

81-# 8 39-9534
GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT
CANADIAN NICKEL COMPANY LIMITED
BEAR CLAIMS, GROUPS A, B, & C,
BE, BW CLAIMS - OMINECA MINING DIVISION
94D/2W
Peter Peto, Ph.D. & Barry Krause
September, 1981

9534

Geological, Geochemical and Geophysical Report

on the

Bear Claims, Groups A, B, & C,

and

BE, BW Claims

located in the

Omineca Mining Division

94D/2W

($56^{\circ} 07'$ North and $126^{\circ} 53'$ West)

Owned and operated by

Canadian Nickel Company Ltd.
#80 - 10551 Shellbridge Way
Richmond, B.C.
V6X 2W8

written by

Peter Peto, Ph.D.

&

Barry Krause

Sept. 30, 1981

TABLE OF CONTENTS

	<u>Page</u>
I. <u>INTRODUCTION</u>	
(i) Location, access & physiography	1
(ii) Property definition	1
(iii) Property History	1
(iv) Work Summary	2
II. <u>REGIONAL GEOLOGY</u>	2
III. <u>PROPERTY GEOLOGY</u>	2
(i) Volcanic Stratigraphy	3
(ii) Intrusive Rock Units	3
(iii) Mineralization	4
(iv) Structure	4
(v) Alteration	5
IV. <u>SOIL GEOCHEMICAL SURVEY</u>	5
V. <u>VLF ELECTROMAGNETIC SURVEY</u>	7
VI. <u>INDUCED POLARIZATION SURVEY</u>	8
VII. <u>CONCLUSIONS</u>	8
VIII. <u>STATEMENT OF EXPENDITURES</u>	
<u>REFERENCES</u>	
<u>Appendix A - Soil Geochemistry Results</u>	

LIST OF FIGURES

- Fig. 1 - Location Map
- Fig. 2 - Claim Groupings
- Fig. 3 - Stereogram of Poles to Quartz veins & fractures

BEAR CLAIMS MAPS & SECTIONS

1:5,000 scale

- Map #1 - Geology Map
- Map #2 - Mo-Cu Soil Geochem Survey - Sample Location Map
- Map #2a - Soil Geochem Survey - Molybdenite Assay Results
- Map #2b - Soil Geochem Survey - Copper Assay Results
- Map #3 - Rock Sample Location Map
- Map #3a - Rock Sample Assay Map - Molybdenite Results
- Map #3b - Rock Sample Assay Map - Copper Results
- Map #4 - EM 16 - VLF Survey Map
- Map #5 - Induced Polarization - Apparent Frequency Effect Contours
- Map #6 - Induced Polarization - Apparent Resistivity Contours

Sections - 13 IP Pseudo Sections

TABLES

- Table 1: List of Claims
- Table 2: Bear soil profiles

I. INTRODUCTION

(i) Location, access and physiography

The Bear, BE and BW claims are located about 154 km. north of Smithers on Tsaytut Spur which forms the drainage divide between the Driftwood and Bear-Sustut River systems. (Fig. 1) The claims are accessible by helicopter from Smithers, B.C. A gravel landing strip is situated about 11 km. north of the claims whereas aircraft on floats could land within 3 km. of the main ridge. The Fort St. James to Dease Lake railway passes within 5 km. of the claims on the east shore of Bear Lake. Rail construction was abandoned north of Bear Lake and the existing rail line is presently not in use beyond Takla Landing.

The claims cover glaciated, alpine terrain, on an elongate, northwest trending, relatively flat-topped ridge, between 1225 to 1825 meters above sea level. The ridge zone is covered by a thin veneer of grassy, alpine soil, scattered spruce thickets which give way to spruce forests below about 1825 meters.

(ii) Property definition

The property consists of the 51 claims staked between September 18, 1972 and Sept. 10, 1973 and an additional 2 claims (18 units) staked July 8, 1981. (Fig. 2) Claims in good standing are listed below. The assessment work reported herein was undertaken over the entire claim group, however, assessment work is applied only to those claims that are due to expire in 1981.

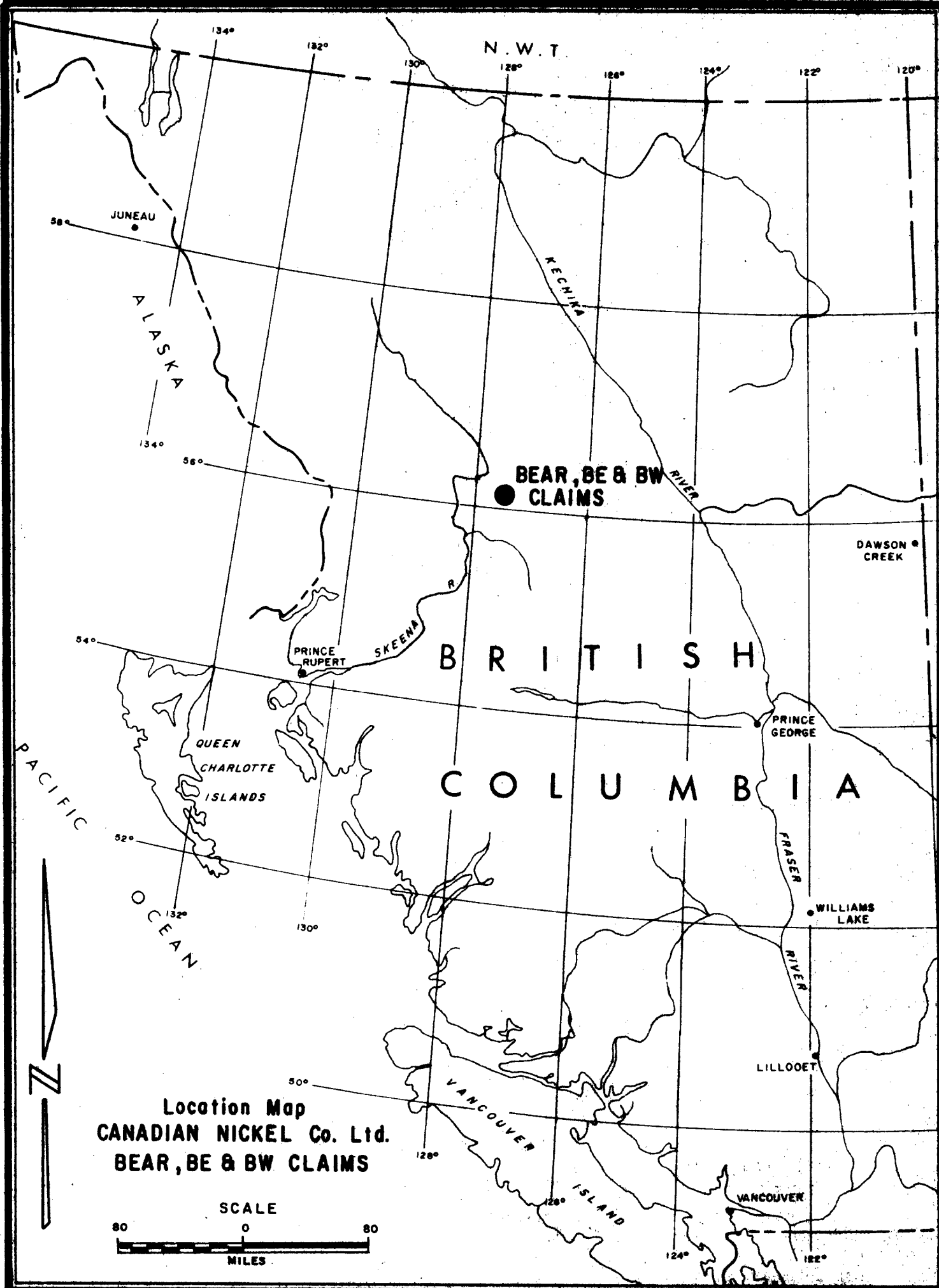
TABLE #1

<u>CLAIM NAMES</u>	<u>RECORD NUMBERS</u>	<u>RECORDED</u>	<u>DUE DATE</u>
Bear 3 - 14	117491 - 502	Sept. 18, 1972	Sept. 18, 1983
Bear 25, 27, 29, 31	117513, 15, 17, 19	Sept. 18, 1972	Sept. 18, 1983
Bear 26, 28, 30	117514, 16, 18	Sept. 18, 1972	Sept. 18, 1981*
Bear 41 - 50	117529 - 38	Sept. 18, 1972	Sept. 18, 1981*
Bear 55 - 56	126657 - 58	July 31, 1973	July 31, 1982
Bear 57 - 60	126659 - 62	July 31, 1973	July 31, 1982
Bear 61 - 70	126663 - 72	July 31, 1973	July 31, 1982
Bear 78 - 80	127596 - 98	Aug. 10, 1973	Aug. 10, 1981*
Bear 110	127627	Aug. 10, 1973	Aug. 10, 1982
Bear 118, 120, 122	127441, 43, 45	Sept. 10, 1973	Sept. 10, 1982
BE & BW	2843 - 44	July 8, 1980	July 8, 1981*

* Assessment work filed 1981

(iii) Property History

The Bear claims were staked by Canico on the basis of chalcopryrite and molybdenite mineralization discovered during a regional porphyry copper exploration program in 1972. A limited surface exploration program was undertaken in 1973 and the results



Location Map
CANADIAN NICKEL Co. Ltd.
BEAR, BE & BW CLAIMS

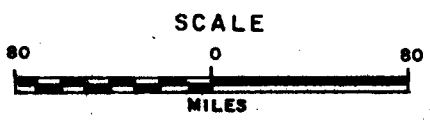
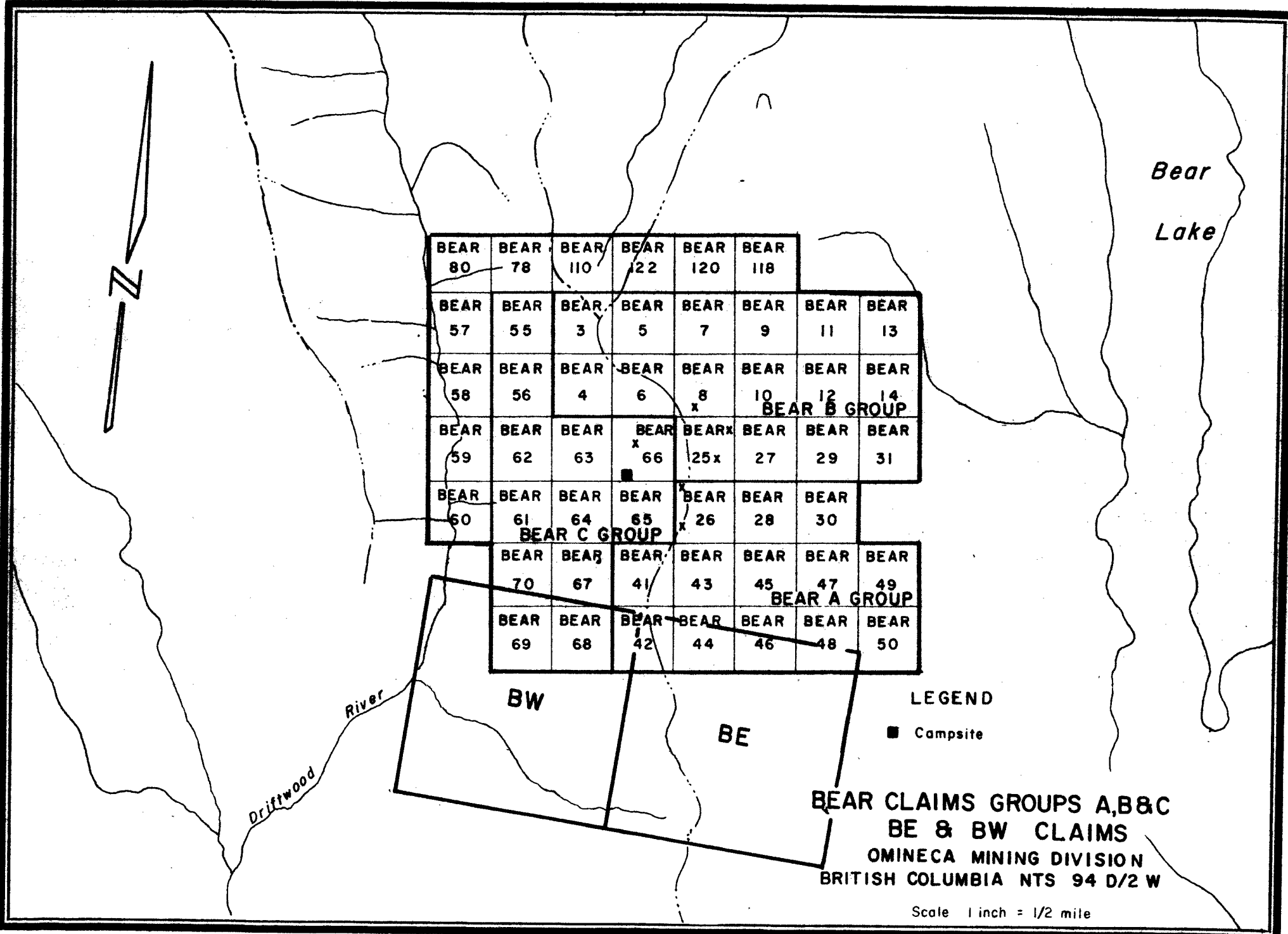


FIGURE I



BEAR 80	BEAR 78	BEAR 110	BEAR 122	BEAR 120	BEAR 118		
BEAR 57	BEAR 55	BEAR 3	BEAR 5	BEAR 7	BEAR 9	BEAR 11	BEAR 13
BEAR 58	BEAR 56	BEAR 4	BEAR 6	BEAR 8 x	BEAR 10	BEAR 12	BEAR 14
BEAR 59	BEAR 62	BEAR 63	BEAR 66 x	BEAR 25x	BEAR 27	BEAR 29	BEAR 31
BEAR 60	BEAR 61	BEAR 64	BEAR 65	BEAR 26 x	BEAR 28	BEAR 30	
	BEAR 70	BEAR 67	BEAR 41	BEAR 43	BEAR 45	BEAR 47	BEAR 49
	BEAR 69	BEAR 68	BEAR 42	BEAR 44	BEAR 46	BEAR 48	BEAR 50

Bear
Lake



Driftwood
River

BW

BE

LEGEND

■ Campsite

BEAR CLAIMS GROUPS A,B&C
BE & BW CLAIMS
OMINECA MINING DIVISION
BRITISH COLUMBIA NTS 94 D/2 W

Scale 1 inch = 1/2 mile

were reported by Gidluck (1973) in assessment report #4648. The surface program was followed up by an exploration drilling program, consisting of 4192 feet recovered from 10 boreholes, drilled between July 2 to September 8, 1974. The results of the drilling program were reported by Gidluck (1974) in assessment report #5236. No further evaluation was attempted until July 8, 1980 when a limited lithochemical orientation survey was undertaken. Present assessment work is based on an extended surface exploration program designed to further investigate the property beyond the original 1973 - 74 grid.

(iv) Work Summary

The 1981 surface program consisted of refurbishing and extending the previous grid to its present size of about 21.8 km (13.3 miles) of surveyed line. VLF-EM and soil geochemical surveys were carried out along the surveyed lines. A total of 697 soil samples and 32 rock geochemical samples were collected and analysed for Cu and Mo. In addition, an induced polarization survey, covering approximately 14.8 km. (9 mi.) of grid line, was carried out by Phoenix Geophysics. Geological mapping was also undertaken to verify and extend previous mapping and to obtain further information concerning structure and mineral alteration. The program was completed between July 13 and August 7, 1981.

II. REGIONAL GEOLOGY

Lord (1948) reported that the area of the claims is underlain by Upper Triassic volcanic rocks of the Takla Group, however, recent investigations by Tipper and Richards (1976), indicate that the Driftwood range is underlain by Jurassic volcanic rocks belonging to the Hazelton Group. According to Tipper and Richards, the Hazelton Group in this area consists of reddish coloured basalt to rhyolite, pyroclastic, flow and waterlain volcanic sediments belonging to the Bear Lake subareal facies of the Telkwa formation. The facies ranges from basalt to rhyolite, mainly andesite-dacite, fine to coarse grained lapilli tuff and fine grained breccia. Thick, well bedded rhyolite and rhyodacite breccias are common, but immature, intravolcanic siltstones are rare in the Driftwood Range. The Telkwa formation unconformably overlies the Takla Group whereas it appears to be in fault contact with Paleocene sediments belonging to the Sustut Group situated east of Bear Lake.

Hazelton Group volcanics comprising the Driftwood Range strike northwesterly and dip at moderate angles to the east. They are transected by numerous faults which carry fracture controlled and disseminated Cu-Ag mineralization locally, or acid dykes and plugs belonging to the Kastberg intrusions, believed to be Eocene in age.

III. PROPERTY GEOLOGY

The Bear property encompasses a small, epizonal, composite, mineralized plug belonging to the Kastberg intrusions which has forcefully intruded the Hazelton Group volcanic pile. The intrusive is represented on aeromagnetic map (#52669) as a conspicuous, oval-shaped, magnetic anomaly some 300 gammas in amplitude and 2.5 km. in diameter. However, surface mapping indicates that the intrusive is elongate, north-trending, and exposed over an area of some 1500 by 800 meters. The intrusion is structurally and compositionally complex consisting of an older, marginal, syenodioritic intrusive unit ranging in composition from monzodiorite to quartz-monzo-

diorite, and a younger central, dyke-like, quartz-feldspar porphyry having the composition of granite or rhyolite. The composite intrusion is enveloped by intensely deformed, rhyodacitic, lapilli tuffs that have foliations conforming to intrusive contacts. A contact metamorphic aureole extending some 20 to 150 meters into adjacent volcanic rocks consists of biotite hornfels. Both intrusive and country rocks are intensely fractured along three dominant directions trending N30E, N70E, and N30W. Chalcopyrite and molybdenite mineralization is coincident with intrusive contacts and is structurally controlled. These and other geological observations are further elaborated below.

(i) VOLCANIC STRATIGRAPHY

The volcanic stratigraphy of the property is uncertain due to complex faulting and rapid facies changes. However, a preliminary stratigraphic column would consist of the following units:

Unit 1. Greenschist (metabasalt) tentatively correlated with the Takla Group although it may represent a basic member of the Telkwa formation. It is distinguished by its dark green, very fine grained schistose texture and consists of plagioclase phenocrysts set in a matrix of chlorite, actinolite and opaques.

Unit 2. Crystal-lithic (lapilli) tuff, medium to very coarse grained, poorly sorted, rock fragments are usually stretched, and are set in a medium to fine grained, purple to red matrix. This unit is broadly of dacitic composition.

Unit 3. Volcaniclastic breccias and lithic-arenites (graywackes) are generally mottled, green, brown and grey, well sorted sediments often showing graded bedding, fine laminations, and rounded clasts locally. This unit is broadly rhyodacitic in composition.

Unit 4. Melanophyric flows, are typically grey, massive, fine grained, vesicular to amygdaloidal extrusives of presumed andesitic composition. In thin section it consists of plagioclase phenocrysts and serpentine-opaque pseudomorphs after olivine, set in a very fine grained matrix of plagioclase microlites, opaques. Carbonate amygdules, 1 to 10 mm across, consist of chalcedony, carbonate and minor clay.

Unit 5. Felsophyric (Rhyolite) flows are typically being speckled black, showing porphyritic textures consisting of medium grained orthoclase (10%), oligoclase (20%), quartz (10%), biotite (3%), and hornblende (2%), set in a microcrystalline, granophyric matrix (55%) often containing druses or secondary aggregates of carbonate, chlorite, sericite, quartz and pyrite.

(ii) INTRUSIVE ROCK UNITS

Unit 6. This unit comprises intrusive rocks ranging in composition from monzodiorite (6a), quartz monzodiorite (6b) and plagioclase porphyry (6c) which have been tentatively correlated with the Babine intrusions (Carter, 1974) on the basis of compositional similarities. The monzodiorite (6a) comprises the margin of the intrusion, it is generally a speckled grey colour and usually shows a weak mineral alignment. Microscopically, it shows a medium grained, hypidiomorphic-equigranular texture consisting of blocky andesine (60%), interstitial orthoclase (25%), quartz (5%), biotite flakes (5%), hornblende prisms (5%) with accessory sphene, apatite

and magnetite. Monzodiorite appears to give way to quartz monzodiorite (6b) toward the core and principally differs in its quartz composition which varies from 10 to 20 per cent. Monzodioritic dyke rocks (6c), described as plagioclase porphyry, intrude country rocks in a radial fashion for some distance from the monzodioritic plug.

Unit 7. This unit represents a comagmatic series of hypabyssal monzogranites or rhyolites which appear to have been emplaced along northeasterly trending structures as westerly dipping dykes belonging to the Kastberg intrusions believed to be Eocene in age. Quartz-feldspar porphyry (7a) is most common and comprises a dyke-like intrusion, having an apparent thickness of some 300 meters but rapidly thins and interdigitates with Unit 6 further along strike. Microscopically Unit 7a consists of ovoid quartz, blocky orthoclase, biotite and hornblende phenocrysts set in a variable microcrystalline, aplitic matrix which usually hosts secondary carbonate, chlorite, sericite, quartz and pyrite. Unit 7b is a finer grained, hololeucocratic, beige coloured, quartz porphyry which is most frequently observed to intrude Unit 7a and Unit 5 on the south ridge. Unit 7c comprises aplite veins, rare pegmatite dykes that cut Unit 6 on either side of the main quartz-feldspar porphyry intrusion. These veins are too small to map individually on the present map scale however, they may comprise up to 50% of the host rock in areas of intense veining.

(iii) MINERALIZATION

Copper and molybdenum mineralization occurs as chalcopyrite and molybdenite, usually associated with pyrite in drusy quartz veins, veinlets and fractures, largely associated with the contacts between the monzodiorite (6) and monzogranite (7). However, some disseminated chalcopyrite was observed in Unit 7 along its northeasterly contact with Unit 6. Although mineralization is widespread, it is mostly observed along the ridge zone, where it has a northeasterly strike length of some 1400 meters, coinciding with a large area lying largely east of the base line to about 20E at line 15N. The best mineralization appears centered on line ON-10E where three drill hole intersections yielded average grades of 0.25% Cu and 0.09% MoS₂. (Gidluck 1974)

Since the mineralized zone is largely confined to the east side of the westerly dipping monzogranite intrusion, which is relatively unmineralized, it is convenient to refer to this zone as the 'east' or 'footwall' zone as opposed to the 'west' or 'hangingwall' zone. This apparent asymmetry in mineral grade is a peculiar feature of this deposit. Chalcopyrite and molybdenite mineralization has been observed to extend into hornfelsed, and highly deformed crystal-lithic tuffs of Unit 2 at 10N-19E. In addition, pyrite-chalcopyrite mineralization was observed to extend as far east as 5N-28E and ON-21E in hornfelsed basic volcanic rocks of Unit 1. The area of mineralization has been significantly extended to the east by the 1981 program.

(iv) STRUCTURE

Since Cu-Mo mineralization on the Bear claims is largely confined to fracture fillings the importance of structural control cannot be over emphasized. The following structural observations are pertinent:

1. Primary structural control on the mineralized zone appears to be the north-easterly trending contact zone between intrusive Units 7 and 6.
2. Rock units are cut by several fracture directions as shown in fig. 3, and listed here in order of decreasing prominence: N30°E, N75°E, N40°W and N. These fracture domains also correspond to major lineaments and faults observed elsewhere along the Driftwood Range. (Hunter, 1973)
3. The relative age of fracturing in order of decreasing age appears to be as follows: N40°W, N75°E, and N30°E.
4. Mineralization was observed to occur in all observed fracture directions suggesting that mineralization was introduced after, or during, the last major fracturing event, i.e., N30°E.
5. Mineralized fracture and quartz vein densities are significantly higher along the east zone than along the west zone. The east zone is characterized by veinlet and fracture densities varying from 10 to 60 per meter, with the most dense direction trending northeasterly.
6. Areas of most intense fracturing were observed at 13N-12E, 7.5N-10E and 1N-9E.

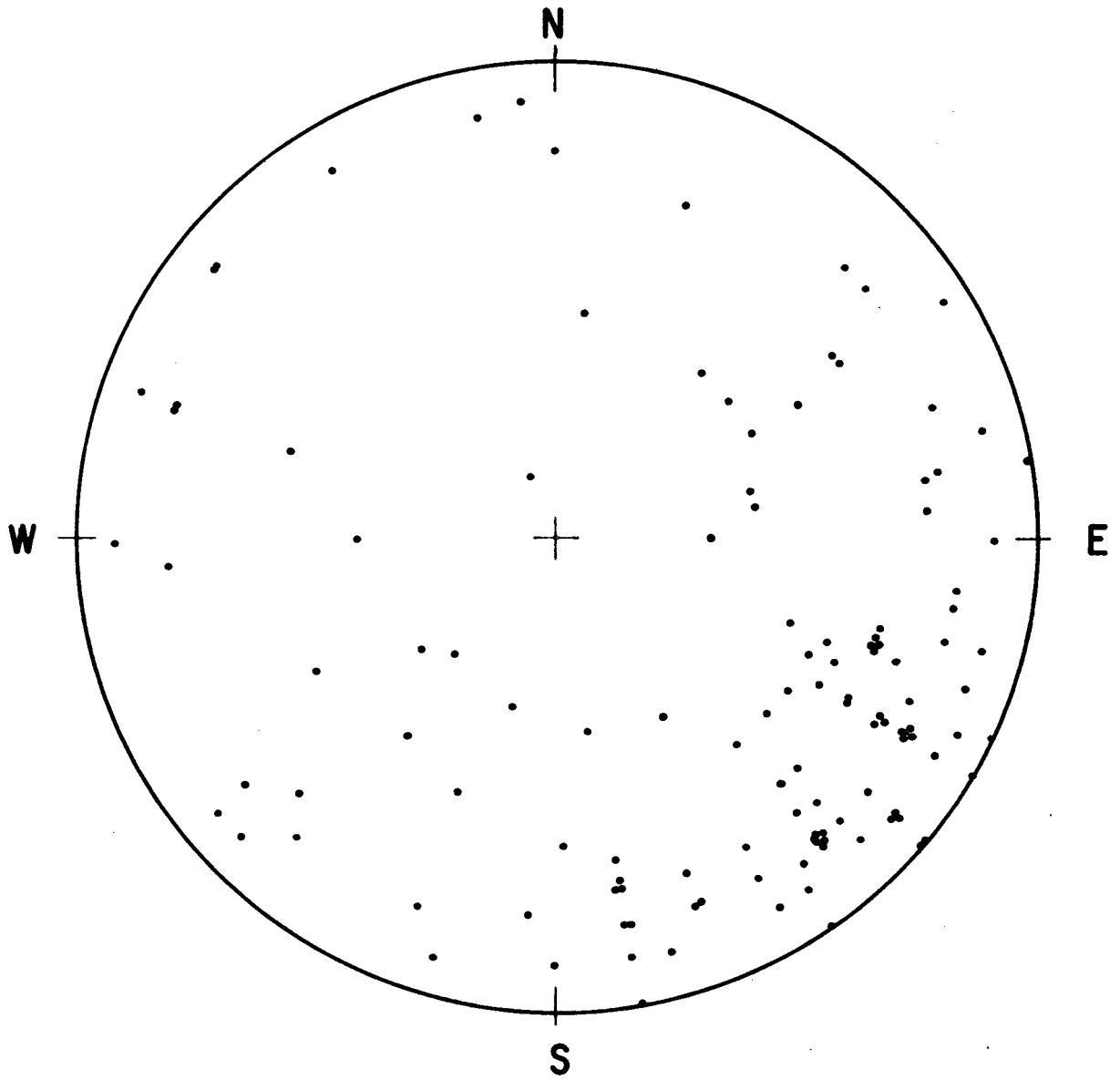
(v) ALTERATION

Mineralized quartz veins show narrow, pink, alteration envelopes locally whereas secondary biotite, along fracture surfaces, is relatively common in monzodiorites east of the central ridge zone. Volcanic rocks adjacent to the intrusion commonly show secondary aggregates, or fracture fillings, consisting of actinolite + chlorite + epidote + carbonate + pyrite. Disseminated pyrite is uncommon and was observed to occur largely in rhyolites of Units 5 and 7b and volcanic greenstones of Unit 1. The distribution of pyrite is largely fracture controlled and invariably associated with chalcopyrite-molybdenite mineralization.

