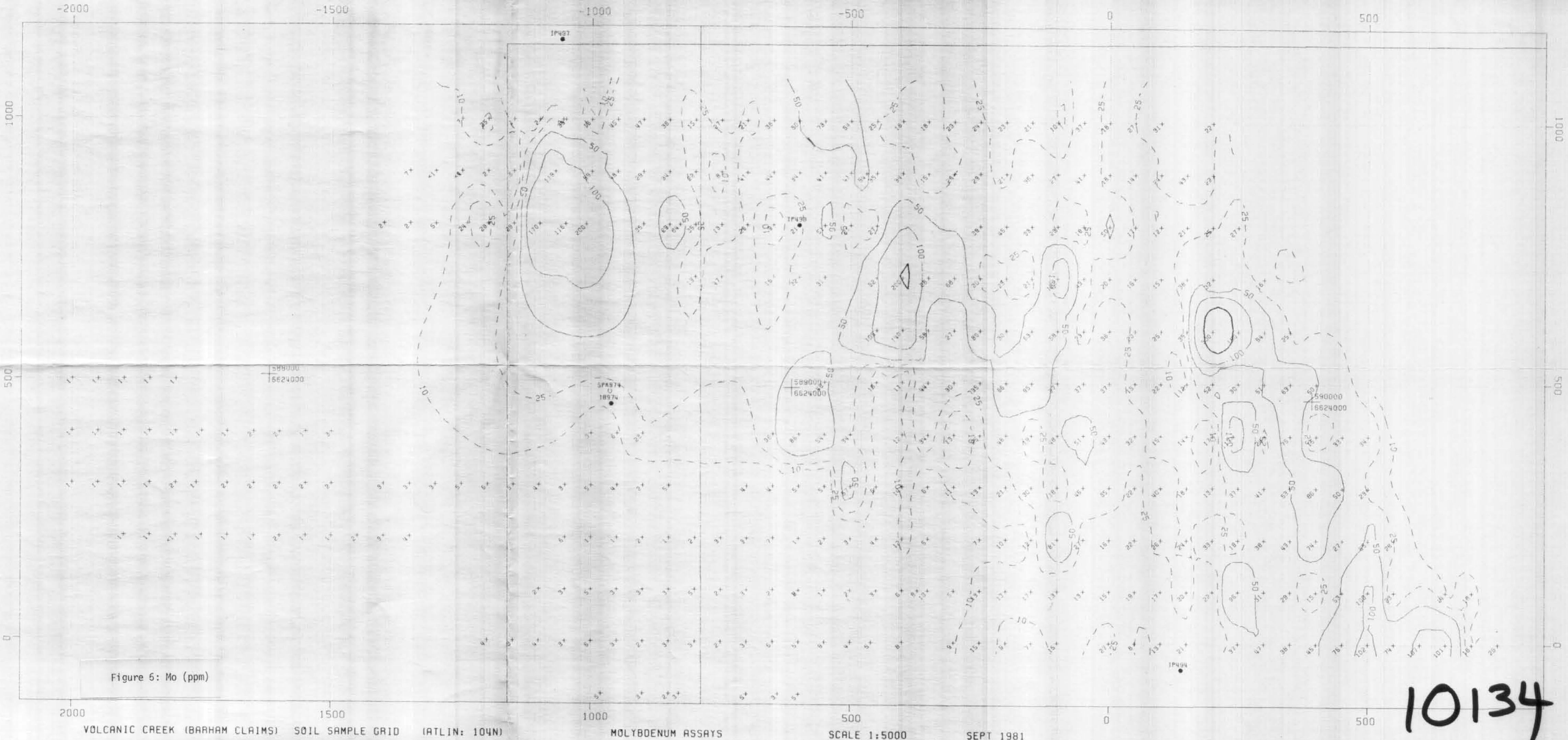


Figure 5: Mo (ppm)

