

GEOCHEMICAL ASSESSMENT REPORT

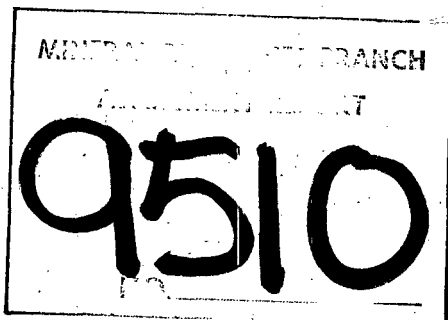
of the precious metal potential of the  
NIK 5, NIK 7 and NIK 9 claims

Owned and Operated by  
BP MINERALS LIMITED

Omineca Mining Division  
NTS 94D 9

Located approximately 10 km northeast of the airstrip  
at Johanson Lake

Long.  $126^{\circ}08'$ , Lat.  $56^{\circ}40'$



Dr. S.J. Hoffman  
Geochemist  
BP Minerals Limited

October 14, 1981

BPVR 81-10

GEOCHEMICAL ASSESSMENT REPORT OF THE PRECIOUS METAL  
POTENTIAL OF THE NIK 5, NIK 7 and NIK 9 CLAIMS

Summary

The NIK 5, NIK 7, and NIK 9 claims were assessed for their precious metal potential in 1981. The NIK 7 claim is reflected by the highest levels of gold and silver in soils and rock chips. Anomalies appear associated with chalcopyrite-bornite occurrences at the margins of pegmatite-quartz dikes cutting andesitic flow and lapilli tuff units of the Takla group. NIK 5 is associated with several zones of anomalous gold values, but additional mapping is required to the north of present anomalies to identify a favourable geological unit. NIK 9 has several zones of slightly enhanced gold values and the isolated high silver value. Continued work is recommended for NIK 7, and to a lesser extent on NIK 5.

## Recommendations

1. A grid geological investigation of NIK 7 is warranted with special attention paid to:

- a) density of pegmatitic/quartz veining
- b) thickness of veins
- c) distribution of copper and molybdenum occurrences
- d) mineralogical zoning within the pegmatites
- e) geochemical zoning within the pegmatites

The grid geological survey would be accompanied by a detailed soil survey having a sample interval of 50 metres along lines 100 metres apart.

2. NIK 5 requires extension of the current grid to include mapping of bedrock at the northern end of the claim.

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GEOCHEMICAL ASSESSMENT REPORT OF THE PRECIOUS METAL  
POTENTIAL OF THE NIK 5, NIK 7 and NIK 9 CLAIMS

Introduction

The NIK 5, NIK 7 and NIK 9 claims were evaluated over a 3 day period (July 14-16, 1981) by a two man geological and geochemical field party. The NIK 5 property was acquired in 1976 to claim chalcopryrite occurrences in acidic intrusive dikes. NIK 7 was staked to evaluate the copper and molybdenum potential of the TUNDRA prospect, a zone of chalcopryrite, molybdenite and bornite occurrences associated with pegmatite dikes and quartz veins. The NIK 9 claim was staked to protect potential extensions of mineral occurrences found on NIK 3, 4, and 8.

In recent years exploration emphasis has shifted to precious metals and in view of the occurrence of extensive copper soil anomalies within each of the claim groups, it was decided to evaluate the claim areas by geological inspection and reanalysis of new and/or available samples for metals of interest including lead, nickel, iron, manganese, gold, silver, mercury, magnesium and aluminum. Distributions of the latter two elements were evaluated in order to assist geological mapping and perhaps identify alteration zones. This report summarizes results from that work.

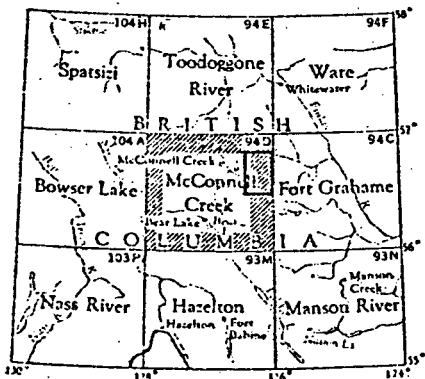
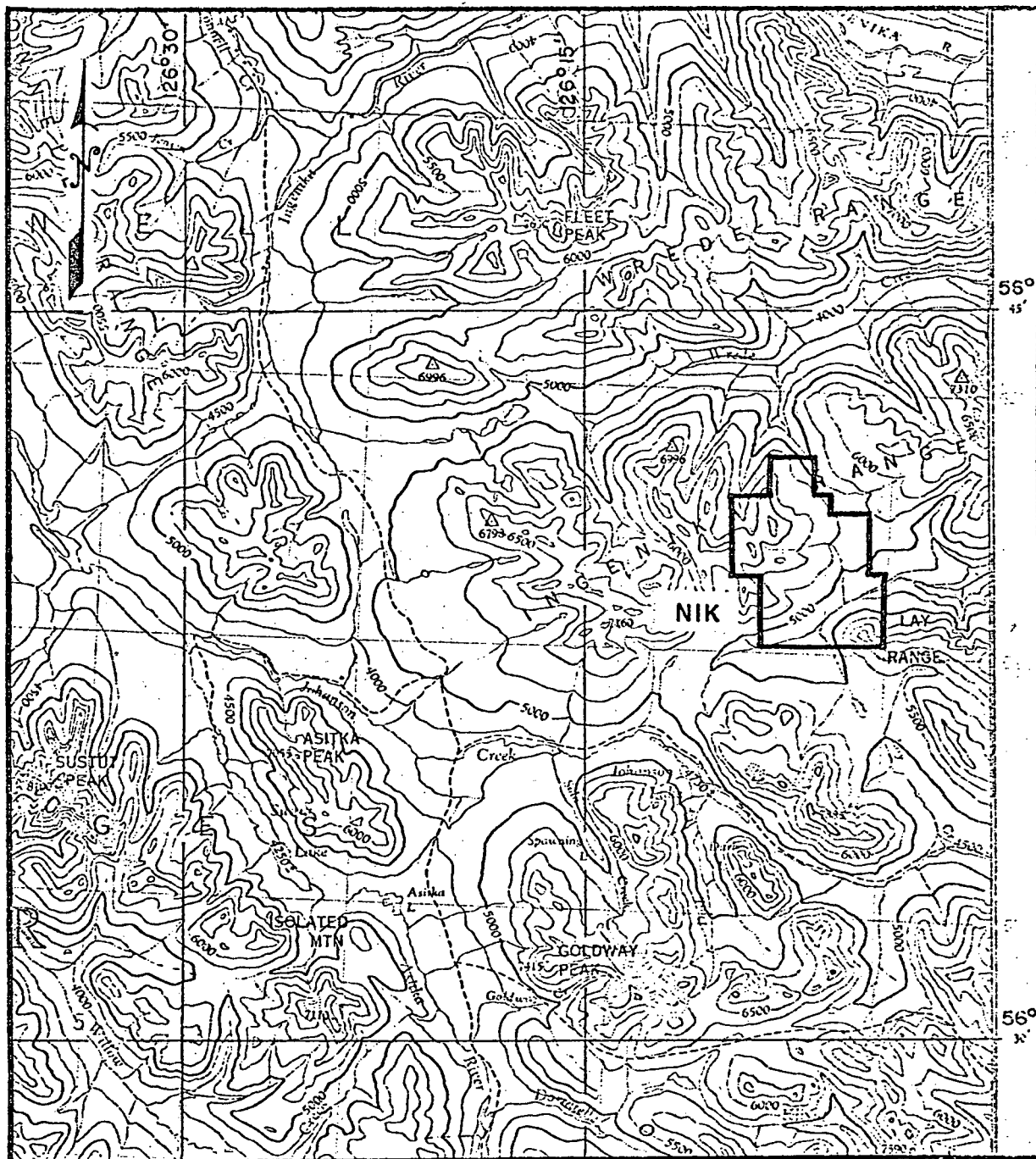
### Location and Access

The SHRED and BIRD claims lies within the Omineca Mining Division, 10 km NNE of the airstrip at Johanson Lake, B.C. (Figure 1).

Access to the claims is by helicopter from Johanson Lake located on the Omineca highway from Fort St. James.

### General Geology

The NIK 5, NIK 7 and NIK 9 claims lie within the "Quesnel Trough", a northwest trending linear belt of Mesozoic volcanic and sedimentary units separating late Paleozoic rocks of the Pinchi Geanticline in the west from Proterozoic and Paleozoic metasediments of the Omineca Geanticline in the east. The claims are underlain by Takla Group, fine to coarse grained pyroclastic and flow andesites along the south, southeastern and eastern margins of each claim unit, in contact with pyroxenite and/or peridotite rocks of the NIK claims ultramafic pluton. Plugs and dikes of diorite, monzodiorite and quartz diorite intrude claim units. A major structural zone labelled the NIK lineament trends northwestward through NIK 7. Northwestward trending thrust faults position Proterozoic and Pennsylvanian units northeast of NIK 5 and NIK 9.



**BP Minerals Limited**

**TOODOGGONE - MESILINKA, B.C.  
INGENIKA - NIK  
PROPERTY**

SCALE 1 inch = 250,000 Feet	NTS 94 D	FIG. 1
505-81-6	DATE OCT. 1981	PROJ. 505
To accompany report: <b>BPVR 81-10</b>		

Intense structural preparation combined with strong copper-molybdenum geochemical anomalies in overburden have attracted exploration interest to the area. Chalcopyrite and/or bornite occurrences are found in boulders within locally derived overburden or in bedrock. These grade up to 1 to 2% copper. The geology on these claim groups have never been tested for their precious metal potential. A positive result would upgrade the economic importance of the claims significantly. The NIK 7 claim was examined in greater detail.

#### Local Geology

##### A. NIK 5

The NIK 5 claim lies along the northern margin of the NIK ultramafic intrusion and is characterized by a zoned sequence: dunite, pyroxenite, and hornblendite, in contact with hornfelsed Takla volcanic rocks. A large intrusion of monzodiorite cuts the dunite. Numerous diorite dikes in a small, north facing cirque are associated with chalcopyrite occurrences grading up to 1% copper.

##### B. NIK 7

Country rocks in outcrop and talus blocks comprise Takla Group flows and lapilli tuffs rich in hornblende or augite phenocrysts intruded by quartz-potash feldspar pegmatites or veins erratically enriched in copper. The volcanic rocks are not hornfelsed to

amphibolite. Augite phenocrysts average 3 mm in width, smaller than the hornblende phenocrysts which average 5 mm in width. Abundant relict amygdaloidal flow clasts are up to 10 cm in length.

Copper bearing quartz-potash feldspar pegmatitic dikes intrude volcanic rocks along the length of the claim, but are most abundant from 400 to 800 metres into the traverse of Figure 5, having an apparent thickness of 400 metres. Dikes range from 1 to 30 cm in width, with an average diameter of 5 cm. They trend  $060^{\circ}$  and dip  $45^{\circ}$  to  $80^{\circ}$  NW. They are typically zoned, with coarse grained potash feldspar concentrated along the margins and quartz in the centre of the dike. A weakly magnetic, 5 cm wide, chill zone occurs along the dike margins in country rock. Chalcopyrite, bornite and malachite are erratically concentrated within the margins of the dikes, usually interstitial to the feldspar. Locally, sulfide content can approach 30%, but appears very erratic in distribution, along strike and down dip. The frequency distribution of the dikes is erratic with apparent dike swarms at 400 metres and 500 metres along the traverse of Figure 5.

#### C. NIK 9

NIK 9 is underlain predominantly by pyroxenite and hornblendite, in contact with hornfelsed volcanic units

in the southwest and lapilli tuffs and flows of the Takla group to the northeast. Numerous dikes of diorite to quartz diorite porphyry intrude the ultramafic and volcanic suite.

### Sampling Procedures

#### A. General

Rock chip samples comprising approximately 500 grams of  $\text{cm}^3$  chips were taken from bedrock or locally derived talus boulders on a contour traverse of the topographically highest portion of the claim group. The number was written on an orange flag and left on site to facilitate future followup. Samples were analyzed by Acme Analytical Laboratories in Vancouver for gold, mercury, nickel, arsenic, silver, copper, iron, manganese, lead and zinc using an aqua regio digestion. Their analytical procedures are summarized in Appendix 1. Archive soil samples were selected to evaluate the precious metal potential of the NIK 5 and NIK 9 claims. Acme Analytical undertook this phase of the evaluation using the same methods as described above for rocks.

#### B. NIK 7 Claim

The NIK 7 claim had insufficient samples on hand to attempt an evaluation based on previous experience. A geochemical prospecting traverse was initiated midway along



the west claim boundary on a heading of  $020^{\circ}$  for a distance of 1.9 km, at an elevation of between 1700 and 1900 metres. Topographic slopes are steep and mantled by talus blocks and fines. Outcrop exposure is good, generally better than 15% at this elevation. Glacial erratics from distant sources are a minor component of the boulders on the slope.

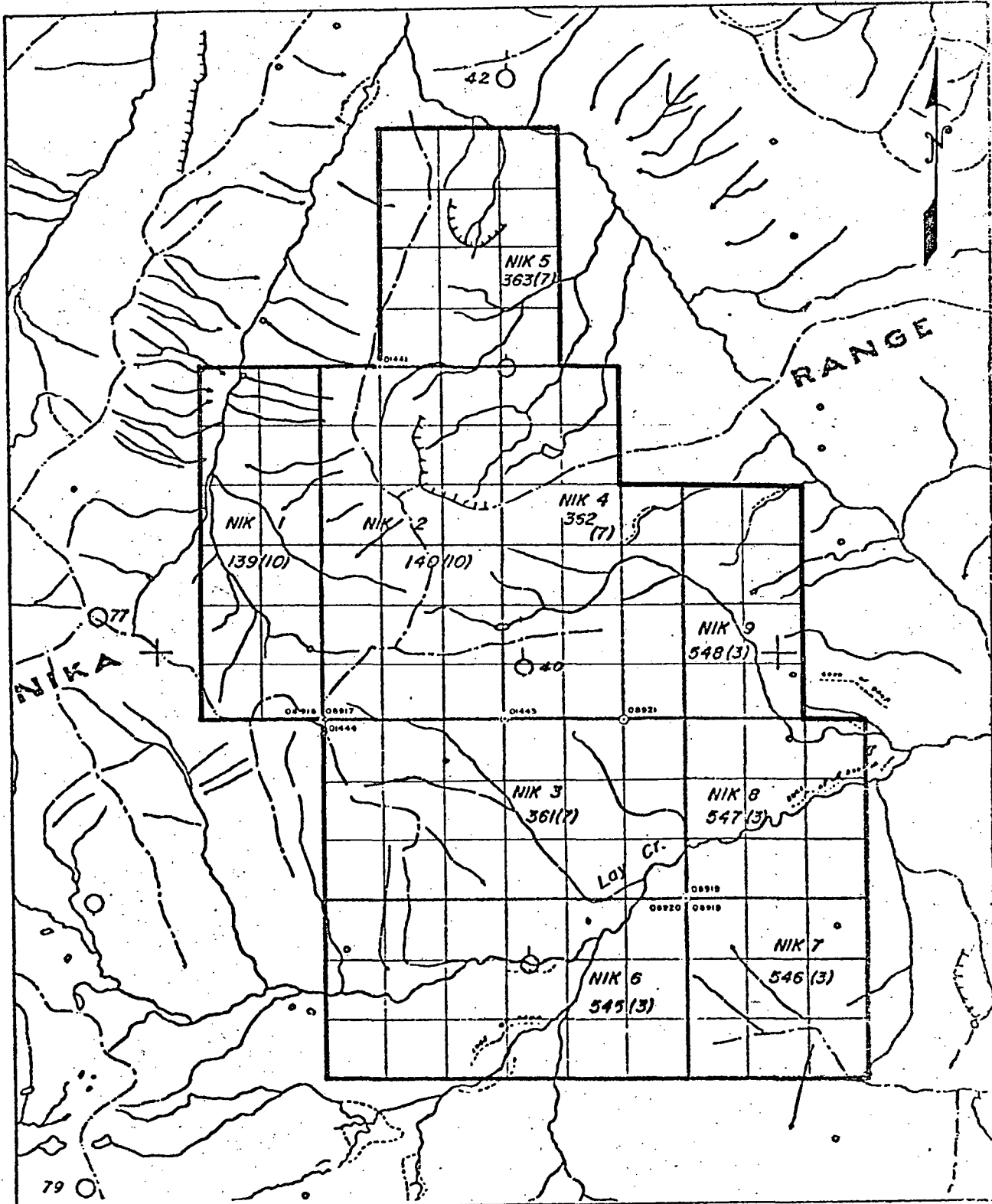
#### Claim Status (Figure 2)

1. NIK 5 (#363(7)) 12 units recorded July 19, 1976  
(300 hectares)
2. NIK 7 (#546(3)) 9 units recorded March 1, 1977  
(225 hectares)
3. NIK 9 (#548(3)) 12 units recorded March 1, 1977  
(300 hectares)

#### Description of Results

##### A. Introduction

Stream sediments (Figure 3), soil (Figure 4) and rock chip geochemistry (Figure 5) are described on the NIK 5, NIK 7, and NIK 9 claims. A symbol notation has been used to emphasize anomalous conditions which are plotted with the largest symbol. Choice of symbol size of the geochemical legend in the upper right corner of each map is based on the distribution of values on the histogram plotted immediately above the title block. Data are listed in Appendix 2.



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<b>LAND STATUS NIK CLAIMS TOODOGGONE PROJECT</b>			
SCALE 1: 50,000	NTS 94 D/9, 1E	FIG 2	
505-81-7	DATE OCT. 1981	PROJ. 505	
To accompany report: <b>BPVR 81-10</b>			

## B. Stream Sediments

### 1. Introduction

Stream sediments were analyzed only on NIK 5 (six samples) and NIK 9 (two samples). Their location is illustrated on Figure 3A. Eleven samples were tested from NIK 2 and 4 but are not described in this report.

### 2. Lead (Figure 3B)

Lead levels are all less than 9 ppm.

### 3. Nickel (Figure 3C)

The dunite body of NIK 5 is reflected by nickel values exceeding 1200 ppm.

### 4. Manganese (Figure 3D)

Manganese values are highest draining the dunite of NIK 5.

### 5. Iron (Figure 3E)

Iron values vary sympathetically with manganese.

### 6. Silver (Figure 3F)

Highest silver values are found draining the dunite.

### 7. Gold (Figure 3G)

All gold values are at the detection limit of 5 ppb.

## C. Soils

### 1. Introduction

A total of 308 soil samples were analyzed on the NIK claims. Of these 115 are from NIK 5, 15 are from NIK 7 and 99 are from NIK 9. Remaining samples are from NIK 3, NIK 4, and NIK 5 and offer comparative results across the claim area. Sample locations are given on Figure 4A.

### 2. Lead (Figure 4B)

Lead levels are enhanced in association with the small north facing cirque on NIK 5. Higher values are also found on NIK 9. Lead levels are greatest on NIK 7 where a maximum value of 79 ppm lies within a cluster of values greater than 20 ppm. With the exception of this latter zone, lead values are probably reflecting lithologic variations rather than occurrences of galena.

### 3. Nickel (Figure 4C)

Highest nickel values, in the range of 1200 to 1300 ppm, are associated with the dunite of NIK 5. Some downslope mechanical movement is indicated by the enhanced nickel values over the monzodiorite intrusion.

Hornblendite along the southeastern corner of NIK 5 and northern portion of NIK 9 are associated with regional high but locally intermediate concentrations in the range of 300 to 600 ppm nickel. By contrast hornblendite

and pyroxenite units of the southern portion of NIK 9 are relatively depleted in nickel ( $\leq 66$  ppm). Volcanic units of NIK 7 and NIK 5 are also typically indicated by soil values of less than 66 ppm. An unexplained nickel anomaly exists on the northern portion of NIK 5 in an unmapped area.

#### 4. Manganese (Figure 4D)

Manganese tends to follow iron (Figure 4E). However, notable differences are apparent. Highest general background is associated with the dunite of NIK 5 (sympathetic) and the TUNDRA chalcopyrite occurrences of NIK 7 (antipathetic). Manganese enhancement is sometimes found with mineral occurrences. The chalcopyrite-rich dikes of NIK 5 also appear to have a positive manganese association. However, manganese levels also appear to vary widely in areas underlain by volcanic, pyroxenitic and hornblenditic rocks. This undoubtedly reflects the easy mobility of manganese in the surficial environment.

#### 5. Iron (Figure 4E)

Iron levels are expected to vary in sympathy with rock type and with pedogenic processes leading to iron oxide enrichment near the top of the B soil horizon. On NIK 5, iron levels reach a maximum of 7 to 8% near the margins of the dunite phase of the ultramafic intrusion,

near the contact of the monzodiorite plug.. This relationship may be due to iron redistribution by contact metamorphism on intrusion of the monzodiorite or may reflect primary zoning in the dunite. A similar cluster of iron values is found on the northern portion of NIK 9 in an unmapped area. Perhaps dunite underlies this zone.

Volcanic units, pyroxenite, and hornblendite are usually reflected by average iron concentrations (<3.8%). Isolated high values may reflect accumulation of iron over restricted areas within the soil, pyritic units, or dunite lenses of very small dimension. High values in the north of NIK 5 are unexplained, lying in an unmapped area.

#### 6. Silver (Figure 4F)

Silver values are highest on NIK 7 (TUNDRA prospect). The size of the silver anomaly is noteworthy because it illustrates the benefits of soil sampling over bedrock chip sampling (Figure 5F) for ease of anomaly detection. The higher values of silver on NIK 5 in association with dunite are uncertain. The very high magnesium levels (Figure 4H) are suspected of contributing to an enhanced background by the analytical technique of Appendix 1. NIK 9 is associated with random high values of uncertain origin.

#### 7. Gold (Figure 4G)

Enhanced gold values cluster into district zones. On NIK 5, anomalous values of greater than 25 ppb are found in a small north facing cirque associated with chalcopyrite occurrences. The maximum value of 175 ppm lies close to a creek which is probably fault controlled.

Gold distribution on NIK 9 is more subdued. The three higher contrast to background anomalies lie at the edge of sampling. An explanation for their occurrence is not possible from evaluation of available data.

Anomalies on NIK 7 are the most outstanding of the study. Two values exceed 200 ppb and by contrast to the other claim units, average background is well above the 5 ppb detection limit.

#### 8. Magnesium (Figure 4H)

Greatest variation in magnesium content is seen on NIK 5 where the dunite body is reflected by an aqua regia leachable magnesium content of about 10% (note the computer program has not plotted the first place of decimals). Intermediate values of between 3 to 8% are associated with hornblendite along a creek on the southeastern corner of NIK 5 and northern portion of NIK 9. Hornblendite units mapped in the south of NIK 9 are geochemically very different than those to the north, being associated with magnesium values less than 1.2%.

Soils over volcanic units along the southern boundary of NIK 9 typically contain less than 1.2% magnesium. In the north on NIK 5, some higher values are located in an unmapped area.

9. Aluminum (Figure 4I)

The aluminum content of soils tends to be higher over volcanic lithologies on NIK 9 and NIK 3 and 4. By contrast aluminum content associated with the ultramafic rocks of NIK 5 and NIK 9 are relatively low at less than 1.5%. A notable exception exists on NIK 9 where an aluminum anomaly is apparently associated with pyroxenite and hornblendite. Indications of alteration zones reflecting high concentrations of clay minerals are not apparent because of the over-riding signature of rock types on the aluminum distribution.

10. Mercury (Figure 4J)

Mercury determinations were performed only on soils collected in 1981 which were air dried prior to analysis. Archive samples unfortunately had been oven dried after collection and results would not be meaningful.

The maximum mercury value is 60 ppb. This value is not outstanding.



## 11. Other Elements

With the exception of samples on NIK 7, distributions for copper, molybdenum and zinc are reported previously (BCDM report 6015). Enhanced copper values on NIK 7 (lines 267 to 275 of Appendix 2) of greater than 1000 ppm coincide with the silver anomaly of Figure 4F. Zinc values are enhanced sympathetically but contrast between lowest and highest value is only two times. Molybdenum values are enhanced to the 20 to 80 ppm level, particularly in association with the soil nickel anomaly (Figure 4C). Molybdenite was not observed in 1981 but has been reported previously in BCDM report 6015.

### D. Rock Chips

#### 1. Introduction

Sixteen rock chip samples were taken on NIK 7. One sample was taken from a molybdenite showing on NIK 2 and another from a highly siderized zone on NIK 4. Results from latter two samples are not described in this report. Figure 5A shows rock chip sample locations.

#### 2. Lead (Figure 5B)

Enhanced lead levels are found in the south of NIK 7, correlating with the soil anomaly.

3. Nickel (Figure 5C)

Nickel values are low in association with the silver soil anomaly (Figure 4F). Higher nickel values in the north correlate with an increase in the frequency of hornblendite boulders in the talus fans, suggesting hornblendite lenses might be injected into volcanic units at an elevation higher than the sample traverse.

4. Manganese (Figure 5D)

Manganese values are not unusual. This contrasts markedly with soil values which are uniformly higher.

5. Iron (Figure 5E)

Iron shows a positive relationship with nickel. One rock chip sample in the south contains an enhanced iron content.

6. Silver (Figure 5F)

The silver anomaly in rock chips is more restricted than that of soils. A maximum value of 29 ppm is found in a sample grading about 2% copper.

7. Gold (Figure 5G)

Two samples contain anomalous gold levels. Both are within the silver-rich zone.

## Discussion of Results

The 1981 sampling program was designed to investigate the precious metal potential of the NIK 5, NIK 7 and NIK 9 claims. That work identified for the first time the presence of significant silver and gold anomalies on NIK 5 and NIK 7, but failed to identify a serious mineral potential on NIK 9. Work on the latter claim suggests a revision to the geological map is necessary to explain the distribution of elements such as nickel and magnesium amongst others which are not uniform over pyroxenitic bedrock.

NIK 5 is known to be underlain by occurrences of chalcopyrite in acidic intrusive dikes up to 1 to 2 metres in diameter and grading up to 1% copper. The present work did not extend the zone of mineralized rock but did indicate some unusual geochemical signatures to the north of the mineralized, north facing cirque, in an area currently unmapped. The large monzodiorite stock is not reflected by anomalous trace element patterns. It had represented a geological target by virtue of its proximity to the mineralized dikes, but evidently is not the source of the copper. The ultramafic unit is not associated with a gold or silver potential. However, patterns of downslope dispersion by mechanical movement for nickel suggest local overburden transport is in the order of 100 to 200 metres.

Otherwise soils can be classified typically as residual for purposes of interpretation, except perhaps in low lying regions which were not visited.

NIK 7 is topographically a very difficult area to prospect rapidly. Slopes are steep and talus covered. The present study has suggested a silver and gold potential associated with the pegmatite dikes, which in places assume a linear density of 2 to 3 per metre. Two questions remain to be answered. Does the intensity of diking assume a sufficient density over a large enough area to constitute a mine? Secondly, does the orientation of the dikes indicate a source for the copper lying in the major valley below which might provide a viable target? These questions can only be answered after completion of a detailed geological survey.

### Conclusions

The geochemical investigation identified a moderate gold potential on NIK 5 and a strong gold and silver potential on NIK 7. NIK 9 is associated with minor enhancements in gold and silver values. Further study of NIK 7 and to a more limited extent NIK 5 is suggested using a geological survey.

Appendix 1  
Analytical Procedures  
Acme



## ACME ANALYTICAL LABORATORIES LTD.

Assaying &amp; Trace Analysis

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

Telephone : 253-3158

GEOCHEMICAL LABORATORY METHODOLOGY - 1981SAMPLE PREPARATION

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

Geochemical Analysis for Ag\*, Bi\*, Cd\*, Co, Cu, Fe, Mn, Mo, Ni, Pb, Sb\*, V, Zn

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

All the above elements are determined in the acid solution by Atomic Absorption.

\* denotes background correction.

Geochemical Analysis for Au

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

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

Geochemical Analysis for Au, Pd, Pt, Rh

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

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

Geochemical Analysis for As

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

As is determined in the solution by Graphite Furnace Atomic Absorption.

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Telephone : 253 - 3158

Geochemical Analysis of HgDigestion

A .50 gram sample is digested with aqua regia and diluted with 20% HCl.

Determination

Hg in the solution is determined by cold vapour AA using F & J Scientific Hg assembly. An aliquot is added to stannous chloride-hydrochloric acid solution. The reduced Hg is swept out of the solution and passed into the Hg cell where it determined by AA.

Oxalic Acid Leach of Rock, Soil & Silt Samples

A .50 gram sample is digested hot with 10 mls 5% oxalic acid solution. The oxalic acid will dissolve Fe and Mn from their oxides of M - 1 fraction (but not from magnetite & ilmenite) limonites and clays. The following metals are analysed by atomic absorption : Cu, Zn, Pb, Ni, Mo, Fe & Mn.

Cold HCl Acid Extraction

A .50 gram sample is leached with 10 ml 5% HCl solution at room temperature for 2 hours with occasional shaking. Copper is dissolved from the organic and surface layers of clay fractions.

EDTA Extraction

A .50 gram sample is leached at room temperature for 4 hours with 10 mls of 2.5% EDTA solution.

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Multi Element Analysis by ICPDigestion of Sample

0.5 gram samples are digested with hot aqua regia for one hour and the sample is diluted to 10 ml. The diluted sample is aspirated by ICP and the analytical results are printed by Telex, either in percent or ppm as shown.

Please Note : This digestion is partial for Al, Ca, La, Mg, P  
Ti, W and very little Ba is dissolved.

Report Format

HO/22N 3850W  
EGC

BURN # 1 GE16 15:46 3FEB1981

IS  
1357

MO	CU	PB	ZN	AG	NI	CO	MN	FE%	AS
3.92	41.5	9.00	136	.332	15.3	5.70	312	3.167	5.73
U	IS	TH	IS	CD	SB	BI	V	CA%	P%
4.11	.371	.424	1073	.960	1.94	4.51	52.7	1.107	.206
LA	IN	MG%	BA%	TI%	B	AL%	IS	IS	W
22.1	3.50	.2589	.0184	.0014	-.05	1.720	0	3.06	.276

\*O/M1  
EGC

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1358

.563	29.3	34.6	171	.154	33.4	11.5	794	2.536	8.77
3.57	.044	2.79	765	1.08	.635	4.25	54.8	.6452	.109
6.42	2.88	.6008	.0252	.0753	-.37	1.944	0	2.32	-.61

Code :

HO, \*O, EGC  
/22N 3850 W  
/M1  
15:46 3FEB1981  
BURN # 1 GE16  
IS

Computer Instructions.  
Sample Number.  
ACME Geochem standard for quality control.  
Time and Date of Analysis.  
Geochem Computer Program.  
Internal Standard.





## ACME ANALYTICAL LABORATORIES LTD

Assaying &amp; Trace Analysis

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

Telephone : 253 - 3158

Interpretation of Results

Standard M-1 is a certified geochem standard used to monitor the results. M-1 has the following analysis.

1.	Mo	:	in ppm	M1	2.	ppm
2.	Cu	:	in ppm	M1	28.	ppm
3.	Pb	:	in ppm	M1	38.	ppm
4.	Zn	:	in ppm	M1	180.	ppm
5.	Ag	:	in ppm	M1	0.3	ppm
6.	Ni	:	in ppm	M1	32.	ppm
7.	Co	:	in ppm	M1	12.	ppm
8.	Mn	:	in ppm	M1	800.	ppm
9.	Fe	:	in %	M1	2.5	%
10.	As	:	in ppm	M1	8.	ppm
11.	U	:	in ppm	M1	3.	ppm
12.	IS	:	Internal Standard.			
13.	Th	:	in ppm	M1	3.	ppm
14.	IS	:	Internal Standard.			
15.	Cd	:	in ppm	M1	2.	ppm
16.	Sb	:	in ppm	M1	3.	ppm
17.	Bi	:	in ppm	M1	2.	ppm
18.	V	:	in ppm	M1	54.	ppm
19.	Ca	:	in %	M1	0.62	%
20.	P	:	in %	M1	0.11	%
21.	La	:	in ppm	M1	8.	ppm
22.	In	:	in ppm	M1	2.	ppm
23.	Mg	:	in %	M1	0.67	%
24.	Ba	:	in %	M1	0.023	%
25.	Ti	:	in %	M1	0.07	%
26.	B	:	in ppm	M1	12.	ppm
27.	Al	:	in %	M1	1.9	%
28.	IS	:	Internal Standard.			
29.	IS	:	Internal Standard.			
30.	W	:	in ppm	M1	1.	ppm

*As channel**- CV  
- NB*Notes:

1. Zinc over 5000 ppm interferes on W channel.
2. Iron over 1. % interferes on In and Sb channel.

Monitoring of Results:

If analysis of standard M-1 is different than the certification, then compensate (add or subtract) samples appropriately.

Standardization:

Complete set of USGS standards, Canadian Certified Reference Materials and 72 specpure metals from Johnson Matthey.

Appendix 2

List of Data

GENERAL

- 1.2 SAMPLE TYPE
  - 10. Stream sediment
  - 11. Stream water
  - 27. Seepage (spring) sediment
  - 21. Seepage (spring) water
  - 30. Lake sediment - lake center
  - 31. Lake water
  - 32. Lake sediment - near shore
  - 43. Bog-upper 100 cm
  - 41. Bog-stagnant water
  - 42. Bog-below 100 cm
  - 43. Bog-organic material at mineral horizon interface
  - 44. Bog-mineral horizon
  - 53. Soil-top of the B horizon (or top of the C horizon if B horizon absent)
  - 51. Soil-other horizons (organic-rich samples or when 2 samples taken at same hole)
  - 52. Frost boil
  - 53. Seepage boil
  - 55. Deep overburden sample
  - 56. Intermediate overburden
  - 57. Sample (depth determined in field)
  - 53. Talus fines-mid slope
  - 61. Talus fine-in gully
  - 62. Talus fines-base of slope
  - 63. Talus blocks-hand sample
  - 64. Talus block-chips
  - 70. Biogeochemical
  - 73. Racoon-track etch
  - 75. Racoon-Alpha Meters
  - 77. Racoon-emanometers
  - 60. Bedrock hand sample
  - 81. Bedrock chips - hand sample
  - 52. Float hand sample
  - 83. Float chips - hand sample
  - 24. Drill core specimens
  - 25. Channel sample
  - 26. Drill sludge
  - 27. Drill chips
  - 29. High grade sample
  - 30. Special sample-specify clearly label if high grade
- 3.4 YEAR
- 5-7 PROJECT NUMBER
- PROJECT IDENTIFICATION
  - Blank reconnaissance
  - A, B, C, etc. - properties, anomalies (List 6)
- 9 DUPLICATE SAMPLES
  - \*Scar both samples (collect T in 30)
- 10, 11 SAMPLER IDENTIFICATION
  - +12 (List 7)
- 12-15 SAMPLE NUMBER
  - or leave out all numbers ending in 00 and 50
- 17, 18 UTM ZONE
  - see NTS map sheets; for properties use
  - XX Property-feet
  - YY Property-meters
  - ZZ Property-other
- 19-24 EAST COORDINATE
- 25-31 NORTH COORDINATE
- 34-38 MAP SHEET NUMBER

- 42 PRECIPITATE
  - 1. Record colour (report presence of precipitate in immediate vicinity in stream bed. If heavy precipitate, sample separately).
- 43 OVERBURDEN TRANSPORT
  - L. Local M. Mixed local
  - E. Extensive & extensive
  - U. Unknown
- 45 OVERBURDEN ORIGIN
  - 1. Till-angular boulders
  - 2. Outwash-sandy, rounded boulders
  - 3. Lake sediment-sand/silt
  - 4. Alluvium-stream deposit
  - 5. Peat-bog
  - 6. Colluvium
  - 7. Lake sediment-clay
  - 8. Talus
  - 9. Residual
  - A. Frost boil\* use only if
  - B. Seepage boil\* former origin
  - C. Boulder field\* cannot be
  - D. Gravel\* identified
  - E. Soil\*
- 46 BEDROCK
  - M. Mineralized
  - P. Present within 100m-200m upslope
  - D. Present within 100m-200m downslope
  - B. Underlies sample site
  - G. Gossan
  - F. Fe surface stains
  - R. Radioactivity
- 47, 48 pH
- 49 SAMPLE TEXTURE
  - 0. Organic-decomposed
  - 1. Clay
  - 2. Silt and fine sand
  - 3. Sand
  - 4. Gravel
  - 5. Frozen
  - 6. Cemented
  - 7. Precipitate
  - 8. Twigs or undecomposed organic matter
- 50-52 AVERAGE WIDTH OF STREAM-M
  - decimal point in col 51 (or col 52 if stream > 10 m wide)
- 53-55 AVERAGE DEPTH OF STREAM-CM
- 56 STREAM VELOCITY
  - 1. Dry
  - 2. Stagnant
  - 3. Slow
  - 4. Moderate
  - 5. Fast
  - 6. Turbulent
- 57 INDICATE AS TRIBUTARY
  - R. Stream enters on right looking down main stream
  - L. Stream enters on left looking down main stream
- 58-60 LOCAL BEDROCK COMPOSITION
  - Estimate-use lists 1-4
- 61 COLOUR-STREAM SEDIMENTS
  - 1. Colour noted in information
- 63-66 CONDUCTIVITY-WATER
- 67 CONTAMINATION
  - Blank-none
  - P. possible
  - D. definite
- 68 ORGANIC FRACTION
  - 1. Minor amount of undecomposed twigs, leaves, etc.
  - 2. Large amount of undecomposed twigs, leaves, etc.
  - 3. Minor amount of well-decomposed vegetation
  - 4. Large amount of well-decomposed vegetation
  - 5. Mosses
  - 6. Some sediment grains coated in organic matter
  - 7. All sediment grains coated in organic matter
  - 8. Looks like lake sediment material

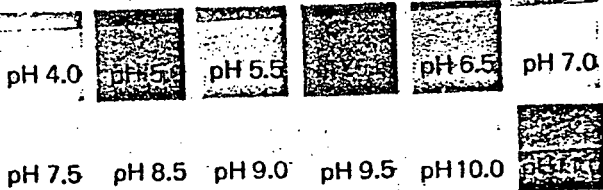
- 69 MINERAL FRACTION
  - 1. Primarily light coloured silicate minerals
  - 2. Primarily carbonate sand
  - 3. Minor, but notable content of mafic minerals, restates etc.
  - 4. High proportion of mafics, restates
- 71 GAMMA SOLID ANGLE
  - 1. Ridge 5. A
  - 2. Flat surface (2π) 6. B
  - 3. Base of section (3π) 7. C
  - 4. Deep gullies (4π) 8. D
- 72-75 GAMMA COUNT AT SAMPLE SITE
- 76 ROCK
  - \*If bedrock is influencing scint counts
- 77, 78 APPROXIMATE SLOPE ANGLE
- 79, 80 APPROXIMATE SLOPE DIRECTION
- SOILS
- 40 SITE TOPOGRAPHY
  - 1. Hill Top
  - 2. Gentle slope
  - 3. Steep slope > 20°
  - 4. Base of slope
  - 5. Valley floor
  - 6. Depression
  - 7. Level
  - 8. Rolling
  - 9. Bog
- 41 SAMPLE ENVIRONMENT
  - 1. Tundra-hummocky
  - 2. Tundra-dry
  - 3. Tundra-swampy
  - 4. Grassland, meadows
  - 5. Peat mounds
  - 6. Bog in depression
  - 7. Forest-coniferous
  - 8. Forest-deciduous
  - 9. Forest-mixed
  - A. Alder or willows
  - B. Cultivated land
  - C. Desert, semi-arid
  - D. Barren
  - E. Talus fan
  - F. Bank soil-stream
  - G. Bank soil-lake
  - H. Road cut
- 42 SITE DRAINAGE
  - 1. Dry
  - 2. Moist
  - 3. Wet
  - 4. Saturated
- 43 OVERBURDEN TRANSPORT
  - L. Local
  - E. Extensive
  - U. Unknown
  - M. Mixed - two sources
- 44 WATER MOVEMENT
  - S. Seepage
- 45 OVERBURDEN ORIGIN
  - 1. Till-angular boulders
  - 2. Outwash-sandy, rounded boulders
  - 3. Lake sediment-sand/silt
  - 4. Alluvium-stream deposit
  - 5. Peat-bog
  - 6. Colluvium
  - 7. Lake sediment-clay
  - 8. Talus
  - 9. Residual
  - A. Frost boil\* use only if
  - B. Seepage boil\* formed origin
  - C. Boulder field\* cannot be
  - D. Gravel\* identified

