

1991 ASSESSMENT REPORT
ON THE
MISTY NIE PROPERTY

SUB-RECORDER <small>RECORDING</small>
DEC 11 1991
MR. # _____ \$ _____
VANCOUVER, B.C.

NTS: 104K/8
Lat: 58° 20'N
Long: 132° 18'W

LOG NO: DEC 18 1991 RD.
ACTION:
FILE NO:

OWNER: Chevron Minerals Limited
400 - 815 West Hastings Street
Vancouver, B.C.
V6C 3G9

OPERATOR: North American Metals Corporation
1000 - 700 West Pender Street
Vancouver, B.C.
V6C 1G8

AUTHOR: P. Southam

DATE: December, 1991

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,947

Distribution

2 - Mining Recorder
1 - NAM file
1 - NAM field

ARIS SUMMARY SHEET

District Geologist, Smithers

Off Confidential: 92.09.17

ASSESSMENT REPORT 21947

MINING DIVISION: Atlin

PROPERTY: Misty Nie
 LOCATION: LAT 58 19 00 LONG 132 18 00
 UTM 08 6466928 658163
 NTS 104K08W

CLAIM(S): Honk, Nie 1-5
 OPERATOR(S): Homestake Min. Dev.

AUTHOR(S): Southam, P.J.
 REPORT YEAR: 1991, 65 Pages

COMMODITIES

SEARCHED FOR: Gold, Silver

KEYWORDS: Triassic, Augite porphyry, Lapilli tuffs, Chlorite schists, Argillites
 Limestones, Diorites, Quartz monzonites, Ultramafics

WORK

ONE: Geological, Geochemical, Geophysical, Physical
 EMGR 6.9 km; VLF
 Map(s) - 2; Scale(s) - 1:2000
 GEOL 500.0 ha
 Map(s) - 4; Scale(s) - 1:2000
 MAGG 6.9 km
 Map(s) - 2; Scale(s) - 1:2000
 ROCK 182 sample(s); ME
 Map(s) - 1; Scale(s) - 1:10 000
 SILT 72 sample(s); ME
 SOIL 361 sample(s); ME
 Map(s) - 5; Scale(s) - 1:2000
 TREN 65.0 m 8 trench(es)
 Map(s) - 1; Scale(s) - 1:200

RELATED

REPORTS: 16726
 MINFILE: 104K 081, 104K 092

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SUMMARY

Grid-controlled mapping, sampling, trenching and geophysics over the Ultramafic Vein showing, mapping and sampling of the Shoulder Vein showing and mapping and reinterpretation of the Two Ounce Notch zone and northern West Wall Fault area were all part of the 1991 work program on the Misty Nie Property.

The Ultramafic Vein is a north-trending shear-hosted quartz-pyrite vein that contains significant, but not ore-grade, gold over widths of up to 3 m and over a strike length of 70 m. Post-mineralization shearing has disrupted the vein which occurs as pods of solid vein material in a yellow limonitic gouge containing quartz fragments. The zone is open in both directions along strike.

Follow-up work on the Shoulder Vein area traced the original two veins along strike for 40 m and located several more narrow (<30 cm wide) quartz veins up to seven meters apart. Two samples taken from the southern strike extension of the original veins returned grades of 3.642 oz/ton Au, 2.26 oz/ton Ag and 4.17% Pb and 1.101 oz/ton Au, 1.32 oz/ton Ag and 2.59% Pb over widths of 25 and 5 cm respectively. Other grab samples from the area returned up to 0.096 oz/ton Au. The vein system is open along strike to the north.

Mapping and reinterpretation of the West Wall Fault, including the Two Ounce Notch zone, indentified the source of the strong VLF conductor as a graphitic argillite unit that has acted as a greasy slip zone for the fault. The area is structurally complex and is strongly altered but it lacks large-scale brittle deformation which would provide openings for movement of ore-bearing fluids.

No further work is recommended on the Misty Nie property at this time.

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1.0 INTRODUCTION

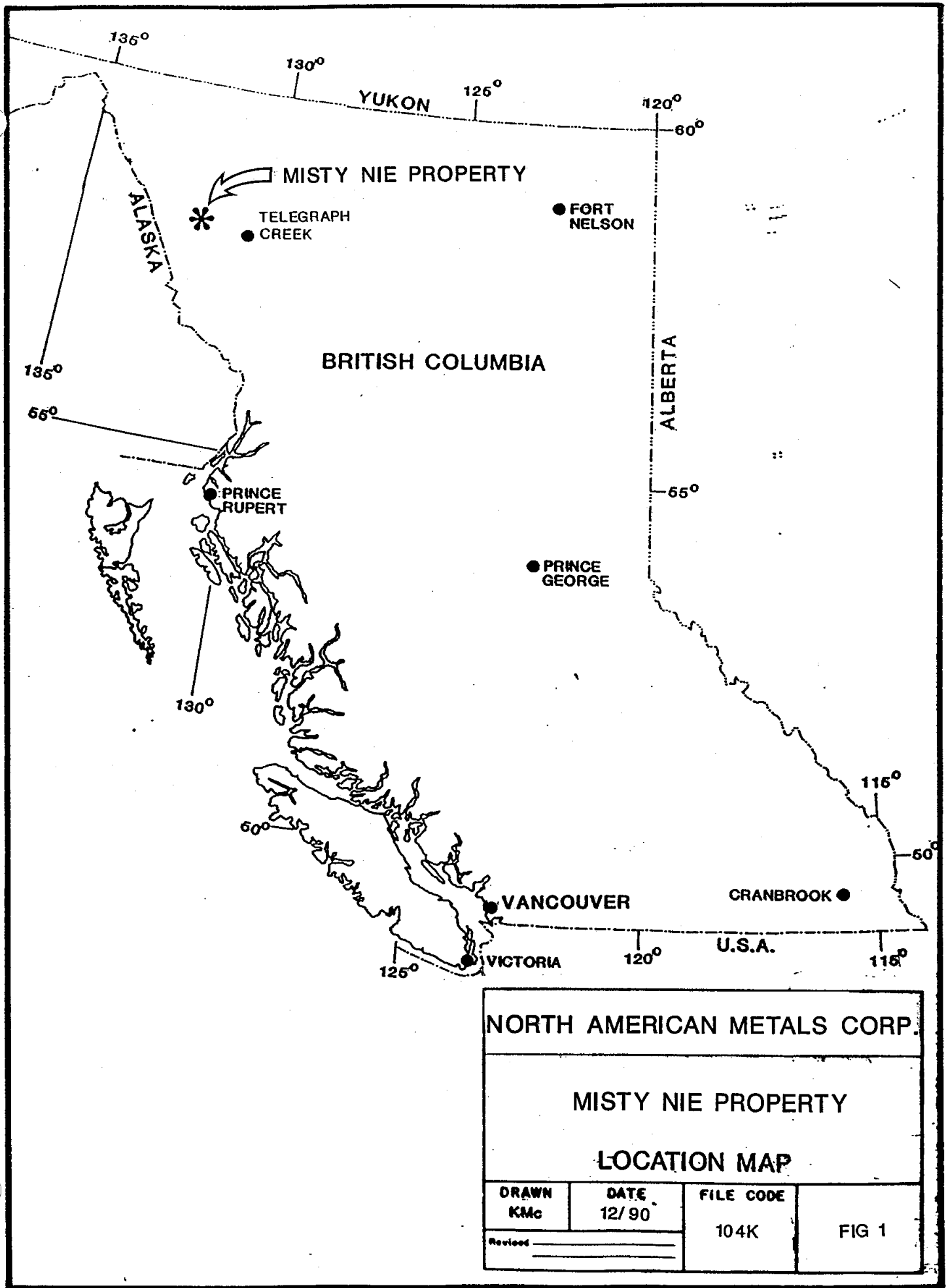
The Misty-Nie group is comprised of the Misty 1 and 2, the Nie 1 to 7, the Honk, and the El 1, El 4 and El 5 claims. The claims comprise a total of 207 units or 5175 hectares. The claims are owned 100% by Chevron Minerals Limited.

1.1 Claim Status

All claims are located in the Atlin Mining Division with the status of each listed in Table 1. North American Metals (NAM) has optioned the property from Chevron and is the operator.

CLAIM	REC. NO	UNITS	RECORDED	EXPIRY*
EL 1	201931	16	Sept. 15, 1982	Sept. 15, 1997
EL 4	201934	20	Sept. 22, 1982	Sept. 22, 1997
EL 5	201935	4	Sept. 22, 1982	Sept. 22, 1997
HONK	202642	18	Oct. 15, 1988	Oct. 15, 1997
MISTY 1	201883	20	Aug. 21, 1981	Aug. 21, 1997
MISTY 2	201884	20	Aug. 21, 1981	Aug. 21, 1997
NIE 1	201903	20	Sept. 18, 1981	Sept. 18, 1997
NIE 2	201904	20	Sept. 18, 1981	Sept. 18, 1998
NIE 3	201905	20	Sept. 18, 1981	Sept. 18, 1998
NIE 4	201906	20	Sept. 18, 1981	Sept. 18, 1997
NIE 5	201907	15	Sept. 18, 1981	Sept. 18, 1996
NIE 6	201908	10	Sept. 18, 1981	Sept. 18, 1998
NIE 7	201909	20	Sept. 18, 1981	Sept. 18, 1995

* Assuming acceptance of this report.
Table 1: Claim Status



NORTH AMERICAN METALS CORP.			
MISTY NIE PROPERTY			
LOCATION MAP			
DRAWN KMc	DATE 12/90	FILE CODE 104K	FIG 1
Revised _____			

1.2 Location, Access, and Physiography

The Misty-Nie Group is located on NTS Map 104K/8W centred at 58° 20' North latitude and 132° 20' West longitude. The claims border the south shoreline of Tatsamenie Lake (elev. 775m) which lies 84 kilometres northwest of Telegraph Creek. The property is on a relatively flat (2000m elev.) alpine plateau except for Nie 3, 5 & 6 which are montane forest descending to the lake shore. Helicopter or float plane access to the property is available from either Dease Lake or Telegraph Creek. The Golden Bear Mine lies approximately 10 kilometers south of the property on the north shore of Bearskin Lake.

1.3 Exploration History

The Misty Nie Group was staked in 1981 by Chevron Minerals Limited and intermittently worked until 1987. In 1990 Homestake Mineral Development Company under contract to NAM performed mapping and sampling on the Nie Group under an option agreement with Chevron to earn a 50% interest in the property.

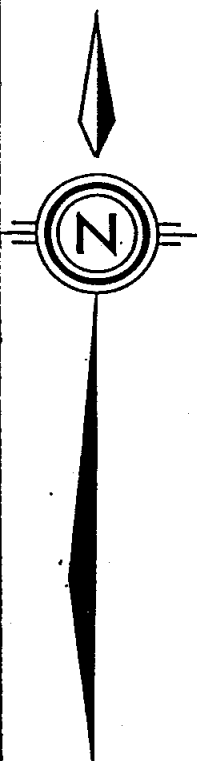
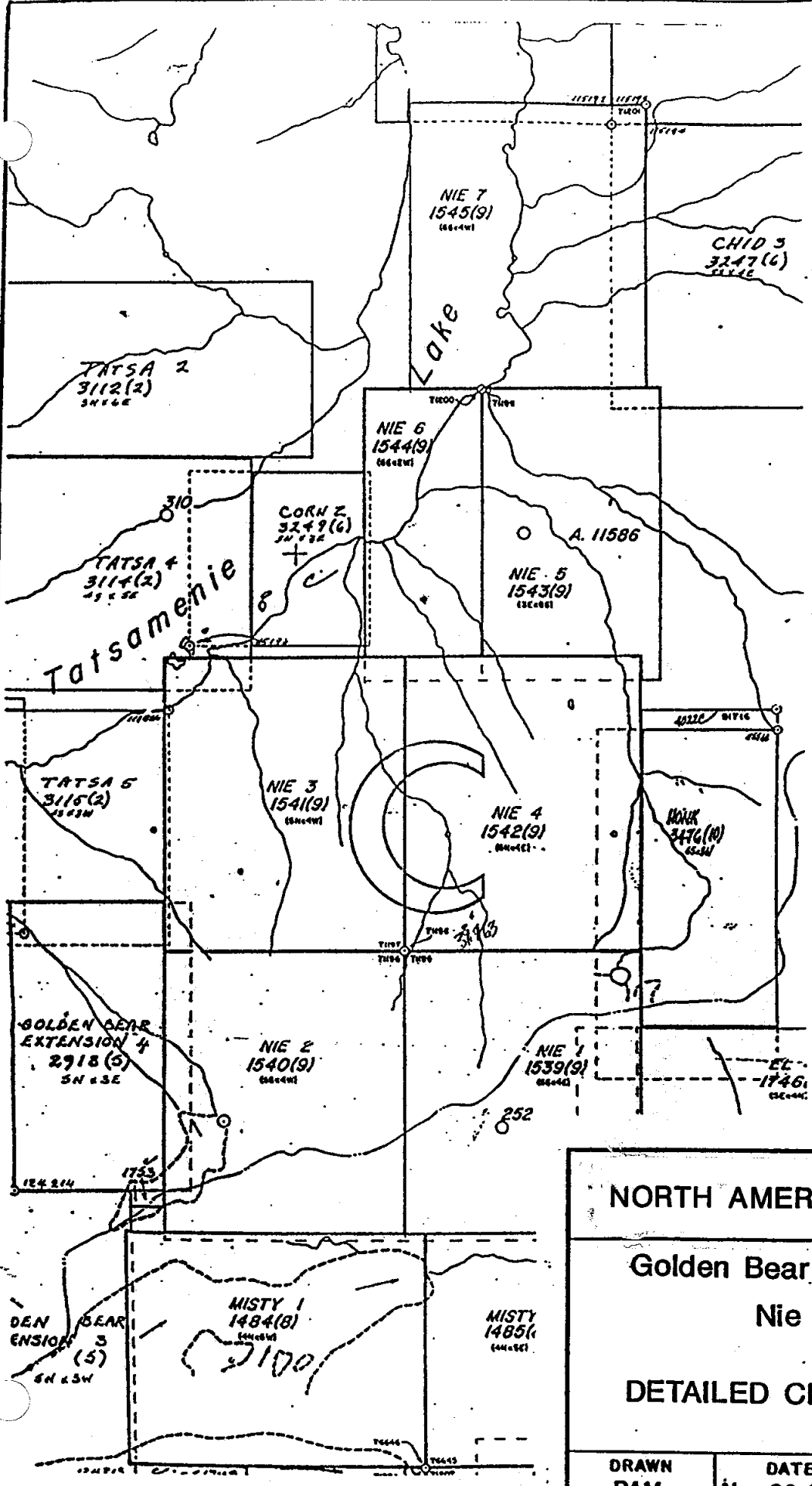
YEAR	WORK DONE
1982	Geology, rock and soil sampling.
1983	Geology, grid line, rock and soil sampling.
1984	Ground electromagnetic survey, geology, grid line, rock and soil sampling, and trenching.
1987	Diamond drilling and sampling.
1990	Geology, detailed mapping, rock and stream silt sampling.

TABLE 2: Previous Work Completed

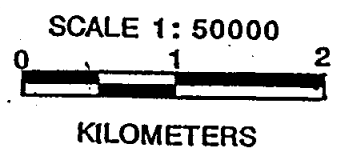
1.4 1991 Work Program

Work on the Misty-Nie property began in early July with a stream silt sampling program covering seven streams on the property. Detailed work began on the Ultramafic Vein Showing where a 7.8 line km grid was established for conducting mapping, soil sampling and geophysical surveys. The Ultramafic Vein Showing was trenched at six sites in mid-July using a high-pressure water pump and at five additional sites in mid-September by blasting.

A brief mapping and sampling program was carried out on the Shoulder Vein Showing to follow up significant results from the 1990 reconnaissance work.



note: modified from Mineral
Titles Reference Map
104K/8W May, 1990.
Department of Mines and
Petroleum Resources



NORTH AMERICAN METALS CORP.

**Golden Bear Road J.V. Project
Nie Group**

DETAILED CLAIM LOCATION

DRAWN DAM	DATE Nov. 30, 1990	FILE CODE 104K	Fig. 2
Revised _____			

Detailed mapping (1:2000) was carried out on the Two Ounce Notch zone to the east of the area previously mapped by Chevron. Five of the diamond drill holes in the Two Ounce Notch area were relogged as part of the reinterpretation of the area.

The northwest corner of the Nie 3 claim was remapped at a scale of 1:10,000 to determine the source of a strong VLF conductor trending north-northwest along strike from the Two Ounce Notch zone.

2.0 REGIONAL GEOLOGY

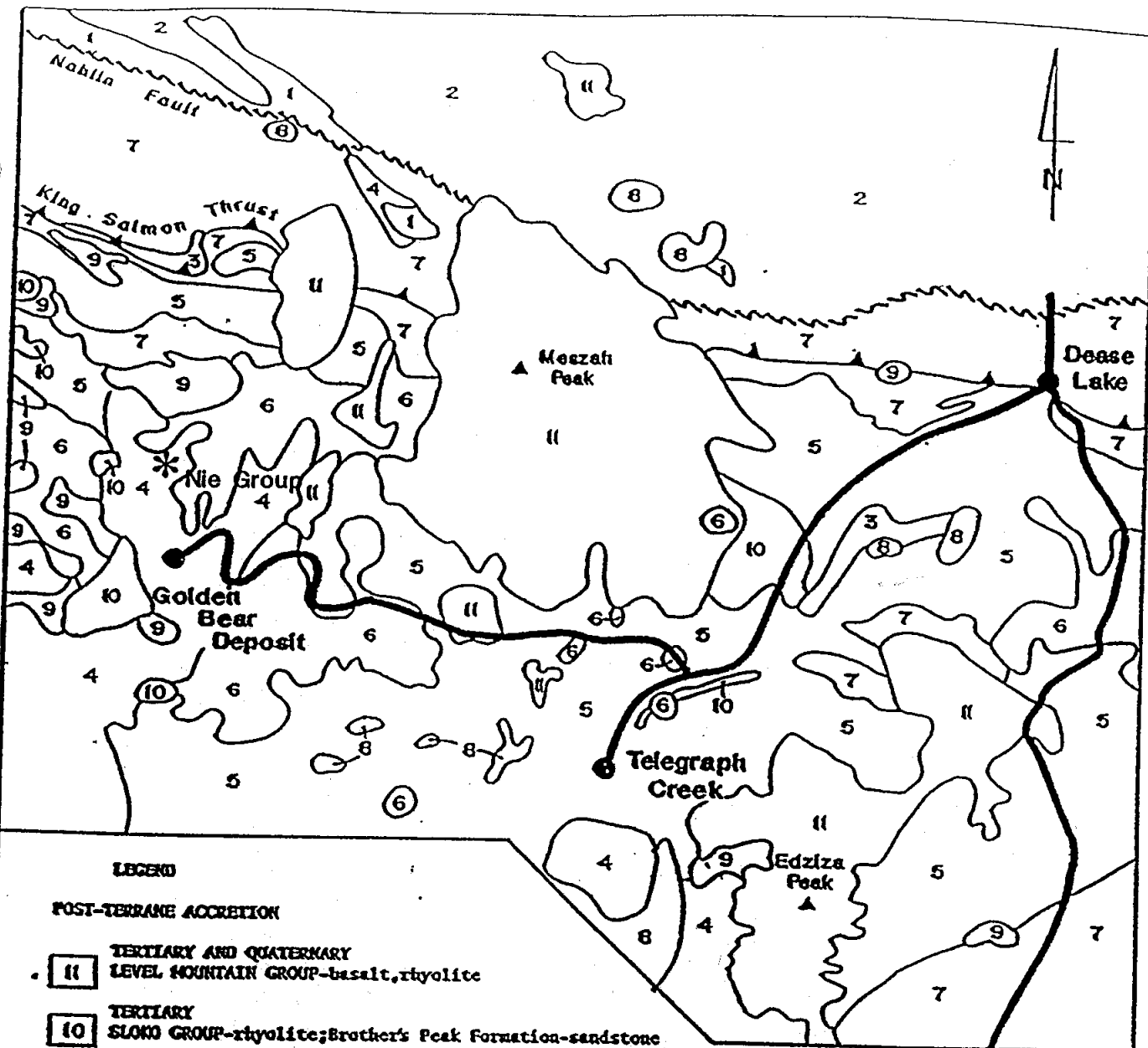
The Misty-Nie Group lies on the eastern margin of the Coast Plutonic Complex and the western margin of the Intermontane Belt within rocks of the Stikine Terrane. The Terrane consists of island arc rocks of Paleozoic, Triassic and Jurassic age; not all of these are exposed in the property area. Stikine Assemblage rocks are basal to the Terrane and are composed of Devonian to Permian limestones, argillites, cherts, and epiclastic volcanic rocks. These lithologies are distinct from similar lithologies of the younger Cache Creek Group exposed north of the Nahlin Fault, a northwest trending, steeply dipping fault located north of the property. The Stikine Assemblage is overlain by oceanic arc rocks of the Upper Triassic Stuhini Group and further to the south, the Jurassic Hazelton Group. All lithologies are crosscut by Triassic and/or Jurassic intrusions of intermediate to felsic composition.

Cretaceous and Tertiary units include felsic volcanic rocks, volcanoclastic rocks and their intrusive equivalents (Souther, 1971). Basalt to rhyolite flows make up the youngest rocks in the area (Level Mountain Basalt flows and Hearts Peak felsic flows). Three major deformation phases are present and include; Eocene extensional faults, a mid-Jurassic accretionary event (the King Salmon southwest verging thrust fault) and a pre-Middle Triassic accretionary event.

Both the Cache Creek Group and the Stikine Terrane have been subjected to low grade greenschist metamorphism in the western portion of the map area (Souther, 1971). This area has also been subjected to a regional hydrothermal alteration which has produced bright orange, red, and brown carbonate zones that are found along major structural breaks (Walton, 1990).

3.0 PROPERTY GEOLOGY

The Misty Nie property is predominantly underlain by Pre-Upper Triassic volcanic and sedimentary rocks including augite and plagioclase porphyries, massive flows, lapilli tuff, chlorite schist, argillite and limestone. These units are best exposed on the Nie 2 and Nie 3 claims in the west-central part of the property.



LEGEND

POST-TERRANE ACCRETION

- 11 TERTIARY AND QUATERNARY LEVEL MOUNTAIN GROUP-basalt, rhyolite
- 10 TERTIARY SLOKO GROUP-rhyolite; Brother's Peak Formation-sandstone
- 9 CRETACEOUS AND TERTIARY quartz monzonite, quartz diorite
- 8 JURASSIC AND CRETACEOUS diorite, granodiorite, quartz diorite
- 7 Laberge and Bowser Groups-conglomerate, sandstone

STIKINIA TERRANE

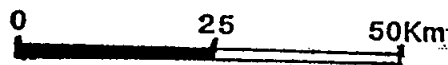
- 6 TRIASSIC diorite, granodiorite, quartz monzonite
- 5 STIKINI GROUP-mafic volcanic and sedimentary rocks
- 4 CARBONIFEROUS AND PERMIAN greenstone, limestone, schist, gneiss

CACHE CREEK TERRANE

- 3 TRIASSIC SINNA FORMATION-limestone
- 2 CARBONIFEROUS AND PERMIAN CACHE CREEK GROUP-limestone, basalt
- 1 serpentinite, periodite, gabbro, diorite

Modified from G.S.C. map 1418A-Souther, Brew and Okulitch (1979)

Scale 1:1,000,000



NORTH AMERICAN METALS CORP.

ROAD PROJECT, B.C.

REGIONAL GEOLOGY

DRAWN DAM	DATE Nov. 30, 1990	FILE CODE 104/J/4 104K/11	FIGURE 3
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The volcanic-sedimentary stratigraphy has been intruded by several intermediate intrusions of probable Upper Triassic to Jurassic age. The intrusions vary in composition from diorite to quartz monzonite and outcrop in the eastern and northern part of the property.

The Triassic and Jurassic rocks have been deformed by a series of north-south deep crustal faults, known as the Ophir Break, which hosts the Golden Bear deposit to the south. This structural zone is bound on the west side by the West Wall Fault, covered by the Misty 1, Nie 2 and 3 claims, and on the east side by the Ultramafic Fault, covered by the Honk, Nie 6 and El 1 and 4 claims. Several other major faults occurring within the structural zone are expressed as deeply incised gullies in the east-west valley in the southern part of the Nie 1 and 2 and El 4 and 5 claims.

An chain of ultramafic bodies outcrops on the western side of the Ultramafic Fault and extends from the south end of the Honk claim to the east side of Tatsamenie Lake. A second body of ultramafic rock outcrops in the southeastern part of the Nie 2 claim. It appears to have been faulted into place where the West Wall Fault splits into a series of narrow anastamosing faults.

Level Mountain basalt forms a horizontal cap on top of Pre-Upper Triassic volcanics and Jurassic diorite in the northeast corner of the Nie 1 claim. The basalt is dark grey and vesicular.

3.1 Ultramafic Grid Geology

A flagged grid was established on the Honk claim over part of the Ultramafic Fault and consisted of a 1.1 km baseline striking 360° and 200 to 650m long crosslines which extended up to 300m west and 450m east. The grid was used to control soil sampling, mapping, and geophysical surveys including magnetometer and VLF. A total of 343 soil samples were collected from the grid area. All data from the grid was plotted at a scale of 1:2000 (figures 6a, b and e to p).

Mafic volcanic rocks in the southern part of the grid have been intruded by a large stock of monzonite to monzodiorite and smaller ultramafic lenses bordering the stock. The mafic volcanics consist of augite porphyroblastic mafic flows (Oliver, 1990) and are locally sheared and folded. They have been intruded by pink to white intermediate dykes related to the nearby monzonite underlying the central area of the grid. The monzonite is strongly carbonate altered near the ultramafic contact and hosts minor sulphide mineralization in local pockets. To the west, the monzonite grades into a monzodiorite with strong chlorite alteration of mafic minerals that gives it a dark grey appearance.