10134

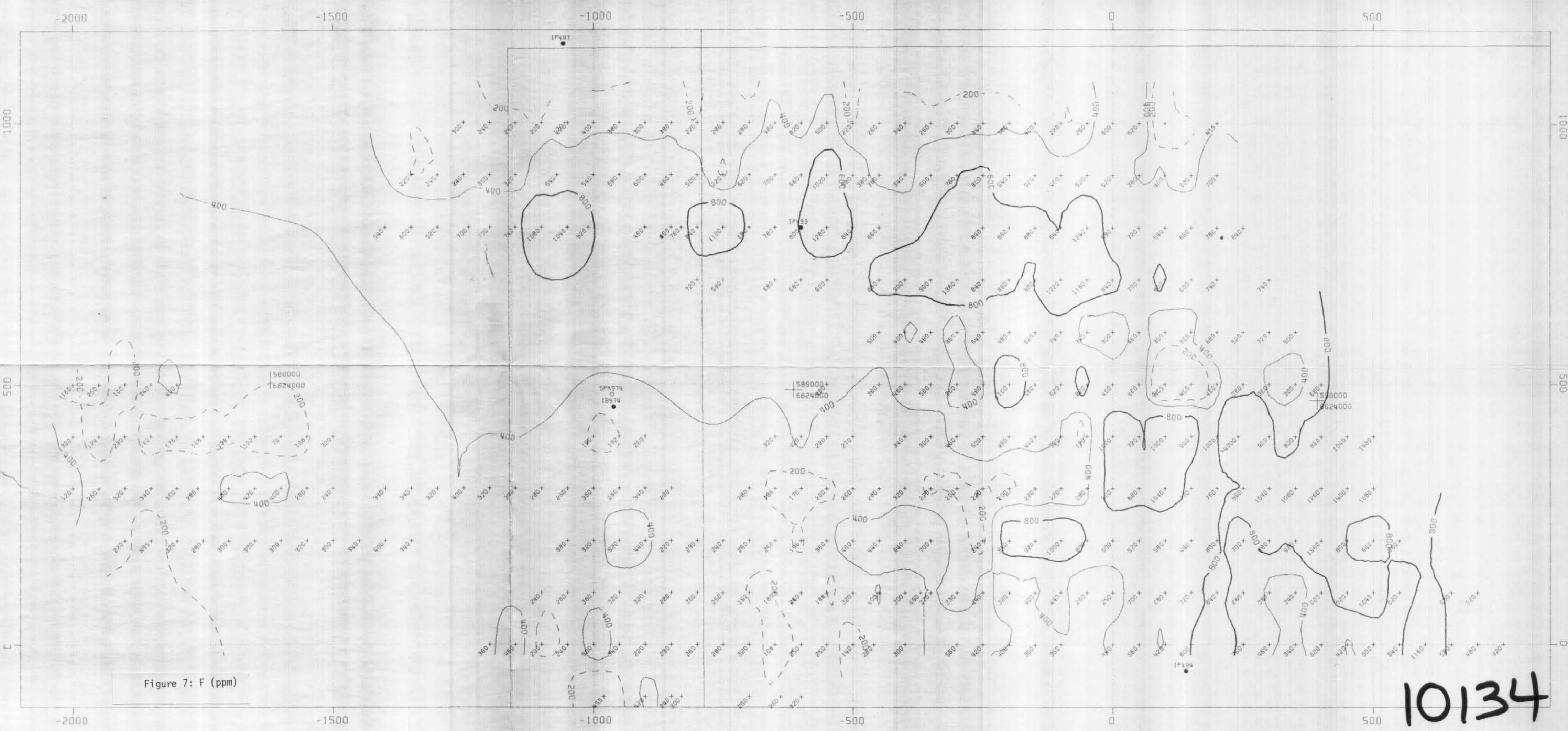


Figure 7: F (ppm)