- 49 SAMPLE TEXTURE
  - 0 Organic muck
  - 1. Fibrous, peaty organic matter
  - 2. Very sandy
  - 3. Sandy
  - 4. Sand-silt
  - 5. Sand-silt-clay
  - 6. Silt
  - 7. Silt-clay
  - 8. Clay
  - 9. Gravel
- 50, 51 TOP OF SAMPLE INTERVAL-CM
- 52-54 BOTTOM OF SAMPLE INTERVAL-CM
- 55, 56 SOIL HORIZON
  - LH. Leaf, humus layer, undecomposed vegetation lying on the ground surface (do not sample)
  - AH. Dark grey to black, organic-rich mineral horizon usually no deeper than 15 cm from the surface (do not sample)
  - AE. Grey to white (occasionally brown) leached mineral horizon near ground surface, usually sandy; accompanied by BF or BT horizon at depth (no not sample)
  - BH. Black, organic-rich mineral horizon at depths greater than 15 cm (do not sample)
  - BF. Red brown, iron-rich horizon
  - BT. Brown, clay-rich horizon
  - BG. Horizon which is water-saturated most of the year, identified by red brown mottles
  - BM. Brown horizon which is only slightly different in appearance from underlying parent material
  - Cl. C2, C3, etc.-Parent material for soil
  - CA. White calcium carbonate precipitate in C horizon
  - 01, 02, 03 etc.-Bog samples at various depths
  - TF. Talus fines
- 57 SOIL TYPE
  - C. Chernozem-prairie soil usually under grassland or meadow, thick Ah > 10cm CA horizon at depth
  - S. Solonetz-saline soil, high content of NaCl
  - L. Luvisol-BF horizon diagnostic
  - P. Podzol-BF horizon diagnostic
  - B. Brunisol-BM horizon is only B horizon of profile
  - R. Regosol-little or no soil development. No B soil horizon, only LH (maybe) and C horizon
  - G. Gleysol-BG horizon diagnostic
  - 0. Organic soil-bog vegetation-no mineral matter
- 58-60 LOCAL BEDROCK COMPOSITION
  - Estimate-use lists 1-4
- 61-66 COLOUR
  - Munsell notation or abbreviation
- 67 CONTAMINATION
  - Blank-none
  - P. possible
  - D. definite
- 68-69 COARSE FRAGMENTS
- 70 SHAPE OF COARSE FRAGMENTS
  - A. Angular
  - B. Rounded
  - S. Subrounded, subangular
  - M. Mixed above types
- 71 GAMMA SOLID ANGLE
  - 1. Ridge 5. A
  - 2. Flat surface (2π) 6. B
  - 3. Base of section (3π) 7. C
  - 4. Deep gullies (4π) 8. D
- 72-75 GAMMA COUNT AT SAMPLE SITE
  - Scint reading at ground level over hole
- 76 ROCK
  - \*If bedrock is influencing scint counts
- 77, 78 APPROXIMATE SLOPE ANGLE
- 79, 80 APPROXIMATE SLOPE DIRECTION

- 1-- INTRUSIVE ROCKS
  - 1- QUARTZ RICH
  - 1- Granite
  - 2- Quartz Monzonite
  - 3- Granodiorite
  - 4- Quartz diorite
  - 2- INTERMEDIATE
  - 1- Syenite
  - 2- Monzonite
  - 3- Diorite
  - 4- Gabbro
  - 3- FELDSPATHOID RICH
  - 1- Nepheline syenite
  - 2- Nepheline monzonite
  - 40 ULTRABASIC
  - 50 CARBONATITES
  - 60 SPECIAL TYPES
  - 1- Pegmatite
  - 2- Aplite
  - 3- Lamprophyre
  - 4- Trap
  - 5- Felsite
  - 6- Intrusion breccia
  - 7- Diabase
- LIST 2
- 2-- VOLCANIC ROCKS
  - 0- UNDIFFERENTIATED
  - 1- BASALT
  - 2- ANDESITE
  - 3- DACITE
  - 4- RHYOLITE
  - 5- QUARTZ LATITE
  - 6- LATITE
  - 7- TRACHYTE
  - 8- PHONOLITE
  - 9- NEPHELINE LATITE
  - 1- Fine grained flows
  - 2- Prophyritic flows
  - 3- Crystal tuffs
  - 4- Ash tuffs
  - 5- Lapilli tuffs
  - 6- Agglomerate
  - 7- Lapilli breccia
  - 8- Block breccia
  - 9- Turbidite
- LIST 3
- 3-- SEDIMENTARY ROCKS
  - 1- ARENACEOUS
  - 1- Siltstone
  - 2- Mudstone
  - 3- Greywacke
  - 4- Sandstone
  - 5- Quartzite
  - 6- Conglomerate
  - 2- ARGILLACEOUS
  - 1- Shale
  - 2- Argillite
  - 3- CALCAREOUS
  - 1- Limestone
  - 2- Dolomite
  - 4- CHEMICAL PRECIPITATE
  - 1- Chert
  - 2- Marble
  - 3- Iron formation
- LIST 4
- 4-- METAMORPHIC ROCKS
  - 1- FINE GRAINED CONTACT
  - 2- PHANERITIC
  - 1- Meta quartzite
  - 2- Marble
  - 3- Soapstone
  - 4- Hornfels
  - 5- Serpentine
  - 6- Skarn
  - 7- Amphibolite
  - 8- Eclogite
  - 3- MECHANICAL
  - 1- Mylonite
  - 2- Flaser
  - 3- Augen
  - 4- Ultramylonite
  - 40 SLATE
  - 50 PHYLLITE
  - 60 SCHIST
  - 7- GNEISS
  - 8- MICHAELITE
  - 1- Granite
  - 2- Monzonite
  - 3- Granodiorite
  - 4- Conglomerate
  - 5- Sandstone
  - 6- Augen
  - 7- Granulite
  - 8- Quartz diorite
  - 9- Diorite
  - 0- Amphibolite

STREAM SEDIMENTS

- 40 SAMPLE ENVIRONMENT
  - 1. Next to bank
  - 2. Behind boulders
  - 3. Among roots below stream bank
  - 4. Middle of stream
  - 5. Among grass or reeds of creek bed
  - 6. Bar in creek
  - 7. Middle-very wide, shallow creek
  - 8. Base of slope
  - 9. Composite across stream
  - A. Soil



STREAM & SEEPAGE SEDIMENT SAMPLE CODING KEY

RECORD NUMBER	SAMPLE TYPE	YEAR	PROJECT CODE	PROPERTY CODE 1 <small>(MULTIPLY NOTATION)</small>	SAMPLE NUMBER	ZONE	UTM EAST	UTM NORTH	NTS MAP SHEET	PROPERTY CODE 2	SAMPLE ENVIRONMENT	PRECIPITATE	OVERBURDEN TRANSPORT	OVERBURDEN ORIGIN	BEOROCK	pH	SAMPLE TEXTURE	AVERAGE WIDTH OF STREAM-M	AVERAGE DEPTH OF STREAM-CM	STREAM VELOCITY	INDICATE AS TRIBUTARY	GEOLOGY	COLOUR-STREAM SEDIMENTS	CONDUCTIVITY-WATER	CONTAMINATION	ORGANIC FRACTION	MINERAL FRACTION	GAMMA SOLID ANGLE	SCINTILLOMETER READING-cps	OUTCROP	DIRECTION AND SLOPE OF STREAM FLOW	ppm U	ppm Cu	ppm Pb	ppm Co	ppm Ni	ppm Mo	ppm Mn	% Fe
6	1G794126	1979	126	235284	236077	YY	57359274	16454	86J1485	U	L	U	L	U	U	6.9	31	1	104	111	111	111	111	111	111	4.1	130	130	2	1A	0.5	14	14	32	32	64	64	64	64
7	1G794126	1979	126	235281	235281	YY	57359274	16454	86J1485	U	L	U	L	U	U	6.9	31	1	104	111	111	111	111	111	111	4.1	130	130	2	1A	0.5	14	14	32	32	64	64	64	64
8	1G794126	1979	126	235282	235282	YY	57359274	16454	86J1485	U	L	U	L	U	U	6.9	31	1	104	111	111	111	111	111	111	4.1	130	130	2	1A	0.5	14	14	32	32	64	64	64	64
9	1G794126	1979	126	235283	235283	YY	57359274	16454	86J1485	U	L	U	L	U	U	6.9	31	1	104	111	111	111	111	111	111	4.1	130	130	2	1A	0.5	14	14	32	32	64	64	64	64
10	1G794126	1979	126	235284	235284	YY	57359274	16454	86J1485	U	L	U	L	U	U	6.9	31	1	104	111	111	111	111	111	111	4.1	130	130	2	1A	0.5	14	14	32	32	64	64	64	64

SOIL SAMPLE CODING KEY

RECORD NUMBER	SAMPLE TYPE	YEAR	PROJECT CODE	PROPERTY CODE 1 <small>(MULTIPLY NOTATION)</small>	SAMPLE NUMBER	ZONE	UTM EAST	UTM NORTH	NTS MAP SHEET	PROPERTY CODE 2	SAMPLE ENVIRONMENT	PRECIPITATE	OVERBURDEN TRANSPORT	OVERBURDEN ORIGIN	BEOROCK	pH	SAMPLE TEXTURE	AVERAGE WIDTH OF STREAM-M	AVERAGE DEPTH OF STREAM-CM	STREAM VELOCITY	INDICATE AS TRIBUTARY	GEOLOGY	COLOUR-STREAM SEDIMENTS	CONDUCTIVITY-WATER	CONTAMINATION	ORGANIC FRACTION	MINERAL FRACTION	GAMMA SOLID ANGLE	SCINTILLOMETER READING-cps	OUTCROP	DIRECTION AND SLOPE OF STREAM FLOW	ppm U	ppm Cu	ppm Pb	ppm Co	ppm Ni	ppm Mo	ppm Mn	% Fe
1543	5C794122	1979	122	221296	221296	YY	4657613	368356	86J1207	U	L	U	L	U	U	6.9	31	1	104	111	111	111	111	111	111	4.1	130	130	2	1A	0.5	14	14	32	32	64	64	64	64
1542	5C794122	1979	122	221295	221295	YY	4657613	368356	86J1207	U	L	U	L	U	U	6.9	31	1	104	111	111	111	111	111	111	4.1	130	130	2	1A	0.5	14	14	32	32	64	64	64	64
1941	5C794122	1979	122	221294	221294	YY	4657613	368356	86J1207	U	L	U	L	U	U	6.9	31	1	104	111	111	111	111	111	111	4.1	130	130	2	1A	0.5	14	14	32	32	64	64	64	64
1940	5C794122	1979	122	221293	221293	YY	4657613	368356	86J1207	U	L	U	L	U	U	6.9	31	1	104	111	111	111	111	111	111	4.1	130	130	2	1A	0.5	14	14	32	32	64	64	64	64
1939	5C794122	1979	122	221292	221292	YY	4657613	368356	86J1207	U	L	U	L	U	U	6.9	31	1	104	111	111	111	111	111	111	4.1	130	130	2	1A	0.5	14	14	32	32	64	64	64	64
1938	5C794122	1979	122	221291	221291	YY	4657613	368356	86J1207	U	L	U	L	U	U	6.9	31	1	104	111	111	111	111	111	111	4.1	130	130	2	1A	0.5	14	14	32	32	64	64	64	64
1541	5C794122	1979	122	221290	221290	YY	4657613	368356	86J1207	U	L	U	L	U	U	6.9	31	1	104	111	111	111	111	111	111	4.1	130	130	2	1A	0.5	14	14	32	32	64	64	64	64

Listing of NIKLIST1 at 09:50:47 on OCT 6, 1981 for CCId=BPOG

	TYPE	ID	EA	NO	PH			Mo	Cu	Pb	Zn	Ni	U	Mn	Fe%
1	5081505A	140122	6780506282875	94D09	251321	218 25LBT	GY	3 E	8	264	11	46	86	1	458 2.9
2	5081505A	140123	6780906282925	94D09	251321	220 25BBM144	REBR	501 2 E	10	21	1	18	51	2	233 2.3
3	5081505A	140124	6781306282975	94D09	251 21	210 15BBM	REBR	501 2 E	14	120	9	48	32	3	220 4.0
4	5081505A	140125	6781706283020	94D09	251 21	210 15BBM	REBR	801 3 E	4	120	5	30	84	1	247 2.1
5	5081505A	140126	6782106283060	94D09	251 11	2 8 15BBM143	REBR	801 4SE	12	39	11	30	17	3	156 2.4
6	5081505A	140127	6782456283110	94D09	251 11	210 15BBM	REBR	801 1SE	15	163	12	27	36	1	145 3.3
7	5081505A	140128	6782906283155	94D09	251 11	215 20BBM	REBR	80 1SE	16	23	7	24	20	5	116 1.9
8	5081505A	140129	6783206283200	94D09	251111	215 20BBM	REBR	10 4SE	3	54	11	31	41	2	180 2.6
9	5081505A	140130	6783606283240	94D09	251 21	220 25BBM123	REBR	601 4SE	2	60	10	27	34	2	152 3.1
10	5081505A	140131	6784006283244	94D09	251 21	215 20BBM123	REBR	901 1SE	3	23	8	54	33	3	212 3.4
11	5081505A	140132	6784406283340	94D09	251 21	220 30BBM123	REBR	101 6SW	2	50	10	43	56	3	265 3.6
12	5081505A	140133	6784606283385	94D09	251 21	215 20BBM142	GYBR	901	8	491	14	62	119	4	912 4.5
13	5081505A	140134	6786556283230	94D09	251321	215 20BBM	GYBR	601 1SE	8	143	9	45	56	2	507 2.8
14	5081505A	140135	6786106283190	94D09	251 112	210 15BBM142	LBR	801 3 W	2	70	7	26	25	3	185 2.6
15	5081505A	140136	6785856283135	94D09	251 112	210 15BBM142	LBR	801 1SE	5	52	9	40	26	4	190 3.2
16	5081505A	140137	6785406283090	94D09	251 112	210 15BBM142	GYBR	901 2SE	1	6	6	27	36	4	161 2.3
17	5081505A	140138	6785006283040	94D09	251 21	210 15BBM142	GY	40 2 SE	4	304	9	55	39	1	379 2.8
18	5081505A	140139	6784656282995	94D09	251 21	210 15BBM142	REBR	801 2SE	16	13	5	25	45	6	157 3.7
19	5081505A	140140	6784106282950	94D09	251 21	120 30RBH142	BK	2SE	7	785	9	21	44	0	382 2.2
20	5081505A	180038	6784906282930	94D09	222 16	5.2320 300BH	DBR	10 10 E	4	1324	11	29	23	1	247 2.4
21	5081505A	180039	6785606283020	94D09	221 16	5.3510 20BBM	MBR	40 10 S	12	233	10	33	24	3	888 2.4
22	5081505A	180040	6786406283100	94D09	622516	5.5520 300BG	DBR	5	8	1314	12	20	77	1	215 2.6
23	5081505A	180041	6787206283185	94D09	623 1625	.1510 200BT	DBR	10	6	213	8	19	48	1	968 1.4
24	5081505A	180042	6787706283245	94D09	622 16	5.2310 200BT	DBR	40 5 S	4	52	8	43	60	0	259 3.7
25	5081505A	180043	6786706283330	94D09	321116	5.4320 30BBF	RBR	40 22 S	5	62	7	48	35	3	355 5.8
26	5081505A	180044	6785806283420	94D09	321116	5.7320 30PBF	RBR	10 25 S	4	123	10	53	57	5	829 6.2
27	5081505A	180045	6785206283330	94D09	221116	5.1320 30PBF	RBR	5 18 S	1	43	11	44	31	1	198 2.6
28	5081505A	180046	6784506283250	94D09	321116	4.9320 30PBF	RBR	5 25 N	1	25	9	31	26	2	155 2.9
29	5081505A	180047	6783806283180	94D09	221 16	4.5320 30PBF	RBR	10 S	1	32	11	25	14	3	138 1.9
30	5081505A	180048	6783206283095	94D09	221 16	4.4320 30PBF	RBR	10 10 S	10	27	10	27	9	2	116 1.4
31	5081505A	180049	6782556283005	94D09	221 16	4.8320 30PBH	DBR	20 10 S	6	228	7	16	9	1	318 1.2
32	5081505A	180050	6781906282920	94D09	622516	5.0310 200BG	DBR	20	8	56	8	21	11	2	113 1.7
33	5081505A	180063	6779906283110	94D09	221316	5.1520 25LBT	MBR	10 20 S	8	315	5	52	71	2	633 2.2
34	5081505A	180064	6780706283195	94D09	622516	5.1310 20GBG	MGY	20	3	61	9	31	35	2	166 2.0
35	5081505A	180065	6781506283285	94D09	221116	4.5315 25PBF	RBR	30 18 S	4	16	4	24	34	3	166 2.7
36	5081505A	180066	6782456283380	94D09	221 1624	.2310 20BBF	RBR	30 20 S	6	40	8	24	31	5	188 2.6
37	5081505A	180067	6783206283460	94D09	722 16	4.4310 15PAE	MGY	30	5	33	7	44	34	2	215 1.7
38	5081505A	180068	6784006283560	94D09	221116	4.9520 30PBF	RBR	5 5 S	3	35	8	31	26	1	167 2.8
39	5081505A	180069	6784806283640	94D09	221316	5.2520 30BBT	DBR	5 15 S	5	61	9	42	77	3	924 2.4
40	5081505A	180070	6785606283730	94D09	221316	5.0520 30BBT	MBR	10 15 S	1	103	4	40	143	1	288 2.4
41	5081505A	180071	6786506283820	94D09	222 16	4.8320 25BBM	MBR	30 5 S	1	79	6	35	116	2	165 2.1
42	5081505A	180072	6785506283905	94D09	222 16	6.13 5 15BBM	MBR	50 5 S	0	97	3	38	139	1	241 1.9
43	5081505A	180073	6783856283895	94D09	321116	4.5310 20BBF	RBR	20 30 S	2	38	7	38	55	5	1672 2.8
44	5081505A	180074	6783006283820	94D09	321316	4.55 5 15BBM	MBR20	30 S	3	53	7	36	65	3	636 2.6
45	5081505A	180075	6782056283735	94D09	221 16	4.63 5 10PBF	RBR	25 5 S	2	59	11	29	31	2	177 2.9
46	5081505A	180076	6781206283650	94D09	221 16	3.8510 15PBF	RBR	20 18 S	3	45	5	30	29	2	211 2.8
47	5081505A	180077	6780306283585	94D09	321 16	4.9315 25BBF	MBR	30 32 S	2	54	3	39	54	3	222 2.7
48	5081505A	180602	6779906284440	94D09	221 19	310 20BBM	MBR	601 6 E	2	38	6	88	238	3	766 4.7
49	5081505A	180603	6780706284450	94D09	221 11	320 25BBF	RBR	201 8SE	5	40	2	60	547	5	748 5.5
50	5081505A	180604	6780206284290	94D09	221 16	320 25BBM	RBR	10110SE	5	138	6	53	345	3	620 4.7
51	5081505A	180605	6779606284210	94D09	222 11	320 30BBM	RBR	101 6SE	7	214	6	46	284	3	484 4.0
52	5081505A	180606	6778906284130	94D09	222 11	320 30BBM	RBR	201 7SE	5	35	7	70	158	2	886 4.1
53	5081505A	180607	6778406284070	94D09	221 19	220 25BBM	MBR	151 5SE	4	182	0	38	249	3	481 3.4
54	5081505A	180608	6777906283990	94D09	221 16	220 30BBM	DBR	8118SE	5	83	3	49	118	2	278 3.7
55	5081505A	180609	6777206283910	94D09	221 192	210 20R	RBR	30115SE	4	167	8	55	178	3	591 3.7
56	5081505A	180610	6776606283830	94D09	321316	220 30BBM	RBR	10122 S	4	110	9	47	124	2	369 4.0
57	5081505A	180611	6775806283750	94D09	221 16	225 35R	MBR	20118 S	2	58	6	49	70	2	244 2.3
58	5081505A	180612	6775106283660	94D09	221 183	7 0 5 TF		10 S	7	40	0	84	1001	5	1202 9.3

59	5081505A	180613	6774506283580	94D09	222 16	220	30BBM	RBR	101 9 S	2	114	5	41	167	3	356	3.1
60	5081505A	180614	6774006283520	94D09	222 16	330	35BBM	LBR	61 8SW	3	87	7	78	115	2	347	3.3
61	1081505A	180615	6773606283480	94D09	.3 53	413			1	3	164	8	83	256	1	358	3.3
62	5081505A	180616	6773406283450	94D09	222116	330	35BBM	MBR	101 8SW	5	197	10	68	179	2	441	4.3
63	5081505A	180617	6772806283380	94D09	222116	320	25BBM	LBR	81 8SW	4	123	5	51	140	1	435	3.6
64	5081505A	180618	6772406283300	94D09	222116	320	30BBM	MBR	401 6SW	20	86	6	76	140	2	1024	6.2
65	1081505A	180619	6772006283260	94D09	.5 63	443			4SW	5	272	2	56	272	2	343	3.3
66	5081505A	180620	6771606283210	94D09	221 16	320	30BBM	RBR	41 4SW	14	185	8	66	297	3	599	4.5
67	1081505A	180621	6771506283180	94D09	.3 53	413			1 5SW	6	227	5	53	231	1	483	4.2
68	5081505A	180622	6771006283130	94D09	222 16	220	25BBM	GY	201 6SW	6	289	6	41	271	2	555	3.6
69	1081505A	180624	6770806283100	94D09	.3 53	443			1 2SW	20	164	10	109	174	2	455	3.9
70	5081505A	180625	6769806282970	94D09	221 16	220	30BBM	MBR	51 8SE	5	121	3	75	652	4	1002	5.9
71	5081505A	180626	6769306282900	94D09	221516	520	30BBM	DBR	101 7 S	12	260	9	37	41	3	201	2.5
72	5081505A	180627	6768706282820	94D09	321316	220	30BBM	RBR	20125 W	3	73	6	29	25	3	189	2.5
73	5081505A	180628	6768206282750	94D09	221 16	525	35BBF	RBR	10110SW	5	45	10	34	24	4	271	4.1
74	5081505A	180629	6767706282670	94D09	221316	220	25R	DBR	20111SW	9	75	10	32	27	3	199	2.4
75	5081505A	180630	6767206282610	94D09	221 16	220	30BBM	DBR	10119 S	4	67	14	40	22	4	683	3.6
76	1081505A	180631	6768206282700	94D09	1.5 104	344			1 10 S	3	602	8	45	52	2	478	3.0
77	5081505A	180632	6766706282540	94D09	221 16	220	30BBM	DBR	20110 S	12	273	11	48	39	2	315	3.8
78	1081505A	180633	6772106283040	94D09	1.5 34	443			1 12SE	11	161	4	42	108	2	269	2.1
79	5081505A	180634	6771206283030	94D09	221316	520	30BBF	RBR	201 8 S	61	110	3	131	141	5	579	5.8
80	1081505A	180635	6772506283080	94D09	1.5 54	443			1 10 S	11	167	7	66	175	1	280	3.0
81	5081505A	180636	6772806283120	94D09	221 16	520	30BBM	RBR	10110SE	27	170	7	60	160	3	541	3.5
82	5081505A	180637	6773506283200	94D09	222116	230	35BBM	RBR	101 6SE	17	198	6	85	85	4	310	3.3
83	5081505A	180638	6774106283270	94D09	2221165	335	45BBG	RBR	101 5 S	3	172	3	54	114	2	261	2.9
84	5081505A	180639	6774706283350	94D09	223116	330	40GBM	RBR	101 5 S	3	144	7	71	122	1	344	3.7
85	5081505A	180640	6781406284170	94D09	221519	220	30GBG	MBR	101 7 E	5	110	3	86	520	4	1115	5.6
86	5081505A	180641	6780806284110	94D09	223 16	510	20BBM	RBR	201 7 E	4	182	5	87	385	3	560	4.8
87	5081505A	180642	6780306284040	94D09	223 16	220	25BBM	RBR	251 7 E	6	50	2	91	267	5	647	5.3
88	5081505A	180643	6779706283960	94D09	223316	220	25BBM	RBR	151 6 E	4	110	8	53	112	2	283	3.1
89	5081505A	180772	6773506285920	94D09	222 16	210	20BBM	MBR	201 4NE	1	110	2	33	521	3	492	4.3
90	5081505A	180773	6773906286010	94D09	221114	6.4320	30BBF	RBR	61 4NE	6	34	1	71	544	4	1144	8.3
91	5081505A	180774	6774306286080	94D09	221 16	6.4320	25BBM	RBR	201 7NE	2	36	5	69	259	3	898	5.9
92	5081505A	180900	6780806284570	94D09	221 11	5.3210	20BBM	DBR	401 6 S	1	63	8	51	63	4	297	2.9
93	5081505A	180901	6781506284650	94D09	221 11	6.4210	25BBM	MBR	201 2NE	0	74	10	71	213	3	281	3.0
94	5081505A	180902	6781906284690	94D09	221 11	6.2220	30BBM	MBR	101 4NE	4	41	2	100	446	4	610	6.3
95	5081505A	180903	6782506284760	94D09	221 11	6.4215	20BBM	RBR	401 4NE	5	47	5	87	514	4	705	7.0
96	1081505A	180904	6783036284780	94D09	.5 1037	5442			1 4NE	2	221	5	66	564	1	282	3.4
97	5081505A	180905	6783106284830	94D09	821 11	5.7220	25BBM	RBR	401 4NE	4	59	6	82	344	4	809	6.7
98	6081505A	181085	6763106285895	94D09	321 18	6.37 0	5 TF		28NE	2	93	3	45	1275	5	915	5.6
99	6081505A	181086	6763906285960	94D09	421 18	6.47 0	5 TF		8NE	2	71	2	43	1274	5	912	5.5
100	6081505A	181087	6764706286040	94D09	421 18	6.57 0	5 TF		4NE	2	57	2	46	1293	6	915	5.7
101	1081505A	181088	6764706286040	94D09	.5 549	5213			1 4 E	1	41	3	39	1154	4	796	4.8
102	1081505A	181089	6764806286040	94D09	.7 748	0213			1 4 S	3	20	2	52	1228	5	807	6.1
103	6081505A	181090	6765606286110	94D09	221 18	6.87 0	5 TF		8SW	1	31	2	50	916	5	961	5.9
104	5081505A	181091	6767206286170	94D09	221 16	6.9230	35BBM	MBR	51 5NE	2	29	3	68	710	3	487	6.2
105	5081505A	181092	6775206286245	94D09	221411	6.8230	35BBM	RBR	41 4 S	1	39	1	46	373	3	381	4.5
106	5081505A	181093	6767906286305	94D09	821 11	5.9220	30BBM	RBR	91 9NE	2	47	4	65	217	4	634	5.5
107	6081505A	181107	6761356285890	94D09	321 18	2 0	5 TF		33NE	2	57	3	40	1254	6	902	5.2
108	6081505A	181108	6762106285960	94D09	321 18	2 0	5 TF		31NE	2	57	3	42	1239	5	895	5.5
109	6081505A	181109	6762956286035	94D09	321 18	2 0	5 TF		32NE	2	24	2	42	1257	5	891	5.5
110	6081505A	181110	6763556286100	94D09	421 18	2 0	5 TF		5SE	2	30	4	45	1271	5	939	5.8
111	6081505A	181111	6764406286175	94D09	221 18	7 0	5 TF		8SW	3	42	5	61	1110	6	1059	6.6
112	5081505A	181112	6765106286240	94D09	221116	220	30BBM	MBR	15112 S	2	20	2	79	456	5	874	6.7
113	6081505A	181113	6765806286310	94D09	221 18	7 0	5 TF		17 S	3	40	3	73	720	4	820	6.8
114	5081505A	181114	6766456286375	94D09	321116	320	30BBM	RBR	21 S	18	71	4	94	320	4	621	6.4
115	6081505A	181115	6767206286440	94D09	221 18	7 0	5 TF		18 E	4	86	6	77	497	5	1054	6.4
116	5081505A	181117	6768206286630	94D09	821 11	320	25BBM	MBR	501 6NE	1	59	9	54	83	5	382	4.5

117	5081505A	181118	6770106286895	94D09	821111	320	25BBF	RBR 101 4 E	1	43	7	68	235	5	303	4.9
118	5081505A	181119	6769406285830	94D09	821111	310	20BBF	RBR 151 5 E	2	176	11	68	264	4	556	6.3
119	5081505A	181120	6768656286760	94D09	821111	210	20BBF	RBR 201 2 E	3	34	9	42	146	3	298	4.8
120	1081505A	181121	6767906286695	94D09	5 53	443		1	4	311	9	68	263	2	344	3.8
121	5081505A	181123	6766506286560	94D09	221 11	215	20BBM	MBR 20114SE	10	79	3	93	482	3	995	7.6
122	5081505A	181124	6765706279760	94D09	221 11	220	25RBM	MBR 15112SE	3	49	3	72	336	5	806	7.1
123	5081505A	181125	6765056286430	94D09	221 11	220	25BBM	MBR 101 6SE	4	41	3	106	472	4	740	8.4
124	6081505A	181126	6764406286360	94D09	221 18	7 0	5 TF	14SE	3	35	4	67	960	5	1020	7.4
125	6081505A	181127	6763656286290	94D09	321 18	7 0	5 TF	21SE	3	42	2	56	1146	7	1127	6.7
126	6081505A	181128	6763006286235	94D09	321 18	7 0	5 TF	28 S	3	31	5	50	1126	5	999	6.3
127	6081505A	181129	6762256286160	94D09	321 18	7 0	5 TF	35SE	2	29	4	45	1270	5	937	5.8
128	6081505A	181130	6761506286100	94D09	321 18	7 0	5 TF	22SE	2	35	2	43	1268	6	905	5.6
129	6081505A	181131	6760706286210	94D09	321 18	2 0	5 TF	26SE	2	27	5	43	1195	6	925	5.9
130	6081505A	181132	6761356286270	94D09	421 18	7 0	5 TF	3SE	3	26	3	47	1235	5	952	6.0
131	6081505A	181133	6762156286345	94D09	721 18	7 0	5 TF		2	31	3	50	1224	6	996	6.3
132	6081505A	181134	6762756286405	94D09	221 18	7 0	5 TF	7SE	3	36	5	59	1097	5	1024	6.6
133	6081505A	181135	6763406286460	94D09	221 18	7 0	5 TF	2SE	0	24	3	51	419	4	683	4.7
134	6081505A	181136	6764006287260	94D09	221 18	7 0	5 TF	6SE	2	41	2	65	597	4	696	6.5
135	5081505A	181137	6764756286610	94D09	821 16	220	25R	MBR 10126SE	1	56	3	67	406	4	552	5.1
136	5081505A	181138	6765506286680	94D09	821111	220	25BBF	RBR 151 9SE	4	34	5	70	261	4	509	5.6
137	5081505A	181139	6766306286750	94D09	821111	315	20BBF	RBR 151 3SE	4	24	8	69	157	6	987	6.5
138	5081505A	181140	6767006286810	94D09	221 11	215	20BBM	MBR 501 4SE	1	162	9	46	177	4	253	3.8
139	5081505A	181141	6767706286865	94D09	221111	220	25PBF	RBR 251 7SE	1	52	6	49	163	3	258	3.9
140	5081505A	181142	6768406286940	94D09	221114	715	20BBM	RBR 351 4SE	1	74	6	54	115	3	461	4.4
141	5081505A	181300	6772706285910	94D09	221 11	320	30BBM	MBR 151 3NE	1	92	5	40	381	3	464	4.1
142	5081505A	181301	6773306285980	94D09	221 11	220	30BBM	RBR 101 4NE	3	31	6	49	138	3	309	4.2
143	6081505A	181302	6773906286050	94D09	221 18	7 0	5 TF	4NE	1	73	5	42	296	3	546	4.5
144	5081505A	181325	6773206286340	94D09	221111	210	20PBF	RBR 151 1ONE	4	25	7	46	82	4	517	3.9
145	5081505A	181326	6773056286260	94D09	221 11	210	20BBF	RBR 101 6NE	10	19	7	36	52	3	182	3.3
146	5081505A	181327	6772306286190	94D09	21 11	220	25PBF	RBR 201 9NE	1	15	6	40	51	2	245	2.9
147	5081505A	181328	6771506286105	94D09	221 11	215	20BBM	RBR 101 8NE	1	11	8	33	50	3	102	2.7
148	6081505A	181407	6764656285880	94D09	421 18	7 0	5 TF	6NE	3	75	2	44	1249	5	923	5.6
149	5081505A	181408	6765356285960	94D09	221414	220	30BBM	MBR 51 4SE	4	26	4	46	1178	4	781	5.7
150	5081505A	181409	6766106286040	94D09	221 11	220	25R	MBR 81 3NE	2	31	3	50	678	2	639	4.7
151	5081505A	181410	6766806286110	94D09	222 11	320	30BBM	MBR 101 2NE	3	88	3	68	608	2	262	5.0
152	5081505A	181411	6767506286190	94D09	221 11	320	30BBM	RBR 101 2NE	4	18	8	56	91	3	210	5.5
153	5081505A	181412	6768206286260	94D09	221511	320	30BBM	RBR 151 5NE	3	31	5	51	107	3	216	4.1
154	5081505A	181413	6774266286330	94D09	221 11	220	30BBM	MBR 101 9NE	3	29	6	50	87	2	247	3.7
155	5081505A	181414	6769656286405	94D09	221 11	220	30BBM	MBR 51 6NE	3	49	6	75	177	4	299	4.9
156	5081505A	181415	6770306286460	94D09	221311	420	30BBT	RBR 51 3NE	2	74	5	45	132	2	198	3.1
157	1081505A	181416	6770906286530	94D09	2 154	443		1 6NE	2	26	3	43	1230	5	856	5.4
158	5081505A	181417	6770906286530	94D09	221411	220	30BBM	MBR 81 6NE	2	62	2	48	574	3	453	5.0
159	5081505A	181418	6771506286605	94D09	221 11	320	30BBM	RBR 101 5NE	4	32	3	43	180	3	313	3.5
160	5081505A	181419	6772856286675	94D09	221 11	330	35PBF	RBR 301 5 E	12	67	4	63	376	5	1820	5.1
161	5081505A	181420	6772906286740	94D09	221511	320	30BBG	RBR 101 3 E	3	61	1	42	699	4	681	5.5
162	5081505A	181421	6773656286805	94D09	221111	22030	BBM	RBR 201 3 E	4	22	7	74	167	2	378	5.1
163	5081505A	181422	6774206286860	94D09	221 11	220	30BBM	RBR 101 6 E	3	16	2	31	393	3	372	4.2
164	5081505A	181428	6765006286870	94D09	221 11	220	30BBM	MBR 151 1ONE	2	56	6	51	182	2	317	3.8
165	5081505A	181429	6765706286940	94D09	221 11	220	30BBM	MBR 401 8NW	1	62	6	47	105	3	353	3.0
166	5081505A	181430	6766256287010	94D09	321 182	7 0	5 TF	34NW	2	180	7	42	170	3	843	3.8
167	6081505A	181431	6766756287080	94D09	321 182	7 0	5 TF	29NW	2	804	10	56	103	4	1086	4.6
168	5081505A	181432	6767306287140	94D09	321 16	320	30BBM	MBR 51 31NW	1	41	2	23	57	1	255	2.2
169	5081505A	181433	6768006287220	94D09	321 11	220	25PBF	RBR 201 29NW	1	44	8	30	33	2	215	2.7
170	5081505A	181434	6768456287290	94D09	321 11	220	30PBF	RBR 151 24NW	1	33	9	42	35	2	242	2.8
171	6081505A	181435	6769006287355	94D09	321 18	7 0	5 TF	31NW	1	85	9	78	29	4	1311	4.5
172	5081505A	181436	6769456287435	94D09	221116	220	30PBF	RBR 301 16NW	5	28	22	92	45	4	584	7.0
173	5081505A	181437	6769956287495	94D09	221 16	220	25BBM	RBR 101 14NW	2	48	10	65	264	1	601	3.7
174	1081505A	181438	6770056287495	94D09	3 43	443		1 12NW	1	125	8	59	477	0	597	3.4

175	5081505A	181439	6770456287575	94D09	221116	220	25BBF	RBR	201	8NW	3	42	8	82	158	2	GG1	4.6
176	5081505A	181467	6769406287040	94D09	221 11	220	30BBM	RBR	351	9NE	4	58	5	33	82	5	200	5.6
177	5081505A	181468	6769906287100	94D09	221111	220	30PBF	RDR	251	6NE	2	44	5	40	76	4	275	4.6
178	5081505A	181469	6770356287160	94D09	221 11	220	30PBF	RBR	10118	N	2	65	6	35	151	5	278	4.4
179	5081505A	181470	6771006287260	94D09	221 11	220	25BBM	RBR	101	8NE	3	52	9	82	82	5	485	6.1
180	5081505A	181471	6771406287295	94D09	221311	420	30BBM	RBR	5114NE		2	54	9	76	312	2	599	5.3
181	5081505A	181472	6771956287350	94D09	221 11	320	30PBF	RRB	101	7NE	4	28	16	106	181	1	705	5.4
182	5081505A	181473	6772406287415	94D09	221211	320	30BBM	MBR	51	4NE	3	23	7	86	299	1	905	4.6
183	5081505A	181474	6772956287460	94D09	221111	220	30PBF	RBR	101	9 N	3	26	8	81	186	4	373	5.6
184	5081505A	181475	6773406287555	94D09	221111	220	30PBF	RBR	101	6NE	3	22	7	89	210	4	317	4.9
185	6081505A	190006	6767056287250	94D09	321 1824.42 0	3	TF222	M BR	25125	E	1	72	13	84	35	0	497	2.7
186	6081505A	190007	6766506287130	94D09	32141815.42 0	4	TF144	2M GY	75125	E	3	46	8	60	43	3	359	2.3
187	5081505A	190008	6767006287090	94D09	321 16 4.4210	25BBM144		2M BR	25NE		9	574	28	167	19	0	1126	4.2
188	5081505A	190010	6768706287110	94D09	321 1625.0210	25BBM114		M BR	20125NW		2	100	15	138	27	0	805	2.9
189	5081505A	190011	6769406287180	94D09	321 1623.7210	15BBM222		M BR	15122NW		2	95	14	144	27	0	869	2.9
190	5081505A	190191	6782406284300	94D09	822 16	215	25BBM	M BR	451		5	151	6	63	241	3	406	4.4
191	5081505A	190192	6782956284360	94D09	821 16	2 7	14BBM	M DBR	201		4	60	5	72	134	2	278	3.1
192	5081505A	190193	6783506284425	94D09	821 16	230	40BBM	L BRGR	801		4	73	6	48	111	2	206	2.6
193	5081505A	190194	6784006284490	94D09	821 16	2 5	10BBM	M BR	251		5	175	3	43	356	3	622	4.5
194	5081505A	190195	6784606284558	94D09	822 16	220	30BBM	L BR	501		4	132	8	44	167	2	261	2.8
195	1081505A	190196	6785206284625	94D09	2.7 .33	222				2 N	2	48	6	46	251	2	256	2.9
196	5081505A	190197	6785706284685	94D09	943 16	2 5	15BBM	M BR	501		4	59	3	70	628	6	720	6.2
197	5081505A	190198	6786356284740	94D09	943 16	210	20BBM		901		5	85	4	75	509	3	498	5.3
198	5081505A	190199	6786906284805	94D09	732 14	315	25LBT	M BRGY	151		6	181	6	49	554	3	457	5.0
199	5081505A	190200	6787506284865	94D09	732 14	315	25LBT	M BR	301		7	121	4	43	644	3	595	5.8
200	5081505A	190214	6785606284830	94D09	232 14	215	25BBM	MBR	351	4 N	3	59	3	52	563	3	517	5.1
201	5081505A	190215	6785106284760	94D09	233 14	310	20LBM	M BR	251	4 N	4	109	1	63	616	4	500	4.7
202	5081505A	190216	6784506284690	94D09	231 14	2 7	15BBM	M BRRD	501	5 N	7	41	5	84	355	4	930	7.5
203	5081505A	190217	6783956284625	94D09	231 14	2 7	15BBM	M BRRD	501		4	39	7	74	307	4	581	4.9
204	5081505A	190218	6783356284550	94D09	831 14	2 7	15BBM	M BRRD	351		4	89	8	44	259	3	683	4.8
205	5081505A	190219	6782806284460	94D09	631 14	2 7	15BBM	M BRGY	301		2	127	5	59	297	3	354	3.6
206	5081505A	190220	6782306284405	94D09	731 14	215	25BBM	M BR	601		2	82	3	32	254	2	330	3.3
207	5081505A	190221	6781706284330	94D09	632 14	210	15BBM	L BR	401	1	3	120	4	65	181	3	410	3.6
208	5081505A	190222	6785456282890	94D09	261 112	210	20BBM124	MBR	601	7 E	4	229	5	38	22	1	172	2.1
209	5081505A	190224	6786306282975	94D09	261 112	210	20BBM124	MBR	801	7 E	8	24	5	23	23	4	155	2.8
210	5081505A	190225	6786706283020	94D09	261 112	215	25BBM124	MBR	601	8 E	12	232	8	34	26	3	391	2.9
211	5081505A	190226	6787106283060	94D09	261 112	215	20PBF124	MRBR	601	6 E	9	91	7	39	25	4	324	4.4
212	5081505A	190227	6787406283130	94D09	261 112	2 7	12BBM142	MBR	601	6 E	12	15	8	41	35	5	127	4.0
213	5081505A	190228	6787906283155	94D09	261 112	2 7	15BBM142	MBR	151	8 E	4	191	9	44	123	2	424	2.8
214	6081505A	190229	6788256283195	94D09	261 182	2 7	10BBM124	MBR	20	E	4	18	5	43	36	4	462	4.4
215	5081505A	190230	6789156283105	94D09	261 112	215	25BBM142	MBR	101	2 E	2	442	11	48	46	2	245	3.6
216	5081505A	190231	6788756283070	94D09	261 112	2 7	12BBM	MBR	751	3 E	13	34	36	31	32	3	353	3.1
217	5081505A	190232	6788356283020	94D09	261 112	230	40BBM	MBR	901	4 E	7	343	12	40	38	1	255	3.7
218	5081505A	190233	6787956282975	94D09	261 112	215	25BBM	MBR	101	2 E	6	408	14	44	92	1	458	4.1
219	5081505A	190234	6787606282940	94D09	261 112	210	15BBM	LBR	601	6 E	11	17	9	30	56	3	223	3.6
220	5081505A	190235	6787206282900	94D09	761 112	2 7	12BBM	DBRRD	701	I	10	357	38	44	24	0	171	7.4
221	5081505A	190244	6791506282925	94D09	261 11	210	15PBF124	MRD	401	15 E	2	35	9	31	19	3	196	4.3
222	5081505A	190245	6792306283010	94D09	761 21	210	20PBF	DRD	51		1	40	9	35	25	1	175	3.3
223	5081505A	190246	6793406283150	94D09	761 21	230	40CC1	GRGY	301		2	378	9	61	47	1	759	4.4
224	5081505A	190311	6770556286930	94D09	261 16	210	15BBM	MBR	401	8NE	2	176	4	60	441	2	463	4.8
225	5081505A	190312	6771056286990	94D09	261 16	210	15BBM	MBR	501	6NE	2	69	4	47	128	3	303	4.1
226	5081505A	190313	6771706287055	94D09	261 16	210	15BBM	MBR	601	6NE	2	54	7	62	104	3	313	4.5
227	5081505A	190314	6772106287120	94D09	261 16	310	15BBM	LBR		6NE	0	10	3	17	23	1	243	1.0
228	5081505A	190315	6772656287190	94D09	261 16	210	15BBM	MBR		6NE	2	36	11	93	132	4	764	5.2
229	5081505A	190316	6773106287250	94D09	261 16	210	15BBM	MBR	501	12NE	3	31	10	74	132	4	446	6.4
230	5081505A	190317	6773706287315	94D09	261 16	210	15BBM	LBR	401	6NE	3	36	12	82	96	2	517	4.6
231	5081505A	190327	6773706287035	94D09	261 16	2 7	15BBM7	MBRRD	401	1ONE	2	33	9	85	165	3	890	4.2
232	5081505A	190328	6773206286960	94D09	762 16	310	15BBM	L-MBR	00		1	41	7	69	322	2	352	4.0



