

VOLUME 2
PLATE 39-59

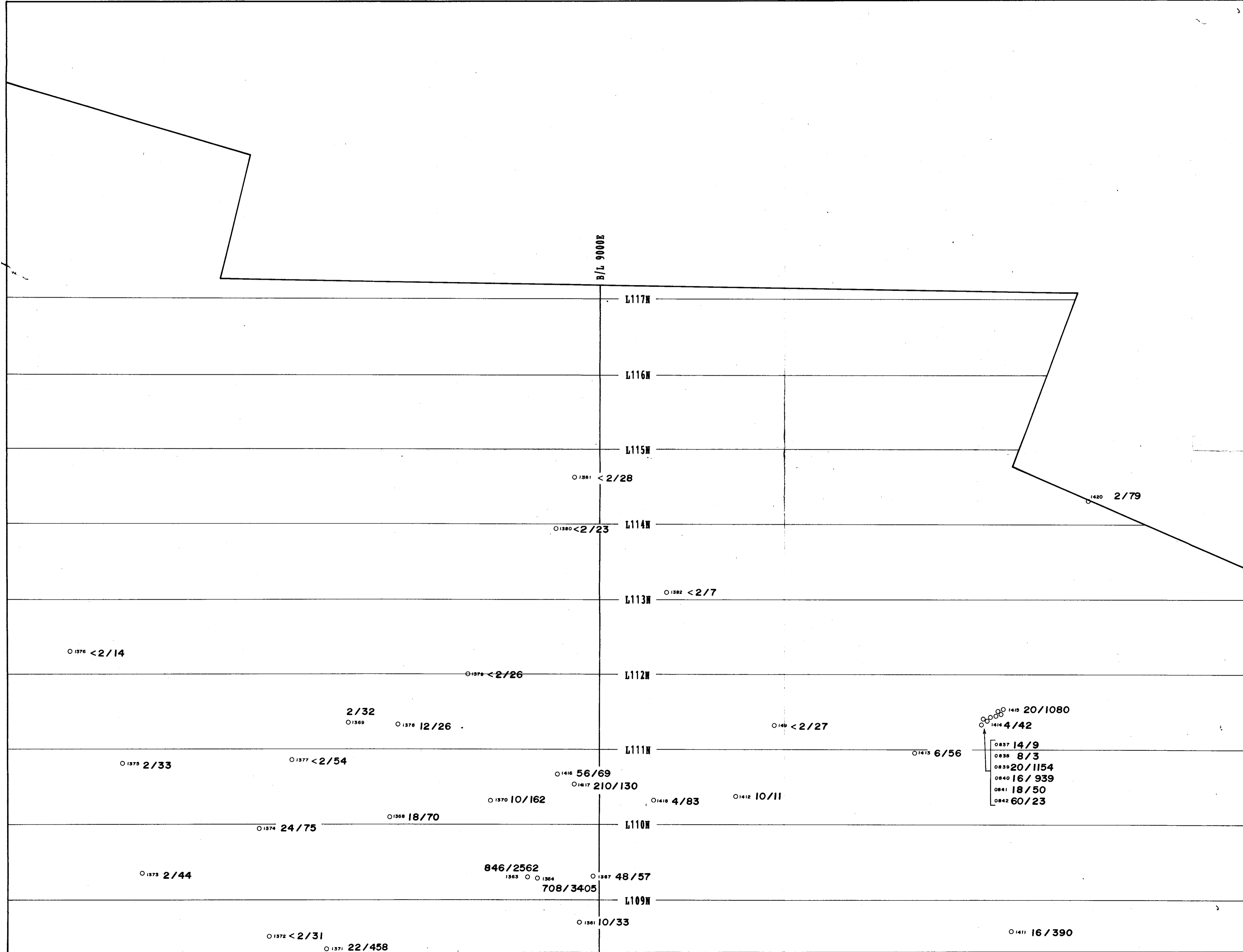
Part 3
M 3

21240

PRESTONIA

No. 2013-S1A E198

MADE IN CANADA



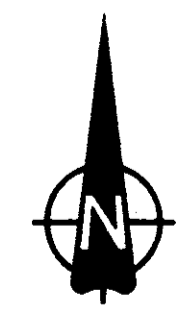
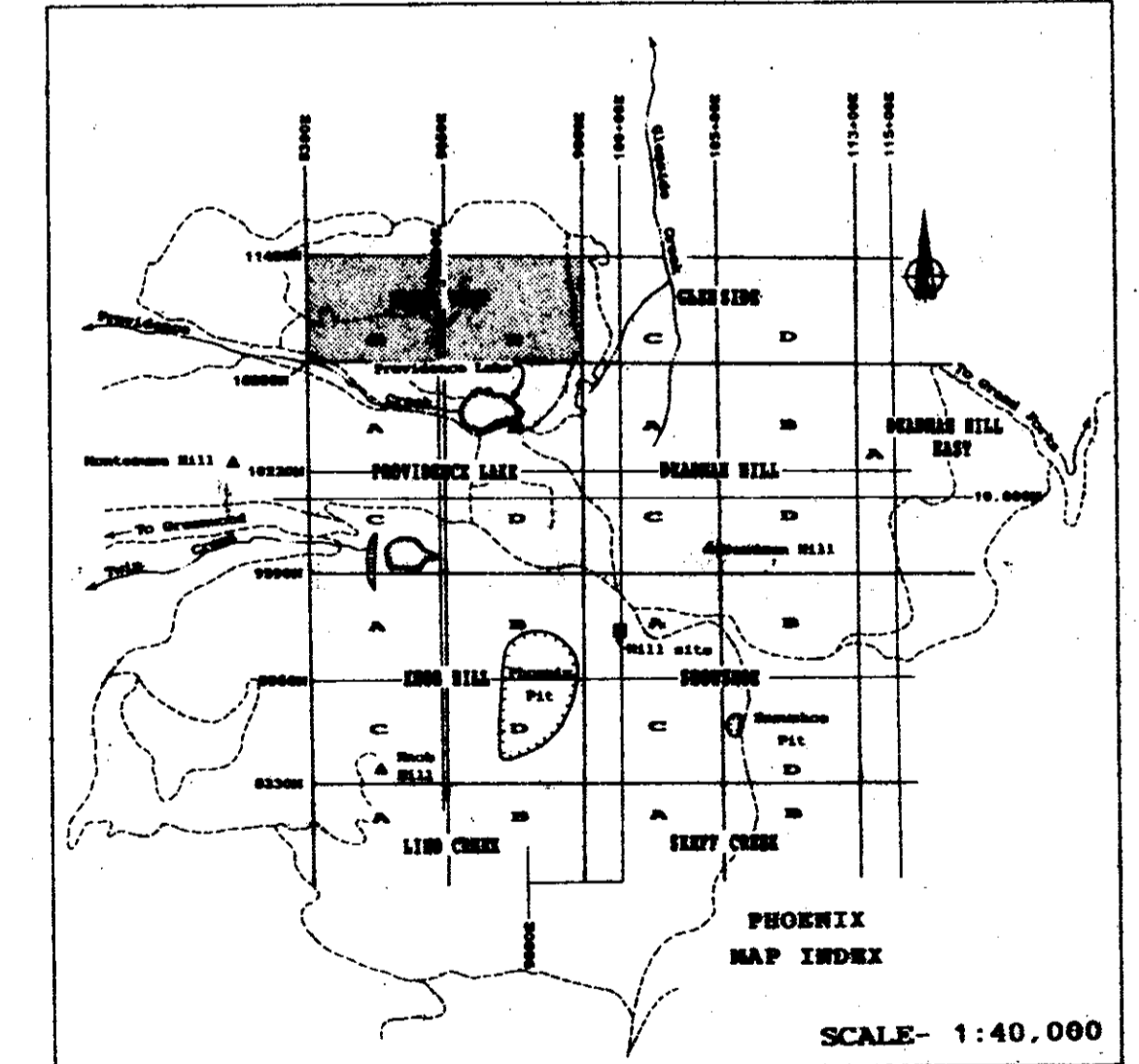
LEGEND

ROCK SAMPLE:

- 0882 134/1890 Sample N° Gold (ppb)/Copper (ppm)
(.086) Gold in g/ton
- Location less accurately defined
- ⊙ Dump sample

