

1990 EXPLORATION REPORT
ON
WOLVERINE AND QUICK CLAIMS OF
THE GOLDEN BEAR ROAD PROJECT
NTS 104J/4

VOLUME II

20945

Part 2 of 3

LEGEND

LITHOLOGIES

INTRUSIVE

Jurassic

Triassic

SUPRACRUSTAL

Upper Triassic

Stuhini Group

Clastics

Volcanics

Undifferentiated

Mafic, fine-grained volcanics

Mafic Tufts

Agglomerate

Augete Porphyry

Feldspar Porphyry

Augete-Feldspar Porphyry

Trachytic Andesite

1. Fine-grained, lathy feldspar < 1cm

2. Coarse-grained feldspar > 1cm

SYMBOLS

31118 (A.S.158)

31118 (A.S.158)

31118 (A.S.158)

31119 (D.S.1,2000)

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31119 (D.S.1,2000)

31119 (D.S.1,2000)

31119 (D.S.1,2000)

31119 (D.S.1,2000)

ABBREVIATIONS

Bl: Biotite

Chl: Chlorite

Cp: Chalcopyrite

c.g.: Coarse-grained

Ep: Epidote

Frac: Fracture

f.g.: Fine-grained

Gr: Garnet

m.g.: Medium-grained

Mg: Magnetite

Mz: Muscovite

Py: Pyrite

q.v.: Quartz Vein

R/C: Rubble Crop

Sil: Silicified

Sph: Sphalerite

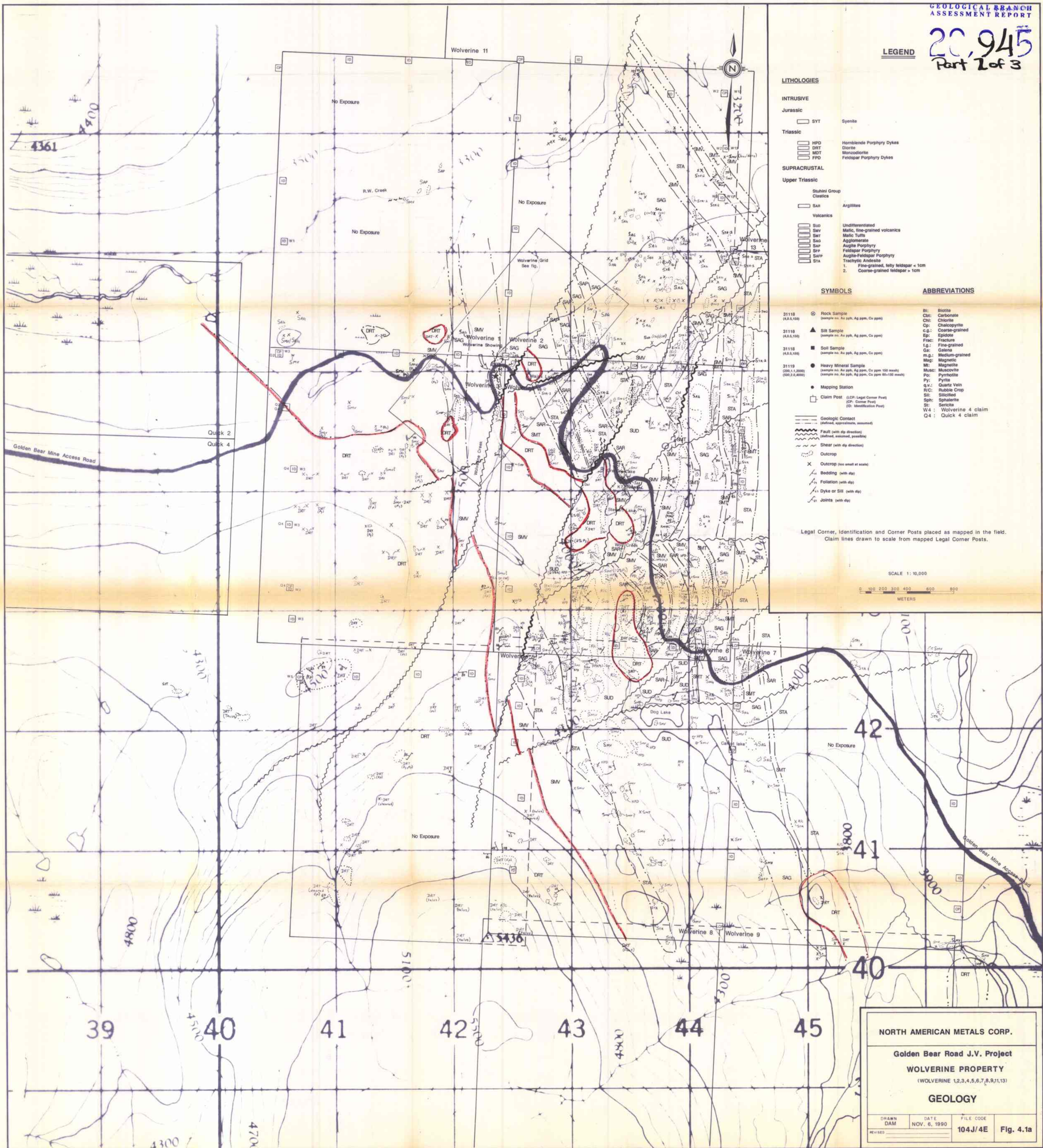
St: Sericite

W.4: Wolverine 4 claim

Q.4: Quick 4 claim

Legal Corner, Identification and Corner Posts placed as mapped in the field.
Claim lines drawn to scale from mapped Legal Corner Posts.

SCALE 1:10,000



NORTH AMERICAN METALS CORP.

Golden Bear Road J.V. Project

WOLVERINE PROPERTY

(WOLVERINE 1,2,3,4,5,6,7,8,9,11,13)

GEOLOGY

DRAWN DAM	DATE NOV. 6, 1990	FILE CODE 104J/4E	Fig. 4.1a
REVISED			

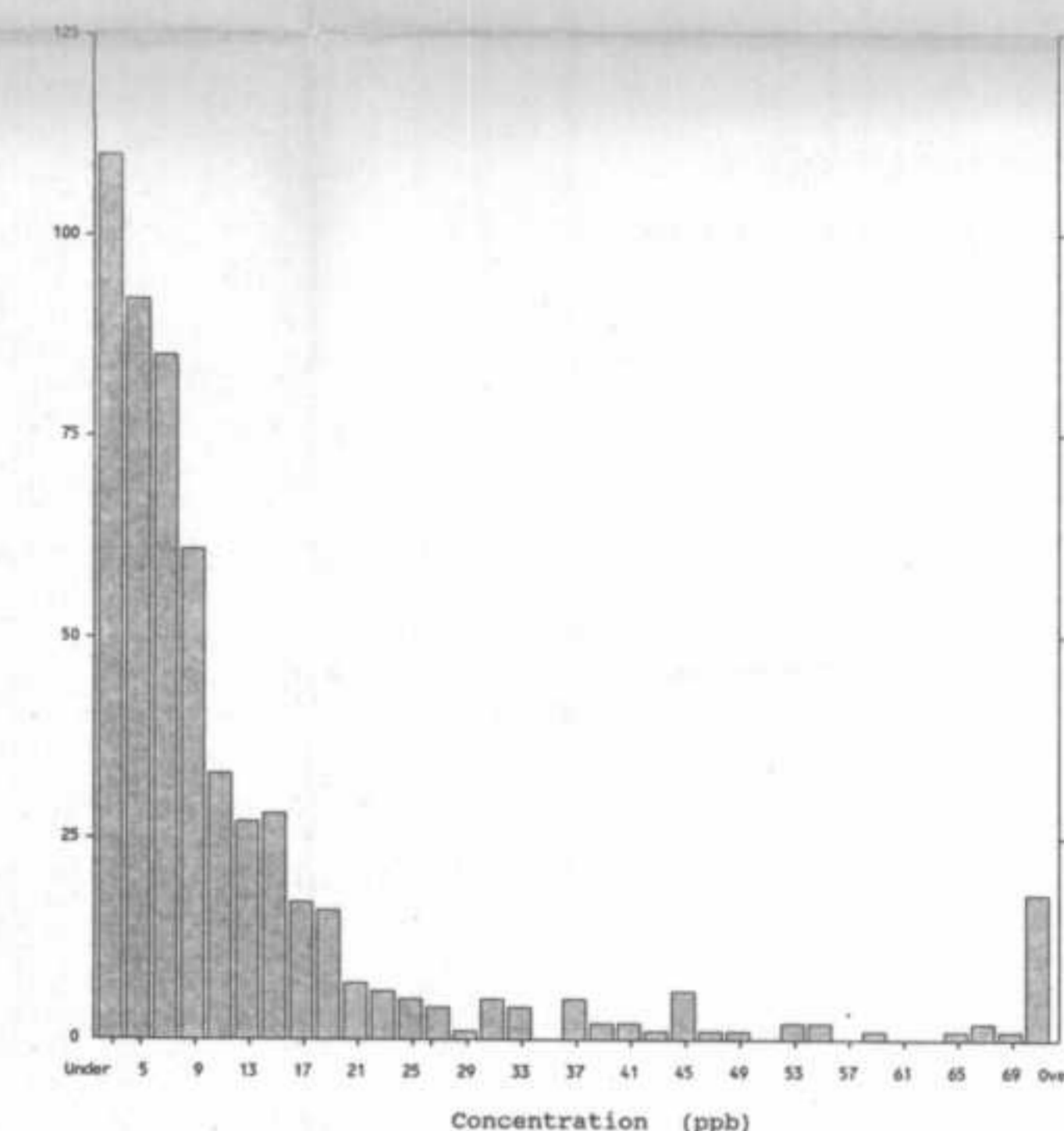
LEGEND

- ⊙ 3863
10 Rock Sample (Sample No., Au ppb)
 - ▲ AS-12
10 Silt (Sample No., Au ppb)
 - A-26-2
10 Soil (Sample No., Au ppb)
- Soil Contour Interval**
- < 15 ppb
 - 15 - 50 ppb
 - 50 - 85 ppb
 - > 85 ppb

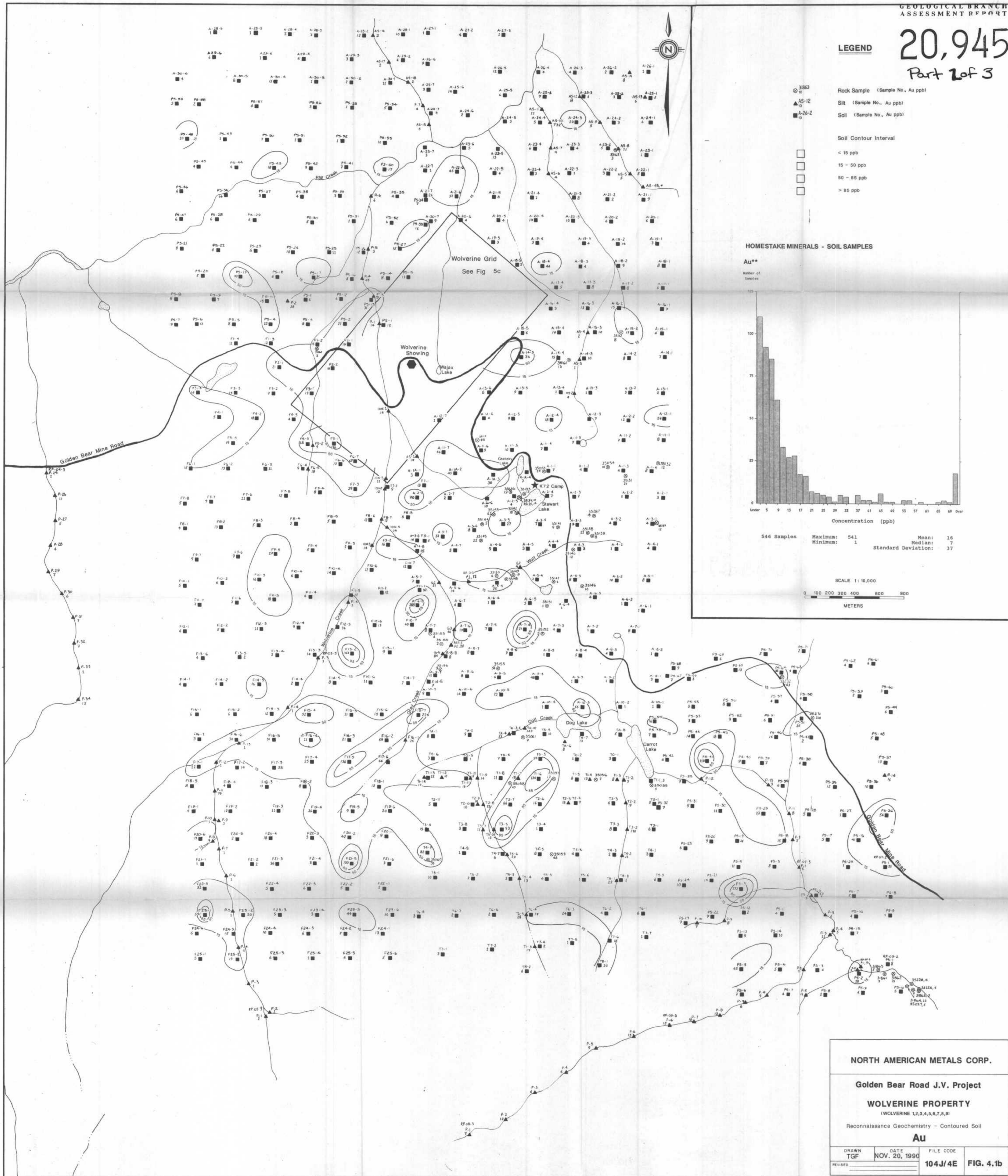
HOMESTAKE MINERALS - SOIL SAMPLES

Au**

Number of Samples



SCALE 1:10,000



NORTH AMERICAN METALS CORP.