An examination of some 150 thin sections of rock specimens collected from outcrop and drill core indicate that a zone of potassic alteration, consisting of secondary k-feldspar and biotite, is largely coincident with mineralized rocks. However, potassic alteration assemblages have been modified or overprinted by later propylitic or phyllic alteration. That is, secondary biotite pseudomorphs after hornblende are partially replaced by chlorite + epidote + rutile + limonite, in the case of a propylitic overprint, or by sericite in the case of a phyllic overprint. In addition the feldspars were variously altered to clays, sericite or saussuritic minerals. The distribution of alteration assemblages are complex and do not conform to a simple porphyry zonation pattern inasmuch as a phyllic alteration zone is poorly developed.

IV. SOIL GEOCHEMICAL SURVEY

A soil geochemical survey was undertaken in order to establish the extent of Cu-Mo mineralization in areas largely obscured by colluvium. A sampling grid was established consisting of lines spaced 500 feet apart using chain, compass and inclinometer. Samples were collected at 100 foot intervals to depths ranging from 2 to 12



BEAR CLAIMS , 1981
STEREOGRAM OF POLES TO QUARTZ VEINS & FRACTURES

inches, using a grub hoe, assigned standard INCO "SX" identification numbers, and placed in Kraft paper bags. A total of 698 soil samples was shipped to Acme Analytical Laboratories Ltd. for analysis.

At Acme Laboratories, samples were dried, sieved to -80 mesh, and a 0.5 gram sample of the sieved fraction was then digested with 3 ml of 3:1:3 nitric acid to hydrochloric acid to water at 90°C for 1 hour. The partially dissolved sample was diluted with water to 10 mls and analysed for Cu and Mo using an atomic absorption photo-spectrometer. Analytical results are listed in appendix A.

Samples collected from the Bear claims are typical azonal, alpine soils, consisting largely of colluvial sand and silt, interspersed with angular fragments of local bedrock. Soils vary in colour from shades of brown to red and appear to have developed crude soil horizons ranging from an organic-rich surface horizon overlying a relatively thick, highly oxidized B horizon. Four soil profiles taken from the lower eastern grid are shown in table 2.

In general, table 2 indicates that near surface soil samples are indicative of mineralized bedrock. Copper values improve with depth, however, molybdenum appears to be locally enriched in the organic-rich horizon relative to the B or C horizon. Local Mo enhancement is probably due to accumulation by adsorption to decaying organic debris.

Table 2 Soil Profiles - Bear Claims Concentrations

<u>STATION</u>	<u>SAMPLE #</u>	<u>HORIZON</u>	<u>DEPTH</u> (inches)	<u>Mo</u> (ppm)	<u>Cu</u> (ppm)	<u>Ag</u> (ppm)	<u>Au</u> (ppb)
10N-30E	SX86693	A	1-6"	35	174	0.4	10
	-94	B	7-40	28	56	0.3	5
	-95	C	41+	23	335	0.1	5
10N-21E	SX88697	A	1-6	46	74	0.6	5
	-98	B	7-55	104	700	0.2	10
	-99	C	56+	86	720	0.5	5
0N26.5E	SX86690	A	1-6	31	500	1.1	10
	-91	B	7-30	25	750	0.7	10
	-92	C	31+	30	1200	1.1	10
5S-26.5E	SX86687	A	1-15	4	22	0.4	5
	-88	B	16-40	7	53	0.5	10
	-89	C	41+	6	105	0.1	5

Bear soils show a considerable range in metal concentration as follows: Copper - 10,000 to 4 ppm, (average 15 ppm), and Molybdenum - 1260 to 1 ppm, average 140 ppm. Probability plots indicate that metal concentrations may be classified into the following:

	<u>Copper</u> (ppm)	<u>Molybdenum</u> (ppm)
background	<25	<3
anomalous	25 to 450	3 to 300
highly anomalous	450 to 4000	300 to 600
extremely anomalous	>4000	>600

Highly anomalous, coincident, Cu and Mo soil concentrations occur along the east zone in areas largely underlain by monzodiorite. The axis of the highly anomalous zone appears arcuate in form, extending from 15S-5E to 25N-11E, with a sharp flexure occurring at about 5N-17E. Weaker soil anomalies occur in monzodiorites of the west zone centered at 7N-4W. Another anomaly located in a cirque basin centered on 20S-15E, is probably due to transported colluvium derived from talus fines to the west.

V. VLF ELECTROMAGNETIC SURVEY

A VLF-EM survey was done by Canadian Nickel personnel with a Crone 'Radem' EM receiver which was used to measure the field strength and tilt angle of the total resultant electromagnetic field generated by the transmitting station in Seattle, Washington (NPG - 18.6 khz). Readings recorded at 100 ft. intervals on lines 500 ft. apart are shown on Map #3 which also shows profiles of the tilt angles and interpreted conductor axes.

The grid is in an area of severe and often abrupt topographical variations. The major effect can be seen in the overall tendency of left readings on the east, and right on the west sides of the mountain. This feature plus local topographical changes are the expected cause of most of the conductor axes shown on the plan. One clear exception, as can be seen from the increased field strength readings, is the conductor striking SE and extending from 25N/5E to 10S/23E. The broad nature of the crossovers is typical of conductors due to fault zones and, in fact the northern and southern sections agree well with mapped faults which are, therefore, suggested to be segments of one continuous zone which can not be traced geophysically past 10S.

VI. INDUCED POLARIZATION SURVEY

An IP survey was carried out under contract by Phoenix Geophysics Limited with the assistance of two Canadian Nickel field crew. Frequency domain equipment was used (0.31 and 5.0 hz) in a 300 ft. dipole-dipole array and readings were taken every 300 ft. using three separations of current and potential electrode pairs.

The survey is an extension and/or fill-in of the limited coverage obtained from a prior (1973) survey. Coverage is now available on all 500 ft. lines (as permitted by access). Two north-south lines were included to help the interpretation. The 14.8 km of additional data are shown together with the earlier information on 13 pseudo section plots. Two plans are also included showing contoured resistivities and frequency effects for $n = 1$ values. The interpreted anomalies are shown on the sections and plans.

An examination of the contoured data and interpreted anomalies readily reveals an elliptical pattern. The central area is marked by particularly low frequency effects and moderate resistivities. This core is almost completely enclosed by moderately to very high frequency effects and depressed resistivities. The interpreted anomalous areas which reflect an assessment of all three separations show a similar, although locally displaced, closure. The apparent exception to this closure, at the north end

of the property, may well have been eliminated had it been possible to read line 30N. Alternatively, it should be noted that the mapped and EM interpreted fault cuts through this same gap and it could have caused a displacement in the mineralization.

The pattern suggested by the IP survey is that of a classical porphyry situation. The anomalous frequency effects and associated resistivity decreases would be readily explained by disseminated sulphides in an altered host rock or by a fractured rock with sulphide emplacement along the fractures.

VII. Conclusions

The 1981 surface exploration program has, by extending the previous 1973-74 exploration grid, resulted in the following general observations.

1. A biotite hornfels metamorphic aureole extends some 20 to 150 meters beyond the monzodiorite intrusion.
2. Cu-Mo mineralization has been extended further eastward into hornfelsed tuffs adjacent to the monzodiorite intrusion.
3. The previously elusive pyrite zone has been found to occur in prophyritic volcanic rocks, some 400 meters to the east of the mineralized ridge zone.
4. Soil geochemical sampling indicates that the best mineralization occurs east of the ridge zone and extends some 1200 X 250 meters in an arcuate fashion.
5. Mineralized fracture and vein densities are significantly higher to the east of the monzodiorite intrusion than to the west. The east zone is characterized by densities from 10 to 60 per meter, with the most prominent direction trending northeasterly.
6. Cu-Mo mineralization is also coincident with a zone of potassic alteration, typified by biotite fracture-fills and k-feldspar salvages on quartz veinlets. However, potassic alteration assemblages have been overprinted by later propylitic and phyllic alteration.
7. The VLF electromagnetic survey confirmed a mapped fault, the presence of which should be carefully considered in any subsequent drill plans.
8. The IP survey clearly indicates an anomalous zone about the intrusion. Sulphide filled fractures or disseminated sulphides in an altered host would readily explain the IP results and this data should therefore form an excellent guide for drill target selection when considered in conjunction with the geochemical and geological information.

VIII STATEMENT OF EXPENDITURES 1981

BEAR LAKE PROGRAM

BE, BW AND BEAR MINERAL CLAIMS

Geological Surveys

Labour (salaries and benefits)

P. Peto - Feb. 3, 24; March 6; July 14-24, 30, 31; Aug. 1-6; Sept. 8-25	36 days @ 181.00	\$6,516.00	
R. Arthur - July 31; Aug. 1-7	8 days @ 95.00	760.00	
A. Tworo - Aug. 1-7	7 days @ 67.00	469.00	
H. Butler - Sept. 22, 23	2 days @ 238.00	476.00	
R. Koronovich (drafting)	3 days @ 170.00	510.00	\$ 8,731.00

Personnel Expenses

Travel and accommodations		995.00	
Supplies		1,271.00	
Fuel		637.00	2,903.00

Equipment Rental (trucks, portable buildings on job site)			690.00
---	--	--	--------

Aircraft			6,408.00
----------	--	--	----------

Assays (rock) Mo,Cu,Ag,Au - 32 @ 8.50			264.00
---------------------------------------	--	--	--------

Total Geological			\$18,996.00
------------------	--	--	-------------

Geophysical Surveys

Labour (salaries and benefits)

J. Neufeld - July 13-22; Aug. 1-7	17 days @ 71.00	1,207.00	
M. Nitins - July 14-31; Aug. 1-7	25 days @ 78.00	1,950.00	
R. Arthur - July 13-22	10 days @ 95.00	950.00	
A. Tworo - July 13-30	18 days @ 67.00	1,206.00	
W. Marsaw (drafting)	1 day @ 155.00	155.00	
H. Humphreys (drafting)	2 days @ 64.00	128.00	
R. Koronovich (drafting)	6.5 days @ 170.00	1,105.00	6,701.00

Personnel Expenses

Travel and accommodations		754.00	
Supplies		690.00	
Fuels		107.00	1,551.00

Equipment Rental (trucks, portable buildings on job site)			541.00
---	--	--	--------

Contract Geophysics - Phoenix Geophysics Ltd. (invoice attached)			8,634.15
---	--	--	----------

Aircraft			4,474.00
----------	--	--	----------

Total Geophysical			\$21,901.15
-------------------	--	--	-------------

Geochemical Survey

Labour (salaries and benefits)

R. Arthur - July 23-30	8 days @ 95.00	760.00	
J. Neufeld - July 23-31	9 days @ 71.00	639.00	
A. Tworo - July 31	1 day @ 67.00	67.00	
R. Koronovich (drafting)	7 days @ 170.00	<u>1,190.00</u>	\$ 2,656.00

Personnel Expenses

Travel and accommodations		349.00	
Supplies		<u>394.00</u>	743.00

Equipment Rental (trucks, portable buildings on job site) 180.00

Aircraft 1,210.00

Assays - Geochemical (soil) Mo,Cu,Ag,Au - 39 @ \$6.40			
Mo,Cu - 359 @ \$2.65			
			<u>1,200.95</u>

Total Geochemical \$ 5,989.95

TOTAL \$46,887.10

IM/cb
October 20, 1981



PHOENIX Geophysics Limited

200 YORKLAND BLVD., WILLOWDALE, ONTARIO, CANADA M2J 1R5

TELEPHONE (416) 493-6350
Telex: 06-986856
Cable: PHEXCO TORONTO

I N V O I C E

August 17, 1981
INVOICE NO. 2621

Canadian Nickel Company Limited,
80 - 10551 Shellbridge Way,
Richmond, B.C.
V6X 2W9

Attention: Dr. Peter Peto

REFERENCE: Geophysical Survey - Contract PV-1107
IP and Resistivity, Bear Lake, B.C.

PERIOD: July 22, 1981 - August 6, 1981

CREW: D. Daggett, B. Polzer

12 Operating Days	@ \$550.00/day	\$6,600.00
½ Bad Weather Days	@ \$285.00/day	142.50
2 Travel Days	@ \$285.00/day	570.00
1½ Standby Days	@ \$285.00/day	427.50

EXPENSES:

Airfares	\$435.17
Taxis	9.00
Freight and Insurance	298.35
Telephone	35.00
	777.52
+ 15%	116.63
	894.15

INVOICE NO.	PAY VENDOR	PURCHASE ORDER
GROSS VALUE # 8634.15	DISCOUNT VALUE	DATE 09-11-81
ACT OR W.O. NUMBER 60808	14040	TAX
SOURCE CODE 9960	CLASS OF EXP 447	AMOUNT 894.15
GOODS REC'D. D.H.G.	DATE REC'D. SEP 11 1981	PAYMENT APPROV. D.H.G.

\$7,740.00

8634.15

E. J. Dulich

60808-14040-447

PHOENIX GEOPHYSICS LIMITED

*OK
B.H. Keane*

Sept 18

REFERENCES

- Carter, N. (1974), Geology & Geochronology of Porphyry Copper & Molybdenum Deposits in west-central B.C. (unpublished PhD. Thesis U. of B.C.)
- Gidluck, M. J. (1973), Report on Geological, Geochemical & Geophysical Surveys Conducted on the Bear Claims A, B & C - 1973; B.C. Dept. of Mines Assessment Report #5236.
- Gidluck, M. J. (1974a), Diamond Drill Logs on Bear Claims Groups A, B, & C, 1974; B.C. Dept. of Mines Assessment Report #5269.
- (1974b), Canadian Nickel Co., 1974, B.C. Annual Report 93L, 93M, 94D, 103I, 103P (company report).
- (1977), Canadian Nickel Co., Driftwood Project 1972-1977, Bear, Spur Properties & Local Regional Exploration in Bear Lake Area (company report).
- Hunter, E. N. (1973), Geological Report on the Bear Property (company report).
- Lord, C. S. (1948), McConnell Creek Map-area, Cassiar District, B.C.; G.S.C. Memoir 251.
- Peto, P. (1980), Geochemical Orientation Survey of the Bear Claims, Group A (company report).
- Tipper, H. W. & Richards, T. A. (1976), Jurassic Stratigraphy & History of North-central B.C.; G.S.C. Bulletin 270.

AUTHOR'S QUALIFICATIONS

I, Peter S. Peto, hereby certify as follows:

I am a graduate geologist with B.Sc. and M.Sc. degrees from the University of Alberta and a Ph.D. degree from the University of Manchester in England.

I am a registered member, in good standing, of the Geological Association of Canada.

I am presently employed in the capacity of project geologist with Canadian Nickel Company Limited in the Vancouver district office.

I have been practicing my profession since 1970.

I have prepared this work assessment report on the work performed by myself, Alex Tworo and Robert Arthur, as agents for Canico.

Respectfully submitted,

Peter Peto

Peter Peto, Ph.D.

September 30, 1981



CERTIFICATE

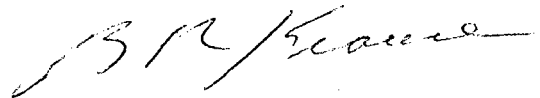
I, Barry Russell Krause of Sudbury, Ontario hereby certify that:

I am a geophysicist employed by Inco Metals Company as Manager, Exploration Geophysics.

I am a graduate of the University of Toronto having received a BSc in 1958 in Engineering Physics (Geophysics Option) and an MA in Physics in 1960.

I am a certified member of the Association of Professional Engineers of the Province of Ontario.

The Induced Polarization survey reported herein was done following my specifications and I prepared that part of the text of the report relating to it, as well as to the VLF-EM surveys.



B. R. Krause
P. Eng.



To: Canadian Nickel Co. Ltd.,
80 - 10551 Shellbridge Way,
Richmond, B.C.
V6X 2W9
Attn.: Mr. P. Peto
Mr. E.J. Debicki

File No. 81-1039

Type of Samples Rock, Soil

GEOCHEMICAL ASSAY CERTIFICATE

Disposition

Project: Bear Lake c.c. Mr. J.F. Church, Copper Cliff, Ont.

Acct.No.: 60808

SAMPLE No.		Mo	Cu	Ag	Au								
1	RX 042742	R	1	13	.1	.005							1
	042743		1	2	.1	.005							2
	042744		1	6	.1	.005							3
	042745		3	15	.1	.005							4
	042746		6	172	.1	.010							5
	042747		1	45	.1	.005							6
	042748		1	37	.2	.005							7
	042749		6	93	.2	.010							8
	042750		6	72	.1	.005							9
	042751		1	25	.1	.005							10
	042752		3	18	.1	.005							11
	042753		1	2	.1	.005							12
	042754		2	2	.1	.005							13
	042755		1	2	.1	.005							14
	042756		1	53	.1	.005							15
	042757		2	36	.2	.005							16
	042758		1	15	.2	.005							17
	042759		1	50	.2	.010							18
	042760		1	6	.1	.005							19
	042761		1	2	.1	.005							20
	042762		1	2	.1	.005							21
	042763		1	47	.1	.005							22
	042764		6	22	.2	.005							23
	042765		3	2	.1	.005							24
	042766		1	10	.1	.005							25
	042767		1	2	.1	.005							26
	042069		172	225	3.2	.015							28
	042070		1	40	.1	.005							29
	042071		3	18	.2	.005							30
	042072		4	35	.1	.005							31
	042073		2	275	.5	.005							32
	RX 042074	R	4	42	.2	.005							33
	SX 066061	S	29	230	.4	.005							35
	066062		23	310	.4	.005							36
	066063		18	132	.3	.005							37
	066064		33	480	.2	.015							38
	SX 066065	S	46	640	.3	.010							39
													40

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 13, 1981

DATE REPORTS MAILED Aug. 21, 1981

ASSAYER Dean Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Canadian Nickel Co. Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

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

phone: 253 - 3158

File No. 81-1039

Type of Samples Rock & So

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

2

SAMPLE No.		Mo	Cu	Ag	Au														
SX 066066		36	630	.2	.010														1
066067		37	128	.1	.005														2
SX 066068		68	335	.3	.005														3
																			4
SX 086682		8	104	.5	.010														5
086683		3	17	.1	.005														6
086684		3	29	.1	.005														7
086685		5	59	.1	.005														8
086686		6	8	.1	.005														9
086687		4	22	.4	.005														10
086688		7	53	.5	.010														11
086689		6	105	.1	.005														12
086690		31	500	1.1	.010														13
086691		25	750	.7	.010														14
086692		30	1200	1.1	.010														15
086693		35	174	.4	.005														16
086694		28	56	.3	.005														17
086695		23	335	.1	.005														18
086696		34	320	.5	.005														19
086697		46	74	.6	.005														20
086698		104	700	.2	.010														21
086699		86	720	.5	.005														22
SX 086700		122	2700	6.5	.040														23
																			24
SX 086901		4	43	.2	.010														25
086902		19	191	2.2	.095														26
086903		8	153	.4	.080														27
086904		7	290	1.0	.180														28
086905		18	800	5.3	1.630														29
086906		11	128	.9	.150														30
086907		9	77	.3	.035														31
086908		6	120	.5	.035														32
086909		13	128	.5	.005														33
086910		34	460	4.5	.020														34
SX 086911	S	9	205	5.8	.075														35
																			36
RX 042075	R	5	90	.2	.005														37
042076		2	600	1.3	.005														38
042077		3	39	.1	.005														39
RX 042078	R	3	22	.3	.005														40

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 13, 1981

DATE REPORTS MAILED Aug. 21, 1981

ASSAYER *D. Toye*

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Canadian Nickel Co. Ltd.,
80 - 10551 Shellbridge Way,
Richmond, B.C.
V6X 2W9
Attn.: Mr. E.J. Debicki

File No. 81-0946

c.c. Mr. J.F. Church, Copper Cliff, Ontario

Type of Samples Soil

GEOCHEMICAL ASSAY CERTIFICATE

Disposition

Property : Bear Claims

1

SAMPLE No.	Mo	Cu																			
SX 087001	1	44																			1
087002	1	26																			2
087003	1	25																			3
087004	2	31																			4
087005	1	64																			5
087006	1	48																			6
087007	2	28																			7
087008	1	107																			8
087009	1	16																			9
087010	1	42																			10
087011	1	24																			11
087012	1	37																			12
087013	1	24																			13
087014	1	6																			14
087015	1	29																			15
087016	5	65																			16
087017	43	430																			17
087018	3	112																			18
087019	21	280																			19
087020	6	370																			20
087021	1	125																			21
087022	1	95																			22
087023	1	73																			23
087024	1	53																			24
087025	1	30																			25
087026	1	28																			26
087027	1	55																			27
087028	1	52																			28
087029	1	75																			29
087030	6	44																			30
087031	4	17																			31
087032	3	25																			32
087033	1	27																			33
087034	1	32																			34
087035	3	100																			35
087036	8	310																			36
SX 087037	35	840																			37
																					38
																					39
																					40

All reports are the confidential property of clients
All results are in PPM.
DIGESTION:.....
DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 5, 1981
DATE REPORTS MAILED Aug. 12, 1981
ASSAYER *Dean Toye*

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Canadian Nickel Co. Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

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

phone: 253 - 3158

81-0946

File No. _____

Type of Samples _____

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

2

SAMPLE No.	Mo	Cu																			
SX 087038	28	750																			1
087039	2	63																			2
087040	6	101																			3
087041	2	22																			4
087042	1	14																			5
087043	5	21																			6
087044	4	19																			7
087045	2	12																			8
087046	1	10																			9
087047	3	16																			10
087048	4	10																			11
087049	1	13																			12
087050	5	24																			13
087051	71	58																			14
087052	58	550																			15
087053	3	31																			16
087054	1	5																			17
087055	2	10																			18
087056	2	12																			19
087057	1	7																			20
087058	1	6																			21
087059	1	8																			22
SX 087060	1	7																			23
																					24
SX 087061	14	77																			25
087062	8	51																			26
087063	22	138																			27
087064	6	13																			28
087065	7	19																			29
087066	3	18																			30
087067	4	23																			31
087068	3	17																			32
087069	3	16																			33
087070	3	24																			34
087071	5	37																			35
087072	3	25																			36
087073	2	20																			37
SX 087074	9	27																			38
																					39
																					40

All reports are the confidential property of clients
 All results are in PPM.
 DIGESTION:.....
 DETERMINATION:.....

DATE SAMPLES RECEIVED: Aug. 5, 1981
 DATE REPORTS MAILED: Aug. 12, 1981
 ASSAYER D. Toye

DEAN TOYE, B.Sc.
 CHIEF CHEMIST
 CERTIFIED B.C. ASSAYER



To: Canadian Nickel Co. Ltd.,

ACME ANALYTICAL LABORATORIES LTD

Assaying & Trace Analysis

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

phone: 253 - 3158

File No. 81-0946

Type of Samples _____

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

3

SAMPLE No.	Mo	Cu								
SX 087075	11	35								1
087076	28	71								2
087077	86	210								3
087078	122	370								4
087079	187	660								5
087080	230	640								6
087081	193	480								7
087082	160	530								8
087083	110	440								9
087084	163	640								10
087085	57	470								11
087086	30	415								12
087087	107	1600								13
087088	33	320								14
087089	26	380								15
087090	185	820								16
087091	40	450								17
087092	2	18								18
087093	1	40								19
087094	2	44								20
087095	2	12								21
087096	1	21								22
087097	1	17								23
087098	1	18								24
087099	1	17								25
SX 087100	1	18								26
SX 087101	1	33								28
087102	1	13								29
087103	1	18								30
087104	1	14								31
087105	2	22								32
087106	1	24								33
087107	1	47								34
087108	3	85								35
087109	30	139								36
SX 087110	10	250								37
										38
										39
										40

All reports are the confidential property of clients

All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 5, 1981

DATE REPORTS MAILED Aug. 12, 1981

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Canadian Nickel Co. Ltd.,

File No. 81-0946

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

4

SAMPLE No.	Mo	Cu																			
SX 087111	16	250																			1
087112	28	83																			2
087113	78	167																			3
087114	44	99																			4
087115	20	270																			5
087116	16	150																			6
087117	29	370																			7
087118	66	1700																			8
087119	99	340																			9
087120	62	630																			10
087121	140	460																			11
087122	137	2600																			12
087123	52	240																			13
087124	210	1600																			14
087125	163	1600																			15
087126	230	1400																			16
087127	240	690																			17
087128	84	200																			18
087129	165	1200																			19
SX 087130	230	1110																			20
																					21
SX 087131	230	1850																			22
087132	18	400																			23
087133	325	1530																			24
087134	14	87																			25
087135	13	18																			26
087136	19	19																			27
087137	53	65																			28
087138	20	25																			29
087139	29	30																			30
087140	14	73																			31
087141	18	66																			32
087142	32	110																			33
087143	10	15																			34
087144	20	81																			35
087145	46	14																			36
087146	47	29																			37
SX 087147	74	185																			38
																					39
																					40

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 5, 1981

DATE REPORTS MAILED Aug. 12, 1981

ASSAYER *Dean Toye*

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



GEOCHEMICAL ASSAY CERTIFICATE

5	SAMPLE No.	Mo	Cu									
SX	087148	23	18									1
	087149	51	44									2
	087150	6	41									3
	087151	10	38									4
	087152	6	32									5
	087153	5	24									6
	087154	5	11									7
	087155	8	22									8
	087156	13	36									9
	087157	23	54									10
	087158	40	75									11
	087159	96	200									12
	087160	560	760									13
	087161	320	800									14
	087162	70	280									15
	087163	96	210									16
	087164	79	170									17
	087165	20	86									18
	087166	17	325									19
	087167	19	260									20
	087168	19	160									21
	087169	9	80									22
	087170	13	375									23
	087171	6	75									24
	087172	9	58									25
	087173	6	144									26
	087174	32	50									27
	087175	27	250									28
	087176	38	70									29
	087177	62	92									30
	087178	93	1700									31
	087179	153	500									32
SX	087180	17	112									33
												34
SX	087181	132	290									35
	087182	9	65									36
	087183	11	67									37
	087184	6	43									38
SX	087185	2	20									39
												40

All reports are the confidential property of clients
 All results are in PPM.