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

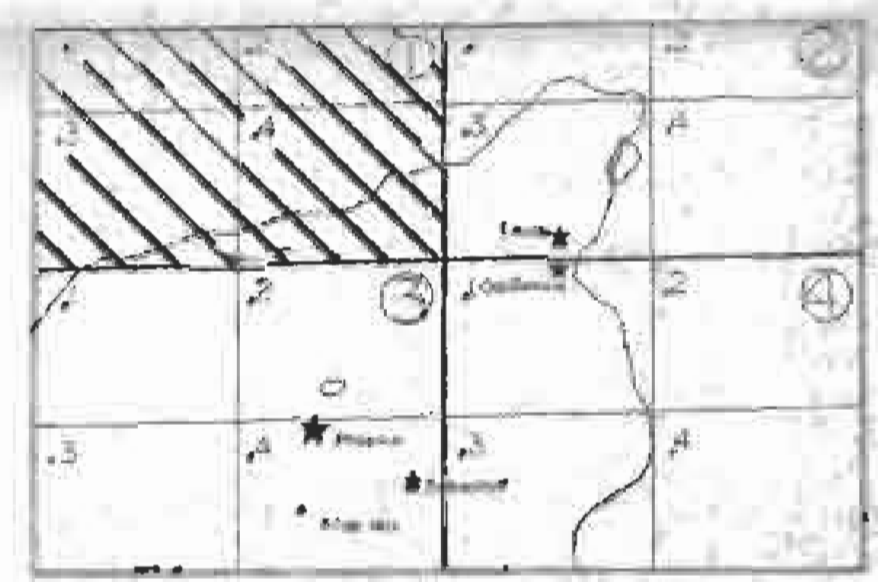
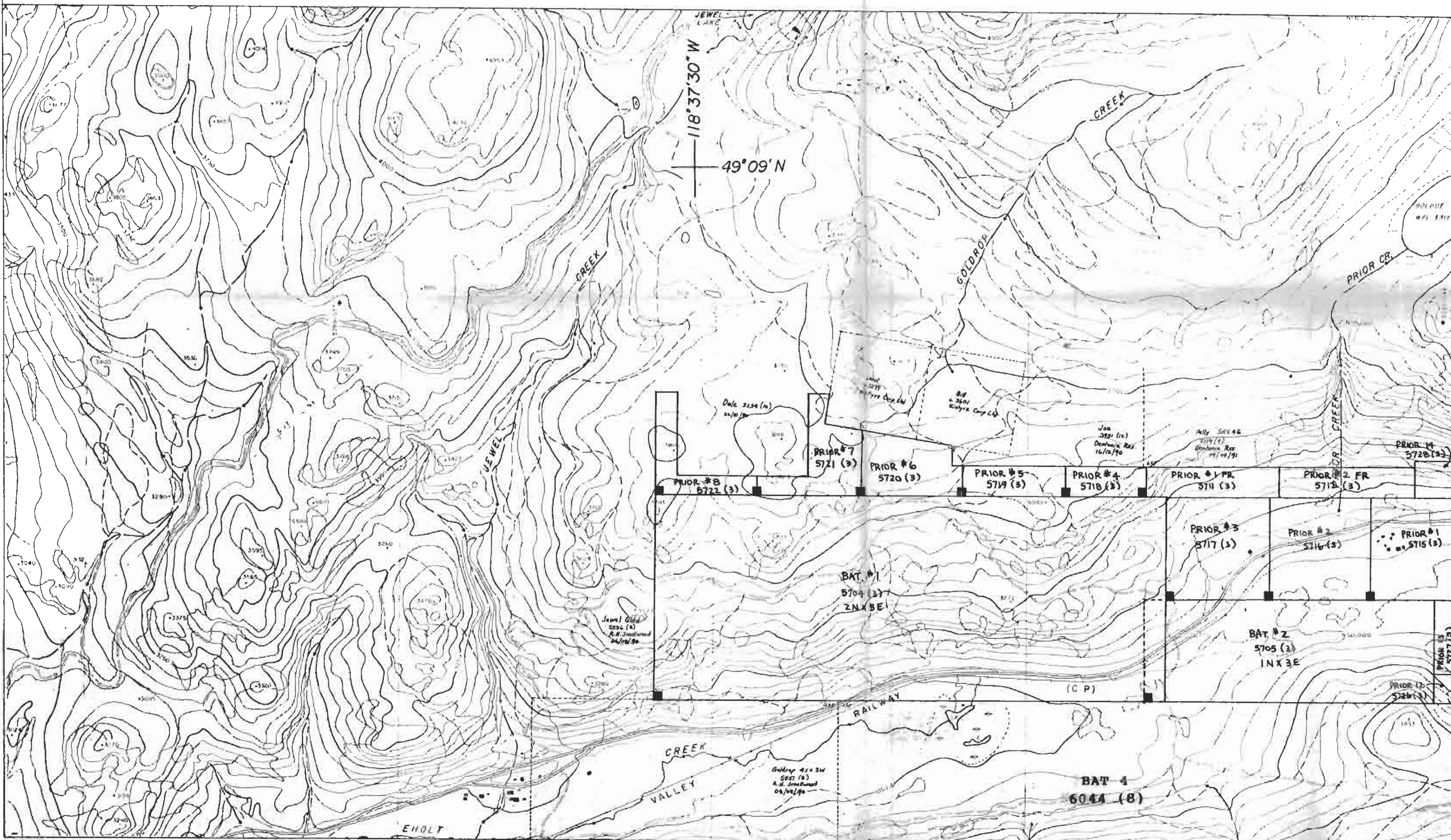
21,240
Part 3 of 3



BATTLE MOUNTAIN (CANADA) INC.

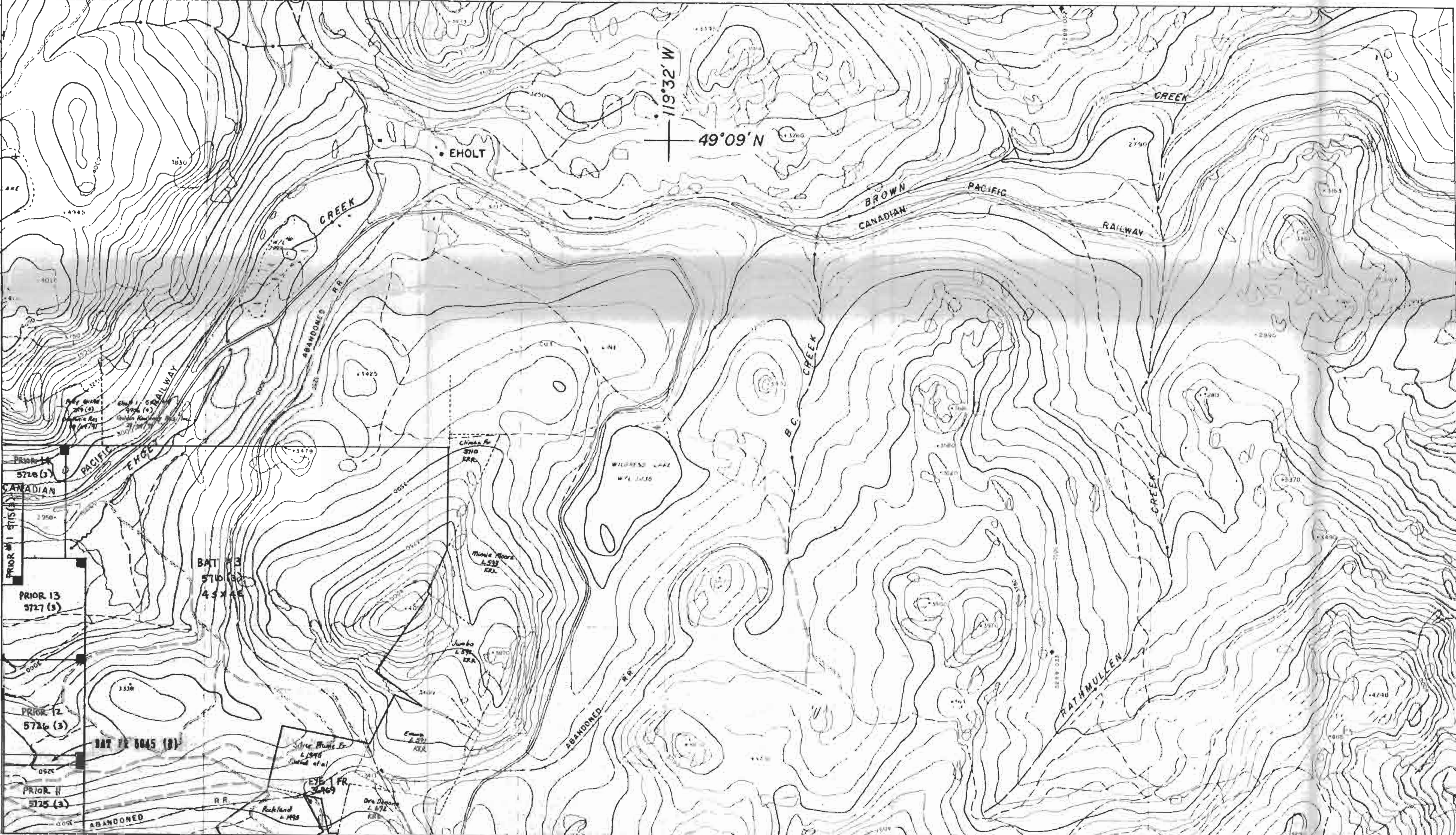
**NORTH VIEW
ROCK
GEOCHEMISTRY**

PROJECT No.: #7596	DATA BY:
N.T.S. 82E/2	DRAWN BY: Sphinx Draft. Serv.
DRAWING No.: 39	DATE: APRIL, 1991
SCALE: 1:2500	0 20 40 60 80 100 150 200 METERS