Golden Bear Road J.V. Project

WOLVERINE PROPERTY
(WOLVERINE 1,2,3,4,5,6,7,8,9)

Reconnaissance Geochemistry - Contoured Soil

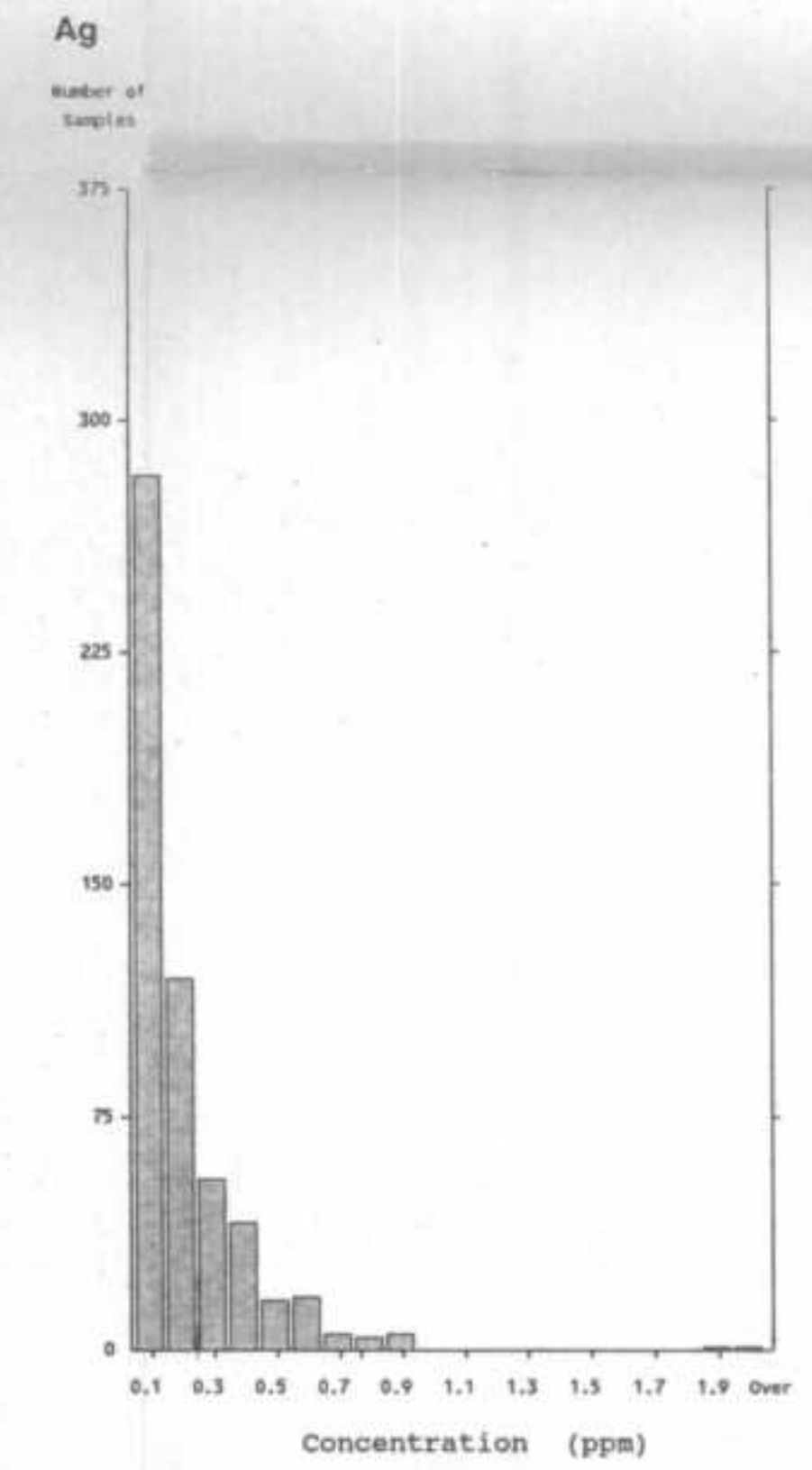
Au

DRAWN TGF	DATE NOV. 20, 1990	FILE CODE 104J/4E	FIG. 4.1b
REVISED			

LEGEND

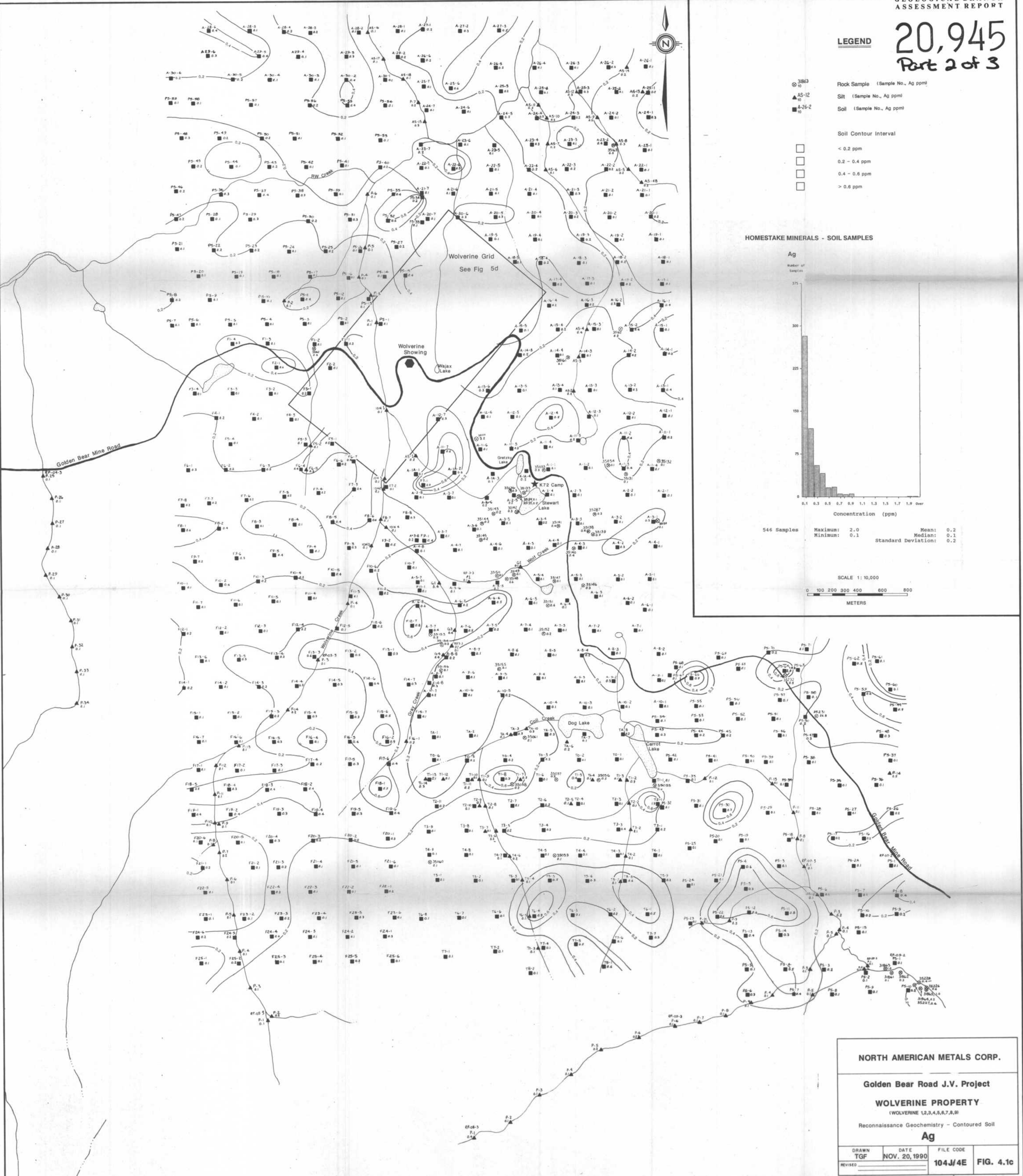
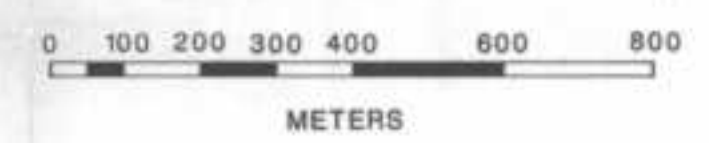
- 3863 (Sample No., Ag ppm)
 - ▲ AS-12 (Sample No., Ag ppm)
 - A-26-2 (Sample No., Ag ppm)
- Soil Contour Interval
- < 0.2 ppm
 - 0.2 - 0.4 ppm
 - 0.4 - 0.6 ppm
 - > 0.6 ppm

HOMESTAKE MINERALS - SOIL SAMPLES



546 Samples
Maximum: 2.0
Minimum: 0.1
Mean: 0.2
Median: 0.1
Standard Deviation: 0.2

SCALE 1:10,000



NORTH AMERICAN METALS CORP.

Golden Bear Road J.V. Project

WOLVERINE PROPERTY

(WOLVERINE 1,2,3,4,5,6,7,8,9)