DIGESTION:

DETERMINATION:

DATE SAMPLES RECEIVED Aug. 5, 1981

DATE REPORTS MAILED Aug. 12, 1981

ASSAYER Dean Toye

DEAN TOYE, B.Sc.
 CHIEF CHEMIST
 CERTIFIED B.C. ASSAYER



To: Canadian Nickel Co. Ltd.,

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

phone: 253 - 3158

81-0946

File No. _____

Type of Samples _____

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

6

SAMPLE No.	Mo	Cu																			
SX 087186	4	43																			1
087187	2	20																			2
087188	3	48																			3
087189	2	15																			4
087190	1	6																			5
087191	5	19																			6
087192	2	17																			7
087193	2	50																			8
087194	1	24																			9
087195	1	24																			10
087196	1	11																			11
087197	3	23																			12
087198	3	47																			13
087199	2	41																			14
087200	3	51																			15
087201	3	25																			16
087202	2	39																			17
087203	1	23																			18
087204	2	6																			19
087205	4	64																			20
087206	7	98																			21
087207	11	20																			22
087208	6	30																			23
087209	16	104																			24
SX 087210	8	56																			25
SX 087211	8	68																			26
087212	6	107																			27
087213	20	103																			28
087214	14	40																			29
087215	153	1250																			30
087216	30	111																			31
087217	69	220																			32
087218	33	113																			33
087219	95	290																			34
SX 087220	91	815																			35
SX 087221	98	280																			36
SX 087222	52	240																			37
																					38
																					39
																					40

All reports are the confidential property of clients

All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 5, 1981DATE REPORTS MAILED Aug. 12, 1981

ASSAYER

D. Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Canadian Nickel Co. Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

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

phone: 253 - 3158

File No. 81-0946

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

7

SAMPLE No.	Mo	Cu																			
SX 087223	42	280																			1
087224	29	400																			2
087225	24	56																			3
087226	39	176																			4
087227	178	430																			5
087228	43	51																			6
087229	950	8000																			7
SX 087230	425	4130																			8
																					9
SX 087231	195	3000																			10
087232	94	720																			11
087233	154	415																			12
087234	41	107																			13
087235	12	85																			14
087236	16	84																			15
087237	28	178																			16
087238	117	820																			17
087239	23	172																			18
087240	18	78																			19
087241	2	9																			20
087242	71	600																			21
087243	4	22																			22
087244	49	29																			23
087245	47	45																			24
087246	26	42																			25
087247	24	63																			26
087248	10	86																			27
087249	24	57																			28
087250	39	120																			29
087251	56	230																			30
087252	169	1150																			31
087253	128	93																			32
087254	19	43																			33
087255	113	980																			34
087256	30	440																			35
087257	138	365																			36
087258	110	115																			37
087259	90	1100																			38
SX 087260	106	151																			39
																					40

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 5, 1981

DATE REPORTS MAILED Aug. 12, 1981

ASSAYER *Dean Toye*

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Canadian Nickel Co. Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

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

phone: 253 - 3158

File No. 81-0946

Type of Samples _____

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

8

SAMPLE No.	No	Cu																			
SX 087261	97	210																			1
087262	26	130																			2
087263	12	165																			3
087264	9	38																			4
087265	4	25																			5
087266	9	36																			6
087267	7	73																			7
087268	28	112																			8
087269	25	54																			9
087270	25	70																			10
087271	14	126																			11
087272	98	2300																			12
087273	27	58																			13
087274	34	1900																			14
087275	240	1800																			15
087276	120	270																			16
087277	490	2700																			17
087278	680	770																			18
087279	26	10000																			19
SX 087280	57	200																			20
SX 087281	11	330																			21
087282	10	32																			22
087283	11	34																			23
087284	9	79																			24
087285	7	57																			25
087286	3	22																			26
087287	19	89																			27
087288	30	43																			28
087289	2	41																			29
087290	6	140																			30
087291	9	130																			31
087292	18	300																			32
087293	14	240																			33
087294	15	35																			34
087295	14	77																			35
087296	10	104																			36
SX 087297	10	135																			37
																					38
																					39
																					40

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 5, 1981

DATE REPORTS MAILED Aug. 12, 1981

ASSAYER *D. Toye*

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Canadian Nickel Co. Ltd.,

Assaying & Trace Analysis

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

phone: 253 - 3158

File No. 81-0946

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Mo	Cu																			
SX 087298	12	70																			1
087299	13	80																			2
087300	24	168																			3
087301	20	156																			4
087302	4	28																			5
087303	8	88																			6
087304	9	84																			7
087305	17	275																			8
087306	43	1450																			9
087307	27	480																			10
087308	8	43																			11
087309	9	70																			12
087310	10	56																			13
087311	5	68																			14
087312	24	56																			15
087313	42	405																			16
087314	81	220																			17
087315	93	700																			18
087316	250	3100																			19
087317	1260	7100																			20
087318	710	8750																			21
087319	470	7400																			22
SX 087320	510	5800																			23
																					24
SX 087321	630	5600																			25
087322	615	5700																			26
087323	640	6150																			27
087324	700	5750																			28
087325	54	1000																			29
087326	198	3800																			30
087327	334	2450																			31
087328	50	420																			32
087329	13	505																			33
087330	1	116																			34
087331	15	70																			35
087332	4	58																			36
087333	26	450																			37
SX 087334	6	128																			38
																					39
																					40

All reports are the confidential property of clients
 All results are in PPM.
 DIGESTION:.....
 DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 5, 1981
 DATE REPORTS MAILED Aug. 12, 1981
 ASSAYER *Dean Toye*
 DEAN TOYE, B.Sc.
 CHIEF CHEMIST
 CERTIFIED B.C. ASSAYER



To: Canadian Nickel Co. Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

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

phone: 253 - 3158

File No. 81-0946

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

10

SAMPLE No.	Mo	Cu																			
SX 087335	10	60																			1
087336	9	35																			2
087337	4	42																			3
087338	9	110																			4
087339	3	41																			5
087340	4	106																			6
087341	2	76																			7
087342	2	62																			8
087343	1	43																			9
087344	4	35																			10
087345	7	102																			11
087346	6	33																			12
087347	16	215																			13
087348	14	320																			14
087349	17	275																			15
SX 087350	61	370																			16
SX 087351	40	340																			17
087352	30	255																			18
087353	58	315																			19
087354	19	126																			20
087355	70	156																			21
087356	48	465																			22
087357	570	4500																			23
087358	850	2550																			24
087359	430	2150																			25
087360	89	545																			26
087361	730	2050																			27
087362	770	1800																			28
087363	115	880																			29
087364	43	360																			30
087365	28	215																			31
087366	15	74																			32
087367	12	104																			33
087368	19	92																			34
087369	17	128																			35
SX 087370	26	166																			36
																					37
																					38
																					39
																					40

All reports are the confidential property of clients
 All results are in PPM.
 DIGESTION:.....
 DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 5, 1981
 DATE REPORTS MAILED Aug. 12, 1981
 ASSAYER *Dean Toye*

DEAN TOYE, B.Sc.
 CHIEF CHEMIST
 CERTIFIED B.C. ASSAYER



To: Canadian Nickel Co. Ltd.,

Assaying & Trace Analysis

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

phone: 253 - 3158

File No. 81-0946

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

11

SAMPLE No.	Mo	Cu																			
SX 087371	22	198																			1
087372	19	240																			2
087373	15	250																			3
087374	11	114																			4
087375	21	62																			5
087376	8	34																			6
087377	1	19																			7
087378	2	27																			8
087379	5	64																			9
087380	1	16																			10
087381	3	39																			11
087382	6	47																			12
087383	2	9																			13
087384	5	19																			14
087385	1	17																			15
087386	4	19																			16
087387	2	25																			17
087388	3	88																			18
087389	1	94																			19
087390	1	54																			20
087391	1	70																			21
087392	4	72																			22
087393	1	130																			23
087394	2	94																			24
087395	6	31																			25
087396	3	106																			26
087397	3	104																			27
087398	5	102																			28
087399	5	104																			29
SX 087400	11	205																			30
																					31
SX 087423	25	650																			32
087424	16	182																			33
087425	12	630																			34
087426	9	152																			35
087427	9	132																			36
087428	92	495																			37
087429	70	980																			38
SX 087430	162	1550																			39
																					40

All reports are the confidential property of clients
 All results are in PPM.
 DIGESTION:.....
 DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 5, 1981
 DATE REPORTS MAILED Aug. 12, 1981
 ASSAYER *Dean Toy*
 DEAN TOYE, B.Sc.
 CHIEF CHEMIST
 CERTIFIED B.C. ASSAYER



To Canadian Nickel Co. Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

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

phone: 253 - 3158

File No. 81-0946

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

12

SAMPLE No.	Mo	Cu													
SX 087431	196	965													1
087432	195	1250													2
087433	183	425													3
087434	260	1150													4
087435	147	775													5
087436	101	580													6
087437	111	630													7
087438	240	200													8
087439	174	965													9
087440	182	1100													10
087441	96	255													11
087442	520	255													12
087443	140	200													13
087444	92	1250													14
087445	45	405													15
087446	22	98													16
087447	16	38													17
087448	5	82													18
087449	7	29													19
SX 087450	8	19													20
															21
SX 087451	10	19													22
087452	13	240													23
087453	5	96													24
087454	11	186													25
087455	14	21													26
087456	4	16													27
087457	7	10													28
087458	1	16													29
087459	1	23													30
087460	2	9													31
087471	1	12													32
087472	3	34													33
087473	2	132													34
087474	7	112													35
087475	4	70													36
087476	11	136													37
SX 087467	4	68													38
															39
															40

All reports are the confidential property of clients
All results are in PPM.

DISGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 5, 1981

DATE REPORTS MAILED Aug. 12, 1981

ASSAYER

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Canadian Nickel Co. Ltd.,

File No. 81-0946

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

13

SAMPLE No.	Mo	Cu																			
SX 087468	17	156																			1
087469	18	190																			2
087470	19	215																			3
087471	57	170																			4
087472	126	100																			5
087473	45	250																			6
087474	132	560																			7
087475	118	485																			8
087476	260	1750																			9
087477	540	2750																			10
087478	1100	2350																			11
087479	760	2300																			12
087480	840	2500																			13
087481	980	1950																			14
087482	1040	2350																			15
087483	340	1900																			16
087484	33	405																			17
087485	52	390																			18
087486	32	240																			19
087487	1	100																			20
087488	1	70																			21
087489	2	106																			22
087490	4	70																			23
087491	2	84																			24
087492	3	66																			25
087493	1	90																			26
087494	2	335																			27
087495	5	174																			28
087496	2	154																			29
087497	3	96																			30
087498	5	140																			31
087499	6	138																			32
SX 087500	6	82																			33
																					34
SX 087501	24	270																			35
087502	31	164																			36
087503	7	90																			37
SX 087504	15	158																			38
																					39
																					40

All reports are the confidential property of clients
 All results are in PPM.
 DIGESTION:.....
 DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 5, 1981
 DATE REPORTS MAILED Aug. 12, 1981
 ASSAYER *Dean Toye*

DEAN TOYE, B.Sc.
 CHIEF CHEMIST
 CERTIFIED B.C. ASSAYER



To: Canadian Nickel Co. Ltd.,

File No. 81-0946

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

14

SAMPLE No.	Mo	Cu																			
SX 087505	8	56																			1
087506	14	152																			2
087507	46	235																			3
087508	44	315																			4
087509	22	174																			5
087510	19	265																			6
087511	43	1550																			7
087512	8	150																			8
087513	22	745																			9
087514	29	280																			10
087515	6	92																			11
087516	12	136																			12
087517	11	170																			13
087518	21	78																			14
087519	66	250																			15
087520	14	245																			16
087521	13	88																			17
087522	65	132																			18
087523	2	62																			19
087524	240	1300																			20
087525	66	445																			21
087526	55	128																			22
087527	26	112																			23
087528	9	110																			24
087529	5	215																			25
SX 087530	4	102																			26
SX 087531	40	325																			27
087532	24	110																			28
087533	61	170																			29
087534	7	86																			30
087535	53	168																			31
087536	48	225																			32
087537	64	204																			33
087538	40	174																			34
087539	93	355																			35
SX 087540	48	420																			36
																					37
																					38
																					39
																					40

All reports are the confidential property of clients
All results are in PPM.

DISGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 5, 1981

DATE REPORTS MAILED Aug. 12, 1981

ASSAYER *D. Toyer*

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Canadian Nickel Co. Ltd.,

ACME ANALYTICAL LABORATORIES LTD

Assaying & Trace Analysis

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

phone: 253 - 3158

File No. 81-0946

Type of Samples _____

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

15

SAMPLE No.	Mo	Cu																			
SX 087541	86	280																			1
087542	65	290																			2
087543	102	385																			3
087544	43	475																			4
087545	19	138																			5
087546	20	170																			6
087547	11	140																			7
087548	4	215																			8
087549	6	310																			9
087550	1	240																			10
087551	1	260																			11
087552	2	76																			12
087553	2	150																			13
087554	1	48																			14
087555	1	94																			15
087556	1	90																			16
087557	2	98																			17
087558	1	148																			18
087559	1	47																			19
087560	1	35																			20
087561	1	27																			21
087562	1	33																			22
087563	2	190																			23
087564	2	166																			24
087565	4	146																			25
087566	1	172																			26
087567	2	230																			27
087568	3	305																			28
087569	15	850																			29
SX 087570	1	21																			30
SX 087571	1	196																			31
087572	2	60																			32
087573	6	375																			33
087574	2	146																			34
087575	2	68																			35
087576	7	134																			36
SX 087577	3	64																			37
																					38
																					39
																					40

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 5, 1981

DATE REPORTS MAILED Aug. 12, 1981

ASSAYER Dean Toyé

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Canadian Nickel Co. Ltd.,

ACME ANALYTICAL LABORATORIES LTD

Assaying & Trace Analysis

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

phone:253 - 3158

File No. 81-0946

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

16

SAMPLE No.	Mo	Cu																			
SX 087578	12	775																			1
087579	2	300																			2
087580	4	340																			3
087581	1	235																			4
087582	1	15																			5
087583	1	86																			6
087584	2	40																			7
087585	1	235																			8
087586	1	440																			9
087587	1	45																			10
087588	1	136																			11
087589	1	122																			12
087590	2	355																			13
087591	1	182																			14
087592	2	215																			15
087593	6	635																			16
087594	7	445																			17
087595	35	320																			18
087596	38	500																			19
087597	323	1175																			20
087598	130	168																			21
087599	115	690																			22
087600	76	350																			23
087601	60	435																			24
087602	18	270																			25
087603	56	585																			26
087604	40	138																			27
087605	28	415																			28
087606	32	390																			29
087607	63	720																			30
087608	1	39																			31
087609	19	265																			32
087610	72	305																			33
087611	1	12																			34
087612	1	23																			35
087613	1	72																			36
SX 087614	68	160																			37
																					38
																					39
																					40

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 5, 1981

DATE REPORTS MAILED Aug. 12, 1981

ASSAYER *D. Toye*

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Canadian Nickel Co. Ltd.,

ACME ANALYTICAL LABORATORIES LTD

Assaying & Trace Analysis

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

phone:253 - 3158

File No. 81-0946

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

16A

SAMPLE No.	Mo	Cu																			
SX 087615	35	320																			1
087616	40	350																			2
087617	34	395																			3
087618	90	854																			4
087619	16	112																			5
087620	22	96																			6
087621	10	23																			7
087622	14	100																			8
087623	9	25																			9
087624	18	98																			10
087625	15	62																			11
087626	24	56																			12
087627	17	46																			13
087628	12	47																			14
087629	7	38																			15
087630	4	12																			16
087631	15	305																			17
087732	26	82																			18
087633	5	76																			19
SX 087634	15	254																			20
																					21
																					22
																					23
																					24
																					25
																					26
																					27
																					28
																					29
																					30
																					31
																					32
																					33
																					34
																					35
																					36
																					37
																					38
																					39
																					40

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 5, 1981

DATE REPORTS MAILED Aug. 12, 1981

ASSAYER *Dean Toye*

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Canadian Nickel Co. Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

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

phone: 253 - 3158

File No. 81-0946

Type of Samples

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

17

SAMPLE No.	Mo	Cu																			
SX 087635	28	240																			1
087636	32	525																			2
087637	34	192																			3
087638	27	525																			4
087639	45	290																			5
SX 087640	58	725																			6
																					7
SX 087641	16	490																			8
087642	38	970																			9
087643	8	245																			10
087644	16	305																			11
087645	7	60																			12
087646	73	760																			13
087647	34	236																			14
087648	4	17																			15
087649	14	184																			16
087650	67	905																			17
087651	45	174																			18
087652	33	180																			19
087653	9	46																			20
087654	15	20																			21
087655	36	172																			22
087656	20	260																			23
087657	26	340																			24
087658	24	410																			25
087659	9	182																			26
087660	14	580																			27
087661	17	54																			28
087662	9	144																			29
087663	12	104																			30
087664	12	46																			31
087665	50	188																			32
087666	1	56																			33
087667	14	235																			34
087668	180	365																			35
087669	166	255																			36
SX 087670	210	445																			37
																					38
																					39
																					40

All reports are the confidential property of clients
 All results are in PPM.
 DIGESTION:.....
 DETERMINATION:.....

DATE SAMPLES RECEIVED. Aug. 5, 1981
 DATE REPORTS MAILED. Aug. 12, 1981
 ASSAYER *D. Toye*

DEAN TOYE, B.Sc.
 CHIEF CHEMIST
 CERTIFIED B.C. ASSAYER



To: Canadian Nickel Co. Ltd.,

File No. 81-0946

Type of Samples _____

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

18

SAMPLE No.		Mo	Cu																		
SX 087671		133	76																		1
087672		50	38																		2
087673		178	1050																		3
087674		14	41																		4
087675		38	112																		5
087676		37	360																		6
087677		58	375																		7
087678		8	10																		8
087679		215	335																		9
087680		31	450																		10
SX 087681		9	86																		11
																					12
RX 042726	Rock	6	910																		13
042727		1	3700																		14
042728		5	240																		15
042729		173	235																		16
042730		1	16																		17
042731		1	5																		18
042732		1	31																		19
042733		5	98																		20
042734		1	6																		21
042735		1	26																		22
042736		1	38																		23
042737		1	84																		24
042738		1	52																		25
042739		2	116																		26
042740		1	39																		27
RX 042741	Rock	3	94																		28
																					29
																					30
																					31
																					32
																					33
																					34
																					35
																					36
																					37
																					38
																					39
																					40

All reports are the confidential property of clients
All results are in PPM.

DIGESTION:.....

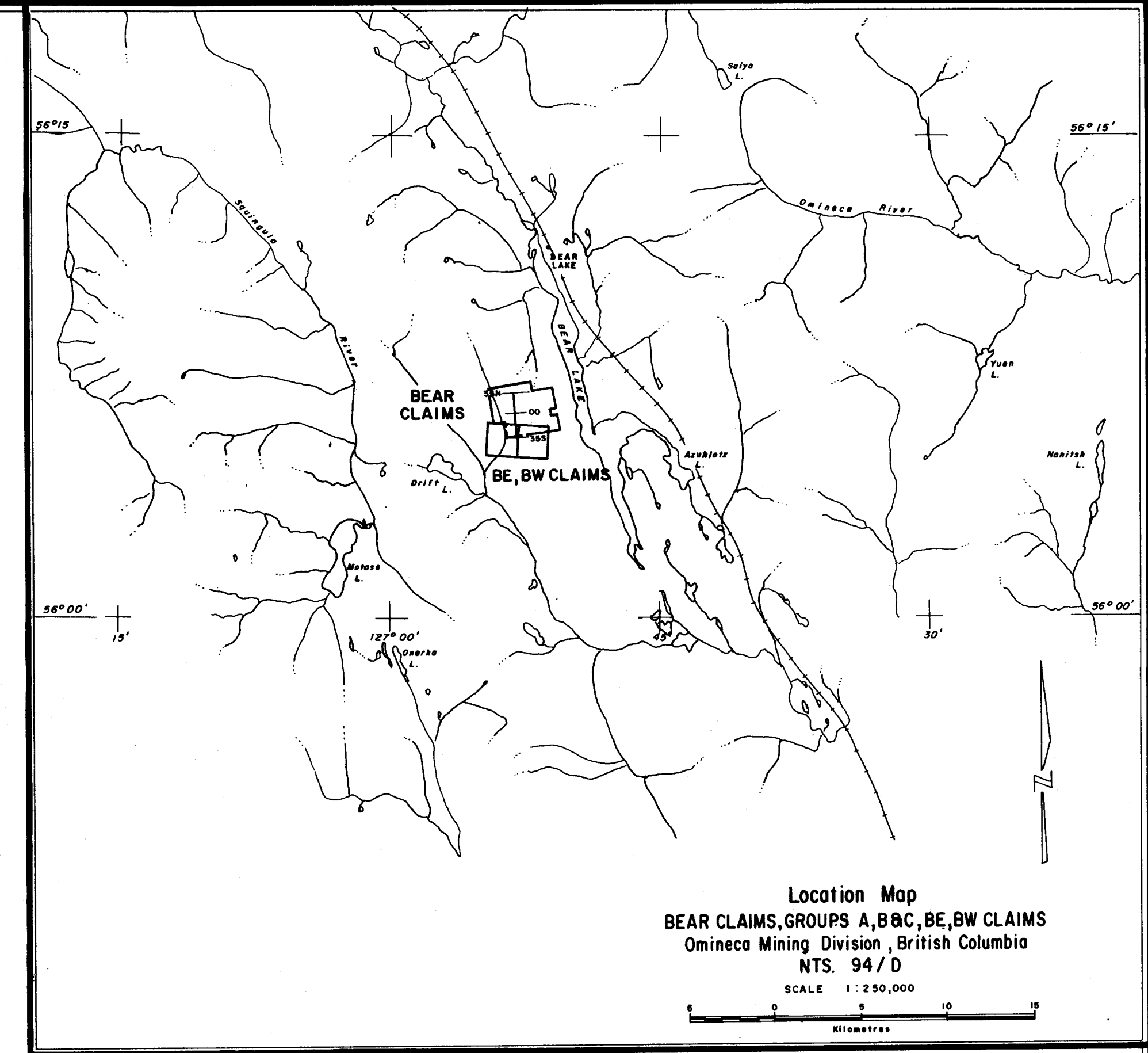
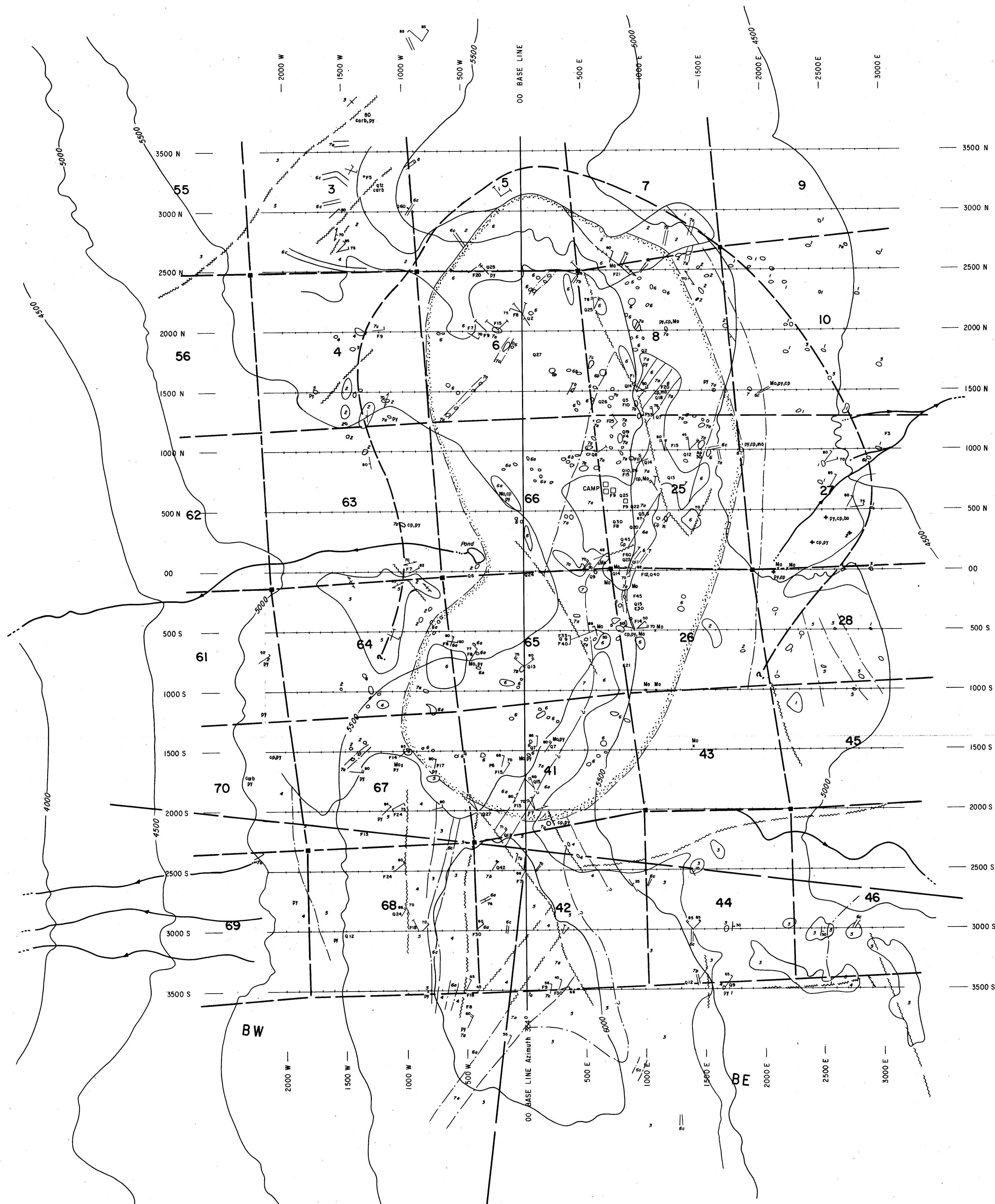
DETERMINATION:.....