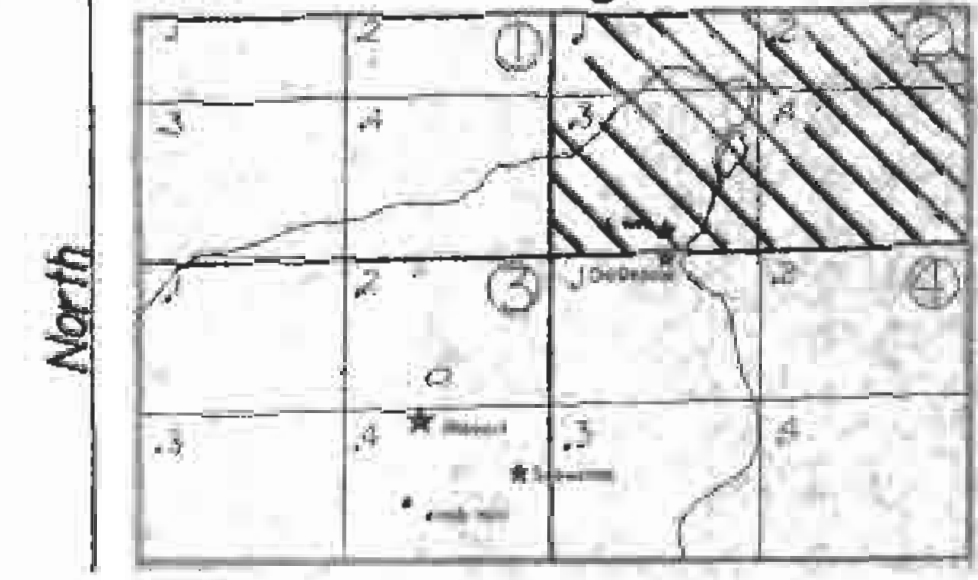
GEOLOGICAL BRANCH
 ASSESSMENT REPORT
21,240
Part 3 of 3

BATTLE MOUNTAIN (CANADA) INC.	
PHOENIX PROJECT	
CLAIM MAP	
PROJECT No. 75-96	DATA BY
SHEET 82E-2	DRAWN BY
DRAWING No. 11 of 4	DATE 20.06.90 rev.
SCALE 1:10,000	



GEOLOGICAL BRANCH
ASSESSMENT REPORT

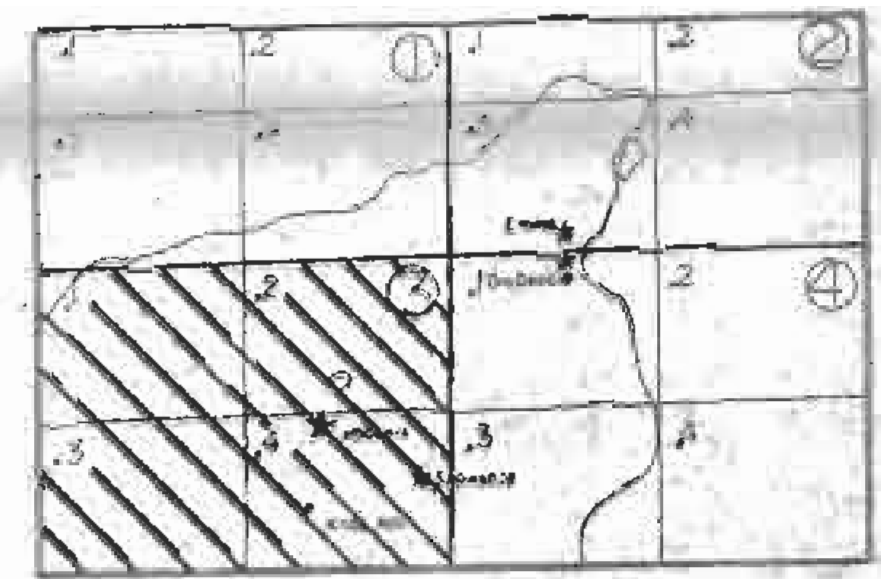
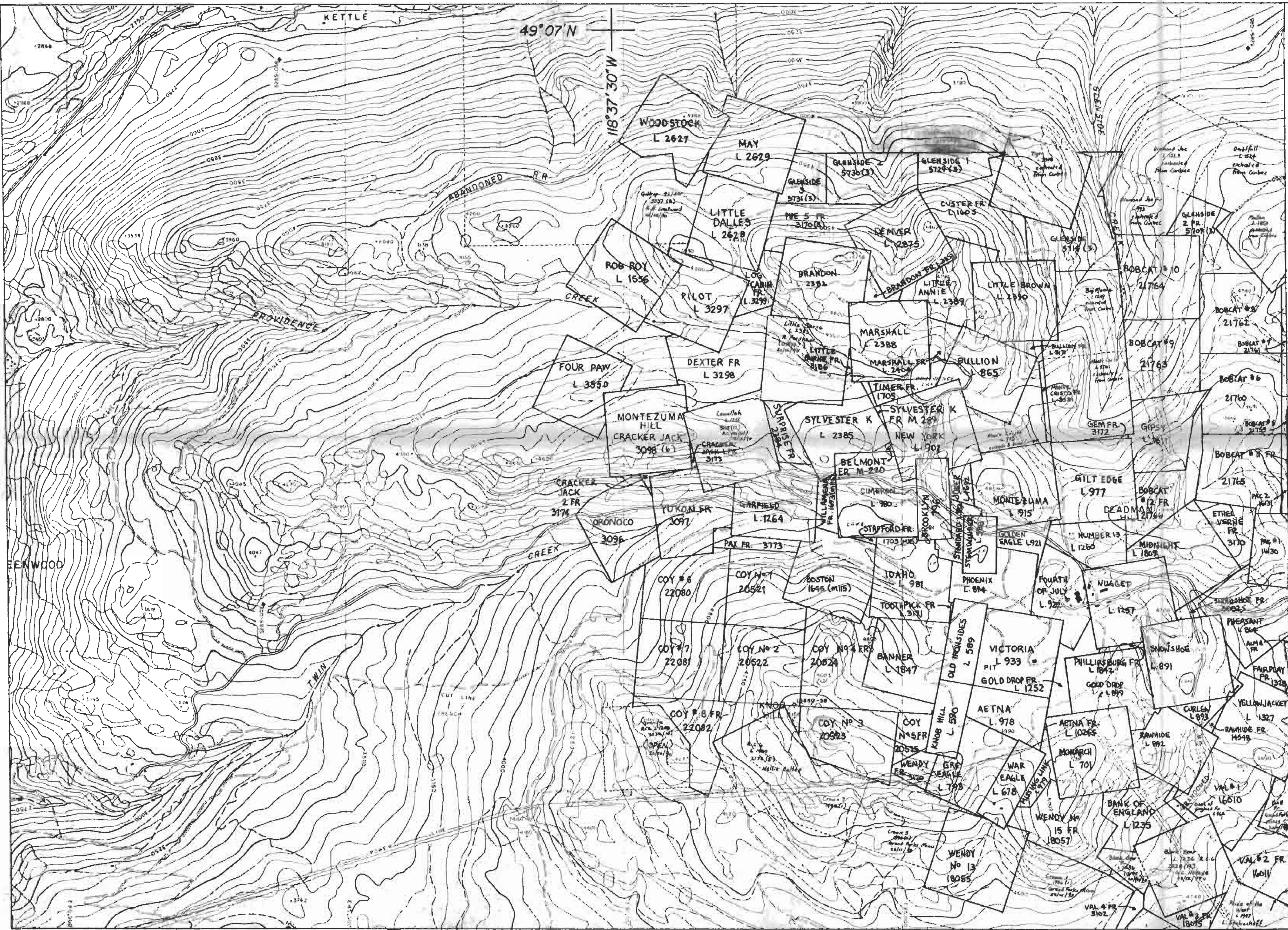
21,240
Part 3 of 3



BATTLE MOUNTAIN (CANADA) INC.
PHOENIX PROJECT

CLAIM MAP

PROJECT NO	75-96	DATA BY	
NTS	B2E-2	DRAWN BY	
DRAWING NO	41	DATE	20-06-90 rev.
SCALE	1:10000		



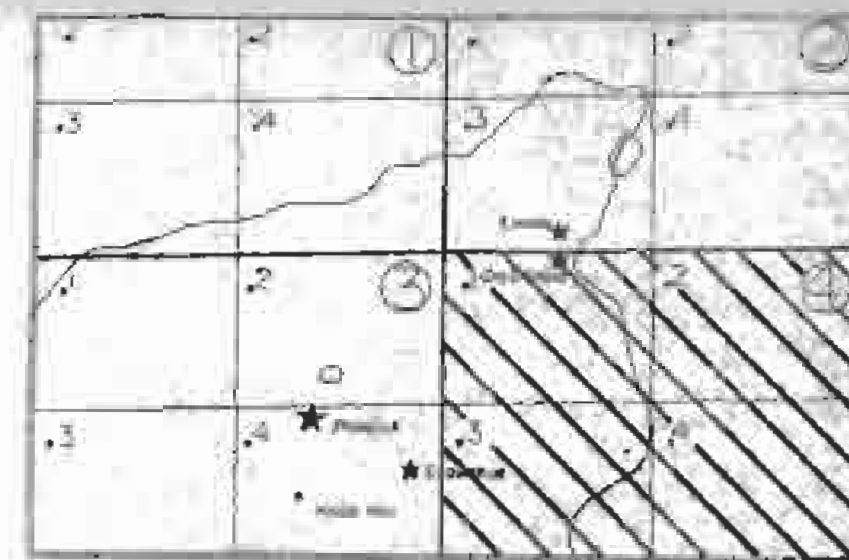
GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,240
Part 3 of 3