233	5081505A	190329	6772556286880	94D09	261 16	2 7 14BBM	MBR 00 8NE	2 41	6 75 136	3 397 4.5
234	5081505A	190330	6771906286810	94D09	261 16	2 7 12BBM	MBR 301 8NE	0 19	8 46 48	1 201 2.0
235	5081505A	190331	6771406286730	94D09	761 16	210 15BBM	MBR 201 9 E	2 30	3 47 414	3 589 5.1
236	5081505A	190332	6770706286650	94D09	261 16	2 7 12BBM	BRRD 75110 E	2 41	8 66 92	3 255 4.5
237	5081505A	190333	6770106286570	94D09	261 16	2 7 12BBM	MBR 50 12 E	2 28	7 48 75	3 456 4.5
238	5081505A	190379	6770896286390	94D09	221 16	2 7 12BBM	BRRD 301 7 N	3 101	8 61 150	3 375 4.2
239	5081505A	190380	6770226286313	94D09	221 16	2 6 10BBM	MBR 801 6NW	1 32	7 52 88	3 353 2.8
240	6081505A	190381	6769556286234	94D09	322 162	3 0 3 TF	D-MBR 30123NW	1 110	4 50 207	2 493 4.2
241	5081505A	190382	6768896286158	94D09	221 16	2 6 10	GYGR 90119 E	0 26	3 18 175	1 225 2.3
242	1081505A	190383	6768606286123	94D09	2.5 254	213	5NE	3 21	2 45 1210	5 855 5.8
243	5081505A	190384	6768286286086	94D09	222 16	210 15BBF	BRRD 101 3NE	16 67	2 100 395	4 800 8.2
244	5081505A	190385	6767656286011	94D09	221 16	210 15BBM	BRRD 00 5NE	14 38	3 69 204	0 334 5.1
245	5081505A	190386	67669862865929	94D09	223 16	310 15BBM	M-DBR 00 4NE	5 58	1 73 758	3 689 6.4
246	8181505A	272201	6791806280075	94D09	ANDESITE	225	LAPILLI TUFF	1 48	6 30 38	0 239 2.1
247	8181505A	272202	6791126280159	94D09	ANDESITE	225	LAPILLI TUFF	0 33	10 34 26	0 213 1.5
248	8981505A	272203	6790296280232	94D09	QUARTZ VEIN	161		1 1692	10 22 9	1 378 1.2
249	8981505A	272204	6789656280299	94D09	QUARTZ VEIN	161		4 3930	9 35 34	4 254 2.4
250	8981505A	272205	6789106280355	94D09	ANDESITE + QTZ	225	LAPILLI TUFF / VEIN	918520	25 22 29	9 462 3.4
251	8381505A	272206	6787656280510	94D09	ANDESITE CRYSTAL	223	AND LAPILLI TUFF	0 241	6 32 41	0 305 1.9
252	8381505A	272207	6785806280615	94D09	ANDESITE CRYSTAL	223	AND LAPILLI TUFF	0 193	6 45 56	1 411 2.5
253	8381505A	272208	6786786280563	94D09	ANDESITE	225	LAPILLI TUFF	0 72	5 37 63	0 370 2.2
254	8381505A	272209	6785106280671	94D09	ANDESITE	225	LAPILLI TUFF	6 67	6 37 67	1 381 2.5
255	8381505A	272210	6785206280790	94D09	ANDESITE	225	LAPILLI TUFF	18 114	2 56 66	2 427 2.9
256	8381505A	272211	6785906280955	94D09	ANDESITE CRYSTAL	225	AND LAPILLI TUFF	13 124	5 40 105	2 358 2.6
257	8381505A	272212	6786286281068	94D09	ANDESITE CRYSTAL	225	AND LAPILLI TUFF	0 113	3 40 87	0 353 2.7
258	8381505A	272213	6786706281175	94D09	ANDESITE CRYSTAL	223	AND LAPILLI TUFF	3 70	8 50 59	3 373 2.8
259	8381505A	272214	6787386281266	94D09	ANDESITE CRYSTAL	225	AND LAPILLI TUFF	0 87	5 47 116	0 401 2.9
260	8381505A	272215	6788146281350	94D09	ANDESITE CRYSTAL	225	AND LAPILLI TUFF	0 145	4 30 62	0 295 1.9
261	8381505A	272216	6788786281450	94D09	ANDESITE	224	ASH TUFF	0 63	6 39 30	1 372 2.4
262	8981505A	272217	6764706283110	94D09	ANDESITE	224		3 337	3 24 25	0 178 2.4
263	8181505A	272218	6774206283710	94D09		14A		2 13	0 17 631	5 790 4.3
264	6081505A	625401	6791806280075	94D09	372L 8B	4 0 3C1R226	OLBR 20A 40SW	1 62	9 47 20	3 314 2.7
265	5081505A	625402	6791126280159	94D09	342L 6P	520 30BFP225	YEBR 25S 40SW	2 61	9 41 18	5 234 2.7
266	5081505A	625403	6790296280232	94D09	3E2L 6P	410 15BMB225	BR 20S 40SW	3 122	13 46 22	4 338 2.5
267	6081505A	625404	6789656280299	94D09	3E2L 6M	4 0 2TF	BR 30A 35SW	9 1026	14 94 62	8 1107 4.4
268	6081505A	625405	6789156280365	94D09	3E2L 6P	4 0 2TF	BR 20A 30SW	9 1008	17 81 58	6 1046 4.1
269	6081505A	625406	6788256280450	94D09	3E2L 8B	4 0 2TF	BR 25A 50 W	7 1173	24 71 38	5 612 3.5
270	6081505A	625407	6787656280510	94D09	3E1L 8M	2 0 2TF	BR 90A 35N	6 4516	24 95 47	13 1127 5.0
271	6081505A	625408	6786556280565	94D09	3E2L 8B	3 0 2TF	BR 50A 35N	8 3059	79 139 76	17 1206 4.4
272	6081505A	625409	6785806280615	94D09	3E2L 8M	4 0 2TF	BR 25A 35N	14 2100	20 78 75	6 978 4.0
273	6081505A	625410	6785106280671	94D09	3E2L 8M	4 0 2TF	BR 25A 35N	20 1749	18 82 51	7 1009 3.9
274	6081505A	625411	6785206280790	94D09	3E2L 8P	4 0 2TF	BR 35A 35N	34 1896	15 64 85	8 793 3.7
275	6081505A	625412	6785906280955	94D09	3E3L 8P	4 0 5TF	BR 50A 35N	61 1103	12 57 76	6 761 3.5
276	6081505A	625413	6786286281068	94D09	3E2L 8P	4 0 5TF	BR 50A 35N	27 679	6 46 74	3 530 2.9
277	6081505A	625414	6786706281152	94D09	4E2L 8P	4 0 2TF	OLBR 20A 20N	78 1055	14 62 82	6 868 3.8
278	5281505A	625415	6787006281235	94D09	4E2L 6P	4 0 5TF	BR 30A 20N	12 332	8 52 77	5 514 3.5
279	5081505A	980036	6759306283045	94D09	512 8	505020 BH	BR 101	3 163	10 48 49	2 459 2.9
280	6081505A	980059	6767256282430	94D09	222 181	2 0 25RTF	BR 50110 N	4 155	13 45 41	3 407 3.5
281	6081505A	980060	6766206282360	94D09	221 18	2 5 15BTF224	BR 10110 W	6 100	13 47 26	3 890 3.3
282	6081505A	980061	6765506282300	94D09	221 18	2 5 15RTF224	BR 80110 W	8 195	12 41 31	2 1053 3.2
283	6081505A	980062	6764706282240	94D09	321 183	2 0 3RTF	BR 20125 W	9 316	14 47 33	2 607 3.5
284	6081505A	980063	6763906282180	94D09	321 183	2 0 15RTF	BR 40125 W	23 548	14 59 62	2 671 4.4
285	6081505A	980064	6763006282110	94D09	321 183	2 0 5RTF224	BR 10125 W	52 811	16 66 72	3 660 5.8
286	6081505A	980065	6762306282050	94D09	321 183	2 0 3RTF224	BR 10125 W	23 302	12 64 46	4 1081 4.2
287	6081505A	980066	6761956282010	94D09	321 18	20 3RTF224	LBR 10125 W	14 285	13 65 83	3 696 4.3
288	6081505A	980069	6760206281810	94D09	321 18	2 0 15RTF	BR 40125 W	55 1534	17 67 62	5 650 4.8
289	6081505A	980070	6759906281770	94D09	221 181	2 5 10RTF	BR 30120 W	12 661	12 57 56	2 672 4.1
290	6081505A	980071	6759506281730	94D09	221 18	210 30RTF	BR 25115 W	13 258	10 44 37	2 629 3.5

291	5081505A	980072	6759056281690	94D09	222	18	210	25RC1	BR	20110	W	22	584	11	64	50	6	752	4.2		
292	5081505A	980073	6758606281625	94D09	222	26	2	5	20BRM	BR	10110	W	2	65	11	54	23	1	264	3.4	
293	5081505A	980074	6757906281550	94D09	222	6	210	30BBM	BR	20110	W	7	273	7	60	50	1	508	3.2		
294	5081505A	980076	6758606281470	94D09	321	8	2	0	25RTF	LBR	10120	N	0	88	6	36	17	1	312	2.5	
295	5081505A	980077	6759306281390	94D09	222	1	2	5	18PBF	RBR	10110	W	2	34	10	39	18	0	227	4.1	
296	5081505A	980078	6760106281320	94D09	221	121	215	25PBF	RBR	10110	W	7	98	20	64	25	3	374	7.0		
297	5081505A	980080	6767706282465	94D09	521	16	2	8	18BBM	BR	20	5	E	11	191	14	68	44	3	431	5.3
298	5081505A	980081	6768306282510	94D09	522	16	215	25BBM	BR	101	5	E	24	392	12	38	42	1	242	3.7	
299	5081505A	980082	6768906282560	94D09	522	16	215	25BBM	BR	101	5	E	27	158	10	39	43	2	301	3.4	
300	5081505A	980083	6769456282610	94D09	222	16	215	20BRM	BR	101	5	E	42	162	12	47	38	2	225	3.6	
301	5081505A	980084	6769956282660	94D09	221	16	210	25BBM	BR	10110	E	5	122	11	42	30	2	236	3.1		
302	5081505A	980085	6770506282715	94D09	221	161	2	5	20BBM123	BR	101	5	E	7	352	11	47	66	3	297	4.2
303	5081505A	980086	6771106282760	94D09	821	192	2	0	15RC1224	LBR	101	5	NE	4	217	6	30	39	1	265	2.2
304	5081505A	980087	6771506282810	94D09	221	192	2	0	20RC1	GRBR	101	5	NE	6	239	4	33	293	2	420	3.8
305	5081505A	980089	6772156282870	94D09	221	162	2	5	25BBM224		101	5	NE	5	101	9	37	40	2	279	2.8
306	5081505A	980091	6773206282985	94D09	221	112	2	5	20BBM	BR	101	5	NE	6	203	10	27	57	2	174	2.6
307	1081505A	980092	6773906283025	94D09	2	53	442		GRBRR	1	3	N	33	285	7	56	132	0	215	1.9	
308	5081505A	980093	6774756282940	94D09	221	19	2	5	15RC1	BR	20110	NE	28	95	6	20	69	2	83	2.4	
309	5081505A	980094	6774956282960	94D09	221	16	2	5	20RC1	BR	5120	NE	7	90	10	28	23	1	160	2.5	
310	5081505A	980095	6773706282840	94D09	221	19	2	0	20RC1	BR	25115	NE	10	231	11	40	44	3	345	3.4	
311	5081505A	980096	6773156282785	94D09	221	26	2	5	25BBM	BR	25115	NE	10	431	9	44	49	0	303	2.4	
312	1081505A	980098	6772706282730	94D09	110	2	642	224	LBR	1	7	NE	8	370	8	31	44	2	304	2.5	
313	5081505A	980099	6772106282685	94D09	221	26	2	5	20BBM224	RBR	20120	NE	10	194	8	26	35	1	195	2.1	
314	6081505A	980100	6771506282630	94D09	321	18	2	0	2RTF224	LBR	5145	NE	7	375	9	42	55	1	403	3.4	
315	5081505A	980101	6771006282585	94D09	221	18	2	5	20BC1	BR	10110	NE	58	341	6	54	70	3	224	3.3	
316	6081505A	980102	6770506282540	94D09	321	18	2	0	25RC1	BR	10145	NE	6	183	11	55	49	3	313	3.5	
317	5081505A	980103	6770306282620	94D09	521	18	2	5	20RC1	BR	10110	NE	10	144	7	28	25	1	207	2.2	
318	5081505A	980104	6769906282495	94D09	121	19	2	0	5RTF	BR	1010		8	258	8	33	45	2	289	2.9	
319	5081505A	980107	6791606281655	94D09	221	16	215	20BAE	LBR	10115	W	32	61	8	63	27	3	679	3.1		
320	5081505A	980108	6792206281735	94D09	221	162	210	25BBM	RBR	10110	W	3	32	8	28	16	2	155	2.7		
321	5081505A	980109	6792856281810	94D09	221	16	210	25BBM	BR	51	5	W	5	58	11	38	21	1	306	2.9	
322	5081505A	980112	6794206281965	94D09	221	1	210	25BBM	RBR	51	5	W	9	134	9	32	19	0	578	2.8	
323	5081505A	980113	6794806282040	94D09	221	111	210	25BBF	RBR	5110	W	2	40	11	31	23	1	187	3.3		
324	5081505A	980114	6795406282120	94D09	221	11	210	25BBM	RBR	51	5	W	2	37	10	24	16	1	132	2.7	
325	5081505A	980115	6796056282195	94D09	221	11	210	25BBM	RBR	51	5	W	4	26	11	28	18	2	166	3.5	
326	5081505A	980116	6796656282280	94D09	221	11	210	25BBM	RBR	51	5	W	3	22	10	23	21	2	148	3.6	
327	5081505A	980117	6797306282360	94D09	322	4	210	25BBM	RBR	5130	N	3	55	8	27	21	3	238	2.9		
328	1081505A	980118	6797556282370	94D09	15	56	823		LBR	1	10	W	4	137	8	44	37	0	602	2.8	
329	5081505A	980119	6796756282400	94D09	222	11	210	20BBM	BR	20115	W	8	16	11	21	12	6	136	3.2		
330	5081505A	980121	6795556282370	94D09	221	162	220	30BBM	LBR	101	5	W	5	703	8	41	26	2	340	2.6	
331	5081505A	980122	6794906282290	94D09	221	141	710	15RC1		80110	W	3	140	6	26	33	2	228	3.5		
332	1081505A	980123	6794856282275	94D09	5	82	212	2	DBR	1	5	W	3	293	6	29	11	0	291	1.1	
333	5081505A	980124	6794306282210	94D09	221	11	2	5	25BBM	BR	5110	W	2	27	7	24	20	2	166	3.1	
334	5081505A	980125	6793656282140	94D09	221	112	210	25BBM	RBR	10110	W	1	88	12	26	27	1	188	2.8		
335	5081505A	980126	6793006282060	94D09	221	112	210	25BBM	RBR	101	5	W	6	39	11	22	15	1	136	3.4	
336	5081505A	980128	6791706281900	94D09	221	112	210	20BBM	DBR	51	5	W	12	470	6	15	13	1	667	.9	
337	5081505A	980129	6791156281820	94D09	221	14	2	0	20RC1	LBR	20110	W	9	65	6	35	20	0	242	2.8	
338	5081505A	980131	6789756281805	94D09	221	1	210	20BBM	LBR	5110	W	18	422	13	51	35	1	286	3.2		
339	5081505A	980132	6789956281915	94D09	221	1	215	25BBM	BR	51	5	W	16	362	9	33	22	0	426	2.4	
340	5081505A	980133	6790606282000	94D09	221	1	210	20BBM	LBR	10110	W	6	17	11	31	14	2	148	3.8		
341	5081505A	980134	6791206282075	94D09	221	192	210	20RC1	GR	251	5	W	9	13	12	8	6	2	62	1.1	
342	5081505A	980135	6791706282155	94D09	221	12	210	25BBM	BR	5	W	3	1178	13	83	80	1	457	3.5		
343	5081505A	980136	6771306286075	94D09	221	21	210	20BBM	LBR	101	5	E	2	30	5	47	74	2	179	3.9	
344	5081505A	980137	6770806285990	94D09	221	1	210	25RC1	LBR	101	5	E	1	10	13	24	35	1	91	1.9	
345	5081505A	980138	6770206285910	94D09	222	1	2	0	25RC1	LBR	201	5	E	3	46	6	45	159	3	261	4.0

Listing of NIKLIST2 at 09:50:50 on OCT 6, 1981 for CCId=BPOG

	TYPE	ID	Ag	Co	Au	As	Hg	Sb	W	Tn	Cd	Bi	V	Ba	Al%	Fe%	Mg%	Ca%
1	5081505A	140122	.1	34	5	4		0	1	0	1	1	77	72	2.66	2.9	1.10	.41
2	5081505A	140123	0.	24	5	4		0	0	0	0	1	76	14	.70	2.3	.79	.13
3	5081505A	140124	.0	19	5	8		1	0	0	0	0	138	62	1.88	4.0	.76	.37
4	5081505A	140125	.1	20	5	5		0	1	0	0	1	57	83	2.00	2.1	.77	.31
5	5081505A	140126	0.	10	5	5		0	0	0	0	0	106	45	1.29	2.4	.46	.18
6	5081505A	140127	.0	16	20	6		0	0	0	1	0	90	62	2.71	3.3	.76	.39
7	5081505A	140128	0.	9	5	4		0	0	0	0	1	133	44	1.23	1.9	.52	.16
8	5081505A	140129	.1	14	5	1		0	0	0	0	0	71	42	2.84	2.6	.72	.14
9	5081505A	140130	.2	11	5	1		0	0	0	0	0	71	40	3.41	3.1	.60	.15
10	5081505A	140131	.0	15	5	5		0	1	0	0	1	119	44	1.69	3.4	.83	.15
11	5081505A	140132	.1	19	5	8		0	2	0	1	0	94	37	3.02	3.6	.97	.17
12	5081505A	140133	.4	44	5	10		0	2	0	2	1	131	90	3.78	4.5	1.74	.42
13	5081505A	140134	.0	30	5	9		0	2	0	0	0	94	63	1.99	2.8	.89	.32
14	5081505A	140135	0.	14	5	6		0	0	0	0	0	93	47	1.89	2.6	.63	.19
15	5081505A	140136	.1	13	10	1		0	0	0	1	0	114	33	2.53	3.2	.82	.15
16	5081505A	140137	0.	14	5	8		0	0	0	1	1	152	21	.95	2.3	.83	.20
17	5081505A	140138	.1	33	5	5		0	1	0	0	0	80	47	2.05	2.8	.89	.28
18	5081505A	140139	0.	13	5	10		1	0	0	1	1	266	20	1.08	3.7	.88	.26
19	5081505A	140140	.4	49	5	2		0	4	0	1	0	54	52	2.15	2.2	.60	1.12
20	5081505A	180038	.3	15	5	5		0	1	0	1	0	55	58	2.78	2.4	.50	.60
21	5081505A	180039	.0	75	5	8		0	1	0	0	1	115	42	1.79	2.4	.55	.42
22	5081505A	180040	.8	25	5	8		0	2	0	1	0	87	61	1.95	2.6	.60	.80
23	5081505A	180041	.3	32	5	0		0	0	0	0	1	41	87	1.35	1.4	.49	.76
24	5081505A	180042	.2	17	5	11		0	0	0	1	0	113	79	2.41	3.7	1.11	.49
25	5081505A	180043	.5	24	10	8		2	0	0	1	0	199	46	2.45	5.8	1.12	.33
26	5081505A	180044	.5	43	5	10		2	1	0	0	0	184	97	2.78	6.2	.88	.25
27	5081505A	180045	.1	20	5	3		2	0	0	1	0	78	42	3.42	2.6	.69	.20
28	5081505A	180046	.0	14	5	3		0	0	0	1	0	82	41	3.12	2.9	.58	.19
29	5081505A	180047	.0	6	15	2		0	0	0	0	1	77	38	1.86	1.9	.54	.15
30	5081505A	180048	0.	5	10	4		0	0	0	0	0	97	40	1.08	1.4	.36	.17
31	5081505A	180049	.1	13	20	3		0	0	0	0	0	56	79	.88	1.2	.23	.36
32	5081505A	180050	0.	8	5	5		0	0	0	0	0	90	47	.85	1.7	.47	.35
33	5081505A	180063	.1	32	20	3		0	0	0	0	0	63	91	1.52	2.2	.61	.42
34	5081505A	180064	0.	13	30	4		0	0	0	1	1	73	39	1.93	2.0	.76	.24
35	5081505A	180065	0.	12	10	3		0	0	0	0	0	86	24	.80	2.7	.48	.10
36	5081505A	180066	0.	15	5	4		0	0	0	0	0	108	42	1.07	2.6	.54	.13
37	5081505A	180067	0.	13	5	5		0	0	0	0	1	75	52	1.58	1.7	.89	.22
38	5081505A	180068	.3	12	5	9		0	2	0	0	0	82	35	2.98	2.8	.66	.20
39	5081505A	180069	.0	38	5	5		0	1	0	0	1	75	102	1.23	2.4	.79	.25
40	5081505A	180070	.0	27	5	12		0	1	0	0	0	56	66	1.95	2.4	1.21	.32
41	5081505A	180071	0.	20	15	7		0	0	0	0	1	57	45	1.96	2.1	.94	.22
42	5081505A	180072	0.	19	5	16		0	0	0	0	1	51	48	1.70	1.9	1.04	.43
43	5081505A	180073	.1	21	5	3		0	0	0	1	1	83	86	1.50	2.8	.89	.19
44	5081505A	180074	.1	18	5	2		0	0	0	0	1	67	47	1.53	2.6	1.05	.19
45	5081505A	180075	.3	11	5	4		0	1	0	0	0	79	37	3.40	2.9	.64	.19
46	5081505A	180076	.1	12	5	6		0	1	0	0	0	81	32	1.72	2.8	.73	.21
47	5081505A	180077	0.	17	5	0		1	0	0	0	1	71	40	1.79	2.7	.99	.21
48	5081505A	180602	.2	59	5	5		1	0	0	1	3	53	53	1.48	4.7	3.37	.13
49	5081505A	180603	.4	78	5	11		0	0	0	2	6	35	23	.88	5.5	6.31	.06
50	5081505A	180604	.2	69	5	9		0	1	0	1	4	47	25	1.35	4.7	4.41	.11
51	5081505A	180605	.2	52	20	6		0	0	0	1	3	58	31	1.66	4.0	3.55	.16
52	5081505A	180606	.3	58	5	9		2	2	0	0	2	65	56	1.43	4.1	2.00	.12
53	5081505A	180607	0.1	58	25	3		1	0	0	0	4	51	29	1.48	3.4	2.93	.18
54	5081505A	180608	0.	31	5	2		1	0	0	0	2	62	52	1.55	3.7	1.96	.19
55	5081505A	180609	.1	54	10	8		0	0	0	1	2	72	47	2.03	3.7	2.38	.20
56	5081505A	180610	.0	29	5	6		0	1	0	1	1	77	45	2.03	4.0	1.81	.21
57	5081505A	180611	0.	16	5	3		0	0	0	1	1	69	47	1.64	2.3	1.34	.20
58	5081505A	180612	.9	148	5	18		2	1	0	4	3	15	41	.69	9.3	6.22	.04

59	5081505A	180613	.1	30	10	10	0	0	0	1	2	60	38	1.79	3.1	2.15	.23
60	5081505A	180614	.1	28	10	6	0	0	0	1	1	61	40	1.77	3.3	2.17	.22
61	1081505A	180615	.3	33	5	2	0	0	0	1	2	56	62	2.12	3.9	2.51	.36
62	5081505A	180616	.1	38	5	6	0	1	0	2	1	73	52	2.41	4.3	2.33	.26
63	5081505A	180617	.1	37	5	6	0	0	0	1	1	61	35	1.83	3.6	2.07	.26
64	5081505A	180618	.6	88	20	9	2	1	0	3	2	62	44	1.39	6.2	4.10	.40
65	1081505A	180619	.1	41	5	4	0	0	0	1	3	52	43	1.33	3.3	3.05	.31
66	5081505A	180620	.1	47	5	4	2	1	0	1	2	68	57	1.55	4.5	3.14	.20
67	1081505A	180621	.3	51	5	4	0	0	0	1	3	74	68	1.90	4.2	3.34	.50
68	5081505A	180622	.2	64	5	8	0	1	0	1	3	59	47	1.64	3.6	3.14	.35
69	1081505A	180624	.1	31	30	5	2	4	0	1	2	65	76	1.92	3.9	2.57	.33
70	5081505A	180625	.5	123	5	9	0	0	0	3	8	37	24	1.34	5.9	8.31	.12
71	5081505A	180626	.1	15	5	5	0	1	0	1	0	69	43	2.19	2.5	.90	.14
72	5081505A	180627	0.	13	10	3	0	0	0	0	0	79	49	1.83	2.5	.75	.17
73	5081505A	180628	.2	12	5	6	2	1	0	1	0	114	34	2.77	4.1	.56	.10
74	5081505A	180629	0.	12	5	6	0	0	0	0	0	79	40	2.36	2.4	.63	.14
75	5081505A	180630	.6	15	5	6	2	1	0	1	0	90	43	3.30	3.6	.58	.13
76	1081505A	180631	.3	37	15	6	0	3	0	1	1	85	56	2.66	3.0	1.18	.47
77	5081505A	180632	.2	23	20	5	1	2	0	1	0	94	42	3.16	3.8	.91	.41
78	1081505A	180633	0.	26	5	5	0	0	0	0	2	51	40	1.15	2.1	2.12	.24
79	5081505A	180634	.5	60	20	10	2	2	0	3	5	76	18	1.67	5.8	6.00	.17
80	1081505A	180635	.1	40	10	5	0	0	0	1	2	56	62	1.62	3.0	2.27	.39
81	5081505A	180636	.1	43	5	4	2	0	0	0	2	71	64	1.73	3.5	2.02	.33
82	5081505A	180637	.1	35	5	7	0	0	0	1	1	85	82	2.33	3.3	1.66	.29
83	5081505A	180638	0.	25	10	5	0	0	0	0	2	59	50	1.75	2.9	1.67	.28
84	5081505A	180639	.0	30	5	4	0	1	0	1	1	71	52	2.25	3.7	2.05	.30
85	5081505A	180640	.2	94	5	8	2	0	0	2	4	51	51	1.61	5.6	5.02	.16
86	5081505A	180641	.1	54	5	5	2	1	0	1	2	58	100	2.28	4.8	2.88	.20
87	5081505A	180642	.1	55	5	7	1	0	0	2	4	56	41	1.36	5.3	5.26	.11
88	5081505A	180643	0.	20	5	5	0	0	0	1	1	66	32	2.39	3.1	1.85	.18
89	5081505A	180772	.1	72	5	9	0	0	0	1	5	68	11	1.06	4.3	5.26	.12
90	5081505A	180773	.7	113	5	21	2	1	0	3	3	75	28	1.11	8.3	5.87	.10
91	5081505A	180774	.1	56	5	11	2	0	0	1	2	96	52	1.42	5.9	3.05	.19
92	5081505A	180900	0.	16	5	9	0	1	0	1	0	87	77	2.46	2.9	.96	.19
93	5081505A	180901	0.	21	5	5	0	1	0	1	1	72	111	2.70	3.0	1.72	.29
94	5081505A	180902	.3	60	5	10	3	0	0	3	5	38	41	1.41	6.3	6.00	.06
95	5081505A	180903	.4	80	5	13	2	1	0	3	5	47	41	1.37	7.0	6.19	.07
96	1081505A	180904	.5	44	5	6	0	0	0	1	4	60	34	1.47	3.4	4.01	.35
97	5081505A	180905	.2	70	5	12	2	0	0	2	2	79	77	1.69	6.7	4.35	.14
98	6081505A	181085	.5	130	5	10	1	0	0	4	15	6	5	.14	5.610	.47	.01
99	6081505A	181086	.3	128	5	5	1	0	0	4	16	5	6	.14	5.510	.56	.01
100	6081505A	181087	.5	128	5	9	1	0	0	4	14	5	6	.15	5.710	.49	.01
101	1081505A	181088	.2	113	5	5	1	0	0	3	14	3	8	.12	4.810	.15	.01
102	1081505A	181089	.6	125	5	11	1	0	0	4	15	8	8	.18	6.110	.36	.03
103	6081505A	181090	.4	127	5	8	1	0	0	3	9	23	16	.37	5.9	8.93	.05
104	5081505A	181091	.2	85	5	11	2	0	0	1	4	48	12	.82	6.2	5.51	.09
105	5081505A	181092	.0	57	5	7	0	0	0	1	4	57	22	.85	4.5	4.57	.13
106	5081505A	181093	0.	45	5	6	3	0	0	1	2	93	75	1.22	5.5	2.71	.17
107	6081505A	181107	.3	128	5	6	2	0	0	3	15	7	4	.35	5.210	.46	.01
108	6081505A	181108	.3	125	5	8	2	0	0	3	13	14	6	.27	5.510	.19	.03
109	6081505A	181109	.4	125	5	7	1	1	0	4	15	4	4	.15	5.510	.50	.01
110	6081505A	181110	.5	131	5	10	1	1	0	4	15	4	6	.16	5.810	.53	.01
111	6081505A	181111	.5	137	5	9	2	0	0	4	12	10	19	.32	6.6	9.76	.02
112	5081505A	181112	.2	105	5	9	1	1	0	2	4	66	25	.87	6.7	5.07	.11
113	6081505A	181113	.4	109	5	10	3	0	0	3	7	47	17	.66	6.8	7.43	.07
114	5081505A	181114	.2	69	5	47	2	0	0	2	2	154	26	1.56	6.4	3.48	.29
115	6081505A	181115	.3	104	5	9	1	0	0	2	3	59	61	1.19	6.4	5.65	.08
116	5081505A	181117	0.	22	5	5	2	0	0	0	0	139	67	1.70	4.5	1.08	.17

117	5081505A	181118	0.	36	5	5	3	0	0	1	2	81	51	1.30	4.9	2.97	.12
118	5081505A	181119	.3	55	5	9	2	2	0	1	0	128	92	2.45	6.3	2.43	.11
119	5081505A	181120	0.	28	15	5	2	1	0	0	1	90	188	1.73	4.8	1.80	.11
120	1081505A	181121	.1	31	5	10	2	0	0	0	1	59	416	2.10	3.8	2.02	.30
121	5081505A	181123	.3	106	5	12	2	0	0	2	3	71	44	1.47	7.6	4.78	.10
122	5081505A	181124	.3	80	5	16	2	0	0	2	2	97	37	1.20	7.1	4.01	.13
123	5081505A	181125	.4	70	5	12	2	1	0	2	2	109	43	1.24	8.4	4.59	.14
124	6081505A	181126	.7	135	5	12	0	1	0	4	9	20	18	.42	7.4	9.21	.03
125	6081505A	181127	.7	146	5	11	2	0	0	5	13	5	13	.21	6.7	10.09	.02
126	6081505A	181128	.6	135	5	8	2	0	0	5	14	4	7	.16	6.3	10.50	.01
127	6081505A	181129	.5	131	5	6	2	0	0	4	14	5	8	.17	5.8	10.39	.01
128	6081505A	181130	.4	127	5	10	2	0	0	4	14	6	7	.21	5.6	10.35	.01
129	6081505A	181131	.4	130	5	6	2	0	0	4	14	3	5	.13	5.9	10.52	.01
130	6081505A	181132	.5	133	5	10	2	0	0	4	15	4	7	.14	6.0	10.56	.01
131	6081505A	181133	.6	137	5	9	1	0	0	5	15	4	9	.15	6.3	10.57	.01
132	6081505A	181134	.6	131	5	10	1	1	0	4	13	7	17	.35	6.6	10.05	.02
133	6081505A	181135	.0	78	5	6	1	0	0	1	4	74	36	1.09	4.7	5.27	.13
134	6081505A	181136	.3	82	5	5	2	0	0	3	6	65	24	.83	6.5	6.39	.08
135	5081505A	181137	0.	62	5	9	2	0	0	1	4	65	48	1.25	5.1	4.72	.12
136	5081505A	181138	.0	43	5	6	2	1	0	1	2	81	67	1.37	5.6	3.33	.12
137	5081505A	181139	.0	40	5	5	2	0	0	0	0	71	135	1.31	6.5	1.70	.13
138	5081505A	181140	0.	25	5	5	1	1	0	0	1	70	52	1.98	3.8	1.91	.13
139	5081505A	181141	0.	26	5	3	1	0	0	0	2	65	47	1.38	3.9	2.22	.15
140	5081505A	181142	0.	28	10	10	4	0	0	0	0	90	61	2.13	4.4	1.49	.13
141	5081505A	181300	0.	60	5	7	0	0	0	1	4	77	20	1.29	4.1	4.46	.16
142	5081505A	181301	0.	34	5	6	2	0	0	1	1	114	29	1.51	4.2	2.38	.22
143	6081505A	181302	.0	66	5	9	0	0	0	1	2	93	27	1.33	4.5	3.37	.20
144	5081505A	181325	.1	24	5	4	4	0	0	0	1	124	90	1.23	3.9	1.14	.20
145	5081505A	181326	.0	16	5	3	2	0	0	0	0	108	108	1.33	3.3	1.01	.22
146	5081505A	181327	0.	16	5	5	1	0	0	0	1	112	94	1.14	2.9	1.11	.18
147	5081505A	181328	0.	10	5	2	2	0	0	0	0	89	93	1.19	2.7	.87	.12
148	6081505A	181407	.6	127	5	5	2	0	0	4	14	4	7	.19	5.6	10.37	.01
149	5081505A	181408	.6	116	5	5	2	1	0	3	14	3	6	.16	5.7	10.21	.01
150	5081505A	181409	.2	90	20	4	0	0	0	1	6	31	27	.82	4.7	6.35	.05
151	5081505A	181410	.2	51	5	19	1	0	0	0	3	65	27	1.22	5.0	3.36	.14
152	5081505A	181411	.0	21	5	5	2	0	0	0	0	135	21	1.30	5.5	1.47	.16
153	5081505A	181412	.1	23	10	6	1	0	0	0	2	98	28	1.30	4.1	1.71	.17
154	5081505A	181413	.0	22	10	5	1	0	0	0	1	80	63	1.17	3.7	1.58	.18
155	5081505A	181414	.2	31	15	5	2	0	0	0	1	57	50	1.27	4.9	2.47	.11
156	5081505A	181415	.1	24	5	3	0	0	0	1	52	91	1.28	3.1	1.61	.14	
157	1081505A	181416	.5	122	5	5	1	0	0	3	16	3	5	.10	5.4	10.69	.01
158	5081505A	181417	.2	64	5	6	2	0	0	1	6	45	56	.81	5.0	5.65	.09
159	5081505A	181418	.1	36	5	3	2	0	0	0	3	53	93	.89	3.5	2.56	.15
160	5081505A	181419	.3	87	5	3	1	0	0	3	59	90	1.34	5.1	3.52	.13	
161	5081505A	181420	.4	92	5	7	0	1	0	2	7	35	28	.79	5.5	6.85	.07
162	5081505A	181421	.1	47	5	6	2	0	0	0	1	82	84	1.09	5.1	2.05	.12
163	5081505A	181422	.1	59	5	28	0	0	0	1	5	81	34	.65	4.2	5.01	.15
164	5081505A	181428	.1	30	5	3	2	0	0	0	2	61	59	1.25	3.8	2.60	.13
165	5081505A	181429	.0	26	20	3	1	0	0	0	1	74	47	1.28	3.0	1.39	.14
166	5081505A	181430	.2	44	5	4	1	0	0	0	2	84	68	1.58	3.8	2.41	.22
167	6081505A	181431	.3	59	30	5	2	1	0	1	0	116	110	2.68	4.6	1.94	.32
168	5081505A	181432	0.	29	5	1	1	0	0	0	1	68	10	1.34	2.2	1.64	.30
169	5081505A	181433	0.	11	5	9	0	0	0	0	0	120	30	2.01	2.7	.71	.18
170	5081505A	181434	.1	12	20	3	1	0	0	0	0	86	27	1.91	2.8	.93	.16
171	6081505A	181435	.2	27	5	8	1	0	0	1	0	117	100	2.74	4.5	1.31	.22
172	5081505A	181436	.5	20	5	15	2	0	0	0	0	148	62	1.79	7.0	.96	.21
173	5081505A	181437	.2	55	5	11	1	0	0	1	3	54	126	1.24	3.7	3.22	.41
174	1081505A	181438	.4	48	5	18	0	0	0	1	5	40	162	1.18	3.4	4.17	.63

175	5081505A	181439	.2	35	5	7	1	0	0	1	0	85	151	1.90	4.6	1.69	.26
176	5081505A	181467	.2	21	5	8	2	0	0	0	0	152	19	1.48	5.6	1.31	.17
177	5081505A	181468	.1	18	5	3	1	0	0	0	0	103	45	1.65	4.6	1.20	.12
178	5081505A	181469	.1	27	5	6	1	1	0	1	1	108	41	1.88	4.4	2.26	.15
179	5081505A	181470	.2	27	5	8	2	1	0	1	0	112	46	2.28	6.1	1.49	.09
180	5081505A	181471	.2	44	40	6	2	0	0	1	2	58	62	1.48	5.3	3.31	.13
181	5081505A	181472	.3	44	5	12	2	0	0	1	1	84	103	1.57	5.4	2.65	.24
182	5081505A	181473	.2	73	5	10	2	0	0	1	3	49	135	1.02	4.6	3.84	.28
183	5081505A	181474	.2	41	30	11	2	1	0	0	1	79	52	1.34	5.6	2.54	.09
184	5081505A	181475	.1	41	5	7	1	0	0	1	1	83	70	1.35	4.9	2.89	.09
185	6081505A	190006	.3	15	60	11	0	0	1	1	0	60	189	1.40	2.7	.89	.91
186	6081505A	190007	.3	15	5	7	0	0	1	1	2	46	61	1.42	2.3	1.44	3.12
187	5081505A	190008	1.3	23	10	15	1	1	1	2	1	91	321	1.78	4.2	.98	2.17
188	5081505A	190010	.4	17	5	13	0	0	0	1	0	65	269	1.69	2.9	.65	.47
189	5081505A	190011	.3	17	5	12	0	0	1	1	0	66	273	1.67	2.9	.63	.44
190	5081505A	190191	.1	34	20	11	1	0	0	0	1	59	54	1.87	4.4	2.54	.13
191	5081505A	190192	.0	25	20	2	0	0	0	0	2	54	40	1.39	3.1	2.22	.13
192	5081505A	190193	.1	21	35	2	0	0	0	0	2	59	39	1.57	2.6	1.97	.13
193	5081505A	190194	.2	72	15	4	0	0	0	1	4	53	33	1.55	4.5	4.48	.13
194	5081505A	190195	.0	27	20	3	0	1	0	0	1	64	48	2.16	2.8	1.76	.21
195	1081505A	190196	.0	27	10	1	1	0	0	0	2	47	76	1.48	2.9	2.58	.11
196	5081505A	190197	.5	79	5	9	2	1	0	2	5	34	43	1.30	6.2	6.60	.07
197	5081505A	190198	.3	52	5	5	2	0	0	1	4	38	65	1.37	5.3	4.98	.09
198	5081505A	190199	.3	56	5	10	2	1	0	1	4	64	36	1.60	5.0	4.09	.17
199	5081505A	190200	.4	70	5	14	1	1	0	2	4	52	34	1.33	5.8	5.55	.17
200	5081505A	190214	.2	61	5	7	0	0	0	2	5	34	39	1.09	5.1	5.93	.08
201	5081505A	190215	.3	57	5	7	0	0	0	1	5	40	43	1.31	4.7	5.24	.09
202	5081505A	190216	.6	75	5	7	2	0	0	2	2	78	55	1.93	7.5	4.74	.08
203	5081505A	190217	.2	52	10	5	1	0	0	1	3	49	37	1.65	4.9	4.38	.08
204	5081505A	190218	.2	90	5	7	3	1	0	1	2	63	37	2.05	4.8	2.82	.14
205	5081505A	190219	.1	42	15	3	0	0	0	1	2	59	38	2.02	3.6	3.09	.18
206	5081505A	190220	.0	35	5	3	0	0	0	0	3	44	44	1.32	3.3	3.38	.15
207	5081505A	190221	.0	29	15	6	0	1	0	0	2	64	44	1.96	3.6	2.19	.16
208	5081505A	190222	0.	12	5	1	0	0	0	0	0	67	42	1.44	2.1	.63	.28
209	5081505A	190224	0.	12	5	4	0	0	0	0	0	171	45	.93	2.8	.49	.23
210	5081505A	190225	.0	34	5	6	0	2	0	0	0	126	30	1.96	2.9	.76	.36
211	5081505A	190226	0.	20	5	11	2	2	0	1	0	150	39	2.20	4.4	.97	.25
212	5081505A	190227	0.	20	5	13	1	1	0	1	1	288	27	1.26	4.0	1.02	.29
213	5081505A	190228	.1	30	5	11	0	2	0	0	1	83	62	2.26	2.8	1.02	.39
214	6081505A	190229	0.	28	5	9	2	1	0	1	0	228	28	1.52	4.4	1.03	.30
215	5081505A	190230	.2	26	5	10	1	1	0	1	0	144	20	2.92	3.6	1.24	.29
216	5081505A	190231	.1	21	30	15	0	0	0	1	1	163	39	1.67	3.1	.86	.69
217	5081505A	190232	.2	23	5	12	3	1	0	0	0	113	45	1.84	3.7	.73	.45
218	5081505A	190233	.3	44	20	13	3	2	1	1	0	122	49	2.82	4.1	.95	.52
219	5081505A	190234	0.	14	5	11	0	0	0	1	0	186	24	1.78	3.6	1.15	.36
220	5081505A	190235	1.3	7	40	7	2	0	2	1	0	126	28	4.41	7.4	.37	.11
221	5081505A	190244	.1	12	5	7	2	0	0	0	0	116	30	2.52	4.3	.69	.22
222	5081505A	190245	.4	11	5	7	0	1	0	1	0	102	31	3.43	3.3	.72	.23
223	5081505A	190246	.3	34	5	13	2	0	0	1	1	106	61	2.82	4.4	1.76	.55
224	5081505A	190311	.3	48	5	7	2	0	0	1	2	68	72	1.51	4.8	3.74	.17
225	5081505A	190312	.1	28	5	1	2	0	0	0	1	94	56	1.33	4.1	1.77	.26
226	5081505A	190313	.1	26	5	6	2	0	0	0	0	112	40	1.70	4.5	1.68	.22
227	5081505A	190314	0.	14	0	0	0	0	0	0	0	23	16	.43	1.0	.30	.05
228	5081505A	190315	.2	40	5	4	2	0	0	1	1	86	81	1.83	5.2	2.02	.20
229	5081505A	190316	.4	28	5	9	13	0	0	1	0	134	63	2.02	6.4	2.13	.12
230	5081505A	190317	.1	31	5	27	2	0	0	0	0	75	160	1.30	4.6	1.54	.12
231	5081505A	190327	.2	71	5	5	2	1	0	0	1	77	104	1.61	4.2	2.59	.18
232	5081505A	190328	.2	36	5	9	2	0	0	0	3	57	42	1.31	4.0	3.50	.16