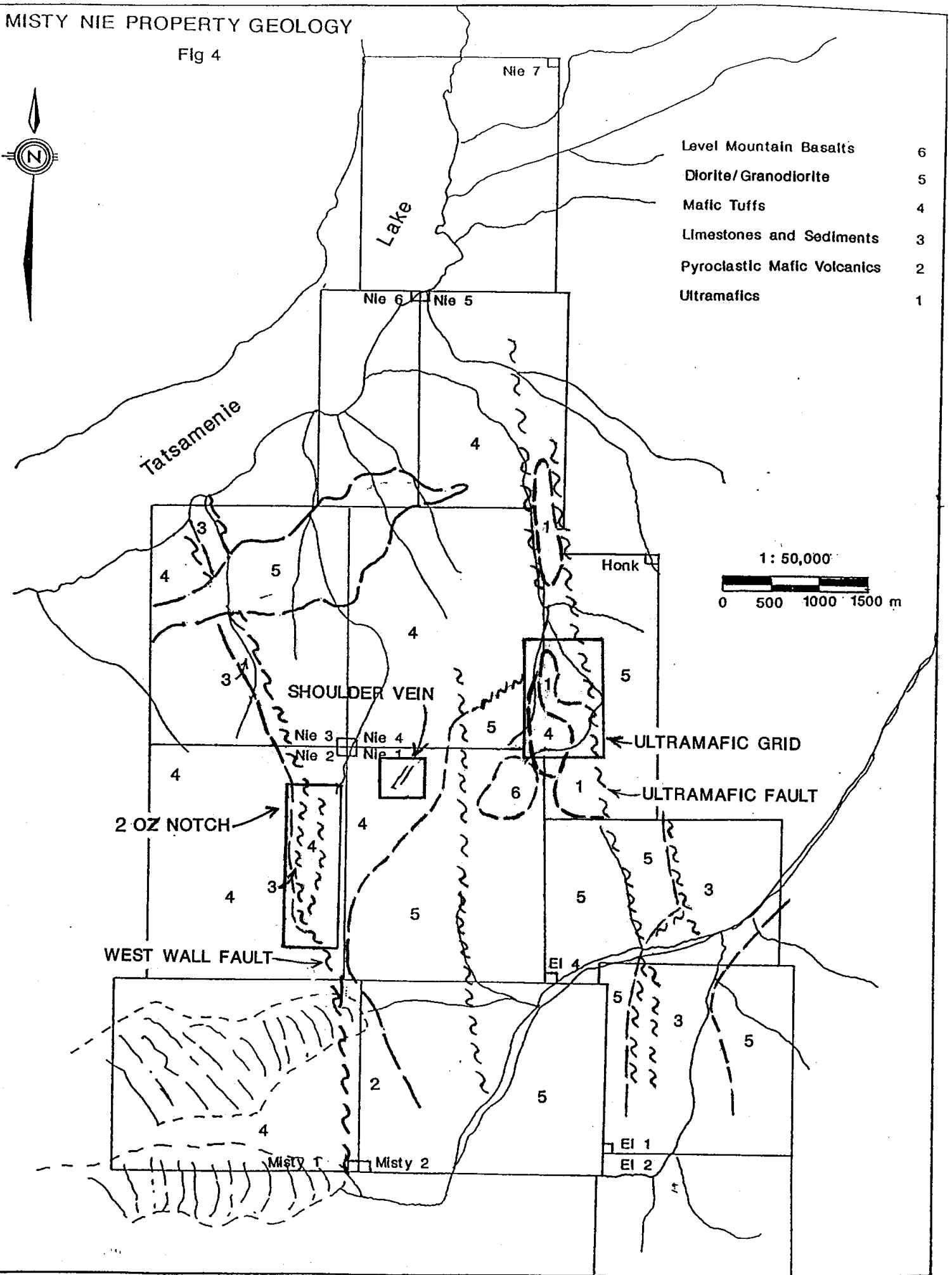
A field and petrographic study of the Honk claim by Oliver in 1990 determined that the

MISTY NIE PROPERTY GEOLOGY

Fig 4



- Level Mountain Basalts 6
- Diorite/Granodiorite 5
- Mafic Tuffs 4
- Limestones and Sediments 3
- Pyroclastic Mafic Volcanics 2
- Ultramafics 1



ultramafic is an olivine clinopyroxenite of an Alaskan type intrusive affinity and that the eastern contact of the ultramafic is at least partly fault bounded against the adjacent intermediate intrusive. The western contact of the ultramafic is obscured by talus and moraine cover.

3.1.1 Trench Geology

Trenching started at the top of the slope near the original discovery of the gold-rich quartz-pyrite vein rubble, line 1+00S, 0+53W, and worked across the slope to the north-northeast following patches of limonitic weathering in the talus to 0+33S, 0+28W. Eight trenches of up to a maximum size of 6m long and 3m wide (figure 6c) were made with a high pressure water pump. Each trench encountered quartz veining or quartz vein fragments in a limonitic gouge hosted by sheared to massive mafic volcanic rock. The shear system appears to twist from 350°/74° east in the southern-most trench to 023°/42° east in the northern most trench.

An additional five trenches were blasted on the Ultramafic Grid (figures 6a to d). Blast trenches 1 and 4 tested leached-out rusty carbonate altered zones at the crest of the ridge near line 3+00N. Neither of these trenches reached solid bedrock. Blast trench 3 was made at the same location as the washed trench #3 and exposed massive pyrite vein material. Blast trenches 2 and 5 tested a strong VLF conductor on strike with the Ultramafic Vein, but failed to reach bedrock.

3.1.2 Mineralization

The Ultramafic Vein is a shear-hosted quartz-pyrite vein with local chalcopyrite mineralization in sheared mafic volcanic rock originally thought to be an ultramafic. The fragmented vein and limonite alteration is up to 3 m wide, can be traced along strike for 70 m and is open in all directions. Post-mineralization shearing has produced pods of solid vein material surrounded by limonitic gouge containing quartz fragments and bounded by sheared and chloritized mafic volcanic.

3.1.3 Results

Twenty-nine samples were taken from trenches on the Ultramafic Grid. The best sample, No. 3591, returned 0.382 oz/ton Au, 4.56 oz/ton Ag and 2.37% Cu in a grab sample of a 40 cm wide vein pod of quartz, 15% pyrite and 10% chalcopyrite. However, two follow-up samples (3827 and 3828) of the same vein returned very low gold and similar silver and copper grades. Chip samples across the vein and alteration zone returned from less than 1 to up to 7.9 gm/tonne Au over widths of up to 2.0m (see figures 6c and d for detailed sample locations and results).

3.2 Two Ounce Notch Geology

The Two Ounce Notch zone is underlain by the Pre-Upper Triassic mafic volcanics and sediments. The stratigraphy appears to trend north-south and dip steeply to the east based on a narrow band of sediments interbedded in the volcanics. The orientation is consistent in a series of layered, plagioclase and augite porphyritic volcanic flows to the east of the sediments that also strike north-northwest and dip to the east. The sediment package consists of graphitic argillite and minor limestone that is intensely faulted and locally silicified and brecciated around the Two Ounce Notch (figure 7).

A ultramafic body outcrops in the southeastern part of the Nie 2 claim due east of Chevron's diamond drill hole 87-35. It appears to have been faulted into place where the West Wall Fault splits into a series of narrow anastomosing faults. The age of the ultramafic body is of probable Permian age.

Mapping and reinterpretation of the West Wall Fault, including the Two Ounce Notch zone, indentified the source of the strong VLF conductor as a graphitic argillite unit that has acted as a greasy slip zone for movement on the West Wall Fault. The area is structurally complex but lacks brittle openings, due to the soft nature of the graphite, to allow the flow of mineralizing fluids.

3.3 Shoulder Vein Geology

This area consists of several subparallel quartz veins up to seven meters apart (see inset, figure 5), trending northeast and dipping to the southeast, hosted within a chloritized feldspar porphyritic mafic volcanic. Follow-up work to the 1990 results traced the original two veins along strike for 40 m and located several other narrow veins in the area. The veins are massive white quartz up to 30cm wide with iron carbonate alteration and local zones of massive sulphides, mainly pyrite and galena. Alteration of the host rock is limited to within a few centimeters of the veins.

3.1.1 Results

The quartz veins contain significant to ore-grade gold with significant silver and lead credits. The best results are tabulated in Table 3.

4.0 GEOCHEMICAL PROGRAM

Soil samples were taken from the B horizon at depths of 10 to 40 cm. Stream silt samples were collected from silt and fine sand deposits in the active flow of creeks. All

soil and stream silt samples were collected in kraft high-wet-strength paper bags and hung to dry prior to being shipped to Acme Analytical Labs for analysis. Each sample was analyzed for 30 elements, including gold, done by the ICP method. Samples anomalous in gold were reanalyzed by fire assay and samples anomalous in silver, copper, lead and zinc were reanalyzed by normal assay procedures.

Gold, silver, copper and arsenic soil data was plotted on grid maps and contoured at intervals of a) the mean, b) the mean plus one standard deviation and c) the mean plus two standard deviations.

Sample	Au (opt)	Ag (opt)	Pb (%)
3554	-	1.55	-
3556	-	1.32	-
3557	.096	-	2.43
3559	1.101	1.32	2.59
3560	3.642	2.26	4.17
3561	-	5.87	8.81
3563	.033	-	-
3565	.029	-	-
3567	-	1.05	-
3570	.057	4.09	1.91
3572	.037	-	-
3573	.073	-	-

Table 3: Shoulder Vein Showing Assay Results

4.1 Grid Soil Sample Results

Contoured soil results for gold and arsenic identified two coincident anomalies (figures 6f and j). The largest of the two anomalies occurs on line 5N between 1+00W and 2+40E and is underlain by moderately carbonate altered monzonite in contact with ultramafic rock. Rock samples from the monzonite returned low gold but very high arsenic values. The second anomaly is found 50 m north of the Ultramafic Vein showing on line 0 between 1+00W and 0+40E. It lies near the crest of the ridge on the west slope and is

underlain by moraine and talus.

Copper soil results form a broad anomaly that covers the southwest quarter of the grid. A small high-grade core of the anomaly is coincident with the Au-As anomaly on line 0.

There are no anomalous silver results from soil data on the Ultramafic Grid.

4.2 Reconnaissance Stream Silt Sample Results

The reconnaissance stream silt data was plotted on a 1:10,000 scale topographic map (figure 5). None of the seven creeks sampled during the reconnaissance work returned significant results.

5.0 GEOPHYSICAL PROGRAM

A total of 6.9 line kms of magnetometer and VLF surveys were carried out on the Ultramafic Grid using Scintrex IGS-2 units for field and base magnetometer stations. The data for both surveys was plotted as line profile and contour maps at 1:2000 scale (figures 6k, m, n and p).

The VLF contours form a strong linear arcuate anomaly extending from line 2+00S, 0+10W, over the Ultramafic Vein showing on line 1+00S at 0+25W, up to line 3+00N at 0+10W. The anomaly bifurcates at 1+00N, 1+60W to form a second, weaker anomaly trending northwest. A second VLF anomaly occurs between lines 5+00N and 7+00N at 1+50W and corresponds with an outcrop of unaltered ultramafic.

The magnetics survey produced a strong magnetic response from the ultramafic body and clearly defined the contact of the unit with the adjacent intrusive rocks. Other mag highs on line 0, 0+50W and line 2, 2+25W are coincident with VLF conductors. There is no outcrop exposure in those areas.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The main purpose of the 1991 program was to determine the extent of mineralization at the Ultramafic Vein and Shoulder Vein showings and reinterpret the geology and mineral potential of the Two Ounce Notch zone and northern West Wall Fault. No further work is recommended on the Ultramafic and Shoulder veins because of the low grade or narrow widths of the vein systems. Reinterpretation and mapping of the Two Ounce Notch and the northern extension of the West Wall Fault did not locate any new zones of mineralization.

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APPENDIX I
STATEMENT OF EXPENDITURES

STATEMENT OF EXPENDITURES

SALARIES AND WAGES		40,040
GEOCHEMISTRY AND ASSAYING		7,183
CONSULTING AND TECHNICAL		1,749
MISCELLANEOUS GEOLOGICAL		
Travel, Lodging and Meals	5,693	
Communications	328	
Maps, Publications, Photos	187	
		6,208
CLAIM COSTS		6,060
SURFACE WORK		
Field Materials	631	
Trenching	4,817	
Air Support	42,191	
		47,639
MACHINERY AND EQUIPMENT		383
ADMINISTRATION FEE (12%)		<u>13,112</u>
NET PROJECT EXPENDITURES		122,374

APPENDIX II

ROCK SAMPLE DESCRIPTIONS

ROCK SAMPLE DESCRIPTIONS

Sample	Type	Description
3501	grab	Sil gndrt, gossan, tr py.
3502	grab	Alt gndrt, gossan vn material, NVS.
3503	float	Qtz vn breccia, gossan, NVS.
3504	float	Qtz ser vn wi minor alt, py wi possible ga.
3505	grab	Alt gndrt, gossan, mal stain, tr py.
3506	grab	Qtz cbt vn material, 1% py.
3507	grab	Alt gndrt, qtz, cbt veinlets, gossan, NVS.
3508	grab	Ultramafic(?), mal and lim staining.
3509	grab	Fe cbt alt, NVS.
3512	grab	Qtz vn 4-6cm in syenite dike, py, mal stain, tr ga(?).
3513	grab	Qtz hem vn 2-4cm in ultramafic host, chl, talc, fuchsite, NVS.
3514	grab	Moderately alt ultramafic, Fe cbt & vuggy calcite vns, NVS, minor hem.
3515	grab	Talc and chl shear breccia 0.2m wide, NVS.
3516	grab	Msv ultramafic, no mineralization.
3523	grab	Sil vlc, rusty brown wx, 2-3% py.
3524	grab	Fe-cbt alt ultramafic(?), coarse cbt vn wi qtz strngr.
3525	grab	Sil, Fe cbt alt gndrt plug(?), contact wi ultramafic, 1-3% of fine grained diss and euh py.
3526	grab	Cbt vn (10cm) wi fuchsite, follows joint set, NVS
3527	grab	Pink to orange gndrt-granite, msv, hem and Fe cbt, NVS.
3528	grab	Vn material, sid, sil, tr py, slight mal stain, vvfg ga(?)
3529	grab	Sid qtz vn in gndrt, vfg py, tr ga (?)
3530	grab	Qtz ser alt gndrt, tr diss py & ga(?)
3541	grab	Gossan zone, py, minor kspar.
3542	grab	Mvlc wi diss py, rep sample.

3543	grab	Highly wx gossan, orange to brown, qtz vn, euh py.
3544	grab	Gossan adjacent to small fract, NVS
3545	grab	Fspar porph mvlc wi minor qtz.cbt vns, py, mal.
3546	float	Qtz vn, ribboned, in felsic host, minor py
3551	float	Spire grid, qtz vn in lim strongly fractd boulder, tr-1% cpy.
3552	grab	Fspar rich intrusive, monzonite, cbt strngr, tr-1% py in strngr.
3553	grab	Qtz vn in kspar rich intrusive, 30cm wide wi 20cm qtz stringer zone, tr-4% in strngr
3554	grab	15cm shear wi white qtz, tr -1% py and ga.
3555	grab	40cm white shear zone wi cbt vn, tr py.
3556	grab	30cm sheared qtz, 2% py and ga.
3557	grab	Yellow clay gouge, 50cm, to 5% ga in qtz bands
3558	grab	Strongly lim 50cm gouge wi goethite strngr, chl, ser schist.
3559	grab	5cm shear wi qtz vn, tr py, 5% ga.
3560	grab	25cm shear wi banded qtz vns, to 4% ga, 2% py.
3561	grab	10cm shear, lim, wi qtz vns to 5-8% ga, tr py.
3562	grab	5cm white qtz vns 5% black organics in vugs.
3563	grab	10cm white qtz vn tr py-cpy-ga.
3564	grab	15cm qtz vn wi tr-1% diss ga-cpy-py.
3565	grab	Big John vn, 10-30cm wide, 5% ga, tr cpy, 2% py
3566	grab	50cm sheared chl schist, tr cpy, good mal.
3567	grab	10cm white qtz vn, 5% ga, tr cpy, py.
3568	grab	High sulfide in small podiform zone, shear, 30% py, 50% chl.
3569	grab	Fe cbt vn alt zone 1.5m, in augite porph vlc.
3570	grab	30cm shear wi qtz vn 1-2% ga and tr py.
3571	grab	2m qtz-ser-chl-py shear in mvlc, py is diss wi up to 10-15% locally.
3572	grab	Shear zone 20cm wide, qtz vns wi up to 5% cubic py.
3573	grab	Qtz along 25cm shear, 15% fg semi msv py.
3574	grab	Sheared drt wi tr-2% diss py, strong gossan.

3575	grab	Fe cbt alt and brx wi diss py.
3576	grab	Alt gndrt, brx, ferricrete(?) abundant wx. magnesite and hem, NVS
3577	grab	Sheared gndrt, int Fe gossan, some clay gouge adjacent, tr py & mal
3578	grab	Sheared gndrt, rusty wx, 4cm qtz vn, tr. py and ga(?)
3579	grab	Rusty yellow/orange wx qtz vn in sheared gndrt, tr py & ga(?).
3580	grab	Sheared cbt gndrt, NVS.
3581	grab	Rusty qtz vn, 2-3% diss py.
3582	grab	Qtz vn, tr to 2% py.
3583	grab	Completely oxidized wx sulfide vn.
3584	grab	Foliated vlc, 3-5% mal, minor azurite
3585	grab	Sheared gndrt, gossanous, NVS.
3586	grab	Zone of sil drt, 1-2% py strngr, xcut by 10cm syenite dikes.
3587	grab	Qtz vn 50cm in mvlc, chl, 1-2% clotty py.
3588	grab	Bright orange gossan, totally alt to lim wi goethite strngr stockwork, very light weight and punky.
3589	grab	Lim shear zone, 20cm wide, in mvlc.
3590	grab	Rubbly orange crushed gndrt, near soil.
3591	grab	Resample 35481, Sept 90, Qtz vn 40cm, light to dark grey, 15% semi msv to msv clotty py and 10% msv cpy, cpy occurs in discrete bands approx 2cm wide.
3601	grab	Slight gossan, sheared gndrt, 1% black semi-metallic nonmagnetic xtals.
3602	grab	Argillite black, weakly bedded, rusty wx, 5-7% py, diss and as strngr, py very white.
3603	grab	Cooked mvlc, int cbt alt, tr py.
3604	grab	Qtz vn, rusty stain, tr py.
3605	grab	White qtz vn, rusty wx, NVS.
3606	grab	Sil felsic rock, pinkish brown, 2% diss py
3607	grab	Gossanous sil felsic as above.

3608	grab	Yellow fault gouge, NVS
3609	grab	Mvlc dark green aphanitic, rusty gossan, tr py
3610	grab	Sil sediment dark rusty brown 1% diss py.
3616	grab	Cbt alt contact between mvlc and argillite 2% py in clots.
3618	grab	Int cbt alt ultramafic, fuchsite, tr diss py.
3619	grab	Cbt alt mvlc, tr vfg py.
3620	grab	Cbt alt mvlc tr py from small shear.
3621	chip	5m sample of bleached sil mvlc, 1-2% py
3622	grab	Mvlc black aphanitic, foliated qtz vn 10cm wide, tr py.
3623	grab	Potassic alt, 1% py along fract, in fresh drt.
3624	grab	Cbt vn in small shear in fresh drt, minor euh py.
3625	grab	Cbt alt drt shear wi trace mal.
3626	grab	Foliated Fe cbt alt mvlc tr py.
3627	grab	Mvlc, sil qtz vn in 10cm shear, tr py
3628	chip	1m in gossanous qtz vn and mvlc, tr to 2% py
3629	grab	Rusty drt up to 5% py, diss and as fine strngr.
3630	chip	0.5m across small fault zone, mvlc, 3-5% diss py, 1% unident other metallic mineral.
3641	grab	Cbt alt mvlc wi tr py.
3642	grab	Qtz vn 1m wide, tr py & mal.
3643	grab	Qtz vn in mafic vlc gossan, NVS.
3644	grab	Msv py in sil mvlc, gossan, py to 4%.
3645	grab	Sil argillite, qtz strngr, py to 4%.
3646	grab	Thin section.
3647	grab	Mvlc, tr py.
3648	chip	5m interval of sil mvlc, py 1-2%.
3649	grab	Schistose mvlc gouge zone, NVS.
3650	grab	Qtz vn in mvlc, py to 10%.
3661	chip	Narrow qtz vns in int sheared vlc tw 30-35cm. chl, int lim pervasive, up to 50% py, possible tr cpy.

3662	chip	1M wide. Int sheared & fractd mvlc, no py seen - may be smeared out, Int lim on fract, rusty to orange wx, chl, py only in narrow qtz, vns.
3663	chip	25cm tw. Smoky grey to milky white qtz orange discoloration along fract, chl, euh py diss to 10%
3664	grab	Gouge, from trench 2
3665	chip	1m tw Qtz vn, 2-3% py minor Fe stain on fract.
3666	chip	0.5m tw Qtz vn, orange to rusty qtz tr py, tr cpy, tr po.
3667	grab	High grade grab, sheared, fg, chl mvlc, int fractd, calcite vn and fract fill, azurite 2-3%, mal 5%, no primary sulphides noted.
3668	grab	Rubbly, unknown protolith, jar, NVS.
3669	grab	Wacke pelite, aphanitic, py to 1%.
3670	float	Argillite hosting qtz vn, cbt vn, NVS.
3671	grab	Shear in gndrt, jar, lim, py.
3672	grab	Shear brx in gndrt, sid, NVS.
3673	grab	Sil qtz cbt vn 30cm in mvlc, py and specular hem.
3674	grab	Carbonaceous lmst shear gouge 20cm wide, NVS
3675	grab	Sil zone in mvlc, cbt alt, tr py, lim, goethite.
3676	float	Sil vn in mvlc, 20cm clot of msv py.
3677	grab	20 -30 bed in chl vlc, py gossan, some wad, py diss occsnl msv, jar & lim.
3678	grab	Pyritic gossan in layered vlc, lim, goethite, diss py.
3679	grab	Rusty brown wx sil vlc, cbt alt, diss vfg py
3680	grab	Sil zone in drt, diss py.
3681	grab	Lim gossan in sil drt, diss py.
3682	grab	Shear infill, lim, NVS.
3686	grab	Qtz vn 4-6cm wide in sheared (mafic) drt, 5% msv and euh py.
3691	chip	1m tw int sheared mvlc, alt to chl & cbt, friable, lim, py to 50%, Py, cpy, po in mvlc.

3692	chip	20cm. Chl mvlc, relatively unaltered, lim, locally msv py to 50%.
3693	chip	30cm through clay-ser between sheared mvlc and qtz vns, int calcite vnl, gritty py.
3694	chip	1m tw of qtz vn material, minor chl and alt mvlc, lim stain on fract, msv and diss py up to 20%
3695	chip	Green msv volc, unaltered or sheared. NVS
3696	chip	1m int sheared and cbt alt, friable and rubbly mvlc, py strngr and semi msv.
3697	chip	2m of extremely fractd qtz material, smoky white to orange, white py
3698	chip	0.5m chl unaltered msv mvlc, minor lim, tr py
3699	grab	Highly fractd qtz vn, 1-2% diss py, mal on fract surface
3700	grab	Int sheared and chl-ser-cbt alt mvlc, minor Fe stain, tr diss py, mal stain
3701	grab	Qtz vn, milky, fe stain, NVS
3702	grab	Same as 3703.
3703	chip	1.0m tw of qtz vn, int fe stain, sulfides wx out, mal on fract, 2-3% py on margins
3704	chip	1m tw, unaltered mvlc in vn zone, msv, chl, tr diss py.
3705	chip	30cm tw, qtz vn, minor mvlc, mal on fract 2.5% py, diss and msv.
3706	chip	Int sheared mvlc in clay gouge, int chl, NVS
3707	ddh core	Argillic to wacke, variable amounts of graphite, tr py.
3708	grab	Qtz vn in int sheared mvlc, NVS.
3811	chip	Int sheared lim, jar in fract, tr py, diss and as strngr.
3812	chip	30cm channel in qtz vein, lim, mal, azurite, jar, msv py to 10%.
3813	talus	Py, mal, azurite in bedrock.
3814	grab	Msv sulfide pod in sandstone, 10x20cm, 20% white py.
3815	grab	20cm qtz vn in shear zone, chl clay gouge in H-wall, py pods to 3cm, mal, azurite, 1% sulfides overall.

3816	float	Banded qtz-plag intrusive wi azurite,po, tetrahedrite, mal, lim coating on surface.
3817	grab	30cm tw qtz cbt vn between brx qtz, NVS.
3818	grab	Higrade of mal in pink intrusive, 1% tetrahedrite, tr mal, tr diss py.
3819	grab	Gossan in sed, lim, alt, 4% diss py.
3820	grab	White qtz vn wi strngr of black sulfide,py 5%
3826	grab	Int sil of mvlc, 1m brx wi 2m cbt flood adjacent both sides, lim, NVS.
3827	grab	Resample of south Trench 1, sheared qtz vn, cbt strngr, py to 50%, int jar.
3828	chip	Same location as 3827, qtz vn, py to 10%, tr cpy.
3841	grab	Rep sample of fissile Fe cbt alt sediments and mvlc in shear zone, lim, jar, NVS.
3842	grab	Qtz vn in monzodiorite, weak cbt alt, NVS.
3843	grab	0.5m qtz cbt vn in monzodiorite, NVS.
3844	chip	Qtz vn 2cm wide in net veined mvlc, lim, jar, py to 30%.
3845	grab	Siliceous qtz ser schist, fuchsite, 10% clotty py.
3846	grab	30cm along 3cm wide cbt vn in pyroclastic mvlc, lim and jar staining pervasive, 1% diss py.
3986	grab	2-4cm qtz vn in mvlc, 20-30% euh py.
3987	grab	Chl alt shear in mvlc, NVS
3988	float	Brx shear zone in mvlc, NVS.
3989	float	Ribboned sid/cbt vn in gouge/brx, diss py.
3990	grab	Mvlc wi euh cbt vn 2-4cm, diss euh py.
3991	float	Laumontite/Zeolite vn brx, NVS.
3992	grab	Hem sid vn brx, 2m wide, sheared, NVS.
3993	grab	Sid vn 2-3m wide in gndrt, NVS.
3994	grab	Cbt alt gndrt, alt 10cm wide, diss and msv py, lim stain, rusty gossan.
3995	grab	Rusty wx hem gndrt, NVS.

3996	grab	Sil vuggy qtz/cbt vn, diss euh py 3-5%.
3997	grab	Vuggy qtz/cbt vn 2-4cm, 8-10% py.
3998	grab	Qtz cbt vn 2-4cm euh rhombs, py, ga, cpy(?), lim.
3999	grab	Clay wx from sulfide vn, ser, lim, goethite, NVS.
4000	grab	Py gossan vns 4-6cm over 3m tw, monzodiorite host, ser, lim, py, ga, cpy(?).
35008	grab	Drt, yellow wx, tr-1% po, hem, scordodite(?)

Abbreviations Used

alt	Altered	mvlc	Mafic Volcanic
assoc	Associated	NVS	No visible sulfides
brx	Brecciated	o/c	Outcrop
cbt	Carbonate	po	Pyrrhotite
cg	Coarse grained	porph	Porphyry
chl	Chlorite	py	Pyrite
cpy	Chalcopyrite	qtz	Quartz
ddh	Diamond Drill Hole	rep	Representative
diss	Disseminated	sed	Sediment
drt	Diorite	ser	Sericite
euh	Euhedral	sid	Siderite
fg	Fine grained	sil	silicified
fract	Fracture	silc	silicious
fspar	Feldspar	strngr	Stringer
fw	Foot Wall	tw	Total width
ga	Galena	vfg	Very fine grained
gndrt	Granodiorite	vlc	Volcanic
hb	Hornblend	vn	Vein
hem	Hematite	vnlt	Veinlet
int	Intense	vns	veins
jar	Jarosite	wi	With
lim	Limonite	wx	Weathered
mal	Malachite	xcut	Cross cut
mod	Moderate	xtals	Crystals
msv	Massive		

APPENDIX III
ANALYTICAL METHOD

ACME ANALYTICAL LABORATORIES LTD.

ICP - .500 gram sample is digested with 3 ml 3-1-2 HCl-HNO₃-H₂O at 95 degrees Celcius for one hour and is diluted to 10 ml with water. This leach is partial for Mn, Fe, Sr, Ca, P, La, Cr, Mg, Ba, Ti, B, W and limited for Na, K and Al. Au detection limit by ICP is 3 ppm. Au** analysis by FA/ICP from 10 gram sample. Au* by wet acid leach(10gm)

Au** and Ag** by fire assay from 1 assay ton sample type is rock pulp

For %Cu, %Pb and %Zn a one gram sample was digested in 50ml of aqua regia for one hour to 100mL and run by ICP.