BATTLE MOUNTAIN (CANADA) INC.
PHOENIX PROJECT

CLAIM MAP

PROJECT No	75-96	DRAWN BY	
NTS	82E-2	DATE	20-06-90
DRAWING No	11	3 of 4	
SCALE	1:10,000		



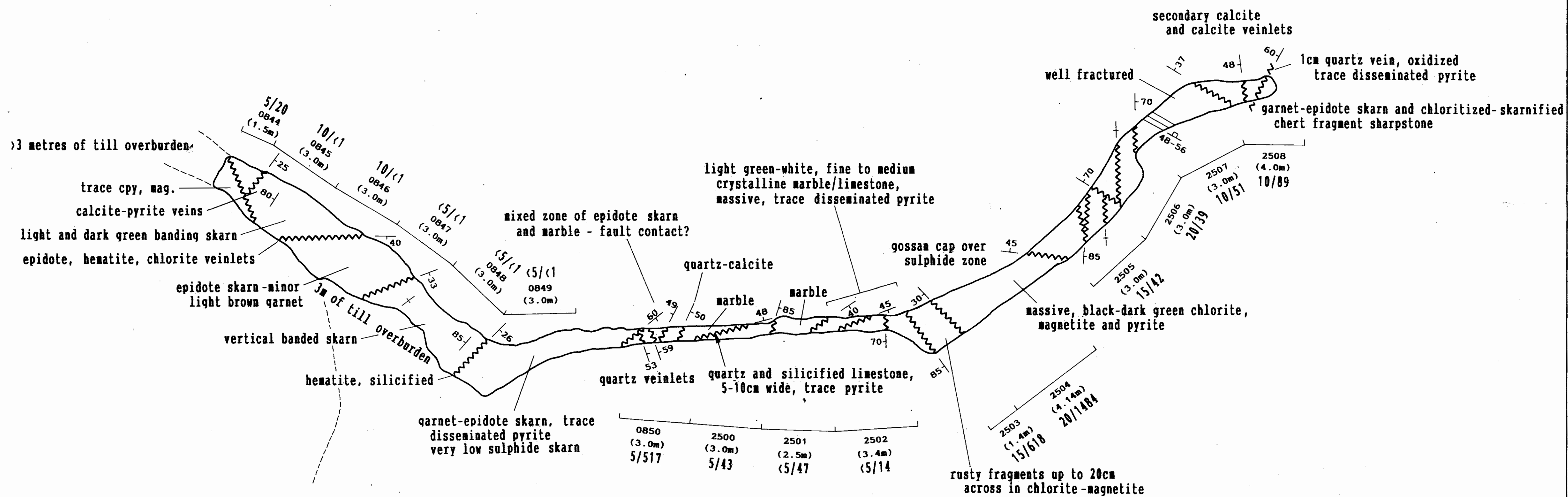
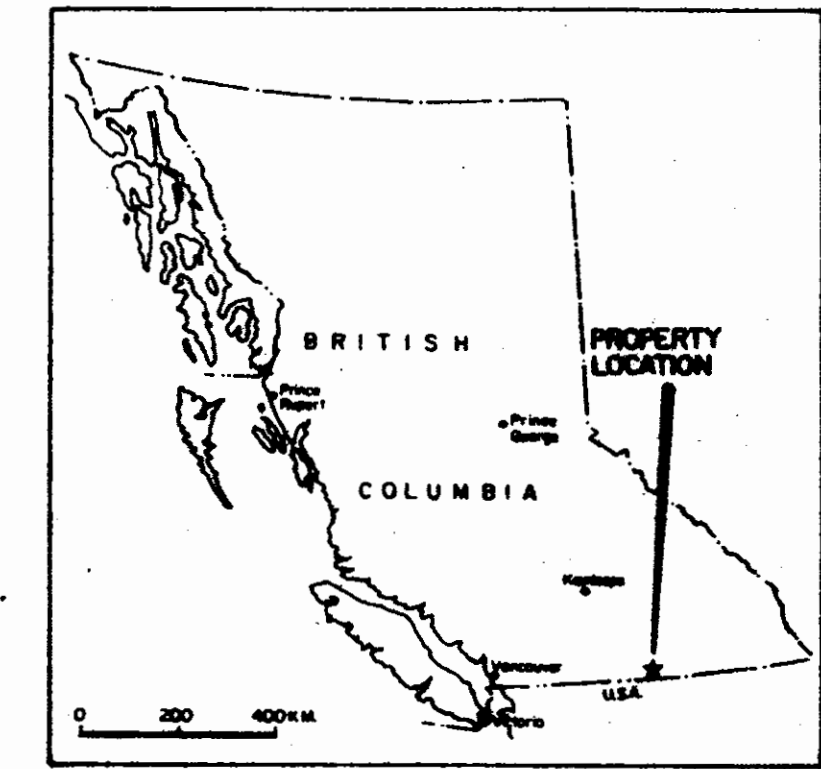
GEOLOGICAL BRANCH
ASSESSMENT REPORT

North
21,240
Part 3 of 3

BATTLE MOUNTAIN (CANADA) INC.
PHOENIX PROJECT

CLAIM MAP

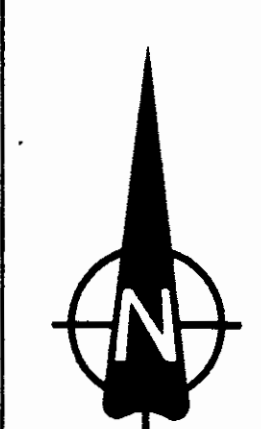
PROJECT No: 75-96	DATE BY:
NTS: 82F-1,2	DRAWN BY:
DRAWING No: 41	DATE: 20-06-90 rev.
SCALE: 1:10,000	



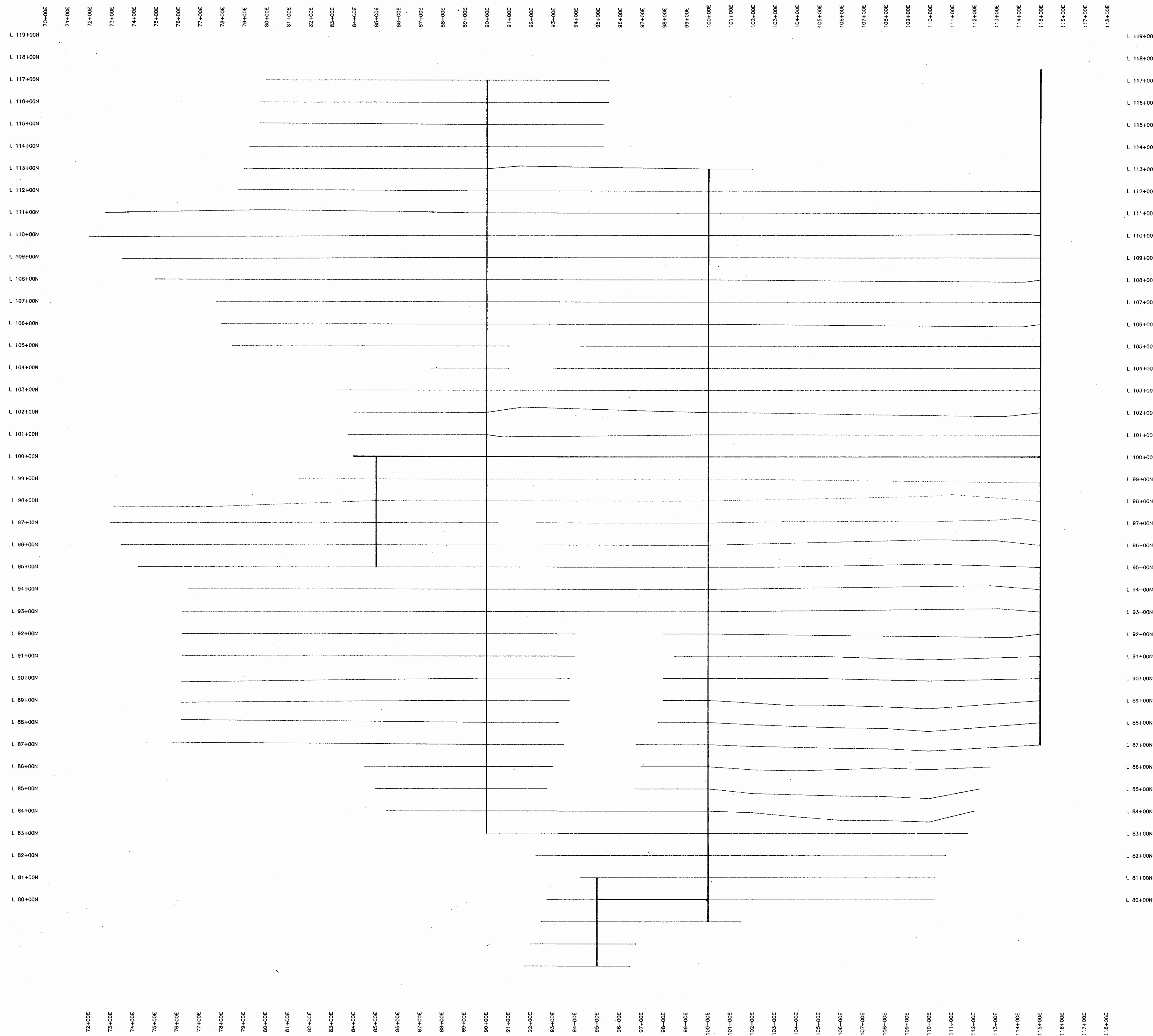
- LEGEND**
- |— strike (vertical - dipping)
 - |— joint (vertical - dipping)
 - |— fault
 - 0850 Sample number
 - (3.0m) Sample length
 - 5/20 Au ppb/Cu ppm Assays