DATE SAMPLES RECEIVED Aug. 5, 1981

DATE REPORTS MAILED Aug. 12, 1981

ASSAYER *D. Toye*

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED P.C. ASSAYER



LEGEND

EOCENE	KASTBERG INTRUSIONS
7	Monzonite dikes - 7a Quartz-feldspar porphyry, 7b Quartz porphyry, 7c Aplite
BABINE (?) INTRUSIONS	
6	Monzoniorite stock - 6a Monzoniorite, 6b Quartz monzoniorite, 6c Plagioclase porphyry.
MIDDLE JURASSIC HAZELTON GROUP (VOLCANIC HOST ROCK)	
5	Felsophytic flows (rhyolite)
4	Vesicular, metaporphytic flows (andesite)
3	Volcanoclastic greywackes, breccias (rhyodacite)
2	Crystal-lithic tuff (lapilli tuff)
UPPER TRIASSIC TAKLA (?)	
1	Greenschist (metabasalt)

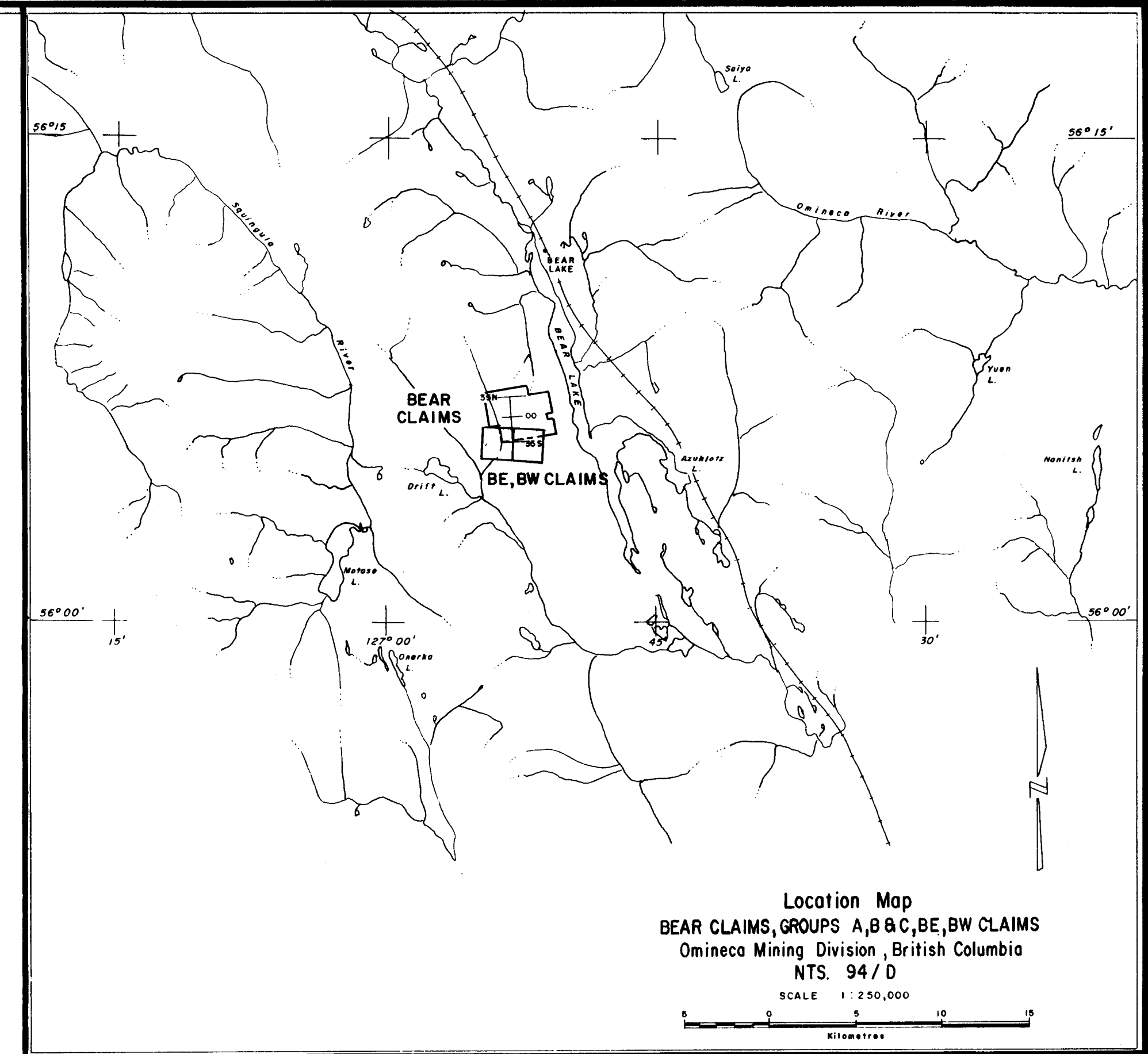
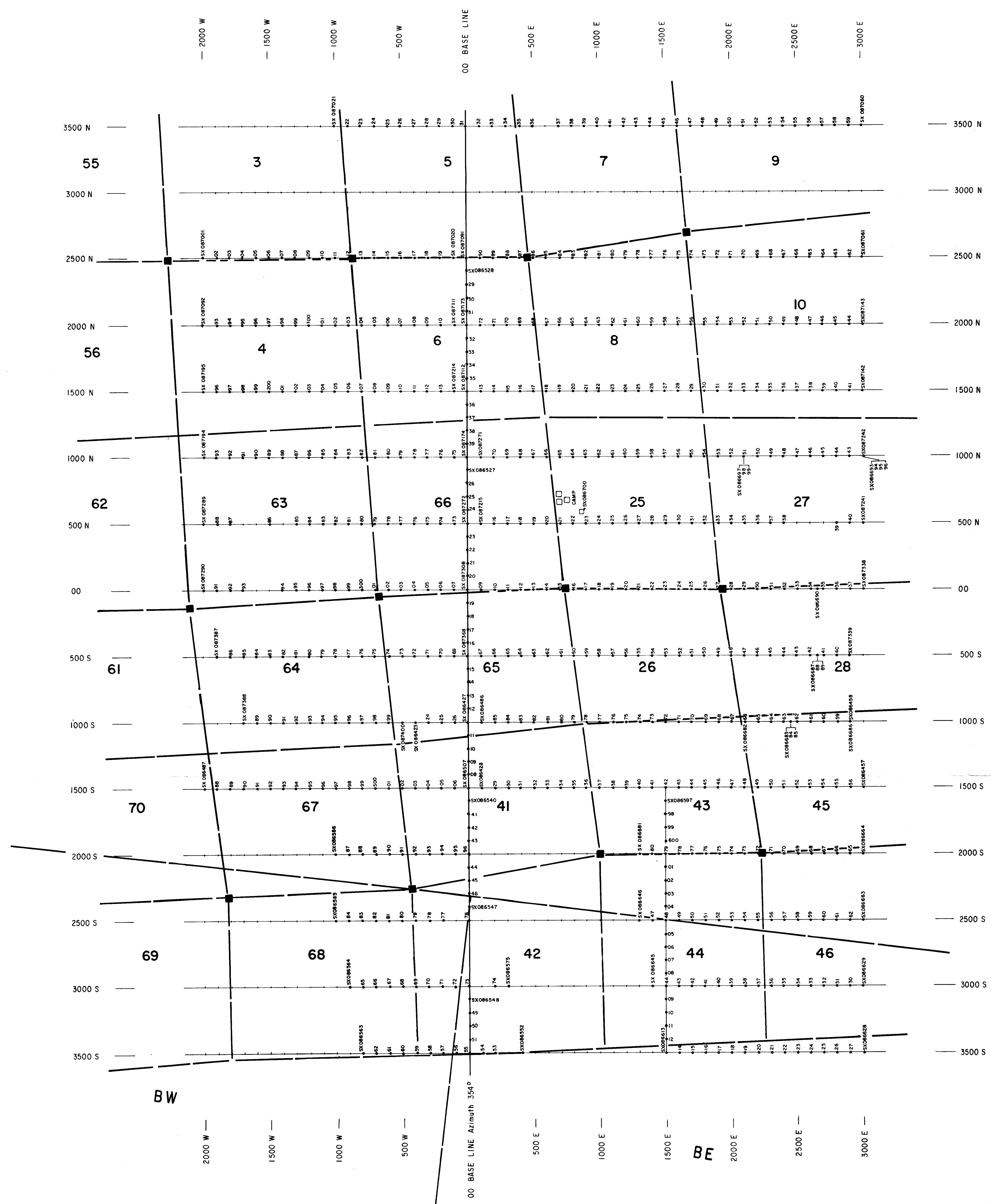
	Geological Contact - defined, assumed (approximate)
	Outcrop
	Fault
	Strike and Dip of Bedding - inclined, vertical, dip unknown
	Strike and Dip of Foliation (schistosity) - inclined, vertical, dip unknown
	Fracture, Fracture Density (F) = fractures/meter
	Quartz Veining, Quartz veins, veinlets (vts) Density (Q) = vts/meter
	Dyke
	Drainage
	Elevation Contour (in feet)
	Float
	Claim Post
	Cp Chalcopyrite
	Py Pyrite
	Mo Molybdenite
	Monzoniorite-volcanic Contact Zone
	Limit of bio-horizons zone (approx.)

9534

SCALE
0 100 200 300 400 500
METRES

NOTE:
Geology based on mapping by E. Hunter (Conico), 1973 with
additional mapping and modifications by P. Peto, R. Arthur 1981
Grid co-ordinates are Imperial (feet)

Canadian Nickel Company Limited		Copper Cliff, Ontario POM 1ND	
GEOLOGY MAP		SHEET 1	FIGURE 1
Project: BEAR, BE, BW CLAIMS		Area: OMINEDA MINING DIVISION, BC.	
Supervisor: E. J. Debicki	Instrument:	Survey date: July /81	
Compiled by: P. Peto, R. Arthur	Drawn by: RMK	Date drawn: Sept /81	Revised:
Scale: 1:5000	File:	NTS. 94 D 2 W	

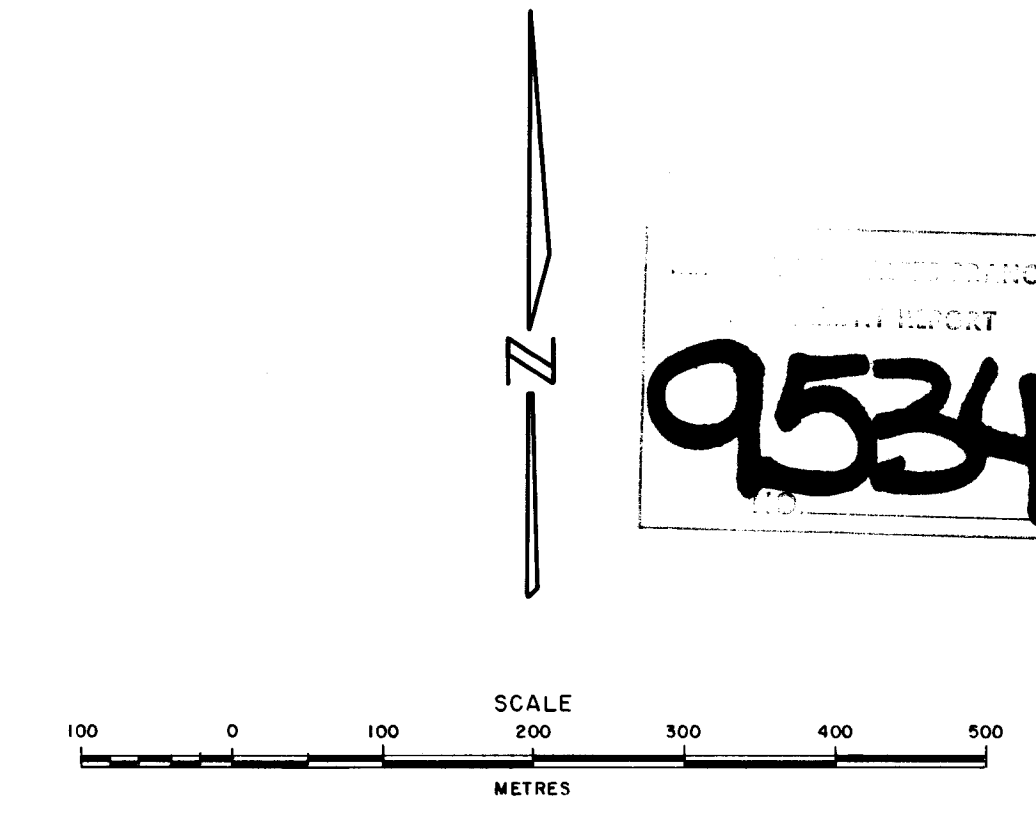


LEGEND

SX086528 Soil Sample Location and Sample Number

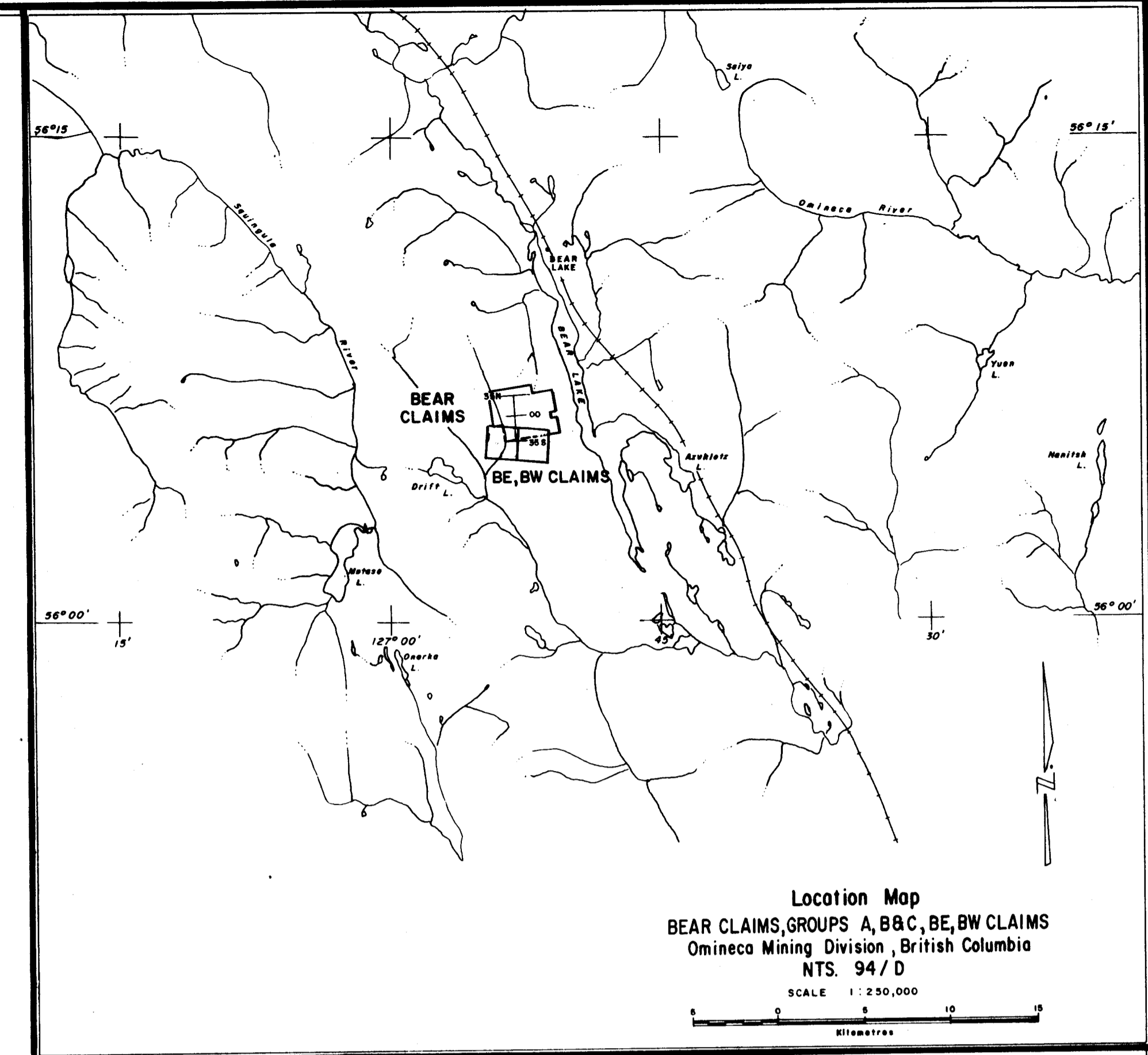
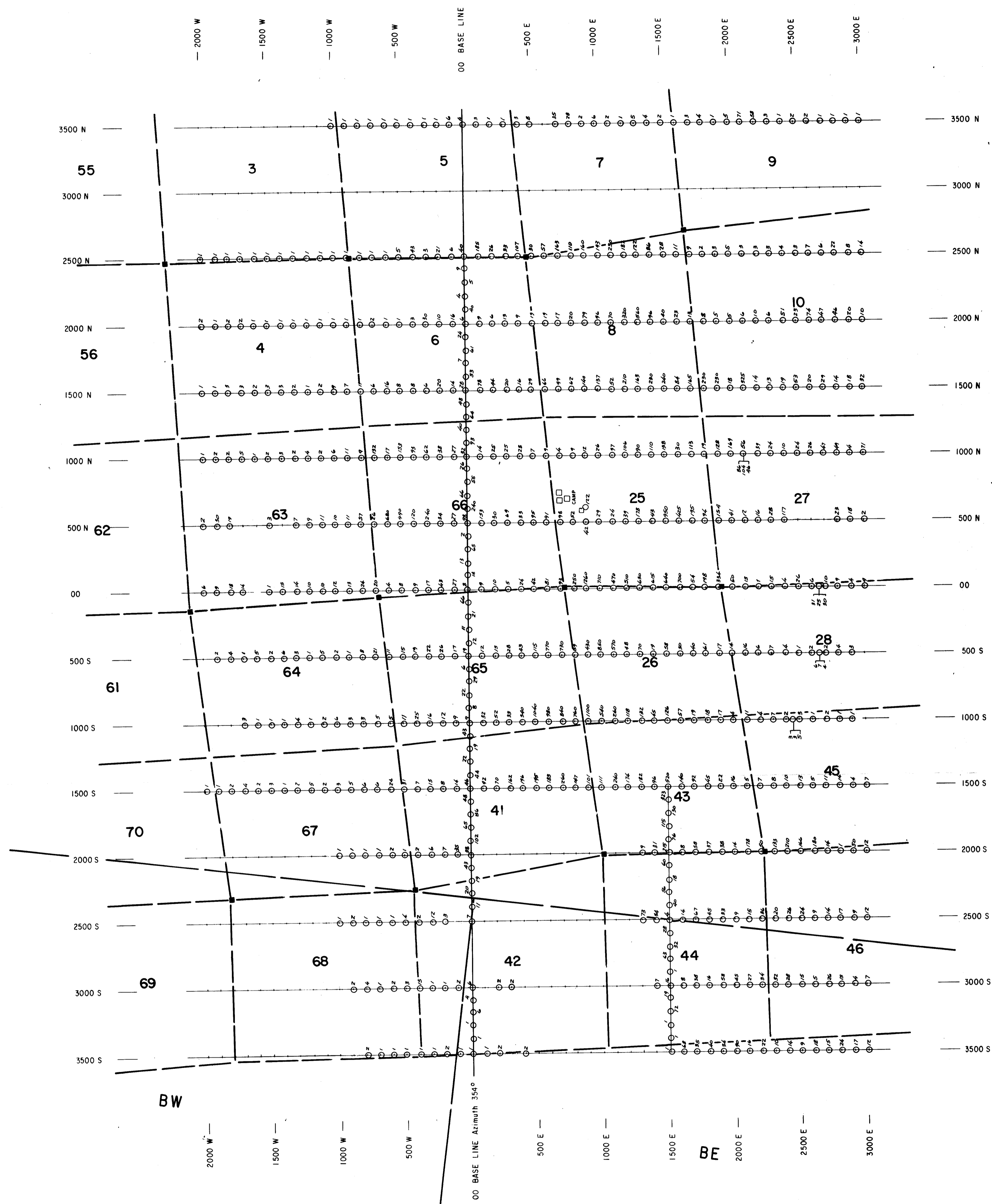
SX086528 [Square Symbol] Samples taken at depths of 1, 2, and 3 feet

Note: Grid co-ordinates are Imperial (feet)



9534

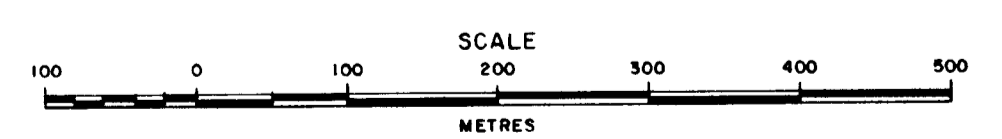
Canadian Nickel Company Limited		Copper Cliff, Ontario POM 1NO	
Mo-Cu. SOIL GEOCHEM SURVEY SAMPLE LOCATION MAP		SHEET 1	FIGURE MAP 2
Project: BEAR, BE, BW CLAIMS		Area: OMINECA MINING DIVISION, BC.	
Supervisor: E.J. Debicki	Instrument:	Survey date: July / 81	
Compiled by: J. Neufeld R. Arthur	Drawn by: RMK	Date drawn: Sept. / 81	Revised:
Scale: 1:5000	File:	NTS. 94 D 2 W	



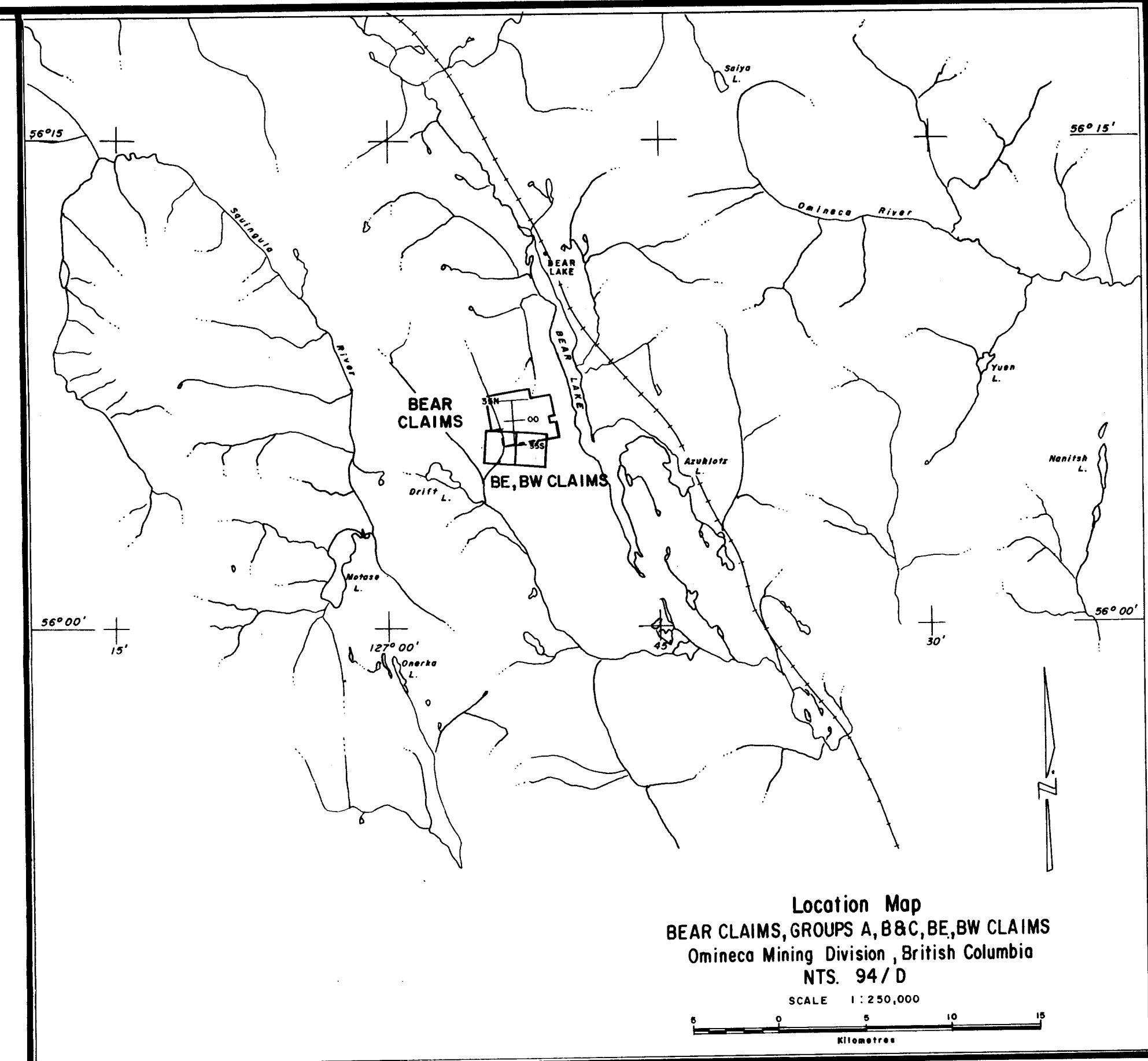
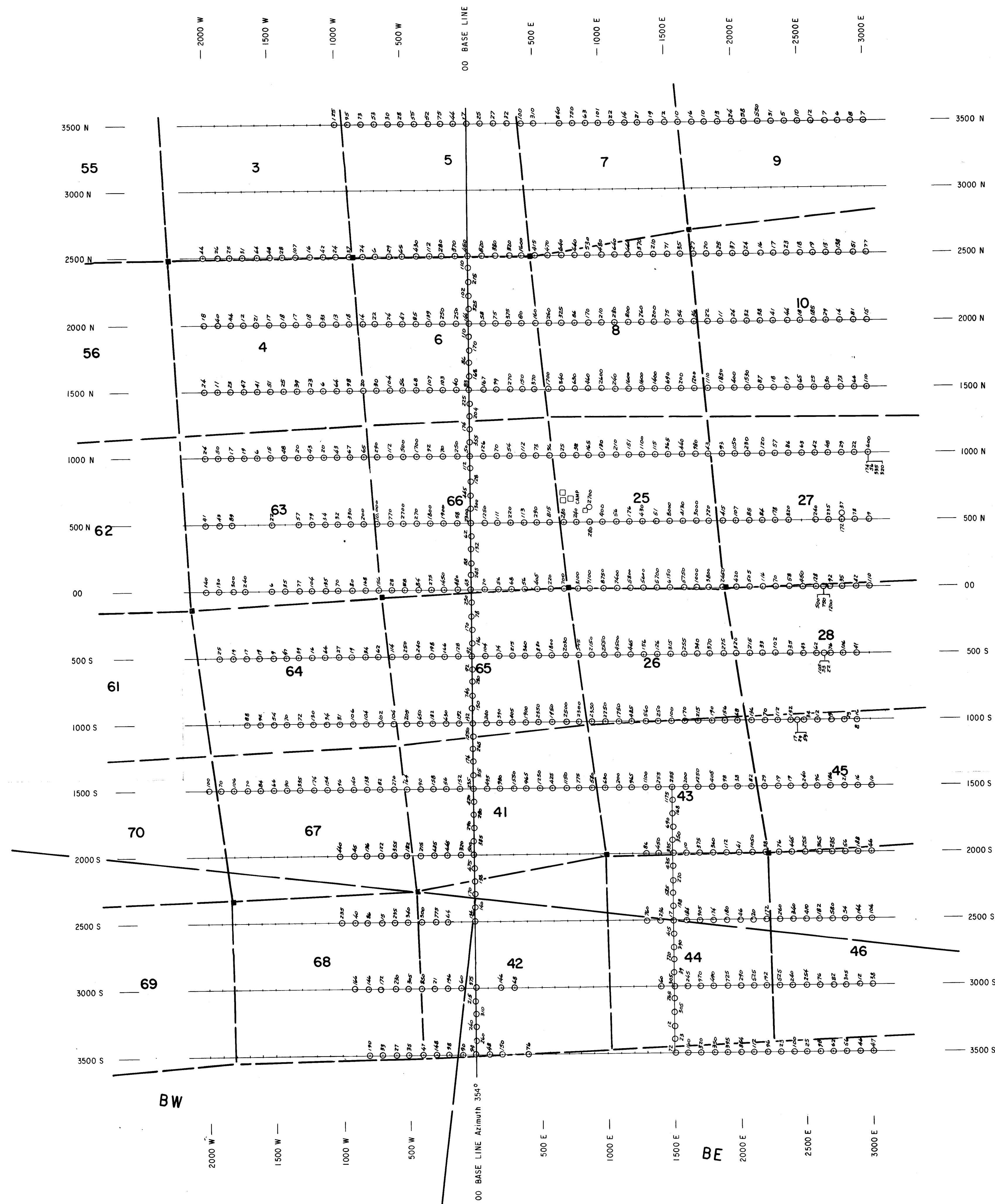
LEGEND
 ○ 25 Soil Sample Assay Value, Mo in parts per million (ppm)

Note: Grid co-ordinates are Imperial (feet)

9534



Canadian Nickel Company Limited		Copper Cliff, Ontario	
SOIL GEOCHEM SURVEY		POM 110	
MOLYBDENITE ASSAY RESULTS (ppm)		SHEET 1	FIGURE MAP 2a
Project: BEAR, BE, BW CLAIMS		Area: OMINECA MINING DIVISION, BC.	
Supervisor: E. J. Debicki	Instrument:	Survey date: July / 81	
Compiled by: J. Naufeld	Drawn by: RMK	Date drawn: Sept / 81	Revised:
Scale: 1:5000	File:	N.T.S. 94 D 2 W	



