

**LIMESTONE CREEK FAULT
DIAMOND DRILLING
ASSESSMENT REPORT**

LOT 7176 (Tenure #344928)

**ATLIN MINING DIVISION
NTS 104K/1W**

Latitude: 58°14'00"N
Longitude: 132°18'00"W

Owned and Operated by:

NORTH AMERICAN METALS CORP.
1500-700 West Pender Street
Vancouver, B.C.

Andrew P. Hamilton, B.Sc.

December 1997

Field Work Completed
July 5 - July 21, 1997

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SUMMARY

The Limestone Creek Fault Zone is a gold prospect that occurs on the Golden Bear Mine property in northwestern British Columbia. During the 1997 field season North American Metals Corp. carried out a diamond drilling program to test the zone downdip from the mineralized intersection obtained from a 1996 drillhole. Two HQ diameter holes totalling 311.49 metres were drilled.

The zone occurs in a northwesterly trending, westerly dipping fault zone that forms the contact between Stikine Assemblage quartzites and epiclastic rocks to the west and Permian carbonate rocks to the east. Gold mineralization encountered in earlier drilling occurs in a very strongly altered volcanic fault sliver or dyke within the fault zone.

The 1997 drillholes into the Limestone Creek Fault Zone failed to return significant gold values. Holes drilled to the north, south and now downdip of the 1996 mineralized intersection effectively close off the potential for an economic gold deposit along this portion of the fault. As such no further work is recommended for this area.

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1.0 INTRODUCTION

The Limestone Creek Fault Zone is a recently discovered gold prospect that occurs on the Golden Bear Mine property. It is located roughly four kilometres northwest of the Bear Main deposit which was mined from both underground and open pit workings between startup in 1989 and June 1994, producing 6,781,698 grams of gold from 535,277 tonnes of ore. The project is 100% owned by North American Metals Corp (NAMC), an 82% owned subsidiary of Wheaton River Minerals Ltd.

2.0 SCOPE OF REPORT

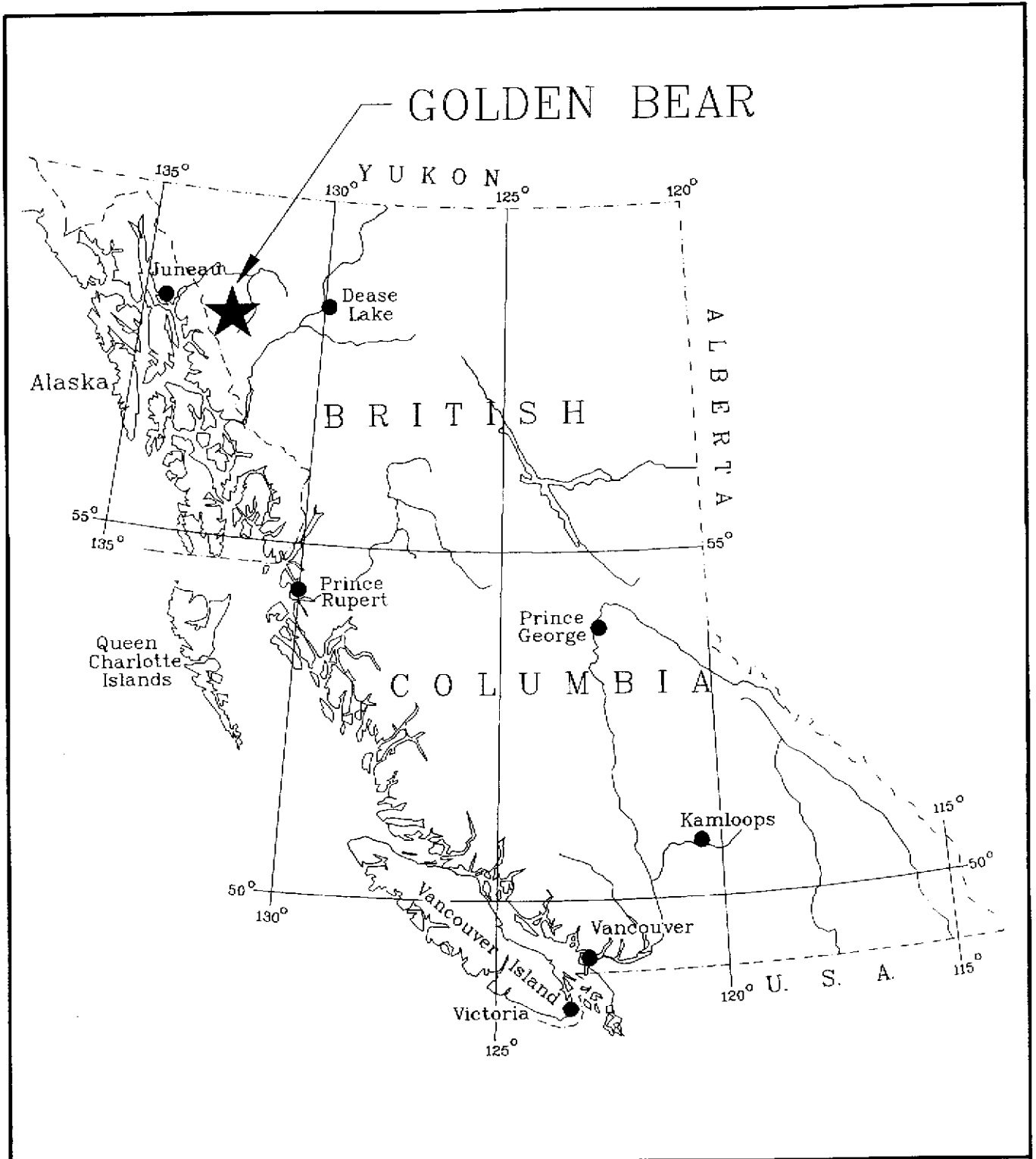
This report serves to present the results of the exploration program carried out on the Limestone Creek Fault Zone in 1997. Work completed during the field season consisted of 311.49 metres of diamond drilling in 2 HQ holes.

3.0 LOCATION, ACCESS AND PHYSIOGRAPHY

The Limestone Creek Fault Zone is located on the Golden Bear Mine property in northwestern British Columbia. The project is in the Atlin Mining Division near 132°17' west and 58°13' north. The project area occurs on the Tulsequah (104K) and Bearskin Lake (104K/1) mapsheets. The town of Dease Lake lies 140 kilometres to the east and Juneau, Alaska is 100 kilometres to the west (see Figure 1).

The mine property lies within moderately rugged terrain on the eastern side of the Chechidla Range of the Coast Mountains, where elevations range from 600 to 2200 metres. Treeline is at roughly 1100 metre elevation with little or no vegetation other than grass occurring above this point. Lower slopes are forested with dense spruce, pine and alder. Glaciers and permanent snow are present but not abundant, however snow melts slowly on western and northern facing slopes where surface exploration can only be effectively conducted between July and mid-September.

Access to the Golden Bear property can be gained by two wheel drive road, fixed wing aircraft or helicopter. Access by road is gained by public road for 80 kilometres west from Dease Lake and then by an all-weather private access road extending 155 kilometres northwest from near Telegraph Creek. A 1500 metre gravel airstrip is present at the minesite to accommodate small fixed wing aircraft. Contract helicopter service is available based out of Dease Lake. For safety reasons use of both the mine access road and the airstrip is restricted. Once at the minesite the property can be accessed by a number of all weather gravel and four-wheel drive exploration roads.



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GOLDEN BEAR

LOCATION MAP

N.T.S.: 104 K | Figure: 1

4.0 LAND TENURE

The Golden Bear Mine property consists of a total of 31,136.13 hectares of contiguous mineral claims and mining leases as shown on Figure 2. The Limestone Creek Fault Zone is covered by Lot 7176 (Tenure # 344928), a mining lease which covers 419.0 hectares (see Figure 3). The lease has a primary term of 30 years and is subject to an annual rental fee.

5.0 EXPLORATION HISTORY

The ground covered by Lot 7176 was originally covered by the Totem 2 mineral claim, staked in 1982 by Chevron Canada Minerals Ltd. during the original staking over the Bear Main deposit. Between 1982 and 1985 Chevron carried out 1:5000 scale mapping and prospecting over the area. Additional mapping at 1:5000 was performed by J. Oliver in 1988 and 1989 as part of his PhD project on the Tatsamenie Lake area (Oliver and Hodgson, 1989, 1990).

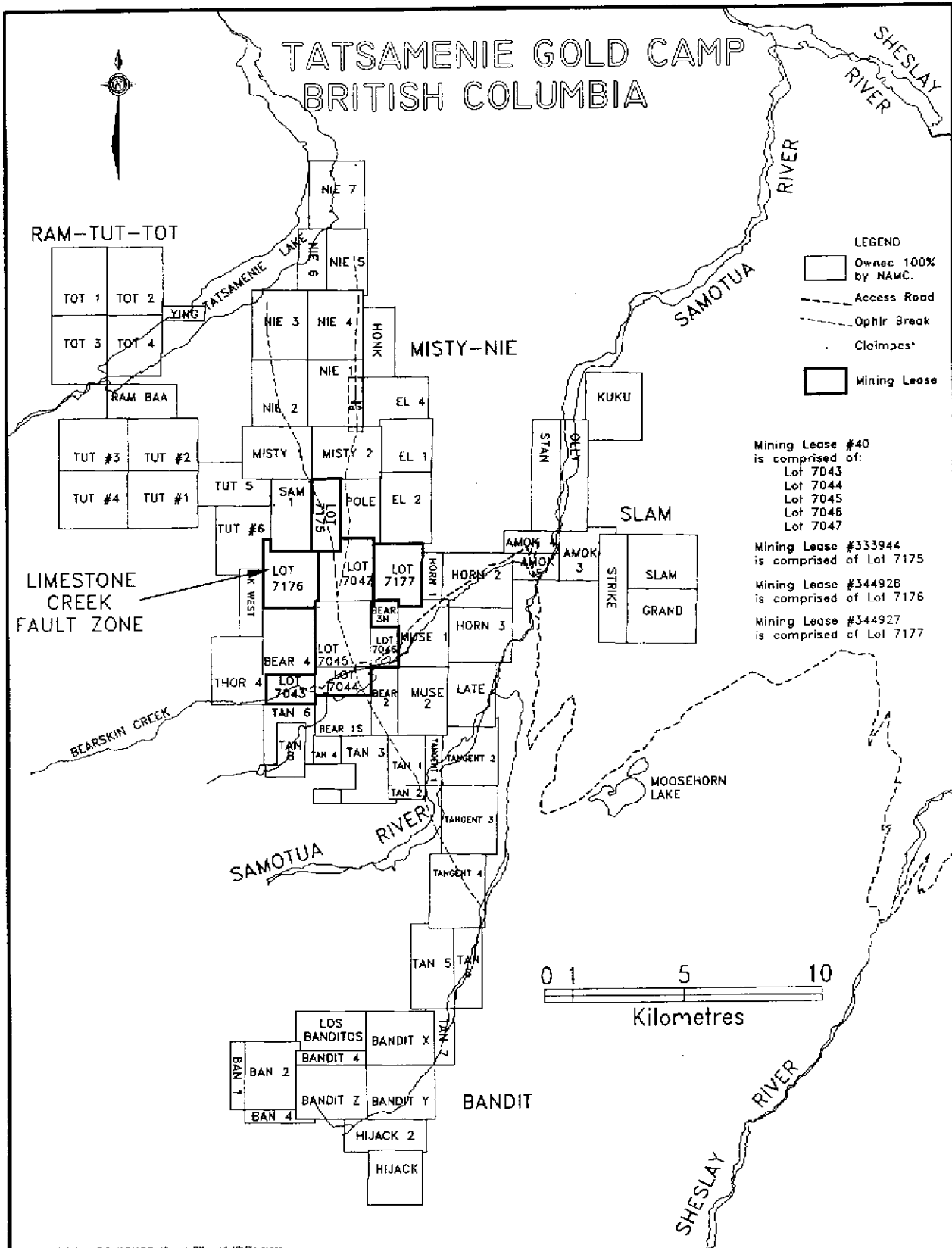
The Limestone Creek Fault area did not see any further exploration work until 1995 when NAMC, encouraged by the discovery of the Kodiak A and Ursa deposits, covered much of the property with a soil geochemistry grid and prospecting traverses. This work outlined a coincident arsenic, antimony and mercury anomaly coincident with the fault. A conductor was also detected to be coincident with the fault by a HLEM survey run over the area during the same field season.

Based on the geochemical and geophysical results NAMC drilled 5 HQ and NQ drillholes into the Limestone Creek Fault Zone in 1996. The first hole intersected a strongly altered volcanic, either a fault sliver or a dyke within the fault, that returned a value of 7.93 g/t gold over 4.57 metres. Two holes drilled 100 metres to the north and south, respectively, failed to return any significant gold values. Two attempts to drill 40 meters beneath the mineralized intersection failed due to extremely broken ground conditions.

6.0 REGIONAL GEOLOGY

Regional stratigraphy and structure for the area was first described by Souther (1971) and more recently by Oliver (Oliver and Hodgson, 1989, 1990) and Bradford and Brown (1993a, 1993b). Detailed property geology has been reported by Pigage (1994) and Cooley (1996), and economic mineralization for selected mineral occurrences has been reported by Schroeter (1985, 1986, 1987). The following description of the regional geology is summarized from these authors.

The Limestone Creek Fault Zone lies within the Intermontaine belt where the lowermost stratigraphic sequence exposed consists of the Stikine Assemblage. The Assemblage consists of a sequence of foliated metavolcanic rocks



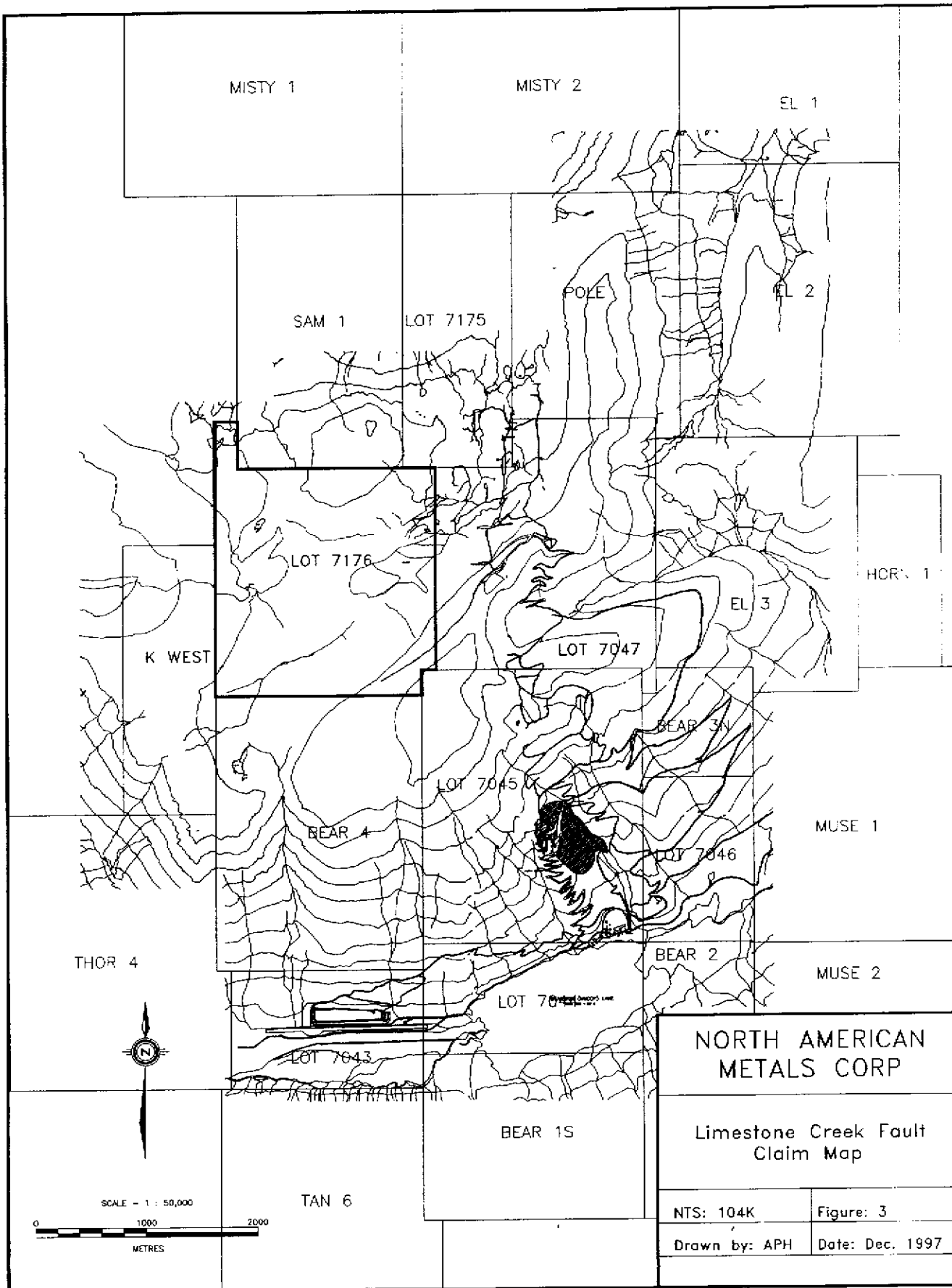
NORTH AMERICAN METALS CORP.

GOLDEN BEAR
PROPERTY

CLAIM MAP

N.T.S.: 104 K

Figure 2



dominated by andesitic ash to lapilli tuffs, feldspar and augite phyric tuffs and flows. Minor grey limestone interbeds up to 25 metres in thickness occur throughout the sequence. Lesser argillite and conglomerate also occur as interbeds. The age of the Stikine Assemblage is poorly constrained, however recent zircon dates by Oliver and Gabites (1993) of felsic volcanics in the package indicate ages as old as Pennsylvanian (316 Ma).