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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Part 3 of 3



BATTLE MOUNTAIN (CANADA) INC.	
PHOENIX PROJECT	
HERBY TRENCH	
PROJECT No: 75-96	DATA BY:
N.T.S. 82E/2	DRAWN BY: L.L.
DRAWING No: 44	DATE: OCTOBER 1990
SCALE: 1:100	0 1 2 3 4 5 6 Metres

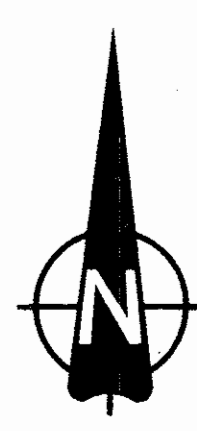


— Chain and compass lines
 — Survey lines

GEOLOGICAL BRANCH
 ASSESSMENT REPORT

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Part 3 of 3



PROJECT No. #7596		DATA BY:
N.T.S. 82E/2		DRAWN BY:
DRAWING No. 45		DATE: April, 1991
SCALE: 1:10,000		

BATTLE MOUNTAIN (CANADA) INC.

BATTLE MOUNTAIN
 1990 GRID

6800 E 6900 E 7000 E 7100 E 7200 E 7300 E 7400 E 7500 E 7600 E 7700 E 7800 E 7900 E 8000 E 8100 E 8200 E 8300 E 8400 E 8500 E 8600 E 8700 E 8800 E 8900 E 9000 E 9100 E 9200 E 9300 E 9400 E 9500 E 9600 E 9700 E 9800 E



GEOLOGICAL BRANCH
ASSESSMENT REPORT

*Part 3
of 3*

21,240

LEGEND

CONTOUR INTERVALS

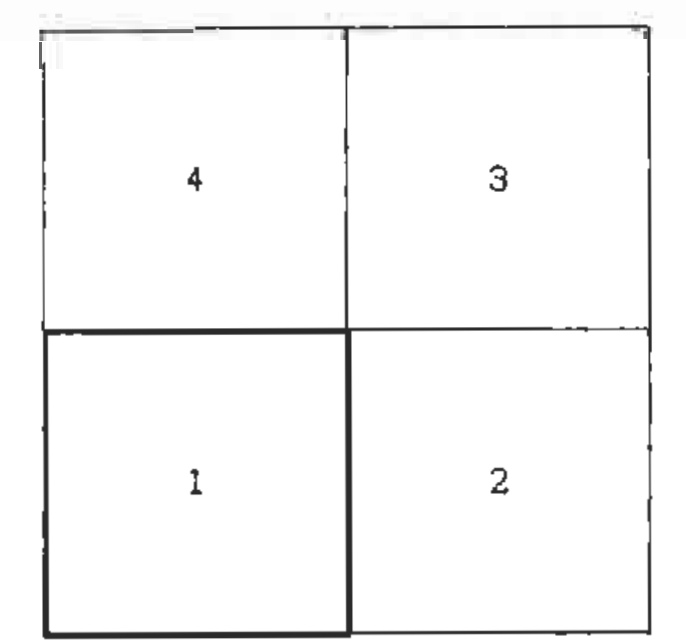
- 100 nT
- 500 nT
- 2500 nT

BASE LEVEL OF 56000 nT REMOVED FROM ALL POSTINGS

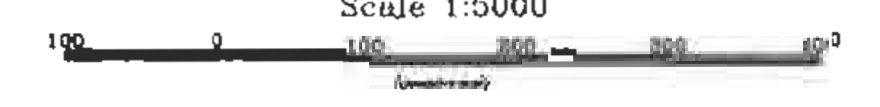
INSTRUMENT

- EDA OMNI PLUS
- EDA OMNI IV BASESTATION

MAP SECTIONS



Scale 1:5000

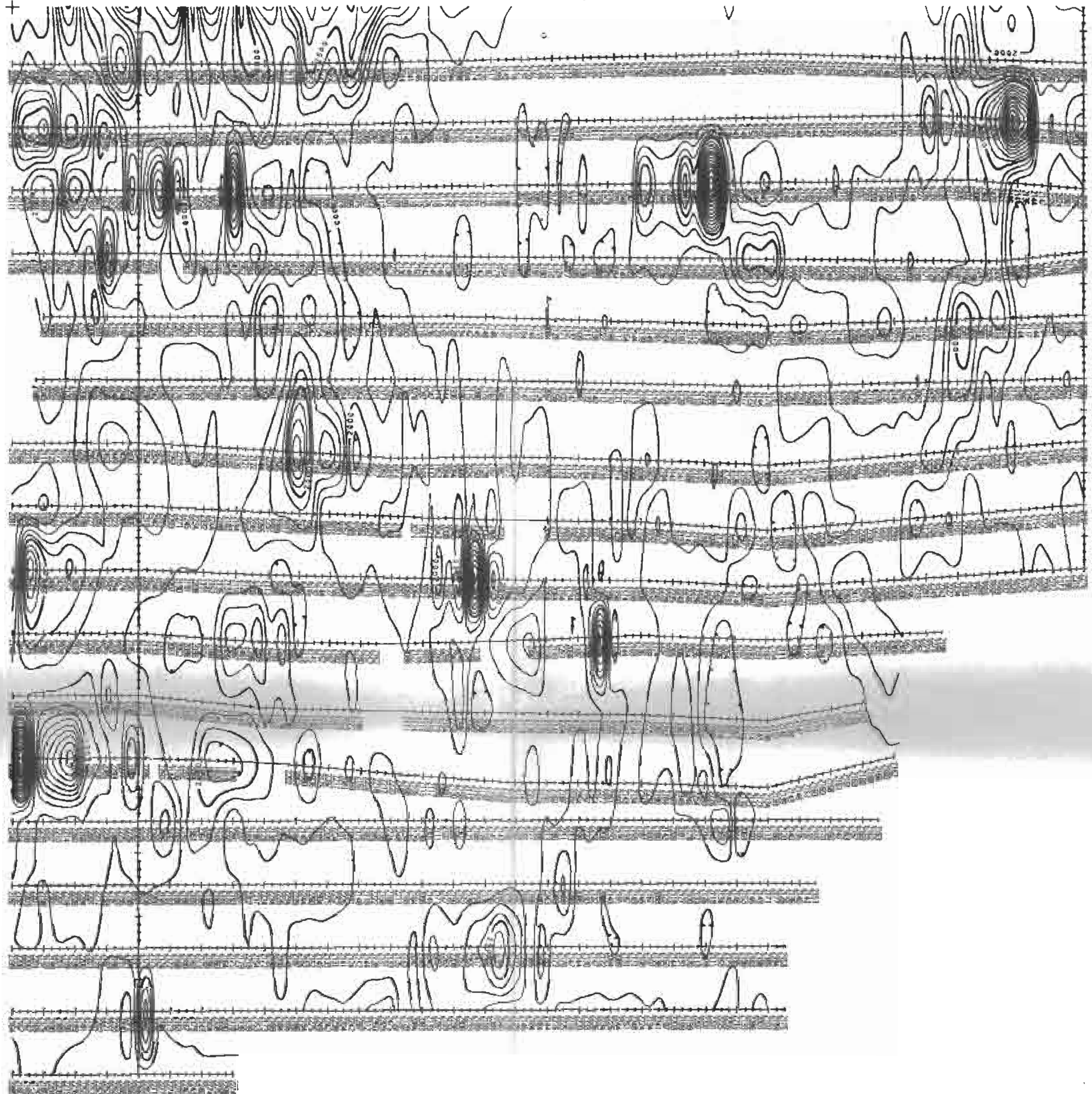


BATTLE MOUNTAIN (CANADA) INC.
PHOENIX PROJECT Greenwood Mining Division
TOTAL FIELD MAGNETIC CONTOURS 1 of 4 NTS 82E/2
Map Scale 1 : 5000 Drawing : 46
LLOYD GEOPHYSICS INC.