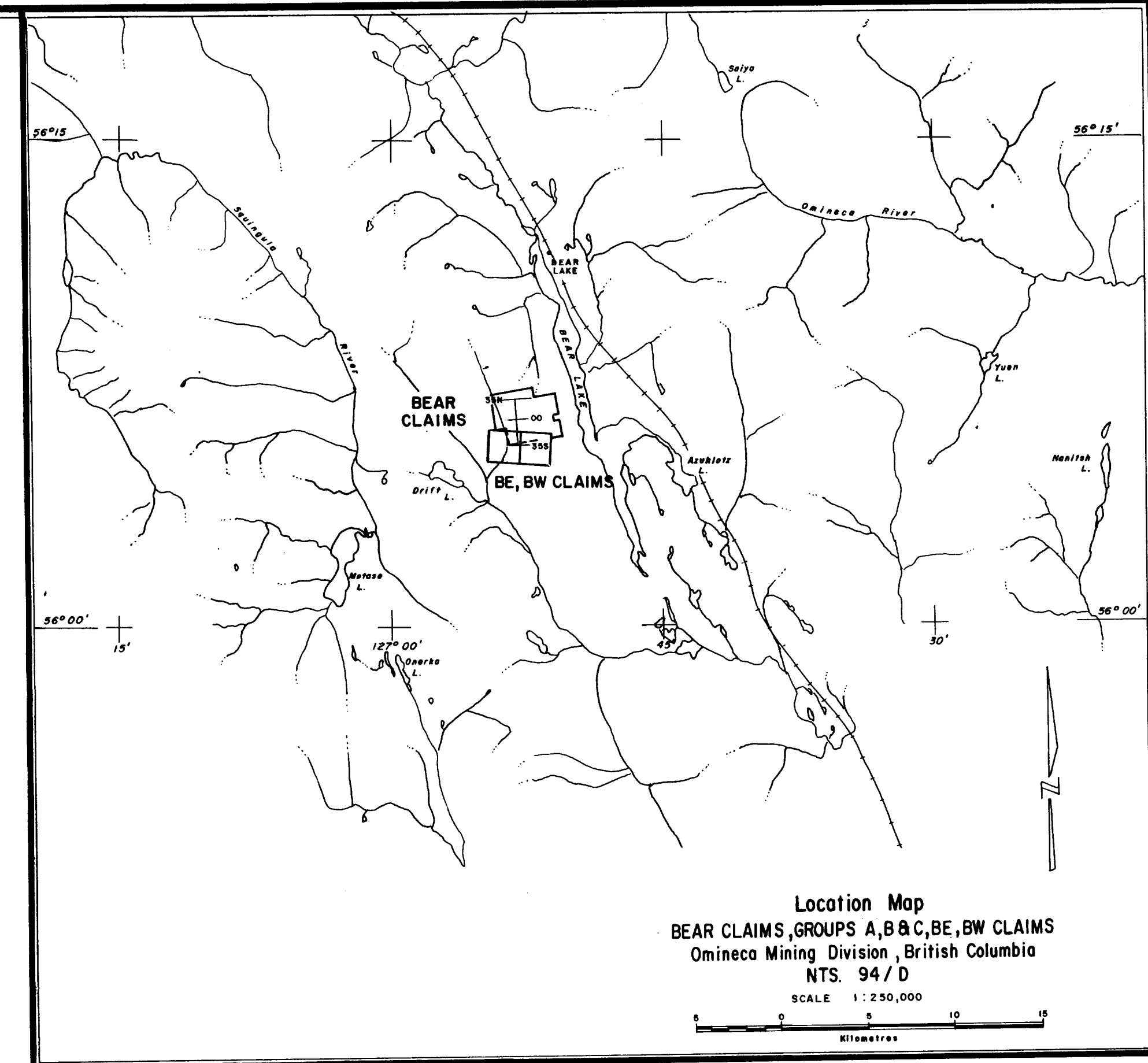
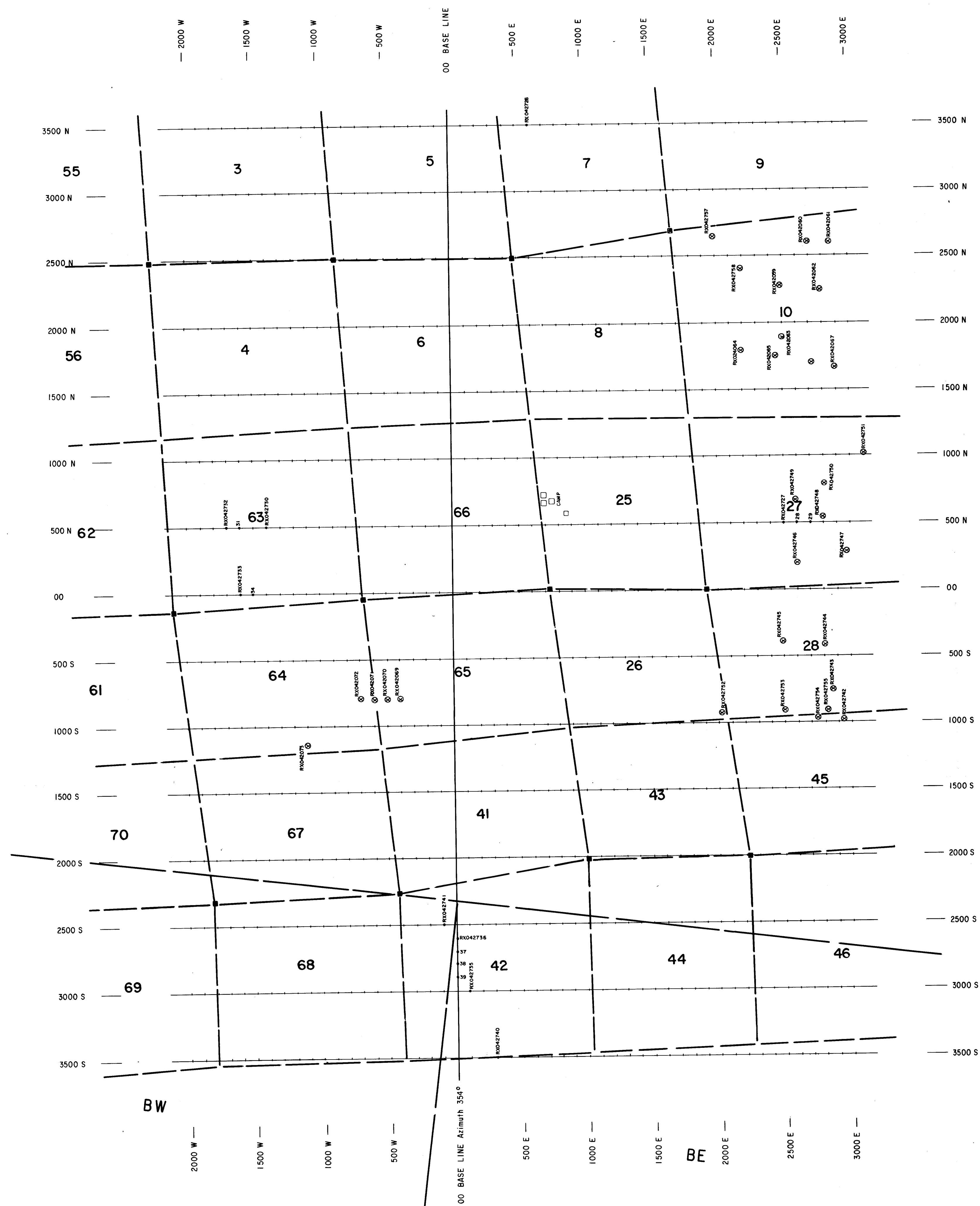
LEGEND
 ○425 Soil Sample Assay Value, Cu in parts per million (ppm)

Note: Grid co-ordinates are Imperial (feet)

9534

SCALE
 0 100 200 300 400 500
 METRES

Canadian Nickel Company Limited		Copper Cliff, Ontario	
SOIL GEOCHEM SURVEY		FROM INCO	
COPPER ASSAY RESULTS (ppm)		SHEET 1	FIGURE MAP 2b
Project: BEAR, BE, BW CLAIMS		Area: OMINOCA MINING DIVISION, B.C.	
Supervisor: E. J. Debicki	Instrument:	Survey date: July / 81	
Compiled by: J. Neufeld	Drawn by: RMK	Date drawn: Sept. / 81	Revised:
Scale: 1:5000	File:	NTS. 94 D 2 W	



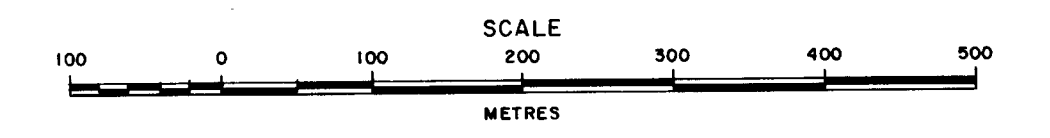
LEGEND

○ RK042725 Rock Sample Location and Sample Number

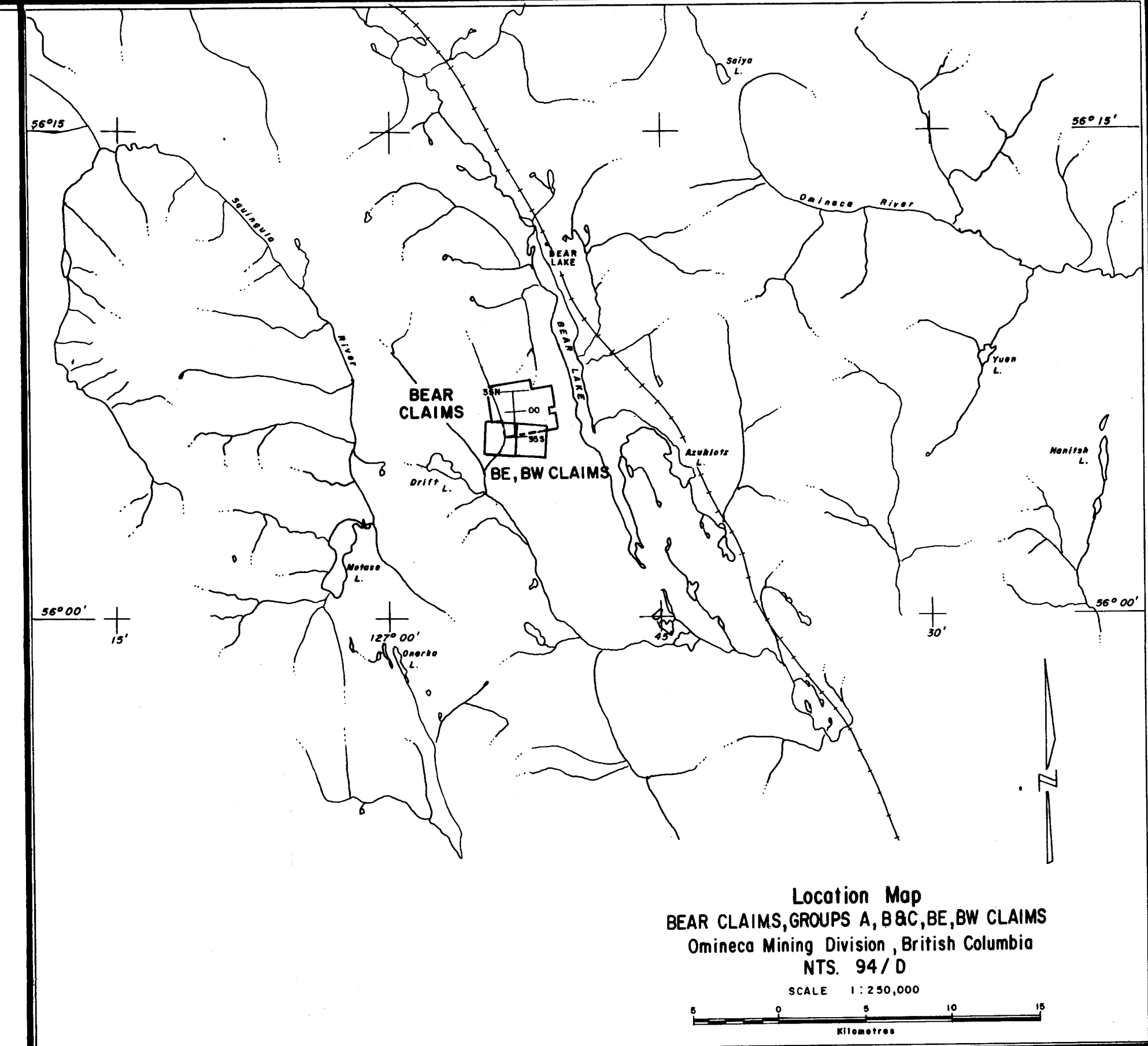
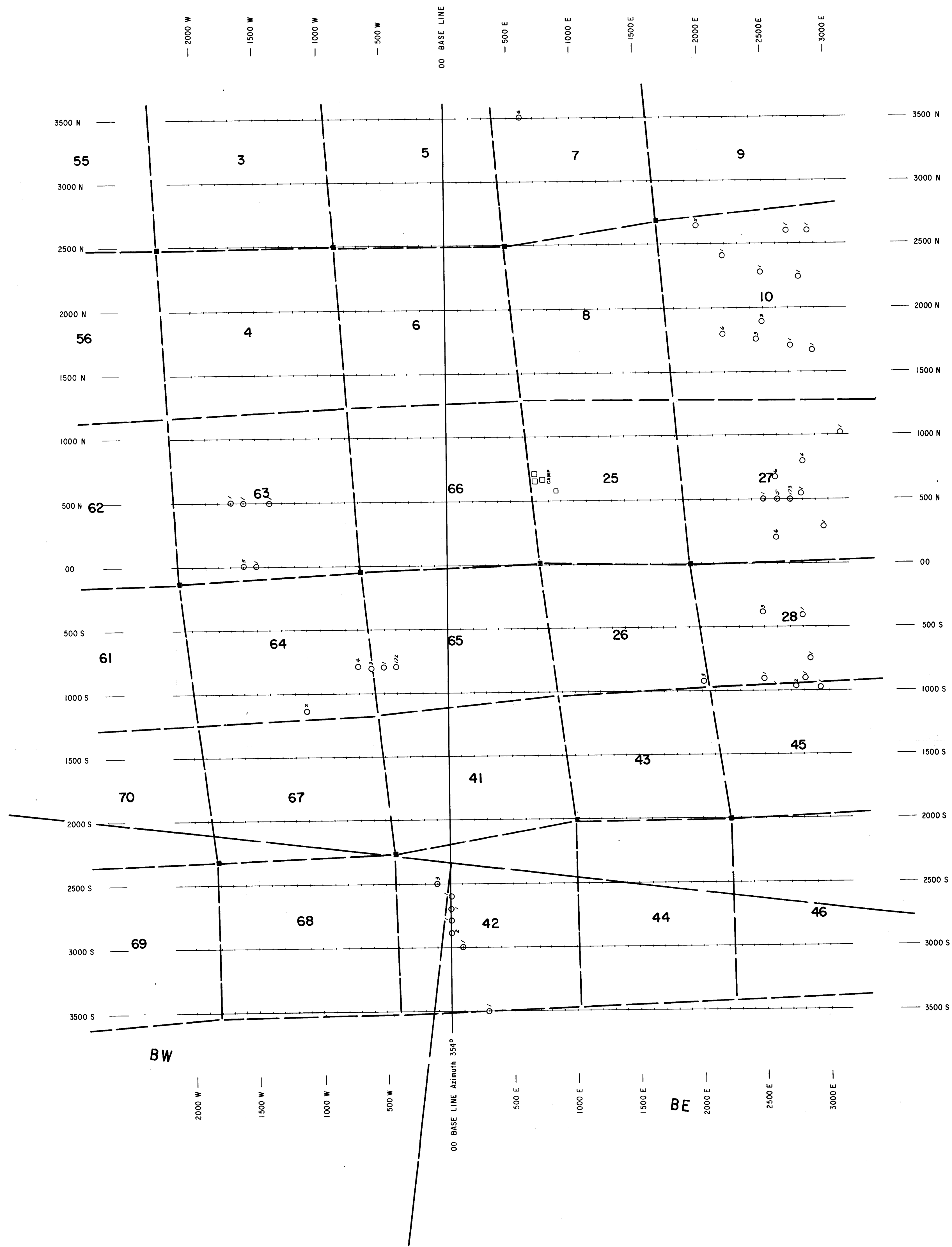
□ RK042055 Rock Float Location

Note: Grid co-ordinates are Imperial (feet)

9534

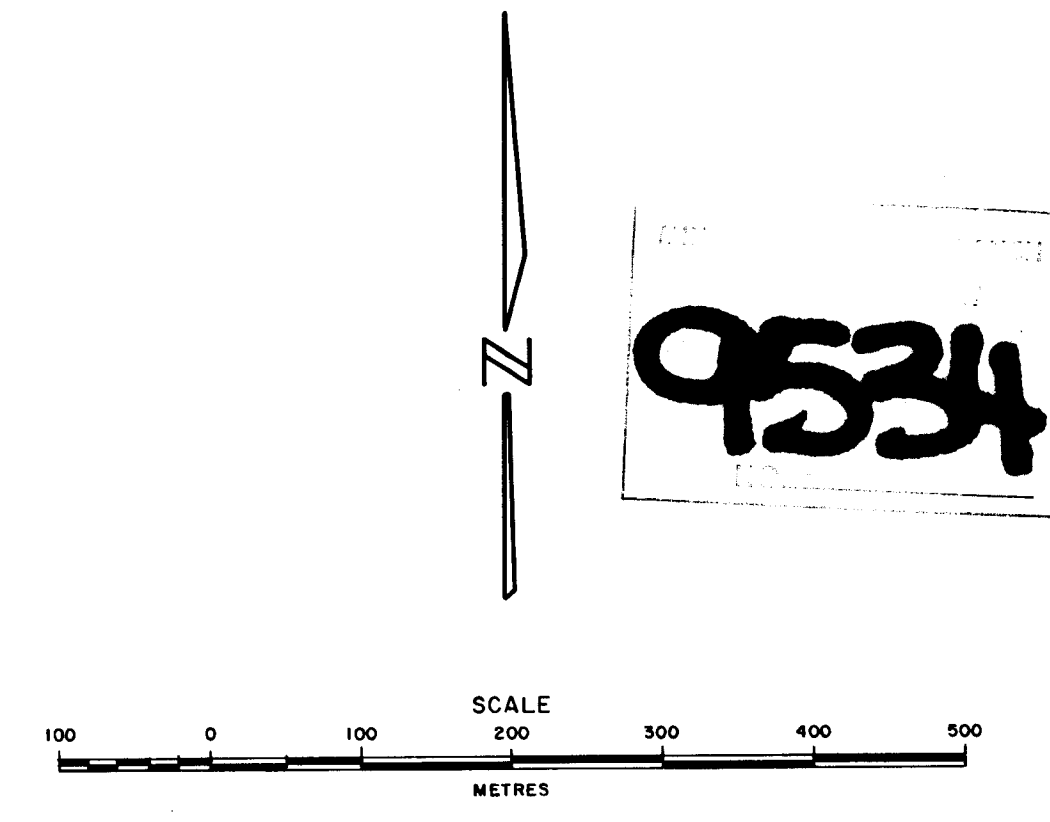


Canadian Nickel Company Limited		Copper Cliff, Ontario POM 1NG	
ROCK SAMPLE LOCATION MAP		SHEET 1	FIGURE MAP 3
Project: BEAR, BE, BW CLAIMS		Area: OMINECA MINING DIVISION, B.C.	
Supervisor: E. J. Debicki	Instrument:	Survey date: July / 81	
Compiled by: J. Naufeld R. Arthur	Drawn by: RMK	Date drawn: Sept / 81	Revised:
Scale: 1:5000	File:	NTS. 94 D 2 W	

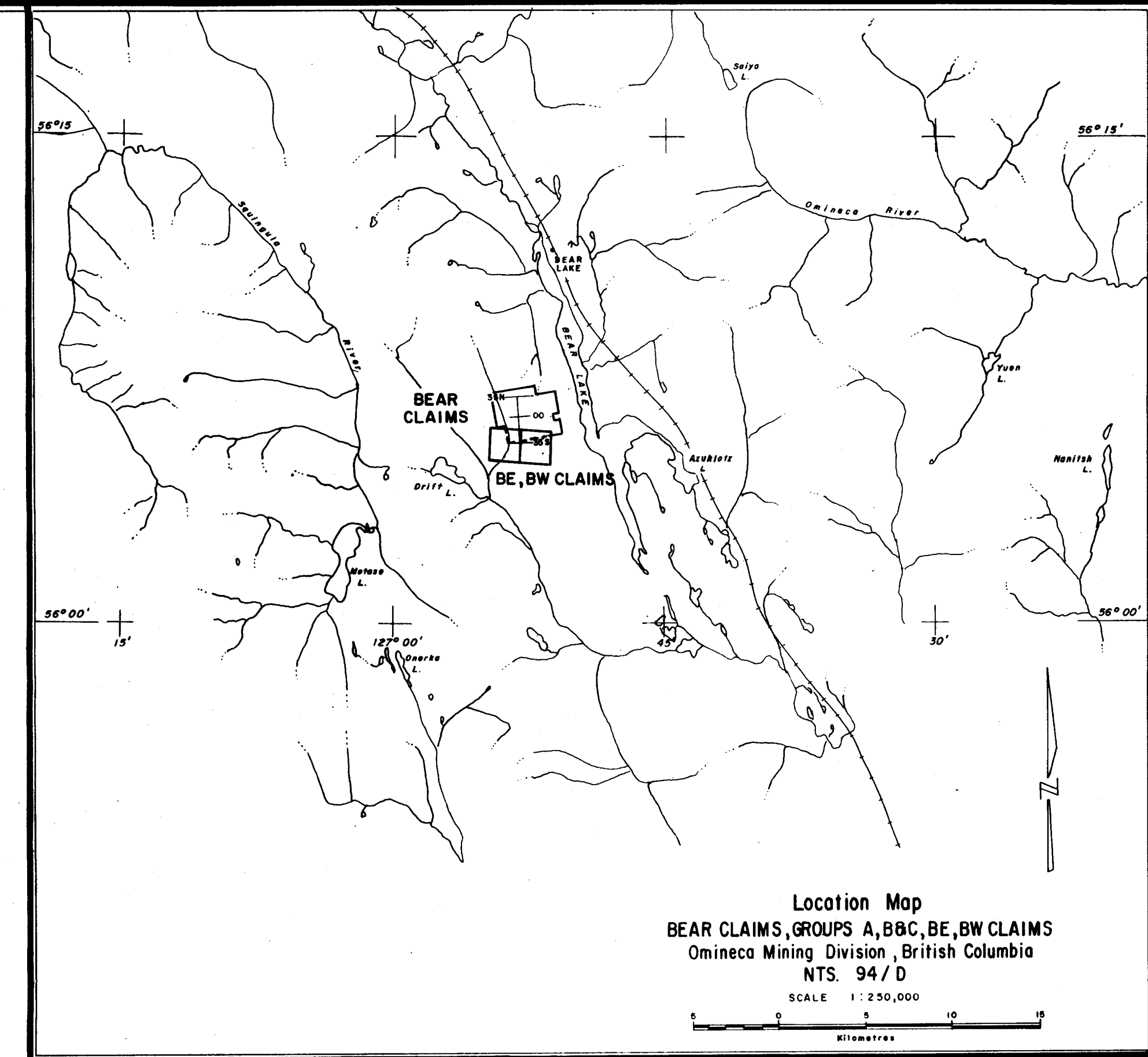
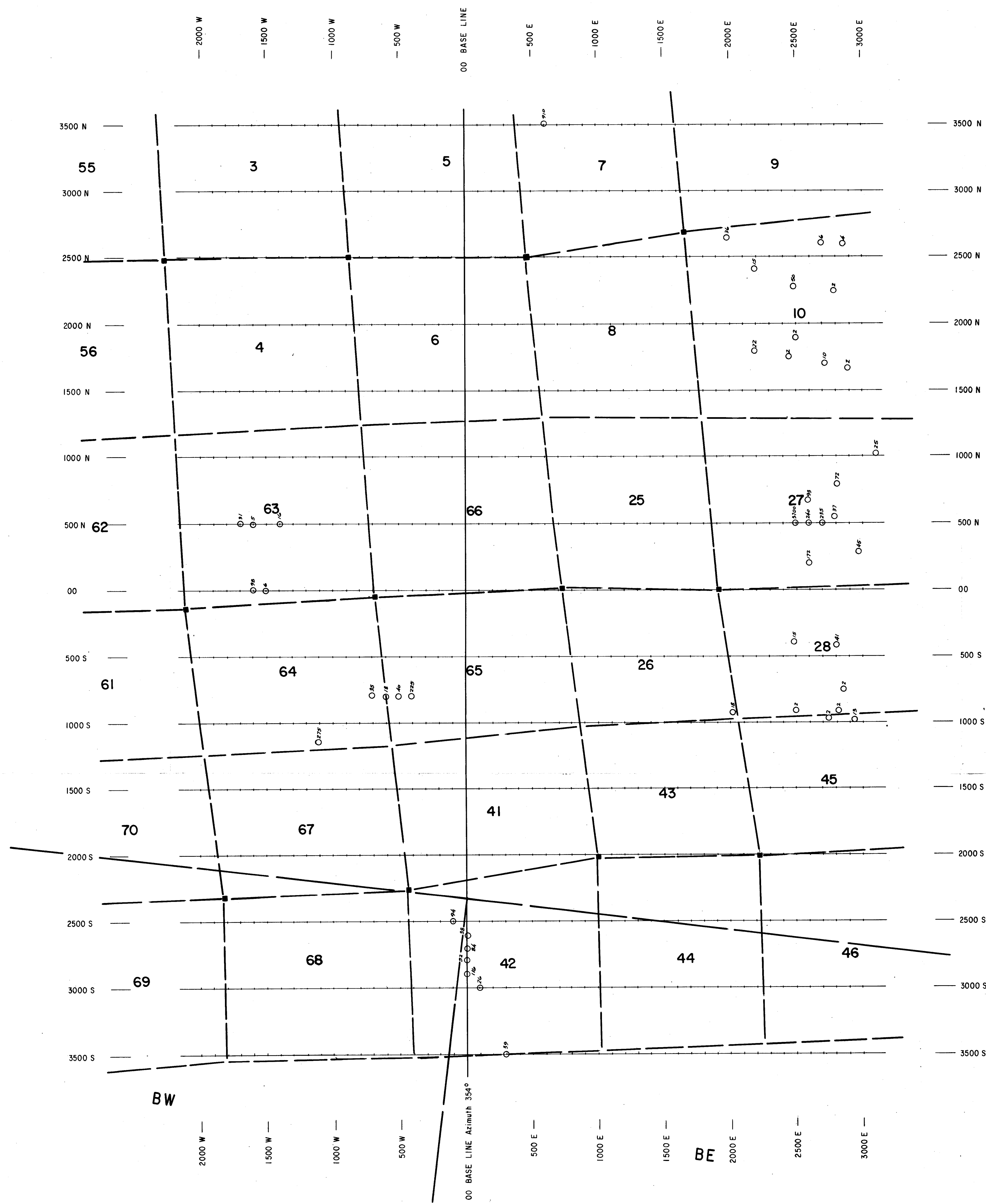


O/S Rock Sample Assay Value, Mo in parts per million (ppm)

Note: Grid co-ordinates are Imperial (feet)



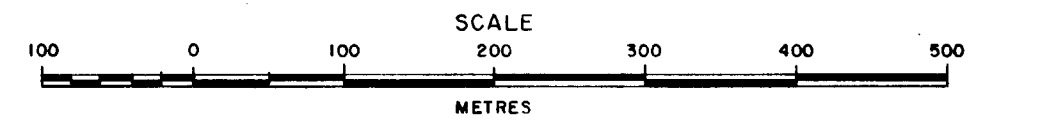
Canadian Nickel Company Limited		Copper Cliff, Ontario	
ROCK SAMPLE ASSAY MAP		SHEET	
MOLYBDENITE RESULTS (ppm)		I	
Project: BEAR, BE, BW CLAIMS		Area: OMINECA MINING DIVISION, B.C.	
Supervisor: E.J. Debicki	Instrument:	Survey date: July /81	Revised:
Compiled by: J. Newfeld	Drawn by: RMK	Date drawn: Sept./81	File:
Scale: 1:5000		NTS. 94 D 2 W	