Reconnaissance Geochemistry - Contoured Soil

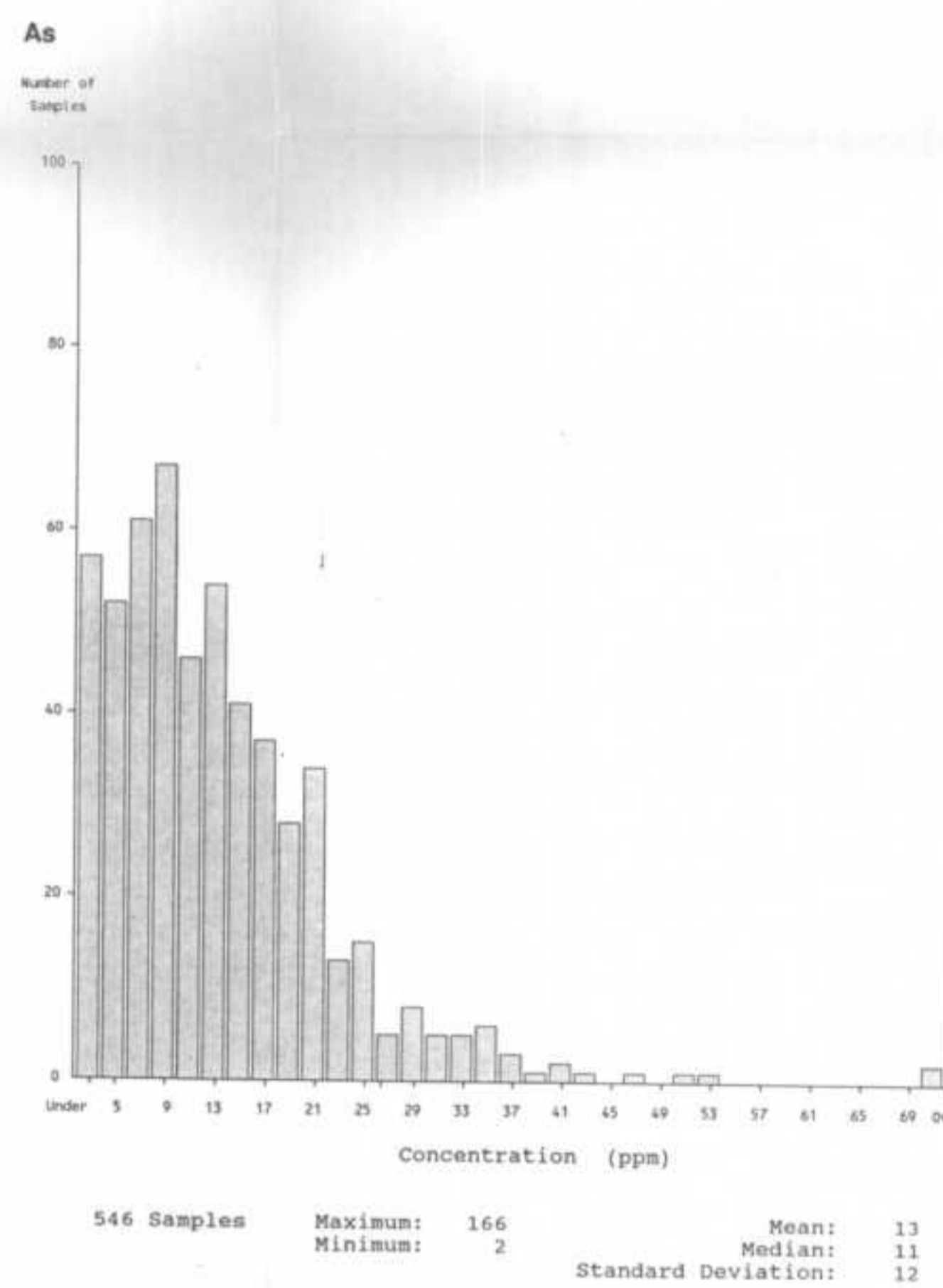
Ag

DRAWN	DATE	FILE CODE
TGF	NOV. 20, 1990	104J/4E
REVISED		FIG. 4.1c

LEGEND

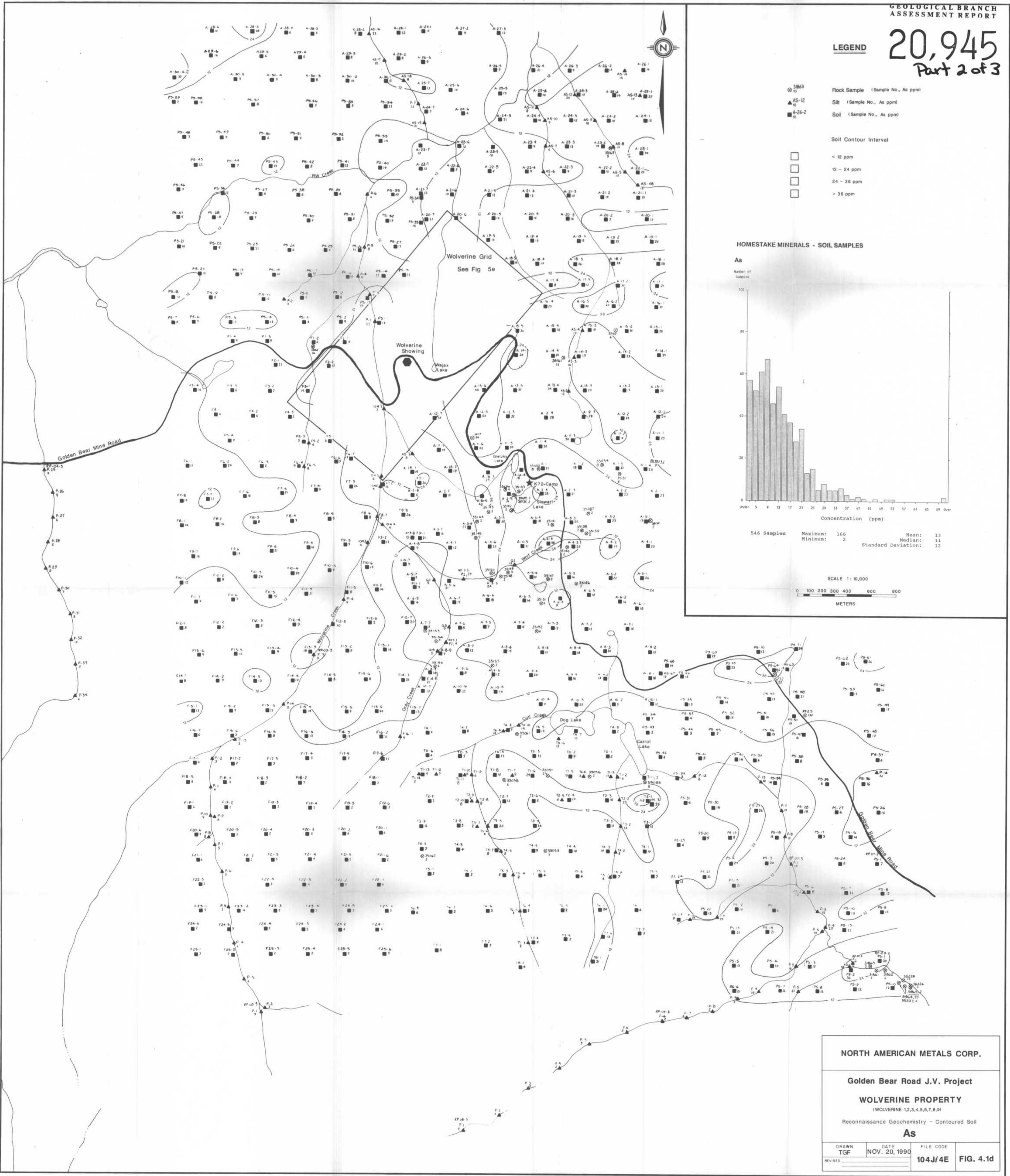
- ⊙ 3863 Rock Sample (Sample No., As ppm)
 - ▲ AS-12 Silt (Sample No., As ppm)
 - A-26-2 Soil (Sample No., As ppm)
- Soil Contour Interval
- < 12 ppm
 - 12 - 24 ppm
 - 24 - 36 ppm
 - > 36 ppm

HOMESTAKE MINERALS - SOIL SAMPLES



SCALE 1:10,000

0 100 200 300 400 600 800
METERS



NORTH AMERICAN METALS CORP.

Golden Bear Road J.V. Project

WOLVERINE PROPERTY
(WOLVERINE 1,2,3,4,5,6,7,8,9)

Reconnaissance Geochemistry - Contoured Soil

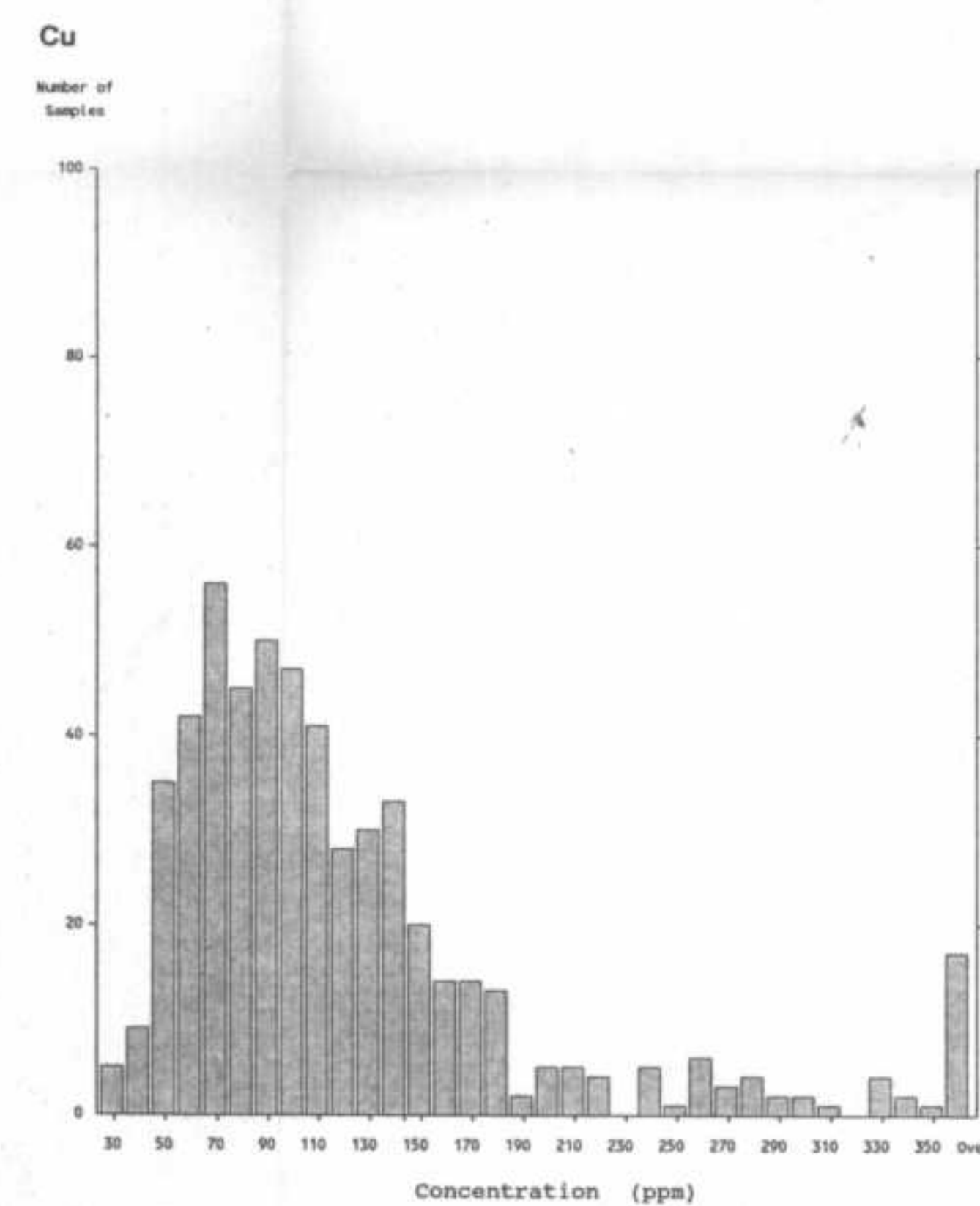
As

DRAWN TGF	DATE NOV. 20, 1990	FILE CODE 104J/4E	FIG. 4.1d
REVISED			

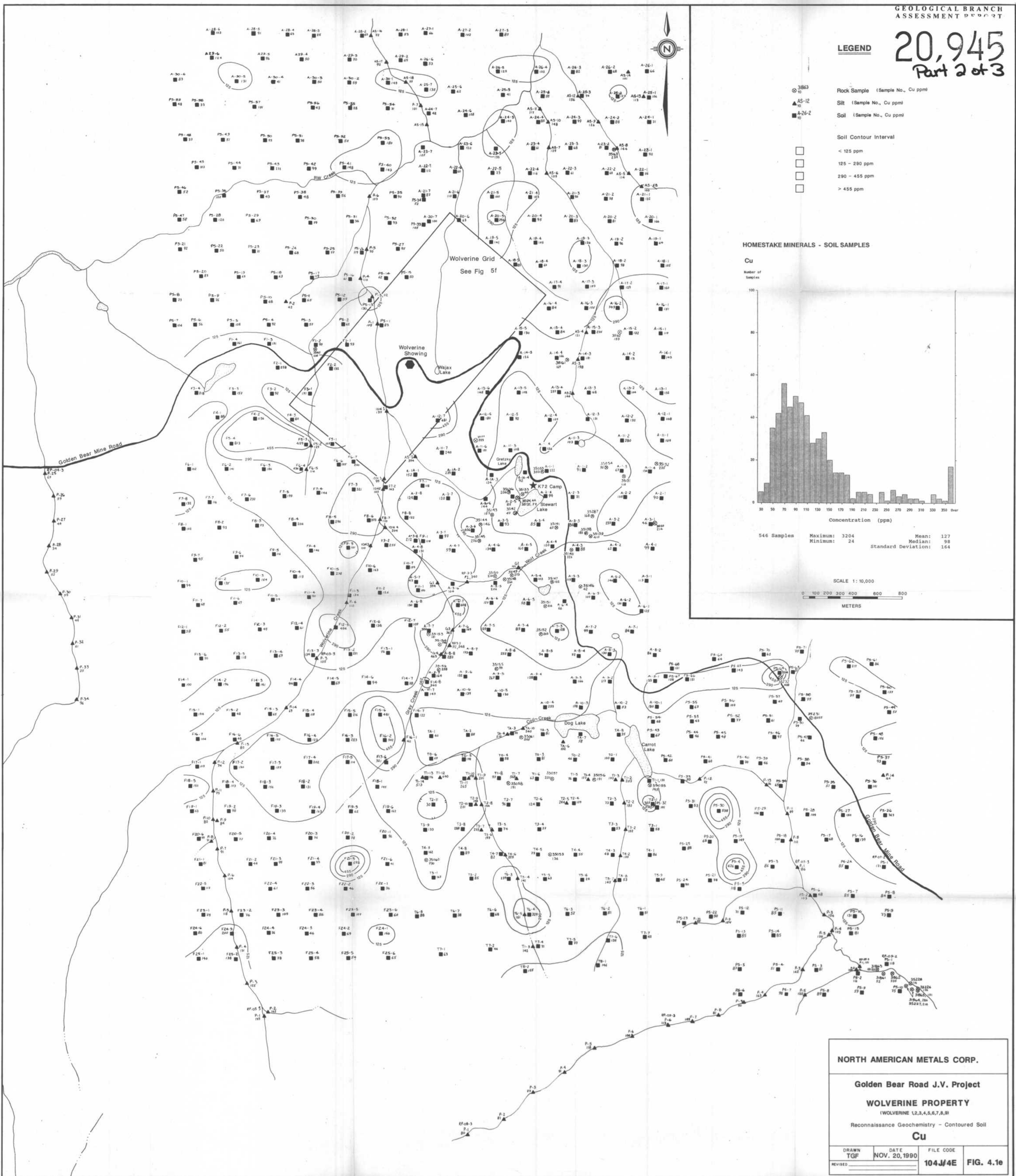
LEGEND

- ⊙ 3863
10 Rock Sample (Sample No., Cu ppm)
 - ▲ AS-12
10 Silt (Sample No., Cu ppm)
 - A-26-2
10 Soil (Sample No., Cu ppm)
- Soil Contour Interval
- < 125 ppm
 - 125 - 280 ppm
 - 280 - 455 ppm
 - > 455 ppm

HOMESTAKE MINERALS - SOIL SAMPLES



SCALE 1:10,000



NORTH AMERICAN METALS CORP.