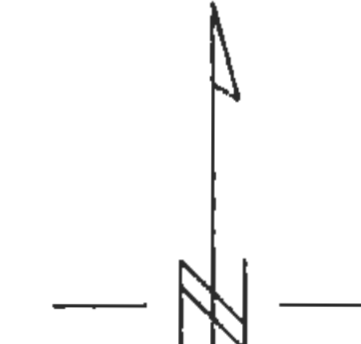
6800 E 6900 E 7000 E 7100 E 7200 E 7300 E 7400 E 7500 E 7600 E 7700 E 7800 E 7900 E 8000 E 8100 E 8200 E 8300 E 8400 E 8500 E 8600 E 8700 E 8800 E 8900 E 9000 E 9100 E 9200 E 9300 E 9400 E 9500 E 9600 E 9700 E 9800 E

9800 E 9900 E 10000 E 10100 E 10200 E 10300 E 10400 E 10500 E 10600 E 10700 E 10800 E 10900 E 11000 E 11100 E 11200 E 11300 E 11400 E 11500 E 11600 E 11700 E 11800 E 11900 E 12000 E 12100 E 12200 E 12300 E 12400 E 12500 E 12600 E 12700 E 12800 E

L9500 N
L9400 N
L9300 N
L9200 N
L9100 N
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L7500 N
L7400 N



9800 E 9900 E 10000 E 10100 E 10200 E 10300 E 10400 E 10500 E 10600 E 10700 E 10800 E 10900 E 11000 E 11100 E 11200 E 11300 E 11400 E 11500 E 11600 E 11700 E 11800 E 11900 E 12000 E 12100 E 12200 E 12300 E 12400 E 12500 E 12600 E 12700 E 12800 E



GEOLOGICAL BRANCH
ASSESSMENT REPORT

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of 3

LEGEND

CONTOUR INTERVALS

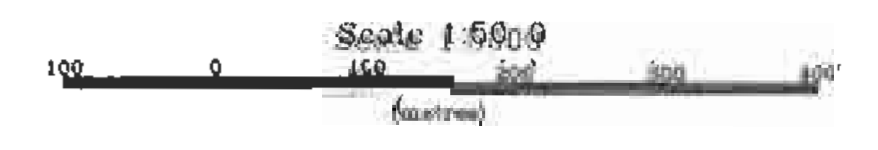
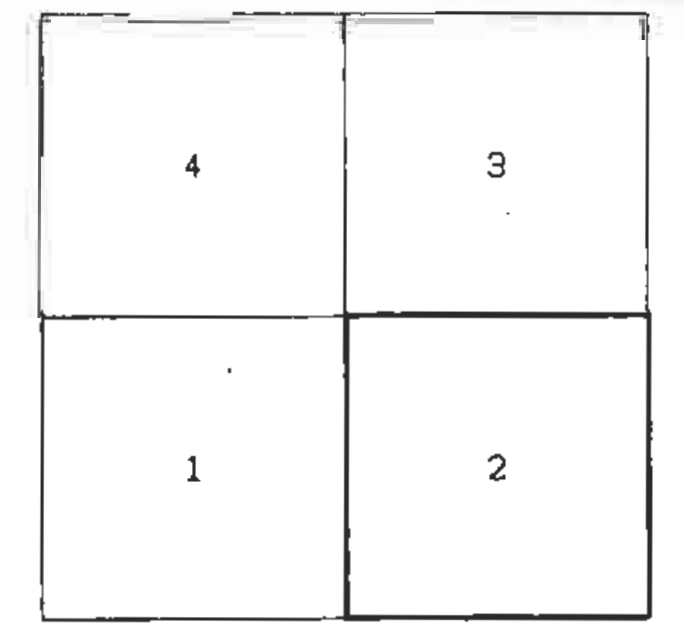
—	100 nT
—	500 nT
—	2500 nT

BASE LEVEL OF 56000 nT REMOVED FROM ALL POSTINGS

INSTRUMENT

EDA OMNI PLUS
EDA OMNI IV BASESTATION

MAP SECTIONS



BATTLE MOUNTAIN (CANADA) INC.

PHOENIX PROJECT
Greenwood Mining Division

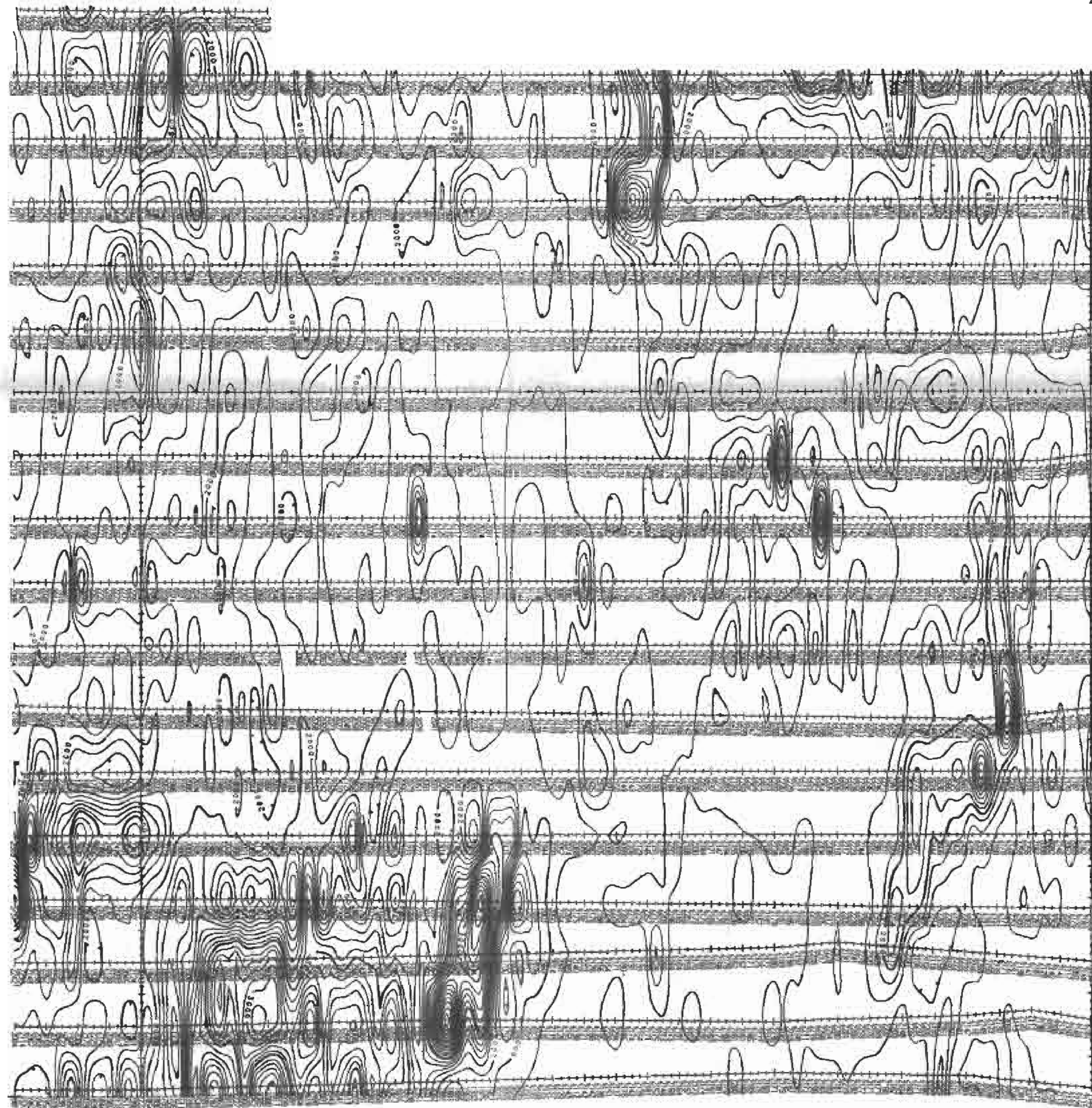
TOTAL FIELD MAGNETIC CONTOURS
2 of 4
NTS 82E/2

Map Scale 1 : 5000 Drawing : 47

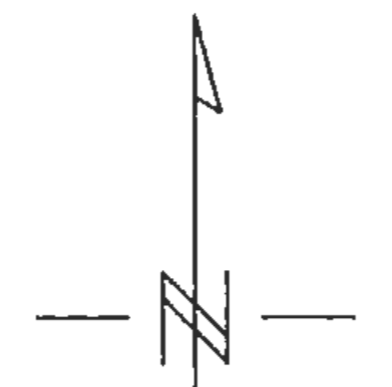
LLOYD GEOPHYSICS INC.