A thick, fossiliferous Permian limestone unit forms a distinctive marker within the Stikine Assemblage. The unit ranges from massive to thin bedded, includes both calcitic and dolomitic end members, and has been estimated to be in excess of 200 metres in thickness (McBean and Reddy, 1993). Poorly preserved fusulinids and rugosan corals confirm an early Permian date for the unit (Souther, 1971). Detailed mapping by several geologists has further refined the internal stratigraphy of the Permian limestone unit (McBean and Reddy, 1993; Jaworski and Reddy, 1993; Pigage, 1994; Cooley, 1996).

Unconformably overlying the Stikine Assemblage is a thick package of volcanic and sedimentary rocks comprising the Upper Triassic Stuhini Group. The group consists mainly of red-brown weathering, plagioclase and augite bearing volcanoclastic rocks with lesser pillow basalts, epiclastic rocks and quartzites. The Stuhini Group rocks are typically much less deformed than those of the Stikine Assemblage with a pervasive chloritic foliation typically only developed near major shear zones.

The Stuhini Group is unconformably overlain by subhorizontal, columnar jointed basalts of the Miocene Level Mountain Group (Souther, 1971).

Most of the intrusive rocks in the immediate Bearskin Lake area consist of compositionally heterogeneous, variably foliated hornblende diorite to quartz monzodiorite. These rocks, dated to the late Triassic, intrude both Stikine Assemblage and Stuhini Group rocks. The voluminous Eocene intrusions comprising the Coast Belt occur west of the Limestone Creek Fault area.

Structural interpretation of the Golden Bear Area is difficult because of the lack of stratigraphic control in the Stikine Assemblage rocks. The extensive foliation in the Stikine Assemblage rocks is consistent with at least one and perhaps two pre-Late Triassic phases of folding followed by an erosional interval before deposition of the Stuhini Group. D1 folds are tight to isoclinal and trend dominantly north-south. D2 folds trend either northeast or northwest. Folding interpreted as occurring during D3 and D4 deformation events are considered to be latest Triassic to Middle Jurassic events respectively.

Faulting is dominated by north and northwesterly trending, high angle strike slip faults. The Ophir Break is an economically important fault zone which extends for at least 20 kilometres, and provides the primary structural control for the Golden Bear property gold deposits. It is comprised of several anastomosing fault

strands across a width of 50 to 100 metres. Fault grooves and slickensides on Ophir Break structures have predominantly shallow plunges, however both Lehrman and Caddey (1989) and Oliver (1995) suggest that there has been recent right lateral reverse movement.

7.0 PROPERTY GEOLOGY

The geology of the Limestone Creek Fault area is dominated by rocks of both the Permian limestone unit (Stikine Assemblage) and the Stuhini Group. The fault zone, which strikes northwesterly and dips moderately to the west, juxtaposes Permian carbonates (east side) against Stuhini Group epiclastics and sediments (west side). Brief descriptions of pertinent units are given below:

DOCH - This is the only carbonate unit intersected to date in the footwall to the Limestone Creek Fault. It consists of thick bedded to massive, fine to medium grained pale tan to buff weathering, grey dolomite with *irregular chert beds and nodules*. The chert nodules range from light to dark gray in colour and weather in relief. Chert may constitute up to 40% the unit. This is a very widespread unit on the Golden Bear property, indicating that dolomitization was early (diagenetic?) and not related to alteration associated with mineralization.

QUARTZITE - *Massive to thinly bedded white to medium gray quartzite*. Locally may contain thin argillite or graphitic interbeds. Often contains drusy quartz lined cavities where high level hydrothermal fluids have infiltrated fracture zones.

MFEP - thinly bedded, very fine grained, dark green to brown epiclastic tuff. Where deformed there is development of phyllitic partings. May contain centimetre to decimetre scale quartz +/- feldspar sweets.

MFCA - hydrothermally altered mafic volcanic rocks. Light green to buff coloured on fresh surfaces, weathering to orange. Fine bedding feature are often preserved. May contain fine disseminated euhedral pyrite.

Large scale D1 and D2 folds have not been discernable in drill core. Numerous small scale folds of unknown orientation have been observed.

8.0 MINERALIZATION

The strongest mineralization detected to date in the Limestone Creek Fault Zone is hosted in a very strongly altered volcanic rock or dyke that lies within the fault zone. The mineralized material is an orangy red colour, is very soft, and completely oxidized. Anomalous to low grade gold values have been obtained from samples of both quartzite and MFEP in the hangingwall to the fault however the values are erratic and there is not any particular structural control that can be identified.

9.0 1997 WORK PROGRAM

The 1997 Limestone Creek work program was carried out between July 5 and July 21, 1997, and consisted of 2 HQ diameter drillholes totalling 311.49 metres. The purpose of the program was to test the down dip potential of the mineralized zone intersected in 1996.

The collar location and orientation of each drillhole was surveyed using mine grid coordinates. Depth down the drill hole is measured from the top of the casing. Down hole deviations were measured at regular intervals using a single-shot Sperry Sun instrument.

The drill core was logged for lithology, structure, assay and geotechnical information at the exploration trailer at the minesite camp using custom logging forms. All core was photographed prior to being split. The core is stored at the airstrip situated immediately west of the minesite camp. Requested intervals of core were assayed at the minesite lab by fire assay for gold only (see Appendix III for analytical procedures). Appendix IV contains the logging codes and conventions used for logging core on the project, along with the logs for each of the holes.

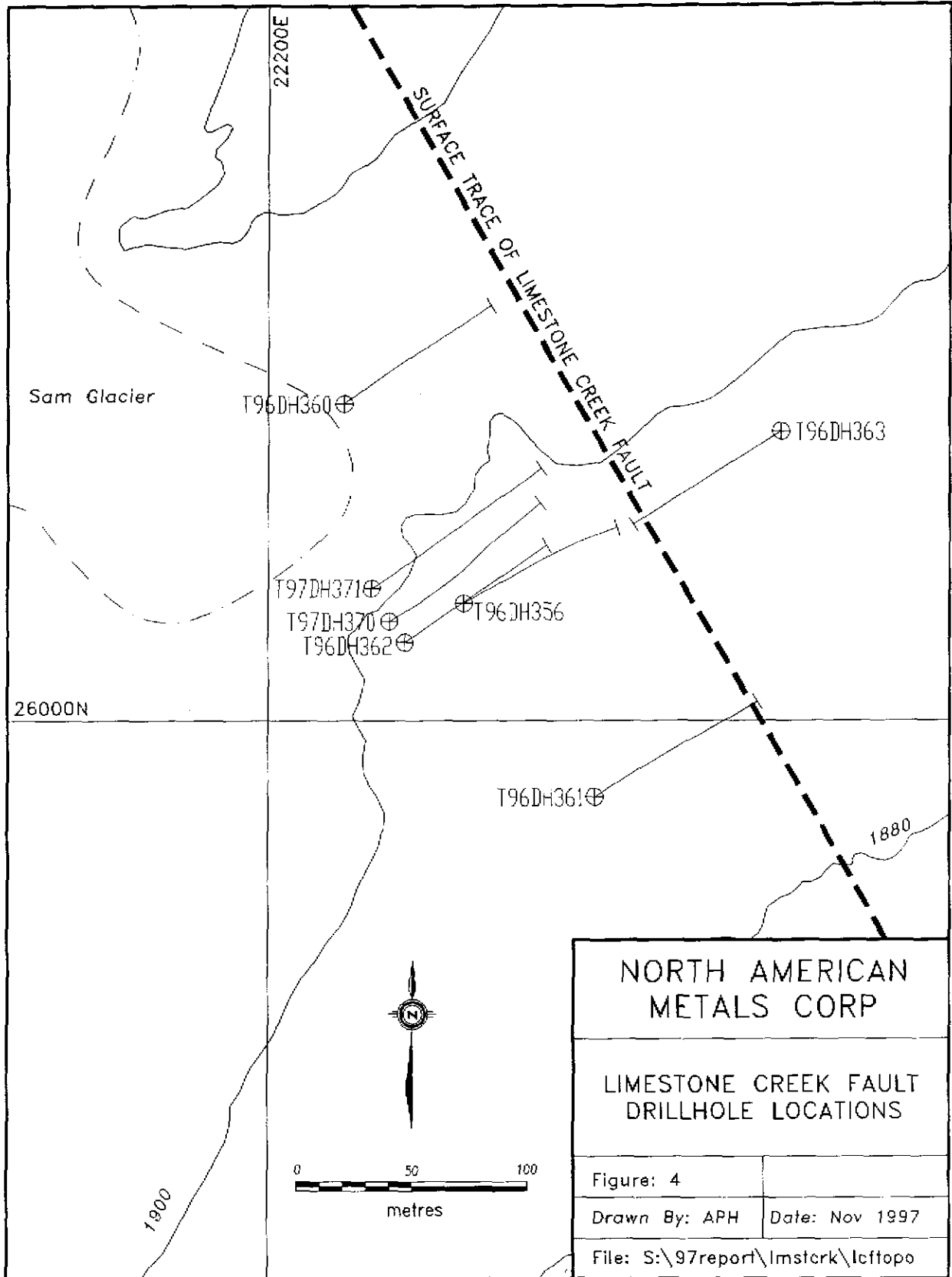
10.0 RESULTS

The location of the 1997 drillholes is shown with the 1996 drillholes on Figure 4. The downhole geology and assay results are shown on two vertical sections, Figures 5 and 6. Assay results are summarized in Table 1. Both holes were drilled on an azimuth of 060°, first passing through a sequence of interbedded quartzites and epiclastic rocks before entering the Limestone Creek Fault Zone.

| Drillhole | From (m) | To (m) | Au (g/t) | Length (m) |
|-----------|----------|-------------|----------|------------|
| T97DH370 | 32.96 | 33.43 | 2.13 | 0.47 |
| | 89.91 | 91.26 | 1.17 | 1.35 |
| | 141.57 | 142.33 | 1.10 | 0.76 |
| T97DH371 | no | significant | results | |

Table 1: 1997 Limestone Creek Diamond Drill Summary

As with the 1996 drilling, the 1997 drillholes encountered extremely broken ground when the holes reached the fault zone. T97DH370 had encountered carbonate rocks at its final depth of 149.33 metres when the hole was lost due to bad ground, however it had not reached its target depth, which had allowed for a projection of a near vertical fault system. As such it was uncertain as to whether or not the carbonate rocks in the core represented a large block within the fault zone, or the eastern side of the fault where carbonate rocks were expected. A second hole, T97DH371, was collared 25 metres to the north which did manage to get through the fault and to target depth. It intersected carbonate rocks at the same depth as the first hole, indicating that the fault actually dips 65 to 70



degrees to the west in this area. Neither of the 1997 drillholes encountered the altered material that hosted gold mineralization in the 1996 drillhole.

No significant gold assays were returned from the drill holes. The only assays of greater than one gram per tonne were obtained from T97DH370, as shown above, and only the assay from 141.57 to 142.33 metres was within the fault zone. The two other assays were from higher up the hole and hosted in mafic volcanics and quartzite respectively. Alteration was not observed to be intense or extensive in either of these units, even in close proximity to the fault zone.

11.0 CONCLUSIONS AND RECOMMENDATIONS

Diamond drilling in 1997 below the mineralized intersection obtained during the 1996 program failed to return significant gold mineralization. Holes to the north, south and now downdip, effectively close off the potential for an economic deposit along this portion of the Limestone Creek Fault and no further work is recommended for this area. This however, does not preclude the possibility that significant gold mineralization may exist elsewhere along strike to the northwest or southeast.

12.0 REFERENCES

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APPENDIX I
Statement of Qualifications

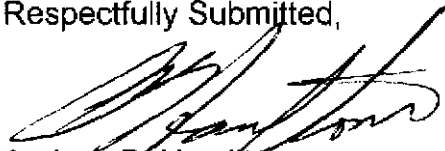
Statement of Qualifications

I, Andrew P. Hamilton, with a residence address of #201-2166 West 8th Avenue, Vancouver, B.C., do hereby certify that:

1. I am a graduate of the University of British Columbia at Vancouver, B.C., with a Bachelor of Science Degree in Geological Sciences.
2. I have practiced my profession as a Geologist in British Columbia and the Northwest Territories since 1991.
3. I am presently employed full time as a project geologist with North American Metals Corp. of #1500 - 700 West Pender Street, Vancouver, B.C.
4. The work described in this report is based on fieldwork conducted from July 5 to July 21, 1997, in which I supervised.
5. I have no direct or indirect financial interest in any company known by me to have an interest in the mineral properties described in this report, Nor do I expect to receive any such interest.
6. I am the author of this report.

Dated at Vancouver, B.C., this 10TH day of DECEMBER, 1997

Respectfully Submitted,


Andrew P. Hamilton

APPENDIX II
Statement of Costs

Statement of Costs

Work completed July 5 - July 21, 1997

| | |
|---|-------------------|
| Wages - field days (12 hours) | |
| Geologist - A. Hamilton 11 days | \$4125.00 |
| Assistant - G. Dennis 16 days | \$3600.00 |
| | |
| Wages - office (8 hours) | |
| Geologist - A. Hamilton - report preparation (3 days) | \$750.00 |
| | |
| Room and Board | |
| NAMC crew (27 days @ \$32.00/day) | \$864.00 |
| Drilling Crew (44 days @ \$32.00/day) | \$1408.00 |
| | |
| Diamond Drilling - 311.49 metres of HQ diameter core | |
| Advanced Drilling, Surrey, B.C. | \$57086.35 |
| | |
| Equipment Rental - Sperry Sun single shot survey instrument (2 weeks) | |
| Pothier Enterprises, Richmond, B.C. | \$1000.00 |
| | |
| Laboratory analyses - 267 fire assays @ \$7.00/ sample | |
| Golden Bear Mine | \$1869.00 |
| | |
| TOTAL | \$70702.35 |

APPENDIX III

Golden Bear Mine Lab fire Assay Procedures

GOLDEN BEAR MINE ASSAY LAB - ANALYTICAL PROCUDURES

All rock samples assayed at the minesite were assayed for gold using standard fire assay techniques:

- samples are dried, crushed and ring milled to 85% -200 mesh.
- one assay tonne is fused at 1980°C and the resulting lead button is cupelled at 1760°C.
- dore bead is then parted in 20% HNO₃.
- parted bead is washed, dried and weighed.
- final weight is recorded, multiplied by 34.286 and reported as grams per tonne.

Assays are not considered accurate if they are below 0.17 grams per tonne.

APPENDIX IV

**NAMC Logging Codes and Conventions
Diamond Drill Logs
Assay Sheets**

LOGGING CODES
for
PC-XPLOR DRILL HOLE DATABASE

TABLE 1 Drill Hole Name and Location

Hole-ID

Surface drill holes in the Golden Bear area are numbered sequentially from the first hole drilled on the property in 1983. The hole-id consists of an 8 character code. The first letter refers to the claim name (all Kodiak A holes start with the letter T because they were drilled on the former Totem claim). The next two numbers indicate the year the hole was drilled. The next two characters are DH for surface hole or UG for underground hole. The final three characters refer to the sequential hole number. Underground and surface holes have separate sequential numbering systems.

Collar Location

Collar locations of the drill holes are measured from the top of the casing. Coordinates are most generally referenced using the Mine Grid coordinate system.

Length of Drill Hole

The total depth of the hole is recorded in metres to 2 decimal places.

Project Area

The general project area is defined using this alphanumeric variable. This variable is useful for defining subsets of drill holes based on mineralized horizons or areas intersected. All Kodiak A drill holes were assigned the variable name KODIAK.

TABLE 2 Downhole Deviation Data

Depth

Depth of the downhole deviation measurement. Collar surveyed orientations have a depth of 0.00.

Azimuth

Azimuth of the downhole deviation or collar measurement reported in decimal degrees in a clockwise direction from North. North corresponds to 0.0 degrees and angles up to 360 degrees are allowed.

Dip

Dip of the downhole deviation or collar measurement reported in decimal degrees. A vertical upright drill hole has a dip of +90.0 degrees, and a vertical downward hole has a dip of -90.0 degrees.

Test Type

A brief description of the test type is recorded with this variable. Acid dip tests are recorded as ACID. Sperry-Sun single shot tests are recorded as SPERRY. Surveyed orientations (collar) are reported as SURVEY.

TABLE 3 General Drill Hole Information

Drill Hole Type

Core diamond drill holes are assigned the type DH. Reverse circulation drill holes are assigned the type RC.

Size of Core

The size of core is recorded as HQ, NQ, or BQ. If reduction had to occur during drilling, all the different sizes are indicated sequentially, i.e. HQNQ.

Start Date

This variable records the day the drill hole was collared. It is recorded using the format DD/MM/YYYY. Collaring of a hole during the morning hours of a night shift is still recorded as being for the previous day.

Stop Date

The date the hole was shut down is indicated in format DD/MM/YYYY. As with the start date, early morning night shift shutdowns are recorded as being for the previous day.

Logged By

This variable contains the initials of the geologist logging the drill hole. Up to three characters may be used.

Edited By

This variable records the initials of the person who edited the drill log.

Surveyed By

The initials of the surveyor for the collar coordinates are entered here.

Contractor

This variable records the drilling contractor for the drill hole.

Rig Type

The type of rig used to drill the hole is indicated here.

Units

By default the drill holes are logged in metres. Feet may be used in special situations.

TABLE 4 Lithology Information

From

The start of a lithologic interval is recorded to two decimal places. The top of the hole is assigned the From of 0.00. The FROM variable for the next unit must correspond to the TO variable for the present unit. Current practice does not allow for nested intervals; the lithological units are reported sequentially starting from the top of the drill hole.

To

The end of a lithologic interval is recorded to two decimal places. Please note the above discussion concerning nested lithologic intervals.