233	5081505A	190329	.1	40	5	5	2	0	0	0	0	90	56	1.54	4.5	1.75	.19
234	5081505A	190330	0.	15	5	1	0	0	0	0	1	68	68	1.43	2.0	.97	.19
235	5081505A	190331	.3	80	5	6	2	1	0	1	4	60	37	.92	5.1	4.74	.10
236	5081505A	190332	.2	21	5	6	2	1	0	0	0	101	67	1.83	4.5	1.19	.16
237	5081505A	190333	.0	21	5	4	2	0	0	0	0	109	109	1.23	4.5	.81	.18
238	5081505A	190379	.2	33	175	3	2	0	0	0	0	87	83	2.06	4.2	1.96	.20
239	5081505A	190380	.0	22	5	0	2	0	0	0	1	73	72	1.08	2.8	1.42	.15
240	6081505A	190381	.2	52	5	5	2	1	0	1	2	101	62	1.59	4.2	2.71	.28
241	5081505A	190382	0.	31	5	0	0	0	0	0	2	50	5	.92	2.3	1.95	.11
242	1081505A	190383	.7	121	5	9	2	0	0	4	15	7	5	.10	5.8	10.78	.01
243	5081505A	190384	.7	89	5	13	2	0	0	1	1	109	42	1.35	8.2	3.53	.23
244	5081505A	190385	.2	39	5	8	2	0	0	0	1	98	25	1.45	5.1	2.51	.25
245	5081505A	190386	.6	87	5	9	2	0	0	2	5	47	24	1.40	6.4	6.40	.09
246	8181505A	272201	0.	16	5	7	5	0	0	0	0	0	0				
247	8181505A	272202	0.	10	5	14	5	0	0	0	0	0	0				
248	8981505A	272203	.7	5	50	3	35	1	0	0	0	0	0				
249	8981505A	272204	1.5	14	5	0	5	4	0	0	0	0	0				
250	8981505A	272205	29.7	19	155	11	5	13	0	0	0	0	0				
251	8381505A	272206	0.	13	5	6	5	0	0	0	0	0	0				
252	8381505A	272207	0.	18	5	9	5	0	0	0	0	0	0				
253	8381505A	272208	0.	18	5	12	5	0	0	0	0	0	0				
254	8381505A	272209	0.	20	5	11	5	0	0	0	0	0	0				
255	8381505A	272210	.1	22	5	11	5	0	0	0	0	0	0				
256	8381505A	272211	.1	26	5	12	5	0	0	0	0	0	0				
257	8381505A	272212	0.	26	5	13	5	0	0	0	0	0	0				
258	8381505A	272213	.2	22	5	18	5	1	0	0	0	0	0				
259	8381505A	272214	.1	27	5	15	5	0	0	0	0	0	0				
260	8381505A	272215	0.	17	5	13	5	0	0	0	0	0	0				
261	8381505A	272216	.0	16	5	10	5	0	0	0	0	0	0				
262	8981505A	272217	.2	21	10	9	5	0	0	0	0	0	0				
263	8181505A	272218	.4	75	5	19	40	0	0	0	0	0	0				
264	6081505A	625401	0.	10	5	5	30	0	0	0	0	0	0				
265	5081505A	625402	.4	9	10	8	50	3	0	0	0	0	0				
266	5081505A	625403	.2	11	5	5	30	0	0	0	0	0	0				
267	6081505A	625404	.5	31	45	6	10	2	0	0	0	0	0				
268	6081505A	625405	.6	31	70	7	30	2	0	0	0	0	0				
269	6081505A	625406	1.1	22	70	6	30	0	0	0	0	0	0				
270	6081505A	625407	9.0	30	530	11	60	6	0	0	0	0	0				
271	6081505A	625408	4.5	43	55	9	5	3	0	0	0	0	0				
272	6081505A	625409	1.9	32	30	6	15	1	0	0	0	0	0				
273	6081505A	625410	2.4	28	250	8	50	3	0	0	0	0	0				
274	6081505A	625411	3.7	35	70	9	15	1	0	0	0	0	0				
275	6081505A	625412	1.1	36	40	12	20	1	0	0	0	0	0				
276	6081505A	625413	.3	31	15	8	15	0	0	0	0	0	0				
277	6081505A	625414	.8	42	35	12	5	3	0	0	0	0	0				
278	5281505A	625415	.1	36	15	15	35	1	0	0	0	0	0				
279	5081505A	980036	.2	25	5	6	0	0	1	0	1	89	57	2.93	2.9	1.35	.47
280	6081505A	980059	.3	17	5	9	1	1	0	1	0	106	57	4.20	3.5	1.09	.26
281	6081505A	980060	.2	19	5	1	2	1	0	0	0	96	104	2.87	3.3	.63	.20
282	6081505A	980061	.2	42	5	5	1	2	0	1	0	102	81	2.82	3.2	.85	.65
283	6081505A	980062	.4	36	15	5	1	2	0	1	0	94	61	3.46	3.5	.94	.78
284	6081505A	980063	.5	46	20	12	2	4	0	2	0	108	95	3.57	4.4	1.54	.60
285	6081505A	980064	.9	57	190	14	2	7	0	2	0	123	87	3.76	5.8	1.65	.49
286	6081505A	980065	.4	29	15	4	2	4	0	1	0	105	100	3.18	4.2	1.16	.35
287	6081505A	980066	.4	36	10	10	1	3	0	2	0	121	81	3.66	4.3	1.82	.43
288	6081505A	980069	1.0	61	50	8	2	10	0	2	0	104	62	3.53	4.8	1.67	.64
289	6081505A	980070	.6	44	50	5	2	2	0	1	0	97	101	2.80	4.1	1.44	.63
290	6081505A	980071	.4	33	45	1	0	1	0	0	0	111	159	2.40	3.5	.87	.44

291	5081505A	980072	.4	34	5	1	2	1	0	1	0	143	83	3.35	4.2	1.11	.30
292	5081505A	980073	.1	14	10	11	0	0	1	1	0	101	52	3.72	3.4	.86	.21
293	5081505A	980074	.1	24	5	9	0	1	0	1	1	103	39	2.68	3.2	1.49	.54
294	5081505A	980076	.0	15	10	6	0	0	1	0	0	82	83	1.98	2.5	.81	.38
295	5081505A	980077	.1	10	5	9	1	1	1	1	0	112	46	3.39	4.1	.73	.23
296	5081505A	980078	.6	18	5	4	2	1	1	1	0	134	96	4.27	7.0	.70	.14
297	5081505A	980080	.3	24	10	11	2	1	0	2	0	137	65	3.76	5.3	1.35	.18
298	5081505A	980081	.8	21	5	3	1	2	0	2	0	83	29	5.59	3.7	.89	.49
299	5081505A	980082	.2	16	5	6	1	0	1	0	95	55	2.95	3.4	1.04	.30	
300	5081505A	980083	.5	15	5	3	2	1	0	1	0	87	51	3.08	3.6	.87	.16
301	5081505A	980084	.4	12	5	1	2	1	0	0	0	69	39	3.08	3.1	.78	.15
302	5081505A	980085	.5	37	10	4	2	2	0	0	0	113	38	3.10	4.2	1.36	.16
303	5081505A	980086	.0	23	15	4	0	1	0	0	0	64	47	2.15	2.2	.93	.27
304	5081505A	980087	.2	57	5	3	0	2	0	1	3	51	49	1.47	3.8	4.08	.16
305	5081505A	980089	.1	17	5	3	1	1	0	0	0	78	36	2.34	2.8	.85	.19
306	5081505A	980091	.1	17	5	0	0	0	0	0	0	59	43	3.72	2.6	.62	.15
307	1081505A	980092	.1	33	5	2	0	1	0	0	2	55	55	1.67	1.9	1.79	.39
308	5081505A	980093	.0	10	5	1	0	0	0	0	0	69	42	2.16	2.4	.81	.11
309	5081505A	980094	.1	10	5	0	0	0	0	0	0	76	49	2.54	2.5	.57	.17
310	5081505A	980095	.2	27	5	4	1	1	0	1	0	110	59	3.27	3.4	1.07	.28
311	5081505A	980096	.1	36	5	3	0	1	0	0	1	68	38	2.32	2.4	.95	.36
312	1081505A	980098	.3	35	10	2	0	2	0	0	0	76	43	2.17	2.5	1.02	.39
313	5081505A	980099	.0	16	10	3	0	1	0	0	0	66	36	1.96	2.1	.83	.32
314	6081505A	980100	.2	32	50	4	1	3	0	1	1	105	50	3.14	3.4	1.19	.34
315	5081505A	980101	.2	25	30	3	2	1	0	0	0	92	27	1.73	3.3	1.16	.24
316	6081505A	980102	.2	20	10	4	0	1	0	1	0	109	48	3.00	3.5	1.26	.24
317	5081505A	980103	0.	16	280	3	0	0	0	0	0	72	41	1.66	2.2	.71	.40
318	5081505A	980104	.1	29	15	2	0	3	0	0	1	80	64	2.57	2.9	1.04	.32
319	5081505A	980107	.1	29	5	6	1	1	0	0	0	101	49	2.17	3.1	.91	.31
320	5081505A	980108	.1	10	5	4	0	0	1	0	0	88	31	2.69	2.7	.45	.26
321	5081505A	980109	.1	14	5	4	1	0	0	0	0	87	55	2.39	2.9	.64	.32
322	5081505A	980112	.2	20	5	3	0	1	0	0	0	81	47	2.37	2.8	.59	.44
323	5081505A	980113	.2	13	45	6	1	1	0	1	0	104	34	3.64	3.3	.70	.22
324	5081505A	980114	.1	8	5	2	0	1	0	0	0	79	37	3.50	2.7	.46	.19
325	5081505A	980115	.1	8	5	3	0	0	0	0	0	125	32	2.64	3.5	.55	.19
326	5081505A	980116	.2	9	5	2	2	1	0	0	0	110	26	2.26	3.6	.60	.19
327	5081505A	980117	0.	12	5	5	1	0	0	0	0	116	34	1.50	2.9	.63	.24
328	1081505A	980118	.2	26	5	22	1	0	0	0	0	91	84	1.90	2.8	1.02	.59
329	5081505A	980119	0.	7	45	10	1	0	0	1	0	241	29	1.00	3.2	.34	.24
330	5081505A	980121	.0	36	10	6	0	1	0	0	0	79	30	1.90	2.6	.81	.36
331	5081505A	980122	0.	17	15	9	0	0	0	1	0	133	18	2.12	3.5	.92	.35
332	1081505A	980123	.4	14	5	1	0	0	0	0	0	35	76	1.19	1.1	.27	1.18
333	5081505A	980124	.1	9	5	5	1	0	0	0	0	116	35	2.07	3.1	.58	.21
334	5081505A	980125	.1	16	10	0	0	1	0	1	0	83	43	4.03	2.8	.70	.21
335	5081505A	980126	.2	7	5	6	2	0	0	0	0	107	25	2.37	3.4	.53	.22
336	5081505A	980128	.5	26	5	1	0	1	0	0	0	28	59	1.62	.9	.18	1.86
337	5081505A	980129	.0	14	5	3	1	0	0	0	0	77	35	1.70	2.8	.61	.37
338	5081505A	980131	.2	30	10	6	2	1	1	0	0	80	54	2.67	3.2	.73	.34
339	5081505A	980132	.1	26	10	3	1	1	0	0	0	66	42	2.16	2.4	.62	.45
340	5081505A	980133	0.	7	5	7	2	0	0	0	0	123	42	2.16	3.8	.45	.15
341	5081505A	980134	0.	6	5	3	0	0	0	0	0	87	20	.79	1.1	.19	.11
342	5081505A	980135	.5	40	10	6	1	2	0	1	0	118	45	3.17	3.5	1.74	.63
343	5081505A	980136	.1	18	5	4	2	0	0	0	0	104	101	1.41	3.9	1.35	.16
344	5081505A	980137	.0	9	5	1	0	0	0	0	0	73	76	1.24	1.9	.58	.12
345	5081505A	980138	.1	32	5	3	3	0	0	0	2	102	16	1.36	4.0	2.34	.21



			Ti%	P%	Mn	La	In	B	Cr	Nb	
1	5081505A	140122	.09	.05	158	5	0	2	71	4	0
2	5081505A	140123	.08	.03	233	1	0	2	316	2	0
3	5081505A	140124	.25	.05	220	4	0	2	51	7	0
4	5081505A	140125	.07	.05	247	3	1	2	52	2	0
5	5081505A	140126	.24	.04	156	6	1	2	37	16	1
6	5081505A	140127	.16	.05	145	3	1	3	51	5	0
7	5081505A	140128	.30	.03	116	3	1	2	44	5	0
8	5081505A	140129	.11	.05	180	3	1	3	59	3	0
9	5081505A	140130	.10	.07	152	4	0	2	68	4	0
10	5081505A	140131	.18	.04	212	3	0	2	95	4	0
11	5081505A	140132	.17	.04	265	3	0	2	70	3	0
12	5081505A	140133	.13	.05	912	8	1	2	186	6	0
13	5081505A	140134	.13	.04	507	5	0	2	56	6	0
14	5081505A	140135	.15	.04	185	3	0	2	46	3	0
15	5081505A	140136	.19	.04	190	4	0	3	49	6	0
16	5081505A	140137	.32	.03	161	3	1	3	127	5	0
17	5081505A	140138	.13	.03	379	5	0	2	46	4	0
18	5081505A	140139	.44	.03	157	4	1	2	141	5	0
19	5081505A	140140	.02	.18	382	10	0	4	64	5	0
20	5081505A	180038	.02	.17	247	12	0	2	42	8	0
21	5081505A	180039	.13	.05	888	6	1	3	39	6	0
22	5081505A	180040	.04	.13	215	13	0	2	52	11	0
23	5081505A	180041	.02	.18	968	6	0	2	46	3	0
24	5081505A	180042	.28	.04	259	6	0	8	106	12	0
25	5081505A	180043	.10	.06	355	5	0	2	74	5	0
26	5081505A	180044	.00	.07	829	5	0	1	74	4	0
27	5081505A	180045	.18	.03	198	4	0	3	56	4	0
28	5081505A	180046	.15	.04	155	5	0	3	51	4	0
29	5081505A	180047	.20	.03	138	4	1	5	34	5	0
30	5081505A	180048	.21	.03	116	6	1	2	24	10	0
31	5081505A	180049	.09	.05	318	7	1	3	20	4	0
32	5081505A	180050	.23	.03	113	3	1	4	25	3	0
33	5081505A	180063	.06	.08	633	6	0	3	46	5	0
34	5081505A	180064	.18	.03	166	4	0	3	50	3	0
35	5081505A	180065	.14	.03	166	3	0	2	220	3	0
36	5081505A	180066	.20	.05	188	3	1	2	76	3	0
37	5081505A	180067	.20	.02	215	3	1	3	49	4	0
38	5081505A	180068	.16	.05	167	4	1	3	48	4	0
39	5081505A	180069	.08	.07	924	5	1	3	75	3	0
40	5081505A	180070	.06	.06	288	5	1	5	85	2	0
41	5081505A	180071	.09	.04	165	3	1	7	65	2	0
42	5081505A	180072	.07	.06	241	4	0	6	69	2	0
43	5081505A	180073	.14	.05	1672	4	1	5	59	3	0
44	5081505A	180074	.08	.09	636	4	0	3	54	2	0
45	5081505A	180075	.14	.05	177	5	0	3	64	3	0
46	5081505A	180076	.14	.05	211	4	0	4	56	3	0
47	5081505A	180077	.13	.04	222	3	0	7	77	3	0
48	5081505A	180602	.07	.07	766	7	0	4	151	4	0
49	5081505A	180603	.05	.04	748	8	2	2	121	5	0
50	5081505A	180604	.06	.03	620	7	1	5	221	4	0
51	5081505A	180605	.08	.02	484	6	1	4	210	3	0
52	5081505A	180606	.09	.07	886	7	1	5	161	5	0
53	5081505A	180607	.07	.03	481	4	0	5	164	3	0
54	5081505A	180608	.07	.06	278	4	0	4	143	4	0
55	5081505A	180609	.10	.07	591	6	0	4	173	3	0
56	5081505A	180610	.13	.04	369	6	1	4	150	3	0
57	5081505A	180611	.12	.05	244	4	0	4	137	3	0
58	5081505A	180612	.03	.08	1202	14	0	3	108	6	0

59	5081505A	180613	.08	.04	356	5	1	4	132	3	0
60	5081505A	180614	.08	.06	347	5	1	4	143	3	0
61	1081505A	180615	.06	.09	358	8	0	6	229	4	0
62	5081505A	180616	.12	.03	441	8	1	4	156	4	0
63	5081505A	180617	.09	.04	435	7	1	5	170	3	0
64	5081505A	180618	.03	.14	1024	11	0	8	278	6	0
65	1081505A	180619	.06	.06	343	6	0	6	203	3	0
66	5081505A	180620	.07	.09	599	7	0	4	167	5	0
67	1081505A	180621	.07	.09	483	7	0	8	200	4	0
68	5081505A	180622	.09	.06	555	7	0	4	155	3	0
69	1081505A	180624	.05	.12	455	9	0	9	168	5	0
70	5081505A	180625	.05	.05	1002	10	1	7	299	6	0
71	5081505A	180626	.11	.06	201	6	0	4	129	6	0
72	5081505A	180627	.16	.04	189	5	0	5	40	3	0
73	5081505A	180628	.25	.05	271	9	0	4	54	12	0
74	5081505A	180629	.14	.09	199	5	0	4	46	5	0
75	5081505A	180630	.13	.10	683	7	0	4	50	6	0
76	1081505A	180631	.15	.05	478	9	1	4	61	3	0
77	5081505A	180632	.11	.09	315	8	0	4	61	4	0
78	1081505A	180633	.08	.05	269	4	0	6	146	2	0
79	5081505A	180634	.03	.09	579	9	0	15	500	6	0
80	1081505A	180635	.07	.08	280	7	0	7	169	3	0
81	5081505A	180636	.04	.10	541	6	0	7	172	4	0
82	5081505A	180637	.10	.06	310	7	1	5	121	4	0
83	5081505A	180638	.10	.03	261	6	0	5	128	3	0
84	5081505A	180639	.11	.05	344	7	0	5	142	4	0
85	5081505A	180640	.05	.10	1115	10	1	5	133	5	0
86	5081505A	180641	.04	.15	560	9	0	8	131	5	0
87	5081505A	180642	.07	.07	647	8	0	8	367	5	0
88	5081505A	180643	.14	.04	283	7	0	5	131	6	0
89	5081505A	180772	.06	.02	492	6	0	7	336	4	0
90	5081505A	180773	.05	.05	1144	11	0	4	285	6	0
91	5081505A	180774	.06	.06	898	8	0	5	279	4	0
92	5081505A	180900	.25	.06	297	6	1	5	66	4	0
93	5081505A	180901	.14	.06	281	7	1	6	97	3	0
94	5081505A	180902	.04	.07	610	10	0	6	212	5	0
95	5081505A	180903	.06	.07	705	10	0	5	171	5	0
96	1081505A	180904	.04	.11	282	6	2	12	143	4	0
97	5081505A	180905	.06	.11	809	9	0	4	178	5	0
98	6081505A	181085	.00	.02	915	9	3	4	121	7	0
99	6081505A	181086	.00	.02	912	8	3	3	117	7	0
100	6081505A	181087	.00	.02	915	9	3	2	122	7	0
101	1081505A	181088	.00	.02	796	7	3	5	91	6	0
102	1081505A	181089	.00	.02	807	9	3	3	145	7	0
103	6081505A	181090	.02	.03	961	8	2	4	241	6	0
104	5081505A	181091	.04	.04	487	8	0	6	354	5	0
105	5081505A	181092	.05	.03	381	6	0	8	249	4	0
106	5081505A	181093	.07	.06	634	8	0	5	262	4	0
107	6081505A	181107	.01	.02	902	8	3	3	193	7	0
108	6081505A	181108	.01	.02	895	9	3	6	159	7	0
109	6081505A	181109	.00	.02	891	8	3	4	125	7	0
110	6081505A	181110	.00	.02	939	9	4	3	99	7	0
111	6081505A	181111	.01	.04	1059	11	2	3	142	7	0
112	5081505A	181112	.05	.03	874	9	0	5	276	5	0
113	6081505A	181113	.03	.05	820	9	0	4	265	6	0
114	5081505A	181114	.07	.07	621	9	0	5	381	5	0
115	6081505A	181115	.04	.08	1054	9	0	6	206	5	0
116	5081505A	181117	.08	.07	382	6	0	4	180	3	0

117	5081505A	181118	.07	.05	303	9	0	5	195	5	0
118	5081505A	181119	.02	.06	556	9	0	6	213	4	0
119	5081505A	181120	.02	.08	298	7	0	5	139	3	0
120	1081505A	181121	.01	.13	344	15	1	6	162	4	0
121	5081505A	181123	.10	.07	995	13	0	6	195	6	0
122	5081505A	181124	.08	.06	806	11	0	8	321	5	0
123	5081505A	181125	.07	.06	740	14	0	3	285	6	0
124	6081505A	181126	.02	.04	1020	13	2	3	176	7	0
125	6081505A	181127	.01	.03	1127	11	2	2	120	7	0
126	6081505A	181128	.00	.02	999	11	5	3	104	7	0
127	6081505A	181129	.00	.02	937	10	3	7	122	7	0
128	6081505A	181130	.01	.02	905	9	3	7	132	7	0
129	6081505A	181131	.00	.02	925	10	3	4	115	7	0
130	6081505A	181132	.00	.02	952	11	2	5	118	7	0
131	6081505A	181133	.00	.02	996	10	3	5	106	7	0
132	6081505A	181134	.01	.04	1024	12	2	3	96	7	0
133	6081505A	181135	.06	.03	683	7	0	5	218	4	0
134	6081505A	181136	.04	.06	696	11	0	6	205	5	0
135	5081505A	181137	.05	.08	552	9	0	7	192	4	0
136	5081505A	181138	.07	.09	509	10	0	6	164	5	0
137	5081505A	181139	.05	.12	987	10	0	8	260	4	0
138	5081505A	181140	.06	.06	253	8	0	7	131	4	0
139	5081505A	181141	.06	.06	258	7	0	7	157	3	0
140	5081505A	181142	.08	.09	461	9	0	6	165	7	0
141	5081505A	181300	.08	.02	464	7	0	7	282	3	0
142	5081505A	181301	.11	.02	309	7	0	5	254	3	0
143	6081505A	181302	.07	.05	546	6	0	6	303	3	0
144	5081505A	181325	.09	.05	517	6	0	3	210	4	0
145	5081505A	181326	.08	.04	182	5	0	4	188	4	0
146	5081505A	181327	.09	.04	245	5	0	4	206	3	0
147	5081505A	181328	.06	.04	102	7	0	3	219	5	0
148	6081505A	181407	.00	.02	923	9	4	2	89	7	0
149	5081505A	181408	.00	.02	781	9	3	2	90	7	0
150	5081505A	181409	.03	.03	639	8	2	4	122	4	0
151	5081505A	181410	.06	.03	262	10	0	5	257	4	0
152	5081505A	181411	.15	.03	210	7	0	4	319	4	0
153	5081505A	181412	.08	.03	216	5	0	5	335	3	0
154	5081505A	181413	.06	.03	247	6	0	4	211	3	0
155	5081505A	181414	.05	.04	299	6	0	5	178	4	0
156	5081505A	181415	.05	.03	198	5	0	4	137	3	0
157	1081505A	181416	.00	.01	856	8	3	2	70	7	0
158	5081505A	181417	.02	.05	453	7	0	4	209	4	0
159	5081505A	181418	.04	.03	313	4	0	5	168	3	0
160	5081505A	181419	.04	.04	1820	7	0	5	196	4	0
161	5081505A	181420	.03	.03	681	9	0	3	176	6	0
162	5081505A	181421	.08	.02	378	8	0	4	217	5	0
163	5081505A	181422	.03	.04	372	6	0	4	198	4	0
164	5081505A	181428	.05	.05	317	6	0	4	125	3	0
165	5081505A	181429	.09	.05	353	5	0	5	224	3	0
166	5081505A	181430	.02	.08	843	7	0	5	138	3	0
167	6081505A	181431	.03	.07	1086	7	0	6	108	3	0
168	5081505A	181432	.10	.02	255	3	0	3	242	2	0
169	5081505A	181433	.23	.05	215	5	0	4	64	5	0
170	5081505A	181434	.14	.06	242	6	0	7	86	5	0
171	6081505A	181435	.13	.09	1311	9	0	4	44	4	0
172	5081505A	181436	.22	.14	584	11	0	2	53	11	0
173	5081505A	181437	.05	.04	601	8	0	5	96	5	0
174	1081505A	181438	.03	.07	597	9	2	6	88	5	0

175	5081505A	181439	.05	.05	661	9	0	3	93	6	0
176	5081505A	181467	.18	.08	200	7	0	4	254	5	0
177	5081505A	181468	.05	.09	275	6	0	4	156	3	0
178	5081505A	181469	.12	.06	278	6	0	4	120	4	0
179	5081505A	181470	.15	.11	485	10	0	3	80	6	0
180	5081505A	181471	.07	.08	599	11	0	4	108	7	0
181	5081505A	181472	.10	.06	705	10	0	3	84	5	0
182	5081505A	181473	.04	.05	905	9	0	4	118	6	0
183	5081505A	181474	.08	.05	373	8	0	3	128	4	0
184	5081505A	181475	.06	.03	317	8	0	5	138	3	0
185	6081505A	190006	.09	.08	497	12	1	9	31	3	0
186	6081505A	190007	.09	.08	359	9	1	15	34	5	0
187	5081505A	190008	.03	.13	1126	22	0	12	27	6	0
188	5081505A	190010	.08	.09	805	17	1	9	33	3	0
189	5081505A	190011	.08	.09	869	17	1	11	34	3	0
190	5081505A	190191	.05	.07	406	7	0	5	142	4	0
191	5081505A	190192	.07	.04	278	5	0	4	143	4	0
192	5081505A	190193	.08	.04	206	4	0	4	147	2	0
193	5081505A	190194	.06	.04	622	7	0	5	177	4	0
194	5081505A	190195	.10	.04	261	5	0	4	110	3	0
195	1081505A	190196	.05	.08	256	5	1	4	129	3	0
196	5081505A	190197	.04	.05	720	10	0	7	137	5	0
197	5081505A	190198	.04	.07	498	9	1	9	159	5	0
198	5081505A	190199	.04	.06	457	10	0	4	183	4	0
199	5081505A	190200	.04	.05	595	10	1	5	162	5	0
200	5081505A	190214	.04	.04	517	8	0	3	138	5	0
201	5081505A	190215	.05	.04	500	10	2	5	156	4	0
202	5081505A	190216	.11	.06	930	10	0	2	167	6	0
203	5081505A	190217	.06	.04	581	7	0	7	158	4	0
204	5081505A	190218	.07	.06	683	7	0	3	115	4	0
205	5081505A	190219	.11	.06	354	7	1	5	130	3	0
206	5081505A	190220	.06	.05	330	6	0	4	119	3	0
207	5081505A	190221	.13	.03	410	6	0	3	115	3	0
208	5081505A	190222	.12	.03	172	5	0	4	35	3	0
209	5081505A	190224	.29	.02	155	5	0	4	72	4	0
210	5081505A	190225	.20	.04	391	7	0	5	44	6	0
211	5081505A	190226	.29	.03	324	8	0	6	48	6	0
212	5081505A	190227	.47	.03	127	6	1	7	171	5	0
213	5081505A	190228	.12	.04	424	6	0	3	70	3	0
214	6081505A	190229	.30	.05	462	6	0	4	68	4	0
215	5081505A	190230	.27	.03	245	8	0	4	74	8	0
216	5081505A	190231	.32	.04	353	5	1	5	109	4	0
217	5081505A	190232	.18	.06	255	11	0	3	45	12	0
218	5081505A	190233	.16	.05	458	11	0	3	75	8	0
219	5081505A	190234	.38	.02	223	4	0	5	120	3	0
220	5081505A	190235	.24	.12	171	13	0	2	100	21	0
221	5081505A	190244	.20	.07	196	5	0	2	55	6	0
222	5081505A	190245	.20	.05	175	5	0	5	68	4	0
223	5081505A	190246	.20	.06	759	9	0	5	86	3	0
224	5081505A	190311	.04	.05	463	9	0	2	181	5	0
225	5081505A	190312	.08	.04	303	4	0	2	264	3	0
226	5081505A	190313	.15	.05	313	7	0	3	211	5	0
227	5081505A	190314	.04	.02	243	2	0	1	27	1	0
228	5081505A	190315	.12	.08	764	9	0	12	168	5	0
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233	5081505A	190329	.09	.05	397	7	0	2	224	4	0
234	5081505A	190330	.10	.02	201	5	0	2	114	3	0
235	5081505A	190331	.05	.03	589	5	0	2	226	4	0
236	5081505A	190332	.07	.07	255	7	0	2	139	4	0
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238	5081505A	190379	.09	.04	375	6	0	5	171	3	0
239	5081505A	190380	.06	.03	353	4	0	4	189	2	0
240	6081505A	190381	.09	.06	493	5	0	3	262	3	0
241	5081505A	190382	.07	.01	225	2	0	2	465	1	0
242	1081505A	190383	.00	.02	855	7	3	1	154	7	0
243	5081505A	190384	.05	.08	800	9	0	1	364	5	0
244	5081505A	190385	.10	.04	334	7	0	2	348	5	0
245	5081505A	190386	.05	.04	689	10	0	2	264	5	0
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247	8181505A	272202									
248	8981505A	272203									
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250	8981505A	272205									
251	8381505A	272206									
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253	8381505A	272208									
254	8381505A	272209									
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262	8981505A	272217									
263	8181505A	272218									
264	6081505A	625401									
265	5081505A	625402									
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268	6081505A	625405									
269	6081505A	625406									
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271	6081505A	625408									
272	6081505A	625409									
273	6081505A	625410									
274	6081505A	625411									
275	6081505A	625412									
276	6081505A	625413									
277	6081505A	625414									
278	5281505A	625415									
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280	6081505A	980059	.16	.09	407	7	0	3	71	3	0
281	6081505A	980060	.09	.11	890	6	0	3	46	4	0
282	6081505A	980061	.09	.14	1053	5	0	5	51	3	0
283	6081505A	980062	.13	.14	607	8	0	6	46	3	0
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291	5081505A	980072	.03	.19	752	11	0	4	87	3	0
292	5081505A	980073	.24	.04	264	7	1	3	51	4	0
293	5081505A	980074	.16	.06	508	7	0	2	76	3	0
294	5081505A	980076	.15	.06	312	7	1	4	31	2	0
295	5081505A	980077	.24	.06	227	7	0	5	49	6	0
296	5081505A	980078	.05	.06	374	9	0	2	48	5	0
297	5081505A	980080	.22	.07	431	10	0	2	78	7	0
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300	5081505A	980083	.15	.08	225	8	0	2	56	8	0
301	5081505A	980084	.13	.06	236	6	0	2	53	6	0
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304	5081505A	980087	.06	.04	420	5	0	4	159	3	0
305	5081505A	980089	.12	.05	279	4	0	4	60	3	0
306	5081505A	980091	.09	.09	174	5	0	5	52	3	0
307	1081505A	980092	.07	.08	215	5	0	9	104	2	0
308	5081505A	980093	.11	.04	83	2	0	2	99	2	0
309	5081505A	980094	.13	.05	160	4	0	13	45	2	0
310	5081505A	980095	.15	.08	345	5	0	2	74	3	0
311	5081505A	980096	.10	.06	303	5	0	5	60	3	0
312	1081505A	980098	.12	.05	304	6	1	4	58	2	0
313	5081505A	980099	.08	.06	195	4	0	5	60	2	0
314	6081505A	980100	.17	.06	403	5	0	3	89	3	0
315	5081505A	980101	.12	.03	224	4	0	3	148	2	0
316	6081505A	980102	.20	.05	313	5	0	3	116	3	0
317	5081505A	980103	.12	.07	207	5	0	5	37	2	0
318	5081505A	980104	.14	.06	289	5	1	2	55	2	0
319	5081505A	980107	.17	.04	679	6	0	2	44	4	0
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322	5081505A	980112	.11	.05	578	8	0	3	36	4	0
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324	5081505A	980114	.12	.06	132	6	0	2	37	4	0
325	5081505A	980115	.22	.06	166	6	0	4	47	6	0
326	5081505A	980116	.16	.07	148	6	0	2	46	4	0
327	5081505A	980117	.16	.04	238	5	0	3	44	2	0
328	1081505A	980118	.10	.08	602	6	0	5	62	3	0
329	5081505A	980119	.48	.03	136	9	1	3	37	7	0
330	5081505A	980121	.11	.04	340	6	0	3	45	3	0
331	5081505A	980122	.27	.05	228	4	0	3	76	3	0
332	1081505A	980123	.04	.11	291	8	0	6	21	2	0
333	5081505A	980124	.19	.04	166	5	1	2	49	3	0
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335	5081505A	980126	.18	.04	136	5	0	3	45	4	0
336	5081505A	980128	.01	.15	667	13	0	7	15	3	0
337	5081505A	980129	.09	.04	242	7	0	2	34	3	0
338	5081505A	980131	.14	.04	286	11	0	2	43	7	0
339	5081505A	980132	.07	.08	426	12	0	3	35	4	0
340	5081505A	980133	.21	.04	148	5	0	2	40	5	0
341	5081505A	980134	.21	.02	62	3	1	1	18	2	0
342	5081505A	980135	.13	.09	457	8	1	4	125	3	0
343	5081505A	980136	.08	.03	179	7	0	3	275	5	0
344	5081505A	980137	.07	.03	91	12	0	2	94	12	0
345	5081505A	980138	.08	.03	261	4	0	4	320	3	0

Appendix 3

Statement of Costs

NIK Claims

1.	Geological Mapping and Geochemical Survey	
	S.J. Hoffman - 3 days, July 14, 15, 16	\$ 738.00
	M.D. Smith - 3 days, July 14, 15, 16	560.00
2.	Food and accomodations	
	6 man days @ \$30/man day	180.00
3.	Helicopter support (Northern Mountain)	1531.40
	Smithers Air Services (50% of invoice)	358.60
	Transport to and from field	213.28
4.	Preparation of metric basemap, xerox reduction of report maps, blackline printing	400.00
5.	Drafting (L. Glaser)	150.00
6.	Computing (UBC)	400.00
	Key punching (Elan Data Makers)	101.94
	Computer Processing (CSC Canada) @ \$1/sample	247.00
7.	Sample analysis	
	Acme	3106.40
8.	Report preparation	
	4 days - S.J. Hoffman and J.L. Gravel	1410.00
	TOTAL:	\$9396.62
		=====

Appointment of work is based on length of time spent in the field traversing, and on the number of geo-chemical samples analyzed on each claim unit.

		<u>Work Claimed</u>	<u>P.A.C.</u>	<u>Total</u>	<u>Years Credit</u>
NIK 5	40%	3758.00	1050.00	4800.00	2
NIK 7	35%	3288.00	320.00	3600.00	2
NIK 9	25%	2349.00	60.00	2400.00	1



Appendix 4

Statement of Qualifications

Dr. S.J. Hoffman

Geochemist

BP Minerals Limited

List of Qualifications - S.J. Hoffman

- BSc 1969 - McGill University (Hons Geology and Chemistry)  
MSc 1972 - The University of British Columbia (Geochemistry)  
PhD 1976 - The University of British Columbia (Geochemistry)

List of Publications

1. Hoffman, S.J., 1972  
Geochemical dispersion in bedrock and glacial overburden around a copper property in south central British Columbia. MSc thesis, unpublished, U.B.C., 209 pp.
2. Hoffman, S.J. and Fletcher, W.K., 1972  
Distribution of copper at the Dansey-Rayfield River property, south central British Columbia.  
J. Geoch. Expl. 1, 163-180.
3. Hoffman, S.J. and Waskett-Myers, M.J., 1974  
Determination of molybdenum in soils and sediments with a modified zinc dithiol procedure.  
J. Geoch. Expl. 3, 61-66.
4. Hoffman, S.J., 1974  
Pebble Cards - A record of the coarse fraction of stream sediments for geochemical exploration.  
J. Geoch. Expl. 3, 387-388.
5. Hoffman, S.J. and Fletcher, W.K., 1976  
Reconnaissance geochemistry on the Nechako Plateau, B.C., using lake sediments.  
J. Geoch. Expl. 5, 101-114.
6. Hoffman, S.J., 1976  
Mineral Exploration of the Nechako Plateau, central British Columbia, using lake sediment geochemistry.  
PhD thesis, unpublished, U.B.C., 347 pp.
7. Hoffman, S.J., 1977  
Talus fine sampling as a regional geochemical exploration technique in mountainous regions.  
J. Geoch. Expl. 7, 349-360.

8. Hoffman, S.J. and Fletcher, W.K., 1979  
Sequential extraction of copper, zinc, iron manganese and molybdenum from soils and sediments.  
In Geochemical Exploration 1978, Proceedings of the Seventh International Geochemical Exploration symposium, Golden, Colorado, 289-299.
9. Hoffman, S.J. and Fletcher, W.K., 1981  
Detailed lake sediment sampling of anomalous lakes on the Nechako Plateau, central British Columbia - Comparison of trace metal distributions in Capoose and Fish Lakes.  
J. Geochemical Exploration 14, 221-224.
10. Hoffman, S.J. and Fletcher, W.K., 1981  
Organic matter scavenging of copper, zinc, molybdenum, iron, and manganese, estimated by a sodium hypochlorite extraction (pH 9.5).  
J. Geochemical Exploration 15, 549-562.
11. Hoffman, S.J., Arnold, P.M. and Zink, E.W., 1981  
Rapid field determination of copper by anodic stripping voltammetry (ASV).  
In press, Encyclopedia of Earth Sciences.
12. Hoffman, S.J., 1981  
Lake sediment geochemistry.  
In press, Encyclopedia of Earth Sciences.
13. Hoffman, S.J., 1981  
Geochemical exploration for unconformity-type uranium deposits in permafrost terrain - Hornby Bay basin, Northwest Territories, Canada. In preparation.