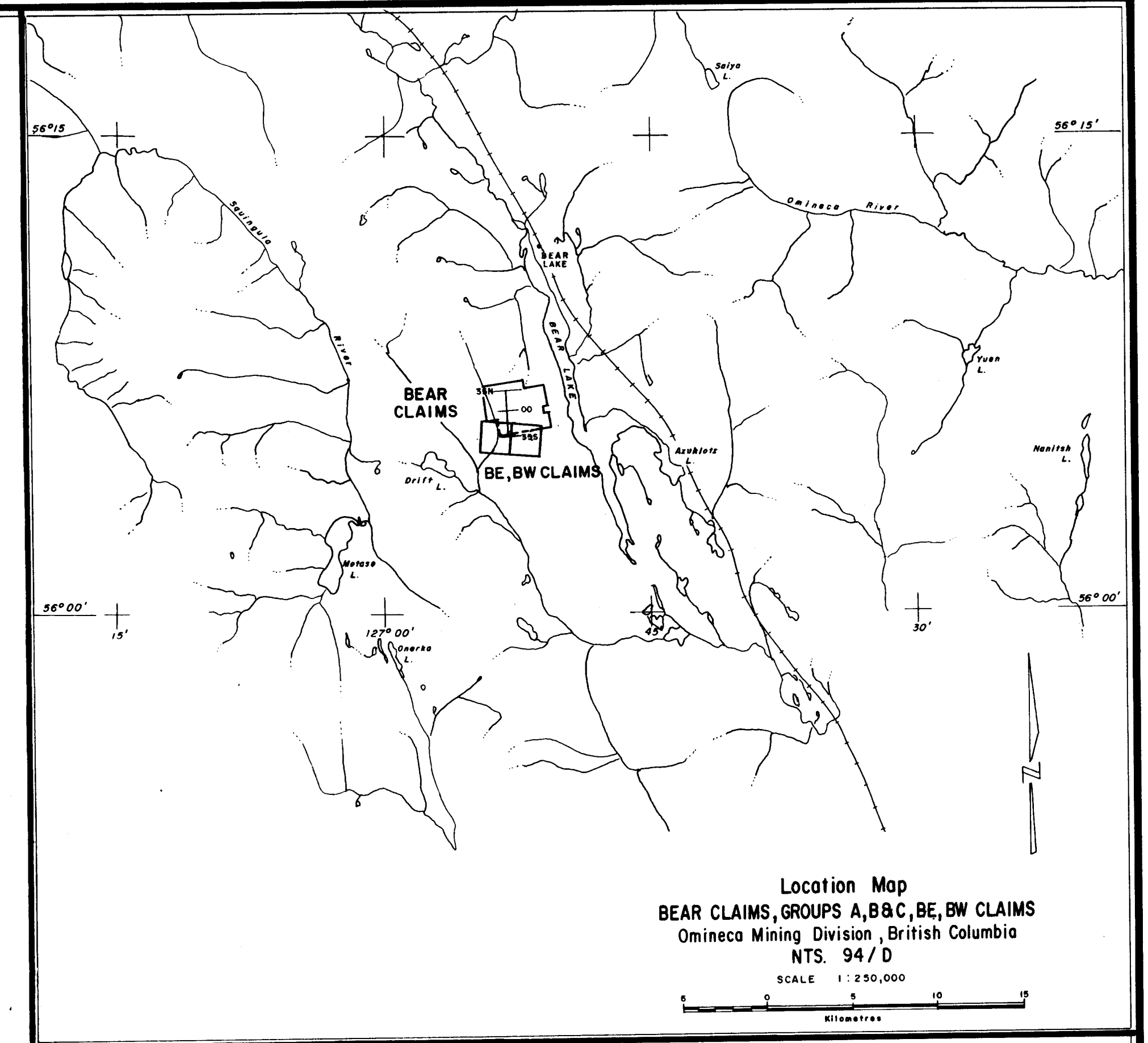
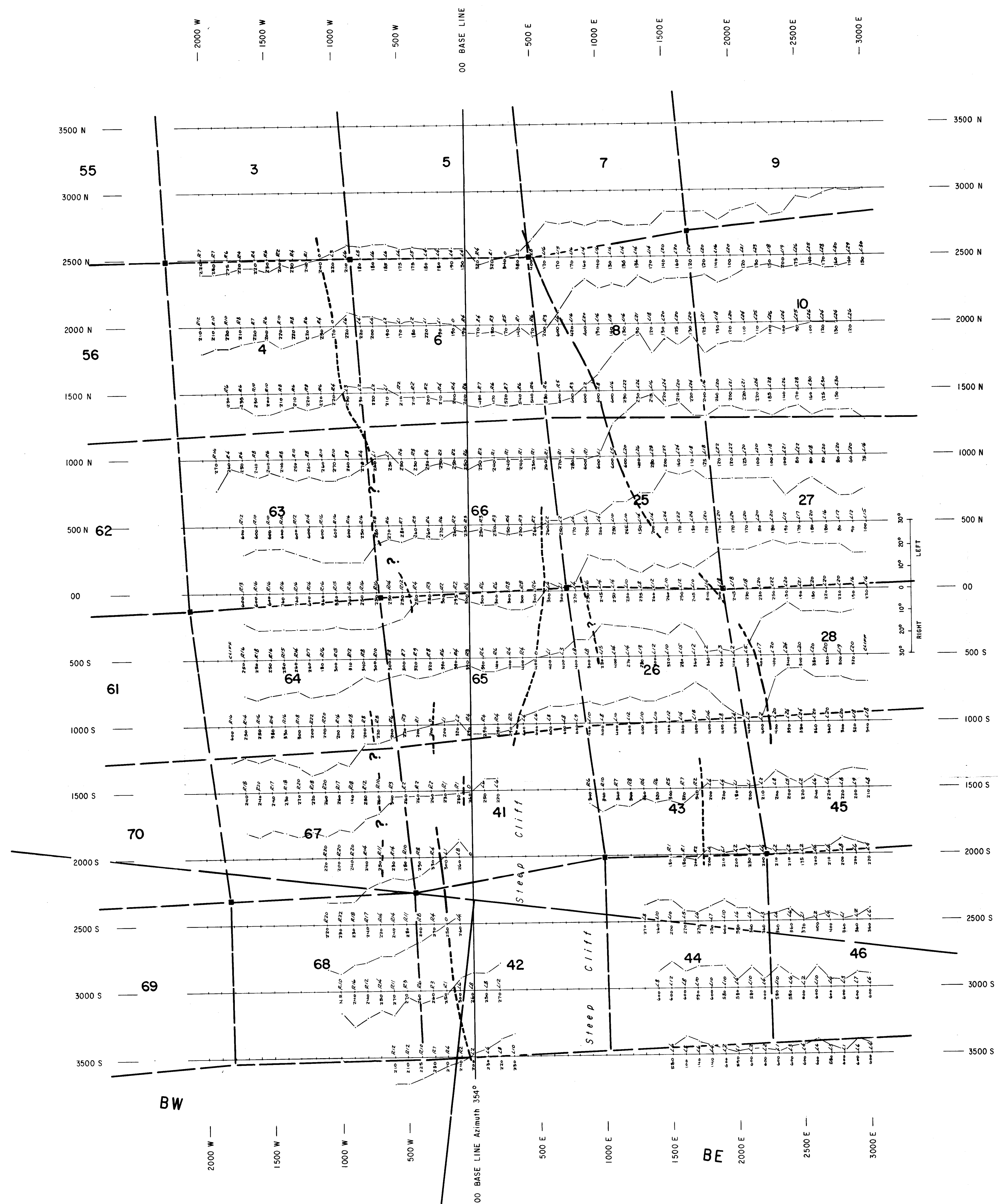
○ 325 Rock Sample Assay Value, Cu in parts per million (ppm)

Note: Grid co-ordinates are Imperial (feet)

9534



Canadian Nickel Company Limited		Copper Cliff, Ontario POM 1ND	
ROCK SAMPLE ASSAY MAP COPPER RESULTS (ppm)		SHEET 1	FIGURE MAP3b
Project: BEAR, BE, BW CLAIMS		Area: OMINECA MINING DIVISION, BC.	
Supervisor: E. J. Debicki	Instrument:	Survey date: July / 81	
Compiled by: J. Naufeld R. Arthur	Drawn by: RMK	Date drawn: Sept / 81	Revised:
Scale: 1:5000	File:	NTS. 94 D 2 W	



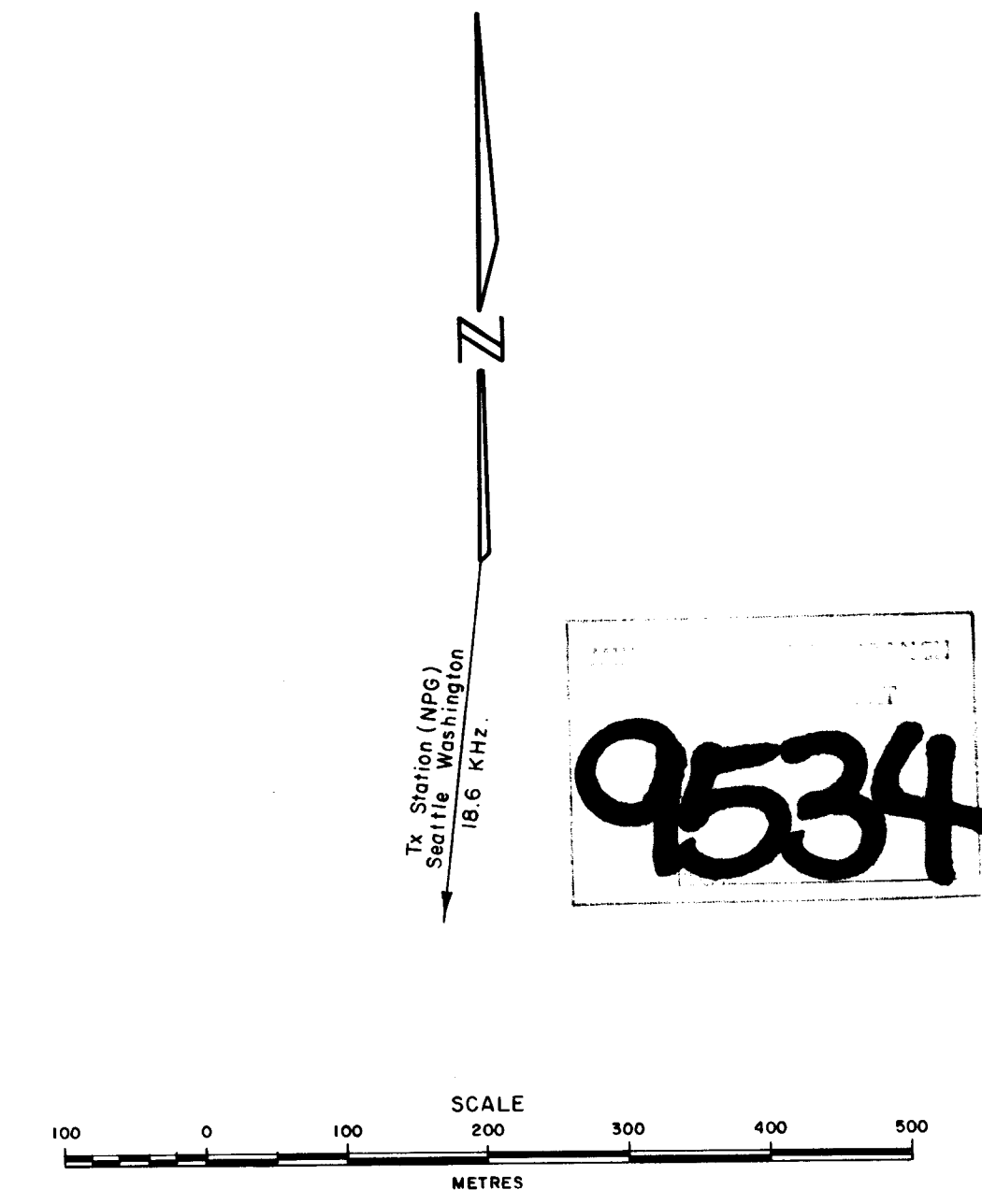
LEGEND

Field Strength (percent) \approx Tilt Angle (degrees)

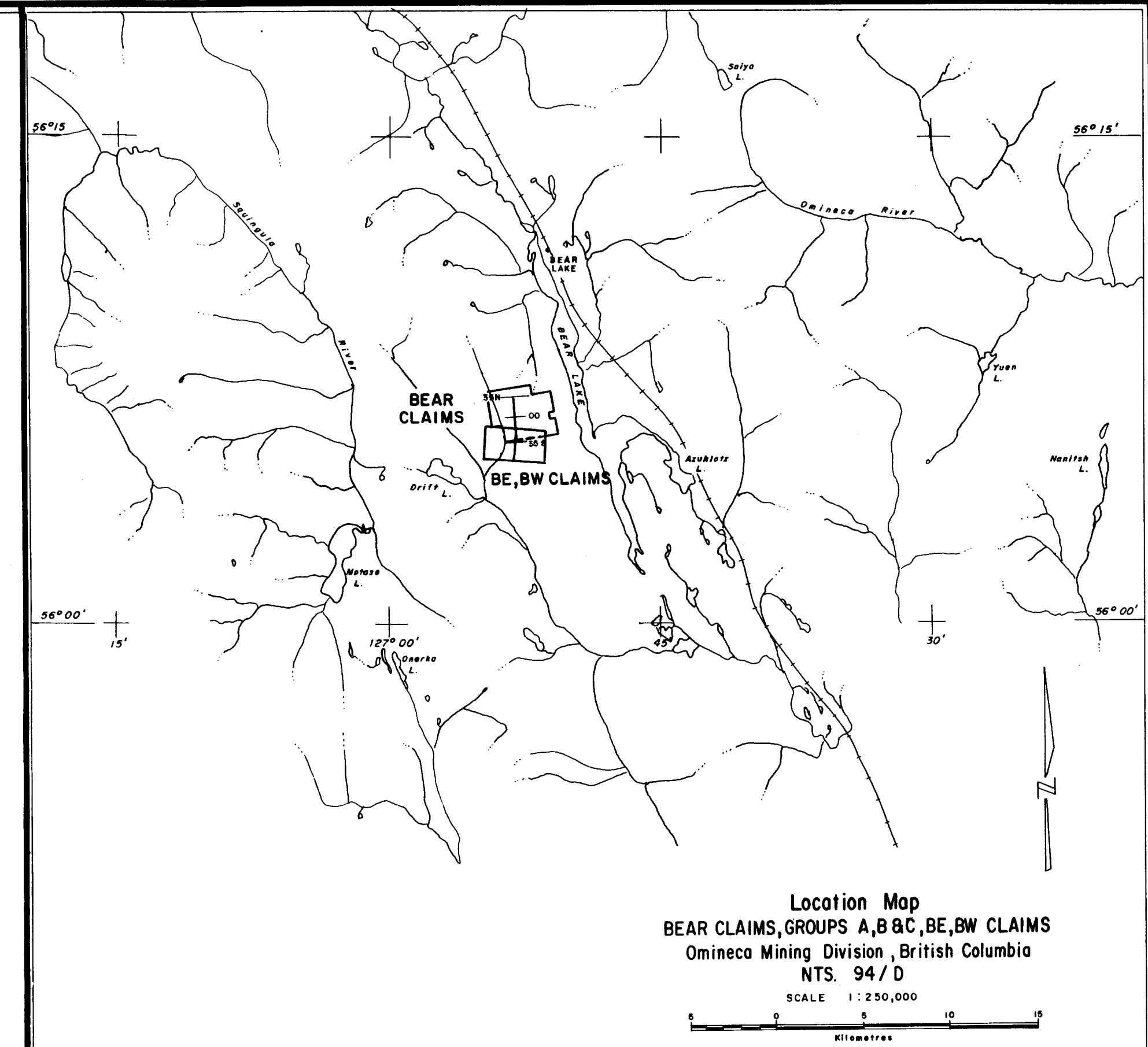
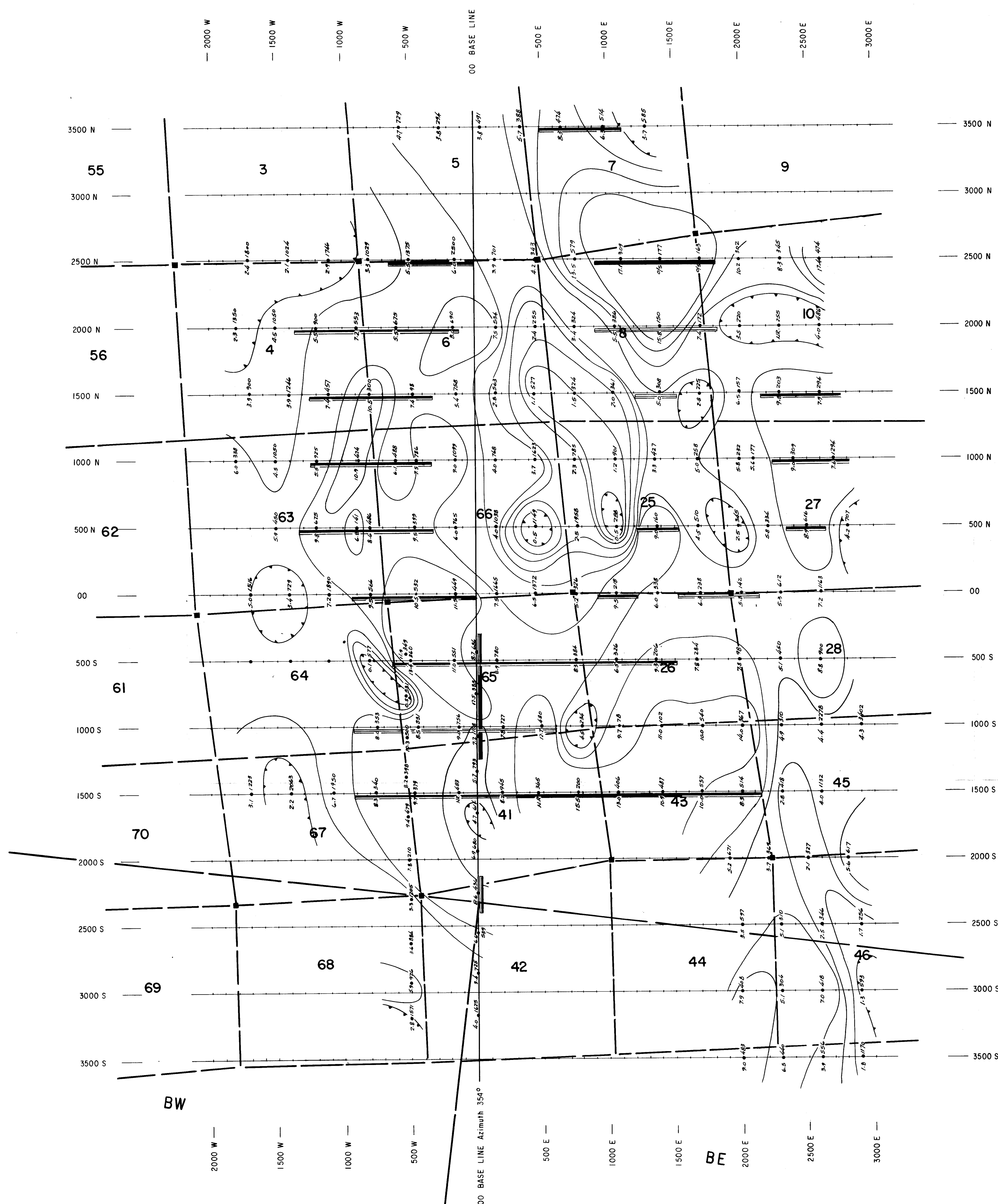
Tilt Angle Profile Scale 1 cm = 10°

Conductors

Note: Grid co-ordinates are Imperial (feet)



Canadian Nickel Company Limited		Copper Cliff, Ontario POM 1NG
EM.16 VLF SURVEY MAP		SHEET 1.
Project: BEAR, BE, BW CLAIMS		FIGURE MAP 4
Area: OMINECA MINING DIVISION, BC.		
Supervisor: E.J. Debicki	Instrument: CRONE RADEM VLF EM Receiver	Survey date: July / 81
Compiled by: A. Tworo	Drawn by: RMK	Date drawn: Sept / 81
Scale: 1:5000	File:	Revised: NTS. 94 D 2 W



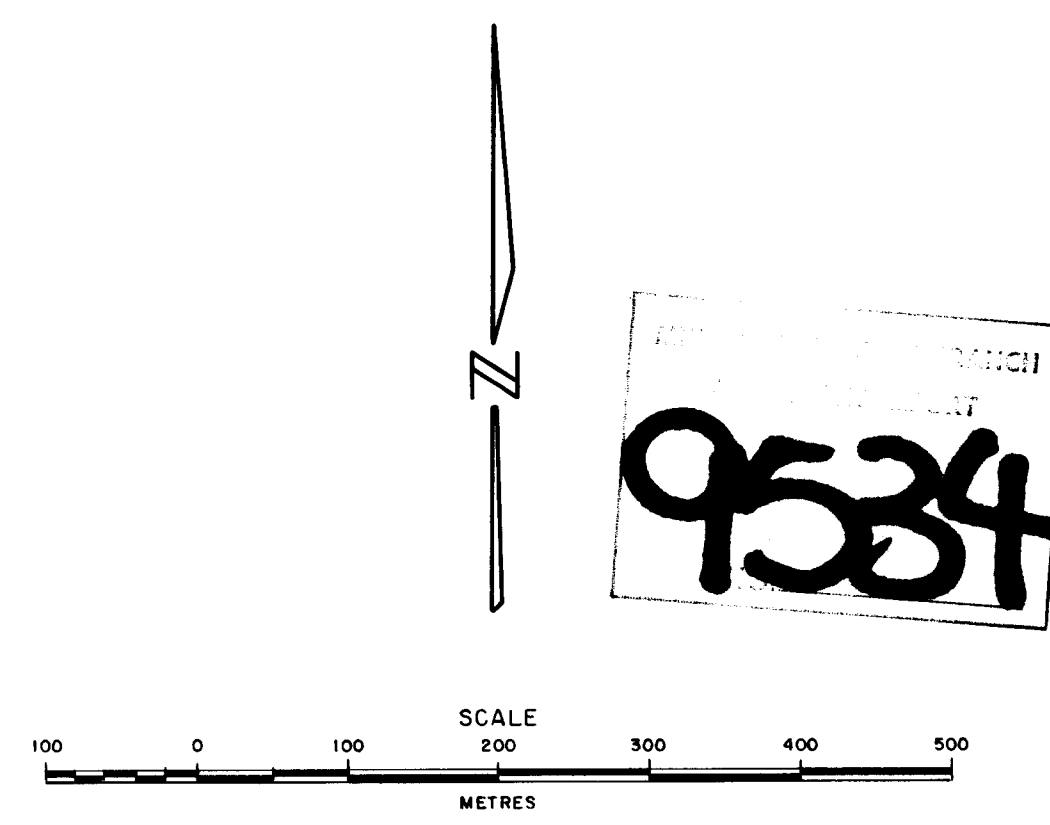
LEGEND

7.8-5.78 Station Location and N-1 Plot of Apparent Frequency Effect and Apparent Resistivity

Anomaly Classification - Strong Medium Weak Possible

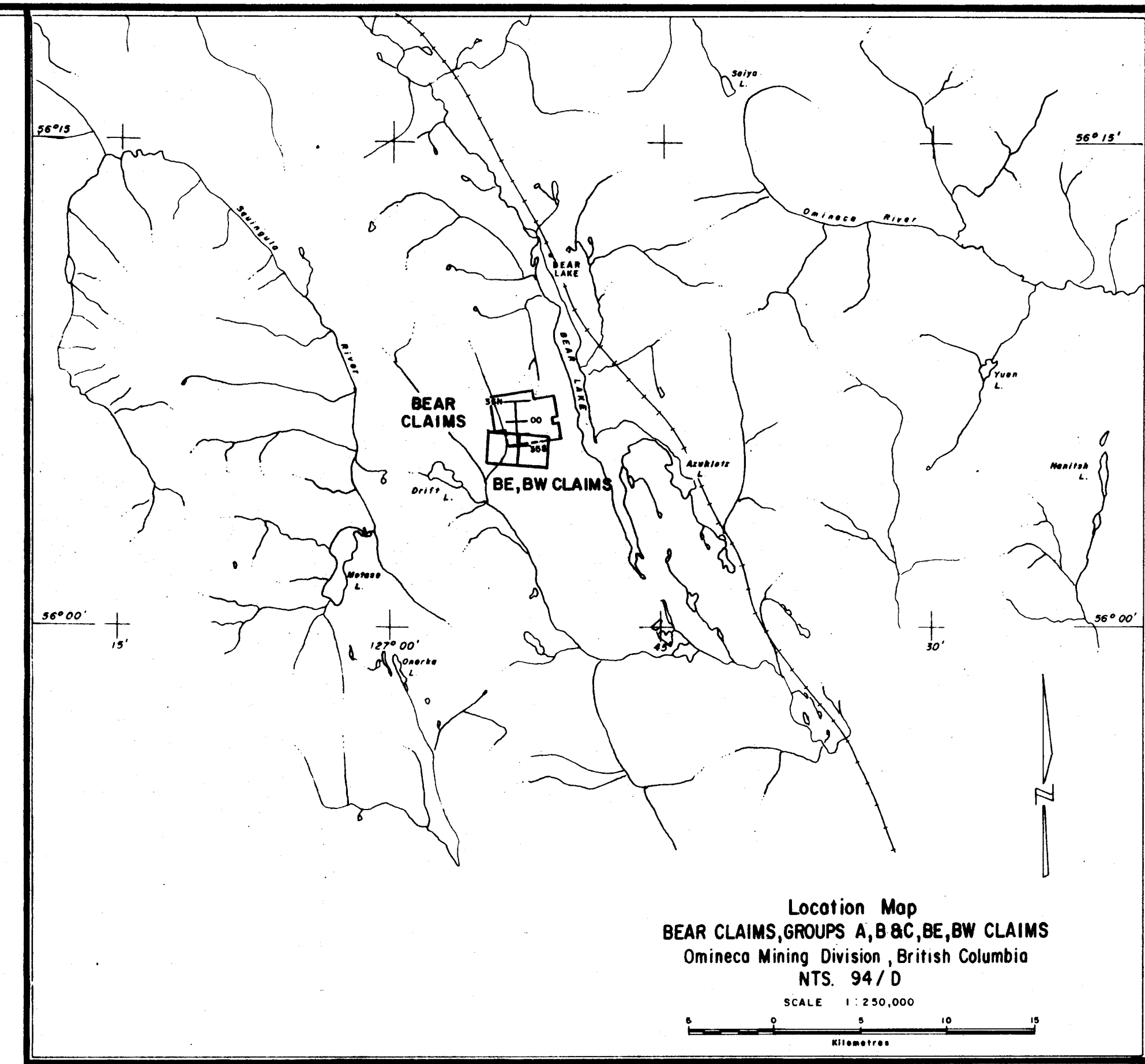
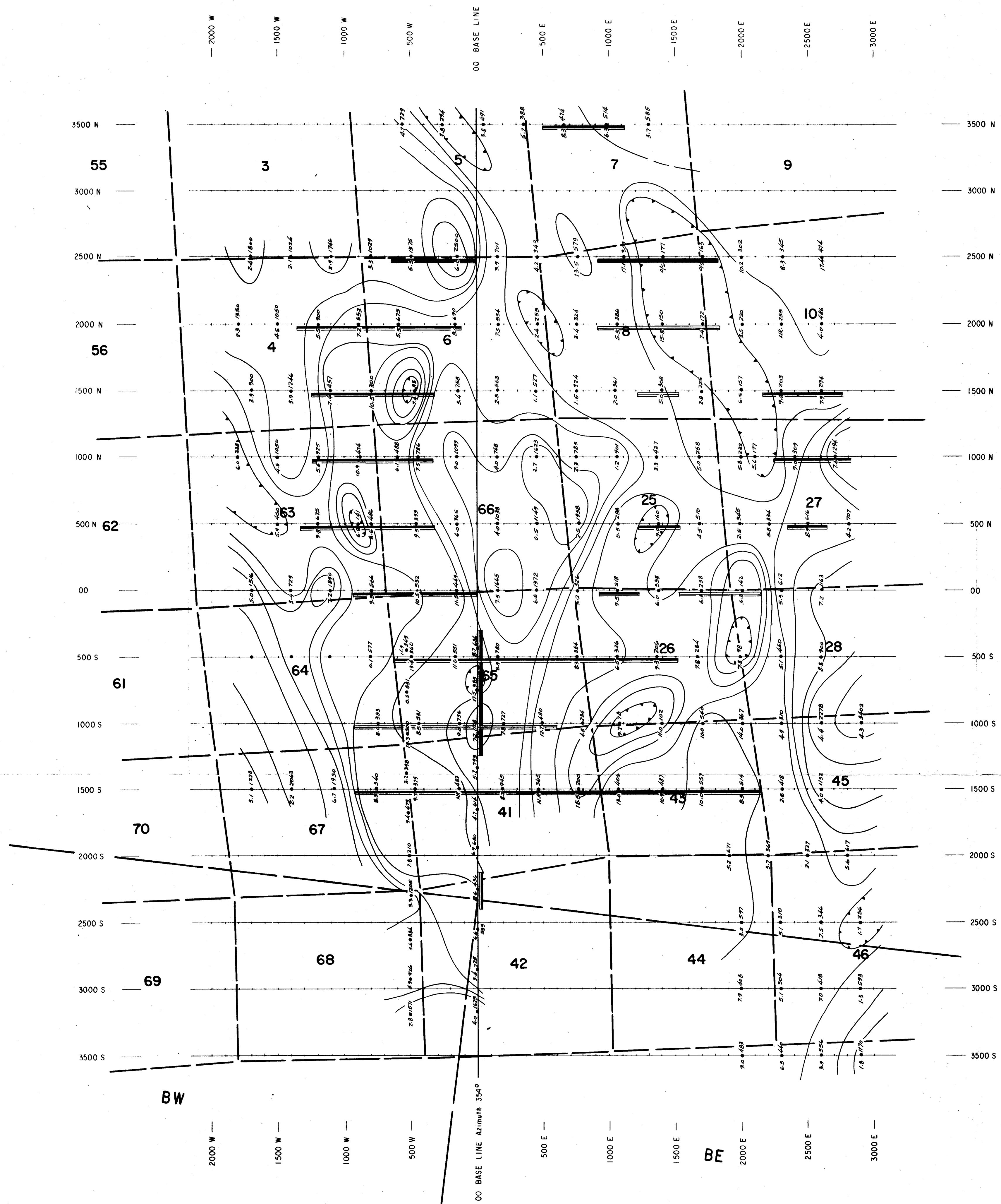
Contour Interval - logarithmic