Flag

Key flags are utilized to mark geologic intervals of specific structural importance. Generally these are reserved for key fault zones which may be mineralized.

| | |
|-----|-----------------------------------|
| CUB | Cub Fault |
| BF | Bear Fault |
| FWF | Footwall Fault |
| ISH | Internal Sliver Hangingwall Fault |
| ISF | Internal Sliver Footwall Fault |
| ISL | Internal Sliver Fault |
| FOF | Foster's Fault |
| WWF | West Wall Fault |
| BLF | Black Fault |
| FLF | Fleece Fault |
| FWT | Footwall Fault |
| CNF | Central Fault |
| BLS | Base of Landslide |

Rock Code

Rock types encountered in the different Golden Bear drilling programs have been assigned a 4 letter code as defined below:

| | |
|-------------|--|
| CASE | Casing - used at the top of a hole where the casing was drilled into bedrock or firm ground. |
| CAVE | Material which has been recovered with an interval of core but which has fallen into the recovered position from higher up the hole. If labelled as cave by the drill crew, this code and interval is generally skipped as it is not included within their footage tags. |
| OVER | Overburden - Core recovery through unconsolidated soil or gravel over bedrock. |
| TRIC | Triconed - Interval where the hole was advanced using a tricone bit. No recovery for this interval. |
| LOST | An interval through which no recovery of core has occurred. This code should be used sparingly; it is not intended for zones of poor recovery. |

| | |
|-------------|--|
| VNQZ | Quartz vein of substantial size (i.e. greater than 10 cm). |
| VNCA | Calcite vein of substantial size. |
| BSDY | Basaltic Dyke - Fine grained, dark green to black, equigranular "basalt" dyke. Locally may be vesicular or amygdaloidal. Correlates with Miocene Level Mountain Basalt. |
| ANDY | Andesite Dyke - Fine grained, dark green-grey, intermediate intrusive dyke. Contains up to 20% feldspar phenocrysts up to 2 mm across enclosed in an aphanitic groundmass. |
| RHDY | Rhyolite dyke. |
| DIDY | Diorite Dyke - Dark green, medium grained intrusive containing euhedral pyroxene and feldspar crystals up to 4mm across. |
| GRDI | Granodiorite - Coarse to medium grained granodiorite with hornblende as the chief mafic constituent. Biotite is usually present. Plagioclase forms light grey, white, or greenish subhedral crystals. Plagioclase is commonly surrounded by anhedral grains of flesh coloured K-feldspar. Clear, colourless or smoky quartz occurs as interstitial grains and subhedral crystals lining miarolitic cavities. |
| GRDF | Foliated Granodiorite - Fine to medium grained diorite to quartz monzonite. Chlorite-altered hornblende is the most abundant mafic constituent. Feldspars are opaque, chalky white or tinted pink. Characteristically shows a strong mineral alignment, both planar and linear. |
| GOUG | Highly sheared, "punky", extremely soft clay material from an unidentifiable protolith. Assumed to be a sheared variant of the wallrock lithology. |
| PYTF | Pyritic shear developed in mafic volcanic rocks. Rock is highly sheared, dark grey to black. It is silicified and competent to clay-rich and soft. It contains abundant fine to medium grained sulphides, mainly pyrite. Invariably anomalous in gold and silver. |
| PGTF | Same original lithology as PYTF but entirely broken down to soft clay fault gouge by post mineral fault motion. No |

original texture preserved. The gouge is dark grey, locally limonitic. Invariably anomalous in gold and silver; grade is variable.

- GBRO** Gabbro - Medium green, massive, porphyritic gabbro containing 1 to 4 mm crystals of plagioclase and pyroxene.
- MFTF** Mafic Volcanic Rock - *Underground use only. Undifferentiated basaltic pyroclastic and flow rocks. Generally massive to poorly bedded. Lithologies include MFAS, MFEP, MFLP. All are dark grey to dark green in colour.*
- MFAS** Mafic Ash Tuff - Basaltic pyroclastic rock comprised of at least 50% vitric and lithic clasts less than 2 mm across. Variants include crystal tuff where at least some of the clastic components include crystal fragments. Rock may be well bedded to poorly bedded and is typically dark green.
- MFEP** Mafic Epiclastic Volcanic Rock - Dark grey to green clastic sedimentary rock formed through erosion and reworking of mafic volcanic rocks. Typically well bedded with normal grading of moderately sorted clasts.
- MFLP** Mafic Lapilli Tuff - Basaltic pyroclastic rock comprised of vitric and lithic clasts 2mm to 64mm across which occupy greater than 50% of the rock by volume. Rock may be massive or poorly bedded and is typically dark green.
- MFFL** Mafic Volcanic Flow - Basaltic volcanic flow rock. Typically dark green with plagioclase and pyroxene phenocrysts 2mm to 4mm across. Commonly massive in appearance but may display pillow structures in outcrop.
- MFCA** Mafic Volcanic Rock, Carbonate Altered - Basaltic pyroclastic, flow, or epiclastic rocks bleached medium brown to light grey or cream. Coloured by carbonatization including development of silica, ankerite, dolomite, calcite, sericite, "mariposite", and clay enrichment. *May contain up to 10% pyrite developed as patches, veinlets and envelopes. Most commonly anomalous in gold and silver; rarely ore grade.*

- ARGI** Argillite - Fine grained, dark grey to black, massive to finely bedded, pelitic rock which is commonly graphitic. Where tectonized it may develop distinct graphitic slip planes.
- CHSB** Chert, Silicified and Brecciated - Matrix supported, brecciated chert with angular chert and minor dolomite or silicified dolomite clasts in a light to medium grey matrix of secondary silica. Clasts are rotated. There is commonly a heterogeneous component including minor volcanic fragments. Trace sulphides may be present. May contain anomalous gold and silver grades.
- CHXB** Chert, Silicified, Brecciated, and Sulphidized - Matrix supported, brecciated chert with angular primary quartz and minor dolomite or silicified dolomite clasts in a dark grey matrix of secondary silica and fine grained sulphides. Clasts are rotated. There is commonly a heterogeneous component including up to 30% tuff and pyritic tuff fragments. Commonly ore grade.
- CHRT** Chert - Massive to finely laminated, white to dark grey cryptocrystalline, primary quartz. May be interbedded with up to 20% limey particulate beds. May be crackled or form jigsaw breccias with a silica or ankeritic matrix. May contain minor veinlets or replaced limy layers of silica with trace pyrite. May contain anomalous gold and silver.
- DOSB** Dolomite, Silicified and Brecciated - Matrix supported, brecciated dolomite with angular primary chert and dolomite or silicified dolomite clasts in a matrix of secondary silica. Commonly light grey but may locally be dark grey. clasts are rotated. There may be a heterogeneous component, including minor tuff fragments. Trace sulphides may be present. May contain anomalous gold and silver grades.
- DOXB** Dolomite, Silicified, Brecciated, and Sulphidized - Matrix supported, brecciated dolomite with angular clasts of primary chert, dolomite, or silicified dolomite in a dark grey matrix of secondary silica and fine grained sulphides. Clasts are rotated. There is commonly a heterogeneous component including up to 30% tuff and pyritic tuff fragments. Commonly has anomalous gold and silver grades.

- DOCH** Dolomite with Chert Interbeds - Thick bedded to massive, tan to light brown, fine to medium grained dolomite with primary fossiliferous chert as narrow discontinuous lenses, layers, or beds. Primary chert forms greater than 20% of the unit. Chert occurs as white to medium grey to dark grey, massive to finely laminated layers or lenses (nodules) in the dolomite. No sulphides are present in this lithology unless silicified. Where tectonized, this rock is extensively fragmental with abundant, angular to rounded, large fragments of chert up to 8cm across and smaller fragments of dolomite up to 3cm across.
- DOLO** Dolomite - Massive to thick bedded, tan to light brown, fine to medium grained dolomite. Contains up to 20% discontinuous primary chert layers. Where tectonized this rock appears extensively fragmental with angular to rounded dolomite and chert fragments up to 5cm across.
- LMBC** Limestone, Banded and Crinoidal - Buff to tan or grey coloured, thin bedded limestone locally containing crinoidal bioclastic debris. May contain cherty layers.
- LMST** Limestone - Massive or thick to medium bedded, calcitic limestone. White to pale grey in colour with local bioclastic debris or argillaceous components.
- KRST** Karst Breccia Zone: used either for karst-related textures or for lost zones caused by karst holes within the rocks being drilled. Breccias consist of limestone and chert clasts in a fine grained, orange brown, limonitic sand to silt matrix. Matrix may contain some sedimentary textures. The karst breccias typically contain late, anastomosing, translucent grey, calcite veinlets which crosscut all other features.
- PHYL** Phyllite - Fine grained, dark, clastic sedimentary rock with secondary fine grained mica development forming a platy phyllitic texture and lustrous sheen. Typically intercalated with volcanic rocks which have been largely converted to greenstone and chlorite-amphibole schist. Primary bedding and textural features are preserved.
- LMSL** Silicified Limestone - Rock is severely silicified, but may retain some features described under LMST or LMBC (*i.e.*

bedding, laminae, bioclastic debris). Rock cannot be scratched with a steel blade. Rock does not effervesce in 10% HCl.

- SLST** Siltstone - Generally greyish to orange-brown in colour. Contains greater than 50% silt size material and less than 50% carbonate minerals. Massived to bedded and/or laminated. Locally interbedded with LMBC, LMST, and/or LMSL. Pyrite may be present as disseminated cubes or aggregates. Locally fossiliferous.
- HLBX** Heterolithic Breccia - Breccia containing more than one lithology type among the clasts.
- LMBX** Limestone Breccia - Breccia containing limestone and silicified limestone as the dominant clast lithology. It is suggested that this code be discontinued; instead use the appropriate limestone code with BX as the first texture.
- LMCH** Limestone with Chert - Texturally identical to DOCH. Fine to medium grained, off white to light grey, calcitic limestone with primary chert lenses or layers. Chert bands are typically pale grey.
- LMGT** Limestone, Graphitic and Thin Bedded - Thinly bedded, *medium dark to dark grey, calcitic limestone*. Bedding occurs on a scale of 5cm to 30cm. The unit appears to be nonfossiliferous. Surface weathering results in a strong ribbed appearance with dark grey limestone weathering recessively and calcareous quartz siltstone weathering in relief. Incipient black chert lenses are developed preferentially in the siltstone interbeds.

Colour

Two alphanumeric characters are used to describe the colour of the rock type. If two colours are listed together, the dominant colour is the second entry. RU, for example, is reddish brown. Colours such as pink can be described as 7R = light red.

Lightness Scale

| | |
|---|--------------------|
| 9 | palest |
| 8 | pale |
| 7 | light |
| 6 | light-ish |
| 5 | medium (50% light) |
| 4 | dark-ish |
| 3 | dark |
| 2 | very dark |
| 1 | darkest |

Colour Scale

| | |
|---|---------------|
| A | grey |
| B | blue |
| G | green |
| L | lime (YG) |
| M | mauve |
| N | black |
| O | orange |
| P | purple |
| Q | aqua (BP) |
| R | red |
| T | tan (khaki) |
| U | brown (umber) |
| V | violet (BP) |
| W | white |
| Y | yellow |

Texture

Four different textures may be described by these two letter codes. The dominant texture should be listed first and the most poorly developed texture should be listed last.

| | | | |
|----|--------------|----|--------------|
| AM | amygdaloidal | MS | massive |
| BD | bedded | PH | phyllitic |
| BN | banded | PL | plutonic |
| BW | boxworked | PP | porphyritic |
| BX | brecciated | RB | rebrecciated |
| CR | crackled | SC | schistose |
| FO | foliated | SH | sheared |
| GO | gouged | SK | stockworked |
| GN | gneissic | VG | vuggy |
| GR | graded | VN | veined |
| LM | laminated | VS | vesicular |

Structural Intensity

This two character code indicates the degree of fracturing, brecciation, or gouge present in the geologic interval. The first character indicates the type of structural disturbance using the definitions below:

- 0 no brecciation, no shearing, no gouge. Minor fracturing.(no structural intensity modifier is required, ie. No second character)
- 1 fracturing, only minor gouge and brecciation
- 2 brecciation and gouge

The second character indicates the degree of intensity of the structural disturbance using the following definitions:

- 2 very weak
- 4 fairly weak
- 6 fairly strong
- 8 very strong
- 9 completely

Alteration Facies/Intensity

This two character code indicates the alteration facies and the alteration intensity of the geologic interval. The codes are defined below:

Carbonate Package

- 0 very weak to unaltered limestone

- 12 weakly dolomitized
- 14 moderately dolomitized less than 15%
- 16 strongly dolomitized quartz
- 18 very strongly dolomitized

- 19 totally dolomitized

- 22 weakly silicified may be
- 24 moderately silicified dolomitized
- 26 strongly silicified
- 28 very strongly silicified

- 29 totally silicified

Greenstone Package

| | | |
|----|---|-----------------|
| 0 | very weak to unaltered greenstone | |
| 12 | weakly veined, bleached | less than 1% |
| 14 | moderately veined, bleached | pyrite and/or |
| 16 | strongly veined, bleached | fine sulphides |
| 18 | very strongly veined, bleached | |
| 19 | totally bleached | |
| 22 | weakly bleached, pyritized | |
| 24 | moderately bleached, pyritized | greater than 1% |
| 26 | strongly pyritized, possibly bleached | pyrite and/or |
| 28 | very strongly pyritized, possibly bleached | fine sulphides |
| 29 | intensely pyritized, possibly bleached | |

Structural Identity

Distance: enter the depth at which the structure occurs.

A two letter code describes structural features observed in the geologic interval. Any number of structures may be defined.

| | | | |
|----|-----------------------|------|--------------------------|
| BD | bedding | QA | quartz-Fe carbonate vein |
| BN | banding | QC | quartz-calcite vein |
| CD | calcite-dolomite vein | QD | quartz-dolomite vein |
| CM | chilled margin | QV | quartz vein |
| CV | calcite vein | SH | shear |
| DV | dolomite vein | SS | slickensides |
| FC | fault contact | SV | sulphide vein |
| FR | fracture | UC | upper contact |
| FO | foliation | VN | vein |
| FZ | fault/fracture zone | \$\$ | sheeting |
| LC | lower contact | FS | flame structure |
| LM | lamination | | |

Thickness of Structure

The thickness scale is used to indicate the thickness of the structural feature described immediately above.

| | | |
|---|------------------|------------------|
| 9 | extremely thick | greater than 20m |
| 8 | very thick | 20m |
| 7 | thick | 6m |
| 6 | medium thick | 2m |
| 5 | medium | 60cm |
| 4 | medium thin | 20cm |
| 3 | thin | 6cm |
| 2 | very thin | 2cm |
| 1 | laminated | 0.6cm |
| 0 | thinly laminated | 0.2cm |

Angle of Structure

The angle of the above structural feature relative to the core axis. Structures going straight down the core axis have an angle of 0.

Mineral

Certain alteration and/or ore minerals are noted during the core logging. The following abbreviations are used for the different minerals:

| | | | |
|----|--------------------|----|----------------|
| QZ | quartz | PY | pyrite |
| CA | calcite | CP | chalcopyrite |
| AK | ankerite | LI | limonite |
| CL | chlorite | HE | hematite |
| GY | gypsum | JA | jarosite |
| MU | muscovite-sericite | SC | scorodite |
| CY | clay | FS | fine sulphides |
| FU | "mariposite" | | |
| DO | dolomite | | |

Mineral - How

The following two letter code indicates how the alteration and ore minerals occur.

| | | | |
|----|-----------------------|------|-------------------------------|
| AM | amygdules | SP | spots |
| BL | blebs | PR | pervasive |
| BM | breccia matrix | PT | patches (as in quilts) |
| CO | coatings | CC | rosettes and crystal clusters |
| CL | clasts | SL | selvages |
| DS | disseminated | \$\$ | sheeting |
| EN | envelopes | ST | staining (as in tarnish) |
| FC | framework crystals | EU | euhedral crystals |
| GO | gouge | VN | veins, macroveins, microveins |
| RP | replaced, phenocrysts | BW | boxwork |
| EY | eyes, augen | DA | dalmationite |
| IN | interstitial | | |
| SK | stockwork | | |
| LM | laminations - bedded | | |
| MS | massive | | |
| ND | nodules | | |

Mineral - Amount

The two character numeric code indicates the amount of the *alteration or ore mineral* present. Enter the estimated % from 0 to 99.

TABLE 5 - Assay Information

From

The start of an assay interval is recorded to two decimal places. Assay intervals should not cross lithologic interval boundaries. The assay intervals are reported sequentially starting from the top of the drill hole. Intervals without assays are not entered into the PC-XPLOR database.

To

The end of an assay interval is recorded to two decimal places.

Sample Tag Number

The sample tag number for a particular assay interval is reported. This field is alphanumeric. In the Golden Bear drill hole database the sample tag numbers are not unique; therefore assay values cannot be merged into the the database.

Recovery

The length of core present within an assay interval is recorded to two decimal places in the recovery column. This variable is reported as metres. It is converted to a % within the database using data manipulation.

Au g/t

Gold assay values in grams/tonne are recorded to two decimal places.

Ag g/t

Silver assay values in grams/tonne are recorded to one decimal place. This value is not always present.

TABLE 6 - Geotechnical Data

All geotechnical information is collected between footage tags present in the core box. Each intervals between footage tags represents a single drill run where the core tube is retrieved and core is placed in the core box.

From

The start of a geotechnical interval is recorded to two decimal places. Geotechnical intervals are between drill runs and will cross lithologic and assay interval boundaries. The geotechnical intervals are reported sequentially starting from the top of the drill hole.

To

The end of a geotechnical interval = drill run is recorded to two decimal places.

Recovery

The actual length of recovered core is reported in metres to two decimal places. Efforts should be made to "squeeze" spread out core back together before measuring the amount of core recovered.

RQD - Rock Quality Designation

The RQD per drill run is recorded to two decimal places. This variable records the sum of the lengths of core which are longer than twice the core diameter. For NQ core it records the sum of the lengths greater than 10cm. For HQ core the RQD reports the sum of the lengths greater than 12 cm. It is reported in metres.