#### List Of Memberships

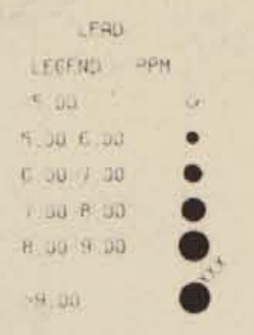
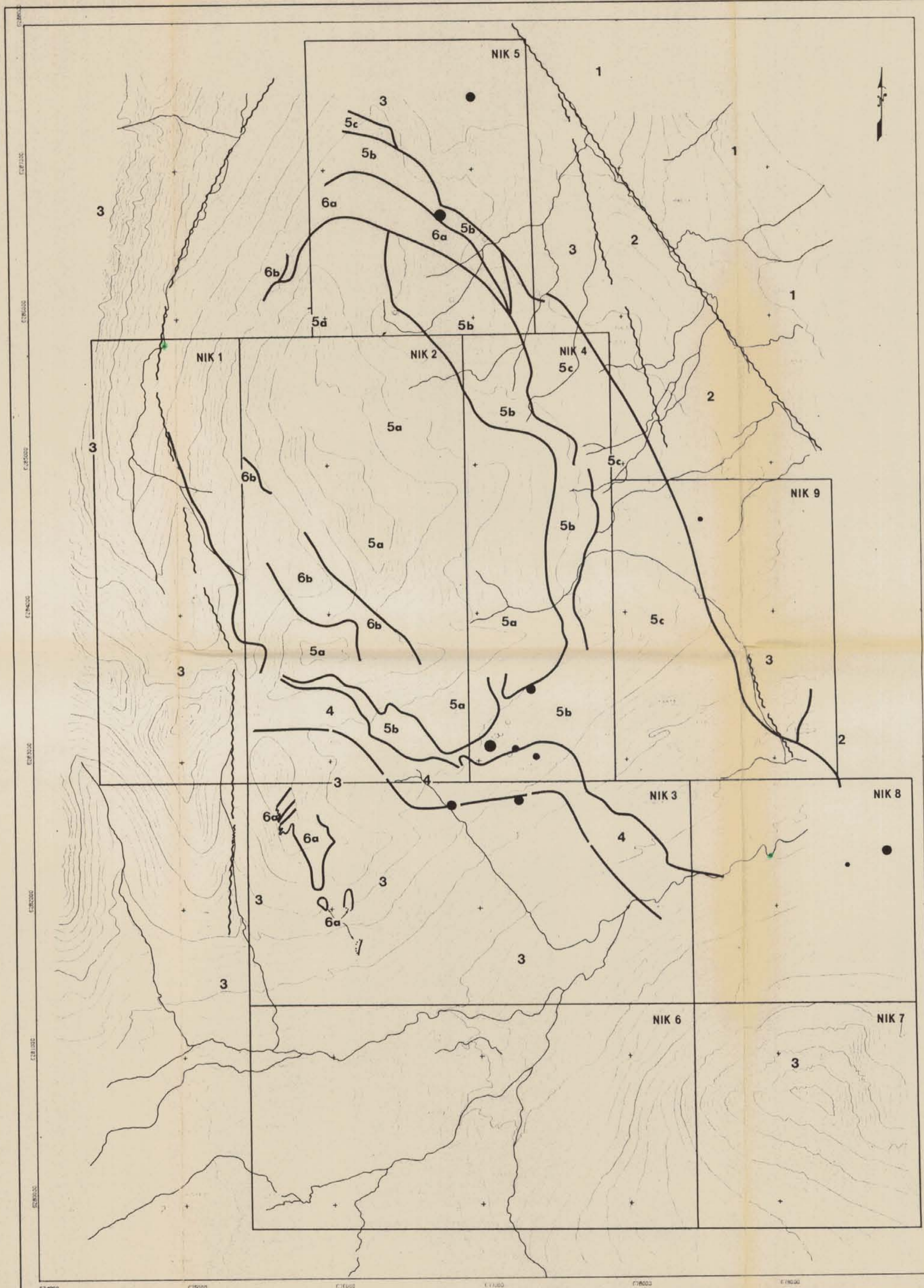
1. Geological Association of Canada, since 1967.
2. Canadian Institute of Mining and Metallurgy, since 1973.
3. Association of Exploration Geochemists, since 1973.
4. American Society of Agronomy, since 1973.

#### Other Qualifications

1. Instructor on methods of geochemical exploration for the B.C. Department of Mines prospecting school, May 1977 - 1981 (5 years)
2. Instructor, Short course on Geochemical Exploration in the Canadian Shield, McGill University, January 1979.

3. Speaker, CIM in Prince George, B.C. on "Lake Sediment Geochemistry", May, 1977.
4. Speaker, Geosciences Council, Yellowknife on "Lake Sedimentary Geochemistry, Hornby Bay area", December 1978, and also December 1980.
5. Instructor, Short course on Geochemical Exploration (computer and statistical applications), Northwest Mining Association, Spokane, Washington, December 1979.
6. Council member, Association of Exploration Geochemists, 1980-1982.
7. Chairman, GOLD-81 Symposium, Precious Metals in the Northern Cordillera: April 12-15, 1981. Co-sponsored by the Association of Exploration Geochemists and the Cordilleran Section of the Geological Association of Canada.
8. Business Editor, Proceedings of the GOLD-81 Symposium (to be published early 1982).



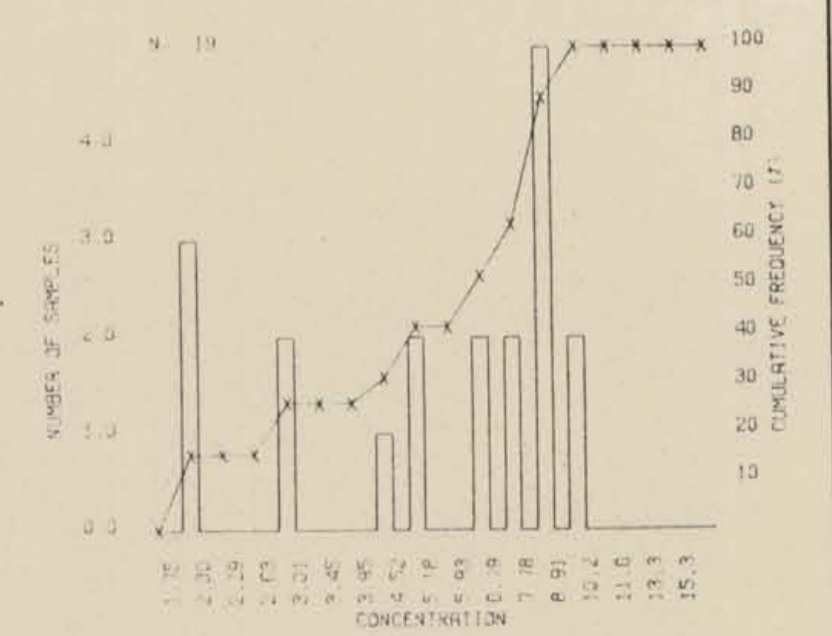
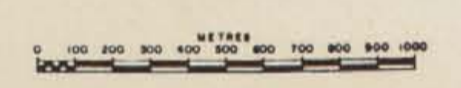
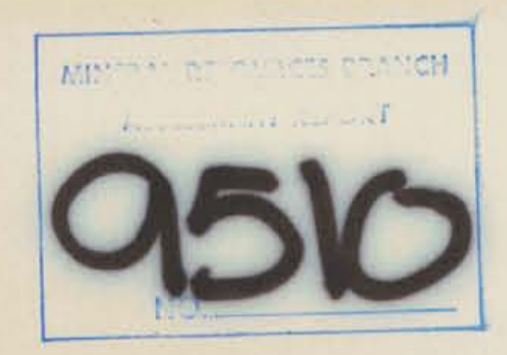


26.8 → 28.5

**LEGEND**

- 6a MONZODIORITE
- 6b QUARTZ DIORITE
- 5a DUNITE
- 5b PERIDOTITE, PYROXENITE
- 5c HORNBLENDITE
- 4 AMPHIBOLITE
- 3 TAKLA VOLCANICS
- 2 LAY RANGE VOLCANICS
- 1 INGENIKA SEDIMENTS

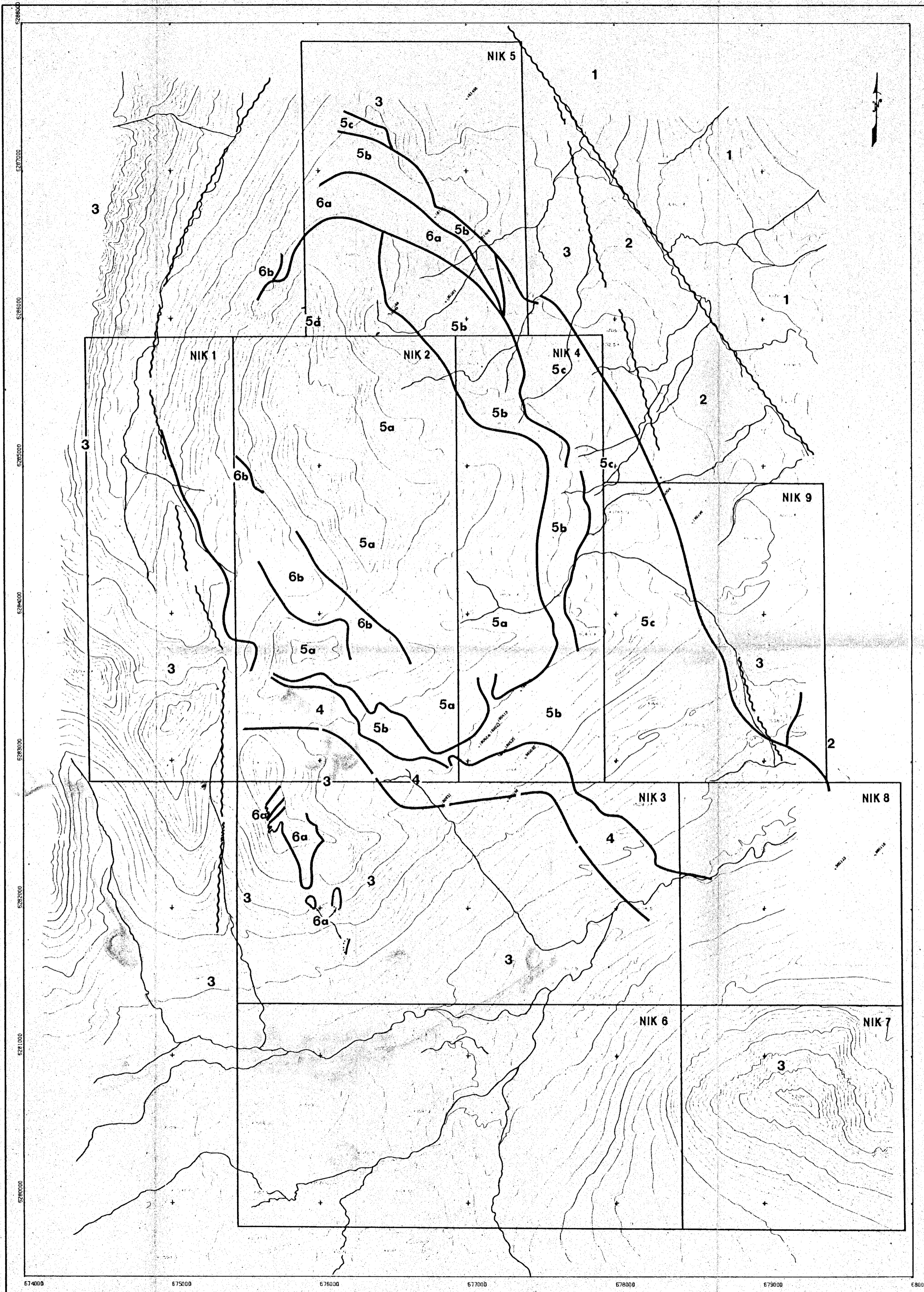
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**BP Minerals Limited**  
 NIK CLAIMS  
 TODJOGONE PROJECT, B.C.  
 LEAD (PPM) IN STREAM SEDIMENT SAMPLES

SPR NO 505-81-5	DATE OCTOBER 1981	PROJECT 505-A	FIG 3B
REPORT NO BPVR 81-10	NTS 940/A	SCALE 1 CM:200 METRES	
TO ACCOMPANY REPORT			

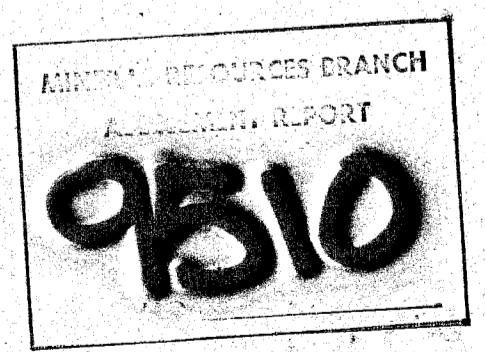




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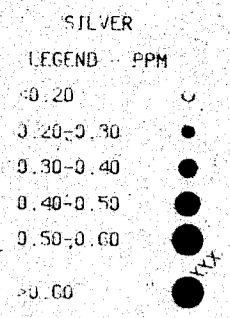
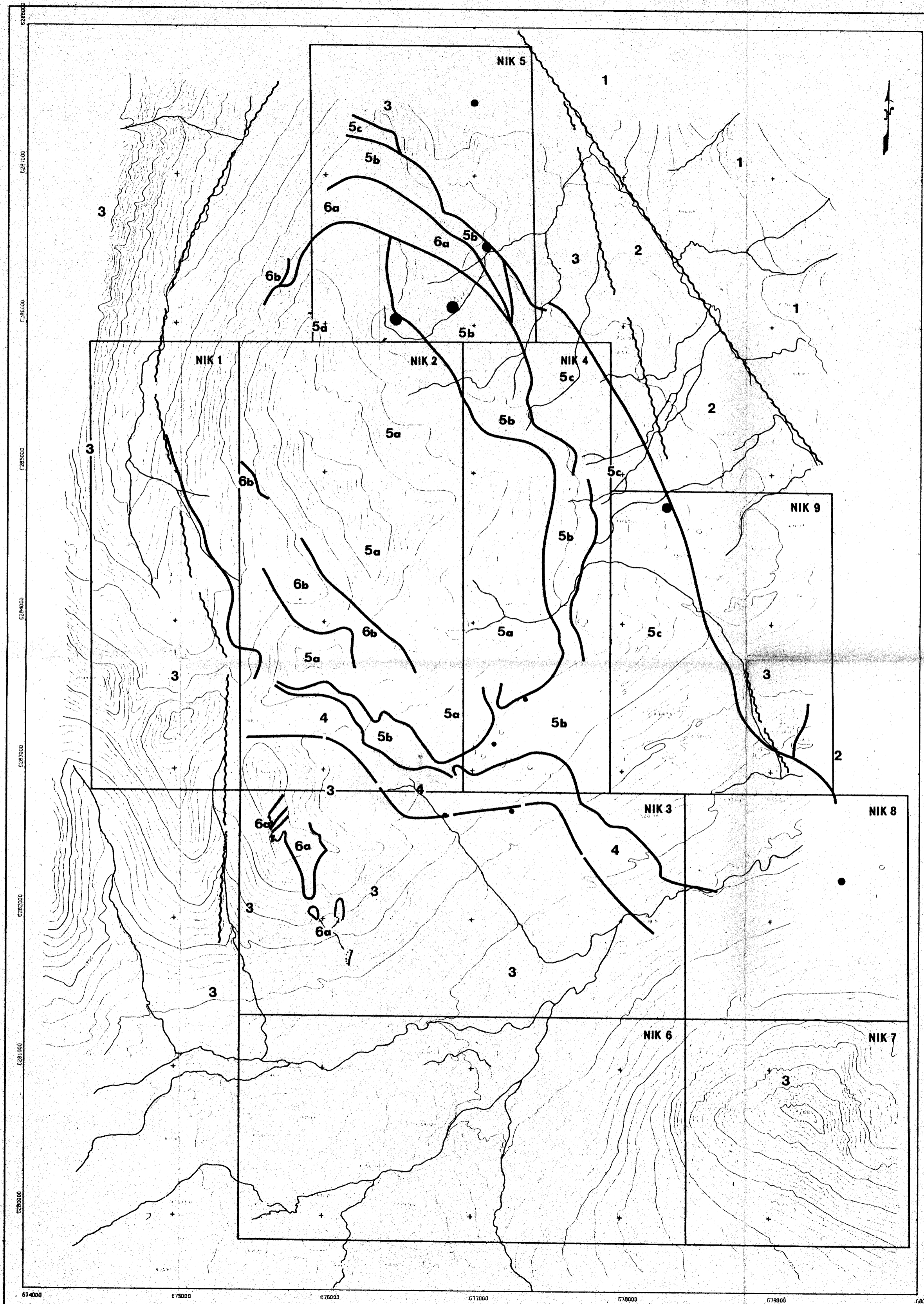
- 6a MONZODIORITE
- 6b QUARTZ DIORITE
- 5a DUNITE
- 5b PERIDOTITE, PYROXENITE
- 5c HORNBLENDITE
- 4 AMPHIBOLITE
- 3 TAKLA VOLCANICS
- 2 LAY RANGE VOLCANICS
- 1 INGENIKA SEDIMENTS

— Contact  
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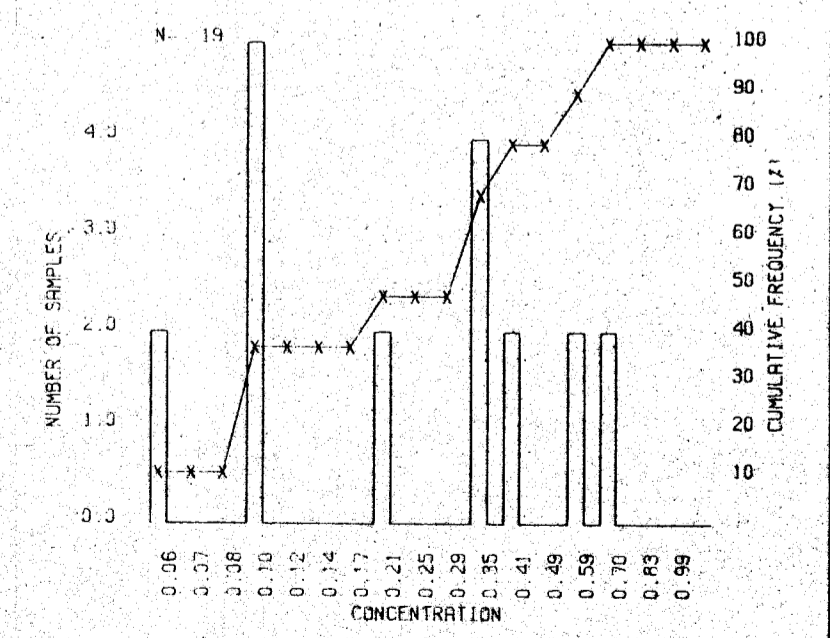
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|----------------------------------|------------------------|
| BP Minerals Limited              |                        |
| NIK CLAIMS                       |                        |
| TODDOGGONE PROJECT, B. C.        |                        |
| STREAM SEDIMENT SAMPLE LOCATIONS |                        |
| DATE: OCTOBER 1981               | PROJECT: 505-A         |
| REPORT NO: NTS 940/9             | SCALE: 1 CM=200 METRES |
| FIG. NO: 3A                      |                        |





- LEGEND**
- 6a** MONZODIORITE
  - 6b** QUARTZ DIORITE
  - 5a** DUNITE
  - 5b** PERIDOTITE, PYROXENITE
  - 5c** HORNBLENDITE
  - 4** AMPHIBOLITE
  - 3** TAKLA VOLCANICS
  - 2** LAY RANGE VOLCANICS
  - 1** INGENIKA SEDIMENTS
- Contact  
- - - Fault

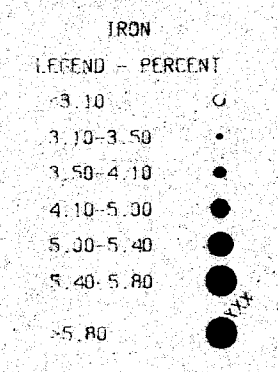
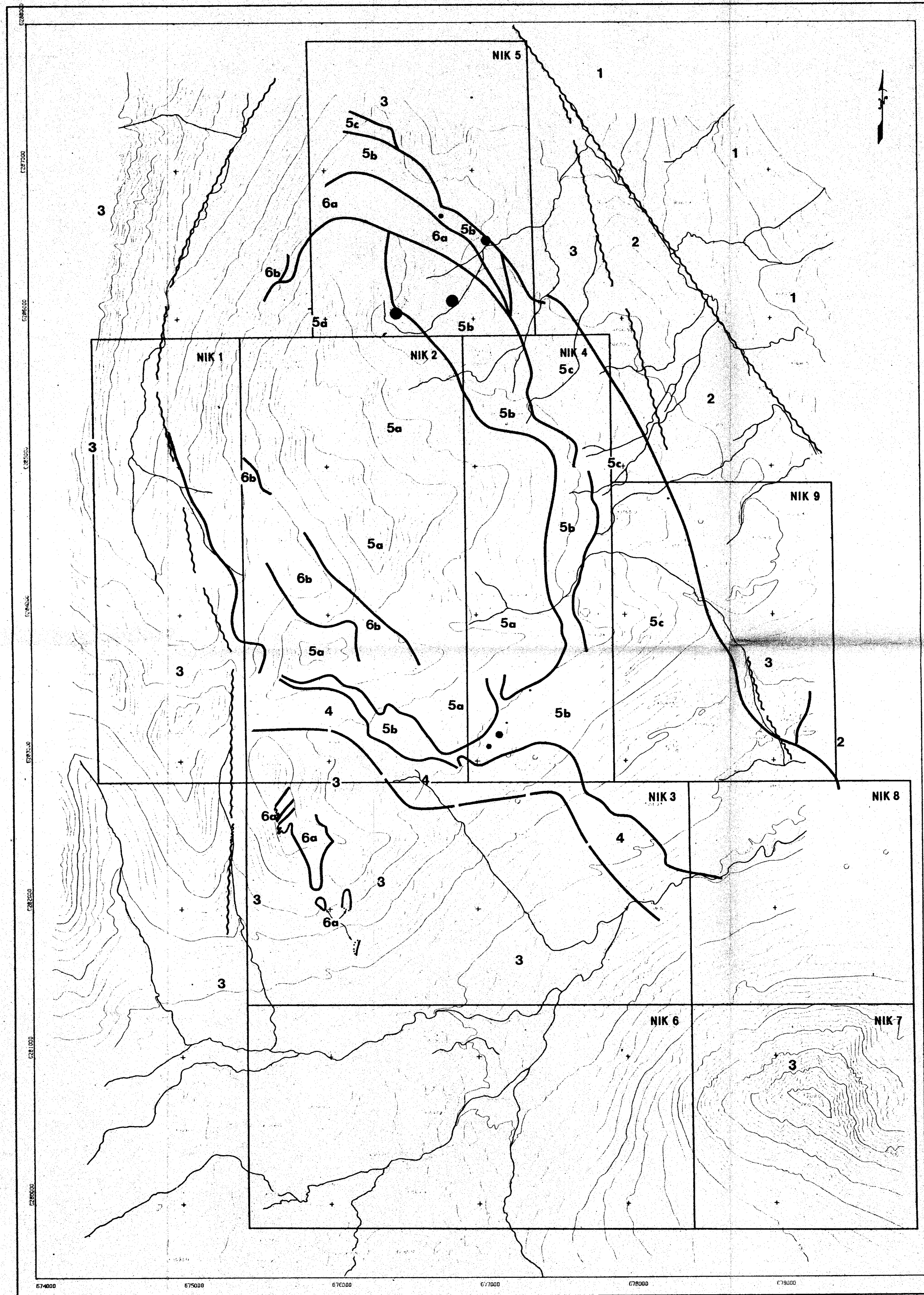
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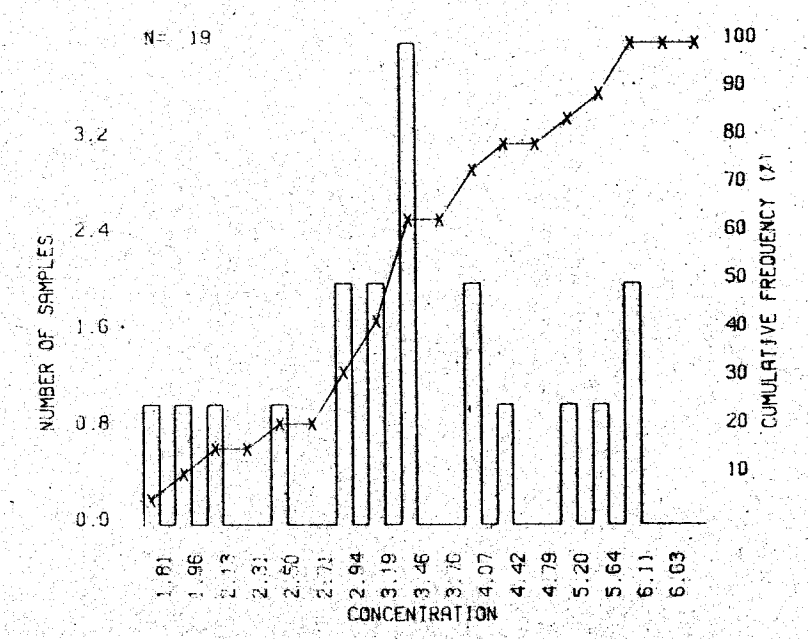
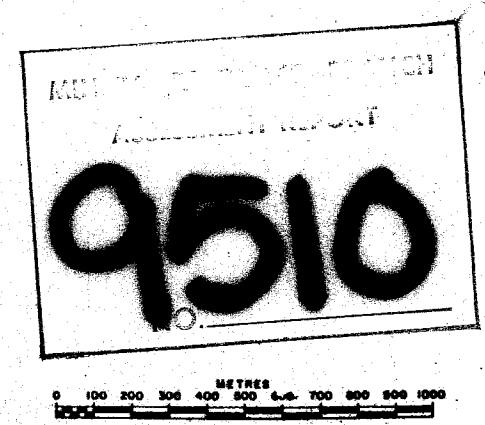
**BP Minerals Limited**  
**NIK CLAIMS**  
 TODDOGONE PROJECT, B.C.  
 SILVER (PPM) IN STREAM SEDIMENT SAMPLES

|                       |                |                          |
|-----------------------|----------------|--------------------------|
| DATE: OCTOBER 1981    | PROJECT: 505-A | FIG. 3F                  |
| REPORT NO: BPVR 81-10 | NTS: 940/9     | SCALE: 1 CM = 200 METRES |

TO ACCOMPANY REPORT



- LEGEND**
- 6a** MONZODIORITE
  - 6b** QUARTZ DIORITE
  - 5a** DUNITE
  - 5b** PERIDOTITE, PYROXENITE
  - 5c** HORNBLENDITE
  - 4** AMPHIBOLITE
  - 3** TAKLA VOLCANICS
  - 2** LAY RANGE VOLCANICS
  - 1** INGENIKA SEDIMENTS
- Contact  
 ~~~~~ Fault

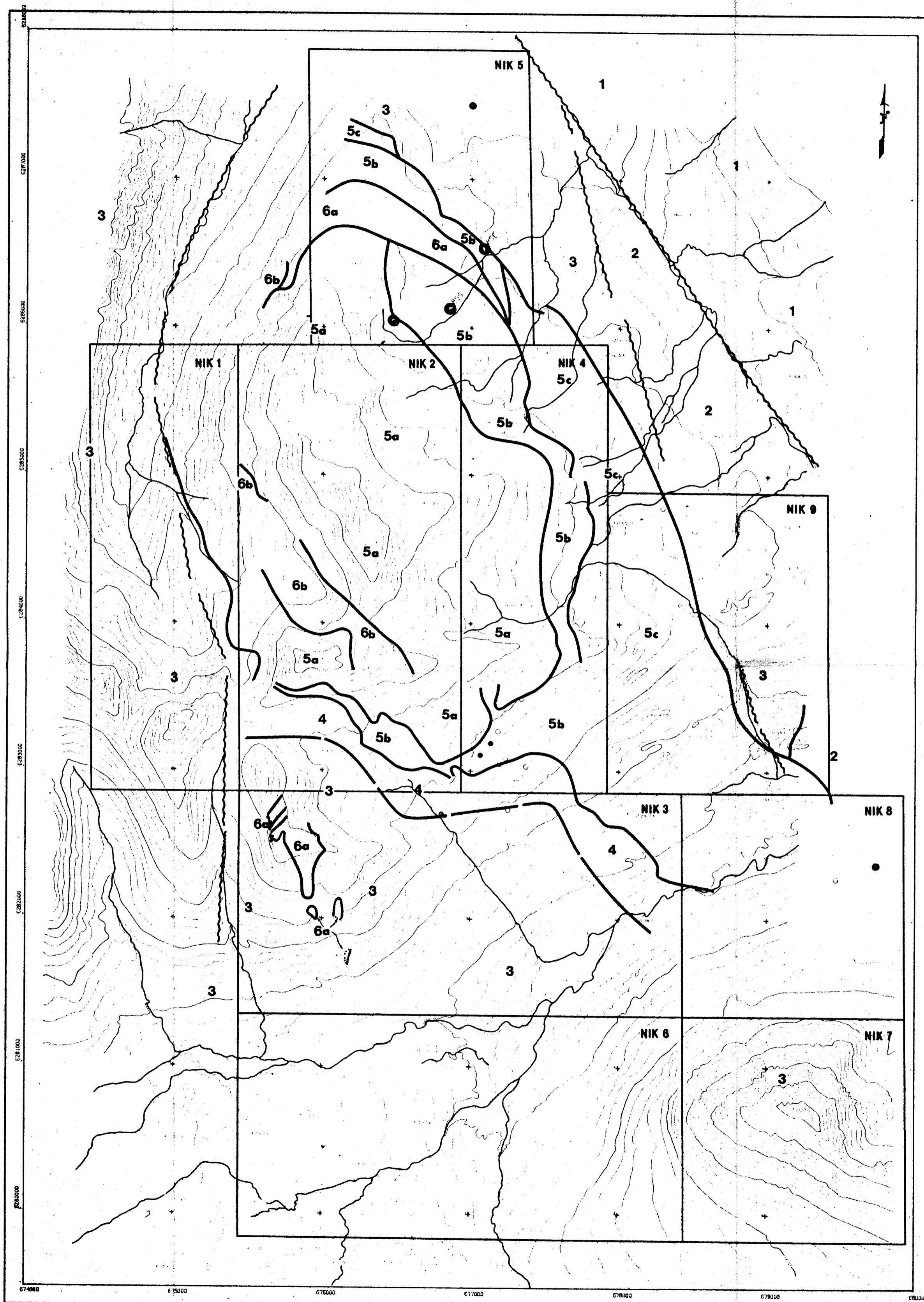


**BP Minerals Limited**  
 NIK CLAIMS  
 TODDGGONE PROJECT, B.C.  
 IRON (PERCENT) IN STREAM SEDIMENT SAMPLES

DATE OCTOBER 1981 PROJECT 505-A  
 REPORT NO. BPVR 81-10  
 TO ACCOMPANY REPORT

FIG 3E



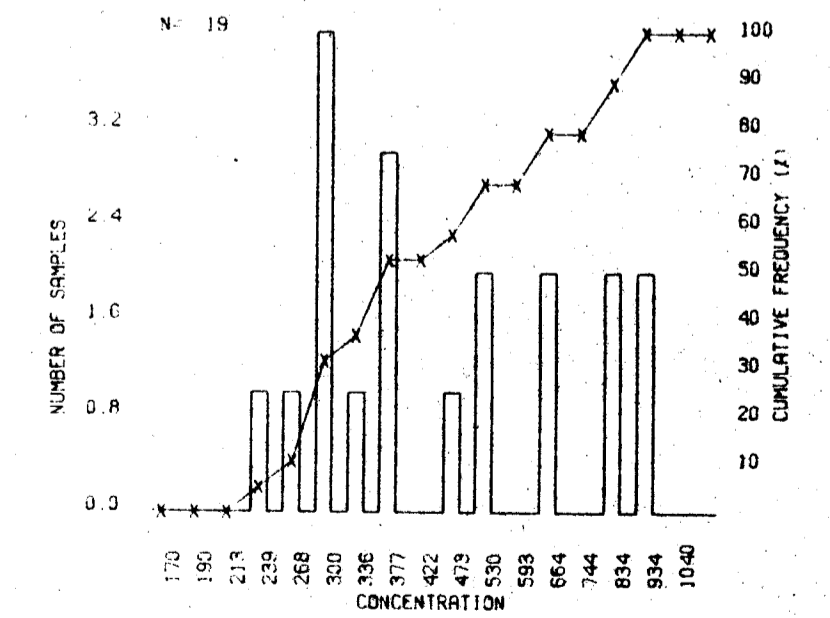
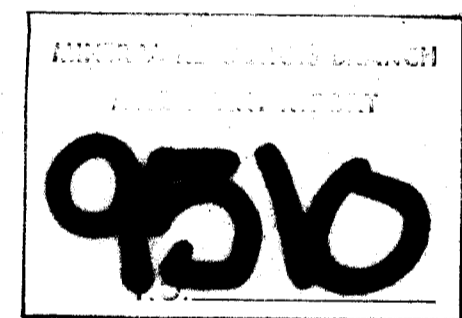


MANGANESE  
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 798-834 ●  
 >834 ●

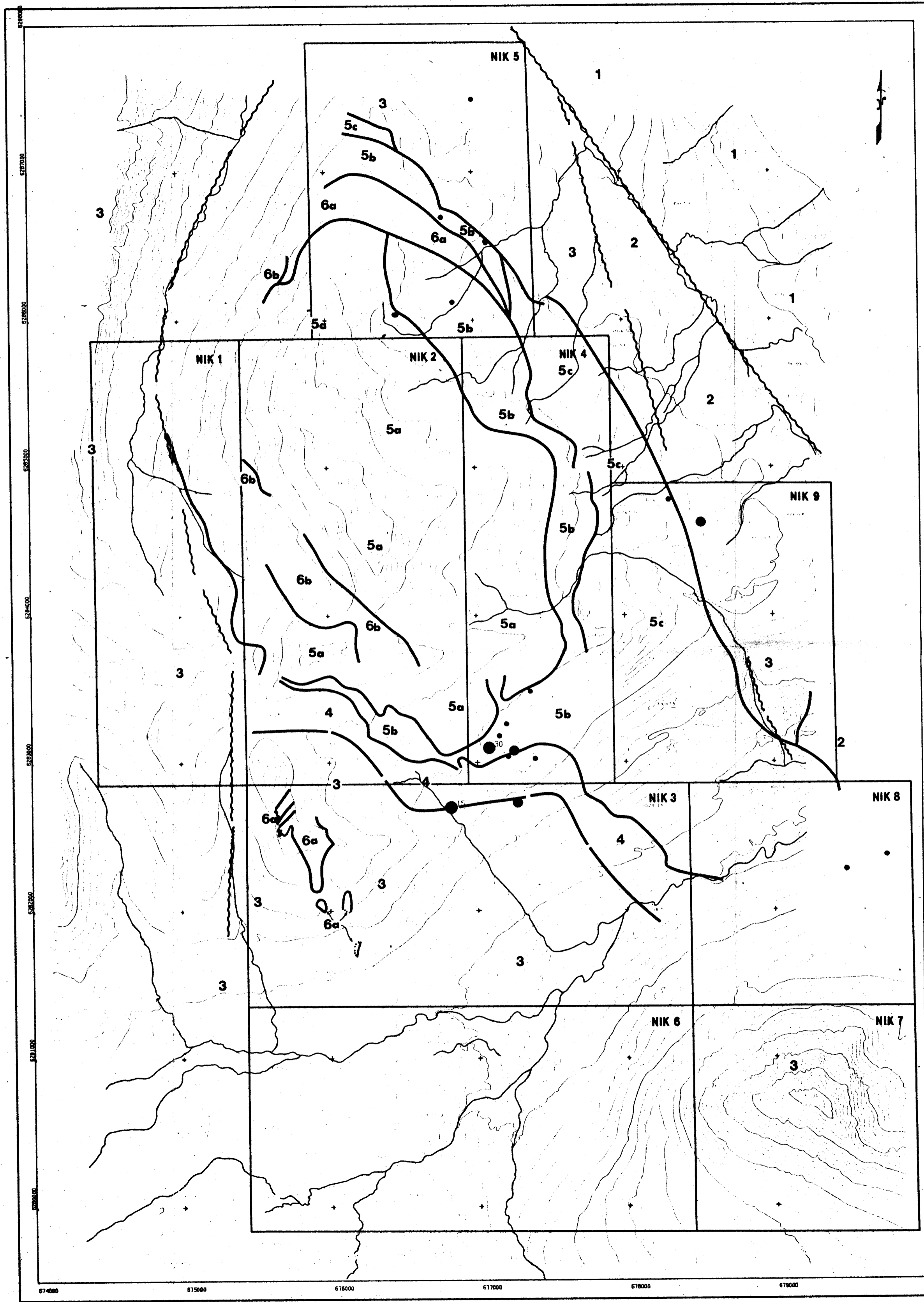
**LEGEND**

- 6a MONZODIORITE
- 6b QUARTZ DIORITE
- 5a DUNITE
- 5b PERIDOTITE, PYROXENITE
- 5c HORNBLENDITE
- 4 AMPHIBOLITE
- 3 TAKLA VOLCANICS
- 2 LAY RANGE VOLCANICS
- 1 INGENIKA SEDIMENTS

— Contact  
 - - - Fault

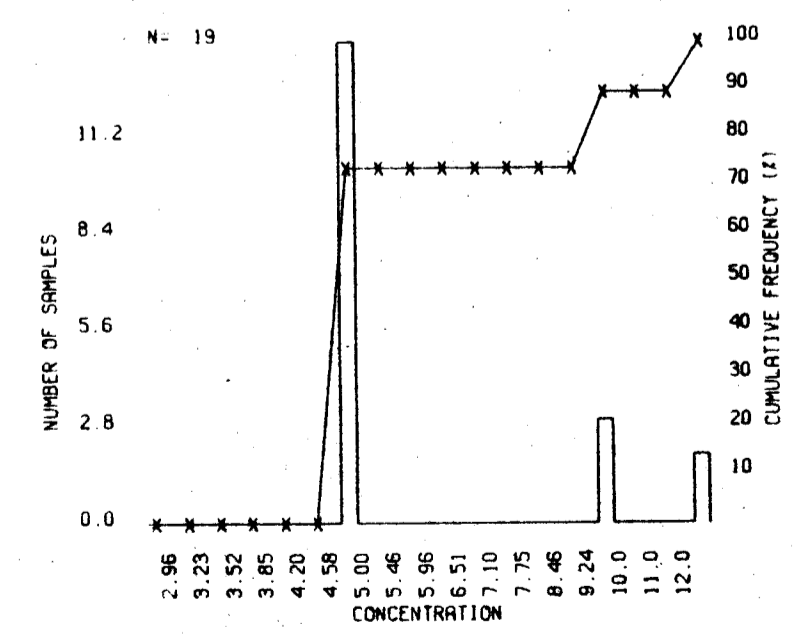
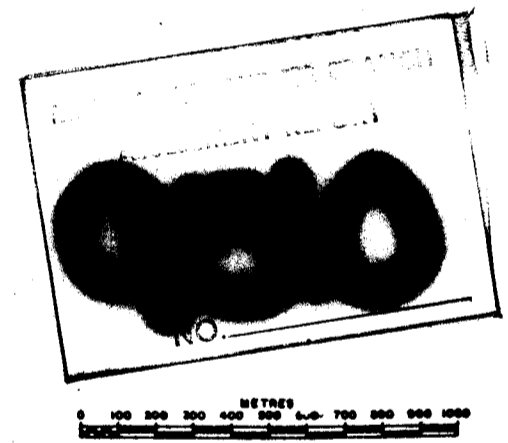


|  |                      |                          |           |
|--|----------------------|--------------------------|-----------|
| <b>BP Minerals Limited</b>                 |                      |                          |           |
| <b>NIK CLAIMS</b>                          |                      |                          |           |
| TOODOGGINE PROJECT, B.C.                   |                      |                          |           |
| MANGANESE (PPM) IN STREAM SEDIMENT SAMPLES |                      |                          |           |
| Project<br>505-81-8                        | DATE<br>OCTOBER 1981 | PROJECT<br>505-A         | <b>30</b> |
| Report No.<br>505-81-10                    | NTS<br>940/9         | SCALE<br>1 CM=200 METRES |           |
| Type<br>ANNUAL REPORT                      |                      |                          |           |



GOLD  
 LEGEND - PPB  
 <2.00 ○  
 2.00-7.00 ●  
 7.00-12.0 ●  
 >12.0 ●  
 XXX

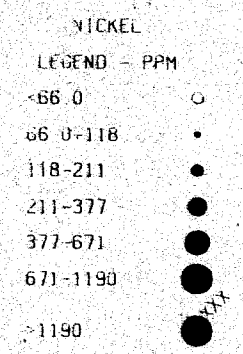
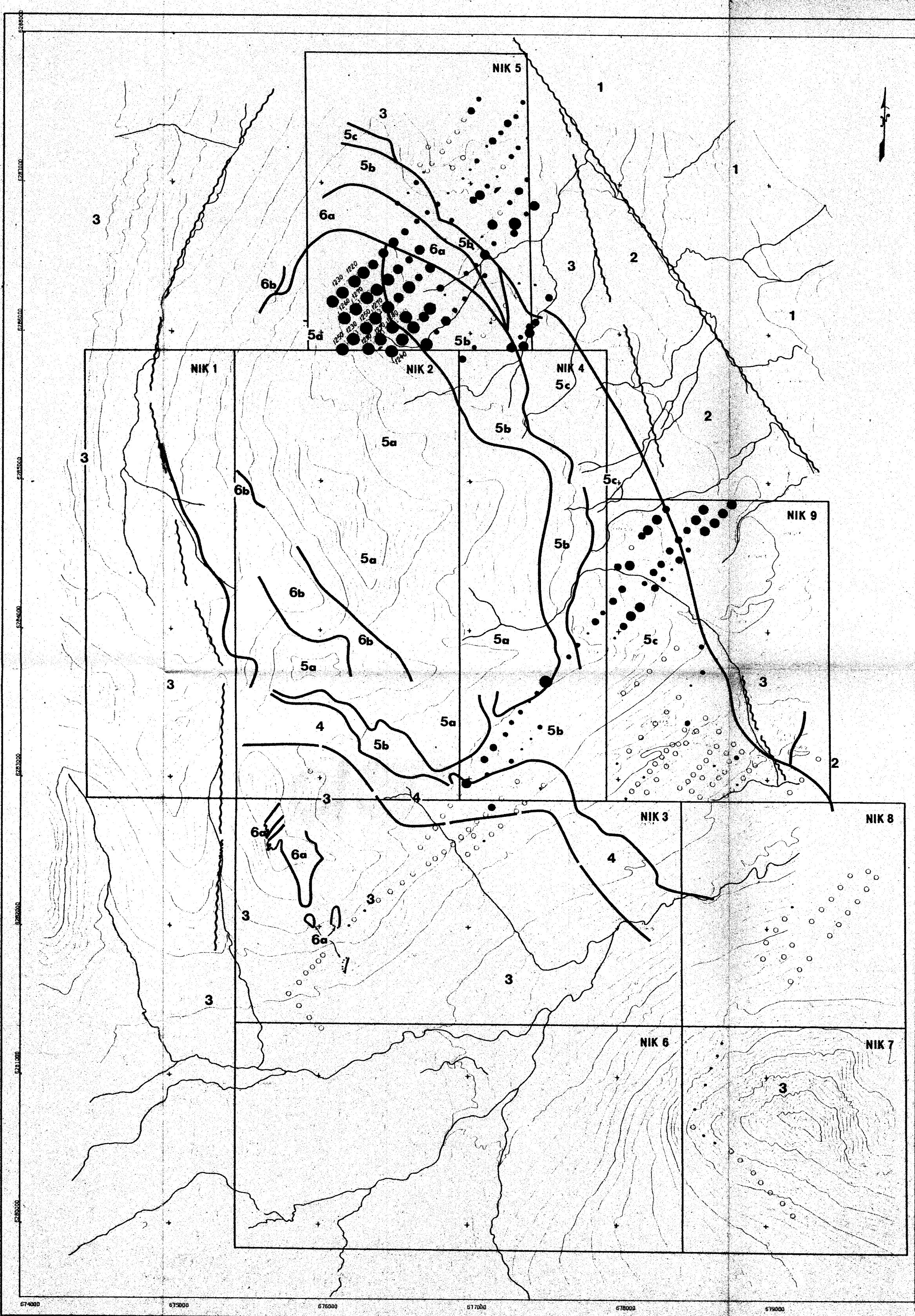
- LEGEND**
- 6a MONZODIORITE
  - 6b QUARTZ DIORITE
  - 5a DUNITE
  - 5b PERIDOTITE, PYROXENITE
  - 5c HORNBLENDITE
  - 4 AMPHIBOLITE
  - 3 TAKLA VOLCANICS
  - 2 LAY RANGE VOLCANICS
  - 1 INGENIKA SEDIMENTS
- Contact  
 ~~~~~ Fault