APPENDIX IV
GEOCHEMICAL RESULTS



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppb
MN-HK-2 5+00N 1+60E	1	36	2	42	.1	777	67	1334	5.35	15	5	ND	1	21	.4	3	3	66	.67	.047	2	365	6.56	80	.02	23	2.22	.01	.04	1	2	4
MN-HK-2 5+00N 1+80E	1	35	3	59	.1	701	75	1308	5.60	21	5	ND	1	18	.3	4	5	68	.39	.042	2	388	5.96	74	.03	21	2.13	.01	.03	1	2	3
MN-HK-2 5+00N 2+00E	1	44	4	60	.1	633	49	884	5.49	16	5	ND	1	21	.2	2	2	62	.56	.069	3	352	3.88	262	.01	15	2.47	.01	.05	1	2	44
MN-HK-2 5+00N 2+20E	1	49	5	52	.1	188	20	464	4.11	7	5	ND	1	30	.2	2	2	65	.48	.072	5	209	2.64	335	.02	5	1.77	.02	.05	1	2	2
MN-HK-2 5+00N 2+60E	1	69	4	64	.1	370	31	509	5.38	16	5	ND	1	34	.3	2	2	81	.48	.070	4	312	4.88	223	.02	9	2.35	.01	.06	1	2	2
MN-HK-2 5+00N 2+80E	1	66	6	78	.2	95	18	520	4.08	9	5	ND	1	65	.2	2	2	78	.88	.126	5	127	2.14	675	.03	2	3.08	.02	.06	1	2	2
MN-HK-2 5+00N 3+00E	1	50	3	63	.1	94	23	938	4.45	5	5	ND	1	56	.2	2	2	83	.57	.098	5	131	2.27	183	.06	3	2.14	.01	.06	1	2	2
MN-HK-2 5+00N 3+20E	1	53	4	55	.1	70	17	606	4.27	7	5	ND	1	57	.2	2	2	75	.66	.107	6	97	1.77	315	.02	3	2.25	.01	.08	1	2	10
MN-HK-2 5+00N 3+40E	1	56	5	51	.2	57	19	1104	4.51	6	5	ND	1	43	.2	2	2	71	.63	.133	5	82	1.33	217	.03	3	1.72	.01	.10	1	2	171
MN-HK-2 5+00N 3+60E	1	67	7	72	.1	68	22	1253	5.08	5	5	ND	1	86	.2	2	3	94	.77	.127	6	100	2.28	217	.06	3	2.75	.02	.07	1	2	4
MN-HK-2 5+00N 3+80E	1	69	7	57	.1	77	16	502	3.70	6	5	ND	1	62	.2	2	2	71	.52	.089	3	120	1.80	159	.05	2	2.52	.02	.05	1	2	4
MN-HK-2 4+00N 0+20E	1	59	3	59	.1	928	90	1535	5.75	70	5	ND	1	89	.6	3	6	64	2.19	.048	6	305	5.87	89	.01	18	3.01	.01	.06	1	2	7
MN-HK-2 4+00N 0+40E	1	31	5	51	.1	814	88	1248	5.20	27	5	ND	1	65	.4	2	3	52	1.78	.025	2	293	9.24	46	.01	18	1.60	.01	.02	1	2	3
MN-HK-2 4+00N 0+60E	1	44	2	51	.1	878	93	1730	5.39	15	5	ND	1	23	.4	3	7	58	.67	.037	2	335	8.83	86	.02	29	2.00	.01	.03	1	2	6
MN-HK-2 4+00N 0+80E	1	71	2	68	.1	723	57	780	5.59	17	5	ND	1	23	.4	2	2	64	.63	.057	2	380	4.90	73	.03	19	2.75	.01	.06	1	2	5
MN-HK-2 4+00N 1+00E	1	130	5	75	.1	440	45	602	5.40	20	5	ND	1	22	.3	2	2	79	.54	.074	2	415	4.28	64	.04	7	2.55	.01	.05	1	2	6
MN-HK-2 4+00N 1+20E	1	117	2	48	.1	417	41	497	5.64	17	5	ND	1	27	.2	2	2	95	.71	.080	2	368	4.02	90	.01	8	2.94	.01	.08	1	2	4
MN-HK-2 4+00N 1+40E	1	177	2	46	.1	206	42	802	5.07	11	5	ND	1	27	.2	2	2	111	.69	.095	2	308	4.43	66	.04	4	3.27	.01	.07	1	2	6
MN-HK-2 4+00N 1+60E	1	152	5	38	.1	183	32	539	3.97	13	5	ND	1	24	.2	2	2	77	.77	.112	2	259	3.85	45	.12	3	2.74	.02	.06	1	2	5
MN-HK-2 4+00N 1+80E	1	129	2	49	.1	175	30	470	3.42	15	5	ND	1	21	.3	2	3	64	.73	.104	2	235	3.34	64	.08	2	2.34	.02	.05	1	2	5
MN-HK-2 4+00N 2+00E	1	112	2	37	.1	253	31	400	3.49	24	5	ND	1	11	.2	2	2	58	.51	.047	2	297	3.57	25	.07	4	2.13	.02	.02	1	2	3
MN-HK-2 4+00N 2+20E	1	45	4	61	.1	546	59	1126	5.78	6	5	ND	1	24	.5	2	6	73	1.26	.043	2	583	4.01	41	.03	13	2.68	.01	.02	1	2	4
MN-HK-2 4+00N 2+40E	1	62	3	49	.1	442	45	768	5.28	6	5	ND	1	27	.3	2	2	78	1.21	.057	2	380	2.63	87	.02	14	3.26	.01	.06	1	2	3
MN-HK-2 4+00N 2+60E	1	62	6	61	.1	671	56	997	5.89	5	5	ND	1	56	.5	2	2	63	1.56	.061	3	350	1.88	136	.02	10	2.10	.02	.11	1	2	1
MN-HK-2 4+00N 2+80E	1	74	6	71	.1	136	25	1052	5.31	6	5	ND	1	37	.2	2	2	98	.69	.089	8	157	2.59	293	.02	7	2.44	.02	.07	1	2	3
MN-HK-2 4+00N 3+00E	1	72	6	109	.2	54	26	1514	6.62	4	5	ND	1	281	.4	2	6	135	1.25	.144	5	58	3.61	352	.14	6	3.87	.01	.03	1	2	3
MN-HK-2 4+00N 3+20E	1	47	3	80	.2	61	23	1223	6.10	2	5	ND	1	131	.5	2	2	115	.87	.138	7	72	2.55	237	.10	3	3.32	.01	.09	1	2	3
MN-HK-2 4+00N 3+40E	1	48	7	56	.2	72	19	783	4.21	10	5	ND	1	67	.2	2	2	85	.47	.079	3	145	1.52	168	.06	2	2.12	.02	.05	1	2	4
MN-HK-2 4+00N 3+60E	1	49	5	42	.1	88	20	576	3.91	7	5	ND	1	53	.2	2	2	75	.41	.061	2	148	1.76	88	.06	3	2.08	.02	.05	1	2	3
MN-HK-2 4+00N 3+80E	1	35	3	42	.1	58	15	670	3.79	5	5	ND	1	52	.2	2	2	78	.33	.050	2	126	1.16	115	.06	2	1.86	.02	.04	1	2	4
MN-HK-2 4+00N 4+00E	1	38	4	38	.1	55	11	351	3.08	8	5	ND	1	42	.2	2	2	60	.27	.095	4	105	1.08	87	.02	2	1.95	.02	.05	1	2	5
MN-HK-2 4+00N 4+20E	1	31	9	44	.1	48	9	210	2.45	12	5	ND	1	31	.2	2	2	49	.19	.084	3	101	.88	71	.02	2	1.62	.01	.04	1	2	12
MN-HK-2 4+00N 4+40E	1	79	2	61	.1	117	27	922	4.05	4	5	ND	1	58	.2	2	2	73	.68	.088	3	134	2.56	158	.06	3	2.25	.02	.07	1	2	6
MN-HK-2 4+00N 4+60E	1	41	7	57	.3	52	16	971	4.23	9	5	ND	1	58	.5	2	2	80	.95	.114	11	67	1.45	470	.03	5	2.16	.01	.18	1	2	5
MN-HK-2 4+00N 4+80E	1	77	6	57	.1	87	24	770	4.09	3	5	ND	1	87	.2	2	2	83	.90	.109	4	135	1.79	180	.06	2	2.26	.02	.09	1	2	77
STANDARD C/AU-S	18	55	38	130	6.7	71	32	1041	3.95	40	18	6	37	51	17.1	16	21	54	.45	.090	36	56	.70	175	.08	32	1.92	.05	.14	12	2	48



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppb
MN-HK-2 8+00N 2+40E	1	58	7	79	.3	69	18	593	4.16	9	5	ND	1	62	.5	2	2	91	.35	.085	2	104	1.83	68	.04	2	2.88	.02	.04	1	2	2
MN-HK-2 8+00N 2+60E	1	50	11	142	.8	40	19	2404	3.31	10	5	ND	1	56	1.2	2	2	82	.29	.126	2	78	.93	172	.01	2	1.55	.02	.06	1	2	6
MN-HK-2 8+00N 2+80E	1	71	6	75	.3	65	19	627	3.71	5	5	ND	1	66	.5	2	2	89	.40	.092	2	92	2.00	80	.06	2	2.88	.02	.05	1	2	2
MN-HK-2 8+00N 3+00E	1	57	6	72	.5	56	16	560	3.74	8	5	ND	1	72	.9	2	2	91	.39	.090	2	83	1.73	111	.04	2	2.65	.02	.04	1	2	2
MN-HK-2 7+00N 2+00W	1	162	9	68	.3	192	29	491	3.77	12	5	ND	1	53	.7	2	2	81	.81	.098	2	257	3.69	65	.09	2	2.70	.02	.05	1	2	62
MN-HK-2 7+00N 1+80W	1	179	6	49	.4	216	36	515	3.90	10	5	ND	1	54	.7	2	2	79	.82	.113	2	281	3.86	56	.11	2	2.54	.02	.06	1	2	6
MN-HK-2 7+00N 1+40W	1	63	2	63	.1	582	69	1008	4.63	4	5	ND	1	17	1.4	2	2	61	.68	.048	2	309	12.90	50	.08	9	2.02	.01	.03	1	2	3
MN-HK-2 7+00N 1+20W	1	65	2	73	.1	525	58	873	4.61	9	5	ND	1	23	1.1	2	2	64	.55	.050	2	275	11.65	60	.06	9	1.67	.01	.03	1	2	3
MN-HK-2 7+00N 1+00W	1	83	7	67	.2	332	33	559	3.96	12	5	ND	1	27	.2	2	2	62	.48	.063	3	274	4.82	81	.07	6	1.75	.02	.04	1	2	14
MN-HK-2 7+00N 0+80W	1	63	4	57	.1	244	40	641	4.07	13	5	ND	1	21	.4	2	2	68	.44	.083	2	295	3.56	68	.06	4	1.64	.02	.04	1	2	2
MN-HK-2 7+00N 0+60W	1	91	5	60	.1	425	55	948	4.20	24	5	ND	1	25	.7	2	2	83	.51	.058	2	288	10.01	49	.09	7	2.12	.02	.04	1	2	6
MN-HK-2 7+00N 0+40W	1	106	11	75	.2	462	61	941	4.54	17	5	ND	1	30	1.4	3	2	79	.85	.045	2	321	10.79	75	.07	9	1.91	.02	.03	1	2	7
MN-HK-2 7+00N 0+20W	1	192	4	42	.3	179	37	356	3.39	7	5	ND	1	35	.3	2	2	79	1.09	.026	2	163	4.00	37	.16	3	1.70	.06	.04	1	3	2
MN-HK-2 7+00N 0+20E	1	89	6	76	.1	402	92	1058	5.56	12	5	ND	1	24	1.2	2	2	98	.44	.029	2	367	9.91	69	.12	14	1.88	.03	.03	1	2	5
MN-HK-2 7+00N 0+40E	1	121	8	74	.1	332	68	930	5.40	32	5	ND	1	43	1.1	2	2	101	.49	.026	2	414	10.20	63	.11	10	1.63	.04	.03	1	2	5
MN-HK-2 7+00N 0+60E	1	72	12	111	.2	189	22	462	4.95	20	5	ND	1	32	.8	2	2	92	.52	.069	5	240	3.17	203	.03	4	1.68	.02	.06	1	2	5
MN-HK-2 7+00N 0+80E	1	58	7	97	.2	212	26	531	4.58	32	5	ND	1	51	.6	2	2	82	.53	.070	4	272	3.53	214	.03	3	1.76	.02	.06	1	2	17
MN-HK-2 7+00N 1+00E	1	51	12	86	.1	198	30	722	4.67	14	5	ND	1	28	.6	2	2	75	.55	.060	6	249	3.43	383	.04	4	1.56	.02	.04	1	2	4
MN-HK-2 7+00N 1+20E	1	47	9	163	.3	171	21	476	4.50	21	5	ND	1	23	.6	2	2	76	.39	.069	5	215	3.21	211	.03	4	1.74	.02	.04	1	2	35
MN-HK-2 7+00N 1+40E	1	45	12	262	.2	129	21	731	4.99	35	5	ND	1	26	1.2	2	2	93	.43	.106	9	160	2.43	299	.02	4	1.83	.02	.05	1	2	33
MN-HK-2 7+00N 1+60E	1	46	10	201	.2	146	27	1038	4.65	24	5	ND	2	26	1.3	2	2	79	.49	.095	9	137	2.26	364	.02	5	1.33	.01	.08	1	2	25
MN-HK-2 7+00N 1+80E	1	51	10	102	.1	194	29	723	4.42	15	5	ND	1	24	.4	2	2	78	.45	.077	6	227	3.31	187	.04	4	1.60	.02	.06	1	2	15
MN-HK-2 7+00N 2+00E	1	40	5	109	.2	151	25	878	4.25	13	5	ND	1	40	.2	2	2	76	.88	.102	7	138	2.43	425	.02	6	1.42	.01	.08	1	2	12
MN-HK-2 7+00N 2+10E	1	49	14	85	.3	146	22	800	4.36	21	5	ND	1	39	.2	2	2	76	.55	.085	8	166	2.41	350	.03	4	1.38	.01	.07	1	2	28
MN-HK-2 7+00N 2+40E	1	53	17	84	.2	69	19	796	4.78	16	5	ND	1	49	.5	2	2	95	.47	.116	4	96	1.72	308	.02	3	1.95	.01	.07	1	2	13
MN-HK-2 7+00N 2+60E	1	35	11	58	.4	52	13	532	3.54	9	5	ND	1	56	.3	2	2	88	.33	.071	3	85	1.30	75	.09	2	1.69	.02	.07	1	2	1
MN-HK-2 7+00N 2+80E	1	54	9	58	.2	69	16	480	4.03	8	5	ND	1	52	.2	2	2	92	.31	.062	2	100	1.76	67	.09	2	2.38	.02	.03	1	2	57
MN-HK-2 7+00N 3+00E	1	43	10	58	.1	68	16	497	4.04	6	5	ND	1	55	.2	2	2	93	.34	.101	3	97	1.76	106	.08	2	2.19	.02	.04	1	2	3
MN-HK-2 6+00N 0+20E	1	79	17	108	.1	180	39	1496	5.50	30	5	ND	1	52	.7	2	2	123	.87	.093	6	196	3.72	272	.05	6	2.45	.02	.11	1	2	9
MN-HK-2 6+00N 0+40E	1	59	16	122	.2	131	25	957	5.34	18	5	ND	1	35	.3	2	2	114	.55	.103	6	178	2.76	195	.02	2	2.52	.01	.04	1	2	7
MN-HK-2 6+00N 0+60E	1	35	14	87	.1	99	19	666	4.71	18	5	ND	1	32	.2	2	2	94	.58	.102	4	160	1.88	293	.01	4	2.04	.01	.08	1	2	4
MN-HK-2 6+00N 0+80E	1	46	12	76	.2	155	22	503	3.82	20	5	ND	1	33	.2	2	2	65	.80	.097	2	213	2.71	368	.04	3	1.69	.02	.03	1	2	6
MN-HK-2 6+00N 1+00E	1	52	10	70	.1	184	27	564	4.11	15	5	ND	1	28	.2	2	2	70	.51	.054	3	225	3.07	220	.04	5	1.63	.02	.06	1	2	12
MN-HK-2 6+00N 1+20E	1	68	11	59	.1	285	35	626	4.06	10	5	ND	1	27	.2	2	2	61	.66	.062	2	272	4.42	199	.06	6	1.73	.02	.04	1	2	14
MN-HK-2 6+00N 1+40E	1	47	8	79	.1	218	27	765	4.59	13	5	ND	1	24	.2	2	2	77	.56	.090	8	212	3.14	341	.03	5	1.58	.02	.07	1	2	6
MN-HK-2 6+00N 1+60E	1	26	9	105	.1	93	19	775	4.54	15	5	ND	1	17	.2	2	2	74	.22	.081	6	114	2.27	271	.01	2	2.31	.01	.06	1	2	56
STANDARD C/AU-S	19	58	43	133	7.5	70	32	1053	4.00	42	24	6	39	52	17.1	16	22	56	.52	.096	37	56	1.00	178	.08	34	1.95	.07	.15	11	2	47



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Tl	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	% ppm	ppm	ppm	% ppm	ppm	% ppm	%	%	%	ppm	ppm	ppb	ppm
MN-HK-2 6+00N 1+80E	1	32	4	74	.2	132	25	675	3.97	16	5	ND	1	17	.2	2	2	62	.19	.076	3	207	2.12	142	.02	3	1.80	.01	.03	1	2	2
MN-HK-2 6+00N 2+00E	1	29	2	62	.2	154	25	768	3.90	9	5	ND	1	17	.2	2	2	57	.36	.056	6	160	2.43	239	.02	4	1.28	.01	.07	1	2	5
MN-HK-2 6+00N 2+20E	1	34	3	57	.2	200	18	324	3.76	20	5	ND	1	31	.2	2	2	59	.38	.046	3	210	2.92	177	.03	5	1.44	.01	.04	1	2	3
MN-HK-2 6+00N 2+40E	1	49	4	58	.2	334	35	595	4.61	20	5	ND	1	32	.3	2	2	62	.43	.054	2	267	4.60	165	.02	8	1.87	.01	.04	1	2	8
MN-HK-2 6+00N 2+60E	1	61	2	55	.2	201	22	446	3.87	18	5	ND	1	37	.2	2	2	63	.48	.060	4	197	3.04	148	.03	5	1.95	.02	.03	1	2	1
MN-HK-2 6+00N 2+80E	1	50	6	74	.2	89	17	695	3.98	14	5	ND	1	53	.2	2	2	75	.53	.090	3	118	1.72	191	.03	2	2.36	.02	.04	1	2	18
MN-HK-2 6+00N 3+00E	2	71	3	65	.3	80	22	1361	4.36	10	5	ND	1	56	.2	2	2	89	.49	.103	2	100	1.69	167	.05	2	2.33	.02	.04	1	2	8
MN-HK-2 6+00N 3+20E	1	76	2	68	.3	90	20	736	3.87	9	5	ND	1	63	.2	2	2	76	.55	.098	2	112	2.16	91	.06	2	2.41	.02	.05	1	2	5
MN-HK-2 6+00N 3+40E	1	49	3	62	.2	60	16	919	3.69	10	5	ND	1	46	.2	2	2	62	.49	.073	9	63	1.87	183	.03	3	1.88	.01	.05	1	2	1
MN-HK-2 6+00N 3+80E	1	30	2	73	.3	43	15	1127	4.13	9	5	ND	1	44	.2	2	2	66	.56	.069	13	48	1.85	337	.01	3	2.38	.01	.08	1	2	1
MN-HK-2 6+00N 4+00E	1	42	2	79	.2	50	17	949	4.62	11	5	ND	1	53	.4	2	2	84	1.45	.101	10	52	2.11	157	.03	3	2.49	.01	.05	1	2	1
MN-HK-2 BL 9+00N	1	39	3	49	.2	111	20	486	4.08	15	5	ND	1	19	.2	2	2	66	.30	.041	2	184	1.67	54	.07	2	1.58	.02	.03	1	2	3
MN-HK-2 BL 8+75N	1	56	2	60	.2	264	50	765	4.12	16	5	ND	1	22	.2	2	2	66	.56	.032	2	226	4.63	51	.08	5	1.83	.03	.03	1	2	3
MN-HK-2 BL 8+50N	1	48	4	76	.2	120	22	659	3.95	20	5	ND	1	22	.2	2	2	66	.31	.095	2	191	2.21	72	.04	2	1.68	.02	.03	1	2	3
MN-HK-2 BL 8+25N	1	67	2	77	.2	141	23	548	3.89	23	5	ND	1	24	.2	2	2	76	.36	.072	2	200	2.60	79	.04	3	1.96	.03	.03	1	2	8
MN-HK-2 BL 8+00N	1	175	3	47	.3	247	40	532	3.84	22	5	ND	1	19	.2	2	2	73	.56	.024	2	216	3.82	61	.10	6	1.58	.04	.02	1	2	16
MN-HK-2 BL 7+75N	1	166	2	55	.3	248	47	515	4.15	13	5	ND	1	16	.2	2	2	76	.58	.015	2	241	4.44	32	.12	9	1.65	.04	.03	1	2	2
MN-HK-2 BL 7+50N	1	153	2	37	.3	164	31	384	3.18	18	5	ND	1	29	.2	2	2	88	1.08	.015	2	176	3.66	31	.17	4	2.09	.07	.05	1	2	1
MN-HK-2 BL 7+25N	1	145	2	35	.3	135	28	314	3.08	14	5	ND	1	28	.2	2	3	68	.71	.025	2	128	3.01	34	.13	2	1.63	.05	.03	1	2	1
MN-HK-2 BL 7+00N	1	188	2	27	.3	85	20	368	2.55	16	5	ND	1	41	.2	2	3	92	.94	.011	2	143	2.47	65	.24	2	1.89	.13	.05	1	2	21
MN-HK-2 BL 6+75N	1	123	6	71	.3	204	28	566	3.91	28	5	ND	1	64	.2	2	3	81	.56	.038	2	201	3.19	92	.11	3	1.99	.05	.04	1	2	18
MN-HK-2 BL 6+50N	1	54	2	73	.3	198	27	589	4.50	27	5	ND	1	27	.2	2	2	70	.36	.067	2	240	2.99	128	.04	3	1.87	.02	.03	1	2	26
MN-HK-2 BL 6+25N	1	112	4	62	.3	275	58	770	5.00	17	5	ND	1	16	.4	3	2	90	.41	.024	2	268	9.42	58	.10	7	2.35	.02	.03	1	2	5
MN-HK-2 BL 6+00N	1	52	3	79	.3	289	61	857	5.58	28	5	ND	1	20	.6	3	3	90	.31	.034	3	305	8.99	90	.06	10	1.57	.01	.02	1	2	25
STANDARD C/AU-S	19	58	38	133	6.9	71	31	1054	4.02	43	20	7	38	52	17.2	16	22	56	.46	.087	39	56	.80	178	.08	32	1.95	.06	.14	12	2	49

GEOCHEMICAL ANALYSIS CERTIFICATE

USTR - Misty Rice
JB



Homestake Canada Limited PROJECT 3128 File # 91-2954 Page 1

1000 - 700 W. Pender St., Vancouver BC V6C 1G8



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppb
M-1-2 BL 4+00N	1	22	2	52	.2	1159	110	1792	5.76	50	5	ND	1	10	.2	2	2	15	.13	.008	3	587	17.92	50	.04	62	1.85	.01	.02	1	2	4
M-1-2 BL 3+75N	1	52	5	61	.7	392	55	1025	4.97	22	5	ND	1	20	.2	37	2	64	.37	.055	3	396	5.36	60	.06	11	2.08	.01	.04	1	2	16
M-1-2 BL 3+50N	1	51	2	47	.6	635	62	832	5.14	10	5	ND	1	48	.2	26	2	62	1.50	.044	4	400	9.65	56	.03	16	2.53	.01	.03	1	2	1
M-1-2 BL 3+25N	1	539	5	48	.2	154	53	896	5.94	12	5	ND	1	44	.2	2	2	114	1.23	.115	9	309	2.89	82	.01	6	2.61	.01	.08	1	2	11
M-1-2 BL 3+00N	1	109	3	35	.1	222	33	474	3.54	7	5	ND	1	15	.2	2	2	58	.61	.046	3	325	2.77	48	.10	4	1.69	.02	.07	1	2	10
M-1-2 BL 2+75N	1	134	2	35	.1	245	36	490	3.72	12	5	ND	1	25	.2	2	2	67	.74	.129	4	367	3.41	57	.11	2	2.17	.02	.06	1	2	1
M-1-2 BL 2+50N	1	145	5	34	.1	212	36	413	3.92	11	5	ND	1	20	.2	2	2	74	.50	.094	2	435	3.31	30	.13	2	2.22	.02	.04	1	2	4
M-1-2 BL 2+25N	1	487	9	53	.4	218	42	539	4.68	41	5	ND	1	20	.2	2	5	106	.87	.059	3	253	3.26	51	.24	2	2.70	.03	.08	1	4	11
M-1-2 BL 2+00N	1	114	2	33	.1	328	45	459	3.70	12	5	ND	1	7	.2	2	2	65	.33	.023	2	466	4.43	20	.10	4	2.22	.01	.02	1	2	5
M-1-2 BL 1+75N	1	60	4	29	.1	229	39	484	3.86	14	5	ND	1	8	.2	2	2	64	.41	.041	2	392	3.77	40	.14	4	2.26	.01	.03	1	2	1
M-1-2 BL 1+50N	1	287	4	51	.9	342	49	662	5.10	14	5	ND	1	28	.2	38	3	83	.62	.053	3	422	5.22	49	.17	5	3.01	.02	.03	1	3	15
M-1-2 BL 1+25N	1	101	2	32	.1	321	43	514	3.78	10	5	ND	1	7	.2	2	2	56	.64	.031	5	484	4.01	26	.11	4	2.09	.01	.02	1	2	8
M-1-2 BL 1+00N	1	184	3	45	.1	407	54	625	4.26	19	5	ND	1	10	.2	2	3	63	.48	.043	3	409	4.44	29	.16	4	2.48	.01	.03	1	2	3
M-1-2 BL 0+75N	1	62	3	47	.1	302	38	650	3.58	10	5	ND	1	12	.2	2	2	57	.74	.034	2	312	4.27	43	.15	4	2.62	.02	.06	1	2	3
M-1-2 BL 0+50N	1	73	2	52	.7	558	85	1058	5.22	15	5	ND	1	8	.2	31	2	72	.59	.037	3	513	7.35	22	.11	7	2.43	.01	.03	1	2	5
M-1-2 BL 0+25N	1	1306	4	58	.5	486	108	610	4.73	101	5	ND	1	6	.4	2	8	58	.58	.031	5	494	4.56	19	.13	4	2.33	.01	.02	1	2	146
M-1-2 BL 0+00N	1	750	2	72	.2	354	77	739	4.96	21	5	ND	1	11	.2	2	5	65	.64	.102	5	258	3.92	51	.21	2	2.63	.01	.09	1	3	35
STANDARD C/AU-S	19	56	41	131	6.9	69	33	1033	3.96	37	21	7	36	53	18.4	18	20	57	.48	.088	36	59	.87	175	.09	34	1.87	.06	.15	12	2	47