Hardness

The strength of intact rock can be estimated from a simple index using tools readily available to the core logger. The following table summarizes the classification system used for estimating rock hardness.

| | | |
|----|---------------------|--|
| S1 | very soft clay | easily penetrated several inches by fist |
| S2 | soft clay | easily penetrated several inches by thumb |
| S3 | firm clay | can be penetrated several inches by thumb with moderate effort |
| S4 | stiff clay | readily indented by thumb but penetrated only with great effort |
| S5 | very stiff clay | readily indented by thumbnail |
| S6 | hard clay | indented with difficulty by thumbnail |
| R0 | extremely weak rock | indented by thumbnail |
| R1 | very weak rock | crumbles under firm blows with point of geological hammer, can be peeled by a pocket knife |

| | | |
|----|-----------------------|---|
| R2 | weak rock | can be peeled by a pocket knife with difficulty, shallow indentations made by firm blow with point of geological hammer |
| R3 | medium strong rock | cannot be scraped or peeled with a pocket knife, specimen can be fractured with single firm blow of geological hammer |
| R4 | strong rock | specimen requires more than one blow of geological hammer to fracture it |
| R5 | very strong rock | specimen requires many blows of geological hammer to fracture it |
| R6 | extremely strong rock | specimen can only be chipped with geological hammer |

Fracture Intensity

This one character numeric code indicates the fracture density for a drill run. The code ranges from 0 through 9 according to the following scale:

| Fracture Frequency per 3.05 Metres | Geolog Rating |
|---------------------------------------|---------------|
| 0-16 | 0 |
| 17-32 | 1 |
| 33-46 | 2 |
| 47-60 | 3 |
| 61-76 | 4 |
| 77-92 | 5 |
| 93-104 | 6 |
| 105-122 | 7 |
| 123-136 | 8 |
| 137-152 | 9 |

The Geolog rating is the value entered into the PC-XPLOR database.

MEMO

TO: Maggie
Exploration Dept.

FROM: Neil Giesbrecht
Engineering Dept.

RE: Sept. 7, 1997 Diamond Drill Hole Survey

The collar coordinates and survey information for diamond drill holes 371 & 372 as observed Sept 7, 1997 are as follows;

| DDH # | Northing | Easting | Elevation | Azimuth | Dip |
|-------|----------|----------|-----------|---------|---------|
| 371 | 26056.64 | 22244.54 | 1899.78 | 58°45' | -54°55' |
| 370 | 26042.22 | 22252.20 | 1898.88 | 60°36' | -53°09' |

If you have any questions, too bad.

GOLDEN BEAR OPERATING COMPANY

DATE

MINE ASSAY REPORT (1 SAMPLES)

ASSAYER

GC

| TAG NUMBER | SAMPLE DESCRIPTION | Au g/t | Ag g/t | C % | S % | ... |
|------------|--------------------|--------|--------|-----|-----|------------|
| 40848 | DDH | .31 | | | | |
| 9 | | TR | | | | |
| 50 | | .03 | | | | |
| 40871 | | .10 | | | | |
| 40872 | | TR | | | | |
| 3 | | TR | | | | |
| 4 | | 1.10 | | | | |
| 5 | | .10 | | | | |
| 6 | | TR | | | | |
| 7 | | TR | | | | |
| 8 | | .07 | | | | |
| 9 | | .10 | | | | |
| 40880 | | .96 | | | | ← Standard |
| 1 | | .89 | | | | |
| 2 | | TR | | | | |
| 3 | | .31 | | | | |
| 4 | | .10 | | | | |
| 5 | | .10 | | | | |
| 6 | | .17 | | | | |
| 7 | | .10 | | | | |
| 8 | | TR | | | | |
| 9 | | TR | | | | |
| 40890 | | TR | | | | |

DDH 370

DDH 371

← Standard

GOLDEN BEAR OPERATING COMPANY

DATE

MINE ASSAY REPORT (SAMPLES)

ASSAYER

| TAG NUMBER | SAMPLE DESCRIPTION | Au g/t | Ag g/t | C % | S % | ... |
|------------|--------------------|--------|--------|-----|-----|-----|
| 40891 | DDW | TR | | | | |
| 2 | | .03 | | | | |
| 3 | | .07 | | | | |
| 4 | | .14 | | | | |
| 5 | | .07 | | | | |
| 6 | | .10 | | | | |
| 7 | | .10 | | | | |
| 8 | | TR | | | | |
| 9 | | TR | | | | |
| 40900 | | TR | | | | |
| 1 | | .14 | | | | |
| 2 | | TR | | | | |
| 3 | | TR | | | | |
| 4 | | .34 | | | | |
| 5 | | TR | | | | |
| 6 | | .09 | | | | |
| 7 | | .07 | | | | |
| 8 | | .07 | | | | |
| 9 | | .10 | | | | |
| 40910 | | TR | | | | |
| 1 | | .03 | | | | |
| 2 | | TR | | | | |
| 3 | | .10 | | | | |
| 40914 | | TR | | | | |

GOLDEN BEAR OPERATING COMPANY
 MINE ASSAY REPORT (SAMPLES)

DATE: July 17, 1997

ASSAYER: D

| TAG NUMBER | SAMPLE DESCRIPTION | Au g/t | Ag g/t | C % | S % | S = % |
|------------|--------------------|--------|--------|-----|-----|-------|
| 40915 | DDH | .03 | | | | |
| 6 | | .03 | | | | |
| 7 | | .10 | | | | |
| 8 | | .07 | | | | |
| 9 | | .03 | | | | |
| 920 | | .96 | | | | |
| 1 | | TR | | | | |
| 2 | | .07 | | | | |
| 3 | | TR | | | | |
| 4 | | .14 | | | | |
| 5 | | .07 | | | | |
| 6 | | .10 | | | | |
| 7 | | TR | | | | |
| 8 | | .03 | | | | |
| 9 | | .03 | | | | |
| 930 | | .07 | | | | |
| 1 | | .07 | | | | |
| 2 | | .07 | | | | |
| 3 | | .07 | | | | |
| 4 | | .03 | | | | |
| 5 | | .10 | | | | |
| 6 | | .14 | | | | |
| 7 | | .14 | | | | |
| 40938 | | .10 | | | | |

GOLDEN BEAR OPERATING COMPANY
 MINE ASSAY REPORT (SAMPLES)

DATE: July 17, 1927
 ASSAYER: D

| TAG NUMBER | SAMPLE DESCRIPTION | Au g/t | Ag g/t | C % | S % | S= % |
|------------|--------------------|--------|--------|-----|-----|------|
| 40939 | DDH | .34 | | | | |
| 940 | | .03 | ← | | | |
| 1 | | .07 | | | | |
| 2 | | .07 | | | | |
| 3 | | .03 | | | | |
| 4 | | .17 | | | | |
| 5 | | .10 | | | | |
| 6 | | .14 | | | | |
| 7 | | .07 | | | | |
| 8 | | .14 | | | | |
| 9 | | .10 | | | | |
| 950 | | .31 | | | | |
| 1 | | .07 | | | | |
| 2 | | .10 | | | | |
| 3 | | .24 | | | | |
| 4 | | .14 | | | | |
| 5 | | .14 | | | | |
| 6 | | .07 | | | | |
| 7 | | .10 | | | | |
| 8 | | .07 | | | | |
| 9 | | .14 | | | | |
| 960 | | .09 | ← | | | |
| 1 | | .27 | | | | |
| 40962 | | .17 | | | | |

GOLDEN BEAR OPERATING COMPANY
 MINE ASSAY REPORT (SAMPLES)

DATE: July 21/97
 ASSAYER: Cynthia

| TAG NUMBER | SAMPLE DESCRIPTION | Au g/t | Ag g/t | C % | S % | S= % |
|------------|--------------------|--------|--------|-----|-----|------|
| 40201 | DDH | .03 | | | | |
| 02 | | .10 | | | | |
| 03 | | TR | | | | |
| 04 | | TR | | | | |
| 05 | | .24 | | | | |
| 06 | | TR | | | | |
| 07 | | .10 | | | | |
| 08 | | TR | | | | |
| 09 | | TR | | | | |
| 10 | | .10 | | | | |
| 11 | | .10 | | | | |
| 40988 | | .24 | | | | |
| 89 | | .21 | | | | |
| 90 | | .38 | | | | |
| 91 | | .24 | | | | |
| 92 | | .37 | | | | |
| 93 | | .21 | | | | |
| 94 | | .14 | | | | |
| 95 | | .10 | | | | |
| 96 | | TR | | | | |
| 97 | | TR | | | | |
| 98 | | .69 | | | | |
| 99 | | .14 | | | | |
| 41000 | | .82 | | | | |

← Goodgold

NORTH AMERICAN METALS CORP
 GEOTECHNICAL LOGGING SHEET

DDH 797DDH371
 PAGE 1 of

| FROM (ft) | TO (ft) | RECOVERY (%) | RGD (%) | HARDNESS | FRACTURE INTENSITY |
|--------------|------------|-----------------|------------|----------|-----------------------|
| 15.34 | 15.54 | 0.17 | 0 | 4 | 8 |
| 15.54 | 16.15 | 0.66 | 0 | 3 | 9 |
| 16.15 | 17.68 | 1.52 | 0 | 3 | 9 |
| 17.68 | 19.20 | 1.63 | 0.13 | 3 | 9 |
| 19.20 | 20.73 | 1.47 | 0.51 | 2 | 9 |
| 20.73 | 22.25 | 1.23 | 0.19 | 2 | 8 |
| 22.25 | 22.86 | 0.62 | 0.30 | 1 | 8 |
| 22.86 | 25.30 | 0.13 | 0 | 0 | 9 |
| 25.30 | 26.82 | 1.45 | 0.18 | 2 | 9 |
| 26.82 | 28.04 | 1.51 | 0.40 | 2 | 9 |
| 28.04 | 29.26 | 0.63 | 0.16 | 4 | 8 |
| 29.26 | 29.87 | 1.03 | 0.30 | 3 | 7 |
| 29.87 | 31.39 | 1.74 | 0.26 | 2 | 9 |
| 31.39 | 33.53 | 0.94 | 0.20 | 2 | 8 |
| 33.53 | 34.13 | 0.45 | 0 | 0 | 9 |
| 34.13 | 34.59 | 0.25 | 0 | 0 | 9 |
| 34.59 | 35.96 | 1.21 | 0.36 | 3 | 1 |
| 35.96 | 37.49 | 1.48 | 0.84 | 3 | 1 |
| 37.49 | 39.01 | 1.53 | 1.08 | 2 | 1 |
| 39.01 | 40.54 | 1.58 | 0.47 | 2 | 1 |
| 40.54 | 42.06 | 1.45 | 0.19 | 2 | 5 |
| 42.06 | 43.58 | 1.47 | 0.87 | 2 | 4 |
| 43.58 | 45.11 | 1.35 | 0.82 | 2 | 2 |
| 45.11 | 46.63 | 1.51 | 0.81 | 3 | 2 |
| 46.63 | 48.15 | 1.37 | 0.52 | 3 | 3 |
| 48.15 | 49.68 | 1.46 | 0.60 | 2 | 2 |
| 49.68 | 51.20 | 1.57 | 1.10 | 2 | 1 |
| 51.20 | 52.73 | 1.47 | 0.37 | 1 | 2 |
| 52.73 | 54.25 | 1.29 | 0.38 | 1 | 5 |
| 54.25 | 55.78 | 1.52 | 0.96 | 3 | 1 |
| 55.78 | 57.30 | 1.48 | 0 | 3 | 4 |
| 57.30 | 58.83 | 1.57 | 0.24 | 3 | 2 |
| 58.83 | 60.35 | 1.50 | 0.26 | 3 | 2 |

| FROM (m) | TO (m) | RECOVERY (%) | FCB (m) | HARDNESS S | RAV NECESSITY |
|------------------|------------------|-----------------|--------------|---------------|------------------|
| 60.35 | 61.87 | 1.52 | 0.22 | 3 | 3 |
| 61.87 | 63.39 | 1.42 | 0.15 | 3 | 5 |
| 63.39 | 64.92 | 1.55 | 0 | 3 | 5 |
| 64.92 | 66.44 | 1.30 | 0.32 | 3 | 5 |
| 66.44 | 67.97 | 1.42 | 0 | 3 | 5 |
| 67.97 | 68.88 | 0.77 | 0 | 3 | 5 |
| 68.88 | 70.56 | 1.52 | 0.96 | 1 | 3 |
| 70.56 | 72.08 | 1.55 | 0.33 | 1 | 5 |
| 72.08 | 73.76 | 1.53 | 0.45 | 0 | 9 |
| 73.76 | 75.43 | 1.54 | 0.34 | 3 | 3 |
| 75.43 | 76.81 | 1.10 | 0.49 | 3 | 3 |
| 76.81 | 77.45 | 0.80 | 0.31 | 3 | 5 |
| 77.45 | 78.94 | 0.35 | 0 | 3 | 6 |
| 78.94 | 80.16 | 0.80 | 0.32 | 3 | 7 |
| 80.16 | 81.68 | 1.50 | 0.31 | 3 | 4 |
| 81.68 | 83.20 | 1.45 | 1.27 | 3 | 0 |
| 83.20 | 84.73 | 1.70 | 0.88 | 3 | 1 |
| 84.73 | 86.25 | 1.10 | 0.58 | 3 | 1 |
| 86.25 | 87.78 | 0.89 | 0 | 3 | 9 |
| 87.78 | 89.00 | .67 | .12 | 3 | 7 |
| 89.00 | 89.30 | .30 | .20 | 3 | 6 |
| 89.30 | 90.22 | .34 | 0 | 3 | 4 |
| 90.22 | 90.83 | .55 | .18 | 3 | 9 |
| 90.83 | 91.74 | .60 | 0 | 3 | 9 |
| 91.74 | 92.81 | .55 | 0 | 3 | 9 |
| 92.81 | 93.57 | .57 | 0 | 3 | 9 |
| 93.57 | 94.33 | .40 | 0 | 3 | 9 |
| 94.33 | 94.94 | .60 | 0 | 3 | 9 |
| 94.94 | 96.92 | .80 | 0 | 2 | 9 |
| 96.92 | 98.45 | 1.09 | 0 | 1 | 9 |
| 98.45 | 99.97 | 1.00 | .49 | 3 | 7 |
| 99.97 | 101.50 | 1.30 | .87 | 3 | 4 |
| 101.50 | 103.02 | 1.10 | .70 | 3 | 4 |
| 103.02 | 104.24 | 1.40 | .93 | 3 | 4 |

| FROM (a) | TO (b) | RECOVER (c) | RCB (d) | HARDNESS (e) | FRACTURE INTENSITY |
|-------------|-----------|----------------|------------|-----------------|-----------------------|
| 104.24 | 106.07 | .97 | .35 | 3 | 6 |
| 106.07 | 107.59 | .43 | 0 | 3 | 9 |
| 107.59 | 109.42 | 1.42 | 0 | 0 | 9 |
| 109.42 | 111.55 | 1.06 | .21 | 2 | 7 |
| 111.55 | 113.08 | 1.31 | 0 | 1 | 9 |
| 113.08 | 115.82 | .35 | 0 | 3 | 6 |
| 115.82 | 116.74 | .78 | 0 | 3 | 9 |
| 116.74 | 118.26 | .04 | 0 | 3 | 1 |
| 118.26 | 121.01 | .36 | 0 | 3 | 5 |
| 121.01 | 122.22 | .99 | 0 | 2 | 9 |
| 122.22 | 124.05 | .94 | 0 | 2 | 6 |
| 124.05 | 125.58 | .33 | 0 | 2 | 9 |
| 125.58 | 127.10 | 0 | | | |
| 127.10 | 127.71 | 0 | | | |
| 127.71 | 128.93 | .44 | 0 | 1 | 9 |
| 128.93 | 130.76 | .18 | 0 | 0 | 9 |
| 130.76 | 131.98 | .88 | 0 | 0 | 9 |
| 131.98 | 132.28 | .28 | .13 | 2 | 8 |
| 132.28 | 133.81 | 1.44 | .88 | 2 | 4 |
| 133.81 | 135.03 | 1.10 | .49 | 2 | 1 |
| 135.03 | 136.55 | 1.48 | 1.22 | 3 | 2 |
| 136.55 | 137.77 | 1.14 | 1.05 | 3 | 1 |
| 137.77 | 139.29 | 1.45 | 1.17 | 3 | 1 |
| 139.29 | 140.51 | 1.26 | 1.14 | 3 | 0 |
| 140.51 | 142.04 | 1.59 | 1.38 | 3 | 3 |
| 142.04 | 143.56 | 1.44 | 1.19 | 2 | 0 |
| 143.56 | 145.08 | 1.49 | 1.06 | 2 | 2 |
| 145.08 | 146.61 | 1.46 | 1.38 | 2 | 0 |
| 146.61 | 148.13 | 1.48 | 1.38 | 2 | 1 |
| 148.13 | 150.11 | 1.34 | .85 | 2 | 4 |
| 150.11 | 151.64 | 1.43 | .90 | 2 | 5 |
| 151.64 | 153.31 | 1.52 | 1.17 | 2 | 4 |
| 153.31 | 154.84 | 1.52 | 1.23 | 2 | 0 |

| FROM | TO | FLAG | ROCK CODE | COLO | TEXT 1 | TEXT 2 | TEXT 3 | TEXT 4 | STRUC INT | ALTN INT | MINERALIZATION MINERAL // HOW // AMOUNT | STRUCTURE | | FROM | TO | SAMPLE# | RECOV | AU G/T | S% | | | | | | | | | | | | | | | | | | | | | |
|--|-------|------|-----------|------|--------|--------|--------|--------|-----------|----------|---|-----------|---------|-------|-------|---------|-------|--------|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|-------|-------|------|------|--|--|
| | | | | | | | | | | | | DIST | FT/THAN | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | 12.99 | | CASE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - no recovery | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12.99 | 21.96 | | QTZT | W | MS | CR | BX | GO | ZB | 26 | FS/DS/TR | 18.32 | 60/4/- | 13.99 | 14.99 | 40157 | 1.00 | 0.34 | | | | | | | | | | | | | | | | | | | | | | |
| massive, fine grained milky white quartzite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| interbedded with 15-30 cm beds of light tan MPCA, cracked texture. 70% gravel sized material, local dark brown clay gouge, very fine grained FS locally disseminated, contact between quartzite and MPCA at 17.95m is at 40° TCA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 19.01 | 60/3/- | 14.99 | 15.99 | 40158 | 0.55 | 0.51 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 19.05 | 60/3/- | 15.99 | 16.99 | 40159 | 0.79 | 0.27 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 16.99 | 17.99 | 40161 | 0.98 | 0.10 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 17.99 | 18.99 | 40162 | 1.04 | 0.21 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 18.99 | 19.99 | 40163 | 1.04 | 0.07 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 19.99 | 20.99 | 40164 | 0.97 | 0.17 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 20.99 | 21.96 | 40165 | 1.01 | 0.38 | | | | | | | | | | | | | | | | | | | | | | |
| 21.96 | 34.30 | | MPCA | UT | GO | BX | CR | VG | ZB | 1B | | | | 21.96 | 22.96 | 40166 | 0.96 | 0.10 | | | | | | | | | | | | | | | | | | | | | | |
| DIFFERENT QUARTZITE UNIT? light tan, fine grained carb altered mafic volcanic interbedded in milky white quartzite, 60% dark brown, muddy gouge, 30% gravel sized material, 50% lightly fractured, locally vuggy (etched?) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 22.96 | 23.96 | 40167 | 1.00 | 0.07 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 23.96 | 24.96 | 40168 | 0.92 | 0.10 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 24.99 | 25.96 | 40169 | 1.03 | 0.03 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 25.96 | 26.96 | 40170 | 0.98 | 0.10 | | |
| | | | | | | | | | | | | | | 26.96 | 27.96 | 40171 | 0.87 | 0.48 | | | | | | | | | | | | | | | | | | | | | | |