10134

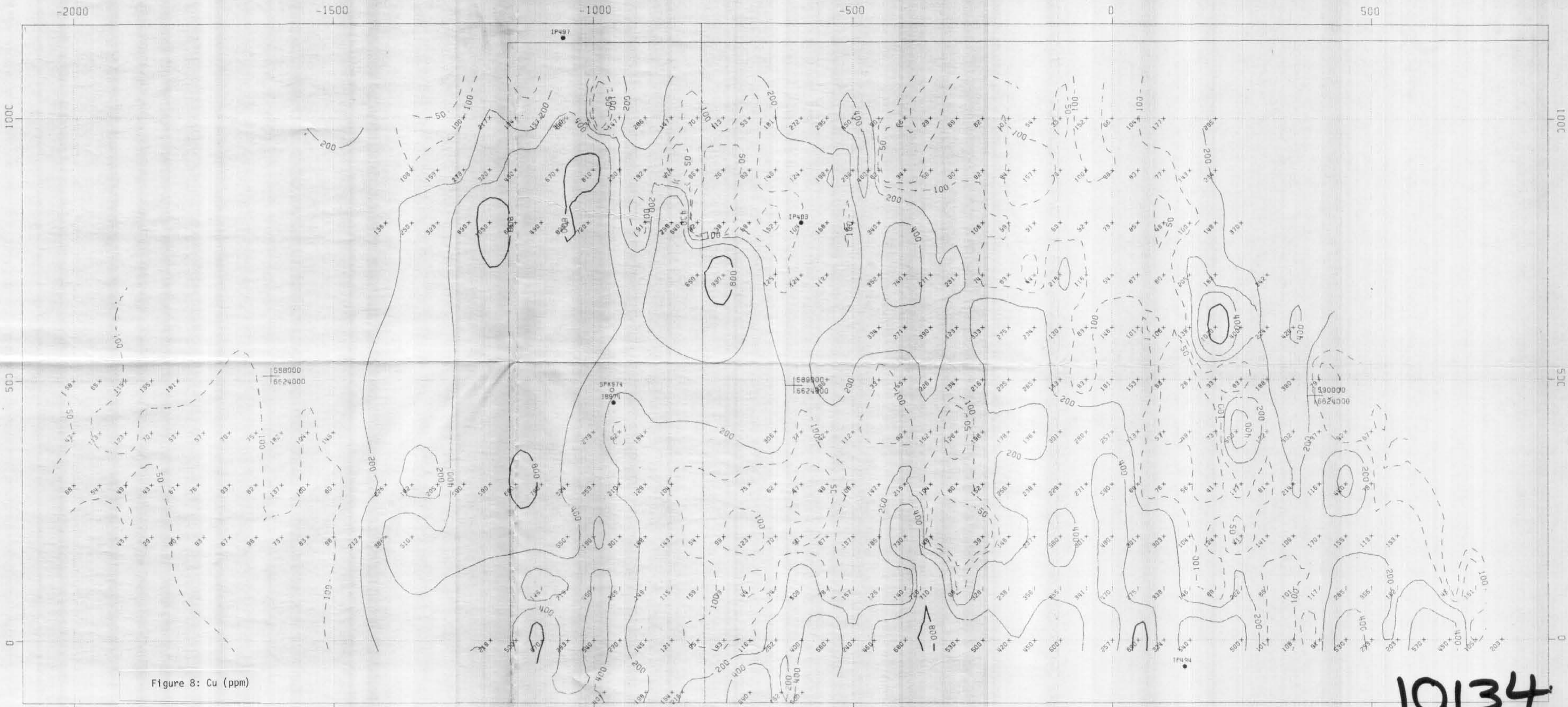


Figure 8: Cu (ppm)