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
 - SAMPLE TYPE: P1 SOIL P2-3 STREAM SED P4-6 ROCK AU** ANALYSIS BY FA/ICP FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 29 1991 DATE REPORT MAILED: Aug 3/91 SIGNED BY: *Chung* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ASSAY IN PROGRESS



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
M-2-3 BJ-1	2	63	5	71	.1	65	23	670	3.88	13	5	ND	1	40	.2	2	2	66	.59	.076	8	87	1.54	162	.12	2	1.60	.02	.07	1	2	7
M-2-3 BJ-2	1	75	7	72	.1	73	24	642	4.33	13	5	ND	1	44	.3	2	2	76	.65	.094	9	104	1.64	159	.11	2	1.59	.02	.08	1	2	10
M-2-3 BJ-3	5	127	8	70	.2	87	24	679	3.73	29	5	ND	2	57	.2	3	3	73	1.25	.122	15	138	1.82	181	.09	2	1.48	.02	.12	1	2	14
M-2-3 BJ-4	2	64	6	61	.1	65	23	625	3.76	15	5	ND	1	41	.3	2	2	63	.65	.080	8	88	1.55	164	.10	2	1.42	.02	.08	1	2	5
M-2-3 BJ-5	2	65	6	57	.1	67	23	607	3.81	14	5	ND	1	44	.2	2	2	66	.67	.099	8	99	1.58	170	.09	2	1.43	.02	.08	1	2	6
M-2-3 BJ-6	1	74	2	62	.1	64	23	669	3.74	17	5	ND	1	45	.2	2	2	64	.72	.093	9	90	1.52	190	.11	2	1.53	.03	.08	1	2	6
M-2-3 BJ-7	2	66	2	58	.1	65	23	599	3.87	16	5	ND	3	46	.2	2	2	71	.70	.103	9	99	1.51	177	.10	2	1.45	.03	.08	1	2	4
M-2-3 BJ-8	2	66	6	57	.1	70	23	588	3.79	15	5	ND	1	46	.2	2	2	68	.74	.095	8	104	1.62	162	.09	2	1.42	.02	.08	1	2	14
M-3-3 BJ-1	3	121	34	124	.5	53	21	934	3.87	54	5	ND	5	76	1.2	6	2	77	.81	.095	12	94	1.37	135	.10	3	1.66	.06	.12	1	2	30
M-3-3 BJ-2	8	61	19	84	.3	12	11	451	3.10	44	5	ND	6	42	.8	3	2	68	1.15	.053	9	24	.42	50	.07	2	.78	.05	.06	1	3	10
M-3-3 BJ-3	5	87	21	77	.4	19	14	566	3.17	50	5	ND	5	58	.9	4	2	70	1.75	.065	9	35	.68	51	.09	2	1.12	.06	.08	1	3	22
M-3-3 BJ-4	5	93	25	78	.6	17	13	548	3.53	60	5	ND	5	53	.6	5	2	79	1.46	.070	9	35	.62	55	.09	2	1.04	.06	.08	1	2	12
M-3-3 BJ-5	4	86	17	68	.4	17	13	500	3.32	57	5	ND	5	52	.4	2	2	74	1.46	.062	9	31	.59	46	.08	2	1.01	.06	.08	1	2	10
M-3-3 BJ-6	1	115	12	67	.3	77	26	577	3.51	20	5	ND	2	51	.3	3	2	70	.77	.069	7	111	1.48	94	.11	2	1.73	.03	.07	1	2	11
M-3-3 BJ-7	4	75	18	65	.2	20	12	503	2.92	38	5	ND	5	51	.5	2	2	64	1.29	.059	9	35	.64	54	.08	2	1.02	.06	.08	1	2	10
M-3-3 BJ-8	1	112	15	66	.1	75	26	535	3.55	22	5	ND	1	52	.3	2	2	70	.75	.065	7	108	1.41	82	.11	2	1.64	.03	.07	1	2	6
M-3-3 BJ-9	5	67	16	61	.3	19	11	466	2.61	35	5	ND	4	51	.6	2	2	59	1.34	.056	7	33	.61	47	.08	2	1.01	.06	.07	1	2	6
M-3-3 BJ-10	4	70	24	67	.2	16	12	467	3.06	53	5	ND	4	48	.5	3	2	65	1.58	.056	9	30	.62	54	.07	2	.91	.05	.06	1	2	10
M-3-3 BJ-11	2	54	8	65	.4	18	10	528	2.43	50	5	ND	2	53	.4	5	2	41	3.54	.053	10	25	1.08	97	.06	2	.77	.04	.07	1	2	13
M-3-3 BJ-12	1	24	2	69	.1	12	9	506	2.21	48	5	ND	1	42	.3	4	2	25	4.03	.047	16	12	1.20	139	.03	2	.42	.01	.06	1	2	8
M-3-3 BJ-13	1	25	4	75	.1	13	8	506	2.27	50	5	ND	1	42	.3	3	2	25	4.00	.048	15	12	1.21	138	.03	2	.42	.01	.06	1	2	6
MN-1-3 BJ-1	1	56	5	96	.1	108	24	701	4.01	9	5	ND	1	65	.2	2	2	73	.80	.069	5	148	2.44	208	.07	6	1.62	.02	.07	1	2	5
MN-1-3 BJ-2	1	76	4	87	.2	103	25	441	3.29	12	5	ND	2	52	.2	2	2	68	.59	.052	7	136	1.86	125	.09	3	1.81	.02	.08	1	2	11
MN-1-3 BJ-3	1	78	2	50	.1	94	22	462	3.29	5	5	ND	1	93	.2	2	2	69	.85	.094	4	153	2.06	97	.11	2	1.66	.02	.06	1	4	4
MN-1-3 BJ-4	1	84	5	59	.2	123	24	556	3.58	5	5	ND	1	72	.2	2	2	71	.75	.088	5	163	2.47	101	.11	3	1.92	.02	.07	1	2	9
MN-1-3 BJ-5	1	85	7	64	.2	143	27	642	3.39	12	5	ND	1	63	.2	2	2	63	.80	.089	5	176	2.55	115	.10	5	1.64	.02	.07	1	2	7
MN-1-3 BJ-6S	2	98	2	51	.2	406	47	816	4.66	5	5	ND	1	49	.2	44	2	85	.81	.091	5	447	6.48	47	.14	7	2.58	.03	.05	1	2	22
MN-1-3 BJ-7	1	80	4	56	.1	150	27	530	3.57	7	5	ND	1	63	.2	2	2	70	.72	.076	5	201	2.74	122	.10	5	1.81	.02	.06	1	2	3
MN-1-3 BJ-8	1	54	4	51	.1	167	26	530	3.37	6	5	ND	1	64	.2	2	2	57	.92	.083	4	195	3.05	155	.09	4	1.40	.03	.06	1	2	5
MN-1-3 BJ-9	1	74	3	49	.2	126	25	476	3.44	5	5	ND	1	65	.2	2	2	67	.71	.076	5	202	2.42	108	.10	5	1.57	.02	.06	1	2	3
MN-1-3 BJ-10	1	38	6	73	.1	246	33	2044	4.92	8	5	ND	1	134	.2	2	2	56	.94	.081	8	148	3.45	550	.04	2	1.72	.02	.08	1	2	7
MN-1-3 BJ-11	1	82	2	53	.1	136	26	519	3.75	7	5	ND	1	68	.2	2	3	69	.76	.088	6	220	2.58	132	.10	4	1.64	.02	.07	1	2	5
MN-1-3 BJ-12	1	82	5	46	.1	132	25	459	3.61	7	5	ND	1	61	.2	2	2	68	.77	.085	5	224	2.58	100	.10	4	1.58	.02	.07	1	2	12
MN-1-3 BJ-13	2	89	4	43	.1	133	26	442	3.52	5	5	ND	1	64	.2	2	2	66	.82	.086	5	220	2.60	86	.11	3	1.62	.02	.07	1	2	4
MN-1-3 BJ-14	2	100	2	43	.2	145	28	451	4.01	5	5	ND	3	69	.2	2	2	76	.88	.113	6	269	2.69	105	.11	4	1.66	.02	.07	1	2	381
MN-1-3 BJ-15	2	94	2	45	.1	145	27	468	3.56	5	5	ND	1	66	.2	2	2	65	.86	.087	5	216	2.80	105	.11	3	1.71	.02	.07	1	2	12
STANDARD C/AU-S	19	57	37	133	7.0	70	34	1042	3.97	39	17	7	38	52	18.4	15	18	55	.48	.090	38	58	.88	177	.09	34	1.89	.06	.15	12	2	47



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	H	Tl	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppb	
MN-1-3 BJ-16	2	105	5	45	.1	150	25	464	3.78	4	5	ND	1	67	.4	2	2	69	.94	.092	3	198	3.27	102	.11	3	1.89	.02	.07	1	2	3
MN-1-3 BJ-17	2	117	2	50	.1	179	30	528	3.99	4	5	ND	1	74	.6	2	2	73	1.02	.100	4	213	3.60	118	.12	4	2.25	.03	.09	2	2	6
MN-1-3 BJ-18	1	100	5	49	.1	158	26	496	3.80	6	5	ND	1	70	.4	2	2	69	1.01	.099	3	190	3.37	113	.11	2	2.02	.03	.09	1	2	4
MN-1-3 BJ-19	2	99	8	53	.1	168	27	483	3.85	3	5	ND	1	67	.6	2	2	68	.97	.098	3	207	3.61	107	.11	3	1.95	.03	.08	1	2	19
MN-1-3 BJ-20	2	99	3	54	.1	165	27	498	3.94	3	5	ND	1	70	.8	2	2	70	1.01	.108	4	207	3.52	112	.11	3	2.00	.03	.07	1	2	4
MN-03-3 DJ-1	11	230	32	232	.5	51	24	976	5.70	227	5	ND	1	65	1.7	5	2	101	.86	.122	13	46	1.62	241	.05	3	2.40	.02	.18	2	2	15
MN-03-3 DJ-2	4	173	23	206	.3	153	32	715	5.22	189	5	ND	1	53	1.5	2	2	91	.97	.125	8	192	3.12	166	.14	2	2.89	.04	.19	1	2	9
MN-03-3 DJ-3	4	139	16	151	.2	117	24	625	4.57	120	5	ND	1	53	1.4	2	2	85	.92	.112	8	150	2.73	170	.13	2	2.51	.04	.18	1	2	5
MN-03-3 DJ-4	5	191	22	182	.2	95	24	980	4.50	179	5	ND	1	103	1.5	2	3	79	1.54	.133	18	118	2.24	248	.07	7	2.28	.03	.19	1	2	5
MN-03-3 DJ-5	6	233	19	145	.1	41	20	1172	4.66	171	5	ND	1	95	1.3	4	3	85	1.49	.112	13	54	1.57	264	.05	8	2.04	.02	.13	1	2	10
MN-03-3 DJ-6	5	164	28	167	.4	118	27	695	5.15	177	5	ND	1	58	1.6	3	2	95	1.00	.135	10	156	2.65	180	.11	2	2.43	.04	.15	1	2	7
MN-03-3 DJ-7	8	104	12	195	.2	40	17	1099	4.53	148	5	ND	1	94	1.3	4	2	79	1.54	.135	10	46	1.14	292	.03	3	1.51	.02	.11	1	2	12
MN-03-3 DJ-8	4	139	19	161	.2	109	24	709	4.65	123	5	ND	1	63	1.1	2	2	87	1.07	.123	9	146	2.57	204	.11	4	2.40	.04	.18	1	2	4
MN-03-3 DJ-9	6	150	16	189	.4	103	27	690	5.36	263	5	ND	1	58	1.1	4	2	92	1.17	.129	9	132	2.33	188	.09	2	2.05	.03	.14	1	2	11
MN-03-3 DJ-10	7	161	16	194	.4	100	27	803	5.60	337	5	ND	1	64	1.6	5	2	92	1.41	.124	7	120	2.16	176	.08	2	1.94	.03	.14	1	2	16
MN-04-3 DJ-11	14	164	9	112	.1	158	31	768	4.59	131	5	ND	3	176	.2	2	2	82	1.20	.122	17	201	2.92	192	.08	5	2.00	.02	.19	1	2	10
MN-04-3 DJ-12	12	180	4	113	.1	149	31	866	4.59	83	5	ND	3	203	.5	2	2	82	1.26	.124	18	195	2.97	211	.08	4	2.04	.02	.19	1	2	11
MN-04-3 DJ-13	9	206	8	117	.3	132	33	847	5.11	177	5	ND	1	136	.6	2	2	89	1.26	.117	11	151	2.72	236	.09	3	2.15	.03	.18	1	2	14
MN-04-3 DJ-14	13	168	6	92	.1	128	26	856	4.52	85	5	ND	3	116	.6	2	2	84	1.13	.126	17	169	2.77	231	.08	5	1.95	.03	.16	2	2	7
MN-04-3 DJ-15	9	106	5	98	.1	95	20	974	4.10	69	5	ND	1	134	.7	2	2	76	1.16	.116	11	134	2.05	233	.07	4	1.84	.03	.11	1	2	5
STANDARD C/AU-S	18	56	36	133	7.4	69	31	1046	3.99	39	19	7	38	52	17.0	16	21	54	.49	.097	36	59	.89	179	.08	33	1.94	.06	.14	11	2	48

AA
ACHE ANALYTICALAA
ACHE ANALYTICAL

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Tl	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppb
MN N2-1 3610	4	29	5	30	.4	5	3	143	2.15	22	5	ND	1	6	.5	2	2	19	.03	.013	3	11	.65	64	.01	4	.65	.03	.06	1	4	3
MN HK-1 3991	1	52	2	6	.1	5	2	76	1.01	2	5	ND	1	110	.2	2	2	26	1.26	.026	2	10	.28	12	.06	2	1.81	.02	.07	1	2	4
MN HK-1 3992	1	37	2	53	.2	21	15	957	3.97	9	5	ND	1	111	.6	2	2	119	8.53	.071	2	43	2.04	443	.02	6	1.16	.01	.12	2	2	1
MN HK-1 3993	1	4	5	64	.2	29	12	833	2.61	7	5	ND	2	145	.6	2	2	15	18.99	.003	2	2	11.57	498	.01	4	.19	.01	.04	1	2	1
MN HK-1 3994	2	24	570	443	.9	12	7	385	2.28	86	5	ND	1	27	8.0	2	2	18	1.41	.024	2	6	.51	69	.01	3	.50	.01	.14	1	2	63
MN HK-1 3995	1	18	6	50	.2	16	8	586	2.12	7	5	ND	2	43	.4	2	3	19	3.18	.046	5	20	.89	263	.01	5	1.46	.04	.28	1	2	4
MN HK-1 3996	6	180	279	875	1.7	16	11	4200	8.11	199	5	ND	1	55	6.8	40	2	38	8.21	.016	2	8	2.89	89	.01	2	.25	.01	.06	1	2	119
MN HK-1 3997	2	697	22	583	.9	41	20	2817	8.93	16	5	ND	1	61	4.3	2	2	72	6.49	.023	4	32	3.04	40	.01	2	.50	.03	.08	1	2	50
MN HK-1 3998	1	125	94	3536	1.7	22	9	4328	4.39	167	5	ND	2	73	37.6	2	2	46	8.70	.027	3	4	3.32	87	.01	3	.60	.03	.33	1	3	119
MN HK-1 3999	3	100	536	693	5.3	11	4	140	3.91	294	5	ND	1	85	5.8	9	2	30	.19	.031	5	13	.12	264	.01	5	.89	.02	.47	1	2	426
MN HK-1 4000	2	302	46	1801	3.4	37	19	1290	5.42	201	5	ND	1	56	29.7	63	3	59	3.17	.047	2	22	1.05	62	.01	8	.66	.03	.26	1	2	147
MN N2-1 35008	1	759	37	56	1.6	90	179	257	10.35	71	5	ND	1	34	.5	2	4	68	.86	.043	3	67	.59	53	.09	4	.82	.09	.12	1	2	10
STANDARD C/AU-R	19	57	42	130	7.0	69	29	1022	3.90	41	17	6	36	47	19.0	16	20	57	.47	.089	35	57	.88	175	.09	34	1.84	.06	.14	11	2	472



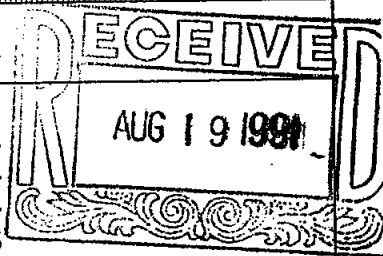
ASSAY CERTIFICATE

MSTR - Uisty file



Homestake Canada Limited PROJECT 3128 FILE # 91-2954R

SAMPLE#	Cu %	Pb %	AG** oz/t	Au** oz/t
MN HK-1 3502	-	-	-	.116
MN HK-1 3508	1.65	-	-	-
MN N4-1 3554	-	-	1.55	-
MN N4-1 3556	-	-	1.32	-
MN N4-1 3557	-	2.43	-	.096
MN N4-1 3559	-	2.59	1.32	1.101
MN N4-1 3560	-	4.17	2.26	3.642
MN N4-1 3561	-	8.81	5.87	-
MN N4-1 3563	-	-	-	.033
MN N4-1 3565	-	-	-	.029
MN N4-1 3567	-	-	1.05	-
MN N4-1 3570	-	1.91	4.09	.057
MN N4-1 3572	-	-	-	.037
MN N4-1 3573	-	-	-	.073
MN HK-1 3583	-	-	1.79	.063
MN HK-1 3588	-	-	2.23	.055
MN HK-1 3591	2.37	-	4.65	.382
STANDARD R-1/AG-1/AU-1	.83	1.36	.98	.097



FR

- 1 GM SAMPLE LEACHED IN 50 ML AQUA - REGIA, ANALYSIS BY ICP. AG** & AU** BY FIRE ASSAY FROM 1 A.T.
 - SAMPLE TYPE: ROCK PULP

DATE RECEIVED: AUG 7 1991

DATE REPORT MAILED: Aug 14/91

SIGNED BY *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE (604) 253-3158 FAX (604) 253-1716

ASSAY CERTIFICATE

Homestake Canada Limited PROJECT 3128 FILE # 91-2954R2

SAMPLE#	SAMPLE AU-100 NATIVE			AVG.
	wt. gm	oz/t	Au mg	oz/t
MN-HK-1 3591	1000	.401	.01	.401

-100 MESH AU BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: ROCK PULP

DATE RECEIVED: OCT 8 1991

DATE REPORT MAILED: *Oct 15/91.*

SIGNED BY *Chung* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Tl %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
MN-HK-3 1+00N 3+60E	1	170	3	51	.2	164	35	432	4.09	7	5	ND	1	57	.2	2	2	67	.57	.051	5	229	2.82	80	.14	3	2.12	.03	.09	1	7	8
MN-HK-3 1+00N 3+70E	1	83	4	63	.1	152	30	435	3.83	35	5	ND	1	110	.2	2	2	73	.63	.056	6	221	2.48	116	.10	7	1.91	.03	.08	1	14	11



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	V ppm	Au** ppb
MN-HK-1 3544	1	137	2	36	.3	4	13	503	4.80	8	5	ND	1	16	.2	2	2	114	.87	.123	3	9	1.34	14	.32	2	1.48	.10	.13	1	11
MN-HK-1 3546	27	15	2	9	.1	13	3	219	.67	2	5	ND	3	8	.2	2	2	9	.22	.017	5	13	.39	30	.04	3	.34	.03	.05	1	1
-RE HP-1 3632	12	7	26	53	1.7	4	1	178	2.44	12402	5	ND	10	13	.2	92	2	2	.20	.007	72	1	.03	10	.01	2	.18	.01	.14	1	656
MN-N2-1 3616	6	59	4	46	.2	18	7	1215	3.13	39	5	ND	1	752	.2	22	2	18	14.40	.086	6	9	1.06	43	.01	5	.30	.01	.14	1	17
WP-05-1 3617	1	29	7	30	.2	9	4	1301	2.75	3	5	ND	1	93	.2	2	2	76	6.57	.091	2	13	1.18	9	.13	10	2.29	.03	.05	1	3
MN-N1-1 3618	1	3	3	42	.1	120	27	1164	5.31	2	5	ND	1	195	.2	2	2	97	8.61	.006	2	186	5.15	21	.01	5	.58	.02	.17	1	1
WP-05-1 3631	1	54	4	21	.2	13	4	392	1.35	2	5	ND	1	35	.2	2	2	58	3.76	.105	2	13	.56	14	.15	18	2.15	.07	.10	1	1
HP-1 3632	12	8	26	52	1.7	3	1	185	2.45	12461	5	ND	10	14	.2	94	2	2	.27	.008	71	1	.04	10	.01	2	.21	.01	.14	1	530
HP-1 3633	11	22	31	22	3.0	21	10	79	4.19	779	5	ND	6	8	.2	15	2	6	.07	.008	68	5	.02	11	.01	2	.31	.05	.20	1	46
HP-1 3635	7	5	31	145	.5	3	2	76	3.89	149	5	ND	5	3	.2	5	2	1	.05	.001	21	4	.03	3	.01	2	.30	.01	.12	1	49
HP-1 3636	7	4	26	7	.3	4	1	51	1.21	101	5	ND	3	15	.2	3	2	1	.03	.004	26	5	.01	18	.01	2	.16	.01	.23	1	16
MN-HK-1 3945	1	603	5	18	.4	71	53	272	3.55	108	5	ND	1	47	.2	2	3	67	1.28	.100	3	37	1.26	48	.21	4	1.34	.11	.13	1	4
MN-HK-1 3986	1	654	34	1875	50.0	69	35	786	10.73	733	5	15	1	37	20.0	2	2	37	2.71	.088	2	27	1.82	15	.03	3	1.70	.01	.21	8	11041
MN-HK-1 3987	1	114	2	70	1.2	300	35	523	3.77	18	5	ND	1	16	.3	2	2	60	2.70	.024	2	731	5.00	3	.07	3	2.82	.01	.01	1	78
MN-HK-1 3988	1	40	3	46	.1	217	26	491	9.15	106	5	ND	1	15	.2	2	2	172	2.94	.060	2	199	6.75	5	.01	15	4.75	.01	.01	1	11
MN-HK-1 3989	1	66	5	60	.3	246	34	1762	4.33	32	5	ND	1	72	.2	2	2	51	12.41	.021	2	440	5.66	5	.01	4	1.04	.01	.02	1	14
MN-HK-1 3990	1	31	2	121	.4	215	36	1255	4.31	46	5	ND	1	89	.3	2	2	52	11.81	.007	2	527	3.97	18	.01	2	2.41	.01	.01	1	57
STANDARD C/AU-R	18	57	35	132	6.9	69	33	1033	3.92	39	16	6	38	52	18.3	16	19	55	.48	.089	38	58	.88	175	.09	32	1.88	.06	.15	11	463

Samples beginning 'RE' are duplicate samples.

GEOCHEMICAL ANALYSIS CERTIFICATE

MSTR - Uisty nice

UB



Homestake Canada Limited PROJECT 3128 File # 91-3569 Page 1

1000 - 700 W. Pender St., Vancouver BC V6C 1G8



Table with columns: SAMPLE#, Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Au, Th, Sr, Cd, Sb, Bi, V, Ca, P, La, Cr, Mg, Ba, Ti, B, Al, Na, K, W, Tl, Au**. Rows include sample IDs like MN-HK-1 3542 and various element concentrations in ppm and %.

traces

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB - SAMPLE TYPE: ROCK AU** ANALYSIS BY FA/ICP FROM 10 GM SAMPLE. Samples beginning 'RR' are duplicate samples.

DATE RECEIVED: AUG 16 1991 DATE REPORT MAILED: Aug 23/91 SIGNED BY: D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Tl	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppb	
MN-EL-1 3681	1	112	31	144	.2	29	24	829	6.10	11	5	ND	1	43	1.3	18	2	102	3.60	.104	6	20	.87	96	.01	7	.57	.01	.17	1	2	7
MN-EL-1 3682	1	55	5	78	.6	17	15	1308	5.98	27	7	ND	1	96	.3	19	2	72	11.55	.048	5	19	1.13	145	.01	3	.40	.01	.06	2	2	1
MN-HK-1 3691	2	421	29	63	12.0	186	28	579	12.66	278	5	4	1	16	.2	2	8	87	1.96	.015	2	696	2.32	5	.07	2	1.45	.01	.01	1	2	2036
MN-HK-1 3692	5	1312	13	102	11.9	108	17	672	7.78	137	5	ND	1	10	.3	3	116	84	.90	.013	2	485	3.65	9	.10	4	2.31	.01	.07	4	2	545
MN-HK-1 3693	1	1033	2	419	1.2	231	38	1175	6.58	99	5	ND	1	7	3.0	2	7	97	.69	.016	2	760	5.36	7	.09	4	5.19	.01	.02	3	2	83
MN-HK-1 3694	4	567	60	84	98.4	102	25	376	16.16	386	5	7	1	10	.6	2	194	52	.64	.011	2	385	1.21	7	.06	3	.93	.01	.05	1	2	5329
MN-HK-1 3695	5	548	6	68	1.9	67	22	642	7.16	64	5	ND	1	27	.3	3	8	95	1.63	.063	5	142	2.79	47	.08	4	2.33	.02	.37	1	2	53
MN-HK-1 3696	5	2403	16	156	21.8	128	23	527	12.40	224	5	4	1	18	1.6	2	87	93	1.60	.012	2	781	2.07	7	.06	2	1.37	.01	.04	2	2	1644
MN-HK-1 3697	3	1135	27	58	16.3	76	16	179	6.51	201	5	3	1	5	.5	2	54	57	.09	.008	2	596	1.30	17	.01	3	.83	.01	.09	1	2	1003
MN-HK-1 3698	8	136	2	77	1.6	122	23	843	4.25	16	5	ND	1	44	.2	2	5	97	4.53	.042	2	358	3.98	18	.11	2	2.56	.02	.10	1	2	74
MN-HK-1 3699	23	4072	653	407	27.6	53	8	333	3.78	65	5	ND	1	5	5.1	10	363	25	.35	.007	2	129	1.13	16	.01	3	.76	.01	.04	4	2	234
MN-HK-1 3700	1	347	3	52	.9	194	40	478	5.37	28	5	ND	1	25	.2	2	8	72	2.56	.019	2	658	3.22	8	.06	2	1.58	.01	.04	1	2	13
MN-HK-1 3701	37	282	100	59	35.3	49	7	160	6.18	181	5	3	1	5	.4	2	205	36	.11	.008	2	229	.95	20	.02	2	.62	.01	.11	1	2	2274
MN-HK-1 3702	3	1045	12	96	6.7	65	14	511	7.78	151	5	ND	1	43	.8	4	108	97	2.13	.053	4	222	2.61	25	.18	3	1.90	.03	.13	2	2	234
RE MN-HK-1 3699	23	4154	660	432	23.8	52	8	313	3.90	66	5	ND	1	5	5.4	12	356	25	.31	.007	2	128	1.12	21	.01	3	.76	.01	.04	5	2	276
MN-HK-1 3703	4	756	11	72	3.8	70	18	575	6.90	118	5	ND	1	20	.2	4	20	107	2.54	.063	3	156	2.65	21	.19	2	2.10	.02	.14	1	2	842
MN-HK-1 3704	1	354	2	114	.7	163	33	1032	4.03	22	5	ND	1	59	.9	2	4	78	6.58	.017	2	566	3.75	4	.10	2	2.24	.03	.02	2	2	32
MN-HK-1 3705	1	2265	6	213	2.2	218	40	1113	5.97	105	5	ND	1	40	2.2	4	12	89	5.71	.046	4	465	3.90	11	.06	2	2.83	.01	.05	5	2	44
MN-HK-1 3706	1	186	2	59	.5	317	34	893	5.22	146	5	ND	1	45	.2	2	3	94	5.57	.069	5	547	5.28	14	.18	2	3.01	.02	.04	2	2	15
MN-N3-1 3707	7	165	84	472	1.5	67	10	740	3.30	190	5	ND	1	291	4.8	7	2	47	10.24	.106	4	39	1.52	50	.01	2	.40	.01	.13	3	2	44
HP 3637	6	47	24	67	20.3	11	2	81	2.42	1800	5	ND	12	14	.2	61	2	2	.28	.008	87	11	.06	14	.01	2	.24	.02	.31	1	2	697
STANDARD C/AU-R	18	58	40	139	6.8	74	33	1089	4.02	39	15	7	36	53	18.4	14	19	57	.51	.094	37	61	.93	184	.09	34	1.98	.06	.16	11	2	463

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Samples beginning 'RE' are duplicate samples.