0.86 STANDARD 40160

NORTH AMERICAN METALS CORP
LITHOLOGY LOGGING SHEET

Logged by: BAD

DDH 797DH370

Date: JULY 7, 1977

PAGE 2 OF 7

| FROM | TO | FLAG | ROCK CODE | COLO | TEXT 1 | TEXT 2 | TEXT 3 | TEXT 4 | STRUC INT | ALTN INT | MINERALIZATION MINERAL // HOW // AMOUNT | STRUCTURE | | FROM | TO | SAMPLE# | RECOV | AU G/T | S% |
|-------|-------|------|-----------|------|--------|--------|--------|--------|-----------|----------|---|-----------|---------|-------|-------|---------|-------|--------|----|
| | | | | | | | | | | | | DIST | FT/THAN | | | | | | |
| | | | | | | | | | | | | | | 27.96 | 28.96 | 40172 | 0.86 | 0.10 | |
| | | | | | | | | | | | | | | 28.96 | 29.96 | 40173 | 0.77 | 0.10 | |
| | | | | | | | | | | | | | | 29.96 | 30.96 | 40174 | 0.97 | 0.07 | |
| | | | | | | | | | | | | | | 30.96 | 31.96 | 40175 | 0.50 | 0.17 | |
| | | | | | | | | | | | | | | 31.96 | 32.96 | 40176 | 0.34 | 0.31 | |
| | | | | | | | | | | | | | | 32.96 | 33.43 | 40177 | 0.44 | 2.13 | |
| | | | | | | | | | | | | | | 33.43 | 34.30 | 40178 | 0.57 | 0.10 | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 34.30 | 39.55 | | MCA | FT | MS | CR | GO | VN | 10 | 18 | FS/FR/0.1 | 37.37 | 60/3/- | 34.30 | 35.30 | 40179 | 1.08 | 0.03 | |
| | | | | | | | | | | | | 38.45 | 60/3/- | 35.30 | 36.30 | 40181 | 1.02 | 0.10 | |
| | | | | | | | | | | | | 34.73 | 00/0/40 | 36.30 | 37.30 | 40182 | 1.00 | 0.14 | |
| | | | | | | | | | | | | | | 37.30 | 38.30 | 40184 | 1.09 | 0.27 | |
| | | | | | | | | | | | | | | 38.30 | 39.55 | 40185 | 1.11 | 0.14 | |
| | | | | | | | | | | | | | | | | | | | |
| 39.55 | 43.18 | | MCA | TA | MS | CR | VN | BD | 14 | 14 | FS/DS/0.5 | | | 39.55 | 40.55 | 40183 | 1.03 | 0.14 | |
| | | | | | | | | | | | | | | 40.55 | 41.55 | 40184 | 0.99 | 0.14 | |
| | | | | | | | | | | | | | | 41.55 | 42.55 | 40185 | 1.09 | 0.21 | |
| | | | | | | | | | | | | | | 42.55 | 43.18 | 40186 | 0.66 | 0.10 | |

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NORTH AMERICAN METALS CORP
LITHOLOGY LOGGING SHEET

Logged by: BAD

DDH T97D1370

Date: JULY 8, 1997

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| FROM | TO | FLAG | ROCK CODE | COLO | TEXT 1 | TEXT 2 | TEXT 3 | TEXT 4 | STRUC INT | ALTN INT | MINERALIZATION MINERAL // HOW // AMOUNT | STRUCTURE | | FROM | TO | SAMPLE# | RECOV | AU/GT | S% | |
|-------|-------|------|-----------|------|--|--------|--------|--------|-----------|----------|--|-----------|----------|-------|-------|---------|-------|-------|----|--|
| | | | | | | | | | | | | DIST | FT/TH/AN | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | <i>poorly bedded, local beds of the underlying red unit, locally quartz (quartzite?)</i> | | | | | | | | | | | | | | | |
| 43.18 | 61.87 | | MFER AT | BD | 5N | 6O | VN | 26 | 16 | | PS/PS/01 HE/PU/30 | L/PI/20 | | 43.18 | 44.18 | 40187 | 0.83 | 0.24 | | |
| | | | | | <i>fine grained blue gray to orange tan/brown mafic epiclastic volcanics, thinning bedded (mm scale), sheared (avg 51.40m - 66.23m), quartz carbonate veins 2cm thick one every 30cm, fuchsite alteration along some beds, locally gneiss.</i> | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 44.18 | 45.18 | 40188 | 0.96 | 0.17 | | |
| | | | | | | | | | | | | | | 45.18 | 46.18 | 40189 | 1.03 | 0.07 | | |
| | | | | | | | | | | | | | | 46.18 | 47.18 | 40190 | 0.98 | 0.03 | | |
| | | | | | | | | | | | | | | 47.18 | 48.18 | 40191 | 0.94 | 0.07 | | |
| | | | | | | | | | | | | | | 48.18 | 49.18 | 40192 | 0.92 | 0.10 | | |
| | | | | | | | | | | | | | | 49.18 | 50.18 | 40193 | 1.09 | 0.41 | | |
| | | | | | | | | | | | | | | 50.18 | 51.18 | 40194 | 0.98 | 0.14 | | |
| | | | | | | | | | | | | | | 51.18 | 52.18 | 40195 | 0.96 | 0.34 | | |
| | | | | | | | | | | | | | | 52.18 | 53.18 | 40196 | 1.00 | 0.14 | | |
| | | | | | | | | | | | | | | 53.18 | 54.18 | 40197 | 0.92 | 0.14 | | |
| | | | | | | | | | | | | | | 54.18 | 55.18 | 40198 | 0.98 | 0.17 | | |
| | | | | | | | | | | | | | | 55.18 | 56.18 | 40199 | 1.07 | 0.07 | | |
| | | | | | | | | | | | | | | 56.18 | 57.18 | 40200 | 0.92 | 0.21 | | |
| | | | | | | | | | | | | | | 57.18 | 58.18 | 40201 | 1.02 | 0.14 | | |
| | | | | | | | | | | | | | | 58.18 | 59.18 | 40202 | 0.97 | 0.21 | | |
| | | | | | | | | | | | | | | 59.18 | 60.18 | 40203 | 1.00 | 0.03 | | |
| | | | | | | | | | | | | | | 60.18 | 61.18 | 40204 | 0.96 | 0.10 | | |
| | | | | | | | | | | | | | | 61.18 | 61.87 | 40205 | 0.96 | 0.03 | | |

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40200
STANDARD
CHECK
0.09

61.18 61.87 40206 0.72 0.03

NORTH AMERICAN METALS CORP
LITHOLOGY LOGGING SHEET

Logged by: BAD

DDH T97DH370

Date: JULY 8, 1997

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| FROM | TO | FLAG | ROCK CODE | COLO | TEXT 1 | TEXT 2 | TEXT 3 | TEXT 4 | STRUC INT | ALTN INT | MINERALIZATION MINERAL // HOW // AMOUNT | STRUCTURE | | FROM | TO | SAMPLE# | RECOV | AU GT | SW | |
|-------|-------|------|-----------|------|---|--------|--------|--------|-----------|----------|---|-----------|---------|--------|-------|---------|-------|-------|------|--|
| | | | | | | | | | | | | DIST | FT/THAN | | | | | | | |
| 61.87 | 64.04 | | QTZT | TA | BD | GO | VN | | 14 | 12 | FS/DS/0.5 | 63.68 | 60/31- | 61.87 | 63.18 | 40807 | 1.12 | 0.07 | | |
| | | | | | fine grained, light tan-gray quartzite, poorly to well bedded (mm scale) @ 50° TCA, weakly sheared + locally gouged, calcite veining < 1 cm thick, one every 10-15 cm. | | | | | | | | 63.21 | 60/31- | 63.18 | 64.04 | 40808 | 0.88 | 0.07 | |
| 64.04 | 69.43 | | MKFP | TG | BD | SH | GO | VN | ZB | 14 | | 68.93 | CV/11- | 64.04 | 65.18 | 40809 | 1.15 | 0.31 | | |
| | | | | | fine grained, medium tan-green, well bedded (< 2mm), strongly sheared, gouged locally + progressively from 66.23 - 67.52m, calcite veins < 1cm, one every 15-20cm, locally etched + irregular (68.44-68.99m < 10%), local NE + LI alteration. | | | | | | | | 66.23 | 60/61- | 65.18 | 66.23 | 40810 | 1.09 | 0.21 | |
| | | | | | | | | | | | | 69.08 | 60/41- | 66.23 | 67.52 | 40811 | 1.23 | 0.14 | | |
| | | | | | | | | | | | | | | 67.52 | 68.52 | 40812 | 0.90 | 0.17 | | |
| | | | | | | | | | | | | | | 68.52 | 69.43 | 40813 | 0.90 | | | |
| 69.43 | 84.35 | FZ | QTZT | TA | BD | SH | GO | VN | 16 | 12 | F3/DS/1 | 73.60 | 60/91- | 69.43 | 70.52 | 40816 | 1.10 | 0.21 | | |
| | | | | | fine grained, light blue-gray, well bedded (< 1cm) at 50° TCA, sheared | | | | | | | | 75.14 | 60/51- | 70.52 | 71.52 | 40817 | 0.99 | 0.10 | |
| | | | | | prominent fracture set along bedding planes, locally gouged, carbonate veins (1mm wide) one every 10cm, locally etched (71.98m), red beds of MKFP + MKCA fault zone starts at 83.21 and continues in units below. | | | | | | | | 72.67 | 60/31- | 71.52 | 72.52 | 40818 | 0.90 | 0.14 | |
| | | | | | | | | | | | | 73.42 | CV/0/35 | 72.52 | 73.52 | 40819 | 0.89 | 0.07 | | |
| | | | | | | | | | | | | 77.15 | FB/0/50 | 73.52 | 74.52 | 40821 | 0.97 | 0.07 | | |
| | | | | | | | | | | | | | | 74.52 | 75.52 | 40822 | 0.87 | 0.03 | | |
| | | | | | | | | | | | | | | 75.52 | 76.52 | 40823 | 0.95 | 0.07 | | |
| | | | | | | | | | | | | | | 76.52 | 77.52 | 40824 | 0.98 | 0.10 | | |
| | | | | | | | | | | | | | | 77.52 | 78.52 | 40825 | 0.93 | 0.07 | | |
| | | | | | | | | | | | | | | 78.52 | 79.52 | 40826 | 0.96 | 0.03 | | |
| | | | | | | | | | | | | | | 79.52 | 80.99 | 40827 | 1.28 | 0.27 | | |
| | | | | | | | | | | | | | | 80.99 | 81.68 | 40828 | 0.69 | 0.07 | | |
| | | | | | | | | | | | | | | 81.68 | 82.78 | 40829 | 1.00 | 0.07 | | |
| | | | | | | | | | | | | | | 82.78 | 84.35 | 40830 | 1.54 | 0.14 | | |

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40820
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NORTH AMERICAN METALS CORP
LITHOLOGY LOGGING SHEET

Logged by: BAD

DDH 797DH370

Date: JULY 8, 1997

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| FROM | TO | FLAG | ROCK CODE | COLO | TEXT 1 | TEXT 2 | TEXT 3 | TEXT 4 | STRUC INT | ALTN INT | MINERALIZATION MINERAL // HOW // AMOUNT | STRUCTURE | | FROM | TO | SAMPLE# | RECOV | AU/GT | S% |
|-------|--------|------|-----------|------|--------|--------|--------|--------|-----------|----------|--|-----------|----------|--------|--------|---------|-------|-------|----|
| | | | | | | | | | | | | DIST | FT/TH/AN | | | | | | |
| 84.35 | 88.26 | FZ | MPCA | FT | MS | VN | 60 | ET | 28 | 18 | | 86.66 | GV/1/- | 84.35 | 85.35 | 40831 | 0.84 | 0.07 | |
| | | | | | | | | | | | | 84.56 | 60/5/- | 85.35 | 86.35 | 40832 | 1.02 | 0.03 | |
| | | | | | | | | | | | | 85.95 | 60/4/- | 86.35 | 87.35 | 40833 | 1.08 | 0.14 | |
| | | | | | | | | | | | | 86.95 | 60/6/- | 87.35 | 88.26 | 40834 | 0.84 | 0.03 | |
| 88.26 | 98.01 | FZ | QTZ | BA | BD | SH | VN | | 26 | 14 | FS/DS/0.1 | | | 88.26 | 89.26 | 40835 | 1.00 | 0.07 | |
| | | | | | | | | | | | | | | 89.26 | 90.26 | 40836 | 0.50 | 0.10 | |
| | | | | | | | | | | | | | | 90.26 | 91.26 | 40837 | 0.54 | 1.17 | |
| | | | | | | | | | | | | | | 91.26 | 92.26 | 40838 | 0.90 | 0.21 | |
| | | | | | | | | | | | | | | 92.26 | 93.26 | 40839 | 1.00 | 0.10 | |
| | | | | | | | | | | | | | | 93.26 | 94.26 | 40841 | 0.95 | 0.45 | |
| | | | | | | | | | | | | | | 94.26 | 95.26 | 40842 | 0.87 | 0.07 | |
| | | | | | | | | | | | | | | 95.26 | 96.26 | 40843 | 0.85 | 0.07 | |
| | | | | | | | | | | | | | | 96.26 | 97.26 | 40844 | 0.50 | tr | |
| | | | | | | | | | | | | | | 97.26 | 98.01 | 40845 | 0.60 | 0.07 | |
| 98.01 | 101.79 | | QTZ | TW | BD | BK | VN | | 26 | 18 | FS/DS/1 | | | 98.01 | 99.01 | 40846 | 0.82 | 0.07 | |
| | | | | | | | | | | | | | | 99.01 | 99.97 | 40847 | 0.70 | tr | |
| | | | | | | | | | | | | | | 99.97 | 100.99 | 40848 | 0.83 | 0.31 | |
| | | | | | | | | | | | | | | 100.99 | 101.79 | 40849 | 0.76 | tr | |

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40840
STANDARD

NORTH AMERICAN METALS CORP
LITHOLOGY LOGGING SHEET

Logged by: BAD

DDH 797DH370

Date: JULY 9, 1997

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| FROM | TO | FLAG | ROCK CODE | COLO | TEXT 1 | TEXT 2 | TEXT 3 | TEXT 4 | STRUC INT | ALTN INT | MINERALIZATION MINERAL // HOW // AMOUNT | STRUCTURE | | FROM | TO | SAMPLE# | RECOV | AU/GT | S% | |
|--------|--------|------|-----------|------|---|--------|--------|--------|-----------|----------|--|-----------|-----------|--------|--------|---------|-------|-------|----|--|
| | | | | | | | | | | | | DIST | FT/TH/WAN | | | | | | | |
| 130.45 | 131.00 | | | LOST | | | | | | | | | | | | | | | | |
| | | | | | <i>- no recovery</i> | | | | | | | | | | | | | | | |
| 131.00 | 132.57 | | DOLO | VO | MS | VN | | | 0 | 12 | | | | 131.00 | 131.97 | 40856 | 0.97 | 0.14 | | |
| | | | | | <i>fine grained, massive, red brown to orange-yellow dolomite, calcite veins 20.5cm thick, one every 20-30cm, patches of coarse calcite cupolite, includes clasts 1mm to 2cm of grey DOCH</i> | | | | | | | | | | | | | | | |
| 132.57 | 142.33 | | DOCH | AT | MS | CR | BX | SH | 14 | 26 | | | | 132.57 | 133.57 | 40858 | 1.17 | TR | | |
| | | | | | <i>fine grained dark gray to tan dolomite w/ dark gray chert beds/clasts, unbedded to locally lightly brecciated (136.22-136.64) locally sheared and brecciated to gravel sized pieces (135.10-135.98m), brown clay gouge from 139.61-139.74m, calcite veins 22.0mm, one every 30cm, also coarse, late stage calcite veins and patches.</i> | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | 133.57 | 134.57 | 40866 | 0.74 | 0.07 | | |
| | | | | | | | | | | | | | | 134.57 | 135.57 | 40867 | 0.98 | TR | | |
| | | | | | | | | | | | | | | 135.57 | 136.57 | 40868 | 1.01 | 0.07 | | |
| | | | | | | | | | | | | | | 136.57 | 137.57 | 40869 | 0.92 | 0.03 | | |
| | | | | | | | | | | | | | | 137.57 | 138.57 | 40870 | 0.96 | 0.27 | | |
| | | | | | | | | | | | | | | 138.57 | 139.57 | 40871 | 0.62 | 0.10 | | |
| | | | | | | | | | | | | | | 139.57 | 140.57 | 40872 | 1.17 | TR | | |
| | | | | | | | | | | | | | | 140.57 | 141.57 | 40873 | 0.94 | TR | | |
| | | | | | | | | | | | | | | 141.57 | 142.33 | 40874 | 0.62 | 1.10 | | |

142.33

E.O.H.