10134

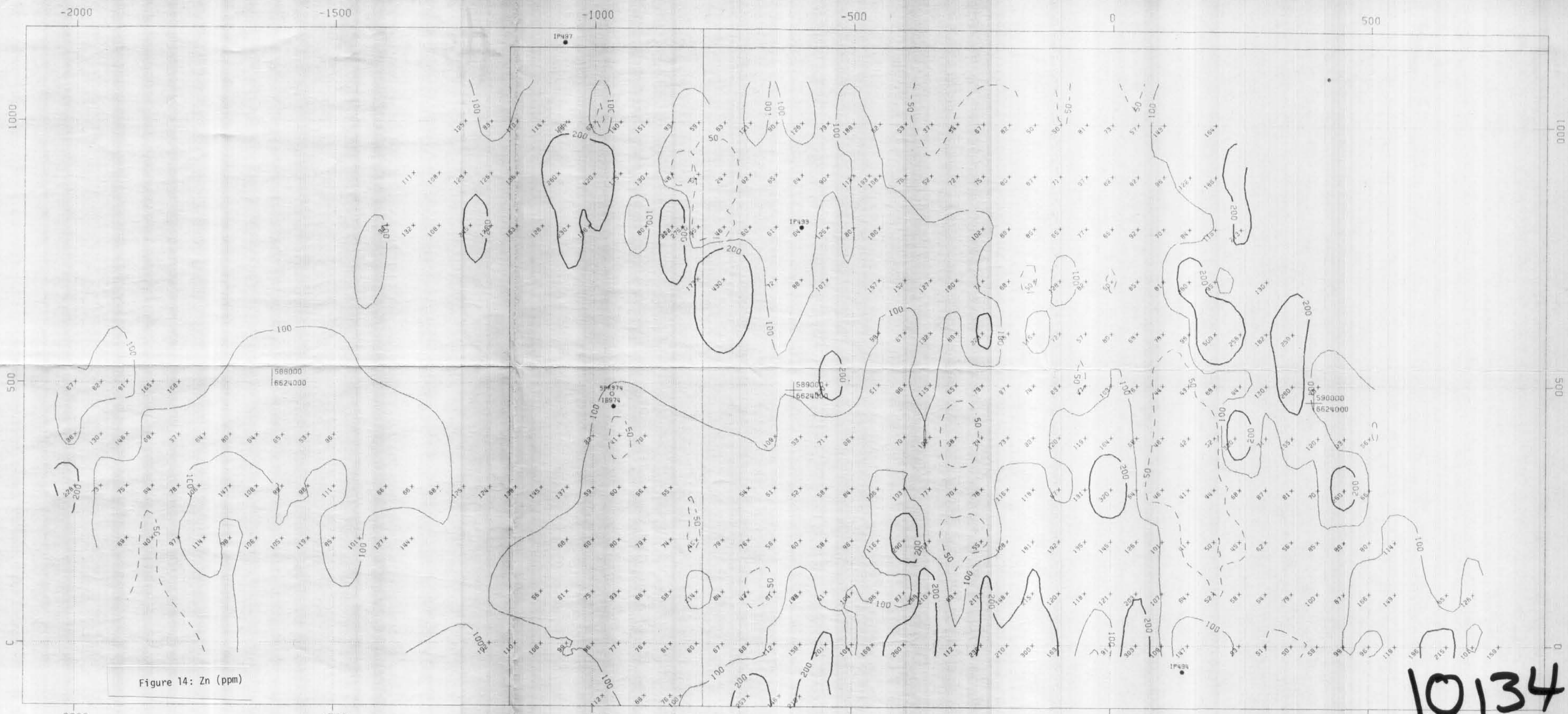


Figure 14: Zn (ppm)

10134

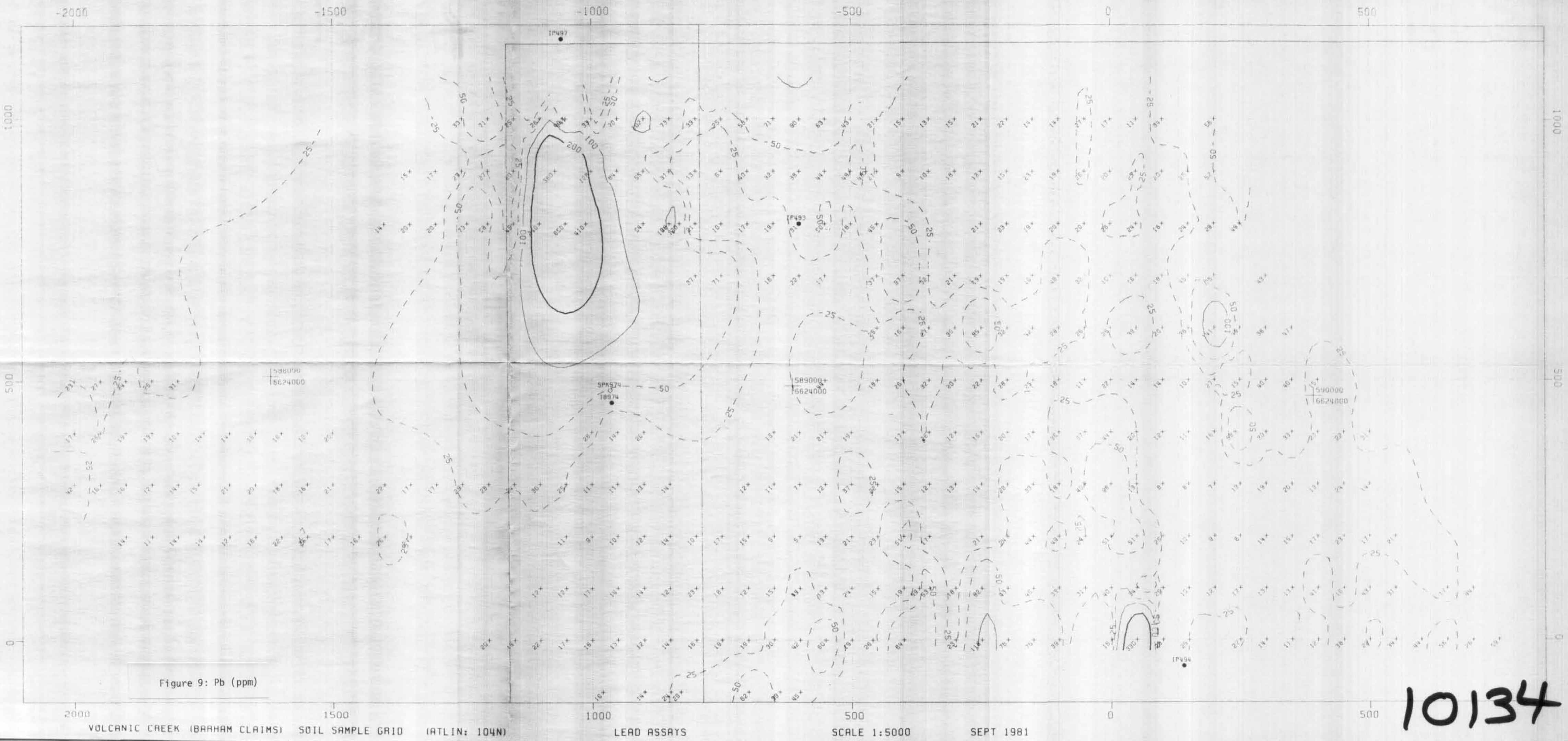


Figure 9: Pb (ppm)

10134