Golden Bear Road J.V. Project

WOLVERINE PROPERTY

(WOLVERINE 1,2,3,4,5,6,7,8,9)

Reconnaissance Geochemistry - Contoured Soil

Cu

DRAWN TGF	DATE NOV. 20, 1990	FILE CODE 104J/4E	FIG. 4.1e
REVISED			

LITHOLOGIES

INTRUSIVE

Jurassic

- SYT Syenite

Triassic

- HPD Hornblende Porphyry Dykes
- DIY Diorite
- MDT Monzonite
- FPD Feldspar Porphyry Dykes

SUPRACRUSTAL

Upper Triassic

- Stuhini Group
- Clastics
 - SAR Argillites
- Volcanics
 - SUD Undifferentiated
 - SMV Mafic, fine-grained volcanics
 - SMT Mafic Tuffs
 - SAG Agglomerate
 - SAP Andite Porphyry
 - SFP Feldspar Porphyry
 - SAFP Andite-Feldspar Porphyry
 - STA Trachytic Andesite
 1. Fine-grained, fely feldspar < 1cm
 2. Coarse-grained feldspar > 1cm

SYMBOLS

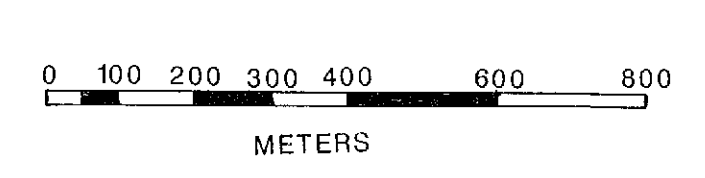
- 31118 (4,5,150) ⊗ Rock Sample (sample no. Au ppb, Ag ppm, Cu ppm)
- 31118 (4,5,150) ▲ Silt Sample (sample no. Au ppb, Ag ppm, Cu ppm)
- 31118 (4,5,150) ■ Soil Sample (sample no. Au ppb, Ag ppm, Cu ppm)
- 31119 (200,1,1,2000) ● Heavy Mineral Sample (sample no. Au ppb, Ag ppm, Cu ppm 150 mesh) (sample no. Au ppb, Ag ppm, Cu ppm 60+150 mesh)
- Mapping Station
 - LCP: Land Claim Post
 - CP: Corner Post
 - ID: Identification Post
- Geologic Contact (defined, approximate, assumed)
- Fault (with dip direction) (defined, assumed, possible)
- Shear (with dip direction)
- Outcrop
 - × Outcrop (small at scale)
 - ↘ Bedding (with dip)
 - ↘ Foliation (with dip)
 - ↘ Dyke or Sill (with dip)
 - ↘ Joints (with dip)

ABBREVIATIONS

- Rt: Biotite
- Cbt: Carbonate
- Chl: Chlorite
- Cp: Chalcopyrite
- c.g.: Coarse-grained
- Ep: Epidote
- Frac: Fracture
- f.g.: Fine-grained
- Gal: Galena
- m.g.: Medium-grained
- Mag: Magnetic
- Mt: Magnetite
- Musc: Muscovite
- Po: Pyrrhotite
- Py: Pyrite
- Qz: Quartz Vein
- R/C: Rubble Crop
- Sil: Silicified
- Sph: Sphalerite
- St: Sericite

Land Claim Posts placed as per Mineral Titles Reference
Maps 104 J/4E and 104 J/4W,
Department of Mines and Petroleum Resources, Victoria B.C.

Scale 1: 10000

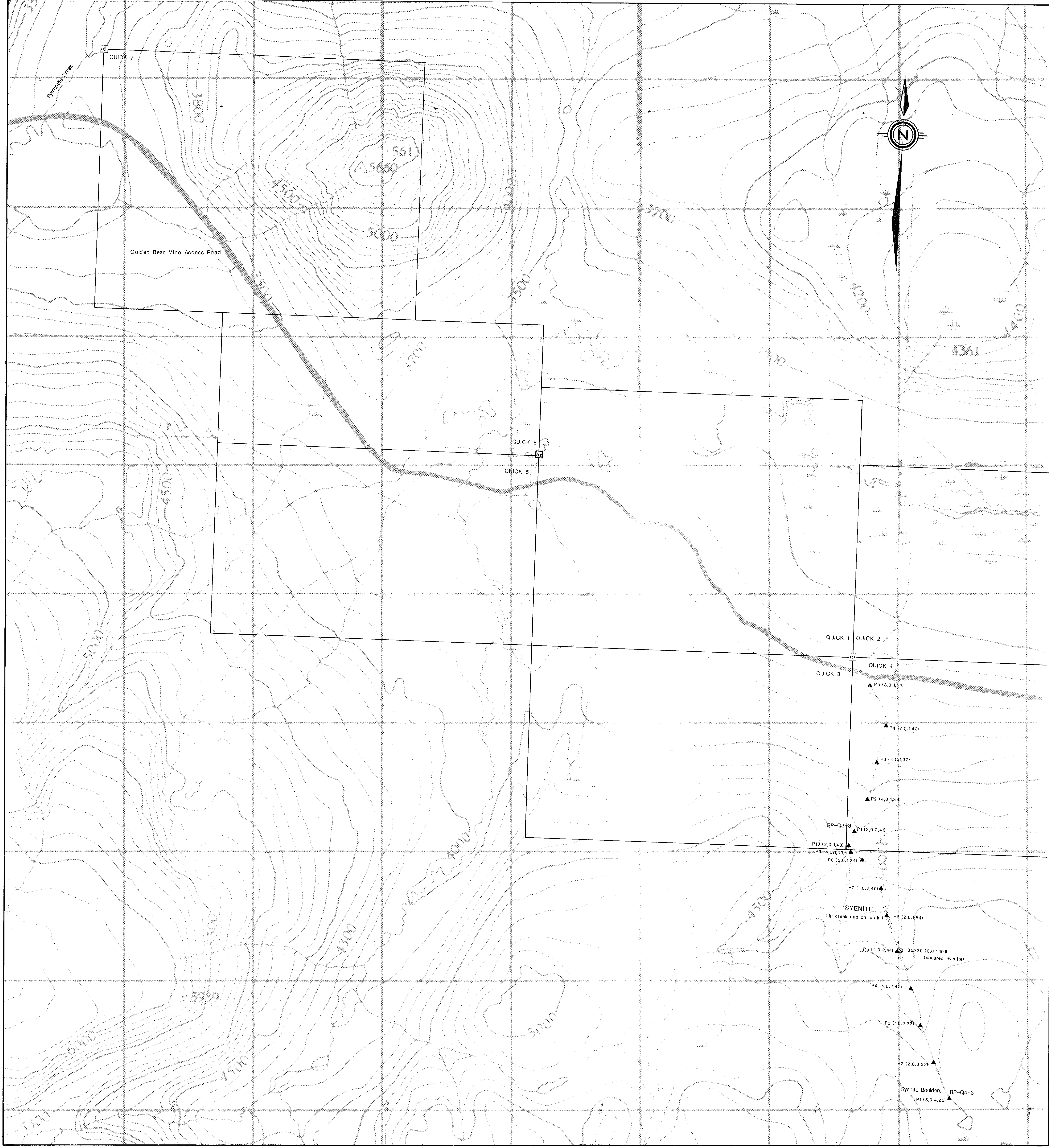


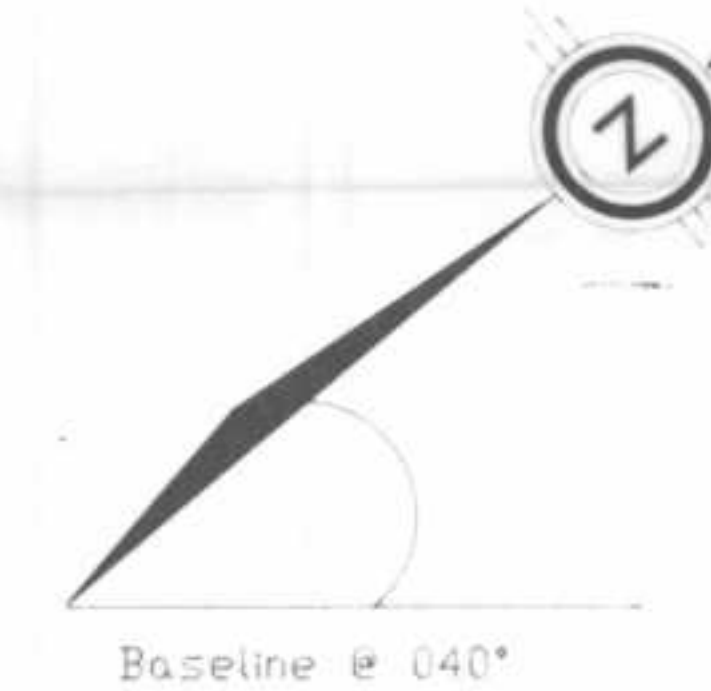
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Golden Bear Road J.V. Project
WOLVERINE PROPERTY
(Quick 1,2,3,4,5,6,7 Claims)

GEOLOGY and GEOCHEMISTRY

DRAWN DAM	DATE Nov. 1, 1990	FILE CODE 104 J/4W	FIG. 4.2
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LEGEND

LITHOLOGIES

INTRUSIVE

- Jurassic
 - SYT Syenite
- Triassic
 - HPD Hornblende Porphyry Dykes
 - DRT Diorite
 - MDT Monzonite
 - FPD Feldspar Porphyry Dykes

SUPRACRUSTAL

Upper Triassic

- Stuhni Group
Clastics
 - SAR Argillites
- Volcanics
 - SUO Undifferentiated
 - SUV Mafic, fine-grained volcanics
 - SMT Mafic Tuffs
 - SAG Agglomerate
 - SAP Andite Porphyry
 - SFP Feldspar Porphyry
 - SAPF Andite-Feldspar Porphyry
 - STA Trachytic Andesite

ABBREVIATIONS

- Bl: Biotite
- Cbt: Carbonate
- Chl: Chlorite
- Cp: Chalcopyrite
- c.g: Coarse-grained
- Epi: Epidote
- Frac: Fracture
- f.g: Fine-grained
- Ga: Galena
- m.g: Medium-grained
- Mag: Magnetite
- Mt: Magnetite
- Musc: Muscovite
- Pz: Pyrite
- Py: Pyrite
- Qz: Quartz Vein
- R.C: Rubble Crop
- Sil: Silicified
- Sph: Sphalerite
- St: Sericite

SYMBOLS

- 31118 (4,5,5,100) Rock Sample (sample no. Au ppm, Ag ppm, Cu ppm)
- 31118 (4,5,5,150) Silt Sample (sample no. Au ppm, Ag ppm, Cu ppm)
- 31118 (4,5,5,150) Soil Sample (sample no. Au ppm, Ag ppm, Cu ppm)
- 31119 (20,1,2000) (20,2,6000) Heavy Mineral Sample (sample no. Au ppm, Ag ppm, Cu ppm 100 mesh) (sample no. Au ppm, Ag ppm, Cu ppm 60-100 mesh)
- Mapping Station
- Claim Post (LCP: Legal Corner Post) (CP: Corner Post) (ID: Identification Post)