DATE: _____

NORTH AMERICAN METALS CORP
DRILL LOG COVER SHEET

PAGE 1 OF _____

DRILL HOLE # T97DH371 PROJECT AREA LIMESTONE CK SECTION: _____

| DRILL HOLE LOCATION DATA | DRILL DIARY |
|---------------------------------|---|
| EASTING: <u>22244.5E</u> | STARTING DATE: <u>11/07/97</u> (DDMMYYYY) |
| NORTHING: <u>26056.6N</u> | COMPLETION DATE: <u>16/07/97</u> (DDMMYYYY) |
| ELEVATION: <u>1999.78m</u> | LOGGED BY: <u>BAD</u> RIG: <u>ADL300</u> |
| HOLE LENGTH (M): <u>169.16m</u> | CONTRACTOR: <u>ADMINE</u> CORE SIZE: <u>NQ/HQ</u> |

| DOWN HOLE SURVEY DATA | | | SURVEYED BY: <u>NG</u> EDITED BY: _____ | |
|-----------------------|---------------|---------------|---|---------------|
| SURVEY LEVEL | DEPTH | AZIMUTH | DIP (°) | TEST TYPE |
| COLLAR | <u>0</u> | <u>58.75°</u> | <u>-54.92°</u> | <u>SURVEY</u> |
| 1 | <u>21.33</u> | <u>55°</u> | <u>-56°</u> | <u>SPEIRY</u> |
| 2 | <u>37.11</u> | <u>54°</u> | <u>-57.5°</u> | <u>SPEIRY</u> |
| 3 | <u>137.16</u> | <u>56°</u> | <u>-59.5°</u> | <u>SPEIRY</u> |
| 4 | <u>115.55</u> | <u>54°</u> | <u>-59.0°</u> | <u>SPEIRY</u> |
| 5 | | | | |

PURPOSE: _____

| LITHOLOGY SUMMARY | | | | | | | |
|-------------------|---------------|-------------|----------------------|------|----|-----------|---------|
| FROM | TO | ROCK CODE | REMARKS | FROM | TO | ROCK CODE | REMARKS |
| <u>0.00</u> | <u>15.34</u> | <u>CASE</u> | <u>NOT RECOVERED</u> | | | | |
| <u>15.34</u> | <u>21.53</u> | <u>QTZT</u> | | | | | |
| <u>21.53</u> | <u>29.59</u> | <u>MFCA</u> | | | | | |
| <u>29.59</u> | <u>43.17</u> | <u>MFEP</u> | | | | | |
| <u>43.17</u> | <u>46.15</u> | <u>MFAS</u> | | | | | |
| <u>46.15</u> | <u>55.13</u> | <u>MFEP</u> | | | | | |
| <u>55.13</u> | <u>68.88</u> | <u>QTZT</u> | | | | | |
| <u>68.88</u> | <u>72.74</u> | <u>MFCA</u> | | | | | |
| <u>72.74</u> | <u>79.14</u> | <u>QTZT</u> | | | | | |
| <u>79.14</u> | <u>87.80</u> | <u>MFCA</u> | | | | | |
| <u>87.80</u> | <u>91.66</u> | <u>CHRT</u> | | | | | |
| <u>91.66</u> | <u>99.45</u> | <u>QTZT</u> | | | | | |
| <u>99.45</u> | <u>115.82</u> | <u>MFEP</u> | <u>FZ</u> | | | | |
| <u>115.82</u> | <u>132.07</u> | <u>QTZT</u> | <u>FZ</u> | | | | |
| <u>132.07</u> | <u>139.37</u> | <u>DOCH</u> | | | | | |
| <u>139.37</u> | <u>141.93</u> | <u>CHRT</u> | | | | | |
| <u>141.93</u> | <u>156.38</u> | <u>DOCH</u> | | | | | |
| <u>156.38</u> | <u>169.16</u> | <u>LMGT</u> | | | | | |
| | <u>169.16</u> | | <u>EOH</u> | | | | |

COMMENTS: _____

MEMO

TO: Maggie
Exploration Dept.

FROM: Neil Giesbrecht
Engineering Dept.

RE: Sept. 7, 1997 Diamond Drill Hole Survey

The collar coordinates and survey information for diamond drill holes 371 & 370 as observed Sept 7, 1997 are as follows;

| DDH # | Northing | Easting | Elevation | Azimuth | Dip |
|-------|----------|----------|-----------|---------|---------|
| 371 | 26056.64 | 22244.54 | 1899.78 | 58°45' | -54°55' |
| 370 | 26042.22 | 22252.20 | 1898.88 | 60°36' | -53°09' |

If you have any questions, too bad.

GOLDEN BEAR OPERATING COMPANY

MINE ASSAY REPORT (SAMPLES)

DATE: JULY 9, 1997

ASSAYER: [Signature]

| TAG NUMBER | SAMPLE DESCRIPTION | Au g/t | Ag g/t | C % | S % | S % |
|------------|--------------------|--------|--------|-----|-----|-----|
| 40157 | DDH 370 | .34 | | | | |
| 2 | | .51 | | | | |
| 9 | | .27 | | | | |
| 160 | | .86 | | | | |
| 1 | | .10 | | | | |
| 2 | | .21 | | | | |
| 3 | | .07 | | | | |
| 4 | | .17 | | | | |
| 5 | | .38 | | | | |
| 6 | | .10 | | | | |
| 7 | | .07 | | | | |
| 8 | | .10 | | | | |
| 9 | | .03 | | | | |
| 170 | | .10 | | | | |
| 1 | | .48 | | | | |
| 2 | | .10 | | | | |
| 3 | | .10 | | | | |
| 4 | | .07 | | | | |
| 5 | | .17 | | | | |
| 6 | | .31 | | | | |
| 7 | | 2.13 | | | | |
| 8 | | .10 | | | | |
| 9 | | .03 | | | | |
| 180 | | .03 | | | | |
| 40181 | | .10 | | | | |

GOLDEN BEAR OPERATING COMPANY

DATE: JULY 10, 1997

MINE ASSAY REPORT (SAMPLES)

ASSAYER: 6

| TAG NUMBER | SAMPLE DESCRIPTION | Au g/t | Ag g/t | C % | S % | |
|------------|--------------------|--------|--------|-----|-----|--|
| 40182 | DDH | .14 | | | | |
| 3 | | .14 | | | | |
| 4 | | .14 | | | | |
| 5 | | .21 | | | | |
| 6 | | .10 | | | | |
| 7 | | .24 | | | | |
| 8 | | .17 | | | | |
| 9 | | .07 | | | | |
| 190 | | .03 | | | | |
| 1 | | .07 | | | | |
| 2 | | .10 | | | | |
| 3 | | .41 | | | | |
| 4 | | .14 | | | | |
| 5 | | .34 | | | | |
| 6 | | .14 | | | | |
| 197 | | .14 | | | | |
| 40814 | | .27 | | | | |
| 815 | | .14 | | | | |
| 35000 | GRAB | .14 | | | | |

GOLDEN BEAR OPERATING COMPANY
 MINE ASSAY REPORT (SAMPLES)

DATE: JULY 16, 1997
 ASSAYER: D

| TAG NUMBER | SAMPLE DESCRIPTION | Au g/t | Ag g/t | C % | S % | S % |
|------------|--------------------|--------|--------|-----|-----|-----|
| 40801 | DDH | .21 | | | | |
| 2 | | .14 | | | | |
| 3 | | .21 | | | | |
| 4 | | .03 | | | | |
| 5 | | .10 | | | | |
| 6 | | .03 | | | | |
| 7 | | .07 | | | | |
| 8 | | .07 | | | | |
| 9 | | .31 | | | | |
| 40810 | | .21 | | | | |
| 1 | | .14 | | | | |
| 2 | | .17 | | | | |
| 6 | | .21 | | | | |
| 7 | | .10 | | | | |
| 8 | | .14 | | | | |
| 9 | | .07 | | | | |
| 820 | | .07 | | | | |
| 1 | | .07 | | | | |
| 2 | | .03 | | | | |
| 3 | | .07 | | | | |
| 4 | | .10 | | | | |
| 40825 | | .07 | | | | |

GOLDEN BEAR OPERATING COMPANY

DATE: Dec 11, 1967

MINE ASSAY REPORT (SEE SAMPLES)

ASSAYER: [Signature]

| TAG NUMBER | SAMPLE DESCRIPTION | Au g/t | Ag g/t | C % | S % | S % |
|------------|--------------------|--------|--------|------------------|-----|-----|
| 35101 | | 51.57 | ✓ | } BAD | | |
| 2 | | .14 | ✓ | | | |
| 3 | | .34 | ✓ | | | |
| 35104 | | .10 | ✓ | | | |
| 37678 | | 13.71 | ✓ | } APH area | | |
| 40051 | | .69 | ✓ | | | |
| 2 | | .07 | ✓ | | | |
| 3 | | .10 | ✓ | | | |
| 4 | | .07 | ✓ | } APH | | |
| 40055 | | .24 | ✓ | | | |
| 40819 | | .14 | ✓ | } 370 | | |
| 40840 | | .89 | ✓ | | | |
| 40200 | | .89 | ✓ | } DDH 370 checks | | |
| " | | .93 | ✓ | | | |

n

GOLDEN BEAR OPERATING COMPANY
 MINE ASSAY REPORT (SAMPLES)

DATE: July 11, 1997
 ASSAYER: D/GC

| TAG NUMBER | SAMPLE DESCRIPTION | Au g/t | Ag g/t | C % | S % | |
|------------|--------------------|--------|--------|-----|-----|--|
| 40851 | DDH | .31 | | | | |
| 2 | | .10 | | | | |
| 3 | | TR | | | | |
| 4 | | TR | | | | |
| 5 | | TR | | | | |
| 6 | | .14 | | | | |
| 7 | | .07 | | | | |
| 8 | | TR | | | | |
| 40860 | | .07 | | | | |
| 1 | | TR | | | | |
| 2 | | .24 | | | | |
| 3 | | .14 | | | | |
| 4 | | .17 | | | | |
| 5 | | .10 | | | | |
| 6 | | .07 | | | | |
| 7 | | TR | | | | |
| 8 | | .07 | | | | |
| 9 | | .03 | | | | |
| 40870 | | .27 | | | | |
| 40198 | | .17 | | | | |
| 9 | | .07 | | | | |
| 40200 | | .07 | | | | |

| TAG NUMBER | SAMPLE DESCRIPTION | Au g/t | Ag g/t | C % | S % | S % |
|------------------|--------------------|--------|-----------|-----------|-----|-----|
| 40848 | DDH | .31 | } DDH 370 | | | |
| 9 | | TR | | | | |
| 50 | | .03 | | | | |
| 40871 | | .10 | | | | |
| 40872 | | TR | | | | |
| 3 | | TR | | | | |
| 4 | | 1.10 | | | | |
| 5 | | .10 | | | | |
| 6 | | TR | | | | |
| 7 | | TR | | } DDH 370 | | |
| 8 | | .07 | | | | |
| 9 | | .10 | | | | |
| 40880 | | .96 | | | | |
| 1 | | .89 | | | | |
| 2 | | TR | | | | |
| 3 | | .31 | | | | |
| 4 | | .10 | | | | |
| 5 | | .10 | | | | |
| 6 | | .17 | | | | |
| 7 | | .10 | | | | |
| 8 | | TR | | | | |
| 9 | | TR | | | | |
| 40890 | | TR | | | | |

NORTH AMERICAN METALS CORP
 GEOTECHNICAL LOGGING SHEET

DDH T97 DDH 370
 PAGE 1 of 3

| FROM (m) | TO (m) | RECOVERY (m) | PCD (m) | HARDNESS R | FRACTURE INTENSITY |
|-------------|-----------|-----------------|------------|---------------|-----------------------|
| 0 | 13.99 | 0 | 1 | 1 | 1 |
| 13.99 | 14.02 | 1.03 | 0 | 4 | 9 |
| 14.02 | 15.54 | 0.82 | 0 | 4 | 9 |
| 15.54 | 16.15 | 0.59 | 0 | 3 | 9 |
| 16.15 | 17.53 | 1.07 | 0 | 4 | 9 |
| 17.53 | 18.59 | 1.27 | 0.44 | 2 | 8 |
| 18.59 | 20.27 | 1.63 | 0.18 | 1 | 6 |
| 20.27 | 22.10 | 1.70 | 0.53 | 3 | 8 |
| 22.10 | 23.77 | 1.52 | 0.41 | 1 | 4 |
| 23.77 | 25.30 | 1.39 | 0 | 0 | 9 |
| 25.30 | 26.52 | 1.44 | 0 | 0 | 9 |
| 26.52 | 28.24 | 1.15 | 0.35 | 2 | 9 |
| 28.24 | 29.87 | 1.12 | 0 | 2 | 9 |
| 29.87 | 31.39 | 1.20 | 0 | 2 | 9 |
| 31.39 | 32.92 | 0.20 | 0 | 4 | 9 |
| 32.92 | 33.22 | 0.20 | 0 | 4 | 9 |
| 33.22 | 33.83 | 0.35 | 0 | 3 | 9 |
| 33.83 | 34.44 | 0.167 | 0.24 | 2 | 8 |
| 34.44 | 35.96 | 1.41 | 0.43 | 2 | 4 |
| 35.96 | 37.49 | 1.51 | 0.95 | 2 | 2 |
| 37.49 | 39.01 | 1.52 | 0.53 | 1 | 3 |
| 39.01 | 40.53 | 1.51 | 1.06 | 1 | 3 |
| 40.53 | 42.06 | 1.60 | 0.94 | 2 | 2 |
| 42.06 | 43.58 | 1.50 | 0.53 | 2 | 2 |
| 43.58 | 45.11 | 1.51 | 0.20 | 2 | 6 |
| 45.11 | 46.63 | 1.69 | 0 | 2 | 7 |
| 46.63 | 48.16 | 1.48 | 0.20 | 2 | 6 |
| 48.16 | 49.67 | 1.67 | 0.58 | 3 | 6 |
| 49.67 | 51.20 | 1.45 | 0.60 | 3 | 5 |
| 51.20 | 52.73 | 1.32 | 0.88 | 2 | 5 |
| 52.73 | 54.25 | 1.55 | 0.42 | 2 | 3 |
| 54.25 | 55.76 | 1.63 | 0.14 | 1 | 6 |
| 55.76 | 57.30 | 1.36 | 0.69 | 0 | 8 |

| FROM (m) | TO (m) | RECOVERY (%) | RQD (%) | HARDNESS R | FRACTURE INTENSITY |
|-------------|-----------|-----------------|------------|---------------|-----------------------|
| 57.30 | 58.82 | 1.55 | 0.44 | 2 | 2 |
| 58.82 | 60.34 | 1.50 | 0.40 | 1 | 3 |
| 60.34 | 61.87 | 1.55 | 0.30 | 1 | 5 |
| 61.87 | 63.39 | 1.35 | 0.54 | 3 | 1 |
| 63.39 | 64.92 | 1.51 | 0.74 | 2 | 2 |
| 64.92 | 66.44 | 1.48 | 0.46 | 1 | 5 |
| 66.44 | 67.96 | 1.48 | 0.17 | 0 | 3 |
| 67.96 | 69.49 | 1.42 | 0 | 1 | 6 |
| 69.49 | 71.01 | 1.49 | 0 | 3 | 4 |
| 71.01 | 72.54 | 1.35 | 0 | 3 | 4 |
| 72.54 | 74.06 | 1.52 | 0 | 3 | 3 |
| 74.06 | 75.59 | 1.45 | 0 | 3 | 3 |
| 75.59 | 77.11 | 1.50 | 0 | 3 | 5 |
| 77.11 | 78.63 | 1.51 | 0 | 3 | 5 |
| 78.63 | 80.15 | 1.50 | 0 | 3 | 6 |
| 80.15 | 81.68 | 1.50 | 0 | 3 | 8 |
| 81.68 | 83.21 | 1.19 | 0.53 | 3 | 7 |
| 83.21 | 84.73 | 1.50 | 0.20 | 3 | 9 |
| 84.73 | 86.25 | 1.60 | 0.20 | 3 | 9 |
| 86.25 | 87.78 | 1.55 | 0.30 | 3 | 9 |
| 87.78 | 89.30 | 1.41 | 0.13 | 2 | 9 |
| 89.30 | 90.91 | 0.43 | 0 | 0 | 9 |
| 90.91 | 92.35 | 1.50 | 0.59 | 2 | 8 |
| 92.35 | 93.87 | 1.52 | 0.88 | 3 | 1 |
| 93.87 | 95.40 | 1.45 | 0.18 | 3 | 7 |
| 95.40 | 96.01 | 0.60 | 0 | 3 | 7 |
| 96.01 | 96.92 | 0.60 | 0 | 4 | 8 |
| 96.92 | 97.83 | 0.70 | 0 | 4 | 8 |
| 97.83 | 98.44 | 0.50 | 0 | 4 | 8 |
| 98.44 | 99.97 | 1.40 | 0 | 4 | 7 |
| 99.97 | 100.42 | 0.05 | 0 | 4 | 8 |
| 100.42 | 101.49 | 1.35 | 0.25 | 4 | 6 |
| 101.49 | 103.02 | 0.95 | 0 | 4 | 7 |
| 103.02 | 103.32 | 0.32 | 0 | 4 | 7 |