Note: Grid co-ordinates are Imperial (feet)



9534

Canadian Nickel Company Limited		Copper Cliff, Ontario POM 1100	
INDUCED POLARIZATION APPARENT FREQUENCY EFFECT CONTOURS		SHEET 1	FIGURE MAP 5
Project: BEAR, BE, BW CLAIMS		Area: OMINECA MINING DIVISION, BC.	
Supervisor: E. J. Debicki	Instrument: Phoenix I.P. Unit	Survey date: July / 81	
Compiled by: B. R. Krause	Drawn by: RMK	Date drawn: Oct / 81	Revised:
Scale: 1:5000	File:	N.T.S. 94 D 2 W	



LEGEND

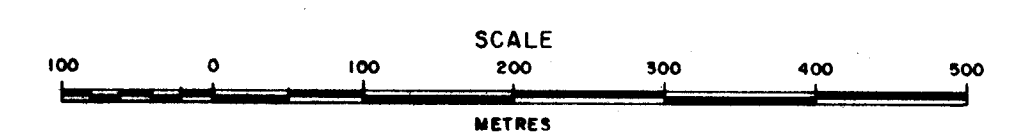
Station Location and N-I Plot of Apparent Frequency Effect and Apparent Resistivity

Anomaly Classification: **Strong** Medium Weak Possible

Contour Interval - logarithmic

Note: Grid co-ordinates are Imperial (feet)

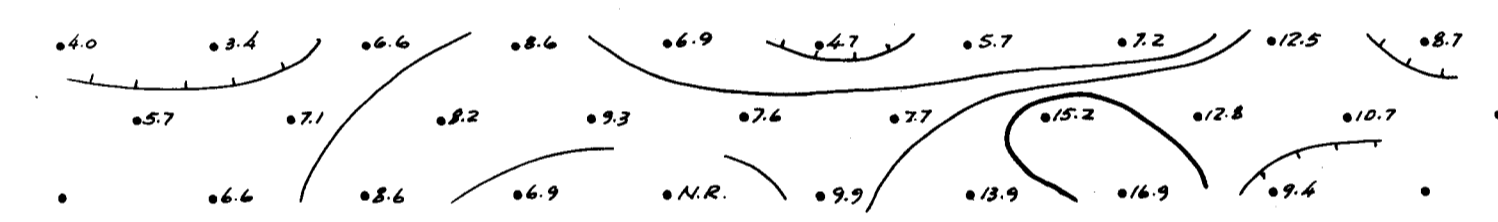
9534



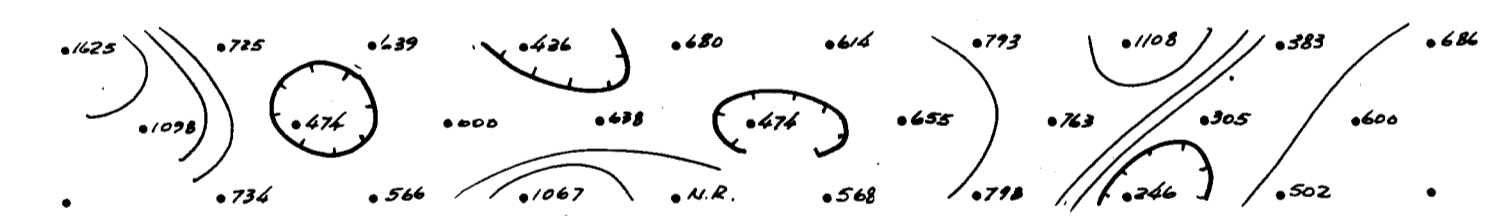
Canadian Nickel Company Limited		Copper Cliff, Ontario	
INDUCED POLARIZATION APPARENT RESISTIVITY CONTOURS		SHEET	FIGURE
		I	MAP 6
Project: BEAR, BE, BW CLAIMS		Area: OMINECA MINING DIVISION, BC.	
Supervisor: E.J. Debecki	Instrument: Phoenix I.P. Unit	Survey date: July / 81	
Compiled by: B.R. Krause	Drawn by: RMK	Date drawn: Oct. / 81	
Scale: 1:5000	File:	NTS: 94 D 2 W	

36S 33S 30S 27S 24S 21S 18S 15S 12S 9S 6S 3S 00

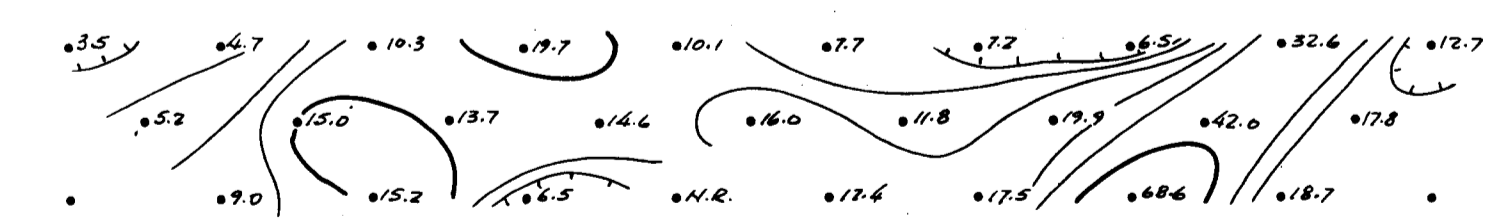
91.4 m



APPARENT FREQUENCY EFFECT (%)

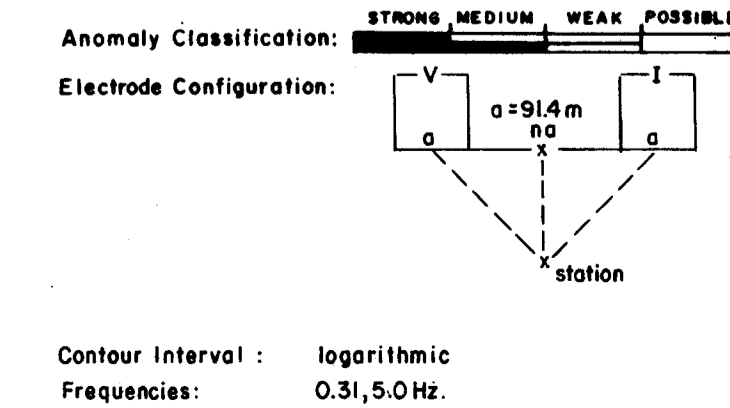


APPARENT RESISTIVITY
($\rho_a/2\pi$); Ωm

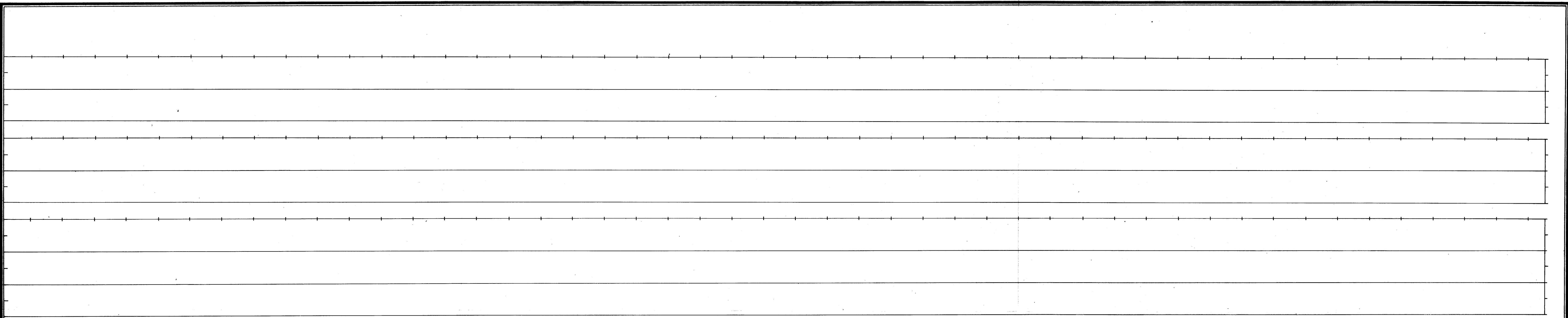


APPARENT METAL FACTOR
[%FE/($\rho_a/2\pi$)] x 1000

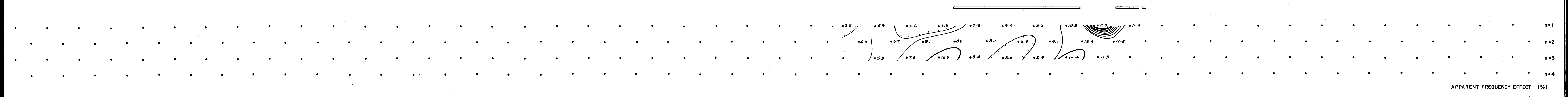
9534



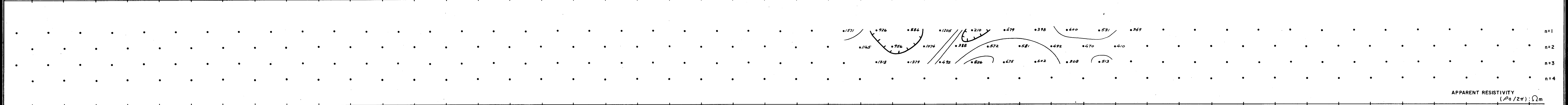
Canadian Nickel Company Limited		Copper Cliff, Ontario POM 1NG	
INDUCED POLARIZATION AND RESISTIVITY			LINE NUMBER 00 B/L
Project: BEAR, BE, BW CLAIMS		Area: OMENICA MINING DIVISION, BC.	
Supervisor: E. J. Debicki	Instrument: Phoenix	Domain: Frequency	Survey date: June / 81
Party Leader:	Date drawn: RMK	Array: Dipole-dipole	Revised:
Crew: Phoenix Geophysics Ltd.		Date drawn: Sept. / 81	
Scale: 1:3600	File:	NTS. 94 D 2 W	



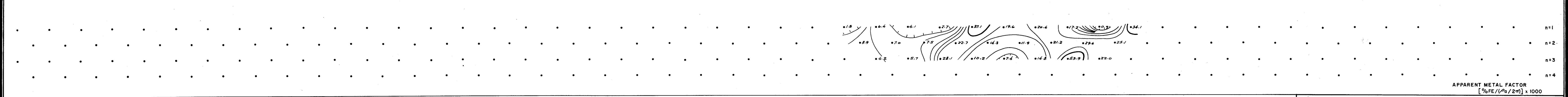
36S 33S 30S 27S 24S 21S 18S 15S 12S 9S 6S 3S 00 91.4 m



APPARENT FREQUENCY EFFECT (%)



APPARENT RESISTIVITY ($\rho_a/2\pi$) Ωm

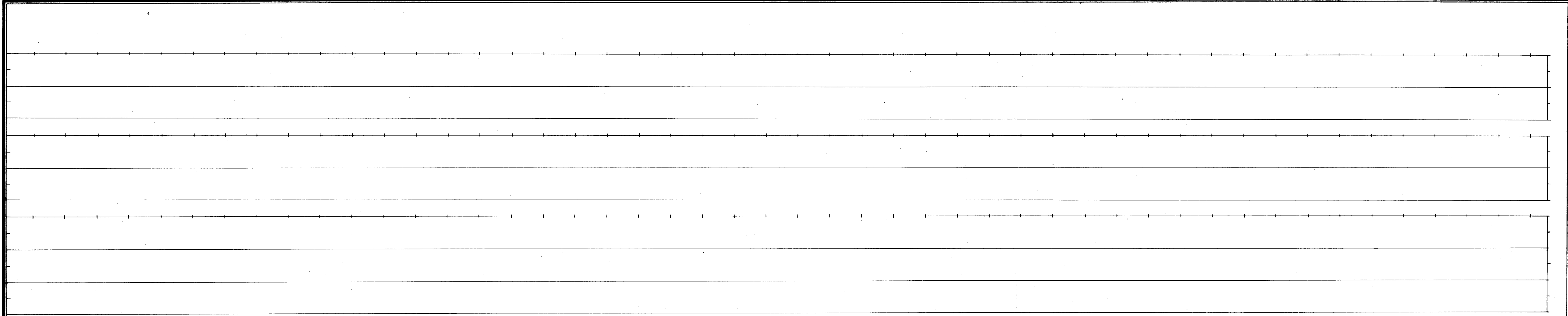


APPARENT METAL FACTOR [%FE/($\rho_a/2\pi$)] x 1000

9534

Anomaly Classification: **STRONG MEDIUM WEAK POSSIBLE**
 Electrode Configuration:
 Contour Interval: logarithmic
 Frequencies: 0.31, 5.0 Hz

Canadian Nickel Company Limited		Copper Cliff, Ontario POM 1N0	
INDUCED POLARIZATION AND RESISTIVITY			LINE NUMBER 500 W
Project: BEAR, BE, BW CLAIMS		Area: OMENICA MINING DIVISION, BC.	
Supervisor: E.J. Debicki	Instrument: Phoenix	Domain: Frequency	Survey date: June / 81
Party Leader:	Array: Dipole-dipole	Date drawn: Sept. / 81	Revised:
Crew: Phoenix Geophysics Ltd.	Drawn by: RMK	File:	N.T.S. 94 D 2 W
Scale: 1:3600			



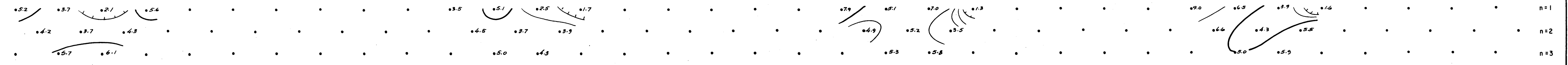
14E 17E 20E 23E 26E 29E 32E 15E 18E 21E 24E 27E 30E 33E 15E 18E 21E 24E 27E 30E 33E 15E 18E 21E 24E 27E 30E 33E 91.4 m

Line 2000S

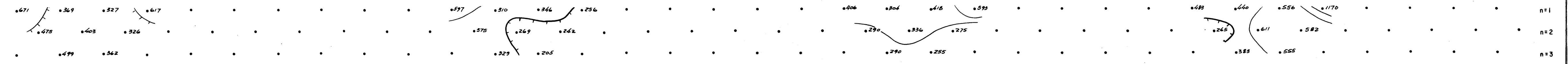
Line 2500S

Line 3000S

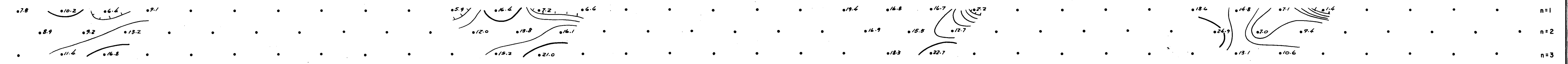
Line 3500S



APPARENT FREQUENCY EFFECT (%)

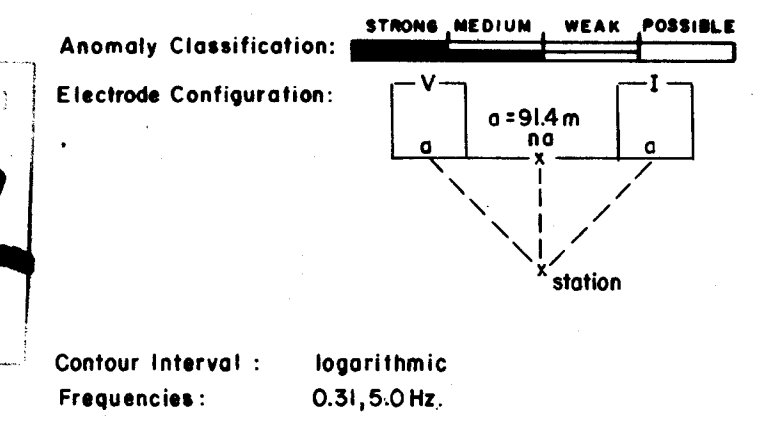


APPARENT RESISTIVITY
($\rho_a/2\pi$): Ωm



APPARENT METAL FACTOR
[%FE/($\rho_a/2\pi$) x 1000]

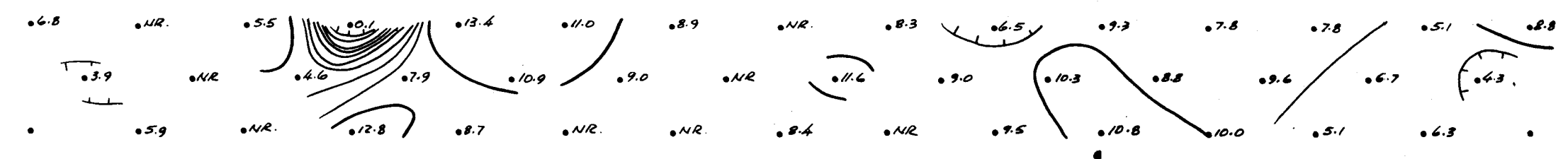
MINING DIVISION
9534



Canadian Nickel Company Limited		Copper Cliff, Ontario POM 1N0	
INDUCED POLARIZATION AND RESISTIVITY		LINE NUMBER 2000S to 3500S	
Project: BEAR, BE, BW CLAIMS		Area: OMENICA MINING DIVISION, BC.	
Supervisor: E.J. Debicki	Instrument: Phoenix	Domain: Frequency	Survey date: June /81
Party Leader: Phoenix Geophysics Ltd.	Array: Dipole-dipole	Date drawn: Sept. /81	Revised:
Crew: Phoenix Geophysics Ltd.	Drawn by: RMK	File:	NTS. 94 D 2 W
Scale: 1:3600			

21W 18W 15W 12W 9W 6W 3W 0 3E 6E 9E 12E 15E 18E 21E 24E 27E 30E 33E

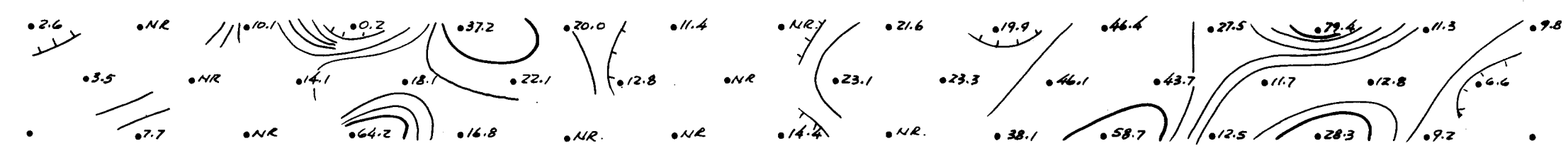
91.4 m



APPARENT FREQUENCY EFFECT (%)

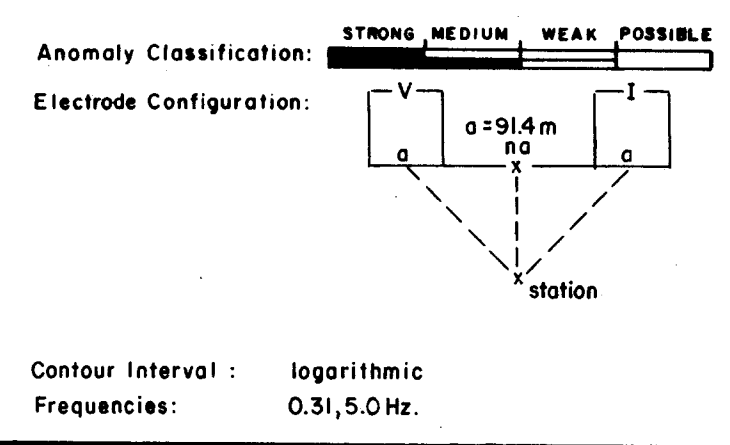


APPARENT RESISTIVITY ($\rho_a/2\pi$): Ωm

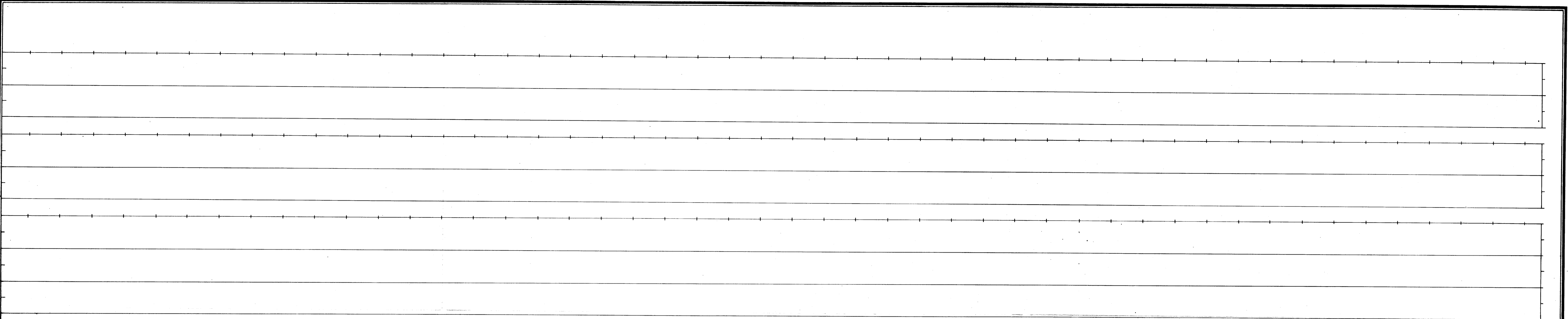


APPARENT METAL FACTOR [%FE/($\rho_a/2\pi$)] x 1000

9534

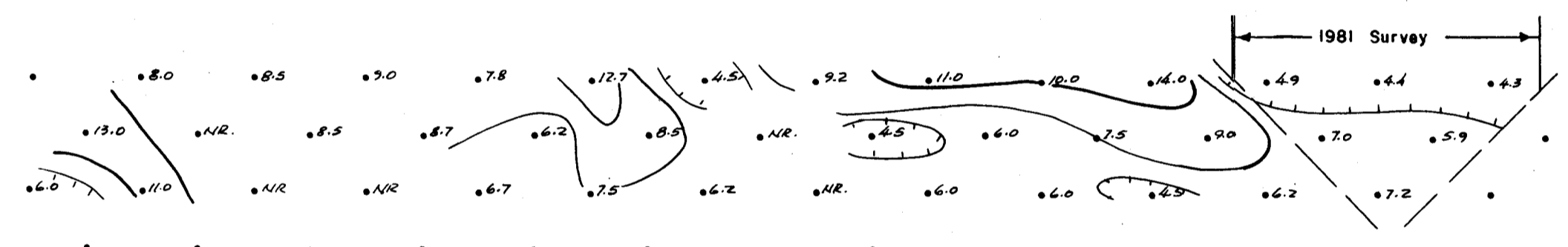


Canadian Nickel Company Limited		Copper Cliff, Ontario POM 1N0	
INDUCED POLARIZATION AND RESISTIVITY		LINE NUMBER 500 S	
Project: BEAR, BE, BW CLAIMS		Area: OMENICA MINING DIVISION, BC.	
Supervisor: E.J. Debicki	Instrument: Phoenix	Domain: Frequency	Survey date: June / 81
Party Leader:	Drawn by: RMK	Array: Dipole-dipole	Revised:
Crew: Phoenix Geophysics Ltd.		Date drawn: Sept. / 81	
Scale: 1:3600	File:	NTS. 94 D 2 W	

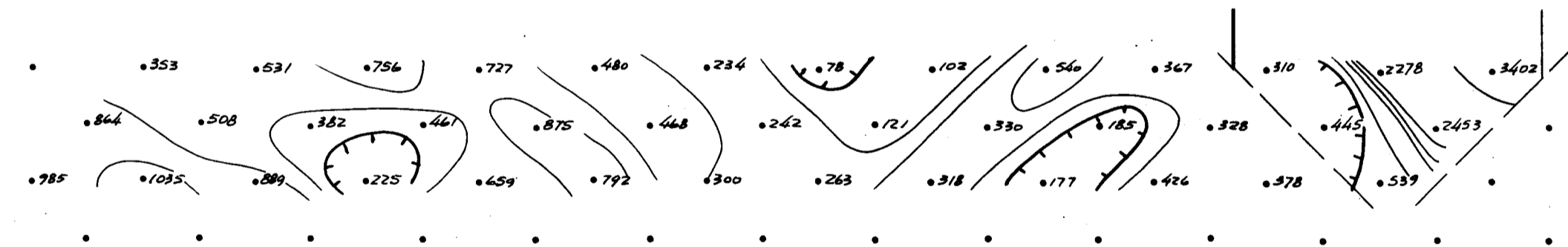


18W 15W 12W 9W 6W 3W 0 3E 6E 9E 12E 15E 18E 21E 24E 27E 30E 33E

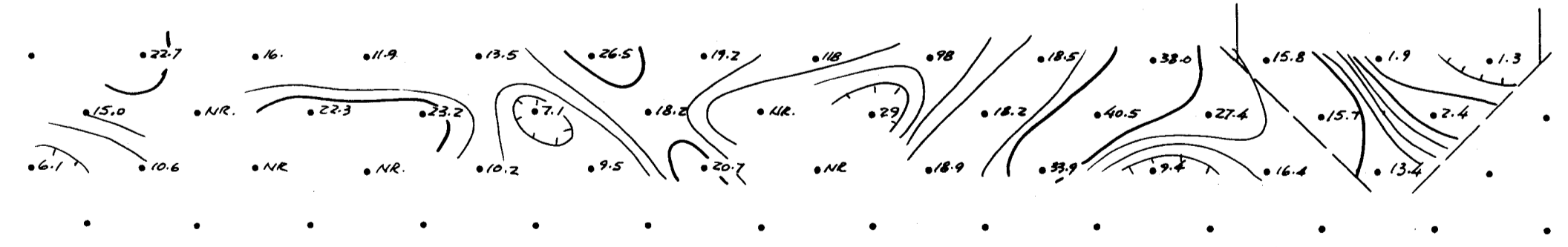
91.4 m



APPARENT FREQUENCY EFFECT (%)



APPARENT RESISTIVITY (ρ_a/2π) Ωm



APPARENT METAL FACTOR [%FE/(ρ_a/2π)] x 1000

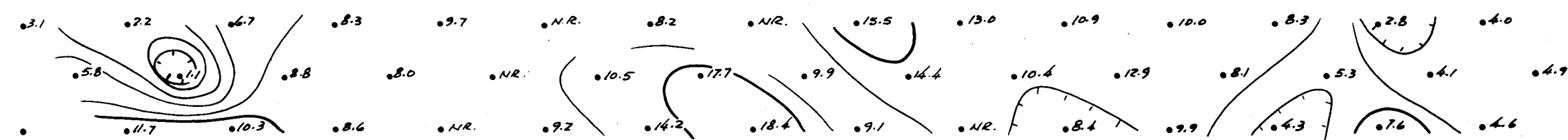
9534

Anomaly Classification: STRONG MEDIUM WEAK POSSIBLE
 Electrode Configuration:
 Contour Interval: logarithmic
 Frequencies: 0.31, 5.0 Hz.