- Geologic Contact (dashed, approximate, assumed)
- Fault (with dip direction) (solid, assumed, possible)
- Shear (with dip direction)
- Outcrop
- Outcrop (see inset at scale)
- Bedding (with dip)
- Foliation (with dip)
- Dyke or Sil (with dip)
- Joints (with dip)

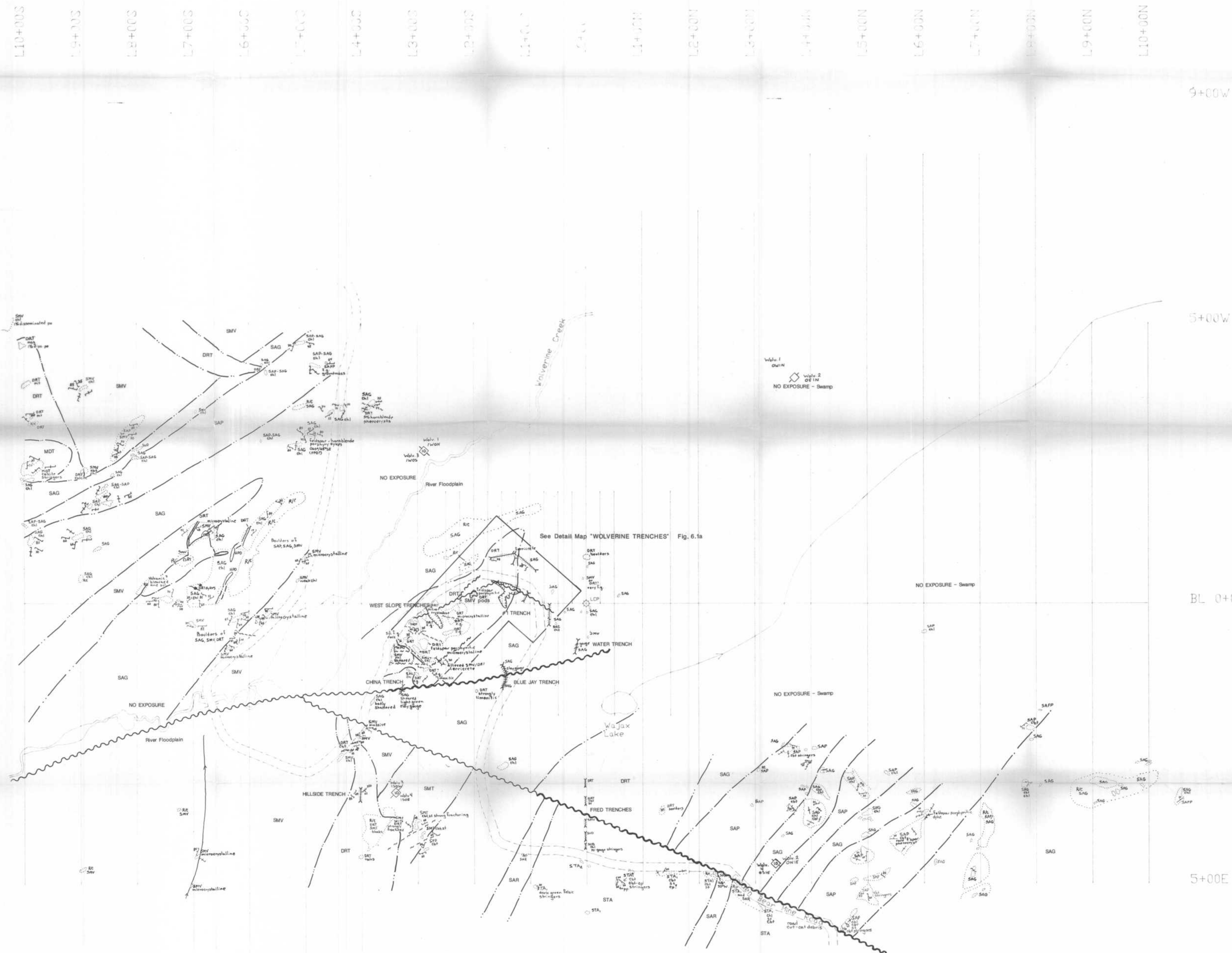
NORTH AMERICAN METALS CORP.

**GOLDEN BEAR ROAD J.V. PROJECT
WOLVERINE PROPERTY**

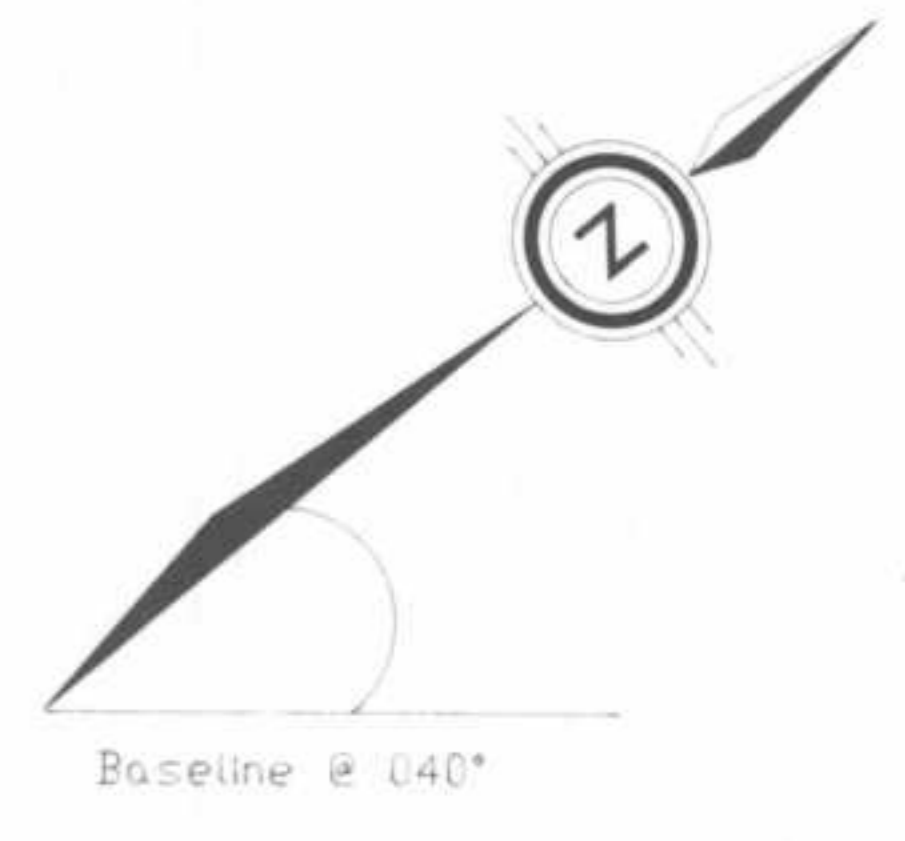
WOLVERINE GRID

GEOLOGY

DRAWN DM	DATE 11/90	FILE CODE 104J4E	FIGURE 5a.
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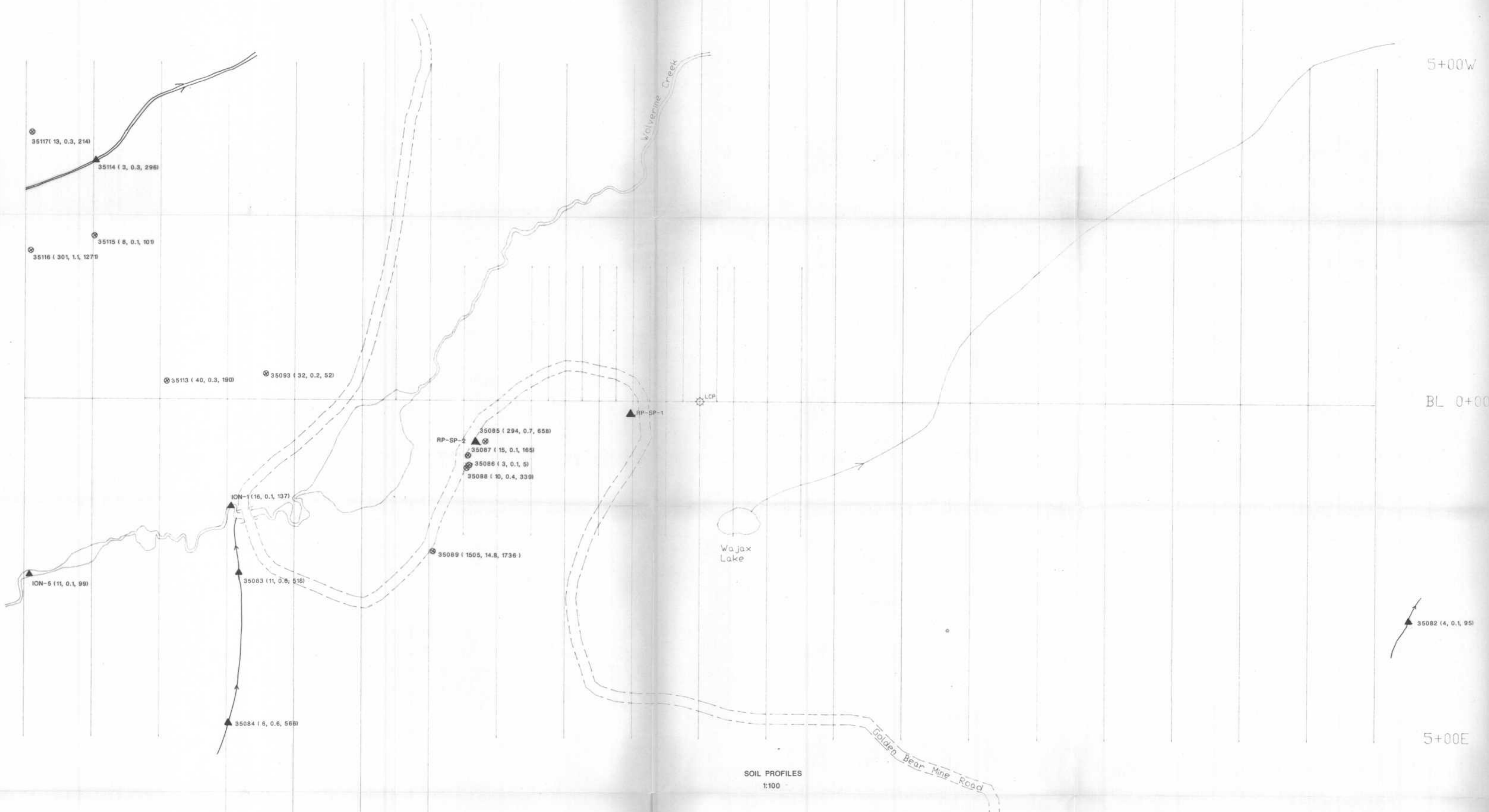


L10+00S L9+00S L8+00S L7+00S L6+00S L5+00S L4+00S L3+00S L2+00S L1+00S L0+00 L1+00N L2+00N L3+00N L4+00N L5+00N L6+00N L7+00N L8+00N L9+00N L10+00N