BP Minerals Limited  
 NIK CLAIMS  
 TODDODGONE PROJECT, B.C.  
 GOLD (PPB) IN STREAM SEDIMENTS

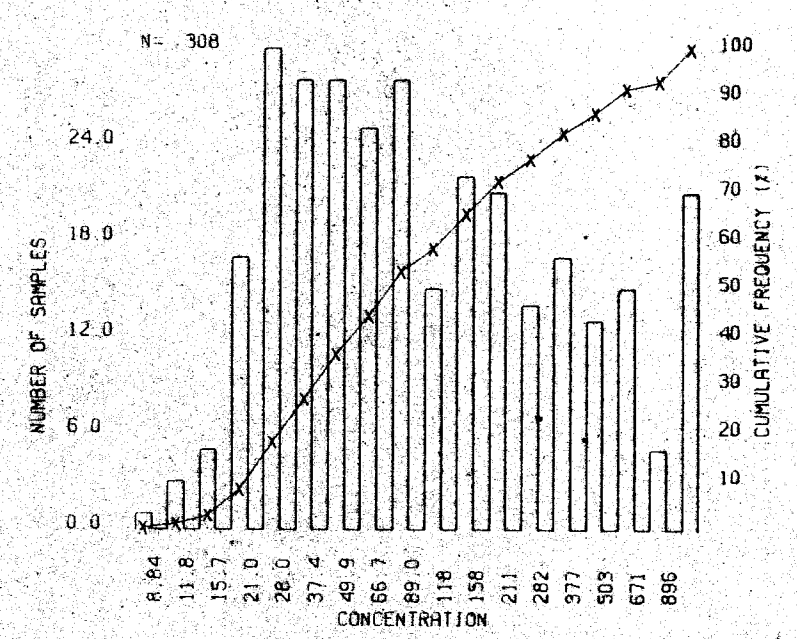
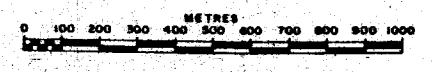
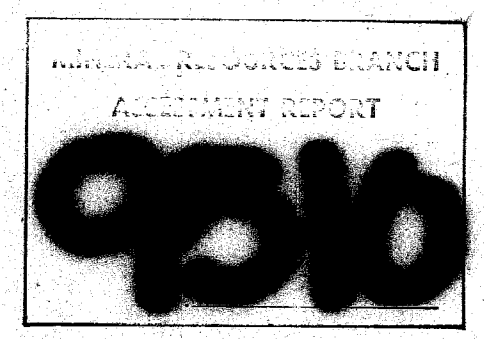
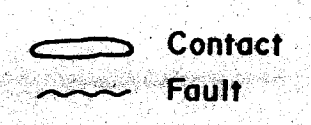
|                     |                   |                       |        |
|---------------------|-------------------|-----------------------|--------|
| FILE NO. 505-01-8   | DATE OCTOBER 1981 | PROJECT 505-A         | FIG 3G |
| REPORT NO. 81-10    | NTS 940/9         | SCALE 1 CM=200 METRES |        |
| TO ACCOMPANY REPORT |                   |                       |        |





**LEGEND**

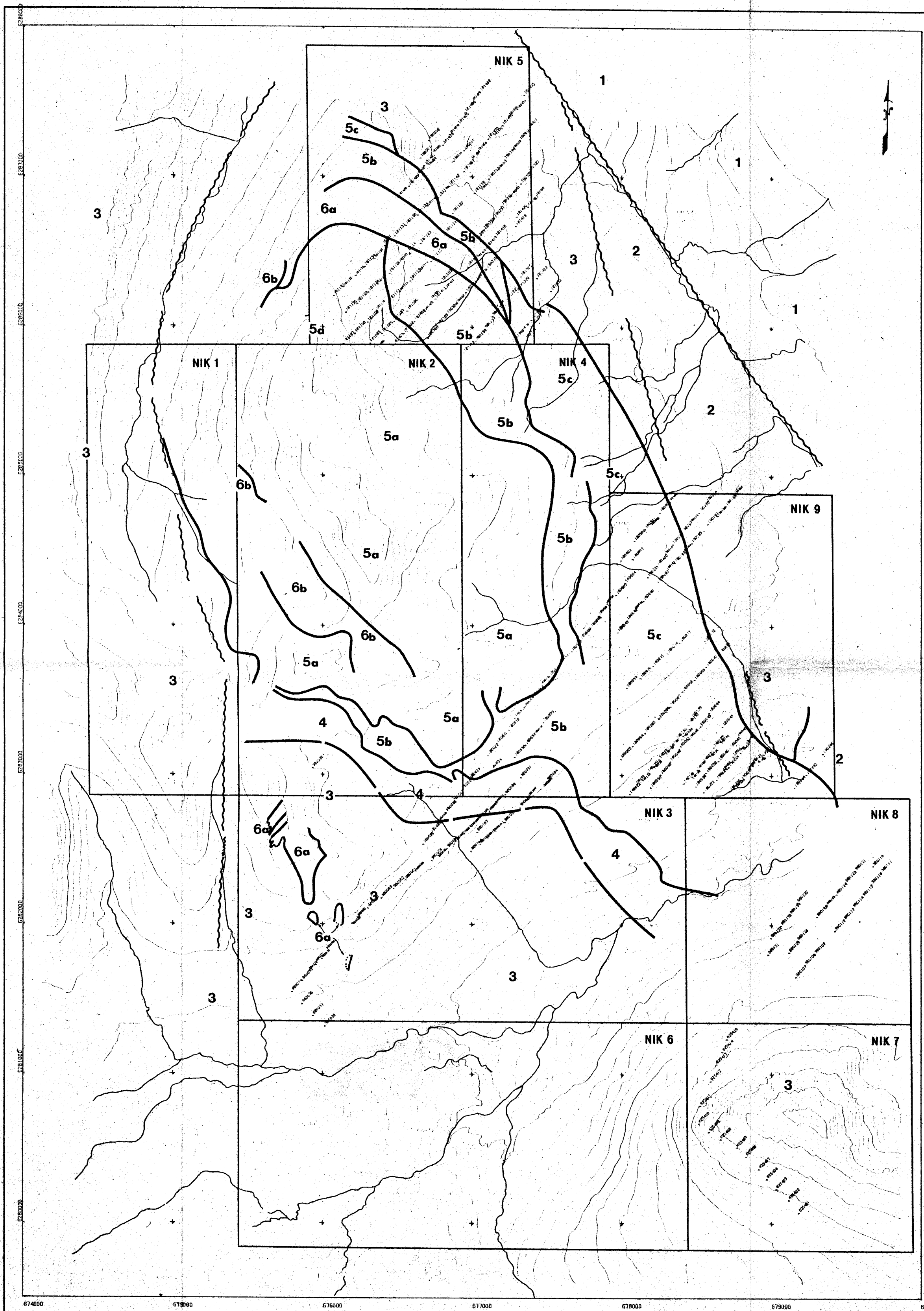
- 6a** MONZODIORITE
- 6b** QUARTZ DIORITE
- 5a** DUNITE
- 5b** PERIDOTITE, PYROXENITE
- 5c** HORNBLENDITE
- 4** AMPHIBOLITE
- 3** TAKLA VOLCANICS
- 2** LAY RANGE VOLCANICS
- 1** INGENIKA SEDIMENTS



**BP Minerals Limited**

NIK CLAIMS  
TOODOGGONE PROJECT, B.C.  
NICKEL (PPM) IN SOIL SAMPLES

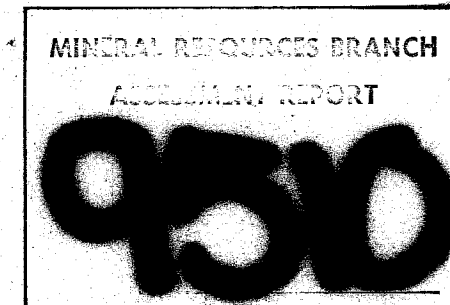
|                      |                        |         |
|----------------------|------------------------|---------|
| DATE: OCTOBER 1981   | PROJECT: 505-A         | FIG. 4C |
| REPORT NO: NTS 940/9 | SCALE: 1 CM=200 METRES |         |



**LEGEND**

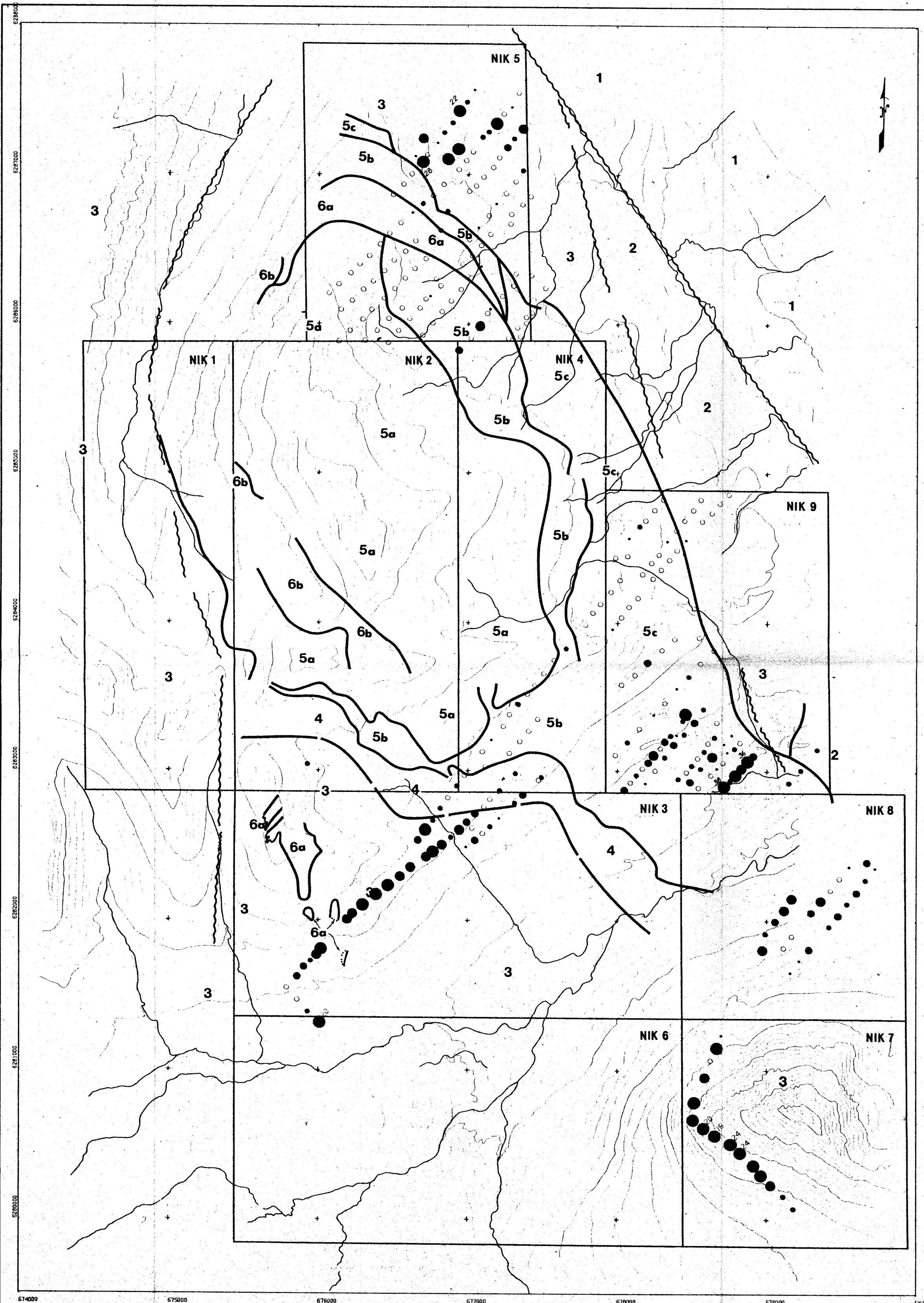
- 6a** MONZODIORITE
- 6b** QUARTZ DIORITE
- 5a** DUNITE
- 5b** PERIDOTITE, PYROXENITE
- 5c** HORNBLENDITE
- 4** AMPHIBOLITE
- 3** TAKLA VOLCANICS
- 2** LAY RANGE VOLCANICS
- 1** INGENIKA SEDIMENTS

- Contact
- Fault



|                                      |                      |                          |
|--------------------------------------|----------------------|--------------------------|
| BP Minerals Limited                  |                      |                          |
| NIK CLAIMS                           |                      |                          |
| TODDGGONE PROJECT, B.C.              |                      |                          |
| SOIL AND TALUS FINE SAMPLE LOCATIONS |                      |                          |
| Dwg. No.<br>505-01-5                 | DATE<br>OCTOBER 1981 | PROJECT<br>505-A         |
| Report No.<br>BPWR 81-10             | NTS<br>940/9         | SCALE<br>1 CM=200 METRES |
| TO ACCOMPANY REPORT:                 |                      | FIG. 4A                  |





LEAD  
LEGEND - PPM

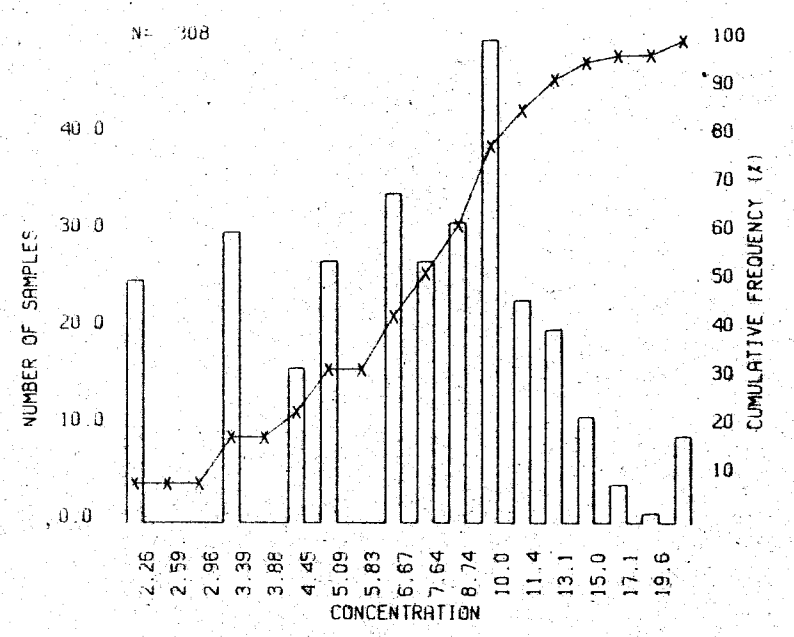
|           |   |
|-----------|---|
| <7.00     | ○ |
| 7.00-8.00 | ● |
| 8.00-10.0 | ● |
| 10.0-11.0 | ● |
| 11.0-13.0 | ● |
| 13.0-18.0 | ● |
| >18.0     | ● |

**LEGEND**

|    |                        |
|----|------------------------|
| 6a | MONZODIORITE           |
| 6b | QUARTZ DIORITE         |
| 5a | DUNITE                 |
| 5b | PERIDOTITE, PYROXENITE |
| 5c | HORNBLENDITE           |
| 4  | AMPHIBOLITE            |
| 3  | TAKLA VOLCANICS        |
| 2  | LAY RANGE VOLCANICS    |
| 1  | INGENIKA SEDIMENTS     |

— Contact  
- - - Fault

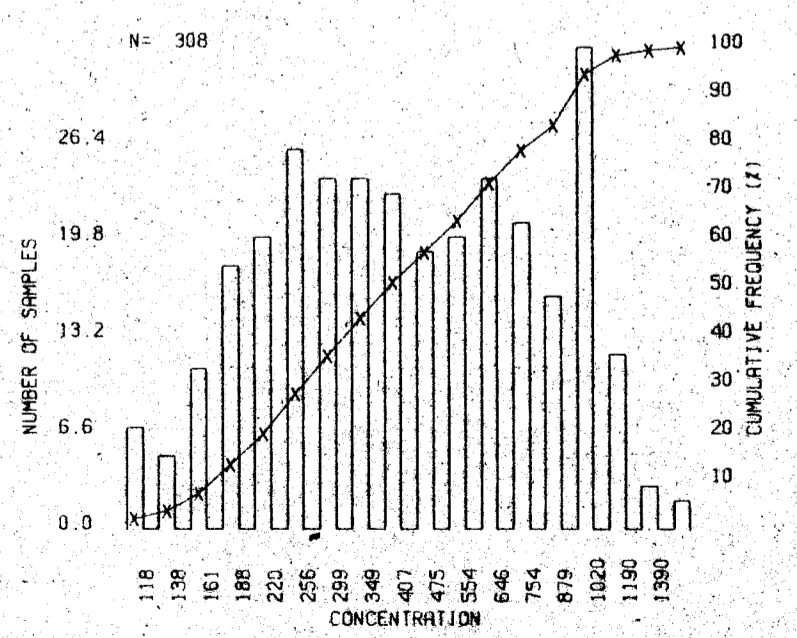
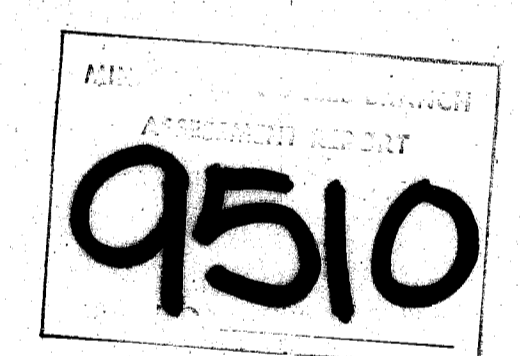
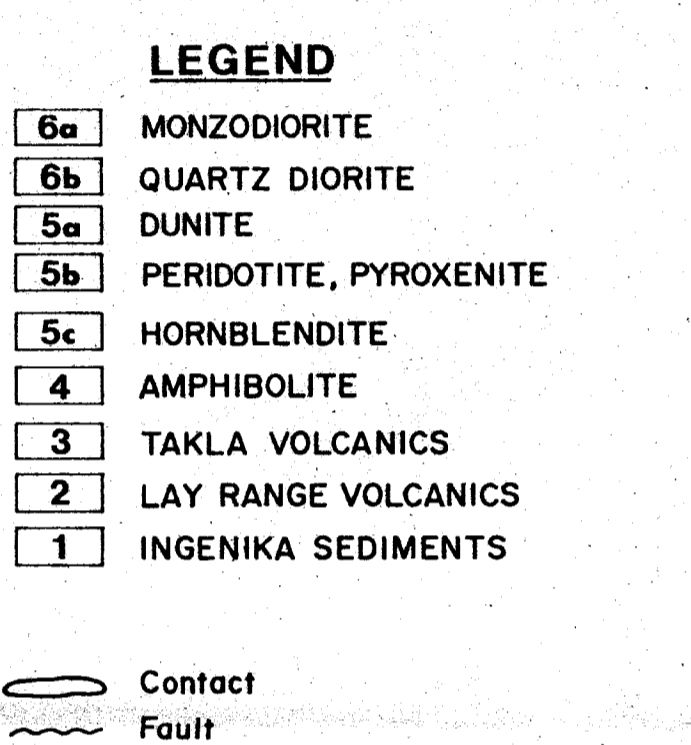
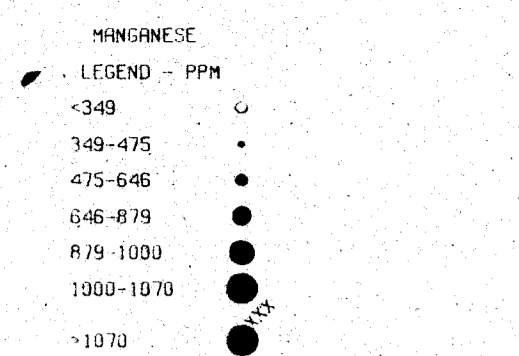
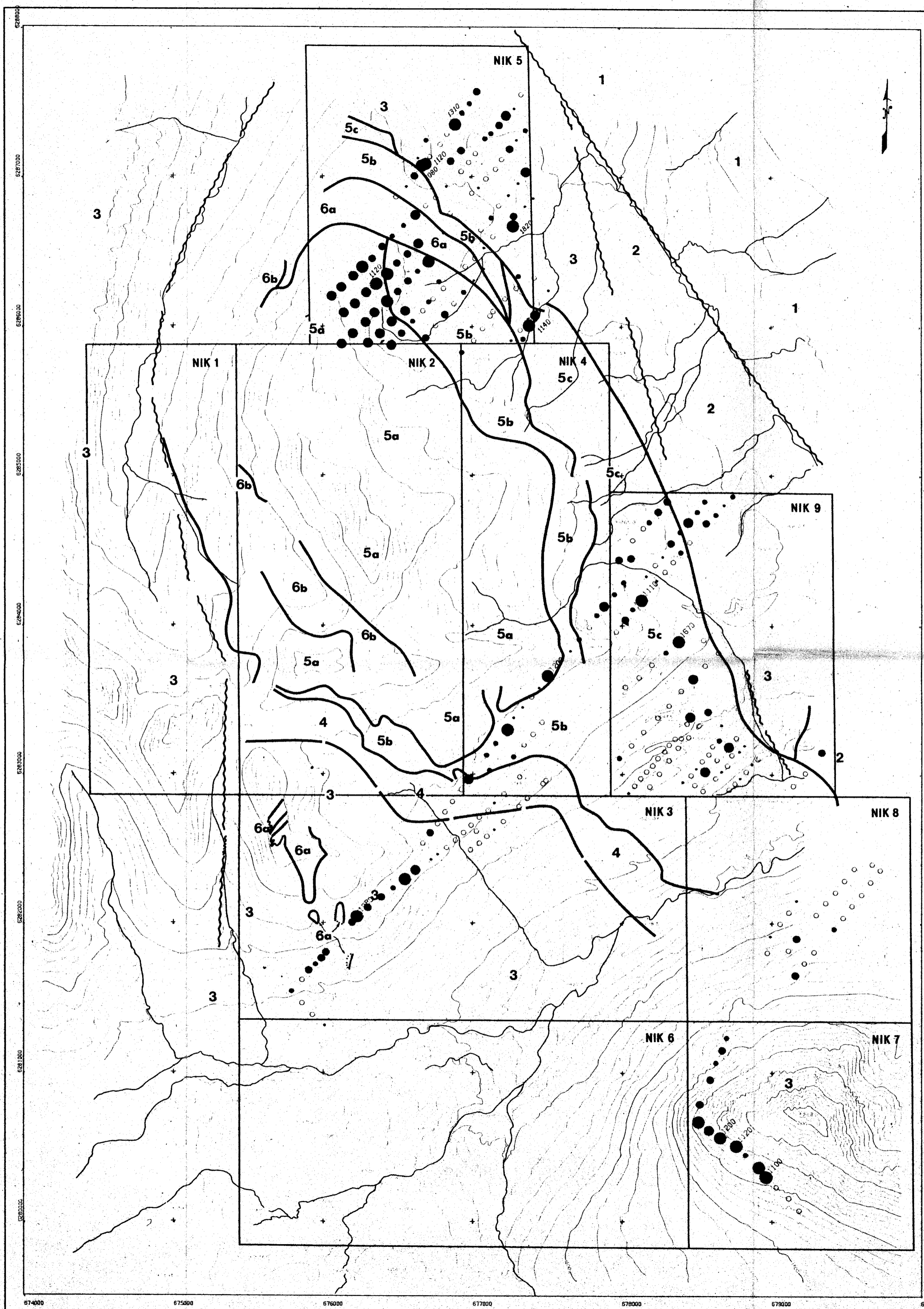
MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**9510**



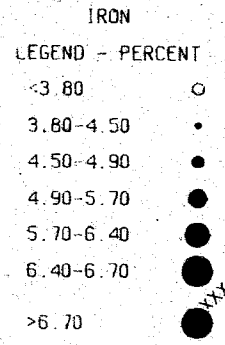
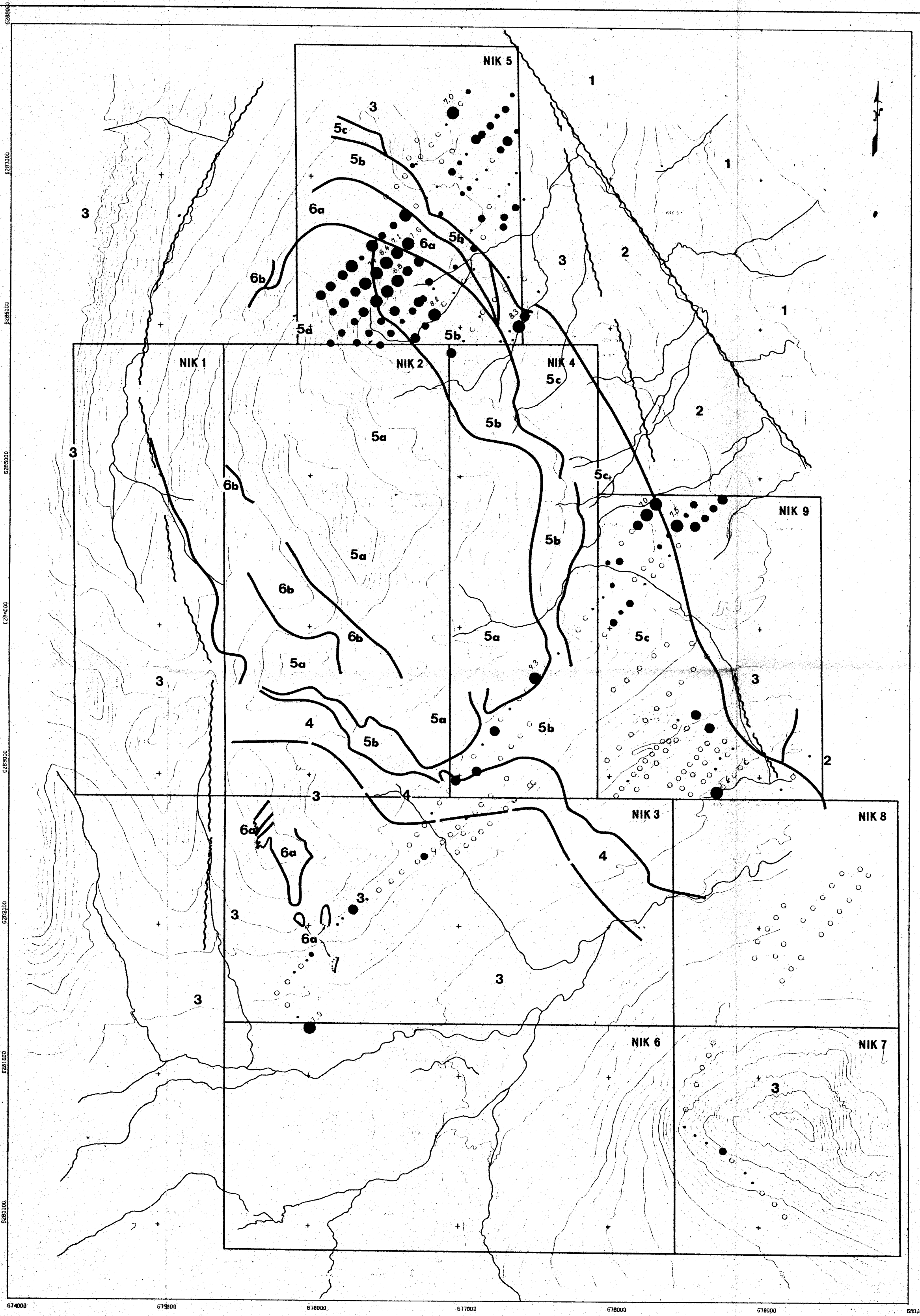
**BP Minerals Limited**  
NIK CLAIMS  
TOODOGGONE PROJECT, B.C.  
LEAD (PPM) IN SOIL SAMPLES

|                       |                   |                       |         |
|-----------------------|-------------------|-----------------------|---------|
| DWG NO. 505-81-5      | DATE OCTOBER 1981 | PROJECT 505-A         | FIG. 4B |
| REPORT NO. BPVR 81-10 | NTS 940/9         | SCALE 1 CM=200 METRES |         |

TO ACCOMPANY REPORT



|                                 |              |         |                 |
|---------------------------------|--------------|---------|-----------------|
| <b>BP Minerals Limited</b>      |              |         |                 |
| NIK CLAIMS                      |              |         |                 |
| TOODOOGONE PROJECT, B.C.        |              |         |                 |
| MANGANESE (PPM) IN SOIL SAMPLES |              |         |                 |
| DATE                            | OCTOBER 1981 | PROJECT | 505-A           |
| REPORT NO.                      | NTS 940/9    | SCALE   | 1 CM=200 METRES |
| FIG. NO.                        | 40           |         |                 |