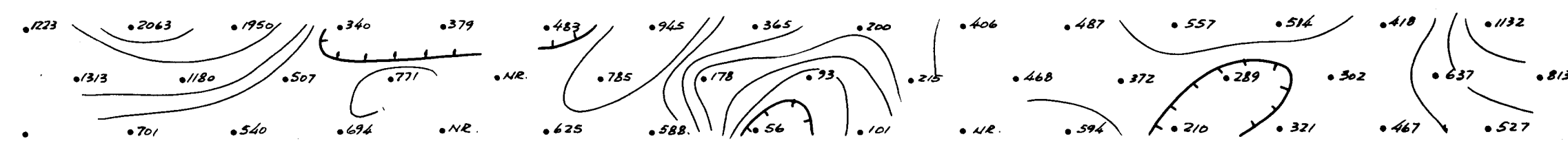
Canadian Nickel Company Limited		Copper Cliff, Ontario	
INDUCED POLARIZATION AND RESISTIVITY		POM 1NO	
Project: BEAR, BE, BW CLAIMS		Area: OMENICA MINING DIVISION, BC.	
Supervisor: E. J. Debicki	Instrument: Phoenix	Domain: Frequency	Survey date: June / 81
Party Leader:	Date drawn: RMK	Array: Dipole-Dipole	Revised:
Crew: Phoenix Geophysics Ltd.	File:	Date drawn: Sept. / 81	NTS: 94 D 2 W
Scale: 1:3600			

21W 18W 15W 12W 9W 6W 3W 0 3E 6E 9E 12E 15E 18E 21E 24E 27E 30E 33E

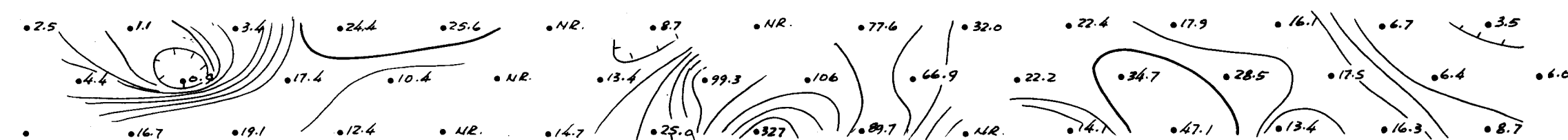
91.4 m



APPARENT FREQUENCY EFFECT (%)



APPARENT RESISTIVITY ($\rho_a / 2\pi$) : Ωm



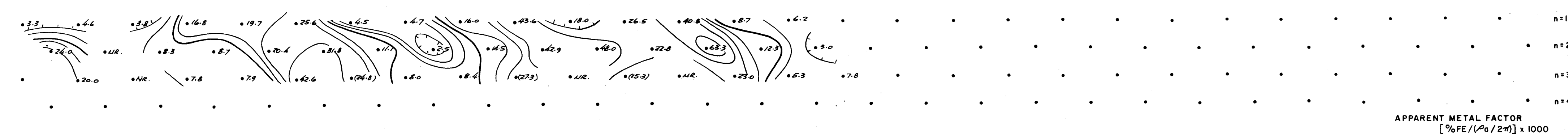
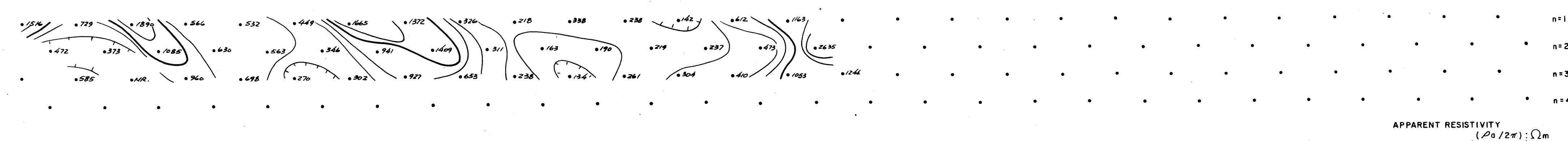
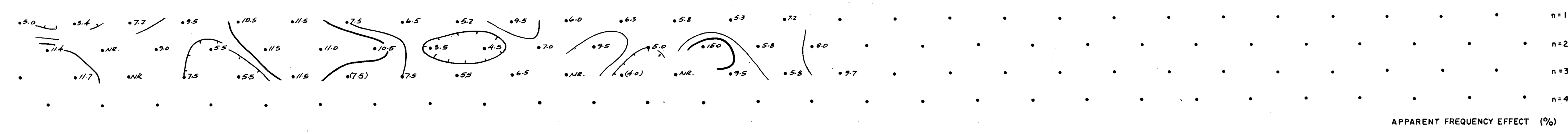
APPARENT METAL FACTOR [%FE / ($\rho_a / 2\pi$)] x 1000

9534

Anomaly Classification: STRONG MEDIUM WEAK POSSIBLE
 Electrode Configuration:
 Contour Interval: logarithmic
 Frequencies: 0.31, 5.0 Hz

Canadian Nickel Company Limited		Copper Cliff, Ontario POM 1N0	
INDUCED POLARIZATION AND RESISTIVITY			LINE NUMBER 1500 S
Project: BEAR, BE, BW CLAIMS		Area: OMENICA MINING DIVISION, BC.	
Supervisor: E. J. Debicki	Instrument: Phoenix	Domain: Frequency	Survey date: June / 81
Party Leader:	Drawn by: RMK	Array: Dipole-dipole	Date drawn: Sep / 81
Crew: Phoenix Geophysics Ltd.			Revised:
Scale: 1:3600	File:		NTS. 94 D 2 W

21W 18W 15W 12W 9W 6W 3W 00 3E 6E 9E 12E 15E 18E 21E 24E 27E 30E 33E 36E 91.4 m

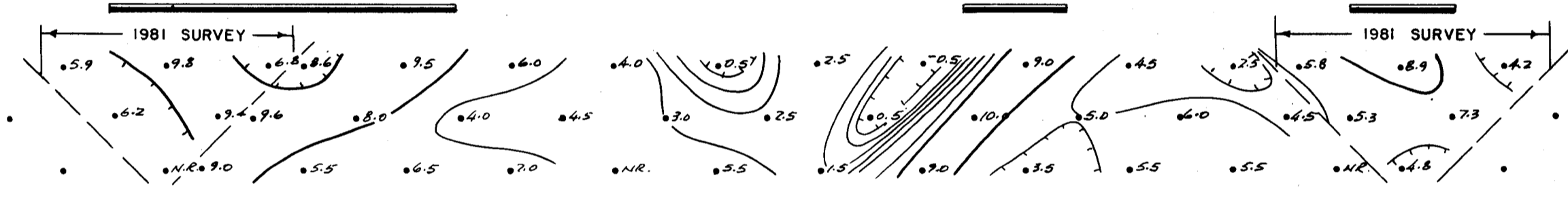


9534

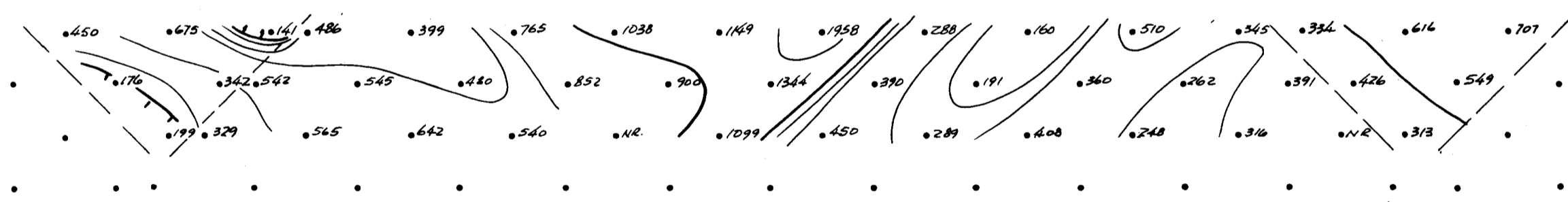
Anomaly Classification: STRONG MEDIUM WEAK POSSIBLE
 Electrode Configuration:
 Contour interval: logarithmic
 Frequencies: 0.31, 5.0 Hz

Canadian Nickel Company Limited				Copper Cliff, Ontario POM 1N0	
INDUCED POLARIZATION AND RESISTIVITY				LINE NUMBER 00	
Project: BEAR, BE, BW CLAIMS		Area: OMENICA MINING DIVISION, BC.			
Supervisor: E. J. Debicki	Instrument: Phoenix	Domain: Frequency	Array: Dipole-dipole	Survey date: June / 81	
Party Leader:	Drawn by: RMK	Date drawn: Sept. / 81	Revised:		
Crew: Phoenix Geophysics Ltd.	File:	NTS. 94 D 2 W			
Scale: 1:3600					

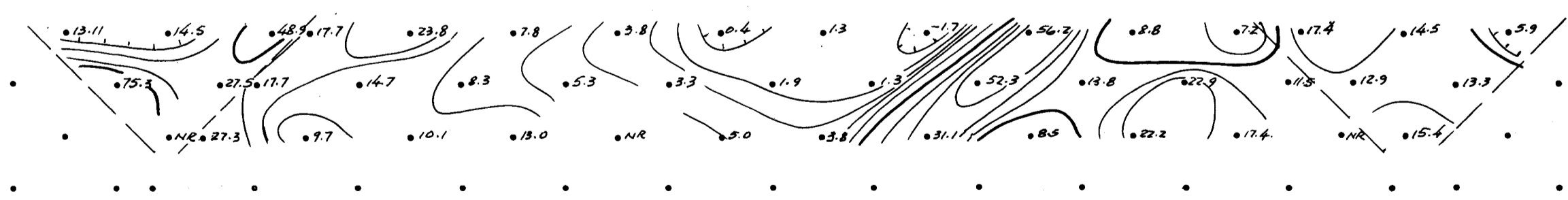
16W 13W 10W 7W 4W 1W 2E 5E 8E 11E 14E 17E 20E 23E 26E 29E 32E 91.4 m



APPARENT FREQUENCY EFFECT (%)



APPARENT RESISTIVITY ($\rho_a/2\pi$): Ωm



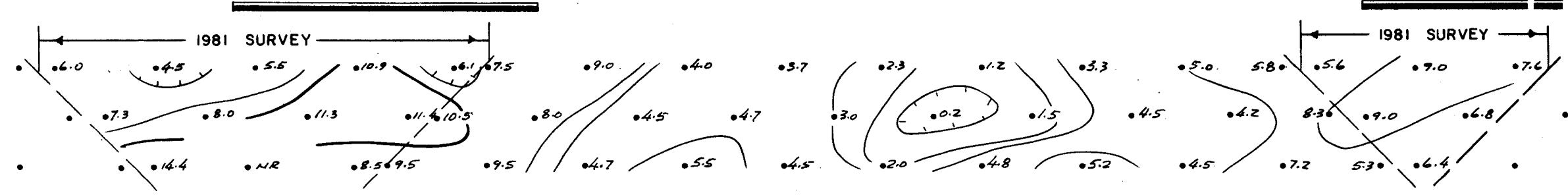
APPARENT METAL FACTOR [$\%FE/(\rho_a/2\pi) \times 1000$]

9534

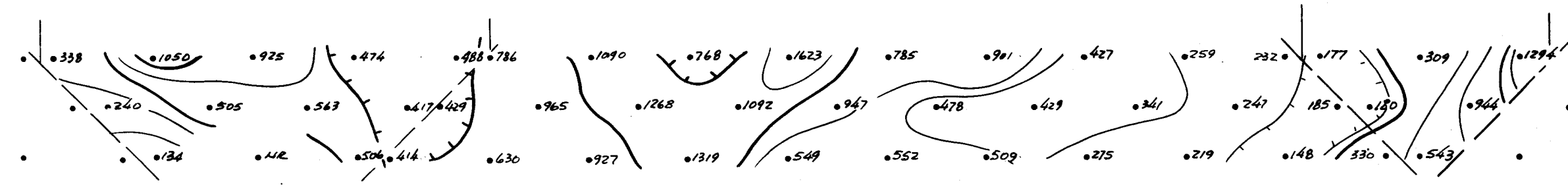
Anomaly Classification: STRONG MEDIUM WEAK POSSIBLE
 Electrode Configuration:
 Contour Interval: logarithmic
 Frequencies: 0.31, 5.0 Hz

Canadian Nickel Company Limited		Copper Cliff, Ontario POM 1N0	
INDUCED POLARIZATION AND RESISTIVITY		LINE NUMBER 500 N	
Project: BEAR, BE, BW CLAIMS		Area: OMENICA MINING DIVISION, BC.	
Supervisor: E.J. Debicki	Instrument: Phoenix	Domain: Frequency	Survey date: June /81
Party Leader:	Drawn by: RMK	Array: Dipole-dipole	Revised:
Crew: Phoenix Geophysics Ltd.		Date drawn: Sept. /81	
Scale: 1:3600	File:	NTS. 94 D 2 W	

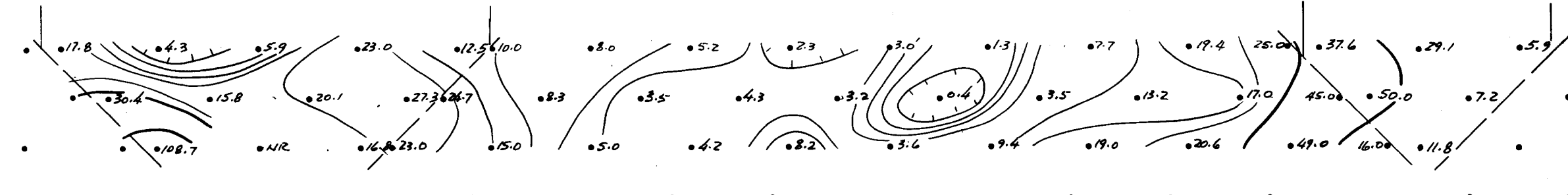
22W 19W 16W 13W 10W 7W 4W 1W 1E 4E 7E 10E 13E 16E 19E 22E 25E 28E 31E 91.4m



APPARENT FREQUENCY EFFECT (%)



APPARENT RESISTIVITY ($\rho_a / 2\pi$); Ωm



APPARENT METAL FACTOR [$\%FE / (\rho_a / 2\pi)$] x 1000

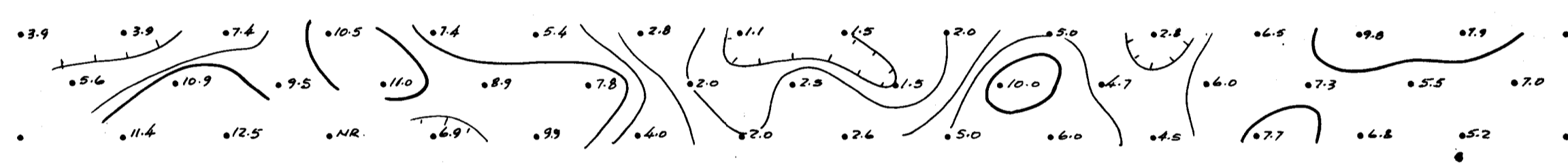
953A
NO.

Anomaly Classification: STRONG MEDIUM WEAK POSSIBLE
 Electrode Configuration:
 Contour Interval: logarithmic
 Frequencies: 0.31, 5.0 Hz.

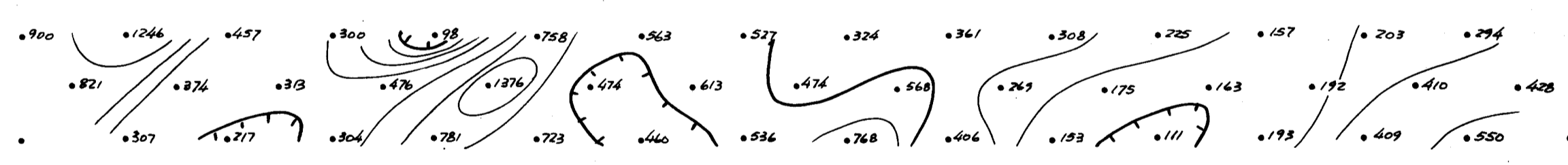
Canadian Nickel Company Limited		Copper Cliff, Ontario POM 1N0	
INDUCED POLARIZATION AND RESISTIVITY		LINE NUMBER 1000 N	
Project: BEAR, BE, BW CLAIMS		Area: OMENICA MINING DIVISION, BC.	
Supervisor: E.J. Debicki	Instrument: Phoenix	Domain: Frequency	Survey date: June / 81
Party Leader:	Drawn by: RMK	Array: Dipole-dipole	Date drawn: Sept. / 81
Crew: Phoenix Geophysics Ltd.			Revised:
Scale: 1:3600	File:	NTS. 94 D 2 W	

21 W 18 W 15 W 12 W 9 W 6 W 3 W 0 3 E 6 E 9 E 12 E 15 E 18 E 21 E 24 E 27 E 30 E 33 E

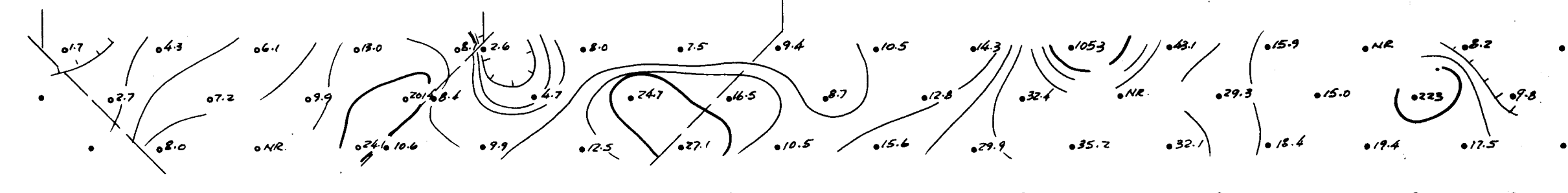
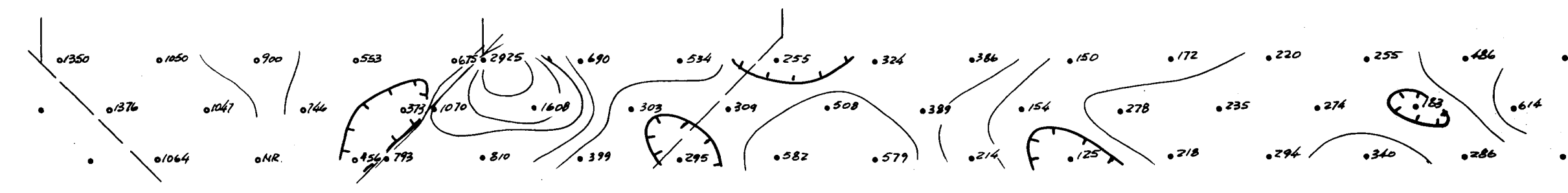
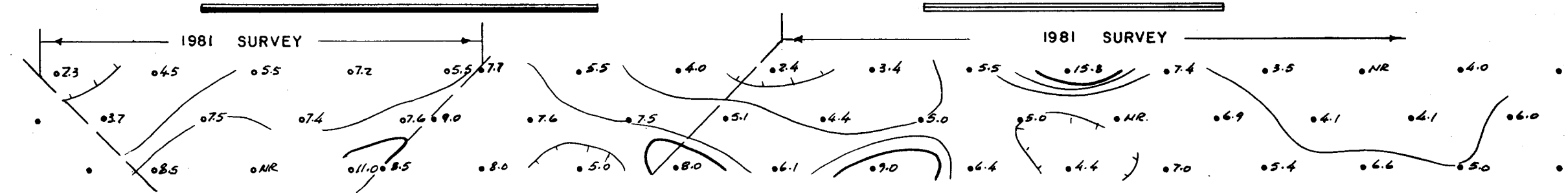
91.4 m



APPARENT FREQUENCY EFFECT (%)



22W 19W 16W 13W 12W 10W 9W 7W 6W 4W 3W 1W 0 3E 6E 9E 12E 15E 18E 21E 24E 27E 30E 33E 91.4 m



n=1

n=2

n=3

n=4

APPARENT FREQUENCY EFFECT (%)

n=1

n=2

n=3

n=4

APPARENT RESISTIVITY (ρ₀/2π) Ωm

n=1

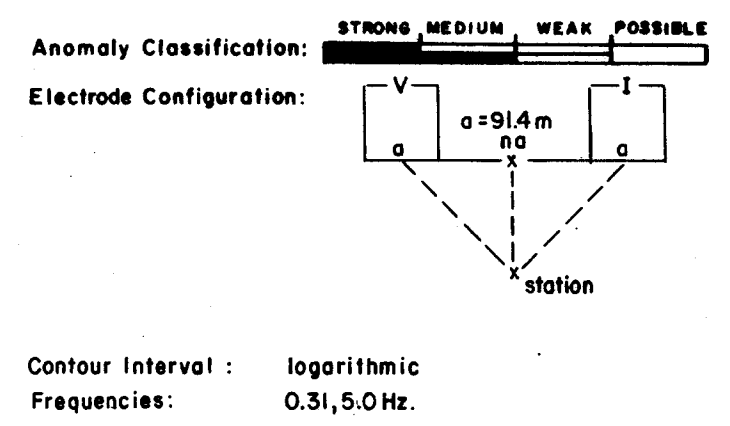
n=2

n=3

n=4

APPARENT METAL FACTOR [%FE/(ρ₀/2π)] x 1000

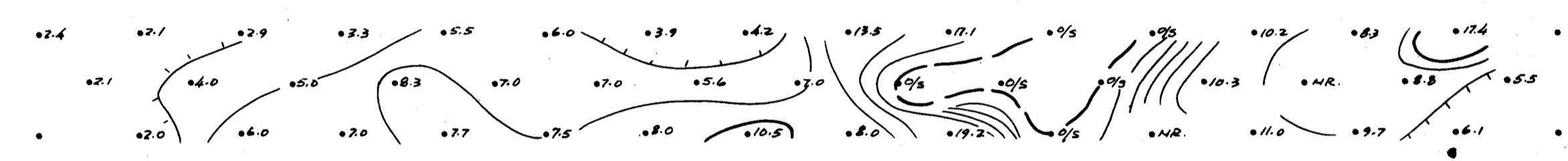
9534



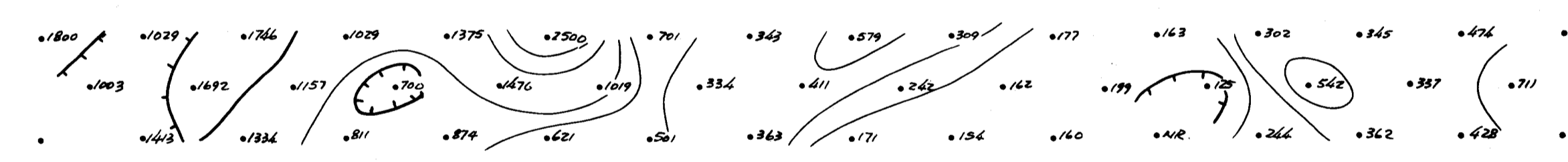
Canadian Nickel Company Limited		Copper Cliff, Ontario POM 1N0	
INDUCED POLARIZATION AND RESISTIVITY			LINE NUMBER 2000 N
Project: BEAR, BE, BW CLAIMS		Area: OMENICA MINING DIVISION, BC.	
Supervisor: E. J. Debicki	Instrument: Phoenix	Domain: Frequency	Survey date: June / 81
Party Leader:	Drawn by: RMK	Date drawn: Sept. / 81	Revised:
Crew: Phoenix Geophysics Ltd.	File:	N.T.S. 94 D 2 W	
Scale: 1:3600			

21W 18W 15W 12W 9W 6W 3W 0 3E 6E 9E 12E 15E 18E 21E 24E 27E 30E 33E

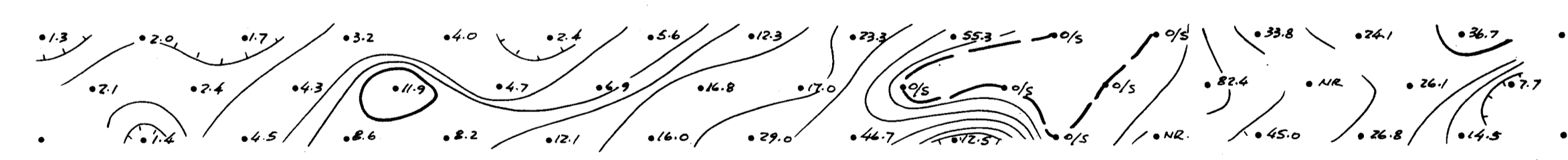
91.4 m



APPARENT FREQUENCY EFFECT (%)



APPARENT RESISTIVITY (Pa/2π) Ωm



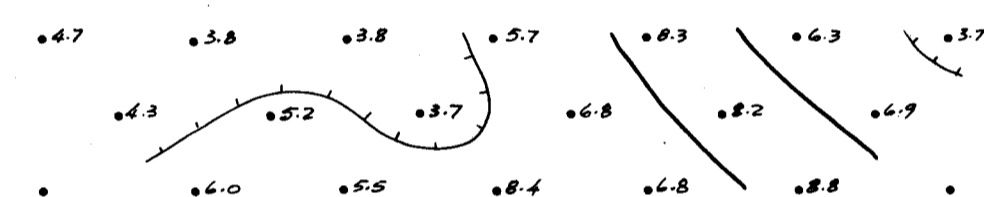
APPARENT METAL FACTOR [%FE/(Pa/2π)] x 1000

953A

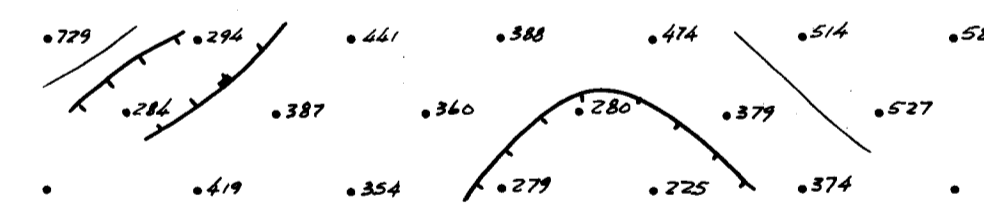
Anomaly Classification: STRONG MEDIUM WEAK POSSIBLE
 Electrode Configuration:
 Contour Interval: logarithmic
 Frequencies: 0.31, 5.0 Hz

Canadian Nickel Company Limited		Copper Cliff, Ontario POM 1N0	
INDUCED POLARIZATION AND RESISTIVITY			LINE NUMBER 2500 N
Project: BEAR, BE, BW CLAIMS		Area: OMENICA MINING DIVISION, BC.	
Supervisor: E.J. Debicki	Instrument: Phoenix	Domain: Frequency	Survey date: June / 81
Party Leader:	Drawn by: RMK	Array: Dipole-dipole	Date drawn: Sept. / 81
Crew: Phoenix Geophysics Ltd.		File:	Revised:
Scale: 1:3600			NTS. 94 D 2 W

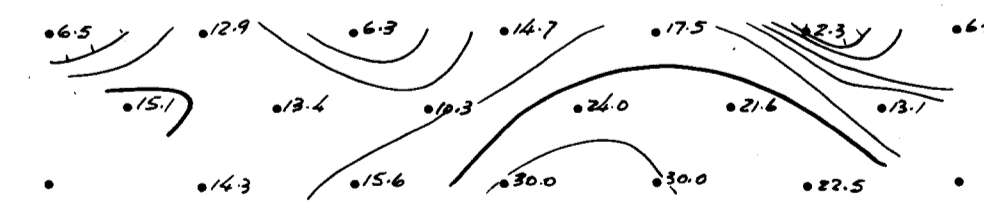
13W 10W 7W 4W 1W 2E 5E 8E 11E 14E 17E 20E 91.4 m



APPARENT FREQUENCY EFFECT (%)



APPARENT RESISTIVITY ($\rho_a / 2\pi$) ; Ωm



APPARENT METAL FACTOR [%FE / ($\rho_a / 2\pi$)] x 1000

MINING DIVISION BRANCH
FIELD REPORT
9534

Anomaly Classification: **STRONG MEDIUM WEAK POSSIBLE**
 Electrode Configuration:
 Contour Interval: logarithmic
 Frequencies: 0.31, 5.0 Hz.

Canadian Nickel Company Limited		Copper Cliff, Ontario POM 1N0	
INDUCED POLARIZATION AND RESISTIVITY		LINE NUMBER 3500 N	
Project: BEAR, BE, BW CLAIMS		Area: OMENICA MINING DIVISION, BC.	
Supervisor: E.J. Debicki	Instrument: Phoenix	Domain: Frequency	Survey date: June / 81
Party Leader:	Drawn by: RMK	Array: Dipole-dipole	Revised:
Crew: Phoenix Geophysics Ltd.		Date drawn: Sept. / 81	
Scale: 1:3600	File:	N.T.S. 94 D 2 W	