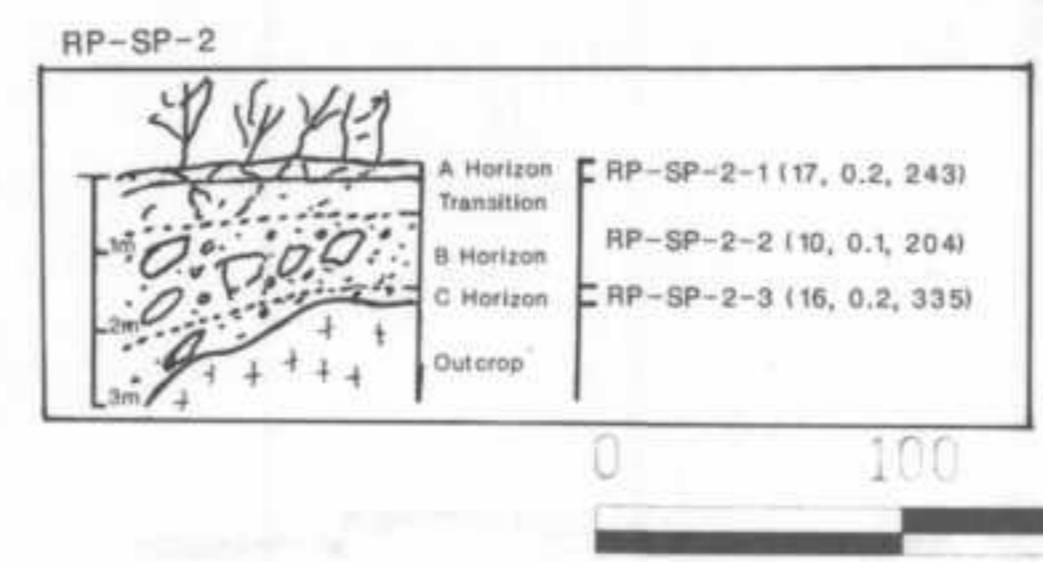
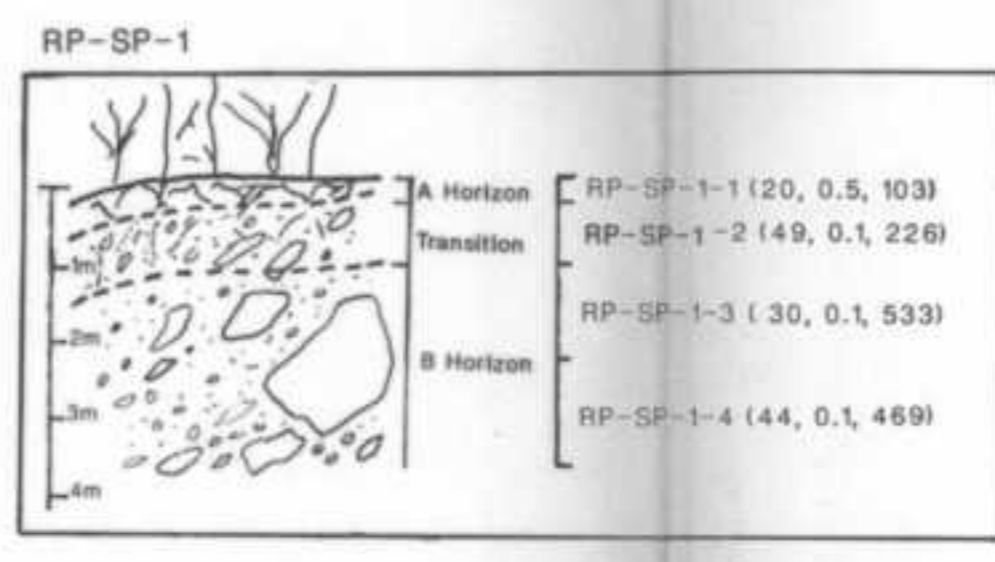


SYMBOLS

- 3118 (A.S.150) Rock Sample (sample no. Au ppm, Ag ppm, Cu ppm)
- 3118 (A.S.150) SIR Sample (sample no. Au ppm, Ag ppm, Cu ppm)
- 3118 (A.S.150) Soil Sample (sample no. Au ppm, Ag ppm, Cu ppm)
- 3119 (S.O.1,2000) (S.O.2,4000) Heavy Mineral Sample (sample no. Au ppm, Ag ppm, Cu ppm 100 mesh) (sample no. Au ppm, Ag ppm, Cu ppm 60+100 mesh)



SOIL PROFILES
1:100



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**
20,945
Part 2 of 3

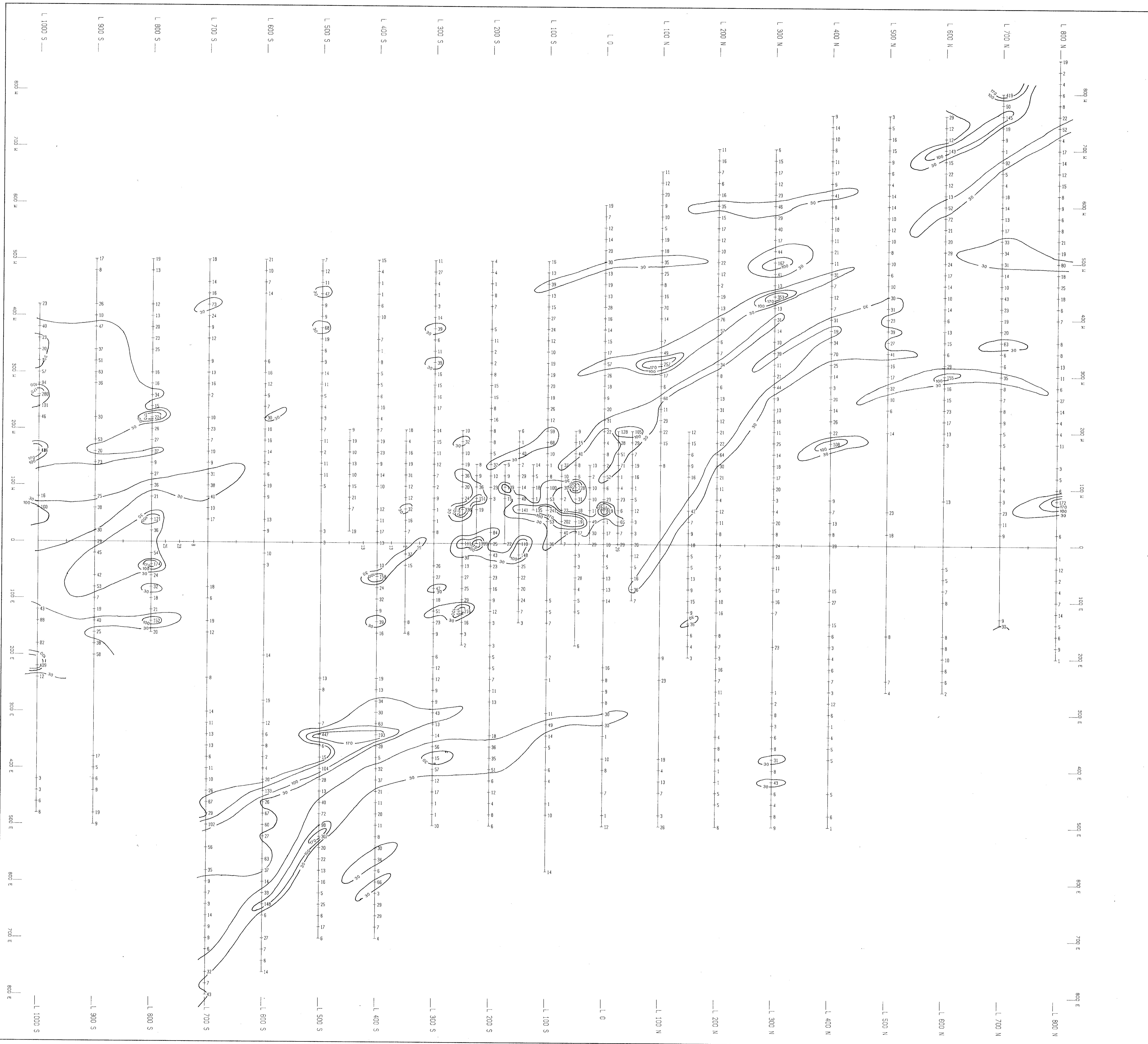
NORTH AMERICAN METALS CORP.

GOLDEN BEAR ROAD J.V. PROJECT
WOLVERINE PROPERTY
WOLVERINE GRID
SAMPLE LOCATION AND GEOCHEMISTRY

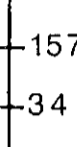
DRAWN dm	DATE 10/90	FILE CODE 104J4E	FIGURE 5b.
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

20,945

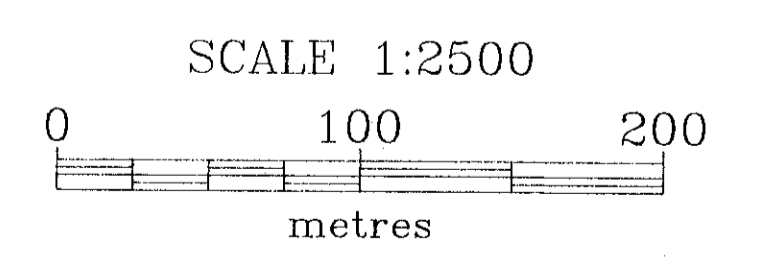
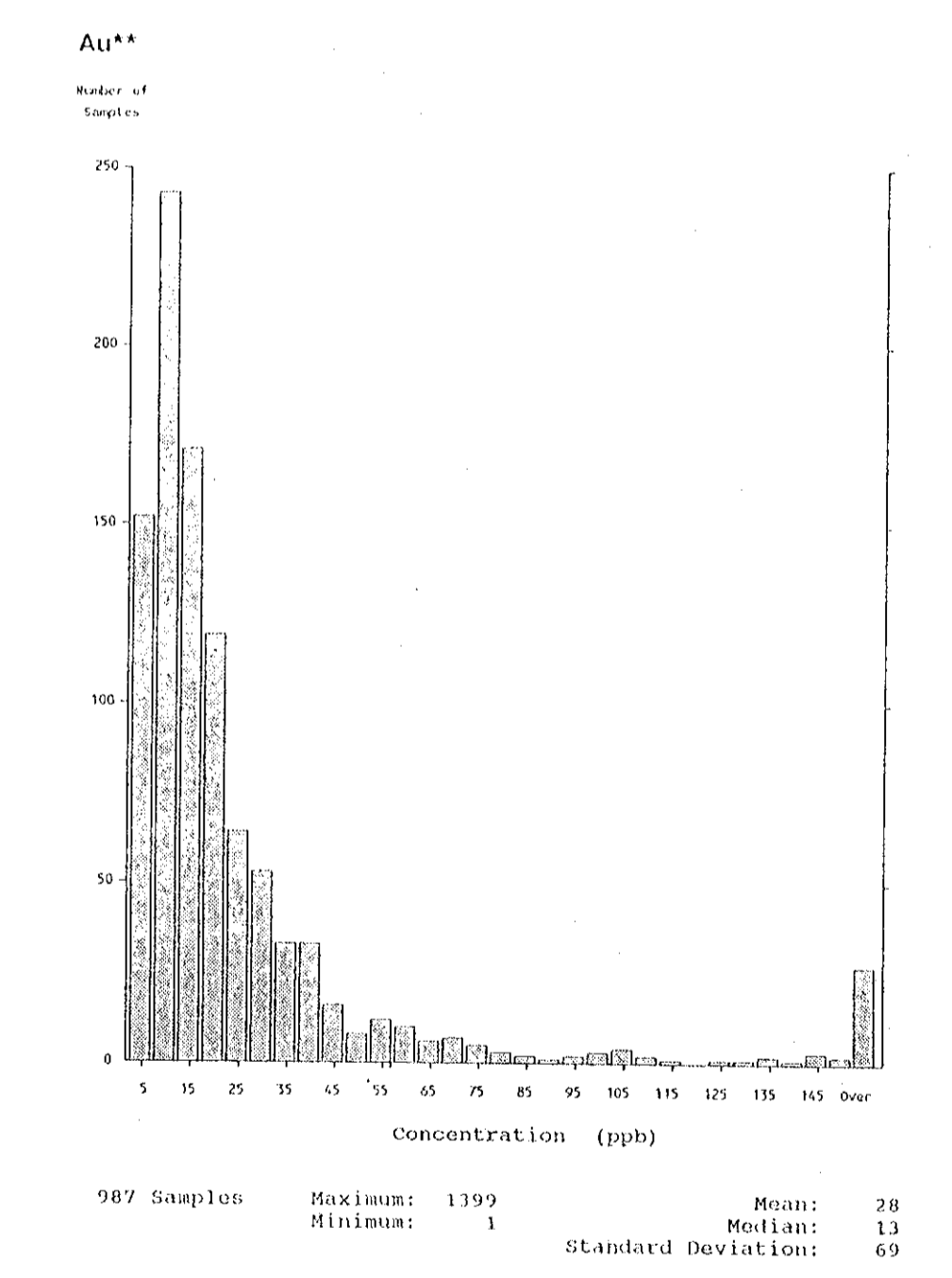
Part 2 of 3



LEGEND

- 
 157
 34
 Grid Station, Au ppb

- Contour Interval
 -  < 30 ppb
 -  30 to 100 ppb
 -  100 to 170 ppb
 -  > 170 ppb