ASSAY CERTIFICATE

NTS GBlood



Homestake Canada Limited PROJECT 3128

FILE # 91-3569R

SAMPLE#

Cu % Ag** oz/t Au** oz/t

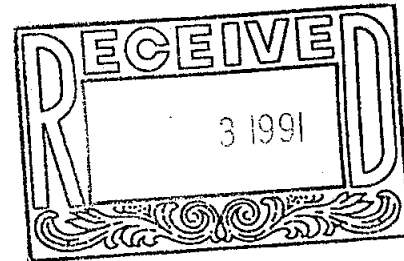
MN-HK-1 3661	.69	3.05	.285
MN-HK-1 3662	.04	.79	.173
MN-HK-1 3663	.17	1.34	.121
MN-HK-1 3664	.02	.22	.025
MN-HK-1 3691	.04	.33	.085
MN-HK-1 3692	.13	.32	.027
MN-HK-1 3694	.06	2.97	.242
MN-HK-1 3696	.24	.63	.060
MN-HK-1 3697	.11	.43	.053
MN-HK-1 3701	.03	.96	.096
MN-HK-1 3703	.07	.09	.031
STANDARD R-1/AG-1/AU-1	.89	.98	.098

- 1 GM SAMPLE LEACHED IN 50 ML AQUA - REGIA, ANALYSIS BY ICP.
 - SAMPLE TYPE: ROCK PULP
 AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.

DATE RECEIVED: SEP 27 1991

DATE REPORT MAILED: *Oct 2/91*

SIGNED BY.....*C. Leong*.....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE

Homestake Canada Limited PROJECT 3128 FILE # 91-3569R2

SAMPLE#	SAMPLE wt. gm	AU-100 oz/t	NATIVE Au mg	AVG. oz/t
MN-HK-1 3661	800	.272	ND	.272
MN-HK-1 3662	550	.280	ND	.280
MN-HK-1 3663	700	.150	ND	.150
MN-HK-1 3691	700	.091	ND	.091
MN-HK-1 3694	650	.161	ND	.161
MN-HK-1 3696	650	.057	ND	.057
MN-HK-1 3697	800	.060	ND	.060
MN-HK-1 3701	650	.166	ND	.166

-100 MESH AU BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: ROCK PULP

DATE RECEIVED: OCT 8 1991

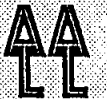
DATE REPORT MAILED: Oct 15/91.

SIGNED BY.....*C. Leong*.....D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE

WSTR- Uisty Nic



Homestake Canada Limited PROJECT 3128 File # 91-3583
1000 - 700 W. Pender St., Vancouver BC V6C 1G8

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppb	
MN-EL-1 3623	1	203	2	27	.2	26	17	502	3.56	35	5	ND	1	59	.2	2	2	62	1.15	.064	2	40	1.31	63	.18	2	1.56	.06	.05	2	2	5
MN-EL-1 3624	1	130	2	40	.1	15	13	1708	3.83	3	5	ND	2	216	.3	2	2	53	21.57	.012	7	8	1.88	83	.01	2	1.65	.01	.03	3	2	20
MN-EL-1 3625	1	197	14	519	7.1	21	15	895	3.53	23	5	ND	1	114	8.3	47	2	66	8.55	.039	2	13	2.11	142	.01	5	.34	.01	.08	1	2	1
MN-N2-1 3626	1	87	3	105	.2	4	13	1134	4.19	13	5	ND	1	98	.5	2	2	72	6.17	.075	5	10	1.10	49	.01	2	1.35	.03	.10	1	2	3
RE MN-N3-1 3686	26	2185	6	31	.7	69	201	638	16.78	15	5	ND	1	43	.7	2	15	25	2.56	.020	9	16	.55	2	.01	2	.70	.01	.11	31	2	10
MN-N2-1 3627	1	32	58	441	.5	1	8	2078	4.73	892	5	ND	2	206	3.4	11	2	32	18.96	.024	6	5	.97	47	.01	2	1.42	.01	.03	1	2	8
MN-N2-1 3628	23	239	9	66	.5	8	15	529	4.83	26	5	ND	1	27	.4	2	6	101	2.27	.080	4	12	.81	41	.14	3	1.02	.04	.07	3	2	22
MN-N2-1 3629	2	53	3	2	.1	103	73	154	3.61	11	5	ND	1	27	.2	2	2	30	1.29	.057	2	63	.85	18	.12	3	1.48	.03	.08	2	2	7
MN-N3-1 3630	15	217	8	43	.2	98	20	862	4.44	40	5	ND	2	129	.3	6	5	117	7.88	.093	16	200	2.08	23	.10	4	1.59	.03	.37	2	2	5
MN-N3-1 3686	30	2464	7	34	.7	78	225	693	18.88	21	5	ND	1	44	1.3	3	17	27	2.59	.023	10	21	.60	4	.01	7	.77	.01	.12	34	3	9
MN-N3-1 3811	197	158	9	63	.4	101	51	147	7.58	11	5	ND	1	18	.6	2	5	55	1.74	.671	71	23	.58	19	.01	4	1.37	.03	.29	1	2	1
MN-N3-1 3812	56	2150	13	75	3.2	82	88	1054	16.52	292	11	ND	2	280	1.4	8	51	78	7.68	.039	10	16	.46	9	.01	3	.18	.01	.08	2	2	34
MN-N3-1 3814	9	735	2	47	1.0	49	101	732	21.37	15	7	ND	1	45	.9	2	25	122	1.05	.085	4	15	.52	1	.03	5	.88	.05	.07	3	2	88
MN-N3-1 3815	93	174	41	25	1.1	26	9	267	2.80	4	5	ND	1	70	.4	2	17	30	1.39	.038	4	20	.17	31	.01	3	.23	.02	.10	1	2	179
MN-N3-1 3816	4	6990	2	63	2.6	28	15	1021	4.10	733	5	ND	2	56	.4	66	41	8	7.52	.003	3	6	1.90	382	.01	4	.18	.01	.12	1	2	17
MN-N3-1 3817	69	231	364	12	9.1	15	5	1740	1.63	26	5	ND	2	136	.2	9	55	7	15.68	.004	2	9	.52	150	.01	2	.08	.01	.05	1	2	51
MN-N3-1 3818	13	6911	4	492	11.8	70	48	1741	5.78	2118	5	ND	2	329	2.8	597	36	21	11.98	.050	5	3	3.68	57	.01	2	.21	.01	.15	1	2	117
MN-N3-1 3819	23	122	4	106	.4	43	10	164	2.92	96	5	ND	1	17	1.4	2	2	35	2.01	.010	2	10	1.00	86	.01	5	.27	.01	.10	1	2	12
MN-N3-1 3820	5	122	2	48	.2	29	18	555	4.05	14	5	ND	1	35	.2	2	2	61	2.31	.017	2	34	1.22	49	.01	5	.21	.01	.03	1	2	6
MN-N3-1 3841	18	226	2	41	.3	33	16	477	4.87	21	5	ND	1	38	.2	6	2	127	.82	.100	9	116	1.65	35	.32	3	1.29	.05	.28	3	2	1
MN-N3-1 3842	11	16	2	1	.1	12	2	450	.98	34	5	ND	1	38	.2	2	2	6	3.05	.008	2	12	.05	84	.01	2	.05	.01	.04	1	2	4
MN-N3-1 3843	11	12	2	1	.1	53	4	579	1.29	7	5	ND	1	28	.2	3	2	13	3.03	.002	2	19	1.20	25	.01	4	.01	.01	.02	2	2	98
MN-N3-1 3844	870	1256	10	17	.5	34	56	455	8.45	14	5	ND	2	1884	.4	2	15	13	1.30	.009	3	15	.50	11	.01	2	.12	.01	.07	1	3	9
MN-N3-1 3845	12	84	2	37	.2	352	44	1154	5.22	457	5	ND	1	198	.2	5	4	32	7.59	.052	3	204	6.31	25	.01	6	.29	.01	.22	2	2	1
MN-M1-1 3708	3	1	2	1	.1	11	1	162	.51	9	5	ND	1	19	.2	2	2	1	.43	.042	9	10	.13	184	.01	5	.32	.05	.14	1	2	1
STANDARD C/AU-R	18	59	40	134	7.0	70	34	1079	4.04	40	21	7	38	51	18.4	16	18	54	.49	.095	38	57	.88	185	.10	31	2.00	.06	.16	11	2	466

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU** ANALYSIS BY FA/ICP FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 16 1991 DATE REPORT MAILED: *Aug 22/91.* SIGNED BY: *C. Leung* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL ANALYSIS CERTIFICATE

WTR - RUSTY MILK
MR

Homestake Canada Limited PROJECT 3128 File # 91-3585

1000 - 700 W. Pender St., Vancouver BC V6C 1G8

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppb
MN-N3-2 3813	10	543	19	169	1.6	89	87	1020	23.83	97	5	ND	3	22	1.6	2	7	111	.35	.082	17	16	.62	49	.01	7	1.12	.01	.05	1	4	7
MN-N1-3 JL26-P2	3	271	10	111	.2	145	67	703	4.35	27	5	ND	1	102	.8	2	2	84	1.58	.059	4	202	2.38	143	.15	4	3.19	.03	.07	1	2	7
MN-N1-3 JL26-P4	1	61	2	47	.1	43	20	542	3.14	6	5	ND	1	44	.2	2	2	66	.51	.048	7	82	1.17	108	.09	2	1.37	.01	.05	1	2	2
MN-N1-3 JL26-P7	1	66	3	57	.1	44	19	601	3.29	12	5	ND	1	42	.3	2	2	65	.53	.051	7	74	1.15	109	.09	4	1.52	.01	.06	1	2	2
MN-N3-3 AAR-1	9	271	5	99	.3	217	38	896	4.42	24	7	ND	2	86	.4	2	2	83	1.47	.108	15	344	4.25	234	.10	5	2.48	.03	.41	1	2	10
RE MN-N3-3 AAR-5	11	201	7	106	.2	127	33	807	4.88	144	5	ND	1	163	.4	2	2	93	1.45	.104	12	202	2.98	220	.10	7	2.06	.03	.16	1	3	13
MN-N3-3 AAR-2	9	262	6	91	.2	202	38	905	4.10	22	7	ND	1	180	.5	2	3	76	1.17	.095	13	287	4.07	175	.12	8	2.34	.04	.22	1	2	5
MN-N3-3 AAR-3	11	378	5	97	.3	165	32	629	3.67	13	9	ND	1	269	.5	2	2	70	1.64	.103	13	239	3.79	154	.12	10	2.12	.03	.26	1	2	11
MN-N3-3 AAR-4	13	243	8	96	.3	141	35	831	4.48	20	5	ND	1	196	.2	2	2	76	1.33	.115	18	234	2.83	218	.07	7	1.98	.03	.23	1	2	19
MN-N3-3 AAR-5	11	200	5	106	.3	130	33	797	4.87	148	5	ND	1	167	.4	2	2	94	1.42	.104	12	199	2.93	218	.10	5	2.05	.03	.16	1	3	19
MN-N3-3 AAR-6	12	199	15	118	.3	129	36	755	5.01	253	5	ND	1	145	.5	2	4	91	1.41	.103	11	167	2.66	186	.08	6	1.90	.03	.15	2	2	9
MN-N3-3 L20+00S 14+00W	19	102	45	305	.9	80	29	1270	7.63	243	5	ND	1	45	2.7	8	2	125	.52	.100	7	67	.33	613	.01	2	1.24	.01	.09	1	2	56
MN-N3-3 L20+00S 13+75W	6	204	36	224	.9	216	58	978	12.75	314	5	ND	1	12	.9	8	10	158	.08	.089	10	294	.34	282	.01	2	1.48	.01	.05	1	6	10
MN-N3-3 L20+00S 13+50W	5	283	28	263	5.4	269	67	3141	14.51	1487	5	ND	1	38	1.8	32	3	201	1.46	.064	7	382	.56	813	.01	2	.58	.01	.05	1	5	63
MN-N3-3 L20+00S 13+40W	13	272	29	295	3.0	146	34	2417	8.94	398	5	ND	1	49	3.5	19	3	69	.43	.168	23	42	.06	1668	.01	2	.82	.01	.06	1	4	36
STANDARD C/AU-S	19	57	37	132	7.4	70	32	1052	3.96	44	24	7	40	52	18.7	15	21	56	.48	.090	40	57	.88	176	.09	33	1.88	.06	.15	11	2	46

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: SOIL AU** ANALYSIS BY FA/ICP FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 16 1991

DATE REPORT MAILED: Aug 22/91.

SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



ACHE ANALYTICAL



ACHE ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
BN-N2-1 3869	2	9	5	19	.1	9	8	788	2.23	6	5	ND	1	237	.3	2	2	4	3.56	.034	2	8	.21	38	.01	2	.29	.02	.06	1	2	8
BN-N2-1 3870	3	11	2793	20	313.9	8	9	106	7.36	2	5	249	1	10	.2	2	38	5	.07	.027	2	7	.04	70	.01	2	.21	.02	.06	112	2	99999
BN-N2-1 3871	22	5	21	22	1.4	3	2	109	2.71	22	5	ND	19	4	.2	2	2	4	.04	.004	38	3	.03	30	.02	2	.34	.06	.01	1	2	1298
BN-N2-1 3872	7	9	15	79	.4	2	3	716	3.23	2	5	ND	8	59	.2	2	2	6	1.14	.011	35	4	.02	23	.01	3	.16	.05	.07	1	2	171
BN-N2-1 3873	6	13	16	6	1.4	7	1	1025	1.24	2	5	ND	1	186	.2	2	2	1	4.20	.002	2	6	.02	37	.01	2	.04	.01	.01	1	2	921
BN-N2-1 3874	3	3	11	84	.1	4	4	1191	3.42	4	8	ND	8	16	.3	2	2	3	.76	.018	65	2	.09	13	.01	2	.31	.05	.09	1	2	35
BN-N2-1 3875	58	2013	20	14	2.1	9	5	198	1.72	11	5	ND	1	4	.2	9	12	1	.16	.003	2	10	.01	37	.01	2	.03	.01	.01	2	2	126
RE BN-N2-1 3874	4	2	9	96	.1	3	4	1346	3.91	2	5	ND	8	15	.3	2	2	4	.80	.021	75	2	.10	12	.01	2	.36	.05	.11	1	2	24
MN-N3-1 3668	11	152	28	46	3.0	47	10	234	3.87	493	5	ND	1	39	.3	34	2	45	.52	.113	2	24	.10	360	.01	5	.29	.01	.12	1	2	84
STANDARD C/AU-R	19	57	37	133	7.5	73	31	1050	4.00	41	18	7	39	52	18.6	14	22	55	.48	.091	38	59	.88	179	.09	36	1.90	.06	.15	12	2	478

Samples beginning 'RE' are duplicate samples.



ACHE ANALYTICAL

Homestake Canada Limited PROJECT 3130-BANDIT FILE # 91-3970

Page 3



ACHE ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Tl %	B ppm	Al %	Na %	K %	W ppm	U ppm	Tl ppm	Au** ppb
MN-N3-3 L16+00S 12+00W	1	76	4	94	.1	49	25	737	6.48	19	5	ND	2	14	.4	2	2	149	.23	.064	6	132	1.78	123	.07	2	2.74	.01	.04	1	2	3	

AA

GEOCHEMICAL ANALYSIS CERTIFICATE

Homestake Canada Limited PROJECT 3128 File # 91-4475

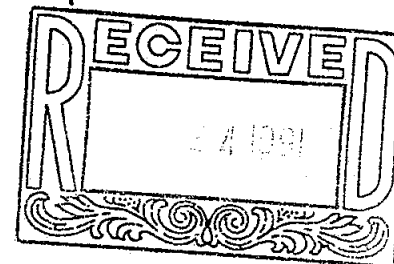
1000 - 700 W. Pender St., Vancouver BC V6C 1G8

AA

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppb
MN-HK-1 3826	9	37	10	27	1.1	418	36	797	2.99	17379	5	ND	1	294	.7	3096	2	13	11.36	.003	2	98	6.12	185	.01	2	.06	.01	.01	1	2	2
MN-HK-1 3827	45	10083	46	157	57.0	152	20	127	9.12	49	5	ND	2	3	2.8	3	1435	64	.05	.005	2	632	1.50	5	.06	2	.79	.01	.01	1	2	78
MN-HK-1 3828	28	41465	77	618	123.6	309	30	136	13.41	46	5	ND	2	2	11.2	2	1809	46	.04	.001	2	364	1.41	3	.03	2	.88	.01	.01	1	2	163
RE MN-HK-1 3826	10	42	13	30	.9	449	38	821	3.13	17859	6	ND	1	295	.5	3166	2	13	12.17	.002	2	103	6.66	182	.01	2	.06	.01	.01	1	2	3

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
 - SAMPLE TYPE: ROCK AU** ANALYSIS BY FA/ICP FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: SEP 16 1991

DATE REPORT MAILED: *Sept 20/91*SIGNED BY: *C. King* .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS



ASSAY CERTIFICATE

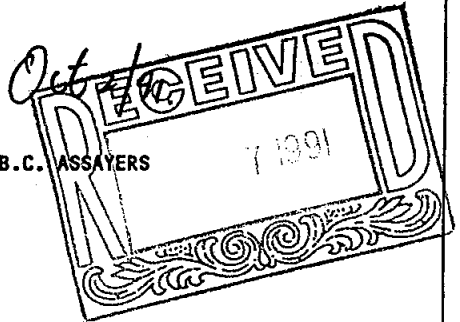


Homestake Canada Limited PROJECT 3128 FILE # 91-4475R

SAMPLE#	Cu %	Ag** oz/t	Au** oz/t
MN-HK-1 3827	1.07	1.57	.003
MN-HK-1 3828	4.67	3.43	.004
RE MN-HK-1 3828	4.72	3.54	.004

- 1 GM SAMPLE LEACHED IN 50 ML AQUA - REGIA, ANALYSIS BY ICP.
 - SAMPLE TYPE: ROCK PULP
 AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: SEP 27 1991

DATE REPORT MAILED: *Oct 1/91*SIGNED BY.....*C. Kwong*.....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE (604) 253-3158 FAX (604) 253-1716

ASSAY CERTIFICATE

Homestake Canada Limited PROJECT 3128 FILE # 91-4475R2

SAMPLE#	SAMPLE AU-100 NATIVE		AVG.	
	wt. gm	oz/t	Au mg	oz/t
MN-HK-1 3827	900	.003	ND	.003
MN-HK-1 3828	1050	.003	ND	.003

-100 MESH AU BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: ROCK PULP

DATE RECEIVED: OCT 8 1991

DATE REPORT MAILED: *Oct 15/91*

SIGNED BY *Chung* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

100 mesh screened Au.



GEOCHEMICAL ANALYSIS CERTIFICATE

Homestake Canada Limited PROJECT 3132 File # 91-4900
 1000 - 700 W. Pender St., Vancouver BC V6C 1G8

*Wolverine JV
Phil*

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppb
MN-HK-1 TRENCH 1	5	1539	5	37	.3	152	121	473	4.87	9	5	ND	1	62	.2	2	9	77	1.05	.123	8	313	3.43	38	.20	2	2.30	.04	.10	1	2	10
MN-HK-1 TRENCH 3 #1-1	2	3487	23	26	27.1	28	24	82	18.90	171	5	2	1	4	1.0	5	127	5	.63	.001	2	48	.09	6	.01	2	.08	.01	.01	1	2	755
MN-HK-1 TRENCH 3 #1-2	3	1694	22	36	51.0	38	13	84	8.15	175	5	7	1	3	1.0	2	80	7	.48	.001	2	57	.15	6	.01	2	.12	.01	.01	1	2	5687
MN-HK-1 TRENCH 3 #1-3	8	19869	6	46	1.5	328	156	553	7.31	19	5	ND	1	23	1.7	2	27	123	.61	.099	3	324	4.46	45	.12	7	3.37	.02	.06	1	4	91
MN-HK-1 TRENCH 4	9	5436	8	21	2.4	87	54	317	4.76	74	5	ND	1	41	.6	2	19	52	.97	.251	5	120	1.52	37	.21	2	1.38	.06	.09	1	3	147
RE MN-HK-1 TRENCH 3 #1-1	1	3666	29	28	27.6	28	24	83	19.01	173	5	3	1	3	1.0	4	132	5	.46	.002	2	48	.09	5	.01	2	.07	.01	.01	1	2	731
STANDARD C/AU-R	19	56	42	133	7.0	70	33	1044	3.99	41	19	7	37	51	18.4	16	19	55	.48	.091	38	58	.88	178	.09	31	1.89	.06	.15	13	2	475

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
 - SAMPLE TYPE: ROCK AU** ANALYSIS BY FA/ICP FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: OCT 3 1991 DATE REPORT MAILED: *Oct 10/91* SIGNED BY: *[Signature]* .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

APPENDIX V
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Philip James Southam, of #106 - 8675 Laurel Street, Vancouver, British Columbia, Canada, hereby certify that:

1. I am a graduate of Brandon University, Brandon, Manitoba, Canada, having been granted the degree of Bachelor of Sciences - Specialist in Geology in 1987.
2. I have practiced my profession as a geologist in mineral exploration since 1987.
3. I am presently employed as a geologist with Homestake Canada Ltd. of #1000 - 700 West Pender Street, Vancouver, British Columbia.
4. I supervised and participated in the work that was completed on this property and have reviewed all previous available information.


PHILIP SOUTHAM

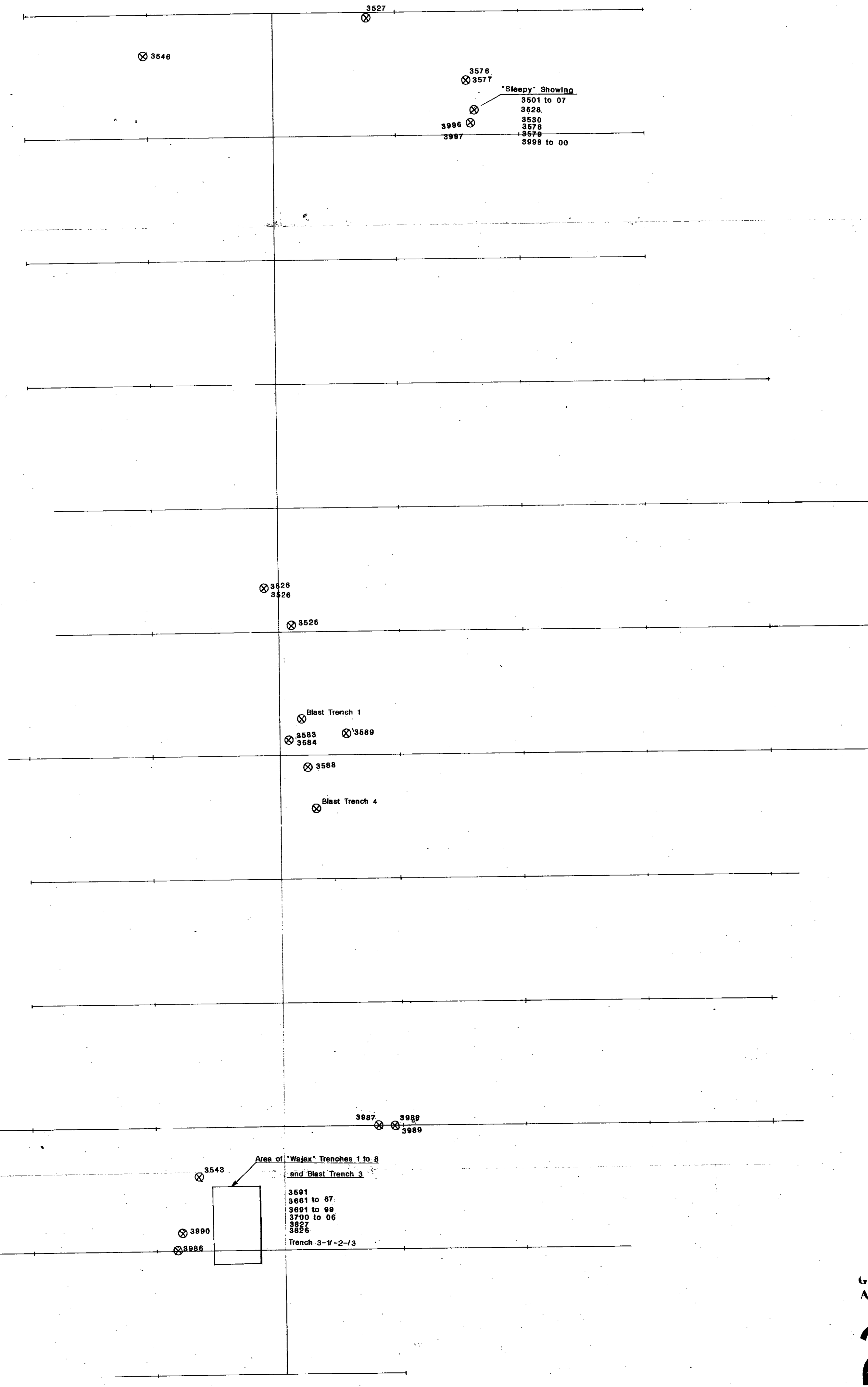
300 W 200 W 100 W BASELINE 100 E 200 E 300 E 400 E



L 900 N
L 800 N
L 700 N
L 600 N
L 500 N
L 400 N
L 300 N
L 200 N
L 100 N
L 0
L 100 S
L 200 S

ROCK GEOCHEMISTRY

Sample #	Al (ppm)	As (ppm)	Cu (ppm)	Ag (ppm)
3501	22	0.3	392	63
3502	4245	20.4	339	1472
3503	44	0.1	11	8
3504	26	0.2	123	28
3505	17	0.8	274	32
3506	100	1.4	771	276
3507	4	0.1	6	3
3526	1	0.1	15	3322
3527	2	1.4	275	82
3528	23	0.4	33	53
3530	156	2.1	135	311
3543	123	3.1	408	98
3544	11	1.0	137	8
3546	1	0.1	15	2
3576	31	0.5	441	53
3577	397	3.4	116	332
3578	26	0.4	68	58
3579	39	0.7	40	244
3583	1840	58.0	3819	122
3584	71	1.2	43676	4
3588	1879	74.6	4629	289
3589	96	4.2	2572	54
3591	14848	176.5	23921	511
3661	7876	107.9	7137	406
3662	4552	28.1	448	248
3663	3178	49.1	1844	323
3664	707	8.9	195	75
3665	201	7.4	910	165
3666	153	11.9	2743	132
3667	63	0.9	6715	42
3691	2036	12.0	421	278
3692	545	11.9	1332	137
3693	83	1.2	1033	99
3694	5329	98.4	367	366
3695	53	1.9	548	64
3696	1644	21.8	2403	224
3697	1003	16.3	1135	201
3698	74	1.6	136	16
3699	234	27.6	4072	65
3700	13	-0.9	347	28
3701	2274	35.3	282	181
3702	234	6.7	1045	151
3703	842	3.8	756	118
3704	32	0.7	354	22
3705	44	2.2	2265	105
3706	15	0.5	186	145
3826	2	1.1	37	17379
3827	78	57.0	10083	49
3828	163	123.6	41465	46
3986	11041	50.0	654	733
3987	78	1.2	114	18
3988	11	0.1	40	106
3989	14	0.3	66	32
3990	57	0.4	31	46
3996	119	1.7	180	199
3997	50	0.9	697	16
3998	119	1.7	125	167
3999	426	5.3	100	294
4000	147	3.4	302	201
Trench 1	10	0.3	1539	9
Trench 4	147	2.4	5436	74

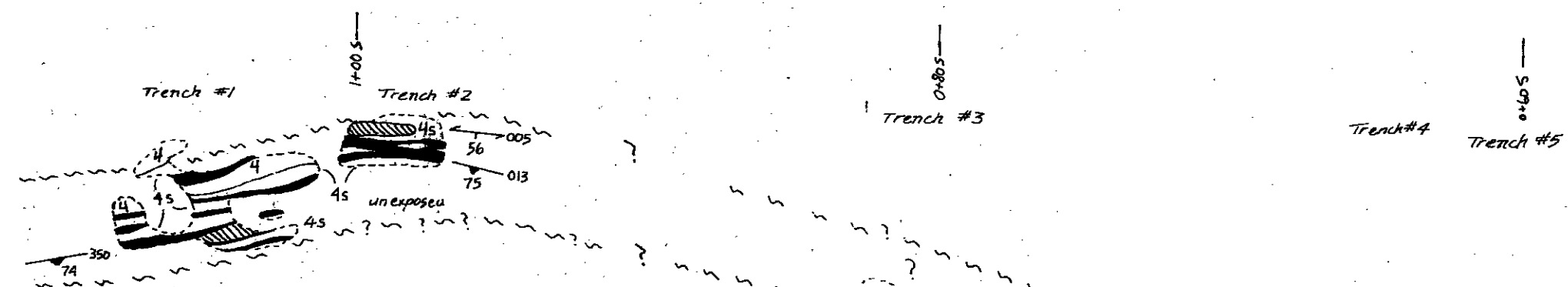


**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,947
0 20 40 60 80 100m
1:2000

**NORTH AMERICAN METALS
CORPORATION**
MISTY MIE PROPERTY, B.C.
ULTRAMAFIC GRID
SAMPLE LOCATION MAP

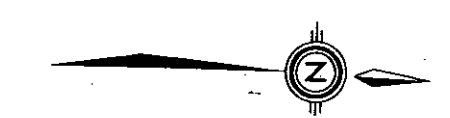
ATLIN MINING DIVISION			
Drawn	Date	File Code	FIGURE 06
Revised		104K/8	



- Samples:
- 3702 - 1.2 m TW chip; predom qz, minor sheared mvc and supergene zone py 1-3%, malachite stringers
 - 3703 - 1.0 m TW chip; same as above
 - 3704 - 1.0 m TW chip; unaltered mafic volcanic lozenge trace dissem. py, weakly foliated
 - 3705 - 0.30 m TW chip; q vein material, same as 3702
 - 3706 - 0.30 m TW chip; mafic gouge, intensely shrd no sulphides.