9800 E 9900 E 10000 E 10100 E 10200 E 10300 E 10400 E 10500 E 10600 E 10700 E 10800 E 10900 E 11000 E 11100 E 11200 E 11300 E 11400 E 11500 E 11600 E 11700 E 11800 E 11900 E 12000 E 12100 E 12200 E 12300 E 12400 E 12500 E 12600 E 12700 E 12800 E

L11700 N
L11800 N
L11500 N
L11400 N
L11300 N
L11200 N
L11100 N
L11000 N
L10900 N
L10800 N
L10700 N
L10600 N
L10500 N
L10400 N
L10300 N
L10200 N
L10100 N
L10000 N
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L9700 N
L9600 N



9800 E 9900 E 10000 E 10100 E 10200 E 10300 E 10400 E 10500 E 10600 E 10700 E 10800 E 10900 E 11000 E 11100 E 11200 E 11300 E 11400 E 11500 E 11600 E 11700 E 11800 E 11900 E 12000 E 12100 E 12200 E 12300 E 12400 E 12500 E 12600 E 12700 E 12800 E



GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,240

Part 3
of 3

LEGEND

CONTOUR INTERVALS

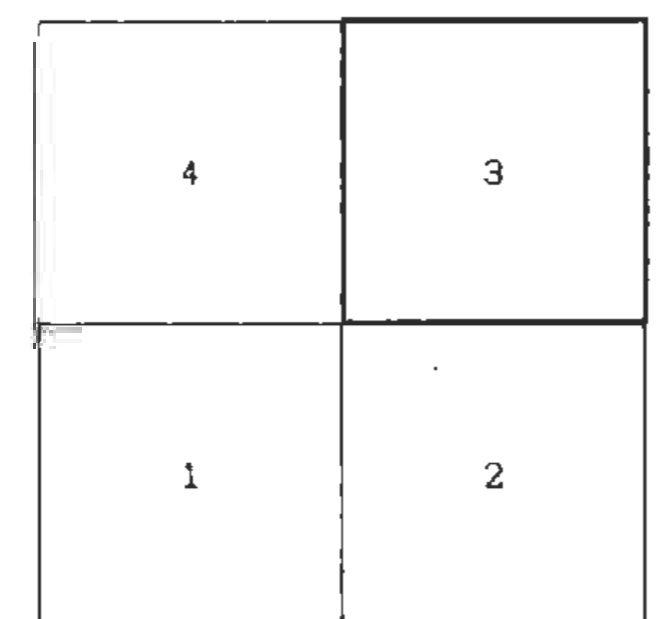
- 100 nT
- 500 nT
- 2500 nT

BASE LEVEL OF 56000 nT REMOVED FROM ALL POSTINGS

INSTRUMENT

- EDA OMNI PLUS
- EDA OMNI IV BASESTATION

MAP SECTIONS



BATTLE MOUNTAIN (CANADA) INC.

PHOENIX PROJECT
Greenwood Mining Division

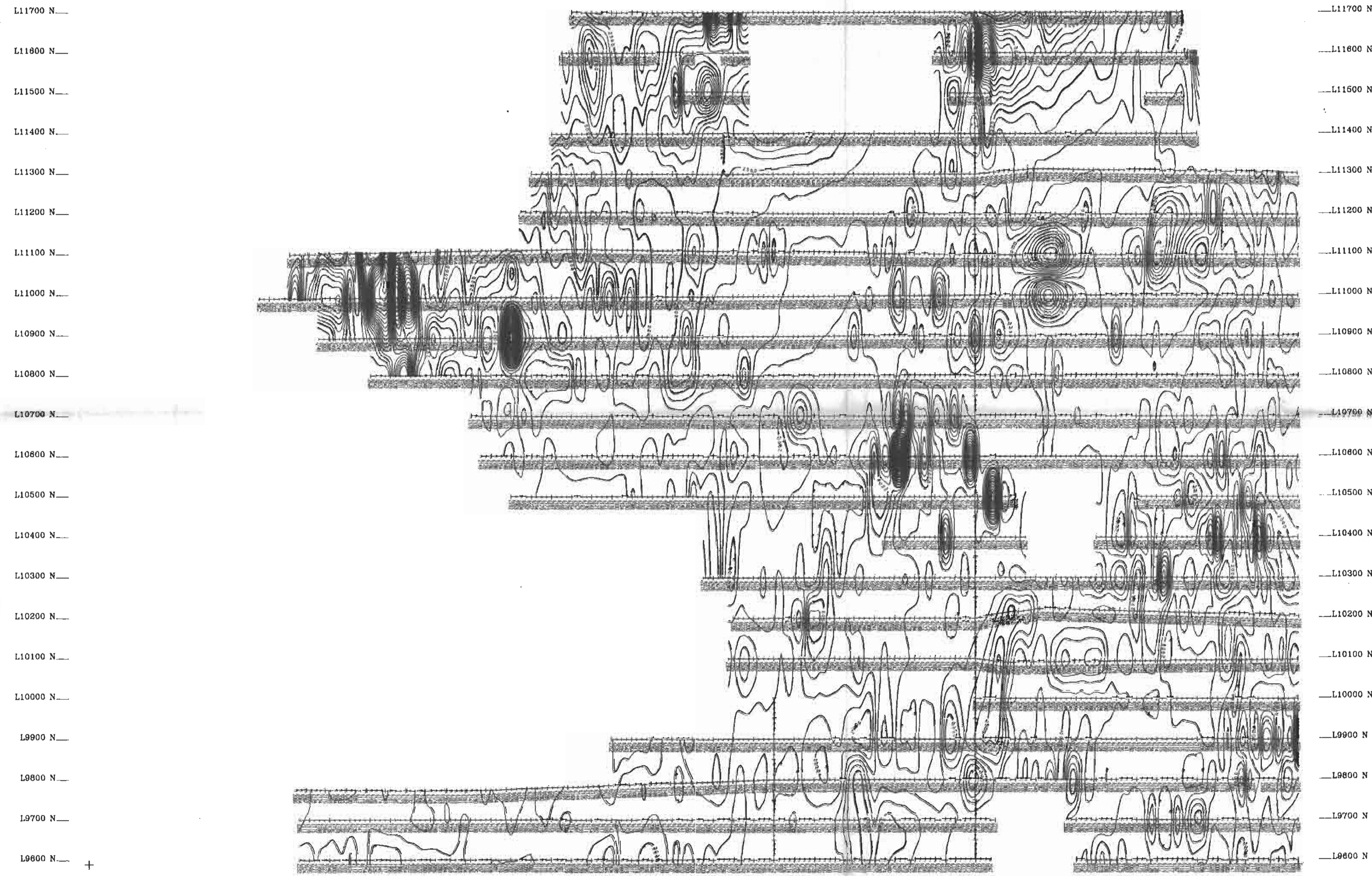
TOTAL FIELD MAGNETIC CONTOURS

3 of 4
NTS 82E/2

Map Scale 1 : 5000 Drawing : 48

LLOYD GEOPHYSICS INC.

6800 E 6900 E 7000 E 7100 E 7200 E 7300 E 7400 E 7500 E 7600 E 7700 E 7800 E 7900 E 8000 E 8100 E 8200 E 8300 E 8400 E 8500 E 8600 E 8700 E 8800 E 8900 E 9000 E 9100 E 9200 E 9300 E 9400 E 9500 E 9600 E 9700 E 9800 E



GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,240

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of 3

LEGEND

CONTOUR INTERVALS

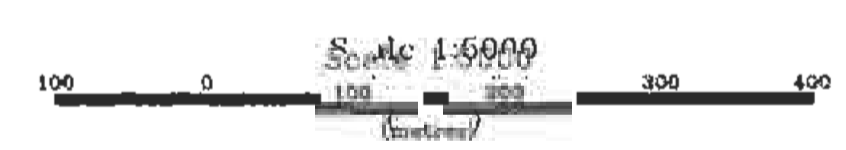
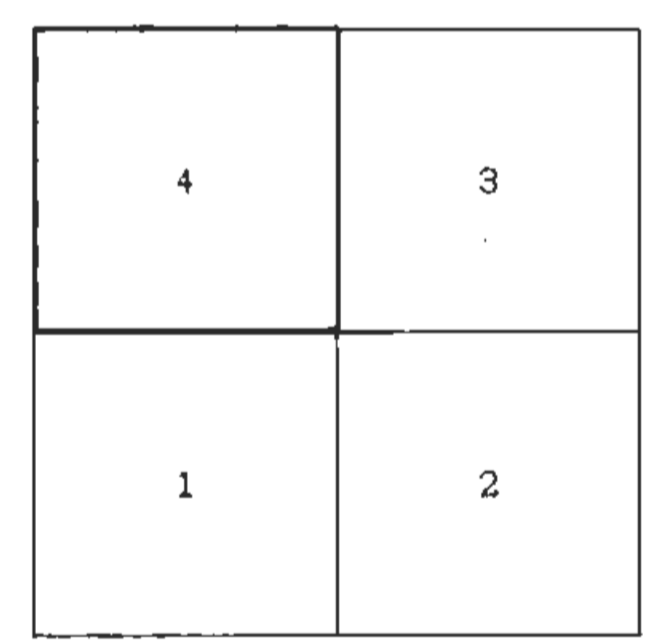
- 100 nT
- 500 nT
- 2500 nT

BASE LEVEL OF 56000 nT REMOVED FROM ALL POSTINGS

INSTRUMENT

- EDA OMNI PLUS
- EDA OMNI IV BASESTATION

MAP SECTIONS



BATTLE MOUNTAIN (CANADA) INC.