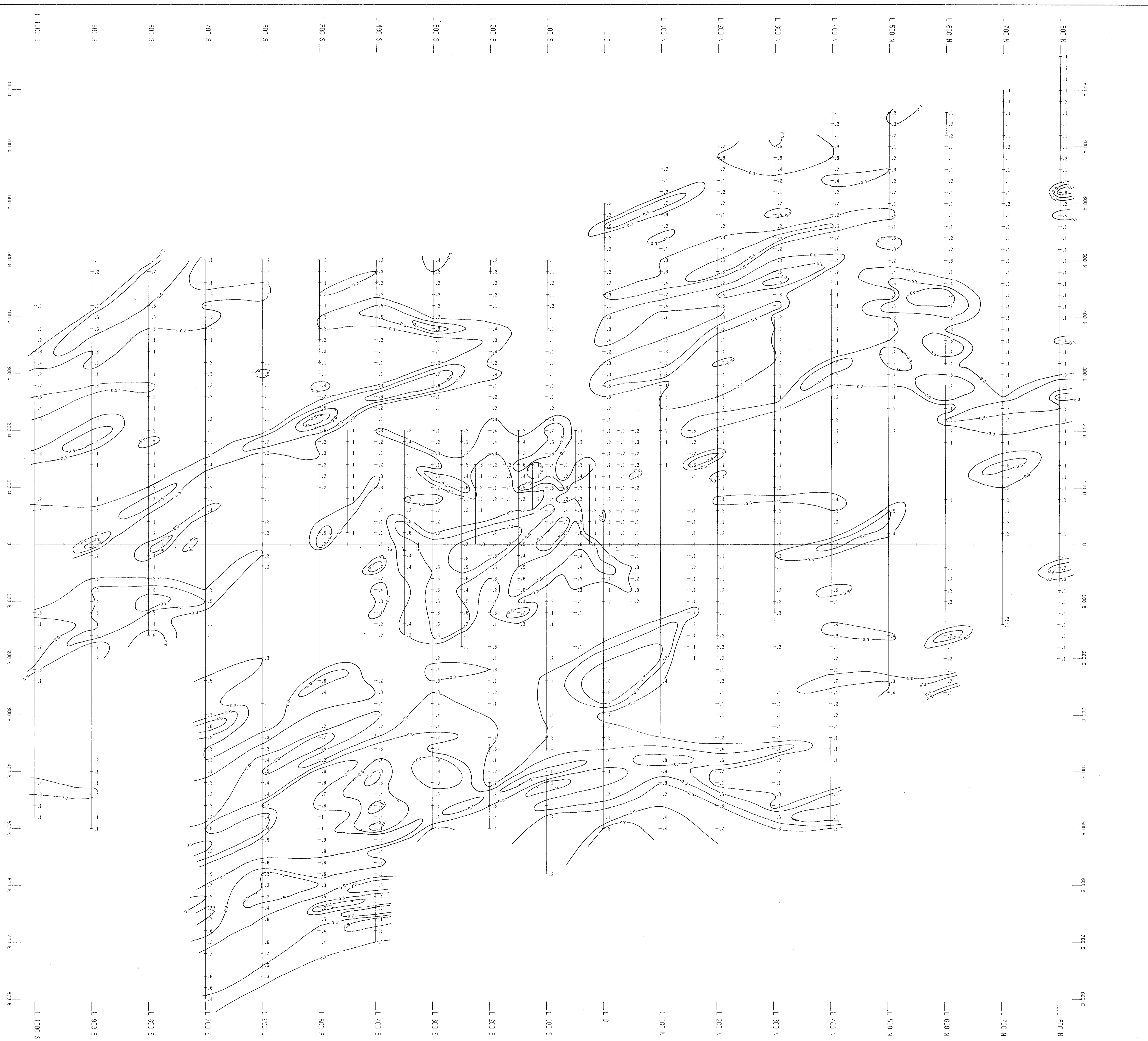
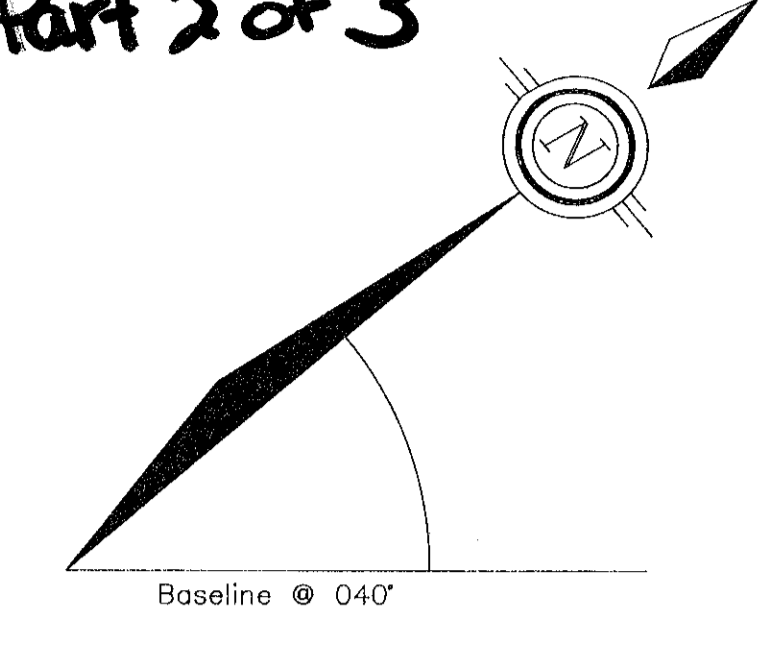


NORTH AMERICAN METALS CORP.

GOLDEN BEAR ROAD J.V. PROJECT
WOLVERINE PROPERTY
WOLVERINE GRID
CONTOURED SOIL GEOCHEMISTRY
Au (ppb) VALUE MAP

DRAWN TGF	DATE 10/90	FILE CODE 104J4E	FIGURE FIG. 5c
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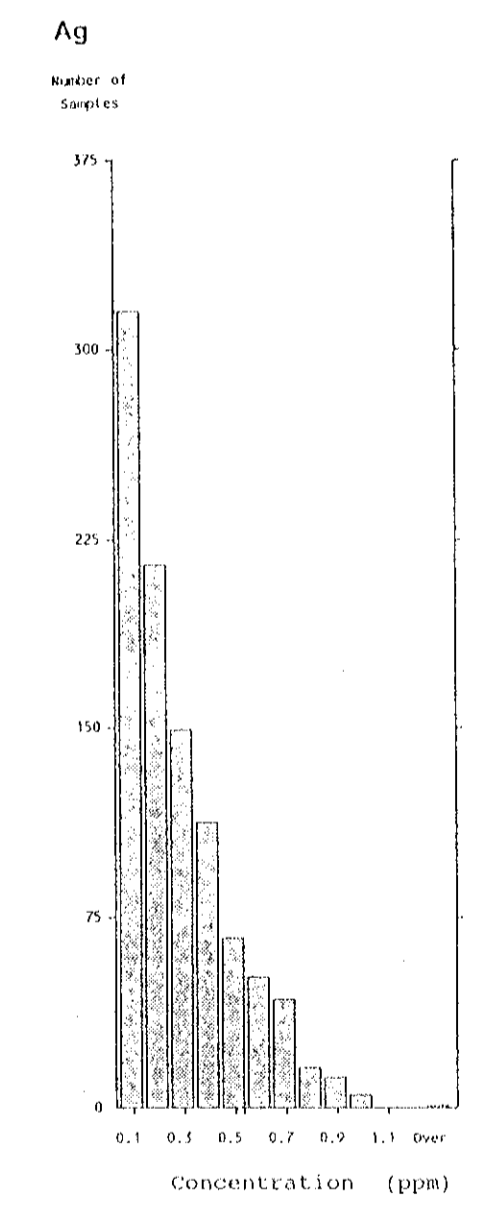


LEGEND

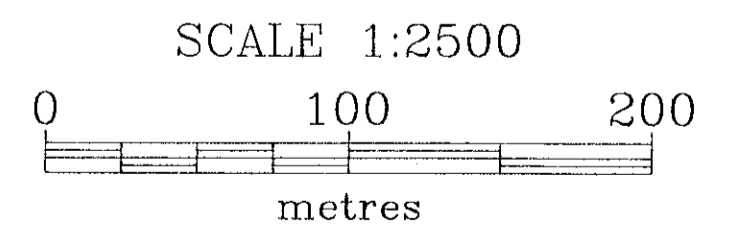
- Grid Station, Ag ppm

- Contour Interval**

 - < 0.3 ppm
 - 0.3 - 0.5 ppm
 - 0.5 - 0.7 ppm
 - > 0.7 ppm



967 Samples Maximum: 1.3 Mean: 0.3
Minimum: 0.1 Median: 0.2 Standard Deviation: 0.2

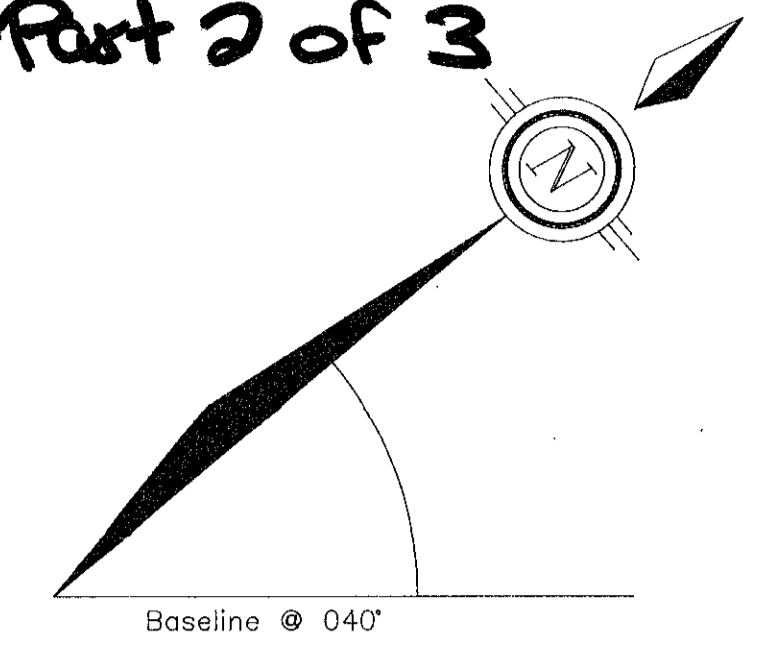


NORTH AMERICAN METALS CORP.

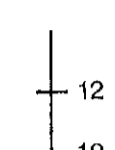




GOLDEN BEAR ROAD J.V. PROJECT
WOLVERINE PROPERTY
WOLVERINE GRID
CONTOURED SOIL GEOCHEMISTRY
Ag (ppm) VALUE MAP

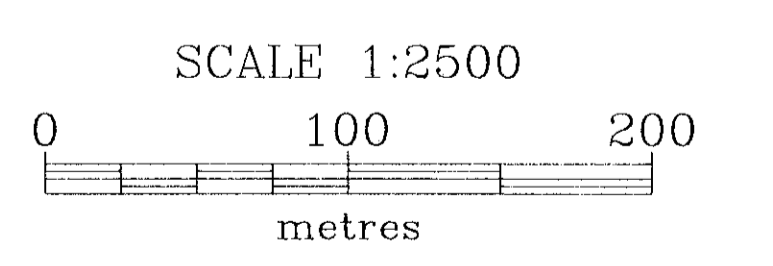
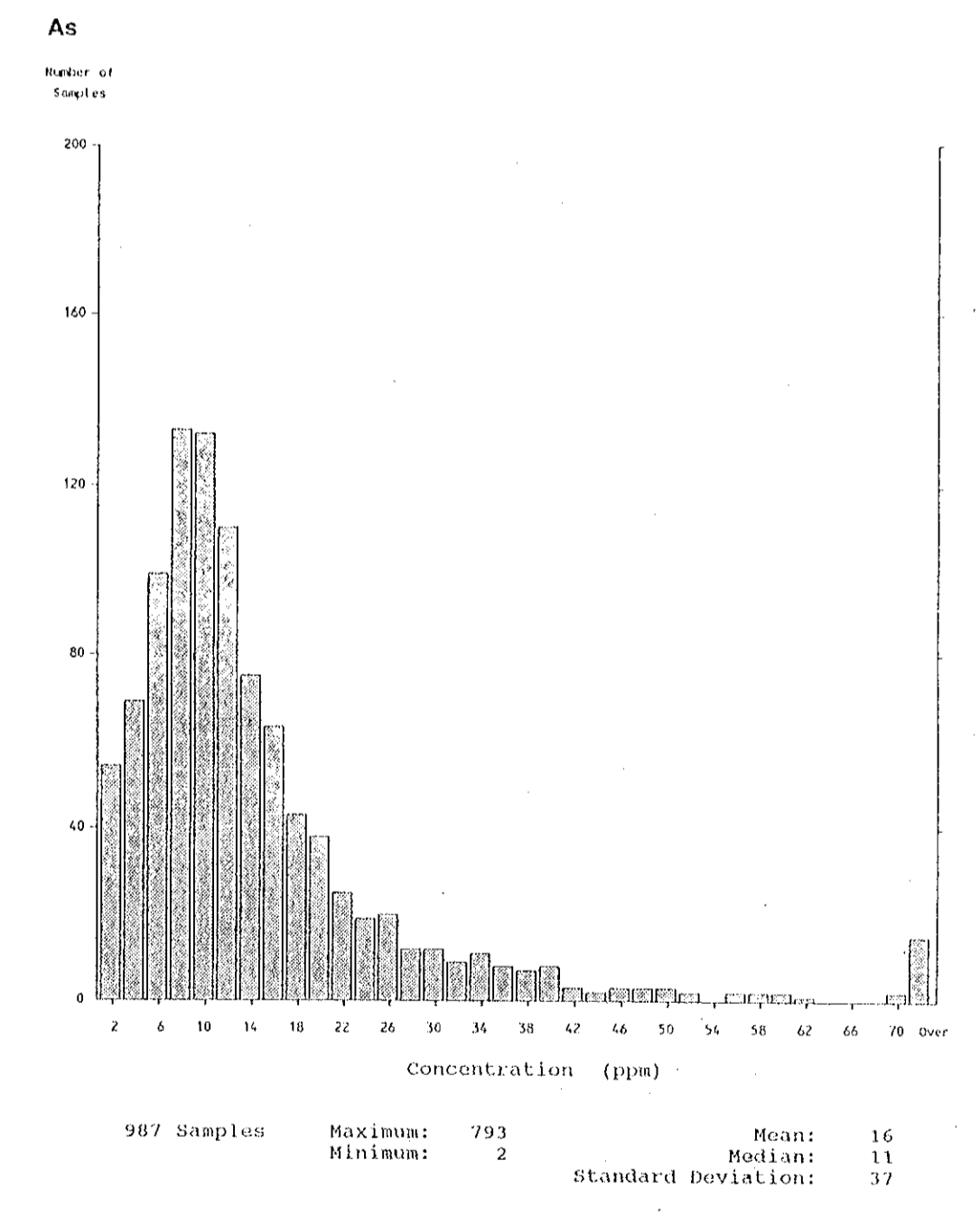
DRAWN TGF	DATE 10/90	FILE CODE 104J4E	FIGURE FIG. 5d
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20,945
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LEGEND