REVISED
TO N2

NORTH AMERICAN METALS CORP
LITHOLOGY LOGGING SHEET

Logged by: BAD

DDH 797DH371

Date: JULY 12, 1997

PAGE 1 OF 8

| FROM | TO | FLAG | ROCK CODE | COLO | TEXT 1 | TEXT 2 | TEXT 3 | TEXT 4 | STRUC INT | ALTN INT | MINERALIZATION MINERAL // HOW // AMOUNT | STRUCTURE | | FROM | TO | SAMPLE# | RECOV | AU GT | S% | |
|-------|-------|------|-----------|----------|--|--------|--------|--------|-----------|----------|--|-----------|---------|-------|-------|---------|-------|-------|----|--|
| | | | | | | | | | | | | DIST | FT/THAN | | | | | | | |
| 0.00 | 15.34 | | CASE | | | | | | | | | | | | | | | | | |
| | | | | | <i>- not recovered.</i> | | | | | | | | | | | | | | | |
| 15.34 | 29.53 | | QTZT W | MS GO BX | | | | | 20 | 16 | | 15.91 | | 15.34 | 16.34 | 40875 | 1.00 | 0.10 | | |
| | | | | | <i>very fine grained, massive milky white quartzite, strongly gouged (orange to dark brown muddy clay gouge) and brecciated to gravel sized pieces, rare competent core up to 30 cm long, local beds of MIFSA: GOVGE 15.91-17.68, 19.05-20.01, 22.56-23.97, 24.00-24.95, 26.00-26.82</i> | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 19.05 | | 16.34 | 17.34 | 40876 | 1.00 | TR | | |
| | | | | | | | | | | | | 22.56 | | 17.34 | 18.34 | 40877 | 1.00 | TR | | |
| | | | | | | | | | | | | 24.09 | | 18.34 | 19.34 | 40878 | 1.00 | 0.07 | | |
| | | | | | | | | | | | | 26.00 | | 19.34 | 20.34 | 40879 | 1.06 | 0.10 | | |
| | | | | | | | | | | | | | | 20.34 | 21.34 | 40881 | 0.94 | 0.89 | | |
| | | | | | | | | | | | | | | 21.34 | 22.34 | 40882 | 0.76 | TR | | |
| | | | | | | | | | | | | | | 22.34 | 23.34 | 40883 | 0.70 | 0.31 | | |
| | | | | | | | | | | | | | | 23.47 | 24.34 | 40891 | 0.80 | TR | | |
| | | | | | | | | | | | | | | 24.47 | 25.34 | 40884 | 0.77 | 0.10 | | |
| | | | | | | | | | | | | | | 25.47 | 26.34 | 40885 | 1.04 | 0.10 | | |
| | | | | | | | | | | | | | | 26.47 | 27.47 | 40886 | 0.70 | 0.17 | | |
| | | | | | | | | | | | | | | 27.47 | 28.53 | 40887 | 0.84 | 0.10 | | |
| | | | | | | | | | | | | | | 28.53 | 29.53 | 40888 | 0.84 | TR | | |

0.96
STANDARD
40880

NORTH AMERICAN METALS CORP
LITHOLOGY LOGGING SHEET

Logged by: BAD

DDH T97DH371

Date: JULY 12, 1997

PAGE 2 OF 8

| FROM | TO | FLAG | ROCK CODE | COLO | TEXT 1 | TEXT 2 | TEXT 3 | TEXT 4 | STRUC INT | ALTN INT | MINERALIZATION MINERAL // HOW // AMOUNT | STRUCTURE | | FROM | TO | SAMPLE# | RECOV | AU G/T | S% |
|--|-------|------|-----------|------|--------|--------|--------|--------|-----------|----------|--|-----------|-----------|-------|-------|---------|-------|--------|----|
| | | | | | | | | | | | | DIST | FT/TH/WAN | | | | | | |
| 29.53 | 34.59 | | MFA TA | GO | CR | BD | | | 28 | 18 | | 30.97 | 60/6/- | 29.53 | 30.53 | 40889 | 0.90 | TR | |
| * a box from this interval was dropped + reloaded. | | | | | | | | | | | fine grained light grey to pale tan carbonate altered mafic to leucocratic, phyllic + clayey | 31.85 | 60/5/- | 30.53 | 31.53 | 40890 | 0.72 | TR | |
| | | | | | | | | | | | 30.97-31.53, 31.85-32.10, 33.08-34.59, crushed | 33.08 | 60/6/- | 31.53 | 32.53 | 40892 | 0.56 | 0.03 | |
| | | | | | | | | | | | texture, locally thin bedded @ 50° TCA, QTZ | 29.66 | BD/0/50 | 32.53 | 33.53 | 40893 | 0.90 | 0.07 | |
| | | | | | | | | | | | bed from 29.92-30.22 | 32.70 | BD/0/50 | 33.53 | 34.59 | 40894 | 0.78 | 0.14 | |
| | | | | | | | | | | | | 31.58 | -1/1/50 | | | | | | |
| 34.59 | 43.17 | | MFER VA | BD | VN | SH | | | 14 | 12 | | 35.66 | 60/3/1- | 34.59 | 37.59 | 40895 | 0.85 | 0.07 | |
| | | | | | | | | | | | fine grained, well bedded, dark green-grey + red brown mafic speckled volcanics | 36.63 | BD/3/55 | 35.59 | 36.59 | 40896 | 1.00 | 0.10 | |
| | | | | | | | | | | | beds < 1.0m, thin bedded @ 55° TCA, calcite veins < 5mm wide one every 10cm @ var TCA, qtz patches 36.16-36.36, locally sheared and lightly gouged. | 39.84 | CV/1/50 | 36.59 | 37.59 | 40897 | 0.99 | 0.10 | |
| | | | | | | | | | | | | 47.95 | SH/5/- | 37.59 | 38.59 | 40898 | 1.01 | TR | |
| | | | | | | | | | | | | | | 38.59 | 39.59 | 40899 | 1.00 | TR | |
| | | | | | | | | | | | | | | 39.59 | 40.59 | 40901 | 1.03 | 0.14 | |
| | | | | | | | | | | | | | | 40.59 | 41.89 | 40902 | 1.23 | TR | |
| | | | | | | | | | | | | | | 41.89 | 43.17 | 40903 | 1.30 | TR | |
| 43.17 | 46.15 | | MFA S | GT | FO | MS | BD | VN | IZ | 14 | | | | 43.17 | 44.15 | 40904 | 0.92 | 0.34 | |
| | | | | | | | | | | | fine grained, light green-tan, moderately bedded mafic volcanic stuff, massive to strongly foliated, locally interbedded with MFER, calcite veins 2mm to 5mm thick one every 30-50 cm. | | | 44.15 | 45.15 | 40905 | 0.94 | TR | |
| | | | | | | | | | | | | | | 45.15 | 46.15 | 40906 | 1.04 | 0.07 | |

TR
40900
BLANK

NORTH AMERICAN METALS CORP
LITHOLOGY LOGGING SHEET

Logged by: BAD

DDH T97DH371

Date: JULY 13, 1997

PAGE 3 OF 8

| FROM | TO | FLAG | ROCK CODE | COLO | TEXT 1 | TEXT 2 | TEXT 3 | TEXT 4 | STRUC INT | ALTN INT | MINERALIZATION MINERAL // HOW // AMOUNT | STRUCTURE | | FROM | TO | SAMPLE# | RECOV | AU GT | % |
|-------|-------|------|-----------|------|--------|--------|--------|--------|-----------|----------|--|-----------|---------|-------|-------|---------|-------|-------|---|
| | | | | | | | | | | | | DIST | FT/THAN | | | | | | |
| 46.15 | 55.13 | | MPEP GA | BD | SH | VN | | | 14 | 0 | HE/S/PV // LI/S/PV | 51.56 | SH/61- | 46.15 | 47.15 | 40907 | 0.94 | 0.07 | |
| | | | | | | | | | | | | 46.40 | SH/41- | 47.15 | 48.15 | 40908 | 1.00 | 0.07 | |
| | | | | | | | | | | | | 46.89 | QC/4/30 | 48.15 | 49.15 | 40909 | 0.95 | 0.10 | |
| | | | | | | | | | | | | | | 49.15 | 50.15 | 40910 | 1.02 | tr | |
| | | | | | | | | | | | | | | 50.15 | 51.15 | 40911 | 1.05 | 0.03 | |
| | | | | | | | | | | | | | | 51.15 | 52.15 | 40912 | 1.03 | tr | |
| | | | | | | | | | | | | | | 52.15 | 53.15 | 40913 | 0.96 | 0.10 | |
| | | | | | | | | | | | | | | 53.15 | 54.15 | 40914 | 0.97 | tr | |
| | | | | | | | | | | | | | | 54.15 | 55.13 | 40915 | 1.01 | 0.03 | |
| 55.13 | 68.88 | | QTZT WB | BD | SH | VN | | | 16 | 14 | | 65.59 | 60/41- | 55.13 | 56.15 | 40916 | 1.02 | 0.03 | |
| | | | | | | | | | | | | 61.09 | CV/11- | 56.15 | 57.15 | 40917 | 0.98 | 0.10 | |
| | | | | | | | | | | | | 67.15 | CV/11- | 57.15 | 58.15 | 40918 | 0.98 | 0.07 | |
| | | | | | | | | | | | | | | 58.15 | 59.15 | 40919 | 1.02 | 0.03 | |
| | | | | | | | | | | | | | | 59.15 | 60.15 | 40921 | 0.99 | tr | |
| | | | | | | | | | | | | | | 60.15 | 61.15 | 40922 | 1.03 | 0.07 | |
| | | | | | | | | | | | | | | 61.15 | 62.15 | 40923 | 0.99 | tr | |
| | | | | | | | | | | | | | | 62.15 | 63.15 | 40924 | 0.87 | 0.14 | |
| | | | | | | | | | | | | | | 63.15 | 64.15 | 40925 | 1.15 | 0.07 | |
| | | | | | | | | | | | | | | 64.15 | 65.15 | 40926 | 0.95 | 0.10 | |
| | | | | | | | | | | | | | | 65.15 | 66.15 | 40927 | 0.94 | tr | |
| | | | | | | | | | | | | | | 66.15 | 67.15 | 40928 | 1.00 | 0.03 | |
| | | | | | | | | | | | | | | 67.15 | 68.15 | 40929 | 0.99 | 0.03 | |
| | | | | | | | | | | | | | | 68.15 | 68.88 | 40930 | 0.73 | 0.07 | |

fine grained, well bedded, thinly laminated, dark green-gray and red-brown mafic epiclastic volcanics in narrow beds of MPAS and quartzite. Observed in local gorges, lens + thin alteration from 51.56-53.59m, calcite veins 2mm - 2cm thick ore every 30cm, gty-calcite vein 18cm thick at 46.89, locally altered + slightly gorged.

fine grained, light gray/blue and white, well bedded quartzite, beds @ 60 TCA, 2mm to 5cm thick. Strongly altered and locally gorged (continuity ↑ downhole), calcite veins 2-10mm ore every 10cm @ narrow TCA.

0.96
STANDARD
40920

NORTH AMERICAN METALS CORP
LITHOLOGY LOGGING SHEET

Logged by: BAD

DDH T97DH371

Date: JULY 13, 1997

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| FROM | TO | FLAG | ROCK CODE | COLO | TEXT 1 | TEXT 2 | TEXT 3 | TEXT 4 | STRUC INT | ALTN INT | MINERALIZATION MINERAL // HOW // AMOUNT | STRUCTURE | | FROM | TO | SAMPLE# | RECOV | AU/GT | S% |
|-------|-------|------|-----------|------|--|--------|--------|--------|-----------|----------|---|-----------|----------|-------|-------|---------|-------|-------|----|
| | | | | | | | | | | | | DIST | FT/TH/AN | | | | | | |
| 68.88 | 72.74 | | MFA | 50 | M5 | 60 | VN | | 18 | 16 | L/PV/20 // NE/PV/10 | 71.40 | QV/3/- | 68.88 | 69.88 | 40931 | 1.01 | 0.07 | |
| | | | | | massive, fine grained, orange to reddish orange brown, coarse aligned mafic volcanic (probably MPAS?), strongly gneissed from 71.84-73.44, calcite veins 1-5mm and every 10-20cm, some quartzite beds (L10cm thick). | | | | | | | | | | | | | | |
| 72.74 | 79.14 | | QTZ | WB | BD | VN | ET | BX | 16 | 16 | | 72.74 | SH/4/- | 72.74 | 73.74 | 40935 | 0.95 | 0.10 | |
| | | | | | fine grained, blue to white, well bedded @ narrow & TCA, calcite veins 1-10cm or >TCA, are every 5-10cm, locally etched, locally brecciated + silicified, locally strongly broken. | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 73.76 | SH/4/- | 73.74 | 74.74 | 40936 | 1.00 | 0.14 | |
| | | | | | | | | | | | | 74.63 | SH/5/- | 74.74 | 75.74 | 40937 | 0.96 | 0.14 | |
| | | | | | | | | | | | | 76.90 | SH/5/- | 75.74 | 76.74 | 40938 | 0.93 | 0.10 | |
| | | | | | | | | | | | | 73.20 | CV/1/- | 76.74 | 77.45 | 40939 | 1.01 | 0.34 | |
| | | | | | | | | | | | | 76.59 | CV/1/- | 77.45 | 79.14 | 40941 | 0.98 | 0.07 | |
| 79.14 | 87.80 | | MFA | BT | BD | VN | CR | SH | 14 | 18 | | 85.95 | CV/1/30 | 79.14 | 81.14 | 40942 | 0.78 | 0.07 | |
| | | | | | fine grained light tan to blue, bleached + quartz rich, sandy coarse aligned mafic volcanic (probably = MPAS?), poorly to well bedded @ var & TCA, beds typically 4-10cm thick, locally interbedded in light to dark blue quartzite beds, gray calcite veins 2-5mm thick from 10% of unit, crumbled + locally brecciated textures, locally strongly broken, locally vuggy. | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 85.95 | BD/2/60 | 80.14 | 81.14 | 40943 | 1.15 | 0.03 | |
| | | | | | | | | | | | | 86.40 | 60/4/- | 81.14 | 82.14 | 40944 | 0.98 | 0.17 | |
| | | | | | | | | | | | | 83.55 | QV/1/- | 82.14 | 83.14 | 40945 | 0.92 | 0.10 | |
| | | | | | | | | | | | | | | 83.14 | 84.14 | 40946 | 0.95 | 0.14 | |
| | | | | | | | | | | | | | | 84.14 | 85.14 | 40947 | 1.19 | 0.07 | |
| | | | | | | | | | | | | | | 85.14 | 86.45 | 40948 | 1.06 | 0.14 | |
| | | | | | | | | | | | | | | 86.45 | 87.80 | 40949 | 0.82 | 0.10 | |

0.03
BLANK
40940

NORTH AMERICAN METALS CORP
LITHOLOGY LOGGING SHEET

Logged by: BAD

DDH 797D/1371

Date: JULY 14 1997

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| FROM | TO | FLAG | ROCK CODE | COLO | TEXT 1 | TEXT 2 | TEXT 3 | TEXT 4 | STRUC INT | ALTN INT | MINERALIZATION MINERAL // HOW // AMOUNT | STRUCTURE | | FROM | TO | SAMPLE# | RECOV | AU G/T | S% | | | | | | |
|--------|--------|------|-----------|------|---|--------|--------|--------|-----------|----------|---|-----------|----------|--------|--------|---------|-------|--------|----|--|--|--|--|--|--|
| | | | | | | | | | | | | DIST | FT/TH/AN | | | | | | | | | | | | |
| 87.80 | 91.66 | | CHRT | BA | BD | SH | ET | | 26 | 14 | | | | 87.80 | 88.80 | 40950 | 0.59 | 0.31 | | | | | | | |
| | | | | | ophanitic dark blue grey chert interbedded with medium grey fine grained sandstone (~25%) and MFCN (~5%), well bedded 2-10m beds, strongly broken, locally gassy, MFCN is veined. | | | | | | | | | | | | | | | | | | | | |
| 91.66 | 99.45 | | GIZI | WO | BD | MS | SH | GO | 28 | 12 | | 9788 | BD/3/60 | 91.66 | 92.81 | 40953 | 0.60 | 0.24 | | | | | | | |
| | | | | | fine grained white to 80% orange limonite stained quartzite, well bedded to massive, strongly sheared and locally gassed. | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 96.40 | GO/4/- | 92.81 | 94.33 | 40954 | 0.98 | 0.14 | | | | | | | |
| | | | | | | | | | | | | 97.02 | GO/5/- | 94.33 | 96.92 | 40955 | 1.30 | 0.14 | | | | | | | |
| | | | | | | | | | | | | | | 96.92 | 98.00 | 40956 | 0.86 | 0.17 | | | | | | | |
| | | | | | | | | | | | | | | 98.00 | 99.45 | 40963 | 0.95 | 0.10 | | | | | | | |
| 99.45 | 104.75 | | MSEP | BA | BD | VN | VG | | 12 | 14 | | 103.35 | FR/0/60 | 99.45 | 100.45 | 40957 | 1.00 | 0.10 | | | | | | | |
| | | | | | fine grained light to dark blue grey gty rich mafic epiclastic volcanics, well bedded | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 99.69 | FR/0/60 | 100.45 | 101.45 | 40958 | 0.87 | 0.07 | | | | | | | |
| | | | | | | | | | | | | 99.69 | BD/2/60 | 101.45 | 102.45 | 40959 | 0.82 | 0.14 | | | | | | | |
| | | | | | | | | | | | | | | 102.45 | 103.45 | 40961 | 1.00 | 0.27 | | | | | | | |
| | | | | | | | | | | | | | | 103.75 | 104.75 | 40962 | 1.00 | 0.17 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 104.75 | 115.82 | | FR | MSEP | AT | GO | SH | BD | | 29 | 12 | 108.26 | GO/6/- | 104.75 | 106.07 | 40964 | 0.66 | 0.24 | | | | | | | |
| | | | | | medium to light blue grey, fine grained mafic quartzites is a strong quartz component, sheared and broken to tan-brown, gritty clay coatings, strongly gassed from | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 109.67 | GO/6/- | 106.07 | 107.59 | 40965 | 0.52 | 0.17 | | | | | | | |
| | | | | | | | | | | | | 112.05 | GO/5/- | 107.59 | 108.42 | 40966 | 0.70 | 0.17 | | | | | | | |
| | | | | | | | | | | | | | | 108.42 | 109.42 | 40967 | 0.95 | 0.07 | | | | | | | |
| | | | | | | | | | | | | | | 109.42 | 111.55 | 40968 | 1.19 | 0.10 | | | | | | | |
| | | | | | | | | | | | | | | 111.55 | 112.55 | 40969 | 0.99 | 0.03 | | | | | | | |
| | | | | | | | | | | | | | | 112.55 | 113.08 | 40970 | 0.53 | CR | | | | | | | |
| | | | | | | | | | | | | | | 113.08 | 115.82 | 40971 | 0.40 | 0.21 | | | | | | | |