- 3667 - grab; highly shrd mvc beneath overlying yellow gouge
- 3666 - 0.5 m TW chip; q vein only
- 3665 - 1.0 m TW chip; q vein only 2-3% py, malachite stringers
- 3664 - 0.30 m channel; yellow clay gouge material capping zone.
- 3663 - 0.20 m chip; q vein material only
- 3662 - 0.60 m chip; shrd mvc incl q vein stringers
- 3661 - 0.30 m chip; q vein only

- 3691 - 1.0 m TW chip; wallrock, clay, q vein
- 3692 - 1.0 m TW chip chloritic mvc, minor q vein, gritty py.
- 3693 - 0.30 m TW chip; orange clay gouge with calcite inclusions - supergene
- 3694 - 1.0 m TW chip; q vein material predominantly, minor chloritic mvc lozenges.

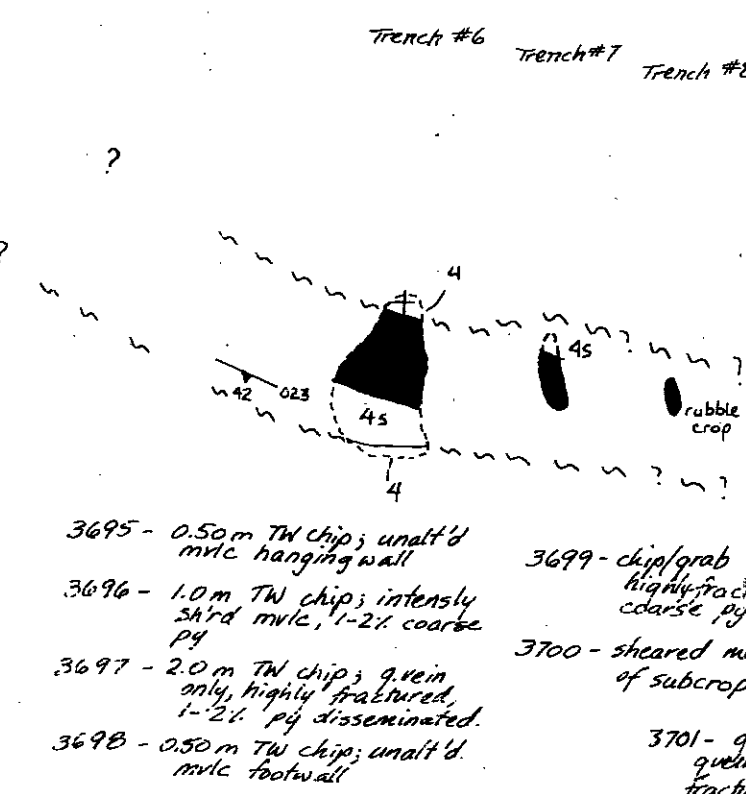


- approximate limit of alteration ± shear zone (hosting quartz vein)
- quartz vein; or predominantly quartz vein material
- 4 mafic volcanic - "fresh" - massive med. green chloritic mvc, ± plag phx
- 4s mafic volcanic - "sheared"
- quartz vein
- bedding
- foliation
- yellow clay "gouge" 10-20 cm thick - overlies zone supergene ???

Sample #	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)
3591	14542	175.5	23921	511
3661	7876	107.9	7137	406
3662	4852	28.1	448	248
3663	3178	49.1	1844	323
3664	707	8.9	195	75
3665	201	7.4	910	165
3666	153	11.9	2763	132
3667	63	0.9	6715	42
3691	2036	12.0	421	278
3692	545	11.9	1312	137
3693	83	1.2	1033	99
3694	5329	98.4	567	386
3695	51	1.9	548	64
3696	1644	21.8	2403	224
3697	1003	16.3	1135	201
3698	74	1.6	136	16
3699	234	27.6	4072	65
3700	13	0.9	347	28
3701	2274	35.3	282	181
3702	234	6.7	1045	151
3703	842	3.8	756	118
3704	32	0.7	354	22
3705	44	2.2	2265	105
3706	15	0.5	186	146
3827	78	57.0	10083	49
3828	163	123.6	41465	46
Trench 3-1	755	27.1	3487	171
Trench 3-2	5687	51.0	1694	175
Trench 3-3	91	1.5	19869	19

GEOLOGICAL BRANCH ASSESSMENT REPORT

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- 3695 - 0.50 m TW chip; unalt'd mvc hanging wall
- 3696 - 1.0 m TW chip; intensely shrd mvc, 1-2% coarse py
- 3697 - 2.0 m TW chip; q vein only, highly fractured, 1-2% py disseminated
- 3698 - 0.50 m TW chip; unalt'd mvc footwall
- 3699 - chip/grab q vein subcrop highly fractured vein, trace coarse py
- 3700 - sheared mafic volc; grab of subcrop
- 3701 - grab of subcrop, milky-white q vein - no sulphides, Fe-stained fractures

NORTH AMERICAN METALS CORPORATION

MISTY NIE PROPERTY

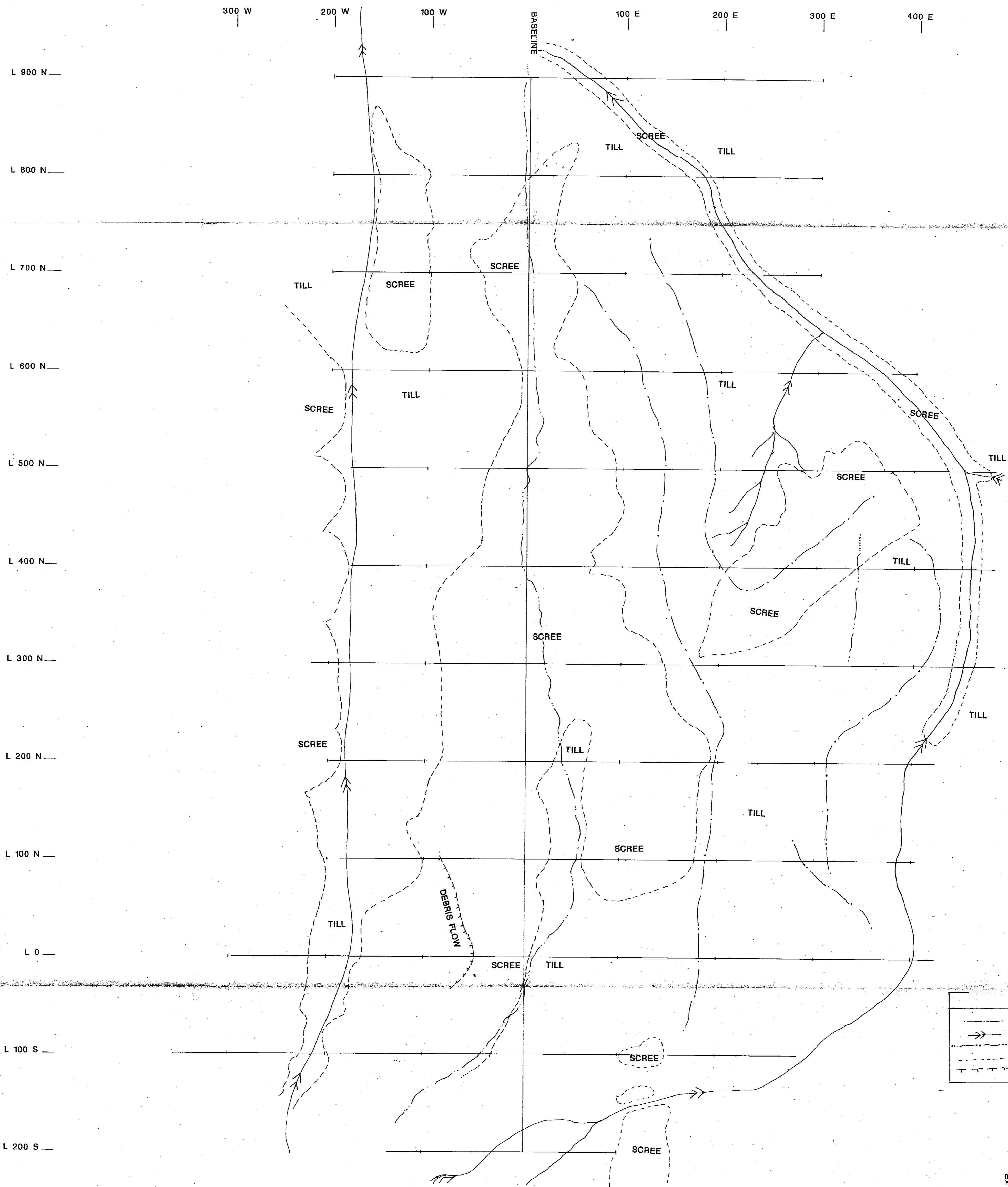
ULTRAMAFIC GRID

TRENCH MAP

GEOLOGY

Atilin Mining Division

Drawn JMH	Date AUG 91	File Code 104/K8	FIGURE 6c
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SYMBOLS	
	BREAK IN SLOPE (concave)
	CREEK (with flow direction)
	CREST OF RIDGE
	LIMIT OF SCREE
	LOBATE DEBRIS FLOW

0 20 40 60 80 100m
1:2000

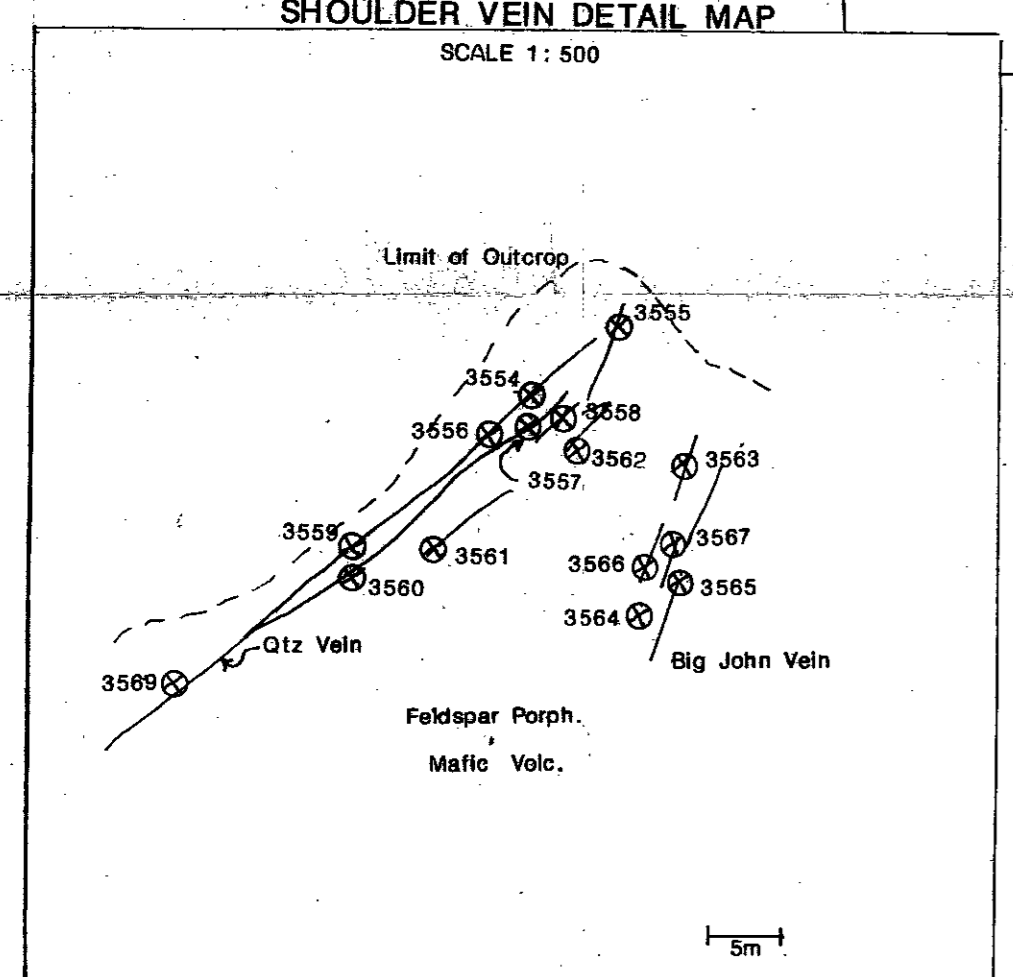
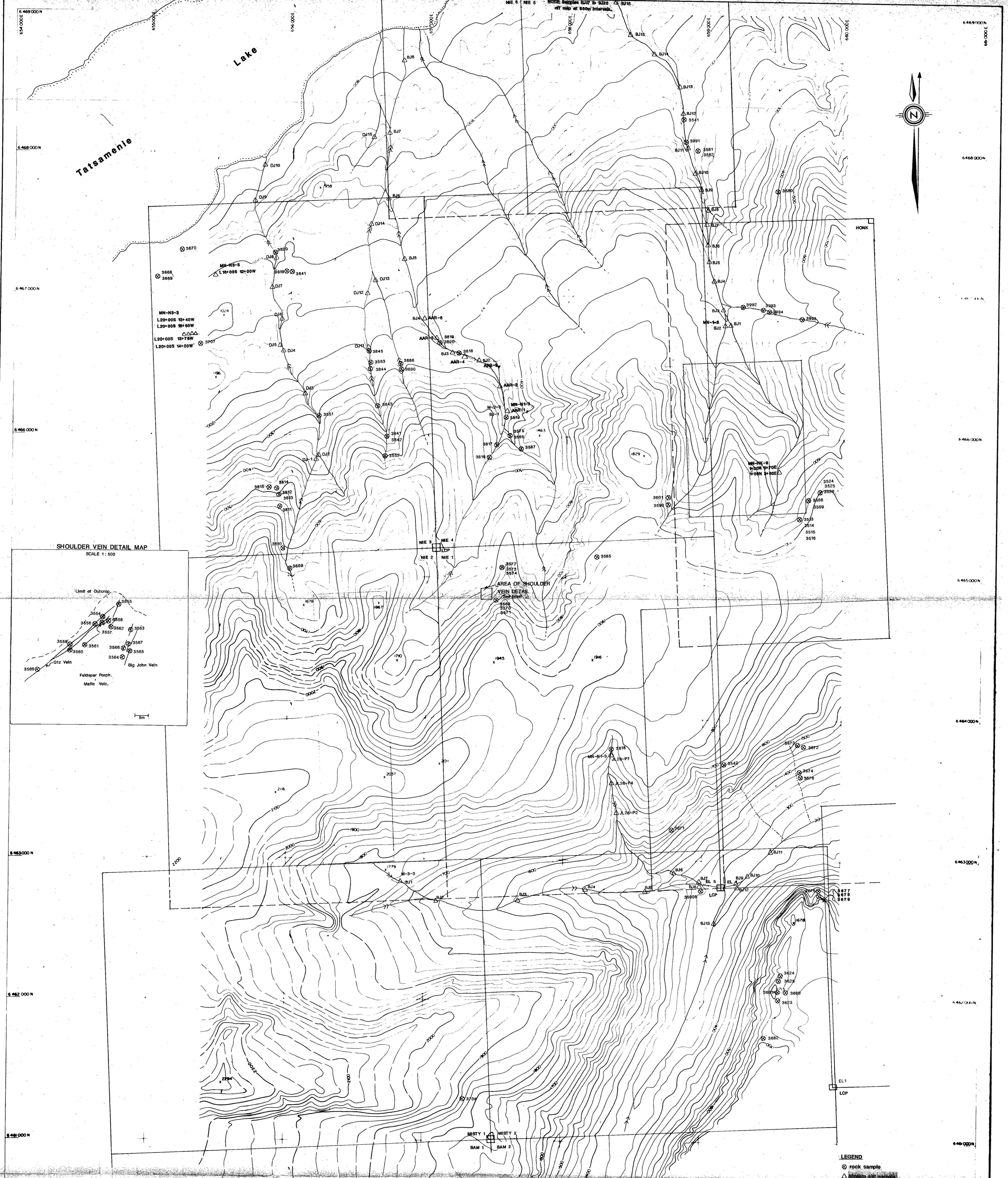
NORTH AMERICAN METALS CORPORATION
 MISTY NIE PROPERTY, B.C.
 ULTRAMAFIC GRID
 GEOMORPHOLOGY

ATLIN MINING DIVISION

Drawn DBM	Date OCT 91	File Code 104K/8	FIGURE 69
Revised			

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,947



ROCK GEOCHEMISTRY

SAMPLE #	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)		
MN-N3-1	3512	12	3.4	1444	5	
MN-N3-2	3513	5	0.1	40	2	
MN-N3-3	3514	4	0.1	130	3	
MN-N3-4	3515	1	0.1	6	3	
MN-N3-5	3516	9	0.1	77	3	
MN-N3-6	3517	6	0.1	18	9	
MN-N3-7	3518	30	0.2	230	3	
MN-N3-8	3519	123	6.4	408	86	
MN-N3-9	3520	7	0.1	195	6	
MN-N3-10	3521	22	0.3	98	3	
MN-N3-11	3522	47	0.5	192	24	
MN-N3-12	3523	354	655	48.5	576	299
MN-N3-13	3524	13	0.2	98	4	
MN-N3-14	3525	813	62.9	179	401	
MN-N3-15	3526	3511	98.4	892	1017	
MN-N3-16	3527	153	1.7	854	104	
MN-N3-17	3528	35281	41.7	363	681	
MN-N3-18	3529	7090	69.5	878	808	
MN-N3-19	3530	572	204.8	539	58	
MN-N3-20	3531	845	2.5	48	42	
MN-N3-21	3532	1111	18.5	351	101	
MN-N3-22	3533	431	18.3	1000	239	
MN-N3-23	3534	1098	22.7	189	655	
MN-N3-24	3535	130	1	2402	18	
MN-N3-25	3536	429	40.3	884	107	
MN-N3-26	3537	68	1.1	2397	48	
MN-N3-27	3538	14	0.3	12	7	
MN-N3-28	3539	1891	141	1811	208	
MN-N3-29	3540	115	0.8	439	22	
MN-N3-30	3541	1263	8.8	129	517	
MN-N3-31	3542	2363	19.7	48	718	
MN-N3-32	3543	54	0.6	10	12	
MN-N3-33	3544	35	0.8	214	86	
MN-N3-34	3545	7	0.2	101	52	
MN-N3-35	3546	7	0.1	11	5	
MN-N3-36	3547	11	0.1	11	5	

STREAM SILT GEOCHEMISTRY

SAMPLE #	Au (ppb)	Ag (ppm)	Cu (ppm)	As (ppm)		
MN-N3-37	3548	11	0.1	12	3	
MN-N3-38	3549	22	0.4	833	23	
MN-N3-39	3550	15	1.3	401	8	
MN-N3-40	3551	28	1.8	97	19	
MN-N3-41	3552	66	1.1	131	10	
MN-N3-42	3553	30	1	697	9	
MN-N3-43	3554	3619	7	0.4	117	74
MN-N3-44	3555	3620	25	0.3	25	64
MN-N3-45	3556	3621	5	0.3	40	14
MN-N3-46	3557	3622	8	1.5	109	13
MN-N3-47	3558	3623	5	0.2	303	35
MN-N3-48	3559	3624	20	0.1	130	3
MN-N3-49	3560	3625	1	7.1	197	23
MN-N3-50	3626	3	0.2	87	13	
MN-N3-51	3627	8	0.5	32	862	
MN-N3-52	3628	22	0.5	239	26	
MN-N3-53	3629	7	0.1	53	11	
MN-N3-54	3630	3	0.2	217	40	
MN-N3-55	3631	3	0.2	87	13	
MN-N3-56	3632	3	0.3	60	13	
MN-N3-57	3633	1	0.2	191	39	
MN-N3-58	3634	41	3.1	107	5	
MN-N3-59	3635	71	1	514	29	
MN-N3-60	3636	9	0.5	295	49	
MN-N3-61	3637	0	0.2	25	387	
MN-N3-62	3638	7	0.3	120	16	
MN-N3-63	3639	7	0.3	59	29	
MN-N3-64	3640	12	5.2	319	18	
MN-N3-65	3641	7	4.9	46	17	
MN-N3-66	3642	94	3	132	463	
MN-N3-67	3643	17	0.7	199	136	
MN-N3-68	3644	21	0.7	30	23	
MN-N3-69	3645	24	0.4	34	2	
MN-N3-70	3646	21	0.1	22	5	
MN-N3-71	3647	1	0.1	28	5	
MN-N3-72	3648	13	0.2	6	104	
MN-N3-73	3649	10	1.6	759	71	
MN-N3-74	3650	7	0.2	84	457	
MN-N3-75	3651	4	0.1	32	2	
MN-N3-76	3652	1	0.2	37	9	
MN-N3-77	3653	1	0.2	4	7	
MN-N3-78	3654	63	0.8	24	86	
MN-N3-79	3655	4	0.2	58	7	
MN-N3-80	3656	10	1.6	759	71	
MN-N3-81	3657	10	0.1	83	13	
MN-N3-82	3658	10	0.1	75	13	
MN-N3-83	3659	14	0.2	137	29	
MN-N3-84	3660	5	0.1	64	15	
MN-N3-85	3661	5	0.1	65	14	
MN-N3-86	3662	6	0.1	74	17	
MN-N3-87	3663	4	0.1	68	16	
MN-N3-88	3664	14	0.1	96	15	
MN-N3-89	3665	30	0.3	121	54	
MN-N3-90	3666	10	0.3	91	44	
MN-N3-91	3667	22	0.4	87	50	
MN-N3-92	3668	12	0.6	69	60	
MN-N3-93	3669	10	0.4	86	57	
MN-N3-94	3670	11	0.3	115	20	
MN-N3-95	3671	10	0.2	75	38	
MN-N3-96	3672	6	0.1	112	22	
MN-N3-97	3673	6	0.3	67	35	
MN-N3-98	3674	10	0.2	70	50	
MN-N3-99	3675	13	0.4	64	50	
MN-N3-100	3676	8	0.1	24	48	
MN-N3-101	3677	6	0.1	25	50	
MN-N3-102	3678	5	0.1	56	9	
MN-N3-103	3679	11	0.2	78	12	
MN-N3-104	3680	4	0.1	78	5	
MN-N3-105	3681	9	0.2	84	5	
MN-N3-106	3682	7	0.2	85	12	
MN-N3-107	3683	22	0.2	88	5	
MN-N3-108	3684	3	0.1	80	7	
MN-N3-109	3685	5	0.1	84	6	
MN-N3-110	3686	3	0.2	74	5	
MN-N3-111	3687	7	0.1	36	8	
MN-N3-112	3688	9	0.1	32	7	
MN-N3-113	3689	12	0.1	82	7	
MN-N3-114	3690	4	0.1	88	5	
MN-N3-115	3691	381	0.2	100	8	

LEGEND
 ● rock sample
 ▲ stream silt sample

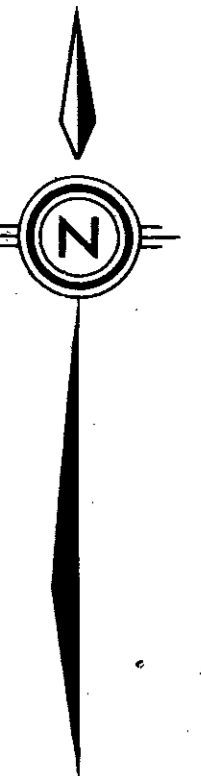
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 0 200 400 600
 meters

NORTH AMERICAN METALS CORP.
 MISTY-NIE PROPERTY, B.C.
 RECONNAISSANCE
 ROCK AND STREAM SILT
 SAMPLE LOCATIONS AND GEOCHEMISTRY