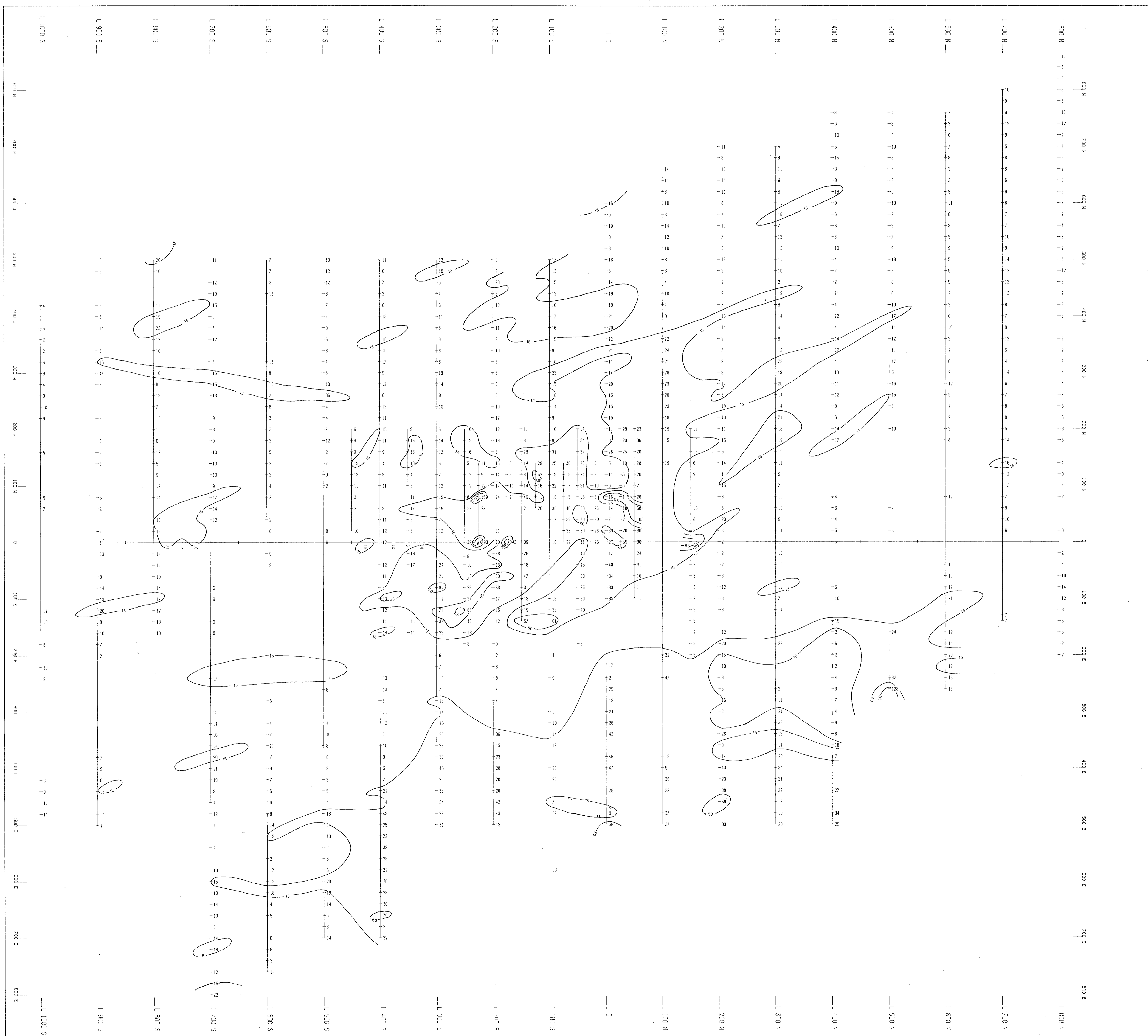
-  Grid Station, As ppm
- Contour Interval**
-  < 15 ppm
-  15 - 50 ppm
-  50 - 85 ppm
-  > 85 ppm

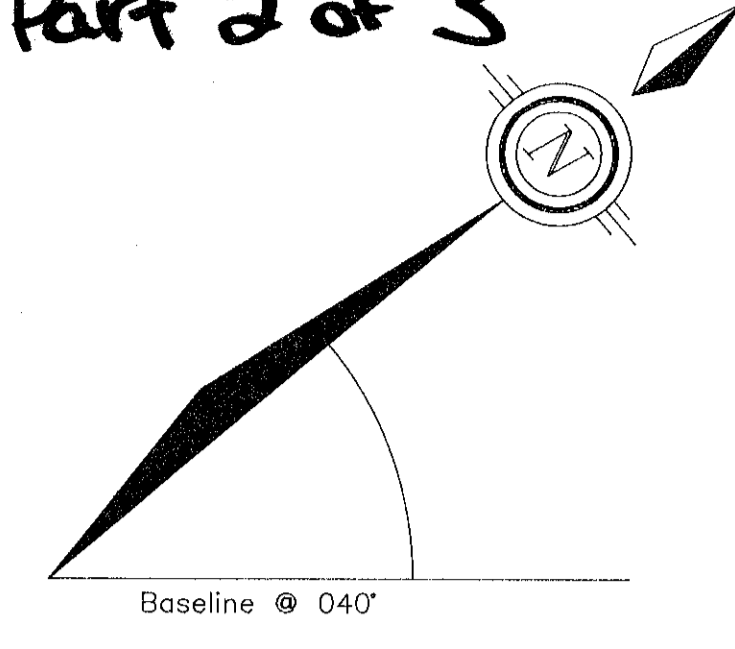


NORTH AMERICAN METALS CORP.

GOLDEN BEAR ROAD J.V. PROJECT
WOLVERINE PROPERTY
WOLVERINE GRID
CONTOURED SOIL GEOCHEMISTRY
As (ppm) VALUE MAP

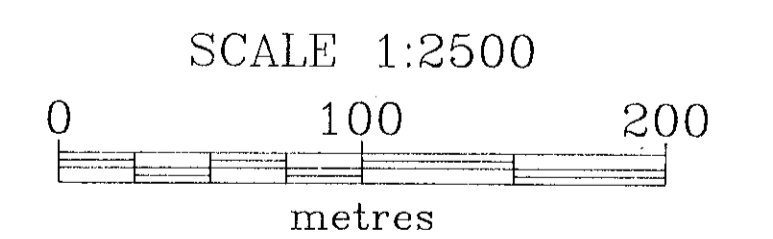
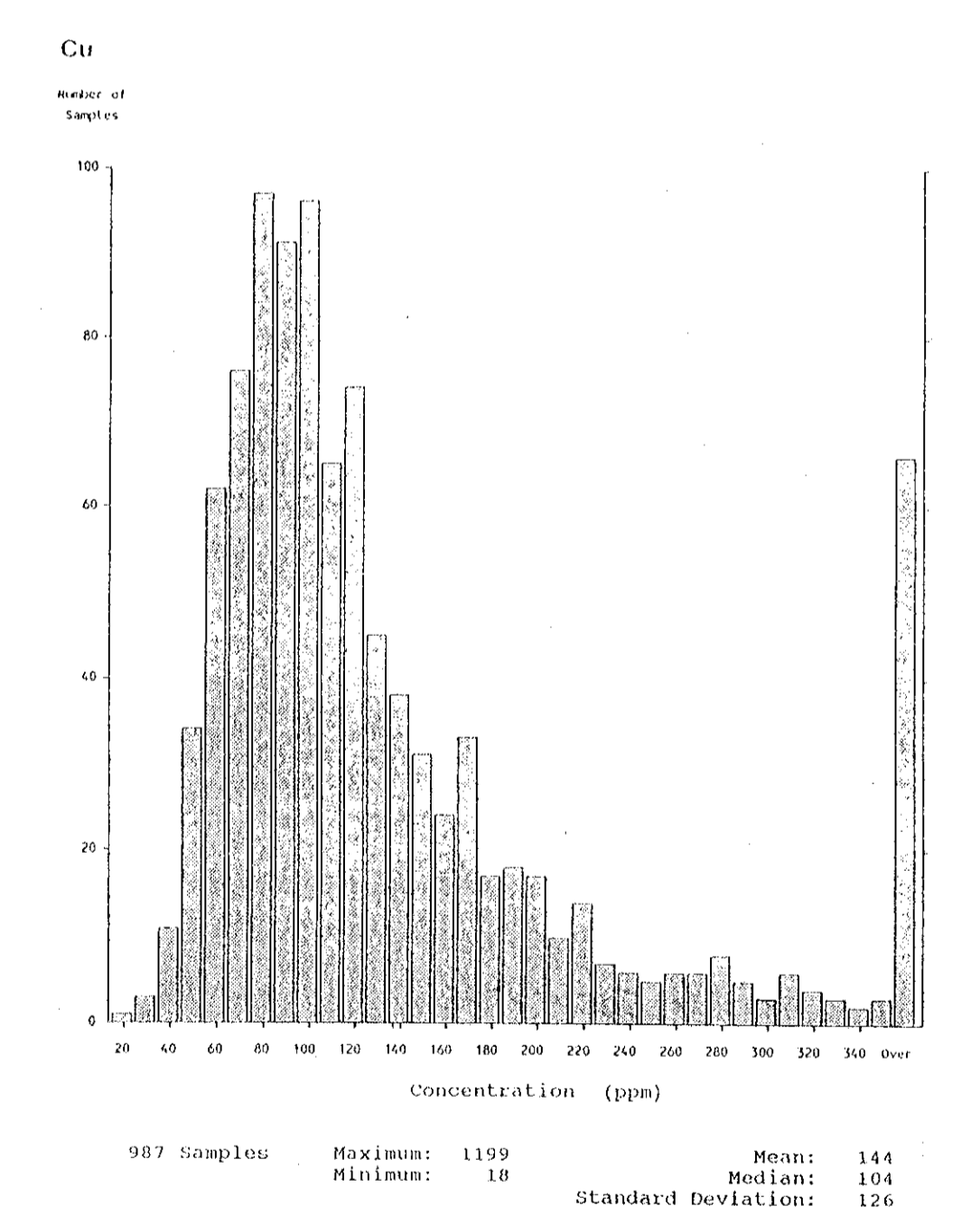
DRAWN TGF	DATE 10/90	FILE CODE 104J4E	FIGURE FIG. 5e
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LEGEND

- Grid Station, Cu ppm
-
- Contour Interval**
- < 150 ppm
- 150 - 274 ppm
- 275 - 400 ppm
- > 400 ppm



NORTH AMERICAN METALS CORP.

GOLDEN BEAR ROAD J.V. PROJECT
WOLVERINE PROPERTY
WOLVERINE GRID
CONTOURED SOIL GEOCHEMISTRY
Cu (ppm) VALUE MAP

DRAWN TGF	DATE 10/90	FILE CODE 104J4E	FIGURE FIG. 5f
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