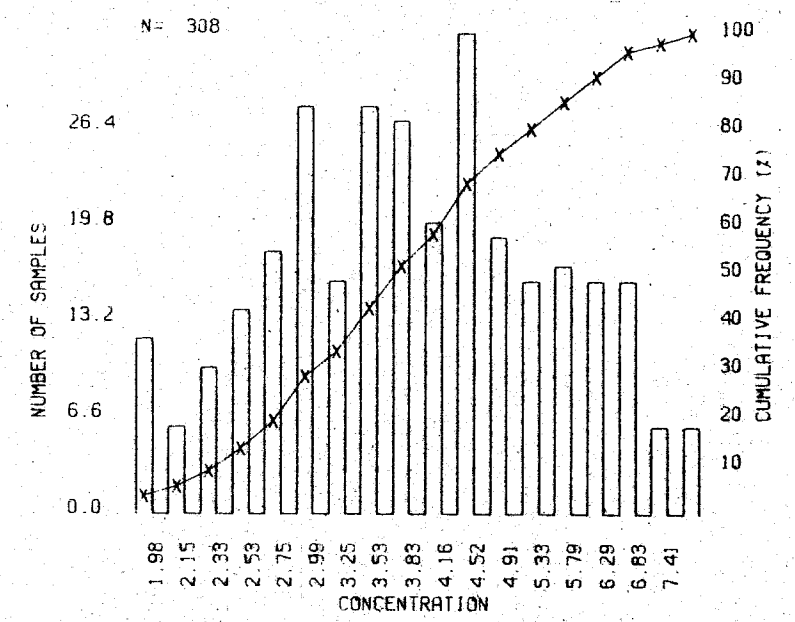


**LEGEND**

- 6a** MONZODIORITE
  - 6b** QUARTZ DIORITE
  - 5a** DUNITE
  - 5b** PERIDOTITE, PYROXENITE
  - 5c** HORNBLENDITE
  - 4** AMPHIBOLITE
  - 3** TAKLA VOLCANICS
  - 2** LAY RANGE VOLCANICS
  - 1** INGENIKA SEDIMENTS
- Contact  
 ~~~~~ Fault

MINERAL RESEARCH GROUP  
ASSESSMENT REPORT

# 9510

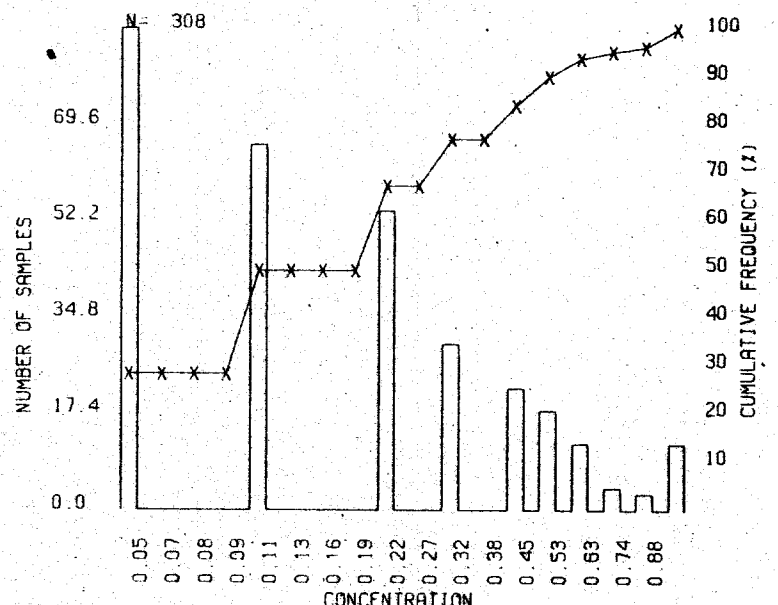
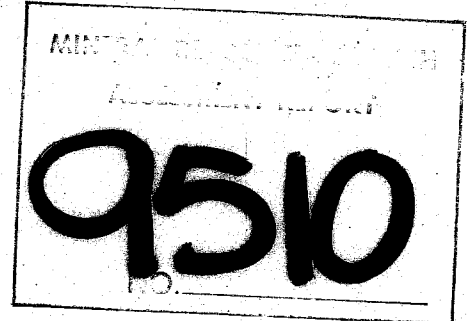
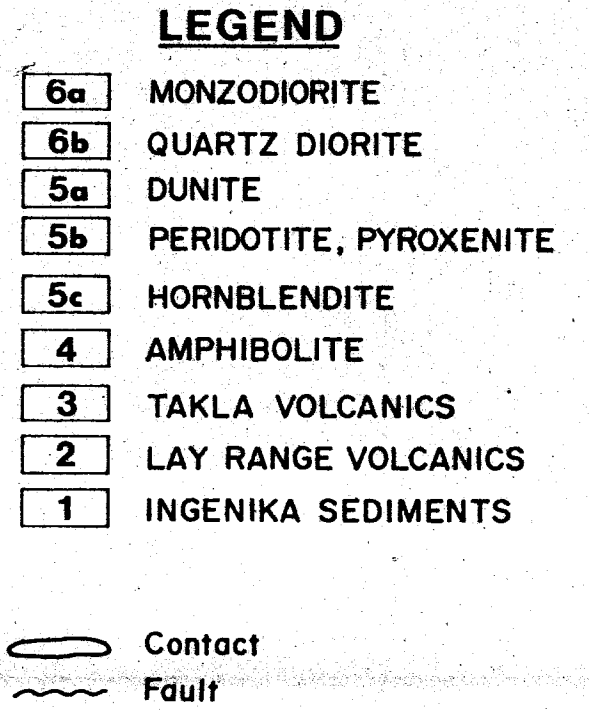
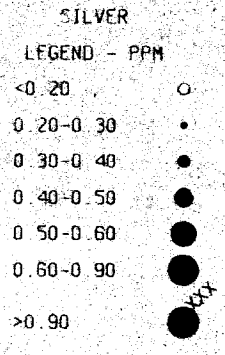
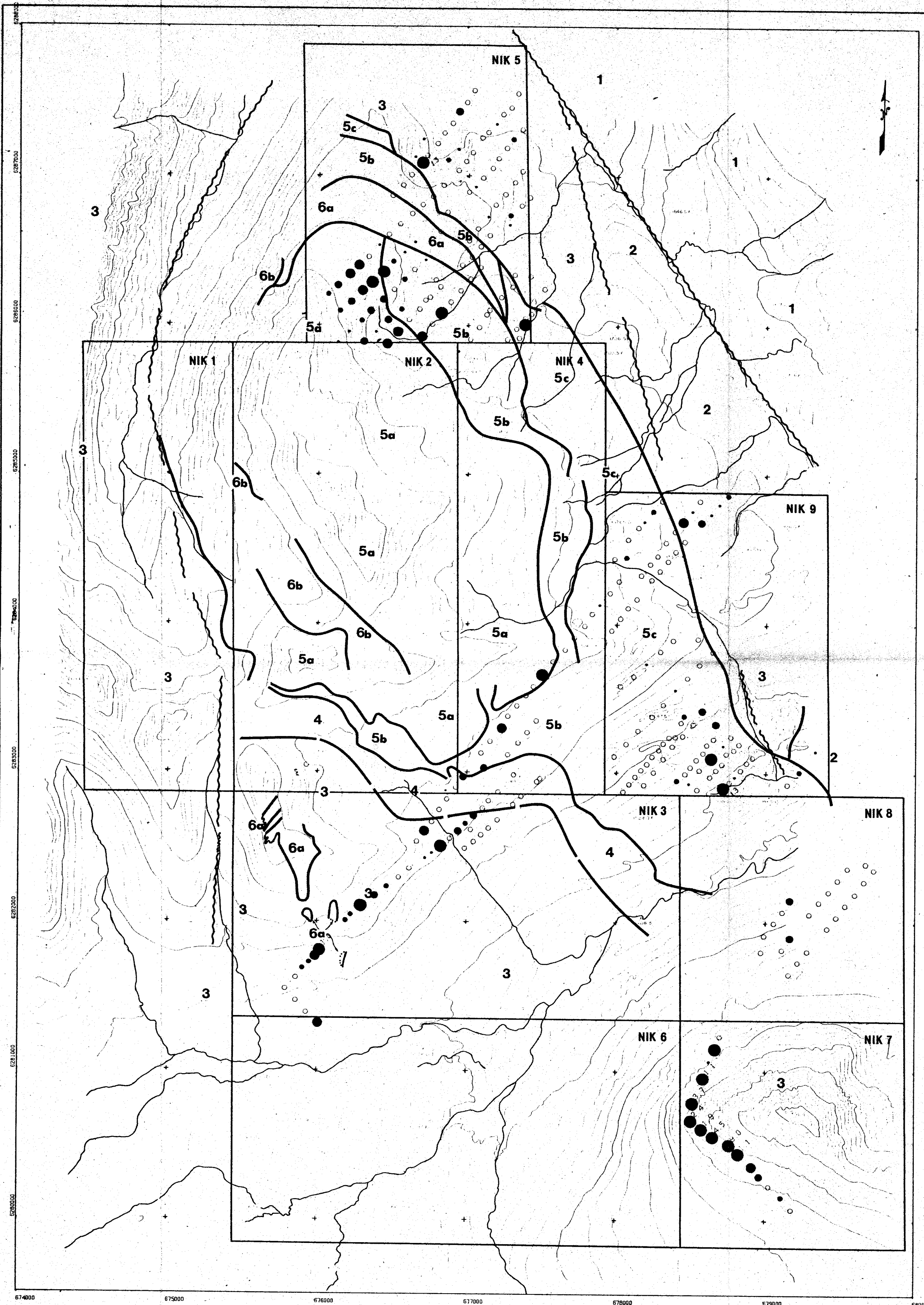


**BP Minerals Limited**

NIK CLAIMS  
TODDGGONE PROJECT, B.C.  
IRON (PERCENT) IN SOIL SAMPLES

|                       |                                  |               |         |
|-----------------------|----------------------------------|---------------|---------|
| DWG. NO. 805-81-5     | DATE OCTOBER 1981                | PROJECT 505-A | FIG. 4E |
| REPORT NO. BPVR 81-10 | NTS 940/9" SCALE 1 CM=200 METRES |               |         |
| TO ACCOMPANY REPORT   |                                  |               |         |

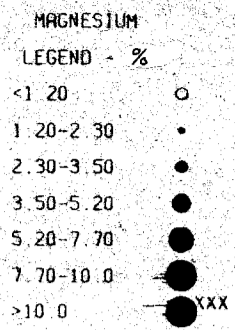
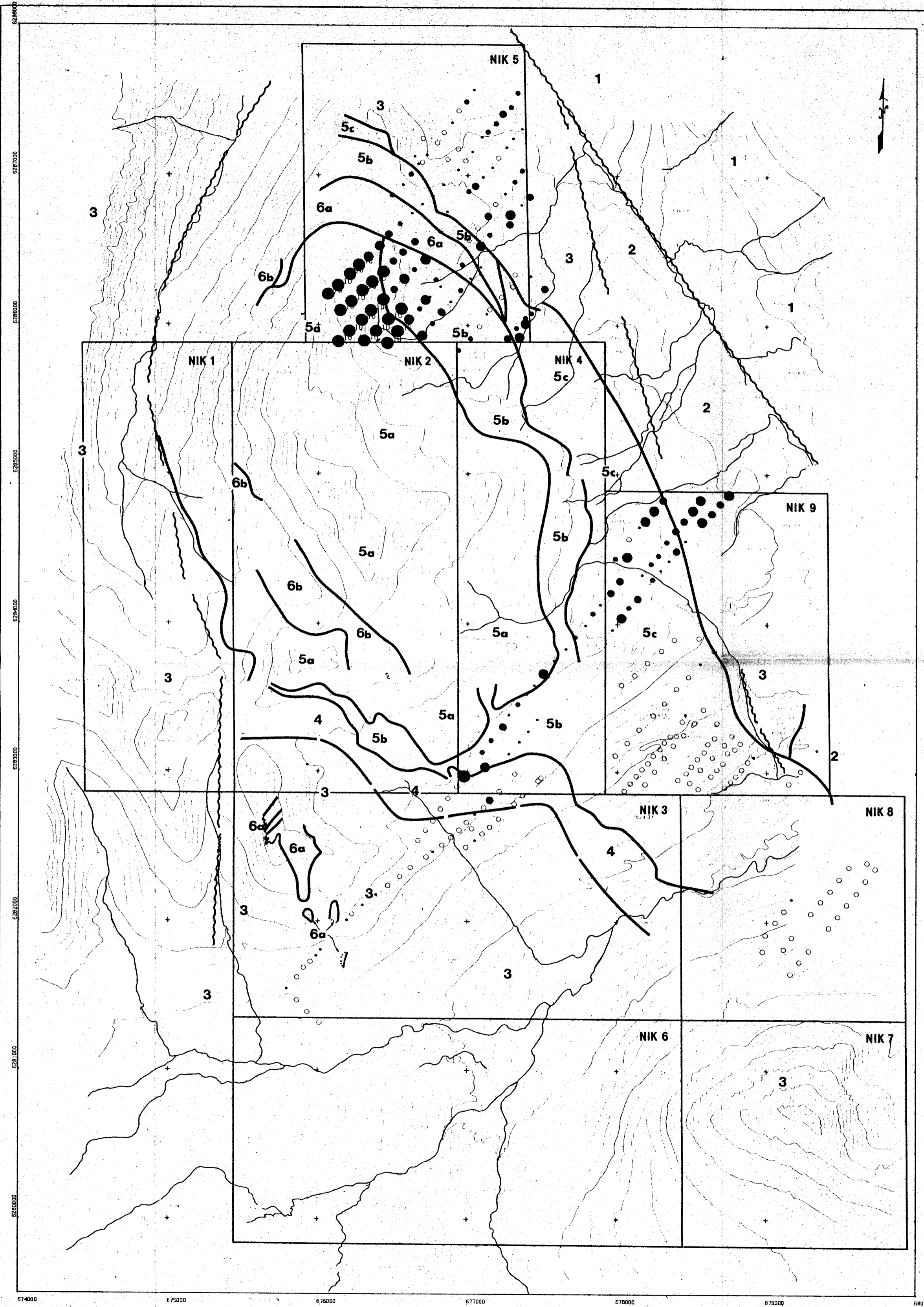




**BP Minerals Limited**  
**NIK CLAIMS**  
 TODDGGONE PROJECT, B.C.  
 SILVER (PPM) IN SOIL SAMPLES

|                         |                                 |                  |         |
|-------------------------|---------------------------------|------------------|---------|
| DWG NO<br>505-01-5      | DATE<br>OCTOBER 1981            | PROJECT<br>505-A | FIG. 4F |
| REPORT NO<br>BPVR 81-10 | NTS 940/9 SCALE 1 CM=200 METRES |                  |         |
| TO ACCOMPANY REPORT     |                                 |                  |         |

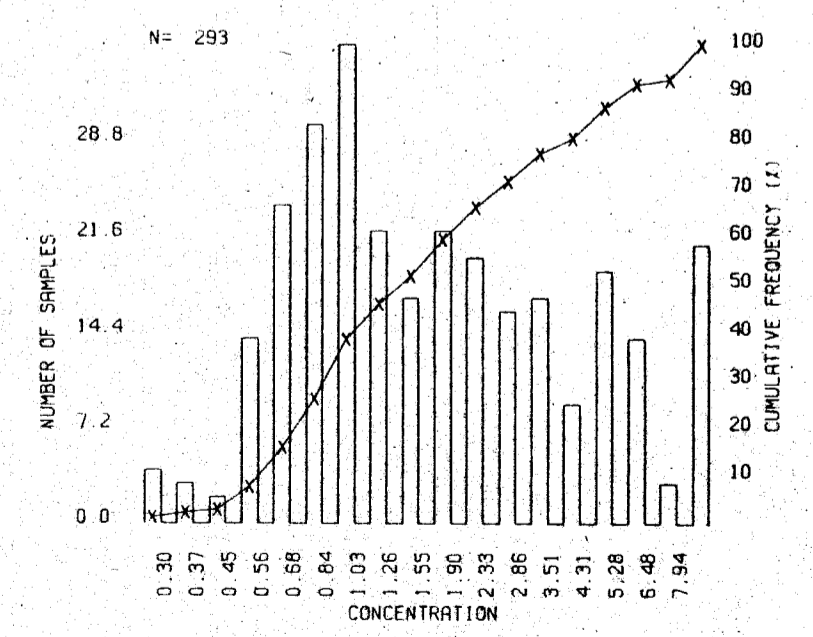
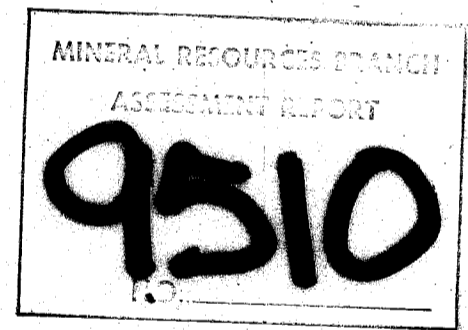




**LEGEND**

- 6a** MONZODIORITE
- 6b** QUARTZ DIORITE
- 5a** DUNITE
- 5b** PERIDOTITE, PYROXENITE
- 5c** HORNBLENDITE
- 4** AMPHIBOLITE
- 3** TAKLA VOLCANICS
- 2** LAY RANGE VOLCANICS
- 1** INGENIKA SEDIMENTS

- Contact
- Fault

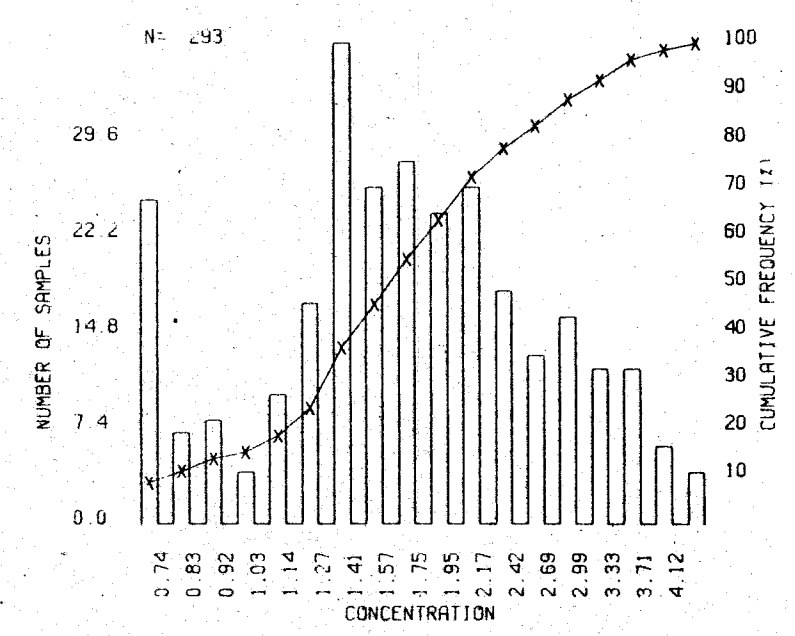
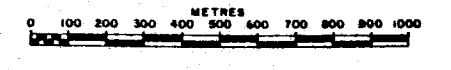
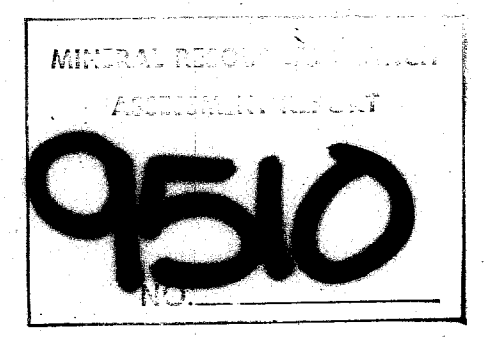
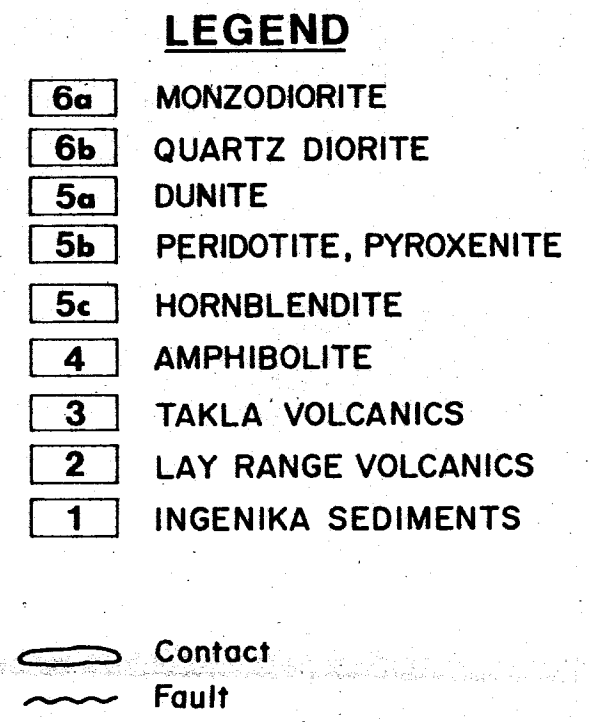
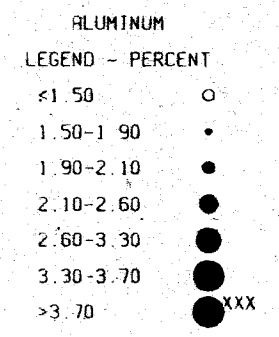
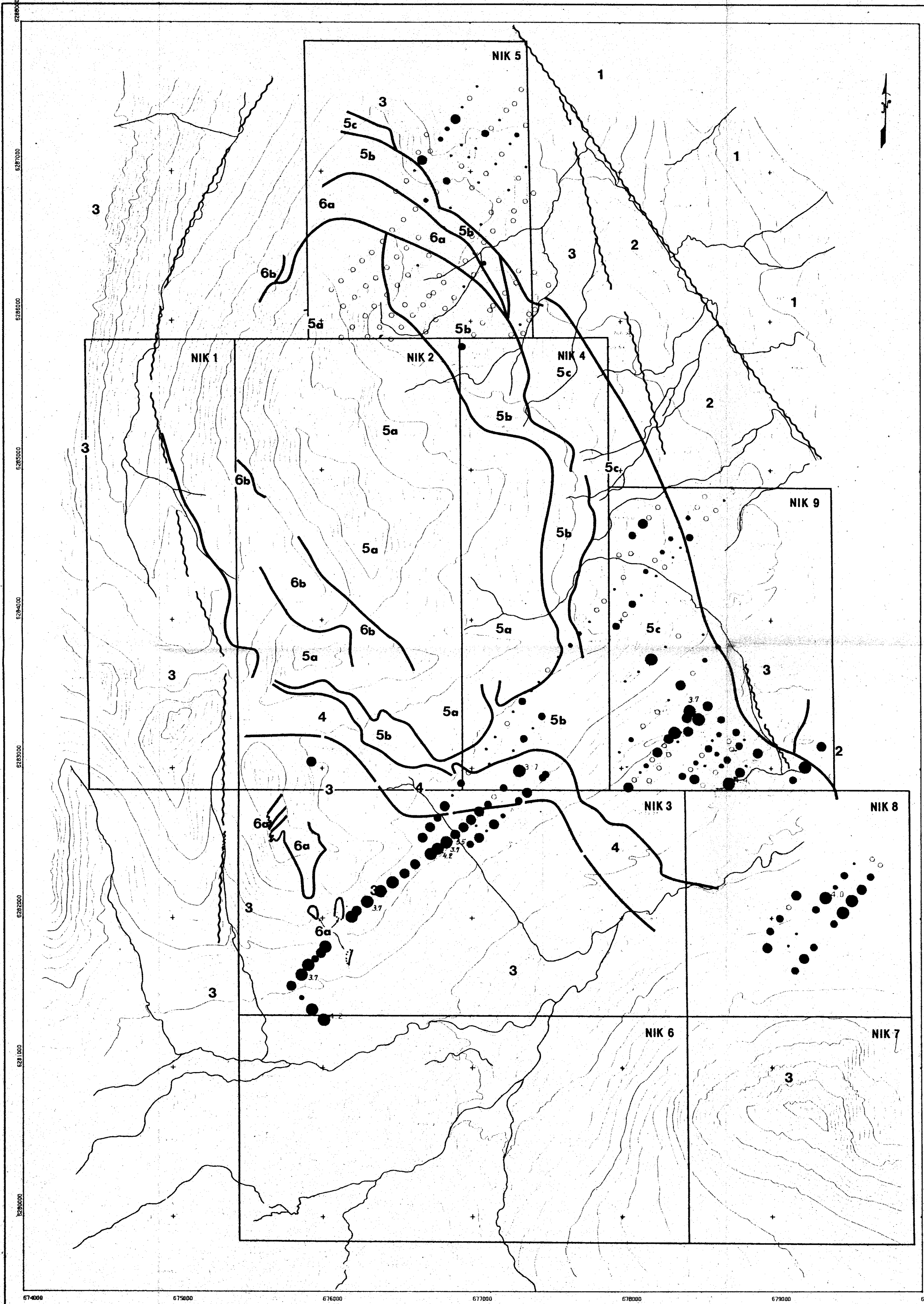


**BP Minerals Limited**

NIK CLAIMS  
TOODOGGONE PROJECT, B.C.  
MAGNESIUM (%) IN SOIL SAMPLES

|                         |                                 |                  |         |
|-------------------------|---------------------------------|------------------|---------|
| FILE NO<br>505-81-5     | DATE<br>OCTOBER 1981            | PROJECT<br>505-A | FIG. 4H |
| REPORT NO<br>BPVR 81-10 | NTS 940/9 SCALE 1 CM=200 METRES |                  |         |

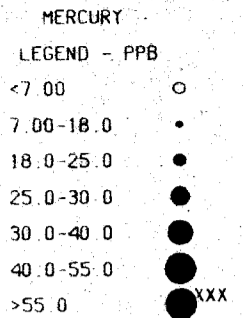
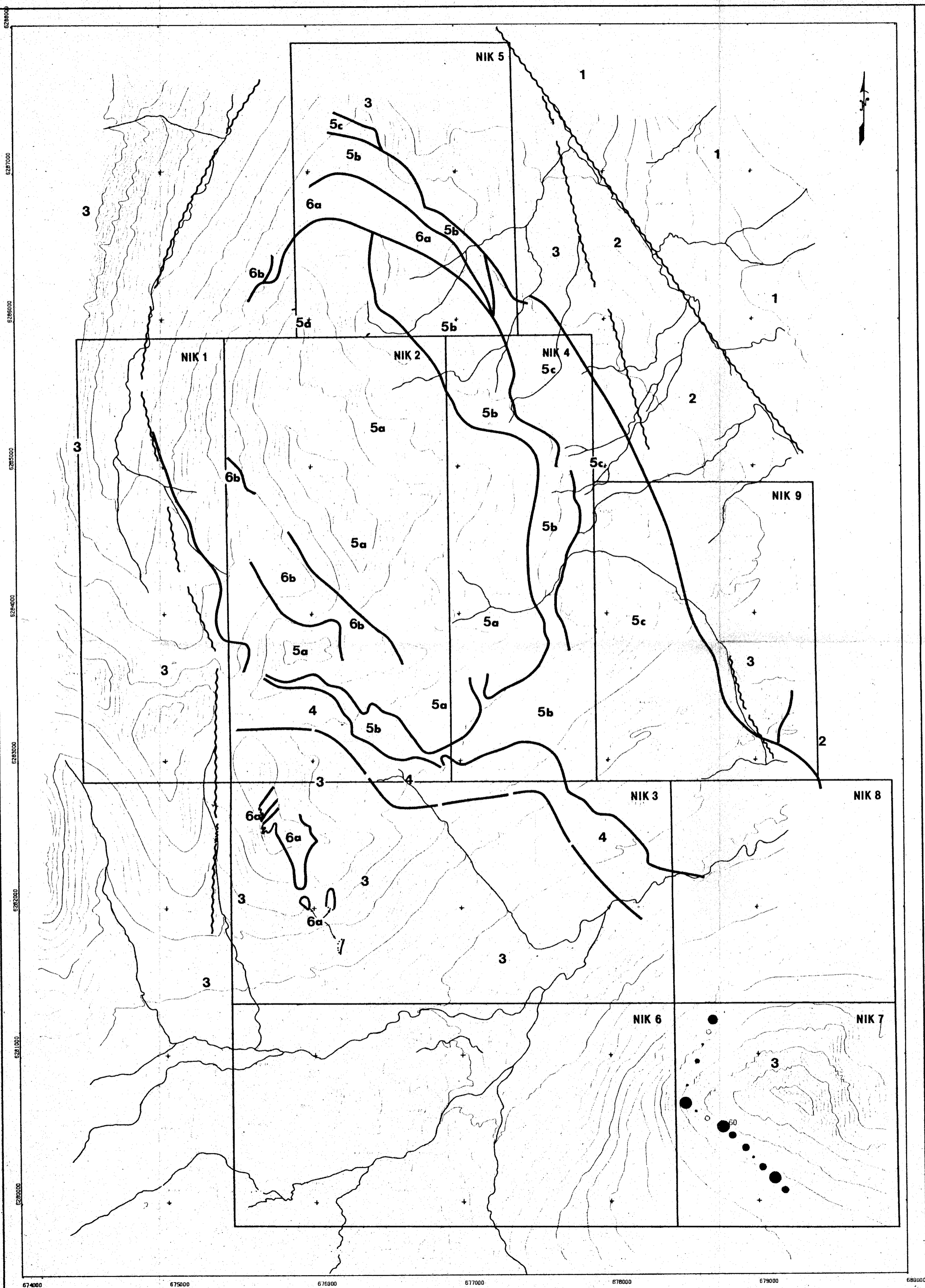
TO ACCOMPANY REPORT



**BP Minerals Limited**

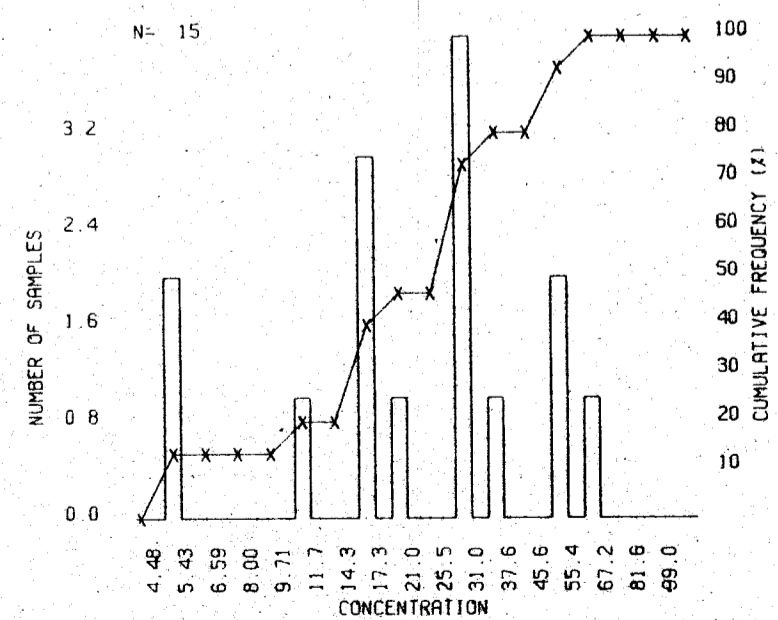
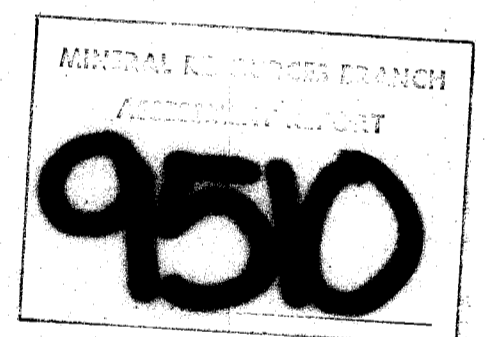
NIK CLAIMS  
TODDOGGONE PROJECT, B.C.  
ALUMINUM (PERCENT) IN SOIL SAMPLES

|                       |                   |                       |         |
|-----------------------|-------------------|-----------------------|---------|
| DWS NO. 505-81-6      | DATE OCTOBER 1981 | PROJECT 505-A         | FIG. 41 |
| REPORT NO. BPVR 81-10 | NTS 940/3         | SCALE 1 CM=200 METRES |         |
| TO ACCOMPANY REPORT:  |                   |                       |         |



**LEGEND**

- 6a** MONZODIORITE
  - 6b** QUARTZ DIORITE
  - 5a** DUNITE
  - 5b** PERIDOTITE, PYROXENITE
  - 5c** HORNBLENDITE
  - 4** AMPHIBOLITE
  - 3** TAKLA VOLCANICS
  - 2** LAY RANGE VOLCANICS
  - 1** INGENIKA SEDIMENTS
- Contact  
 Fault



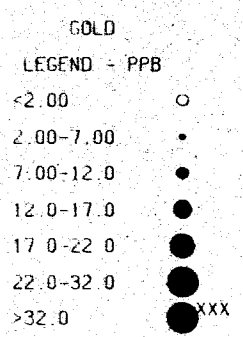
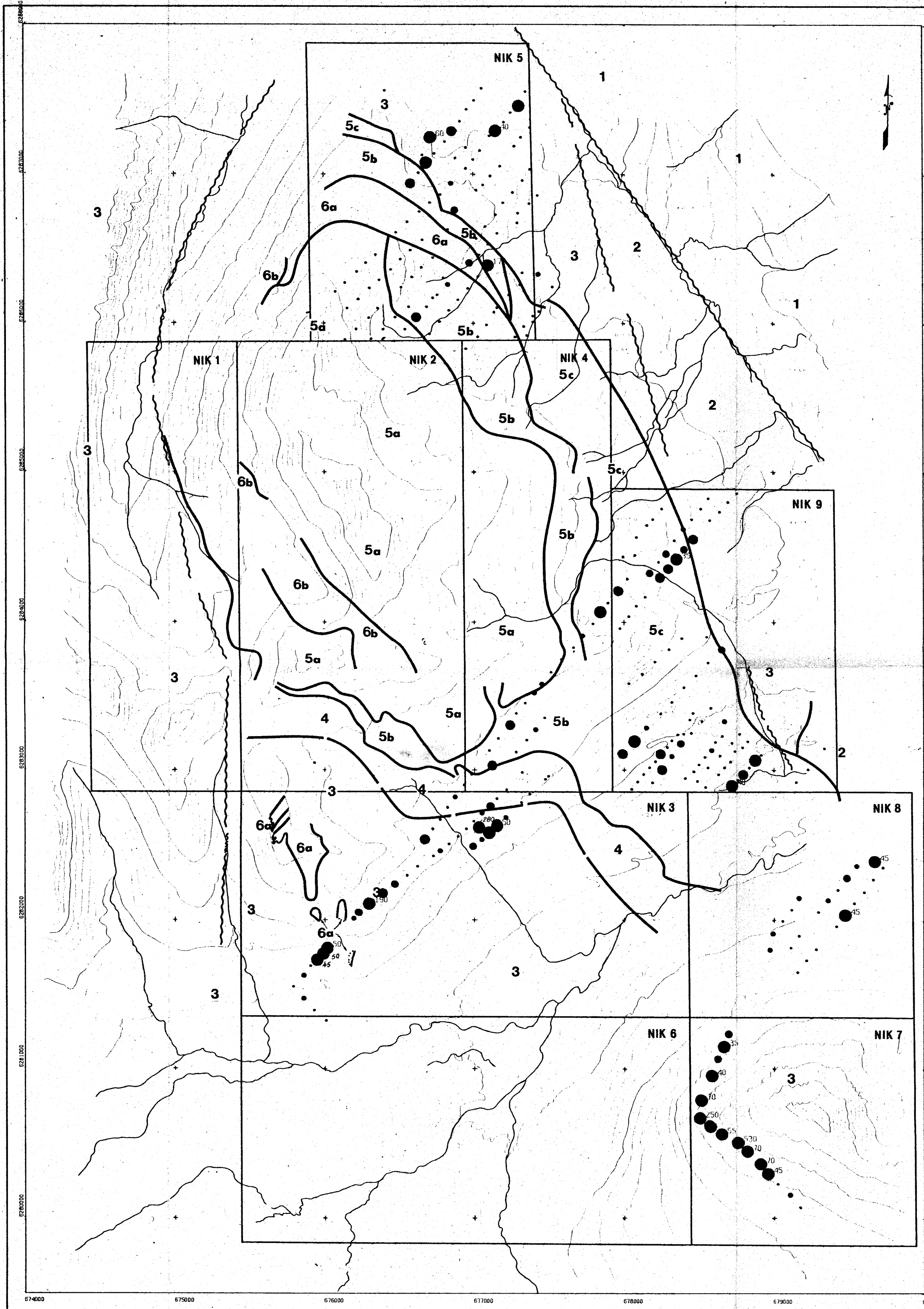
**BP Minerals Limited**

NIK CLAIMS  
TOODOGGONE PROJECT, B.C.  
MERCURY (PPB) IN SOILS

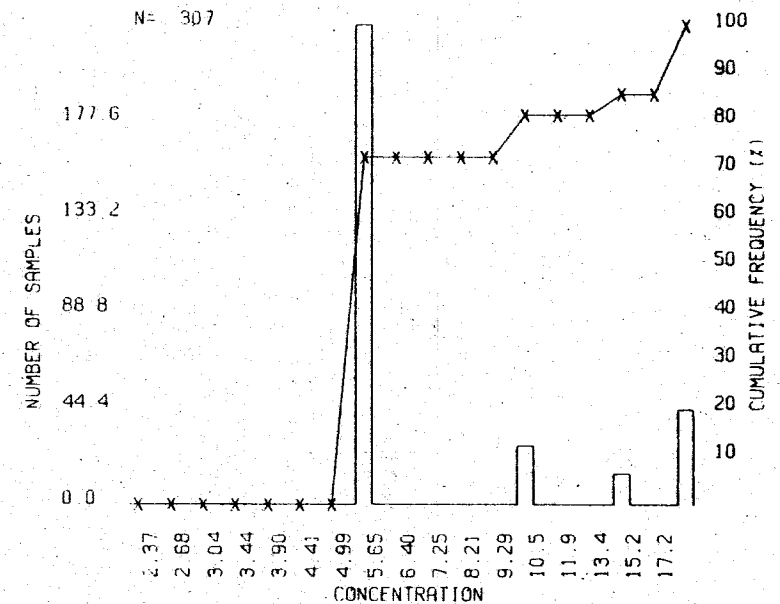
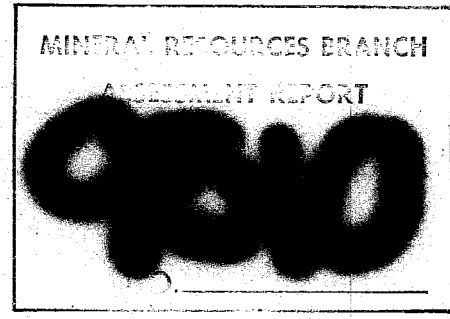
|                       |                                 |         |
|-----------------------|---------------------------------|---------|
| DWG. NO. 808-B1-8     | DATE OCTOBER 1981 PROJECT 505-A | FIG. 4J |
| REPORT NO. BPVR 81-10 | NTS 94D/9 SCALE 1 CM=200 METRES |         |

TO ACCOMPANY REPORT





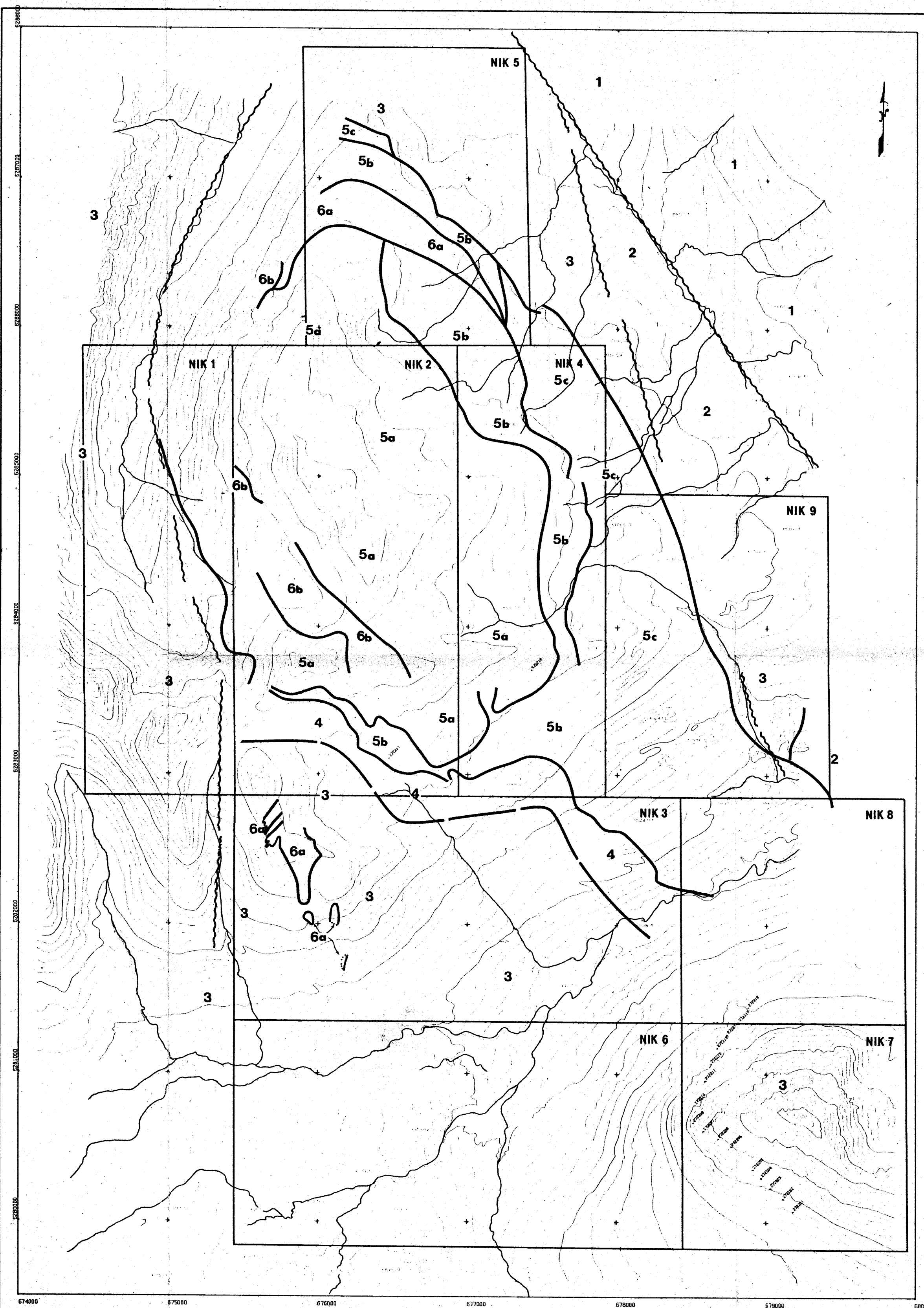
- LEGEND**
- 6a** MONZODIORITE
  - 6b** QUARTZ DIORITE
  - 5a** DUNITE
  - 5b** PERIDOTITE, PYROXENITE
  - 5c** HORNBLENDITE
  - 4** AMPHIBOLITE
  - 3** TAKLA VOLCANICS
  - 2** LAY RANGE VOLCANICS
  - 1** INGENIKA SEDIMENTS
- Contact  
 ~~~~~ Fault





**BP Minerals Limited**

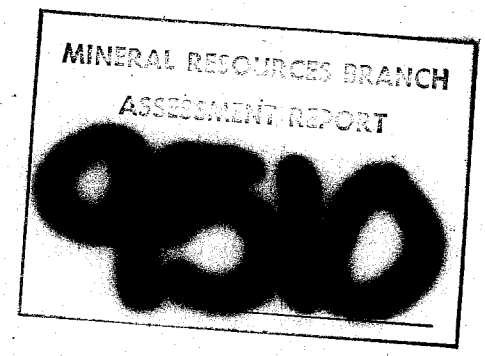
NIK CLAIMS  
TODDOGGONE PROJECT, B.C.  
GOLD (PPB) IN SOILS

|                         |                                 |               |        |
|-------------------------|---------------------------------|---------------|--------|
| DWG NO<br>505-81-5      | DATE OCTOBER 1981               | PROJECT 505-A | FIG 4G |
| REPORT NO<br>SPVR 81-10 | NTS 940/9 SCALE 1 CM=200 METRES |               |        |
| TO ACCOMPANY REPORT     |                                 |               |        |

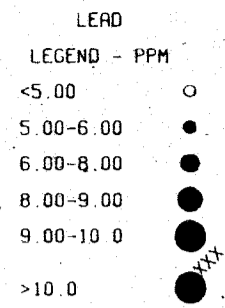
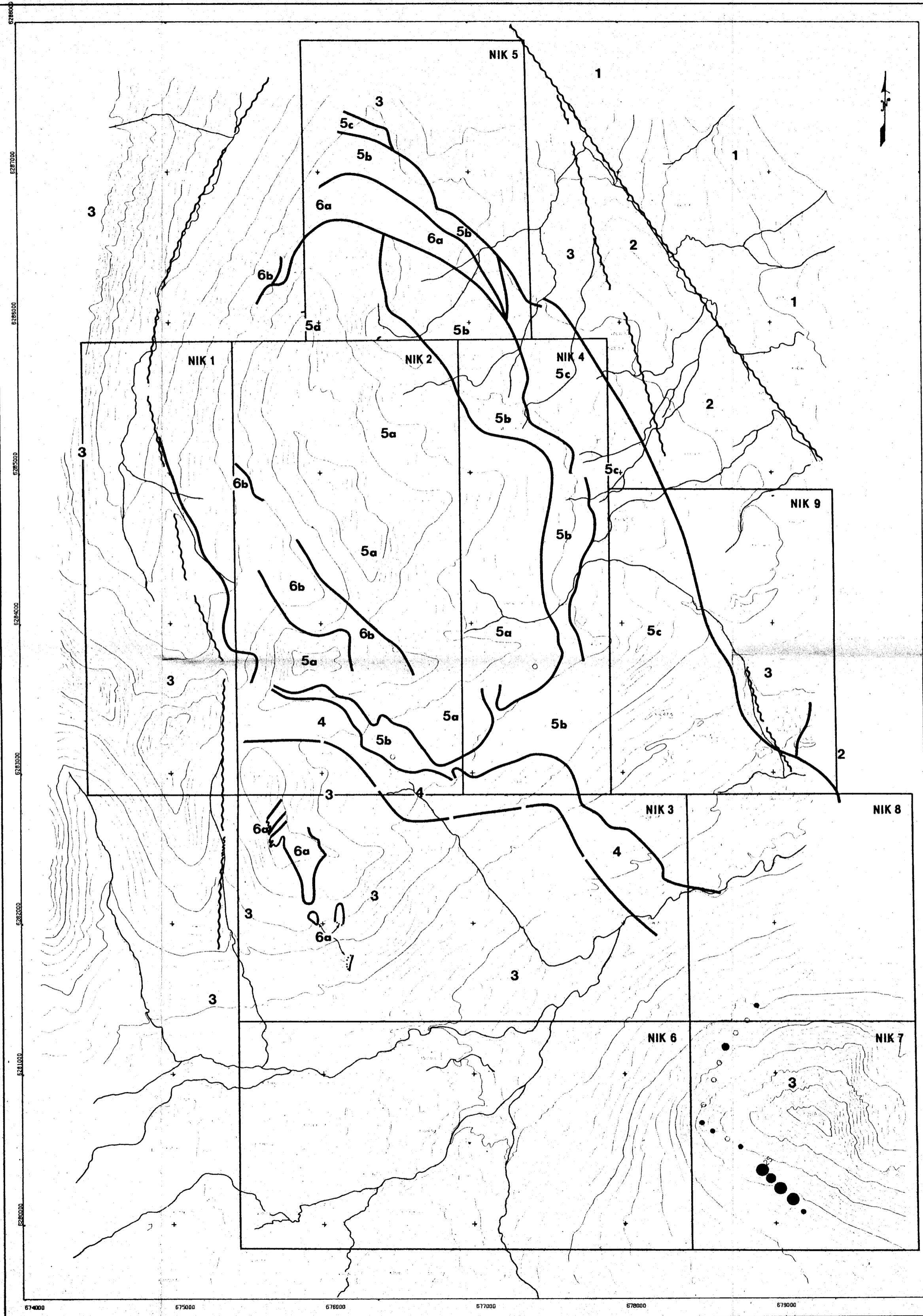


**LEGEND**

- 6a** MONZODIORITE
  - 6b** QUARTZ DIORITE
  - 5a** DUNITE
  - 5b** PERIDOTITE, PYROXENITE
  - 5c** HORNBLENDITE
  - 4** AMPHIBOLITE
  - 3** TAKLA VOLCANICS
  - 2** LAY RANGE VOLCANICS
  - 1** INGENIKA SEDIMENTS
-  Contact  
 Fault

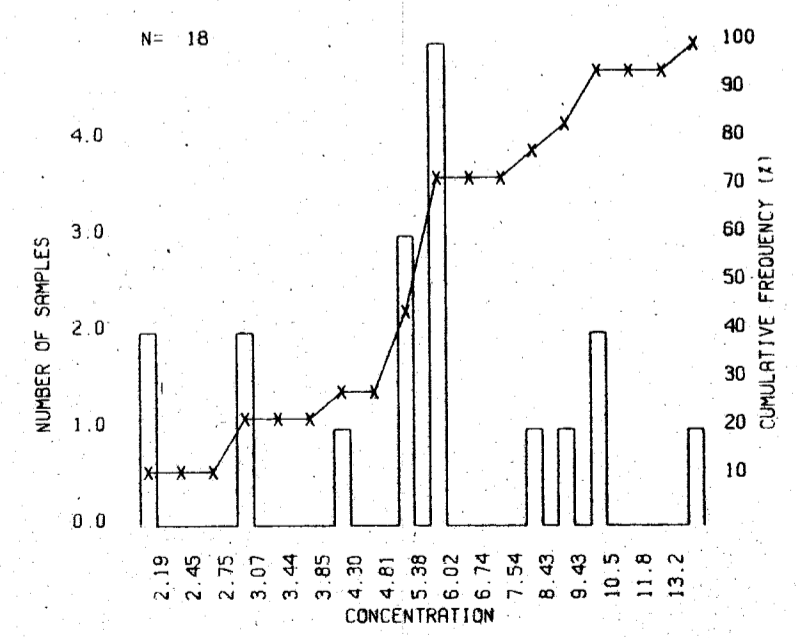


|                            |                                 |                  |         |
|----------------------------|---------------------------------|------------------|---------|
| BP Minerals Limited        |                                 |                  |         |
| NIK CLAIMS                 |                                 |                  |         |
| TODDGGONE PROJECT, B.C.    |                                 |                  |         |
| ROCK CHIP SAMPLE LOCATIONS |                                 |                  |         |
| DWG. NO.<br>808-81-5       | DATE<br>OCTOBER 1981            | PROJECT<br>505-A | FIG. 5A |
| REPORT NO.<br>81-10        | NTS 940/9 SCALE 1 CM=200 METRES |                  |         |
| TO ACCOMPANY REPORT:       |                                 |                  |         |