0.99
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40960

NORTH AMERICAN METALS CORP
LITHOLOGY LOGGING SHEET

Logged by: BAD

DDH T97DH/371

Date: JULY 15, 1997

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| FROM | TO | FLAG | ROCK CODE | COLO | TEXT 1 | TEXT 2 | TEXT 3 | TEXT 4 | STRUC INT | ALTN INT | MINERALIZATION MINERAL // HOW // AMOUNT | STRUCTURE | | FROM | TO | SAMPLE# | RECOV | AU GT | S% | | | | |
|--------|--------|------|-----------|------|--|--------|--------|--------|-----------|----------|---|-----------|----------|--------|--------|---------|-------|-------|----|--|--|--|--|
| | | | | | | | | | | | | DIST | FT/TH/AN | | | | | | | | | | |
| 139.37 | 141.93 | | CHRT 3A | | MS | CR | VN | | 12 | 29 | | 140.19 | CU/1/- | 139.37 | 140.51 | 40989 | 1.20 | 0.21 | | | | | |
| | | | | | gadolinite, dark grey, massive, cracked chert, locally interbedded in light grey DOCH, calcite veins <1cm thick one every 15-20cm @ various TCA. | | | | | | | | | | | | | | | | | | |
| 141.93 | 156.38 | | DOCH 4A | | MS | CR | VN | BD | 12 | 14 | | 144.29 | CU/3/- | 141.93 | 142.93 | 40991 | 0.93 | 0.24 | | | | | |
| | | | | | massive, fine grained, cracked to lightly brecciated, light to medium blue-grey dolomite in pale yellow alteration on fractures, entire unit bleached to very pale yellow | | | | | | | | | | | | | | | | | | |
| | | | | | 143.20-146.13, 155.14-156.38, calcite + quartz veins 5mm to 6 cm thick, one every 10-30 cm, local interbeds of dark grey chert, brecciated (149.13-149.93), minor gouge (154.84-154.90, sharp lower contact @ 60° TCA. | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 145.19 | QU/3/- | 142.93 | 143.93 | 40992 | 1.03 | 0.34 | | | | | |
| | | | | | | | | | | | | 156.38 | LC/0/60 | 143.93 | 144.93 | 40993 | 1.05 | 0.21 | | | | | |
| | | | | | | | | | | | | | | 144.93 | 145.93 | 40994 | 0.98 | 0.14 | | | | | |
| | | | | | | | | | | | | | | 145.93 | 146.93 | 40995 | 0.97 | 0.10 | | | | | |
| | | | | | | | | | | | | | | 146.93 | 147.93 | 40996 | 1.00 | TR | | | | | |
| | | | | | | | | | | | | | | 147.93 | 148.93 | 40997 | 1.00 | TR | | | | | |
| | | | | | | | | | | | | | | 148.93 | 149.93 | 40998 | 0.70 | 0.09 | | | | | |
| | | | | | | | | | | | | | | 149.93 | 150.93 | 40999 | 1.05 | 0.14 | | | | | |
| | | | | | | | | | | | | | | 150.93 | 151.93 | 40201 | 0.98 | 0.03 | | | | | |
| | | | | | | | | | | | | | | 151.93 | 152.93 | 40202 | 0.91 | 0.10 | | | | | |
| | | | | | | | | | | | | | | 152.93 | 153.93 | 40203 | 0.97 | TR | | | | | |
| | | | | | | | | | | | | | | 153.93 | 154.93 | 40204 | 1.00 | TR | | | | | |
| | | | | | | | | | | | | | | 154.93 | 156.38 | 40205 | 1.53 | 0.24 | | | | | |

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41000
STANDARD

NORTH AMERICAN METALS CORP
LITHOLOGY LOGGING SHEET

Logged by: BAD

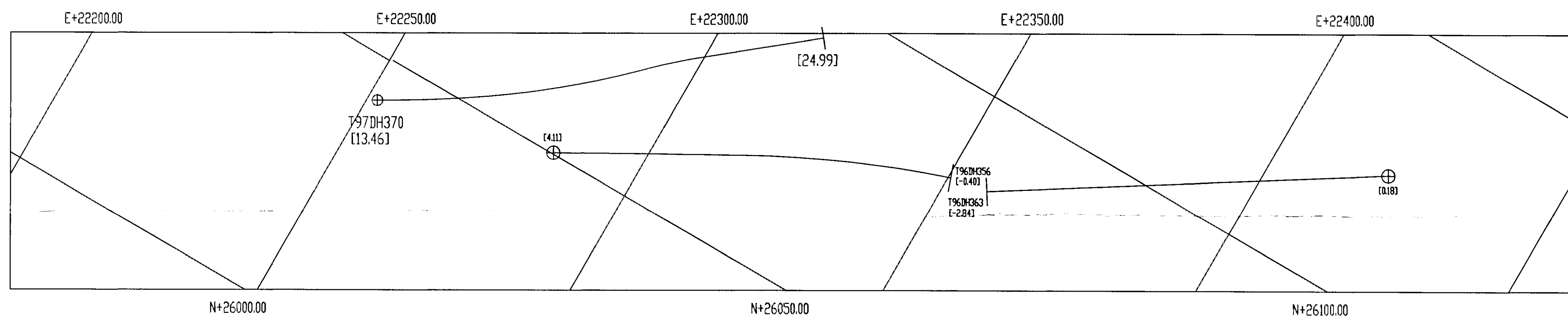
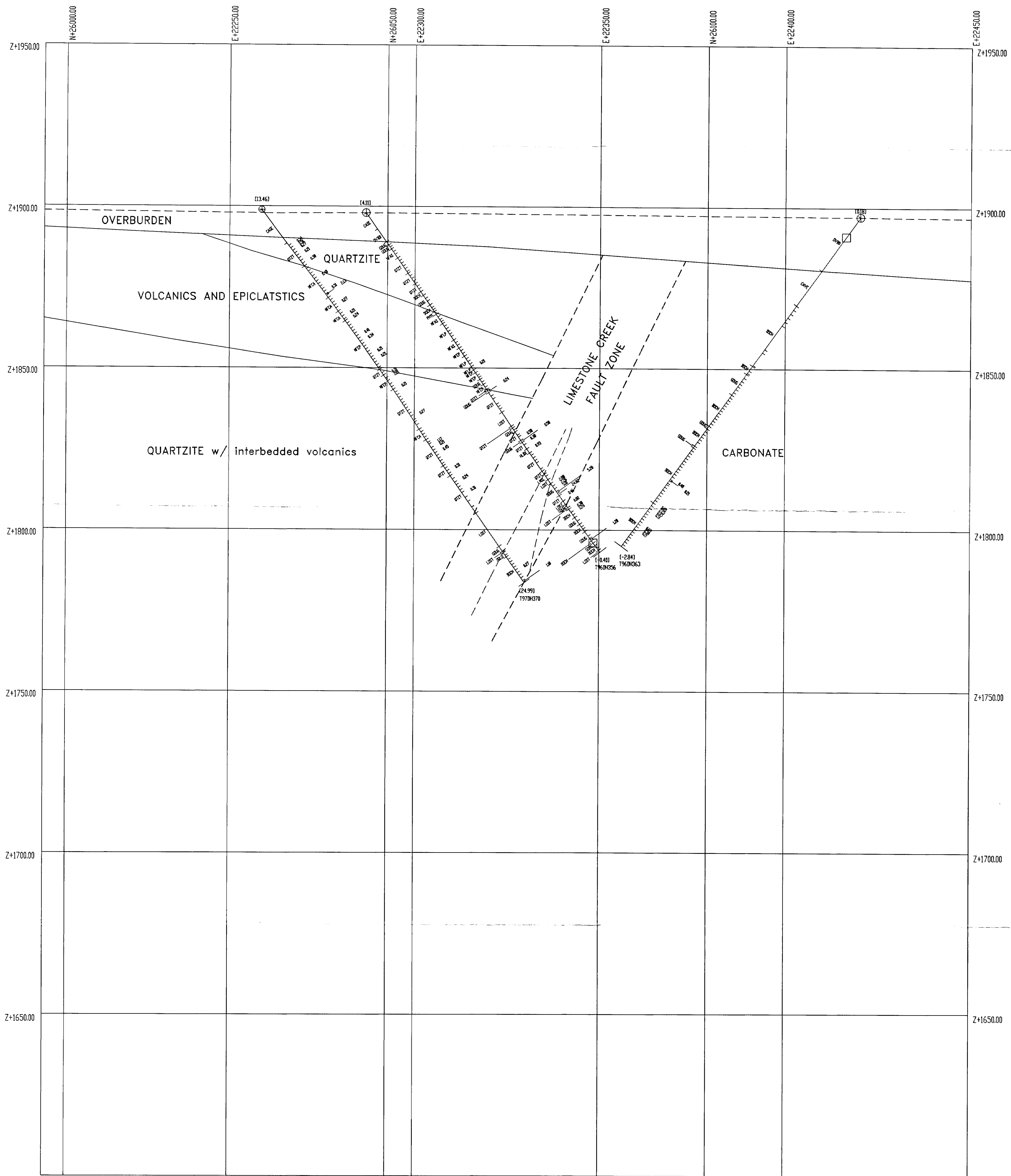
DDH 797DH/371

Date: JULY 17, 1997

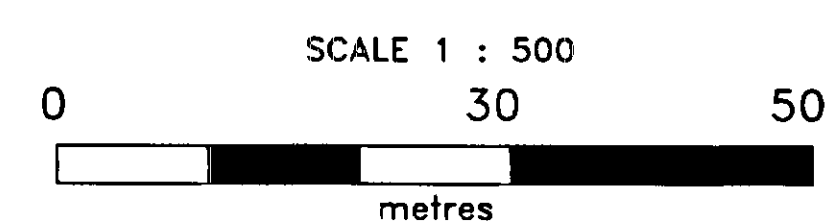
PAGE 8 OF 8

| FROM | TO | FLAG | ROCK CODE | COLO | TEXT 1 | TEXT 2 | TEXT 3 | TEXT 4 | STRUC INT | ALTN INT | MINERALIZATION MINERAL // HOW // AMOUNT | STRUCTURE | | FROM | TO | SAMPLE# | RECOV | AU/GT | S% |
|--------|--------|------|-----------|------|--------|--------|--------|--------|-----------|----------|---|-----------|---------|--------|--------|---------|-------|-------|----|
| | | | | | | | | | | | | DIST | FT/TWAN | | | | | | |
| 156.38 | 169.16 | | LM6T | 2A | VN | BD | | | 14 | 12 | HE/FR/3 | | | 156.38 | 157.38 | 40206 | 0.97 | tr | |
| | | | | | | | | | | | | | | 157.38 | 158.38 | 40207 | 0.93 | 0.10 | |
| | | | | | | | | | | | | | | 158.38 | 159.38 | 40208 | 0.89 | tr | |
| | | | | | | | | | | | | | | 159.38 | 160.38 | 40209 | 1.16 | tr | |
| | | | | | | | | | | | | | | 160.38 | 161.23 | 40210 | 0.93 | 0.10 | |
| | | | | | | | | | | | | | | 161.23 | 162.38 | 40211 | 0.94 | 0.10 | |
| | | | | | | | | | | | | | | 162.38 | 163.38 | 40212 | 0.90 | 0.03 | |
| | | | | | | | | | | | | | | 163.38 | 164.38 | 40213 | 1.09 | 0.10 | |
| | | | | | | | | | | | | | | 164.38 | 165.38 | 40214 | 0.82 | 0.03 | |
| | | | | | | | | | | | | | | 165.38 | 166.38 | 40215 | 0.85 | 0.03 | |
| | | | | | | | | | | | | | | 166.38 | 167.38 | 40216 | 1.00 | tr | |
| | | | | | | | | | | | | | | 167.38 | 168.38 | 40217 | 0.83 | 0.03 | |
| | | | | | | | | | | | | | | 168.38 | 169.16 | 40218 | 0.93 | 0.03 | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 169.16 | 169.16 | | E.O.H. | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

very fine grained, very dark grey, thinly bedded graphitic limestone, strongly veined (calcite) 5mm - 5cm thick (locally comprise 10% of core), interbeds of DOCH and very dark grey chert. Locally strongly laminaritic coatings along fractures, locally very lightly etched (161.23-161.42, 162.84-163.25, 165.88-166.18, 167.18-167.31, 158.78-158.90), entire unit is moderately broken.



25, 315



SECTION THICKNESS = 40 metres
DIRECTION 060°
DRILL HOLE LITHOLOGIES & AU ASSAYS

NORTH AMERICAN METALS CORP.
GOLDEN BEAR MINE

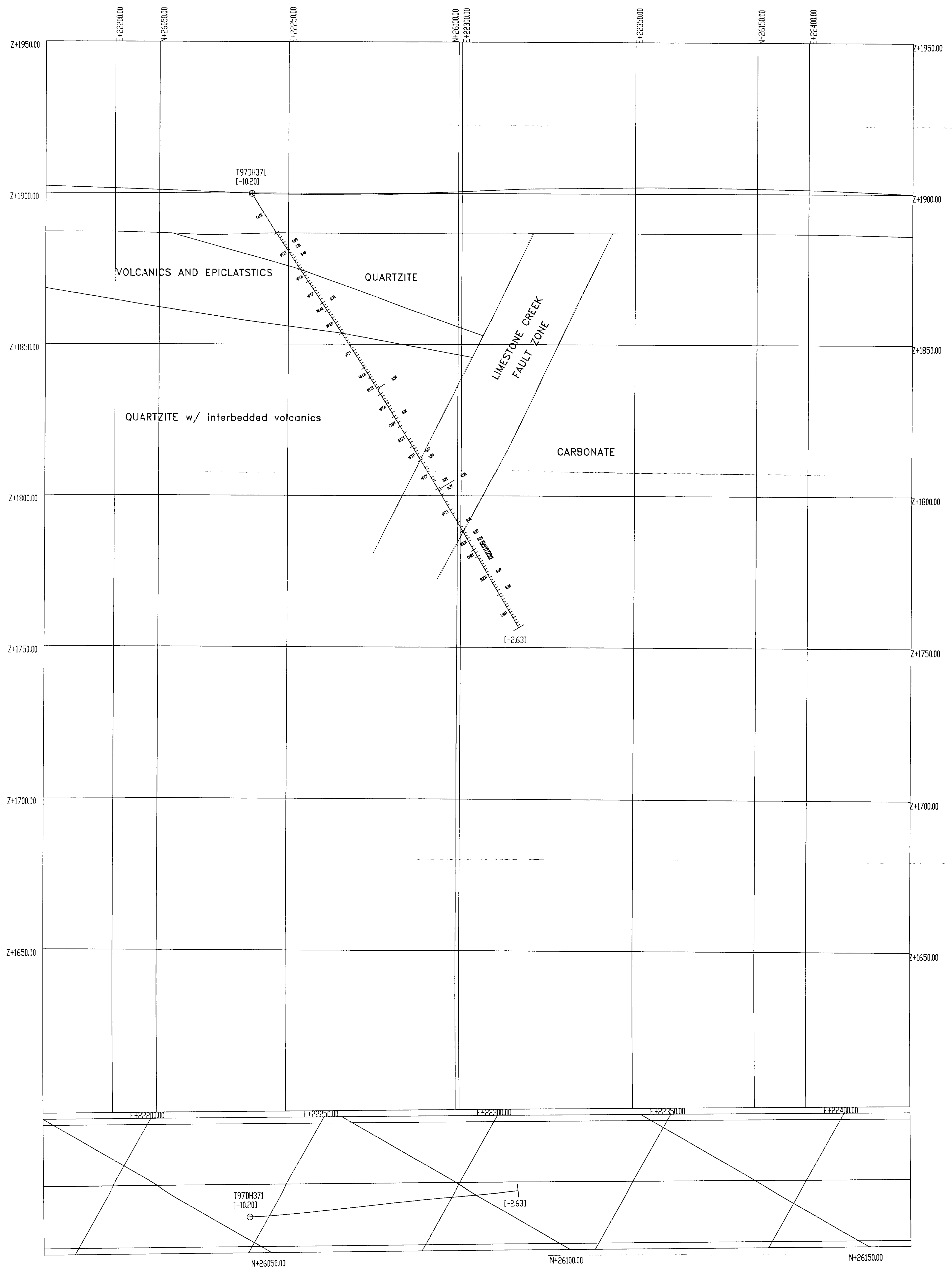
REVISIONS

| No. | Item | Date |
|-----|------|------|
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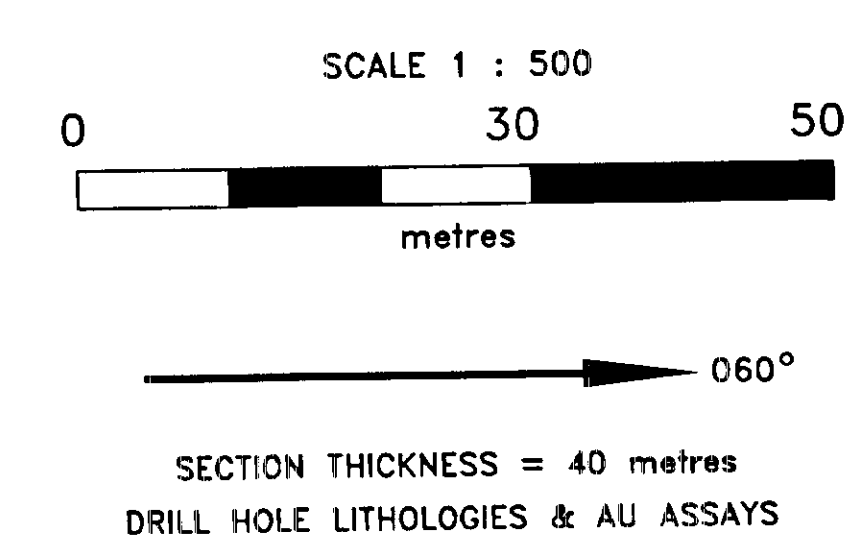
LIMESTONE CREEK FAULT

VERTICAL SECTION
T96DH356
T96DH362
T97DH370

Figure No: 5
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Approved: Report:
Drawn By: APH Date:



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|---|---------|-------------------------------------|-------|
| NORTH AMERICAN METALS CORP. GOLDEN BEAR MINE | | LIMESTONE CREEK FAULT | |
| VERTICAL SECTION T96DH371 | | | |
| Figure No: 6 | | File: S:\97report\lmslcr\lcf371.dwg | |
| Approved: | Report: | Drawn By: APH | Date: |