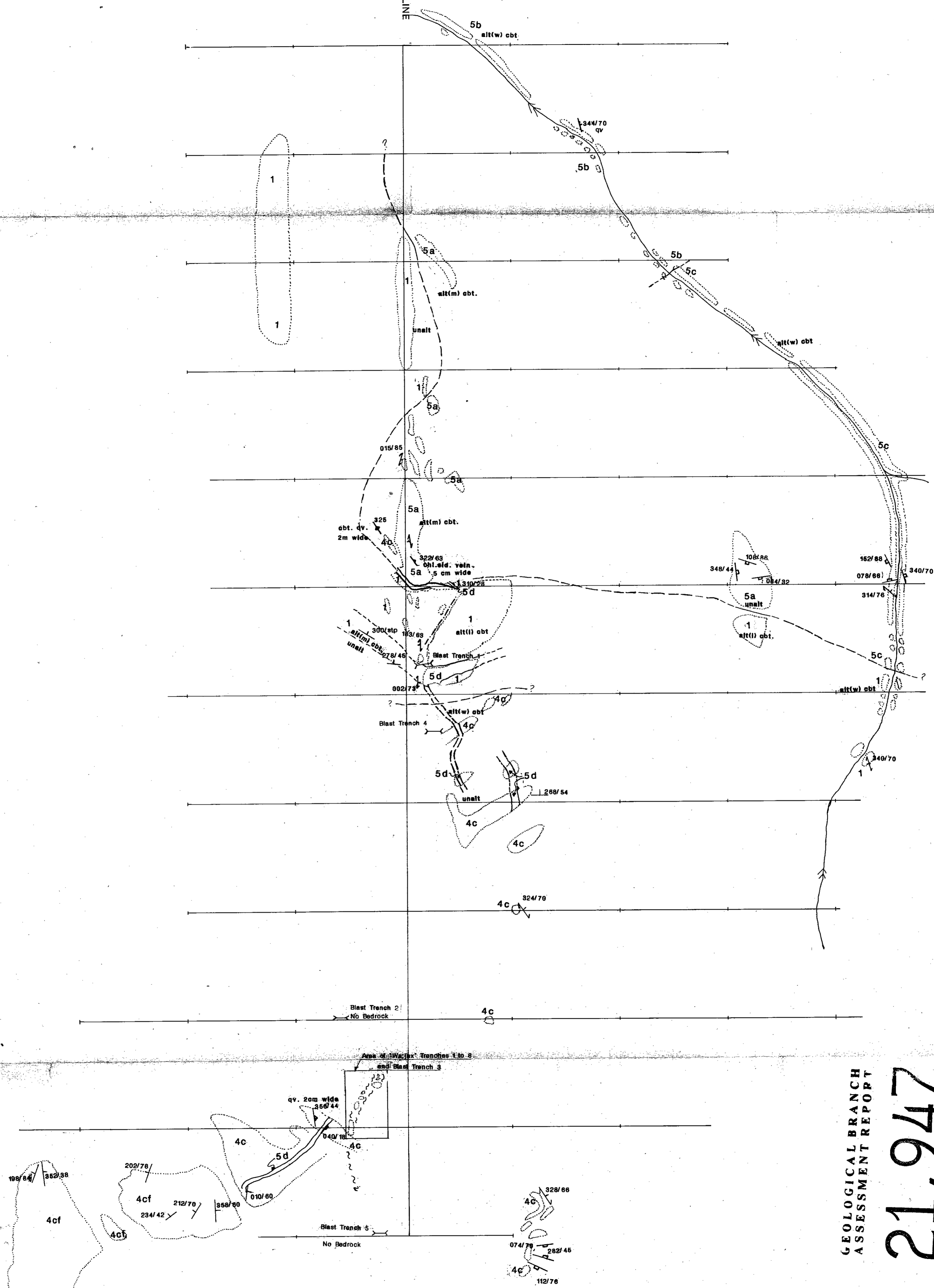
ATLIM MINING DIVISION
 DATE OF GEOLOGICAL ASSESSMENT REPORT
 FILE CODE
 BRANCH

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300 W 200 W 100 W BASELINE 100 E 200 E 300 E 400 E



L 900 N
L 800 N
L 700 N
L 600 N
L 500 N
L 400 N
L 300 N
L 200 N
L 100 N
L 0
L 100 S
L 200 S



LEGEND

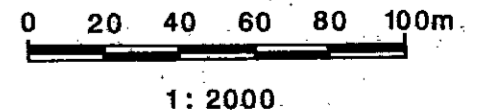
- MIOCENE
- 7 Level Mountain - plateau basalts
- TERTIARY - CRETACEOUS
- 6 Sike Group
 - a - feldspar porphyry
 - b - rhyolite dykes, stocks
- TRIASSIC - JURASSIC
- 5 Intermediate Intrusives
 - a - diorite
 - b - monzonite
 - c - monzonite
 - d - felsic-intermediate dyke
- PRE - UPPER TRIASSIC
- 4 Intermediate to Mafic Volcanics
 - a - augite porphyry
 - b - plagioclase porphyry
 - c - massive flows
 - d - lapilli tuff
 - e - chlorite schist
 - f - porphyroblastic mafic volcanics
- 3 Sediments
 - a - argillite
 - b - calcareous to graphitic argillite
 - c - limestone
- PERMIAN
- 2 Limestone
- 1 Ultramafic

ABBREVIATIONS

- alt Alteration
- obd Carbonate
- alt Chlorite
- qv Quartz Vein
- unalt Unaltered
- unalt Volcanic Intrusion

SYMBOLS

- BEDDING (INCLINED, VERTICAL)
- FOLIATION (INCLINED, VERTICAL)
- GEOLOGICAL CONTACT (KNOWN, ASSUMED)
- JOINT (INCLINED, VERTICAL)
- LIMIT OF OUTCROP
- STREAM WITH FLOW DIRECTION
- TRENCH
- VEINS (INCLINED, VERTICAL)



1: 2000

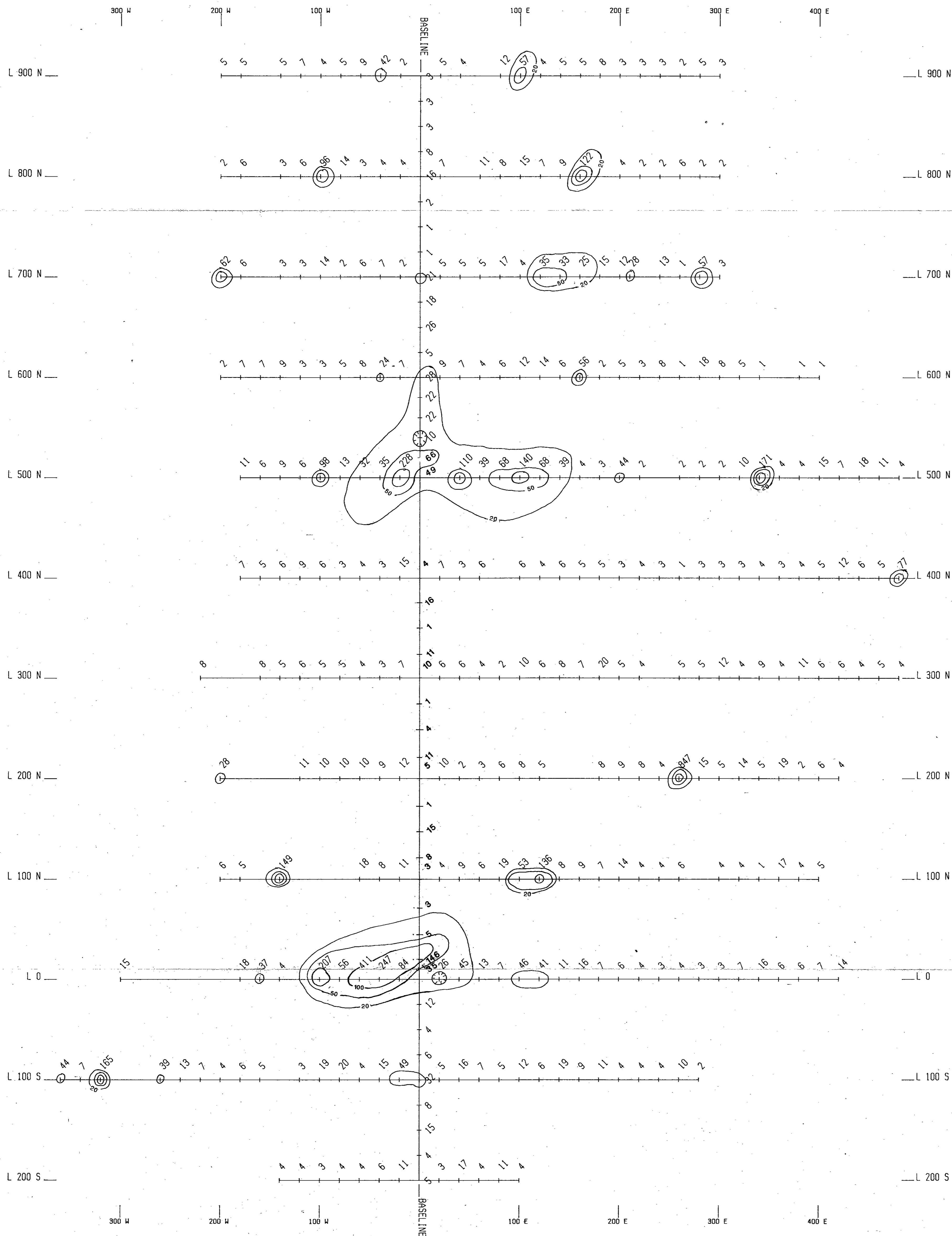
GEOLOGICAL BRANCH ASSESSMENT REPORT

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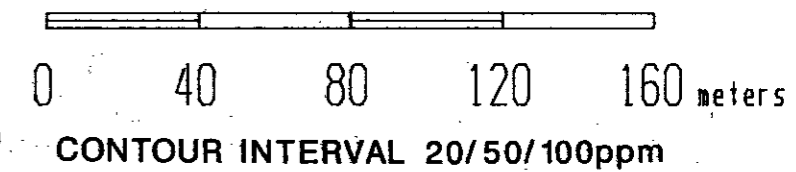
NORTH AMERICAN METALS CORPORATION
 MISTY NIE PROPERTY, B.C.
 ULTRAMAFIC GRID
 GEOLOGY

ATLIN MINING DIVISION

DRAWN DBM	DATE OCT 91	FILE CODE 104K/8	FIGURE 6a
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SCALE 1:2000



NORTH AMERICAN METALS CORP.
 MISTY NIE PROPERTY
 ULTRAMAFIC GRID
 Au (ppb)
 CONTOURED SOILS

To accompany a report by: BACT 00000

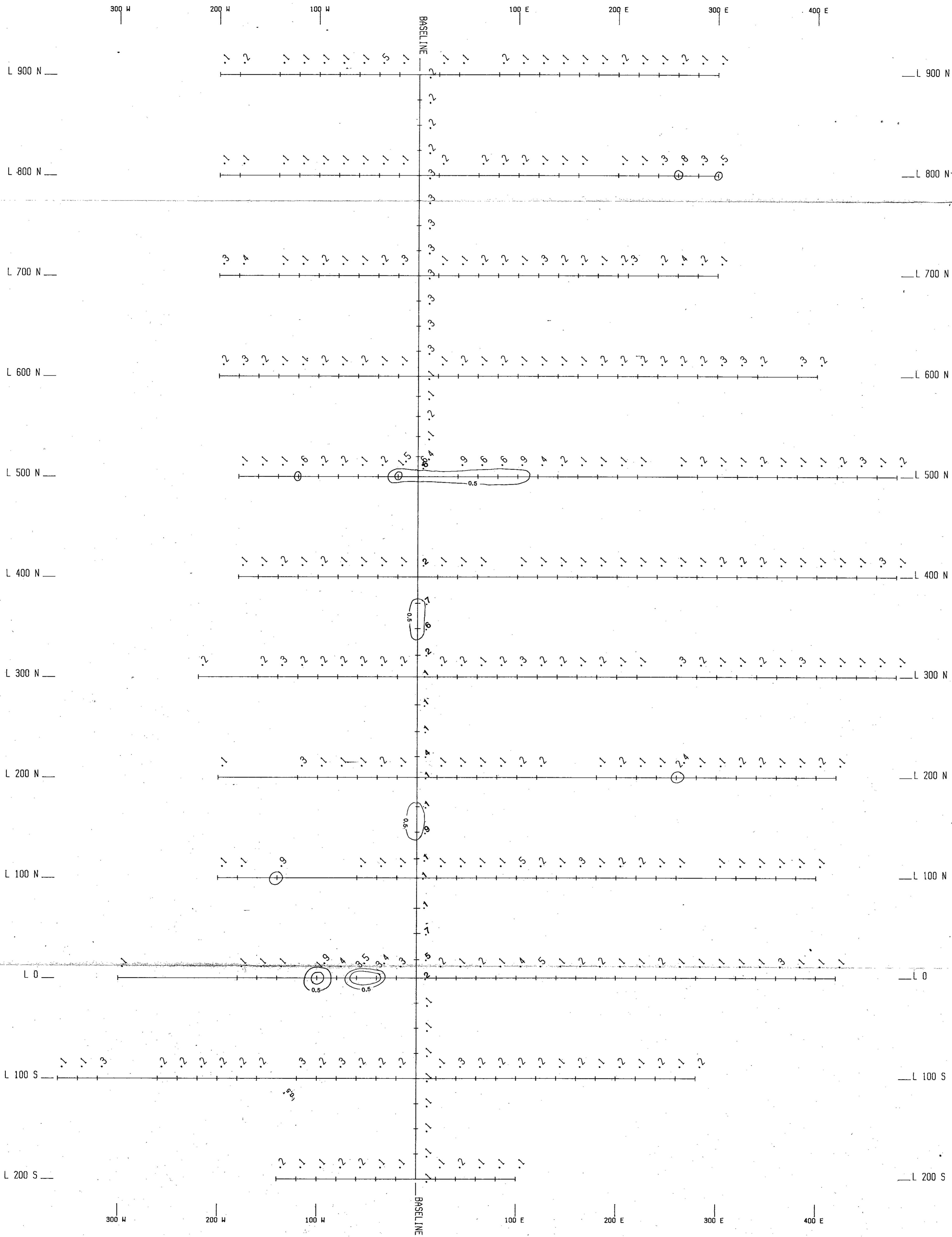
Project No:	Report No:
Mining Div: Atlan	A.L.S.: 104k/8
Date: 08/91	Map No: FIGURE 6f
QUEST CANADA EXPLORATION SERVICES INC.	

REVISIONS

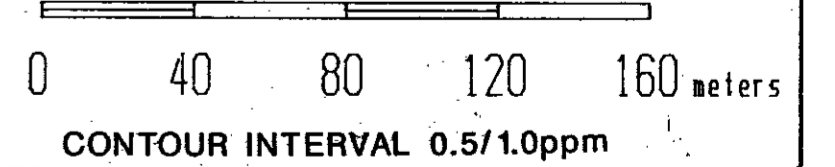
By	Date	Apprv. By

GEOLOGICAL BRANCH
 ASSESSMENT REPORT

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SCALE 1:2000



CONTOUR INTERVAL 0.5/1.0ppm

NORTH AMERICAN METALS CORP.
 MISTY NIE PROPERTY
 ULTRAMAFIC GRID
 Ag (ppm)
 CONTOURED SOILS

To accompany a report by: 00001 00000

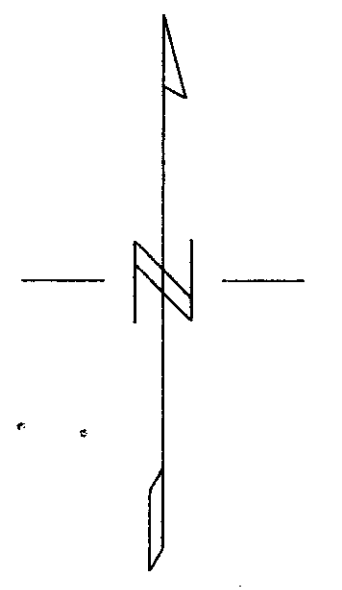
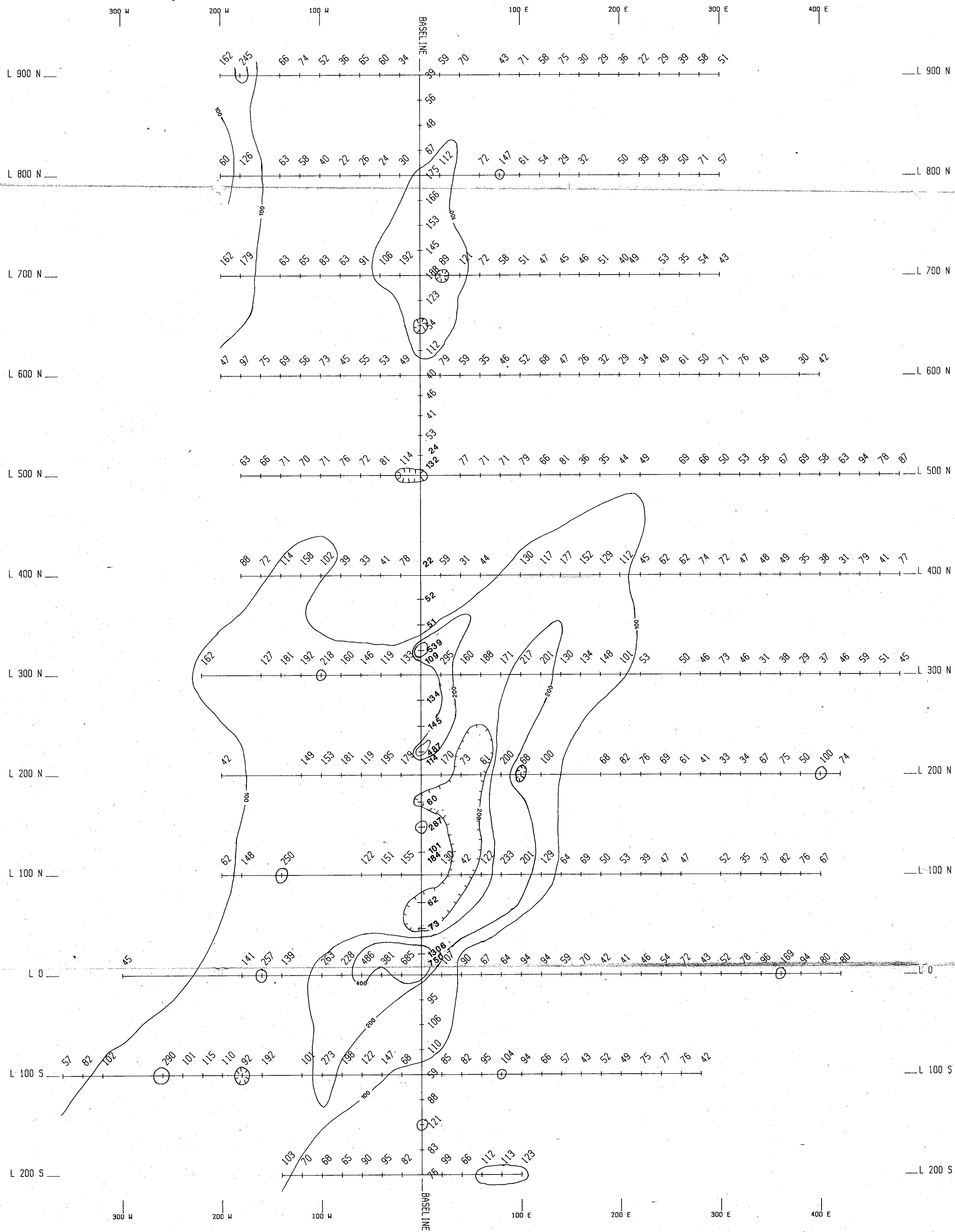
Project No:	Report No:
Mining Dist: Atlan	N.T.S.: 104K/8
Date: 08/91	Fig No: FIGURE 6g
QUEST CANADA EXPLORATION SERVICES INC.	

REVISIONS

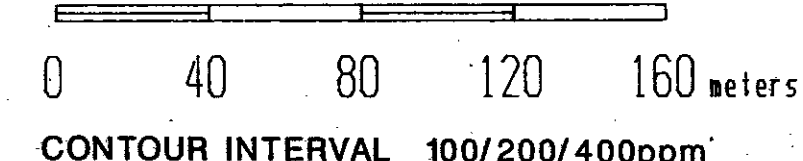
By	Date	Approv. By

GEOLOGICAL BRANCH
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SCALE 1:2000



CONTOUR INTERVAL 100/200/400ppm

NORTH AMERICAN METALS CORP.
MISTY NIE PROPERTY
ULTRAMAFIC GRID
Cu (ppm)
CONTOURED SOILS

To accompany a report by: DRCT 0000

Project No:	Report No:
Drawing No: Atlan	D.T.S.: 104k/8
Date: 08/91	Map No: FIGURE 0n

QUEST CANADA EXPLORATION SERVICES INC.

REVISIONS

By	Date	Appov. By

GEOLOGICAL BRANCH
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3827
3828
3591

3706
3705
3704
3703
3702

3664
3665

3667
3666

TRENCH 3-1-1
-1-2
-1-3

3662
3663

3661

3691
3693
3692

3694

3698
3697
3696
3695

3700
3699

3701

+

+

+

+

+

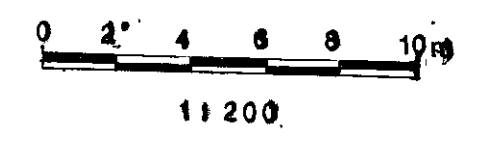
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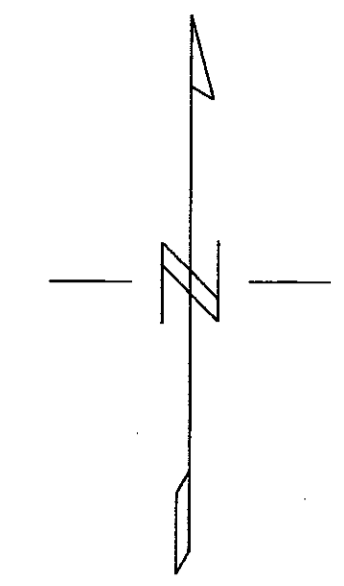
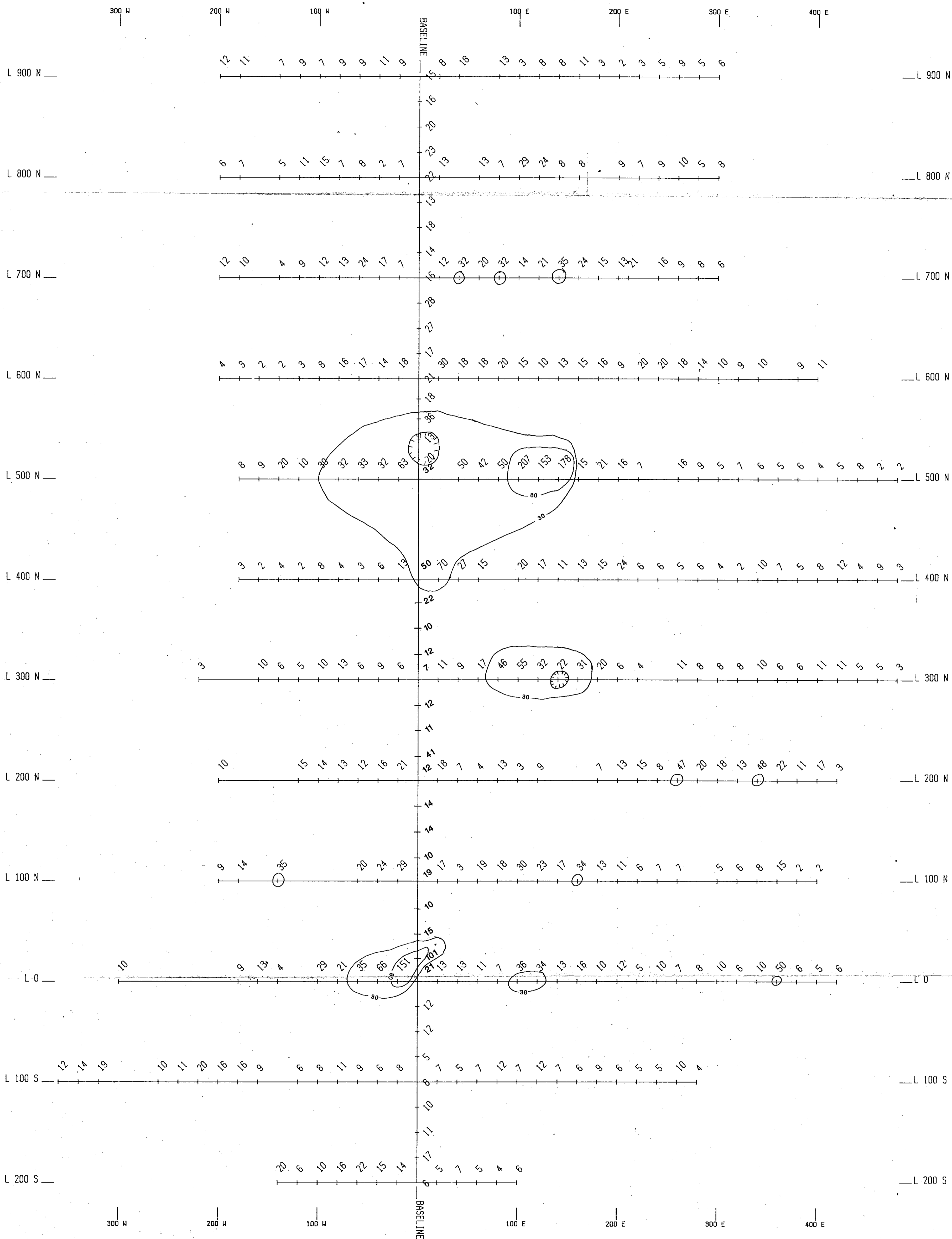
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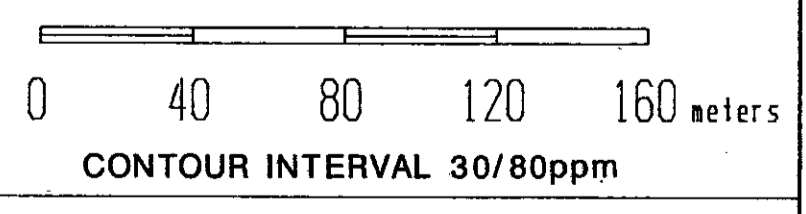
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NORTH AMERICAN METALS CORPORATION			
MISTY NIE PROPERTY			
TRENCH MAP			
SAMPLE LOCATION OVERLAY			
ATLIN MINING DIVISION			
Drawn DBM	Date OCT 91	File Code 104/K8	FIGURE 6d
Revised			



SCALE 1:2000



NORTH AMERICAN METALS CORP.
MISTY NIE PROPERTY
ULTRAMAFIC GRID
As (ppm)
CONTOURED SOILS

To accompany a report by: DIRECT 88888

Project No:	Report No:
Mining Div: Atlan	S.T.S.: 104K/8
Date: 08/91	Map No: FIGURE 6J

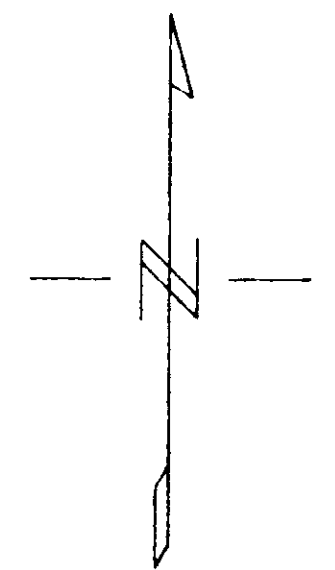
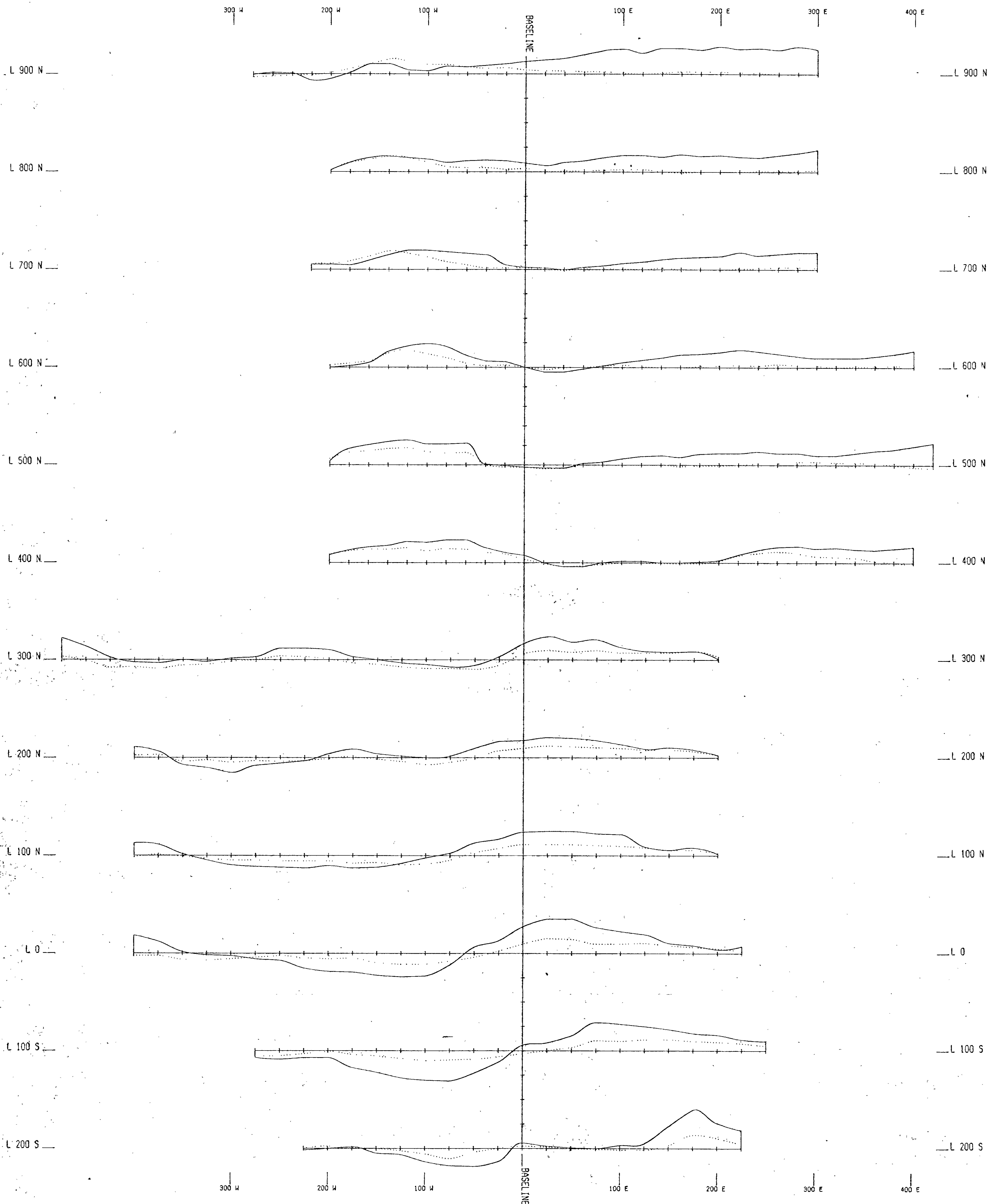
QUEST CANADA EXPLORATION SERVICES INC.