- LEGEND**
- 6a** MONZODIORITE
  - 6b** QUARTZ DIORITE
  - 5a** DUNITE
  - 5b** PERIDOTITE, PYROXENITE
  - 5c** HORNBLENDITE
  - 4** AMPHIBOLITE
  - 3** TAKLA VOLCANICS
  - 2** LAY RANGE VOLCANICS
  - 1** INGENIKA SEDIMENTS
- Contact  
 ~~~~~ Fault

MINERAL RESOURCES BRANCH  
**9510**



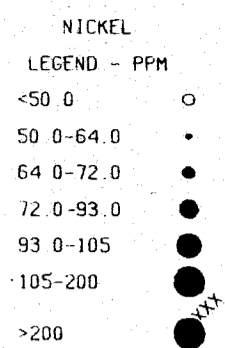
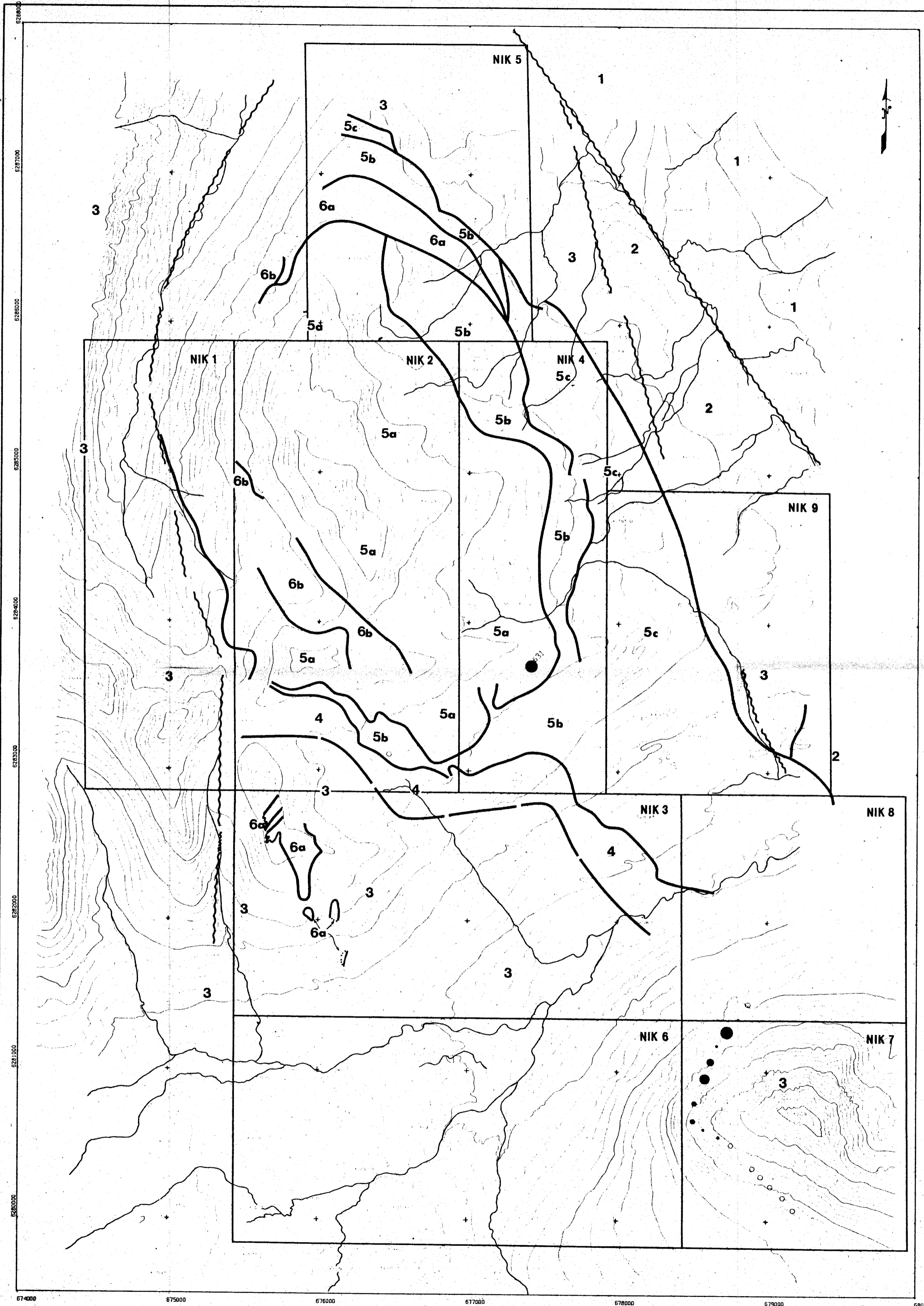
**BP Minerals Limited**

NIK CLAIMS  
 TODDGOONE PROJECT, B.C.  
 LEAD (PPM) IN ROCK CHIP SAMPLES

|                         |                                 |         |
|-------------------------|---------------------------------|---------|
| DWG NO<br>805-81-5      | DATE OCTOBER 1981 PROJECT 505-A | FIG. 5B |
| REPORT NO<br>BPVR 81-90 | NTS 940/9 SCALE 1 CM=200 METRES |         |

TO ACCOMPANY REPORT:



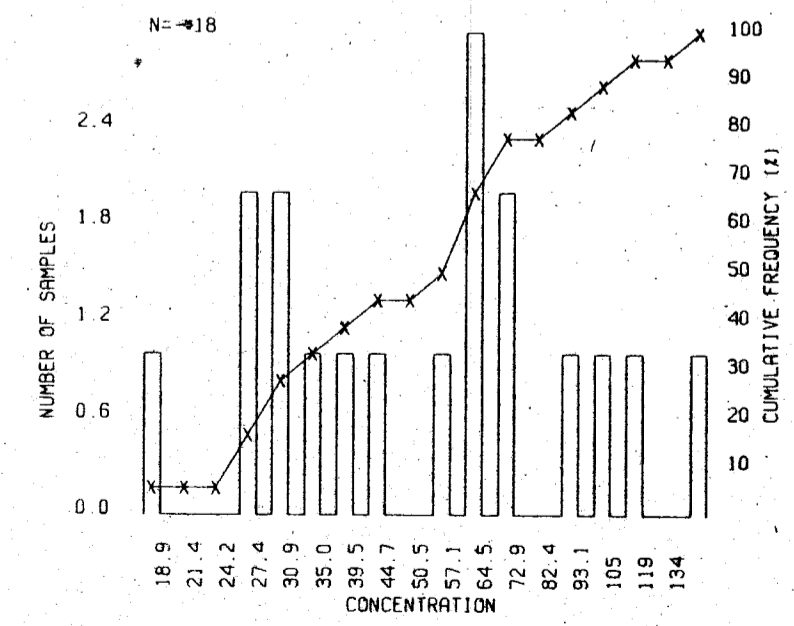


**LEGEND**

- 6a** MONZODIORITE
- 6b** QUARTZ DIORITE
- 5a** DUNITE
- 5b** PERIDOTITE, PYROXENITE
- 5c** HORNBLENDITE
- 4** AMPHIBOLITE
- 3** TAKLA VOLCANICS
- 2** LAY RANGE VOLCANICS
- 1** INGENIKA SEDIMENTS

- Contact
- Fault

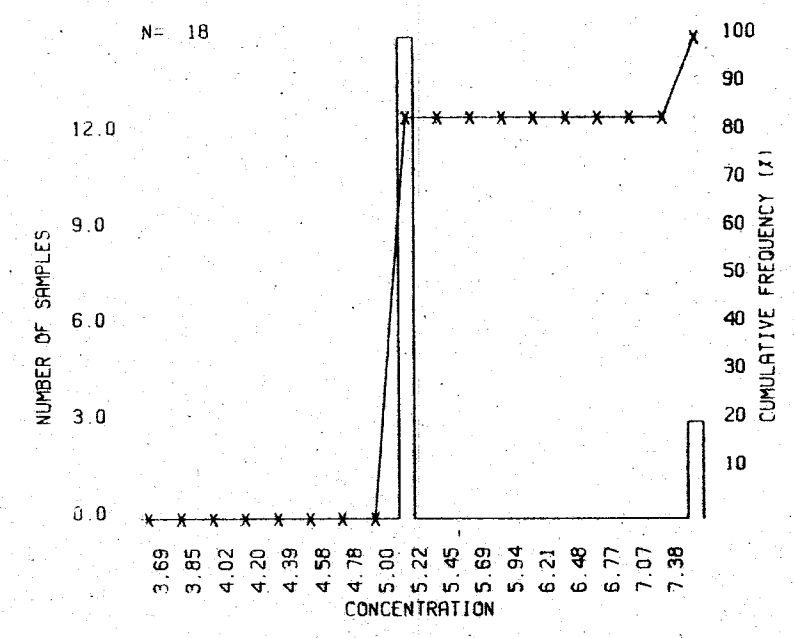
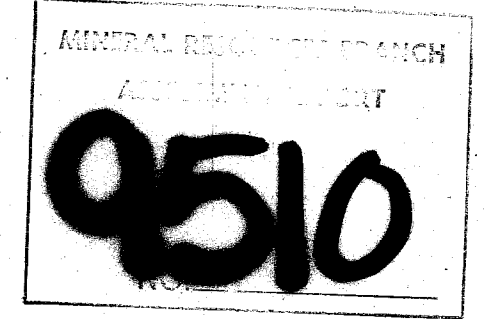
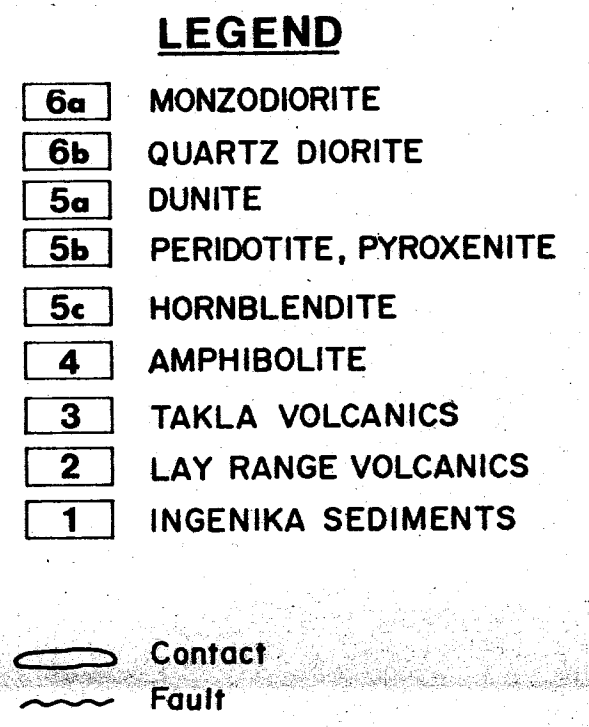
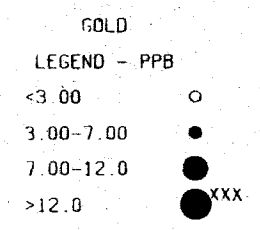
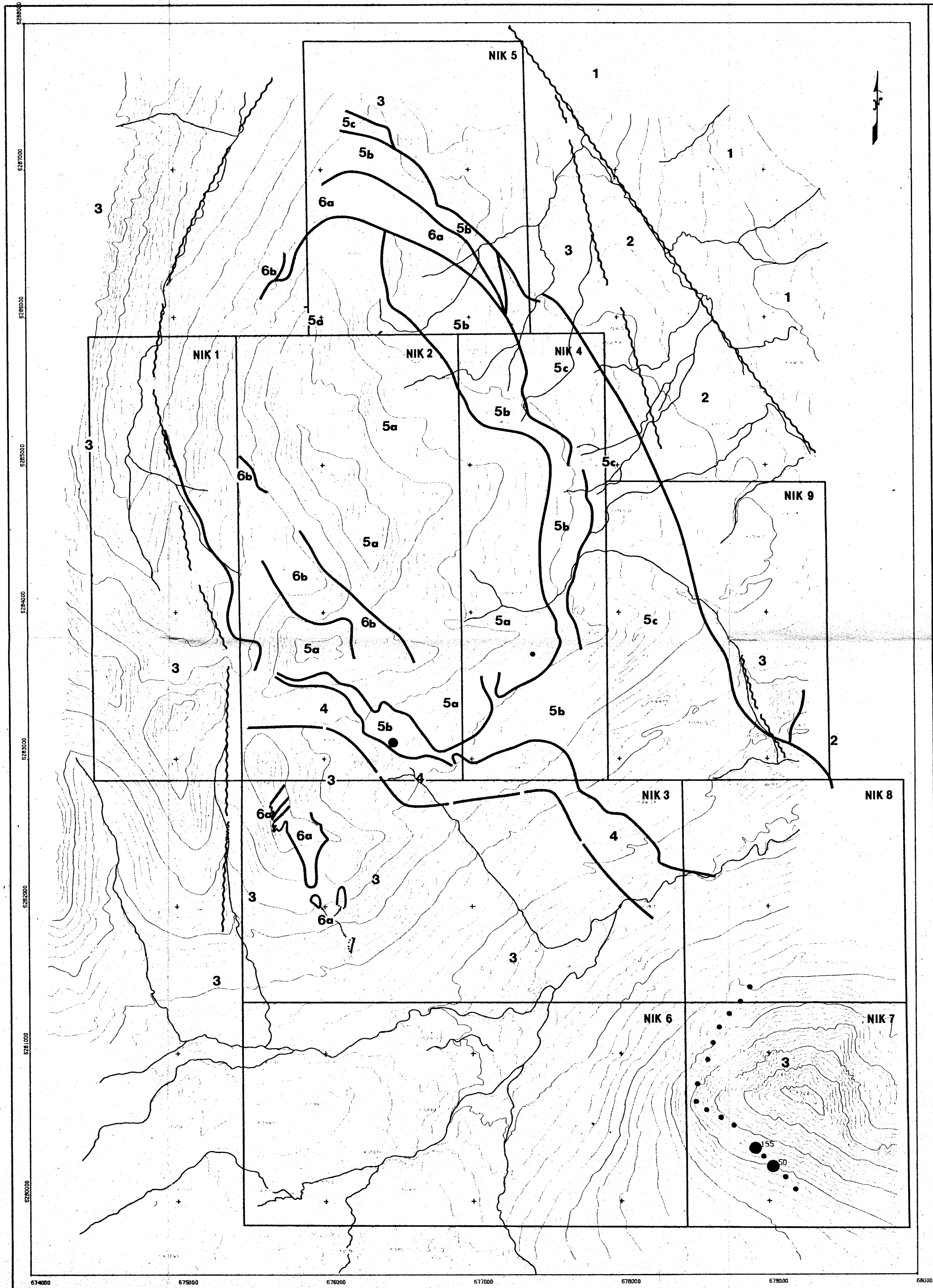
9510



**BP Minerals Limited**

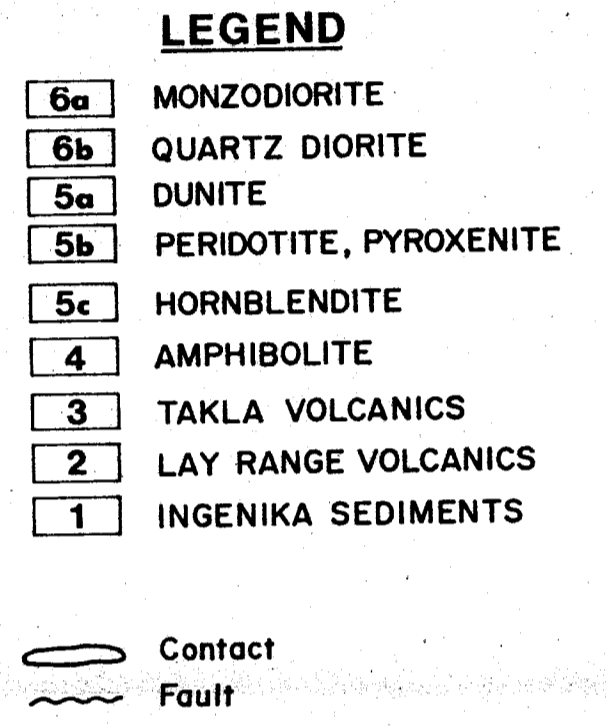
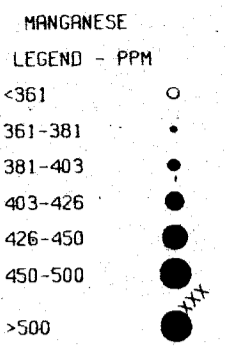
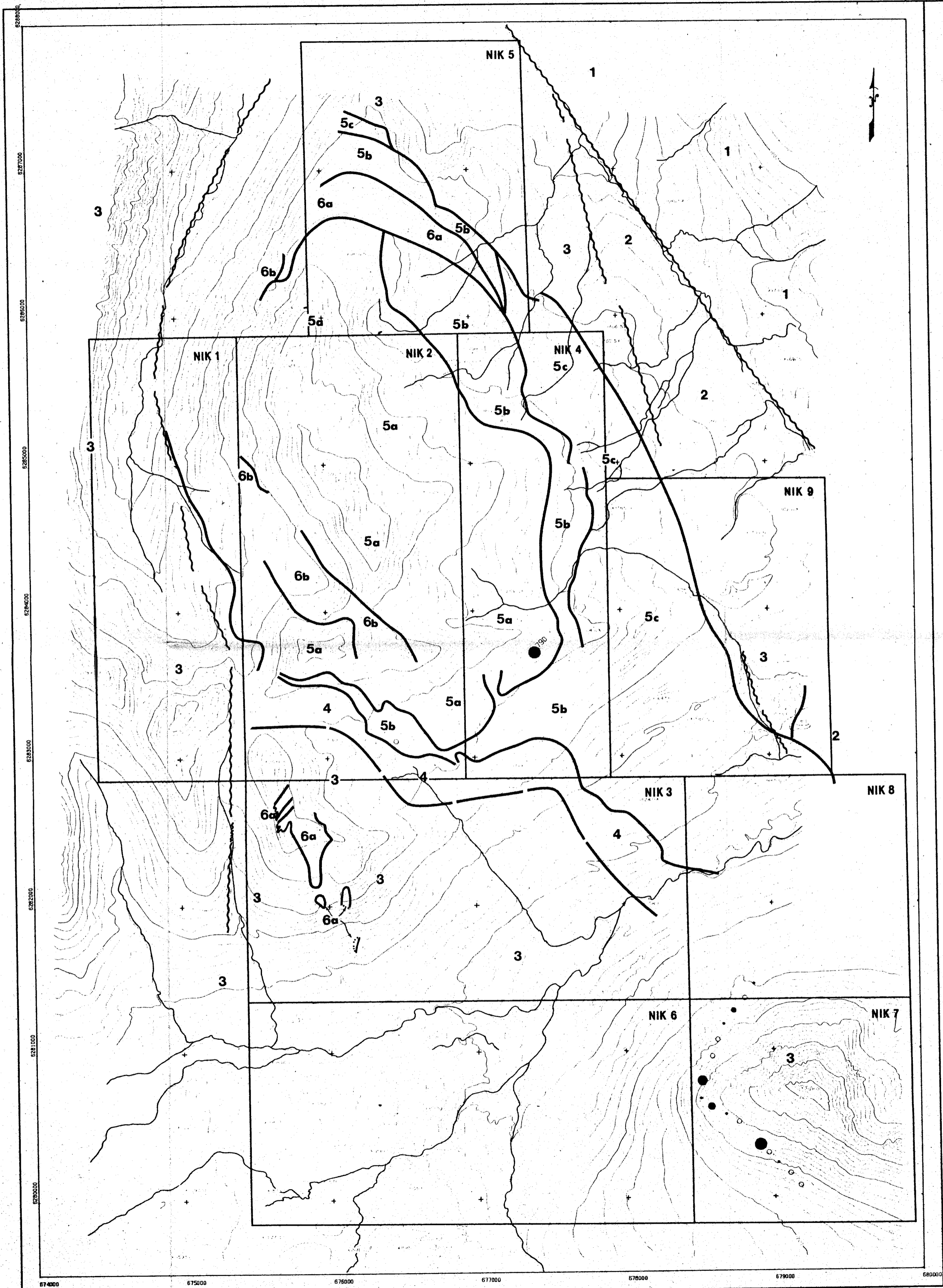
NIK CLAIMS  
TODDGGONE PROJECT, B.C.  
NICKEL (PPM) IN ROCK CHIP SAMPLES

|                                |                                 |                         |                |
|--------------------------------|---------------------------------|-------------------------|----------------|
| Dwg No<br><b>505-81-6</b>      | DATE<br><b>OCTOBER 1981</b>     | PROJECT<br><b>505-A</b> | <b>Fig. 5C</b> |
| Report No<br><b>BP/M 81-10</b> | NTS 940/9 SCALE 1 CM=200 METRES |                         |                |
| TO ACCOMPANY REPORT            |                                 |                         |                |

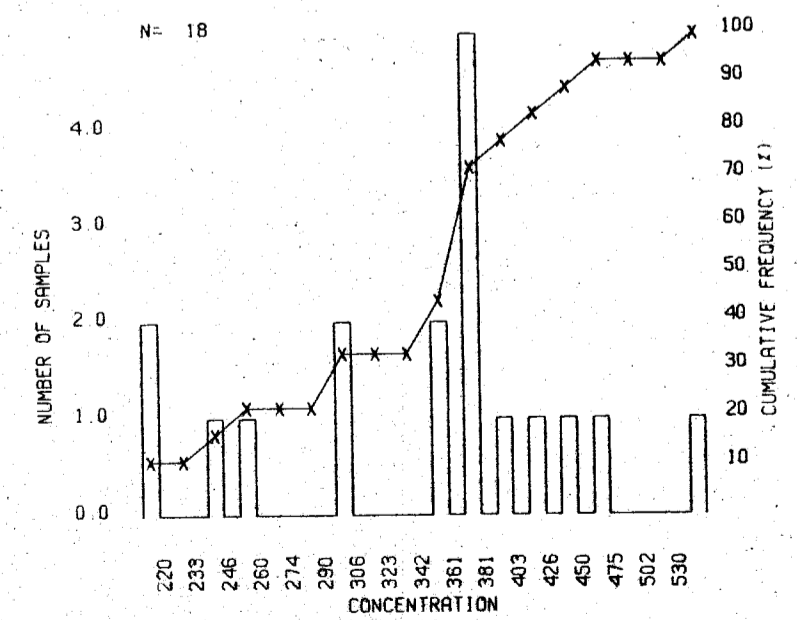
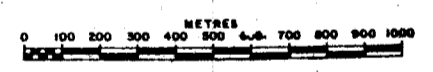


|                             |                                 |                  |                |
|-----------------------------|---------------------------------|------------------|----------------|
| <b>BP Minerals Limited</b>  |                                 |                  |                |
| NIK CLAIMS                  |                                 |                  |                |
| TODDOGGONE PROJECT, B.C.    |                                 |                  |                |
| GOLD (PPB) IN BEDROCK CHIPS |                                 |                  |                |
| DWG NO.<br>505-81-5         | DATE<br>OCTOBER 1981            | PROJECT<br>505-A | <b>Fig. 5G</b> |
| REPORT NO.<br>81V-81-10     | NTS 94D/9 SCALE 1 CM=200 METRES |                  |                |
| TO ACCOMPANY REPORT         |                                 |                  |                |





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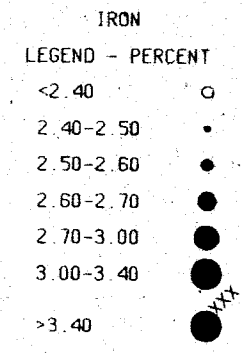
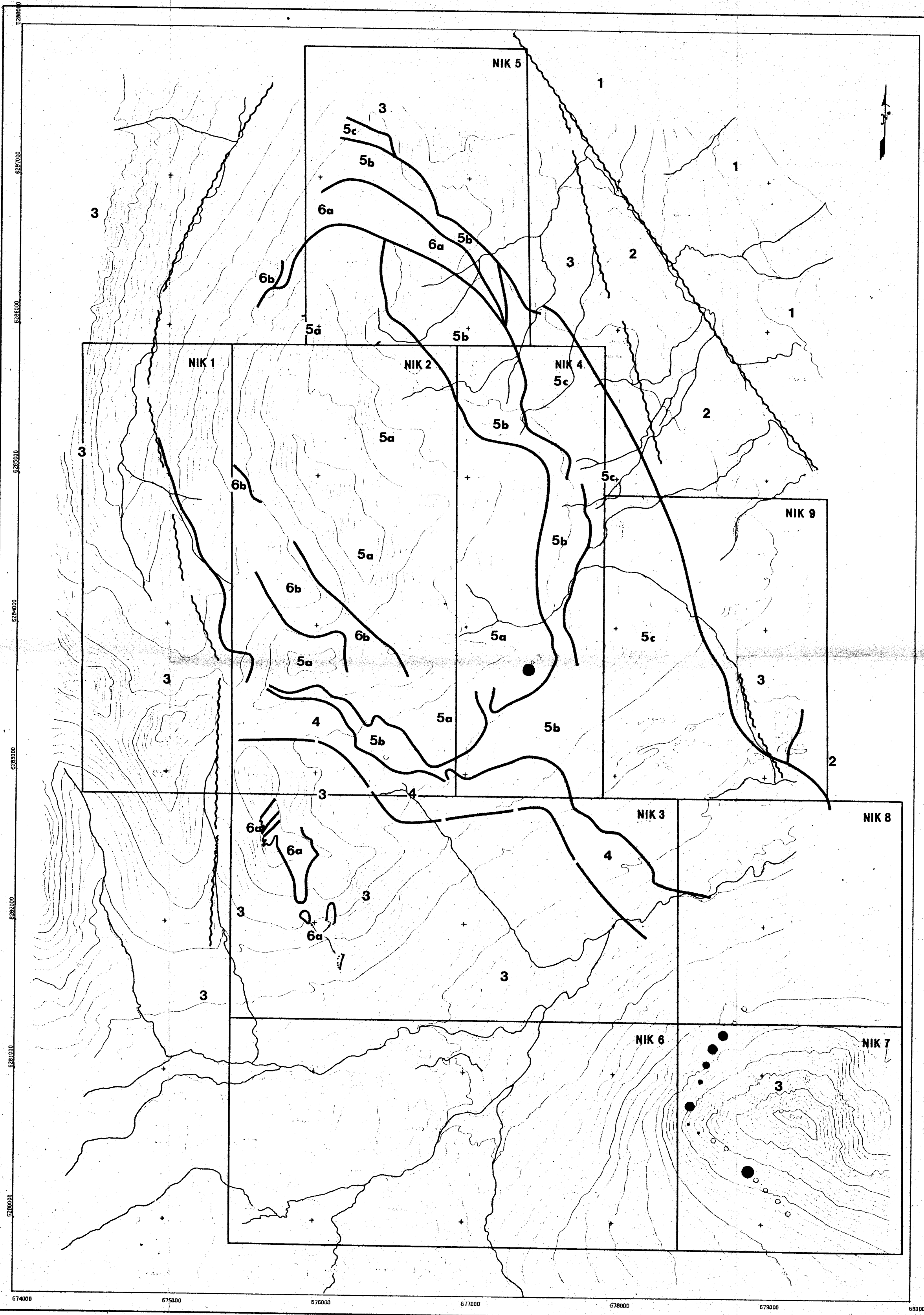
**BP Minerals Limited**

NIK CLAIMS  
TOODOGGONE PROJECT, B.C.  
MANGANESE (PPM) IN ROCK CHIP SAMPLES

|                         |                   |                       |                |
|-------------------------|-------------------|-----------------------|----------------|
| Dwg. No.<br>505-81-5    | DATE OCTOBER 1981 | PROJECT 505-A         | <b>FIG. 5D</b> |
| REPORT NO.<br>505-81-10 | NTS 940/9         | SCALE 1 CM=200 METRES |                |

TO ACCOMPANY REPORT

674000 675000 676000 677000 678000 679000 680000

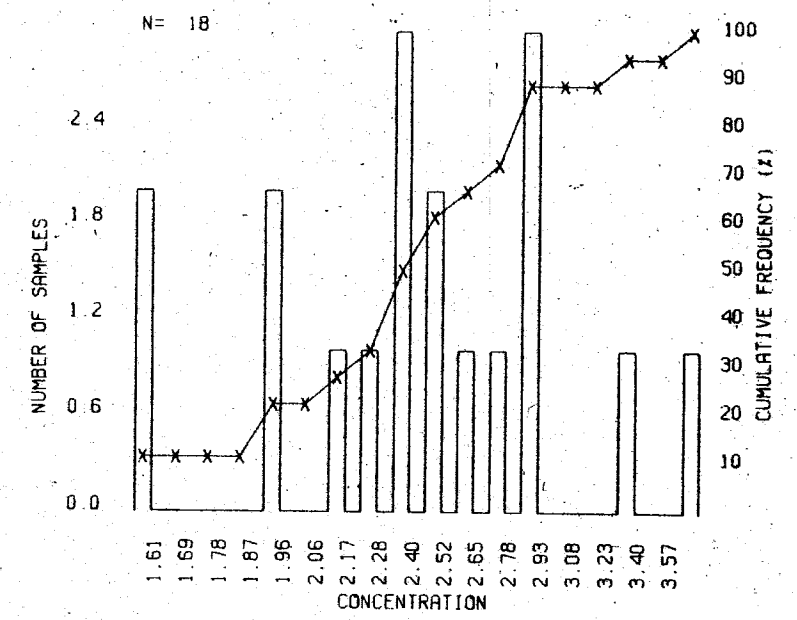


**LEGEND**

- 6a** MONZODIORITE
- 6b** QUARTZ DIORITE
- 5a** DUNITE
- 5b** PERIDOTITE, PYROXENITE
- 5c** HORNBLENDITE
- 4** AMPHIBOLITE
- 3** TAKLA VOLCANICS
- 2** LAY RANGE VOLCANICS
- 1** INGENIKA SEDIMENTS

- Contact
- Fault

**9510**

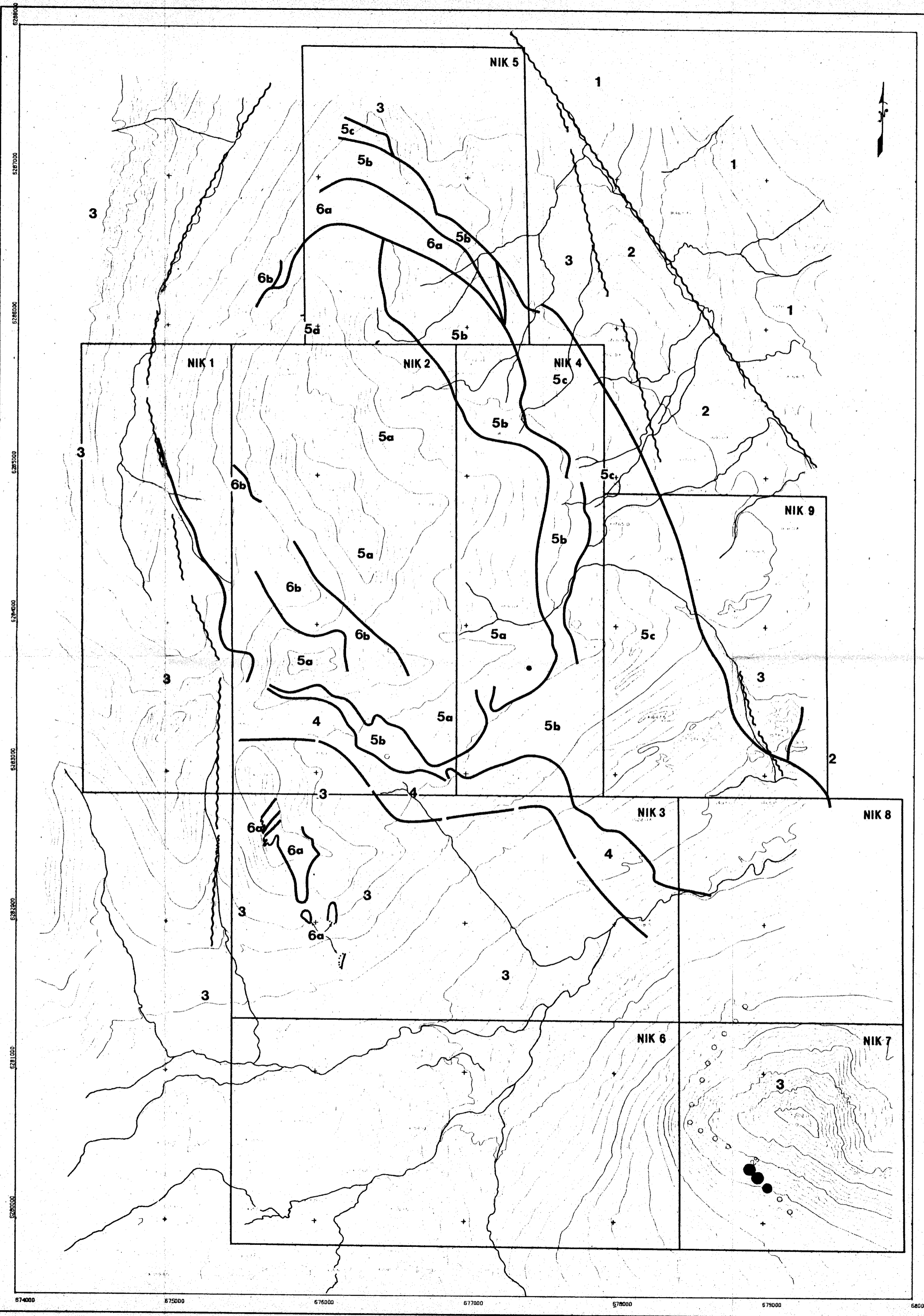


**BP Minerals Limited**

NIK CLAIMS  
TODDOGGONE PROJECT, B.C.  
IRON (PERCENT) IN ROCK CHIP SAMPLES

|                       |                                 |               |         |
|-----------------------|---------------------------------|---------------|---------|
| DWG. NO. 505-B1-5     | DATE OCTOBER 1981               | PROJECT 505-A | FIG. 5E |
| REPORT NO. BPVR 81-10 | NTS 940/9 SCALE 1 CM=200 METRES |               |         |

TO ACCOMPANY REPORT:



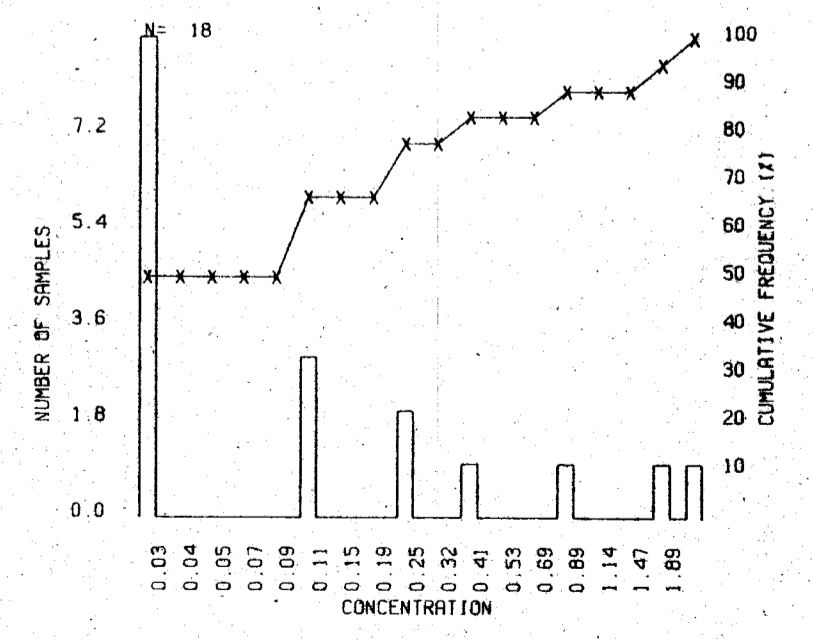
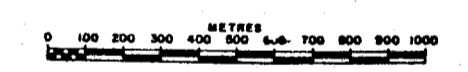
SILVER  
 LEGEND - PPM  
 <0.20 ○  
 0.20-0.50 ●  
 0.50-0.90 ●  
 0.90-2.00 ●  
 >2.00 ●

**LEGEND**

- 6a** MONZODIORITE
- 6b** QUARTZ DIORITE
- 5a** DUNITE
- 5b** PERIDOTITE, PYROXENITE
- 5c** HORNBLENDITE
- 4** AMPHIBOLITE
- 3** TAKLA VOLCANICS
- 2** LAY RANGE VOLCANICS
- 1** INGENIKA SEDIMENTS

○ Contact  
 ~~~~~ Fault

MINERAL RESOURCES BRANCH  
 ACCOMPANYING REPORT  
**9510**



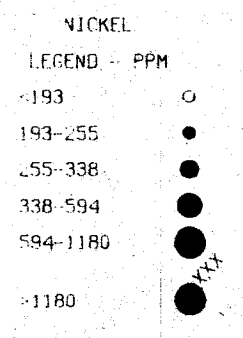
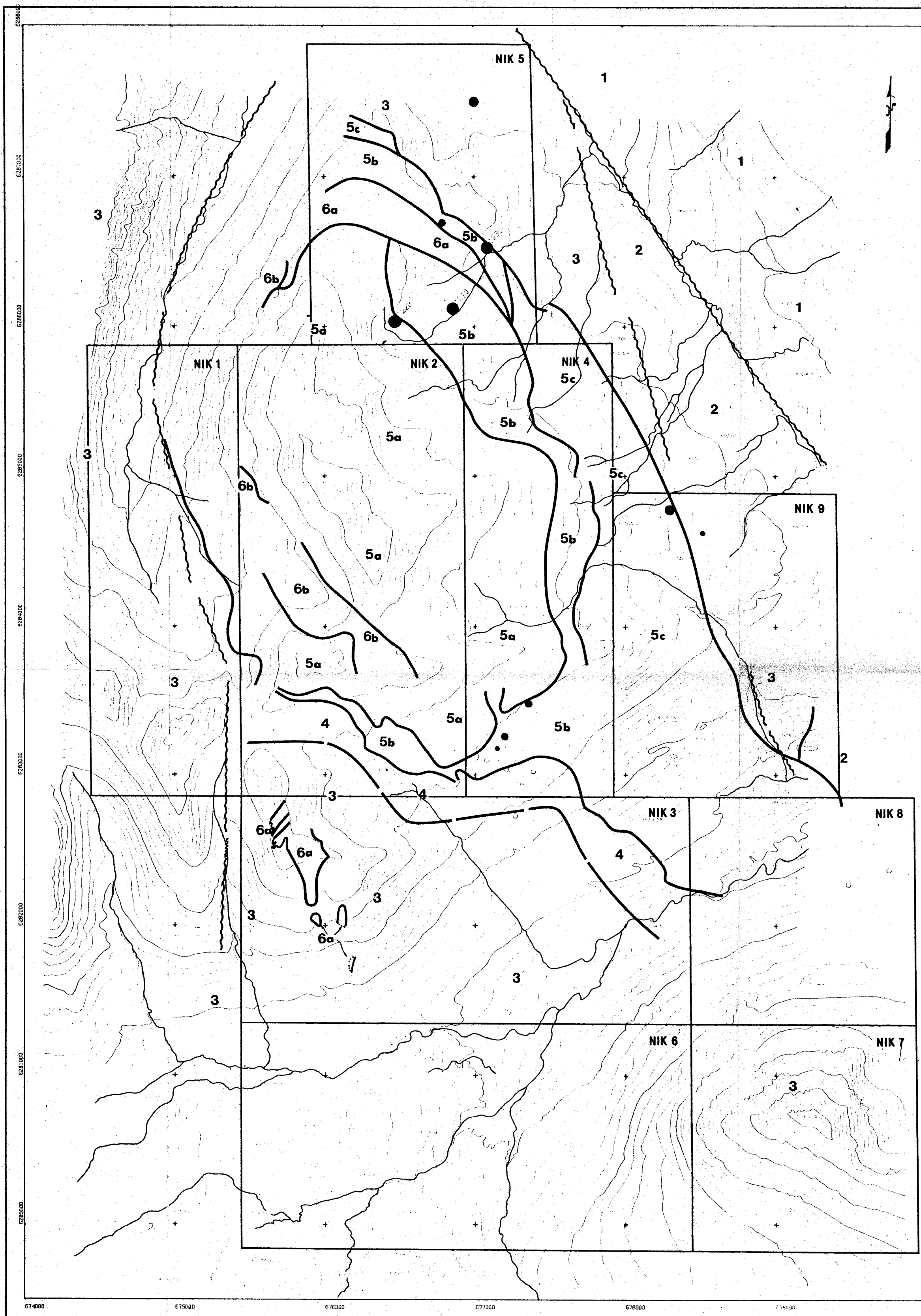
**BP Minerals Limited**  
 NIK CLAIMS  
 TODDOGGONE PROJECT, B.C.  
 SILVER (PPM) IN ROCK CHIP SAMPLES

|                       |                   |                        |         |
|-----------------------|-------------------|------------------------|---------|
| DWG NO. 505-91-5      | DATE OCTOBER 1981 | PROJECT 505-A          | FIG. 5F |
| REPORT NO. BPWR 81-10 | NTS 94D/9         | SCALE 1 CM=200 METRES. |         |

TO ACCOMPANY REPORT

674000 675000 676000 677000 678000 679000 680000



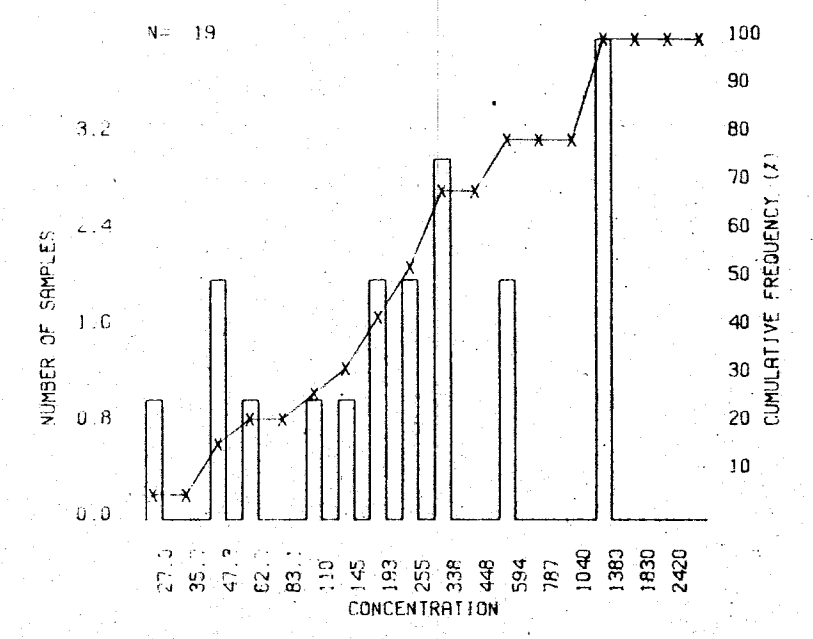


**LEGEND**

- 6a** MONZODIORITE
- 6b** QUARTZ DIORITE
- 5a** DUNITE
- 5b** PERIDOTITE, PYROXENITE
- 5c** HORNBLENDITE
- 4** AMPHIBOLITE
- 3** TAKLA VOLCANICS
- 2** LAY RANGE VOLCANICS
- 1** INGENIKA SEDIMENTS

- Contact
- Fault

MINERAL RESOURCES BRANCH  
9510



**BP Minerals Limited**

NIK CLAIMS  
TODDGGONE PROJECT - B.C.  
NICKEL (PPM) IN STREAM SEDIMENT SAMPLES

|                       |                   |                       |
|-----------------------|-------------------|-----------------------|
| DWG. NO. 505-81-5     | DATE OCTOBER 1981 | PROJECT 505-A         |
| REPORT NO. BPVR 81-10 | NTS 940/9         | SCALE 1 CM=200 METRES |

FIG. 3C