REVISIONS

By	Date	Approv. By

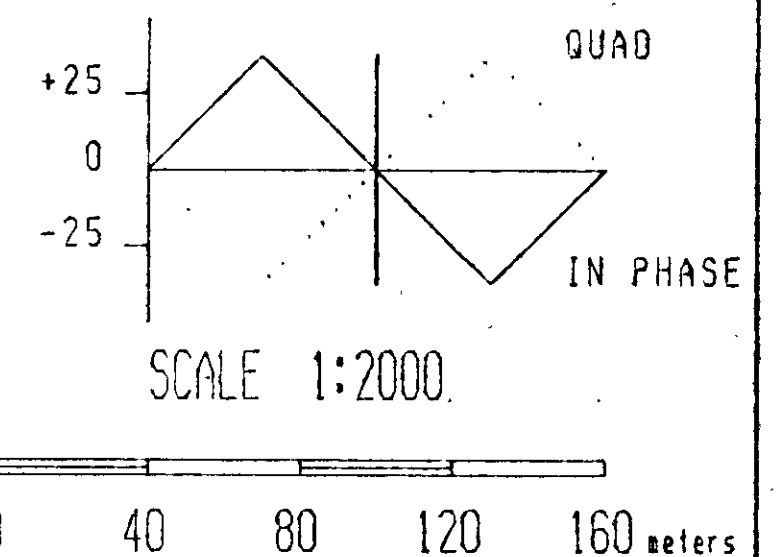
GEOLOGICAL BRANCH
ASSESSMENT REPORT

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ASSESSMENT REPORT

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REVISIONS

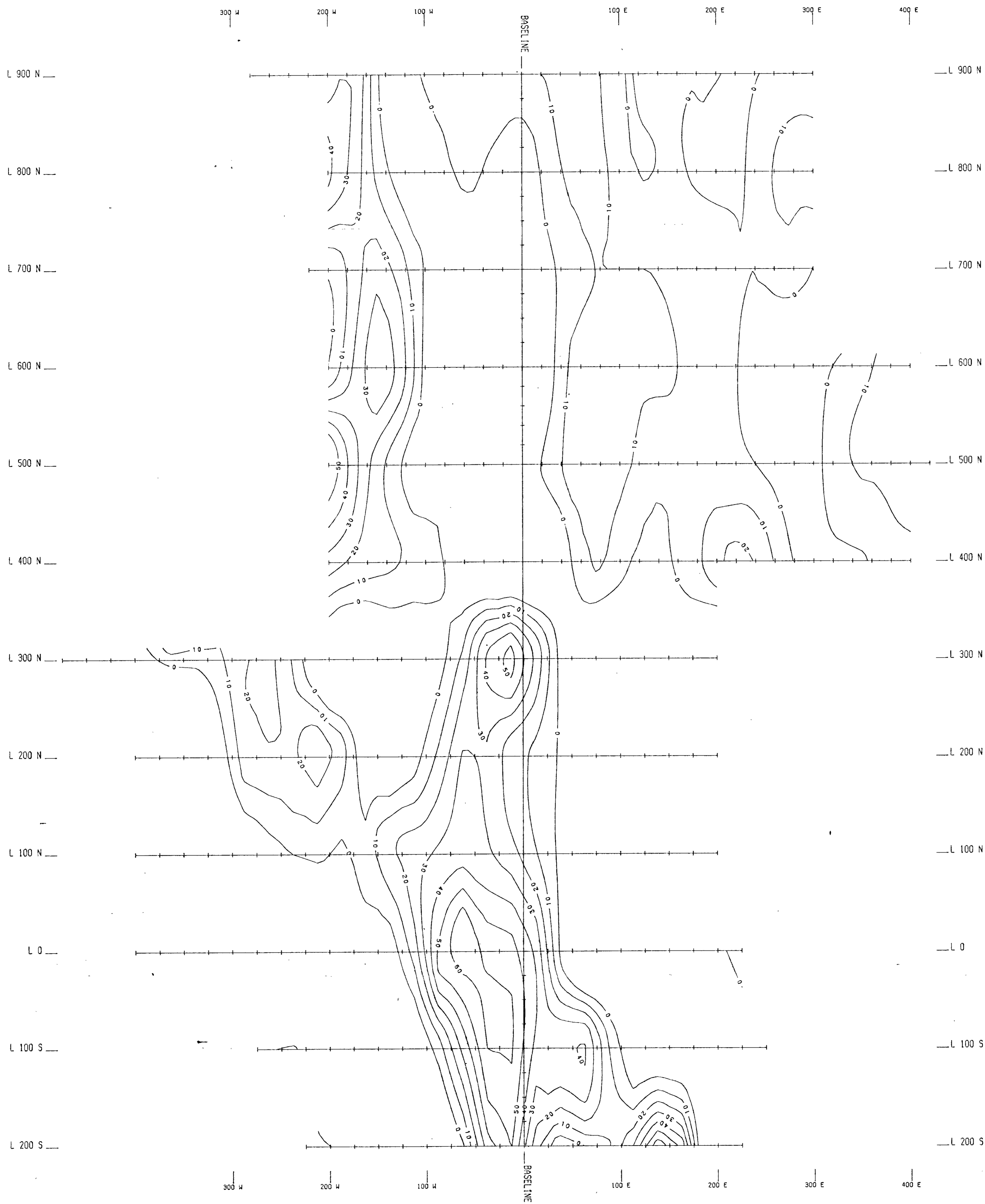
By	Date	Approv. By

NORTH AMERICAN METALS CORP.
MISTY NIE PROPERTY
ULTRAMAFIC GRID
HAWAII (23.4kHz)
VLF - EM PROFILE MAP

To accompany a report by: 10000-0000

Project No:	Report No:
Drawing No: A11an	P.L.S.: 104K/8
Date: 09/91	Fig No: FIGURE 6B

QUEST-CANADA EXPLORATION SERVICES INC.



INSTRUMENT : IGS - 2 VLF

CONTOUR INTERVAL : 10

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,947
SCALE 1:2000

0 40 80 120 160 meters

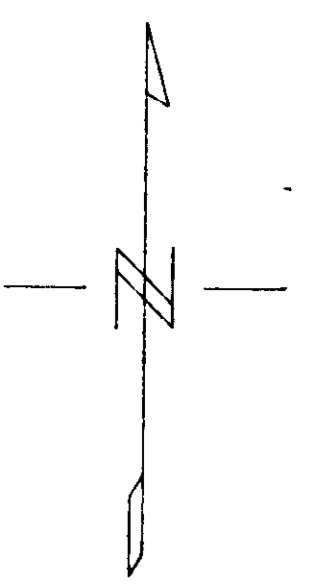
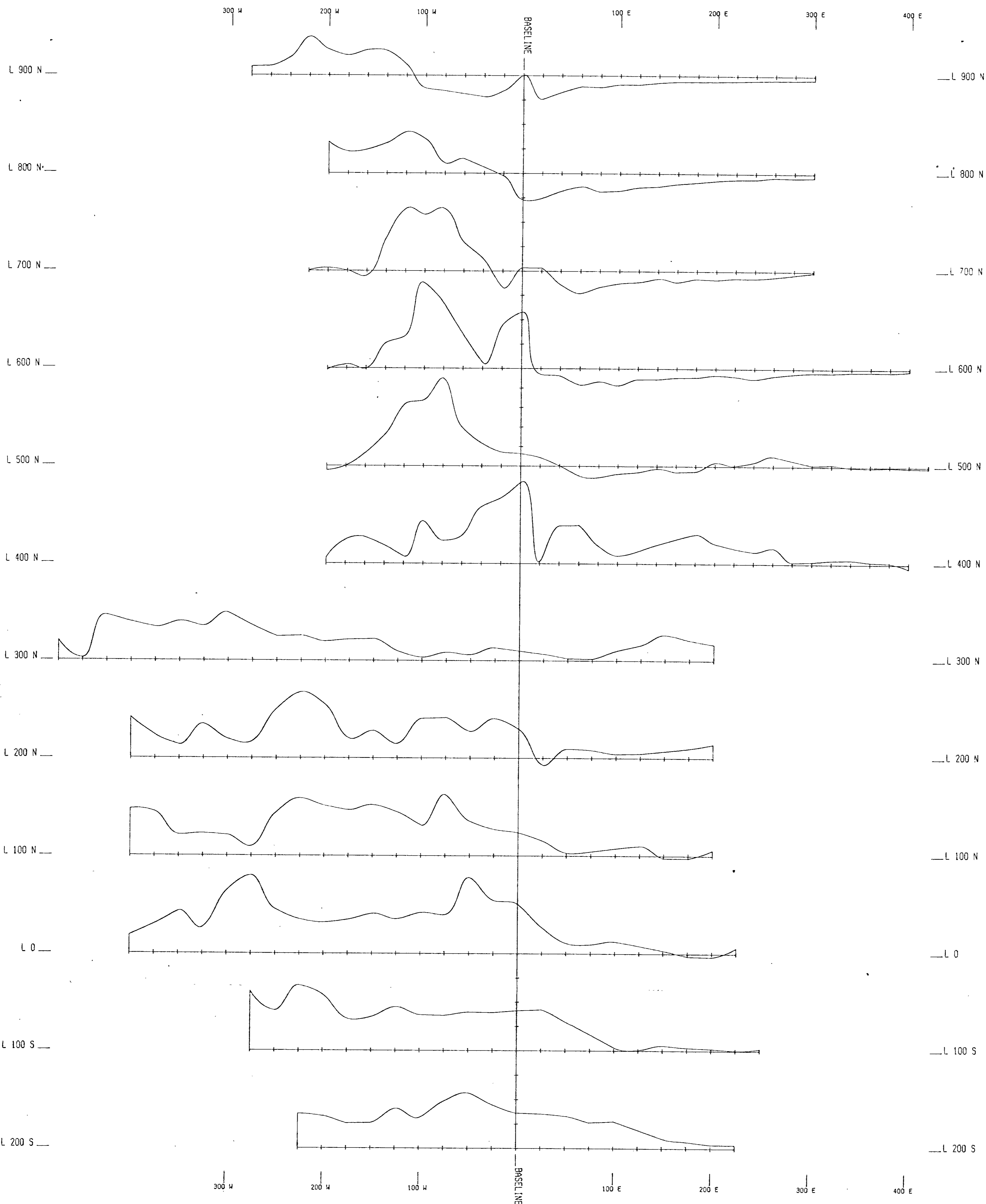
NORTH AMERICAN METALS CORP.
MISTY NIE PROPERTY
HAWAII (23.4kHz)
VLF - EM
CONTOUR MAP
ULTRAMAFIC GRID

In accompany a report by : 11881 11111

Project No:	Report No:
Working Title: Ailan	104K/8
Date: 09/91	Fig No: FIGURE 6m
QUEST CANADA EXPLORATION SERVICES INC.	

REVISIONS

By	Date	Approv. By



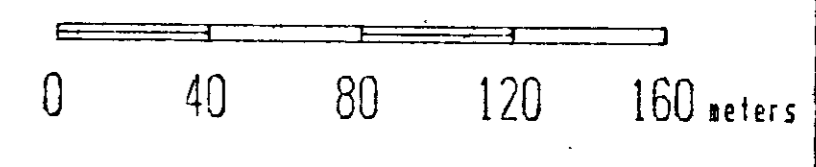
INSTRUMENT : IGS - 2 MAG

PROFILE SCALE : 1cm = 1000nt

LINE TRACE : 57500nt

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,947
SCALE 1:2000-

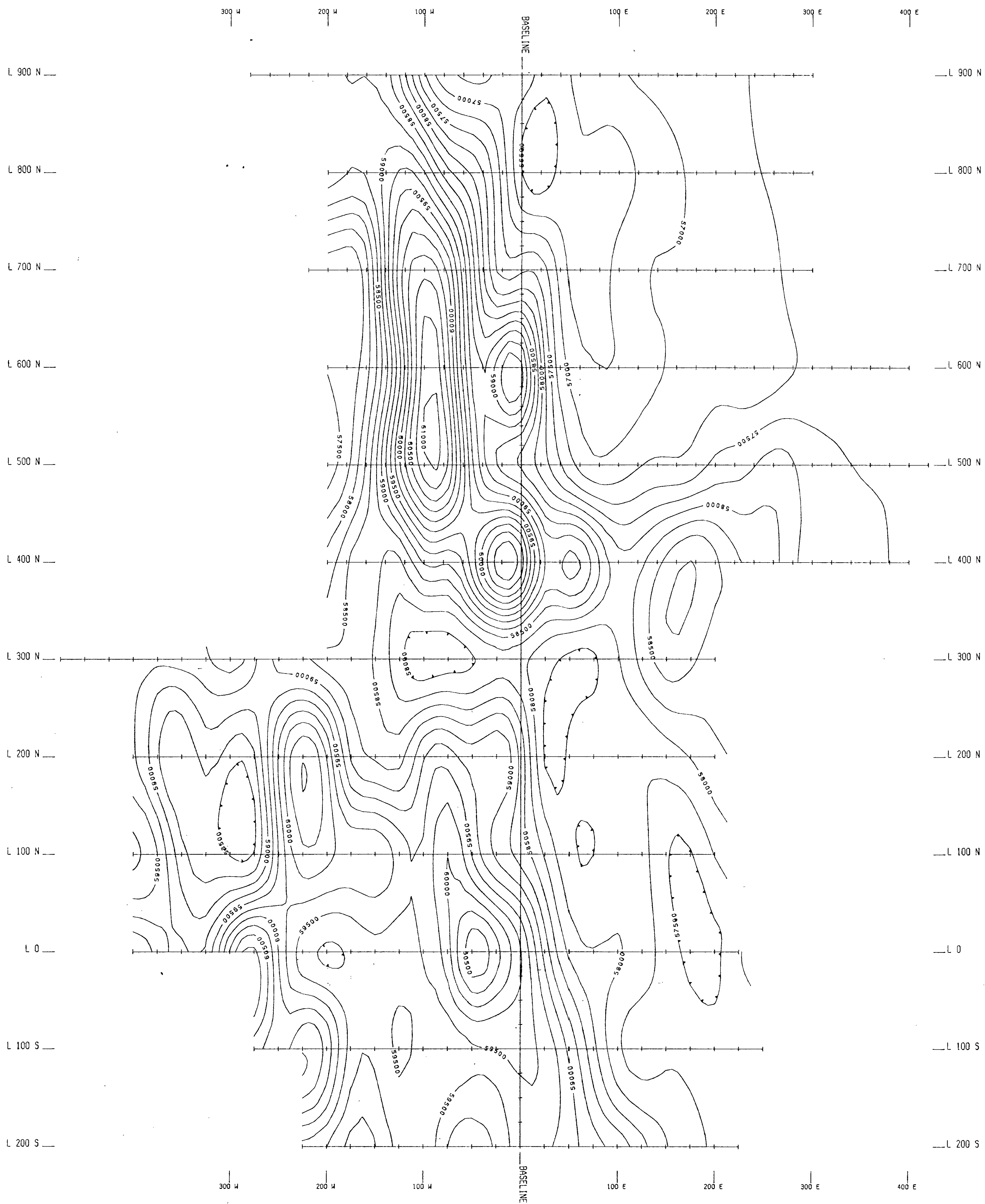


NORTH AMERICAN METALS CORP.
MISTY NIE PROPERTY
ULTRAMAFIC GRID
TOTAL FIELD MAG
PROFILE MAP

REVISIONS

By	Date	Appov. By

In accompany a report by : 00001 00000	
Project No:	Report No:
Drawing No: A11an	FIG. NO: 104K/8
Date: 09/91	Fig. No: FIGURE 6a
QUEST CANADA EXPLORATION SERVICES INC.	

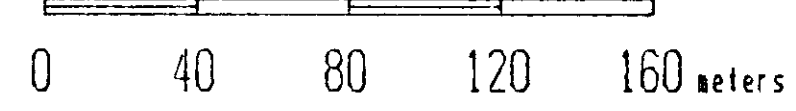


INSTRUMENT : IGS - 2 MAG

CONTOUR INTERVAL : 250nt

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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SCALE 1:2000



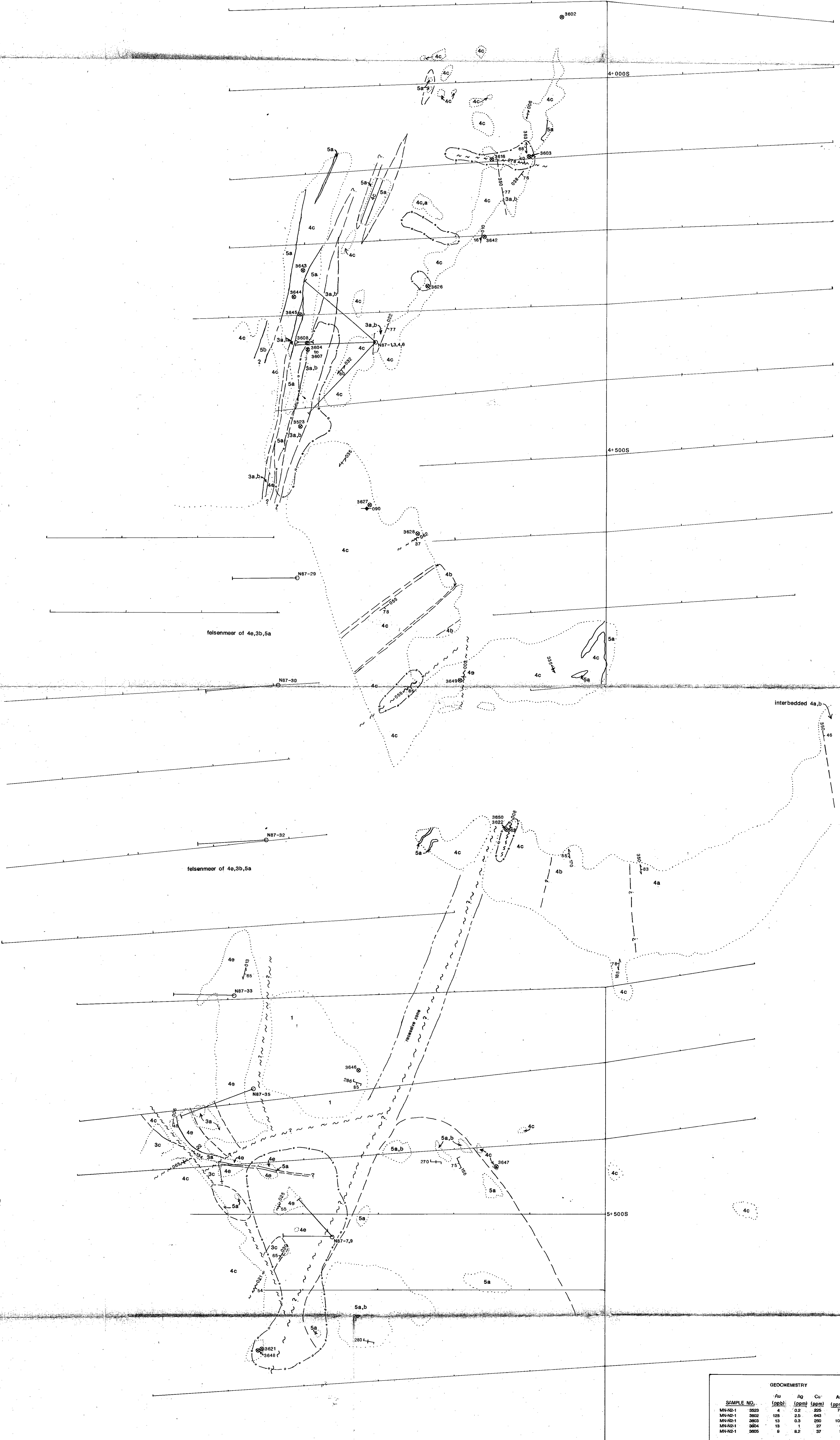
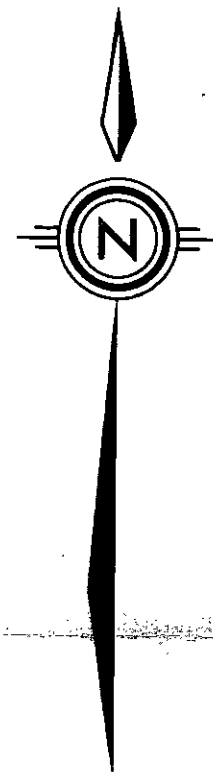
NORTH AMERICAN METALS CORP.
MISTY NIE PROPERTY
ULTRAMAFIC GRID
TOTAL FIELD MAG
CONTOUR MAP

In accompanying report by : 00001 00001
Project No: Report No:
Drawing No: Allan K.T.S.: 104X/B
Date: 09/91 Day No: FIGURE 8a
QUEST CANADA EXPLORATION SERVICES INC.

REVISIONS

By	Date	Approv. By

7+00W 6+00W 5+00W 4+00W 3+00W 2+00W 1+00W BASELINE 1+00E 2+00E 3+00E



LEGEND

- MIOCENE
- 7 Level Mountain - plateau basalts
- TERTIARY - CRETACEOUS
- 6 Sloka Group
 - a - felspar porphyry
 - b - rhyolite dykes, stocks
- TRIASSIC - JURASSIC
- 5 Intermediate Intrusives
 - a - diorite
 - b - monzodiorite
 - c - monzonite
 - d - felsic-intermediate dyke
- PRE - UPPER TRIASSIC
- 4 Intermediate to Mafic Volcanics
 - a - augite porphyry
 - b - plagioclase porphyry
 - c - massive flows
 - d - lapilli tuff
 - e - chlorite schist
 - f - porphyroblastic mafic volcanics
- 3 Sediments
 - a - argillite
 - b - calcareous to graphitic argillite
 - c - limestone
- PERMIAN
- 2 Limestone
- 1 Ultramafic

SYMBOLS

- geologic contact (defined, assumed)
- topographic feature
- outcrop
- zone of alteration
- /// bedding (inclined, vertical)
- fault (defined, assumed, inclined, vertical)
- joint (inclined, vertical)
- vein (inclined, vertical)
- foliation (inclined, vertical)
- rock sample location
- diamond drill hole

GEOLOGICAL BRANCH ASSESSMENT REPORT

21,947
1:2000
0 50 100
meters

GEOCHEMISTRY					
SAMPLE NO.	Au (ppb)	Ag (ppb)	Cu (ppm)	As (ppm)	
MNND-1 3523	4	0.2	255	78	
MNND-1 3602	195	2.5	643	6	
MNND-1 3603	13	0.3	292	103	
MNND-1 3604	13	1	27	6	
MNND-1 3605	6	0.2	37	5	
MNND-1 3606	13	0.4	78	23	
MNND-1 3607	21	0.4	182	29	
MNND-1 3608	26	0.4	106	42	
MNND-1 3610	17	0.2	59	39	
MNND-1 3621	6	0.3	40	14	
MNND-1 3622	6	1.5	109	13	
MNND-1 3626	3	0.2	67	13	
MNND-1 3627	3	0.5	32	892	
MNND-1 3628	22	0.5	289	26	
MNND-1 3642	1	0.2	191	30	
MNND-1 3643	41	3.1	107	5	
MNND-1 3644	71	1	514	37	
MNND-1 3645	9	0.5	325	49	
MNND-1 3646	10	0.2	25	367	
MNND-1 3647	6	0.3	120	16	
MNND-1 3648	7	0.3	59	26	
MNND-1 3649	7	5.2	310	16	
MNND-1 3650	7	4.9	46	17	

NORTH AMERICAN METALS CORP.
MISTY HILL PROPERTY, B.C.
TWO OUNCE NOTCH ZONE
GEOLOGY AND GEOCHEMISTRY
ATLIN MINING DIVISION
DRAWN DATE FILE CODE
OCT/91 104K/8 Figure 7