PHOENIX PROJECT
Greenwood Mining Division

TOTAL FIELD MAGNETIC CONTOURS
4 of 4
NTS 82E/2

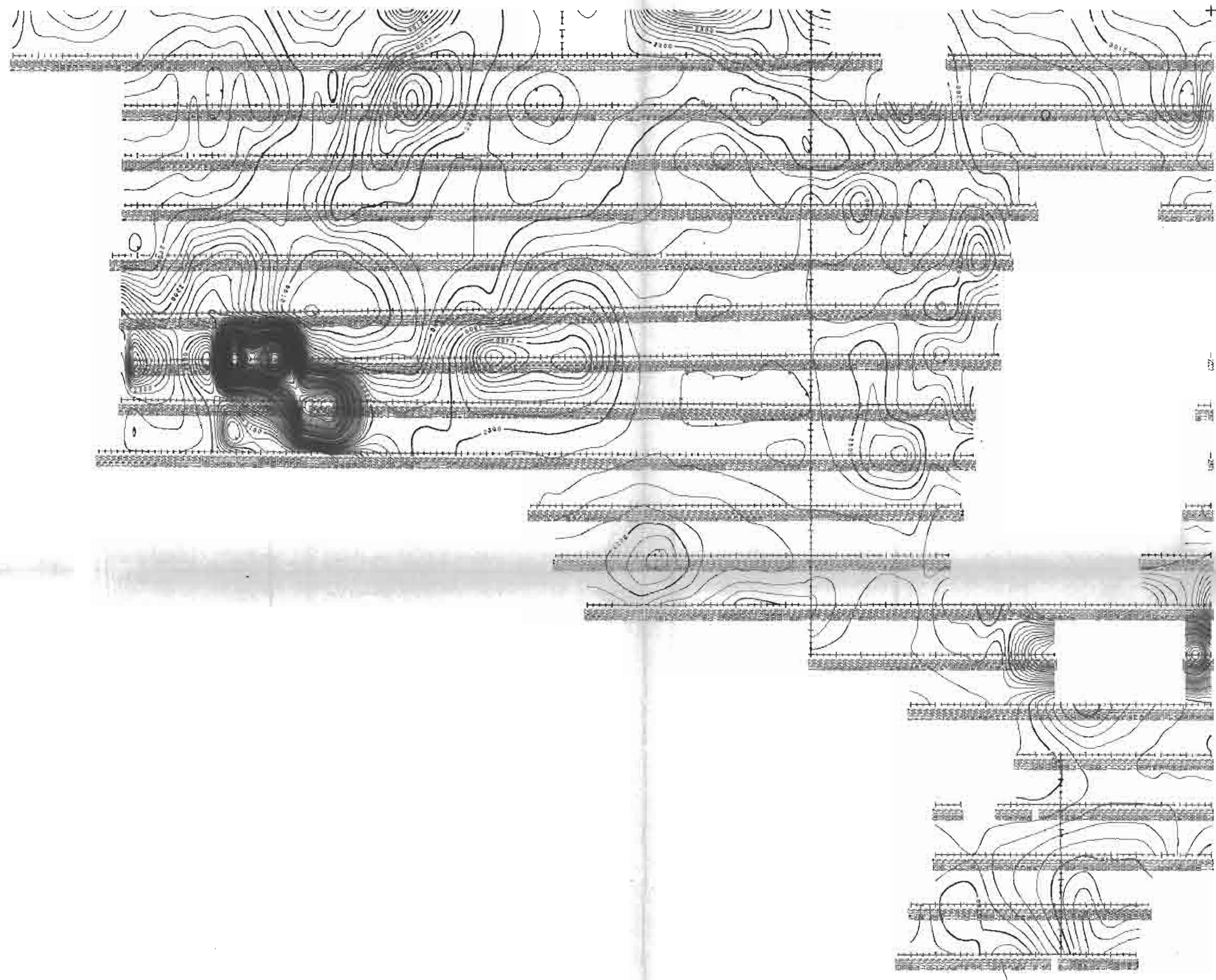
Map Scale 1 : 5000 Drawing : 49

LLOYD GEOPHYSICS INC.

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6800 E 6900 E 7000 E 7100 E 7200 E 7300 E 7400 E 7500 E 7600 E 7700 E 7800 E 7900 E 8000 E 8100 E 8200 E 8300 E 8400 E 8500 E 8600 E 8700 E 8800 E 8900 E 9000 E 9100 E 9200 E 9300 E 9400 E 9500 E 9600 E 9700 E 9800 E

L9500 N
L9400 N
L9300 N
L9200 N
L9100 N
L9000 N
L8900 N
L8800 N
L8700 N
L8600 N
L8500 N
L8400 N
L8300 N
L8200 N
L8100 N
L8000 N
L7900 N
L7800 N
L7700 N
L7600 N
L7500 N
L7400 N



LEGEND

CONTOUR INTERVALS

- 20 nT
- 100 nT
- 500 nT

BASE LEVEL OF 56000 nT REMOVED FROM ALL POSTINGS

INSTRUMENT

- EDA OMNI PLUS
- EDA OMNI IV BASESTATION

MAP SECTIONS

4	3
1	2

FILTERS

NON-LINEAR FILTER

- CUTOFF WAVELENGTH - 100 METRES
- TOLERANCE 5%

LINEAR FILTER (LOW PASS)

- CUTOFF WAVELENGTH - 50 METRES

FILTER COEFFICIENTS

- 0.1944922
- 0.6110156
- 0.1944922

Scale 1:5000



GEOLOGICAL BRANCH
ASSESSMENT REPORT

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*Part 3
of 3*

6800 E 6900 E 7000 E 7100 E 7200 E 7300 E 7400 E 7500 E 7600 E 7700 E 7800 E 7900 E 8000 E 8100 E 8200 E 8300 E 8400 E 8500 E 8600 E 8700 E 8800 E 8900 E 9000 E 9100 E 9200 E 9300 E 9400 E 9500 E 9600 E 9700 E 9800 E

BATTLE MOUNTAIN (CANADA) INC.

PHOENIX PROJECT
Greenwood Mining Division

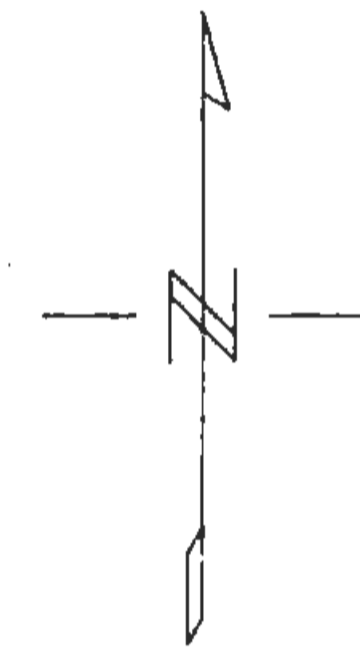
FILTERED
TOTAL FIELD MAGNETIC CONTOURS
1 of 4
NTS 82E/2

Map Scale 1 : 5000 Drawing : 50

LLOYD GEOPHYSICS INC.

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L9500 N
L9400 N
L9300 N
L9200 N
L9100 N
L9000 N
L8900 N
L8800 N
L8700 N
L8600 N
L8500 N
L8400 N
L8300 N
L8200 N
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L7400 N



LEGEND

CONTOUR INTERVALS

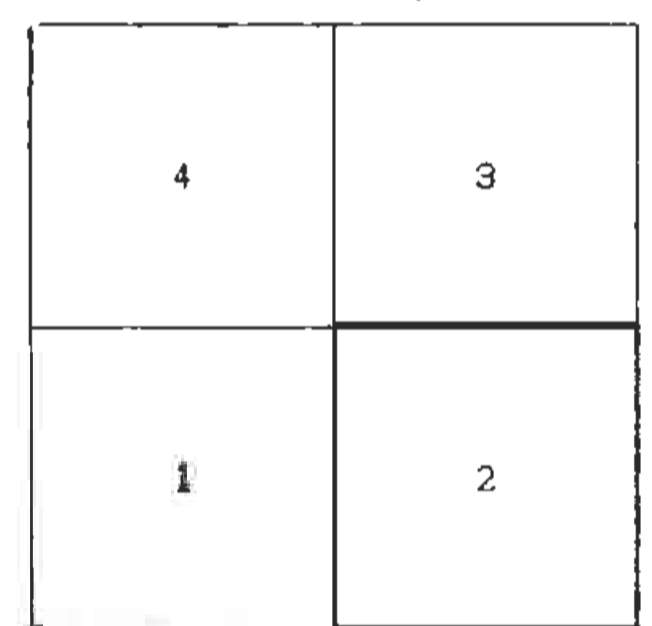
- 20 nT
- 100 nT
- 500 nT

BASE LEVEL OF 56000 nT REMOVED FROM ALL POSTINGS

INSTRUMENT

- EDA OMNI PLUS
- EDA OMNI IV BASESTATION

MAP SECTIONS



FILTERS

NON-LINEAR FILTER

CUTOFF WAVELENGTH - 100 METRES
TOLERANCE 5%

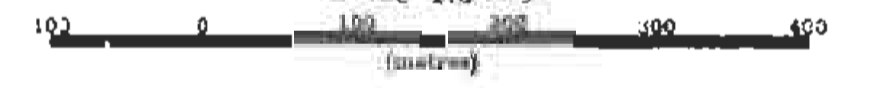
LINEAR FILTER (LOW PASS)

CUTOFF WAVELENGTH - 50 METRES

FILTER COEFFICIENTS

- 0.1944922
- 0.6110156
- 0.1944922

Scale 1:5000



9800 E 9900 E 10000 E 10100 E 10200 E 10300 E 10400 E 10500 E 10600 E 10700 E 10800 E 10900 E 11000 E 11100 E 11200 E 11300 E 11400 E 11500 E 11600 E 11700 E 11800 E 11900 E 12000 E 12100 E 12200 E 12300 E 12400 E 12500 E 12600 E 12700 E 12800 E

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,240 *Part 3*
of 3

BATTLE MOUNTAIN (CANADA) INC.

PHOENIX PROJECT
Greenwood Mining Division

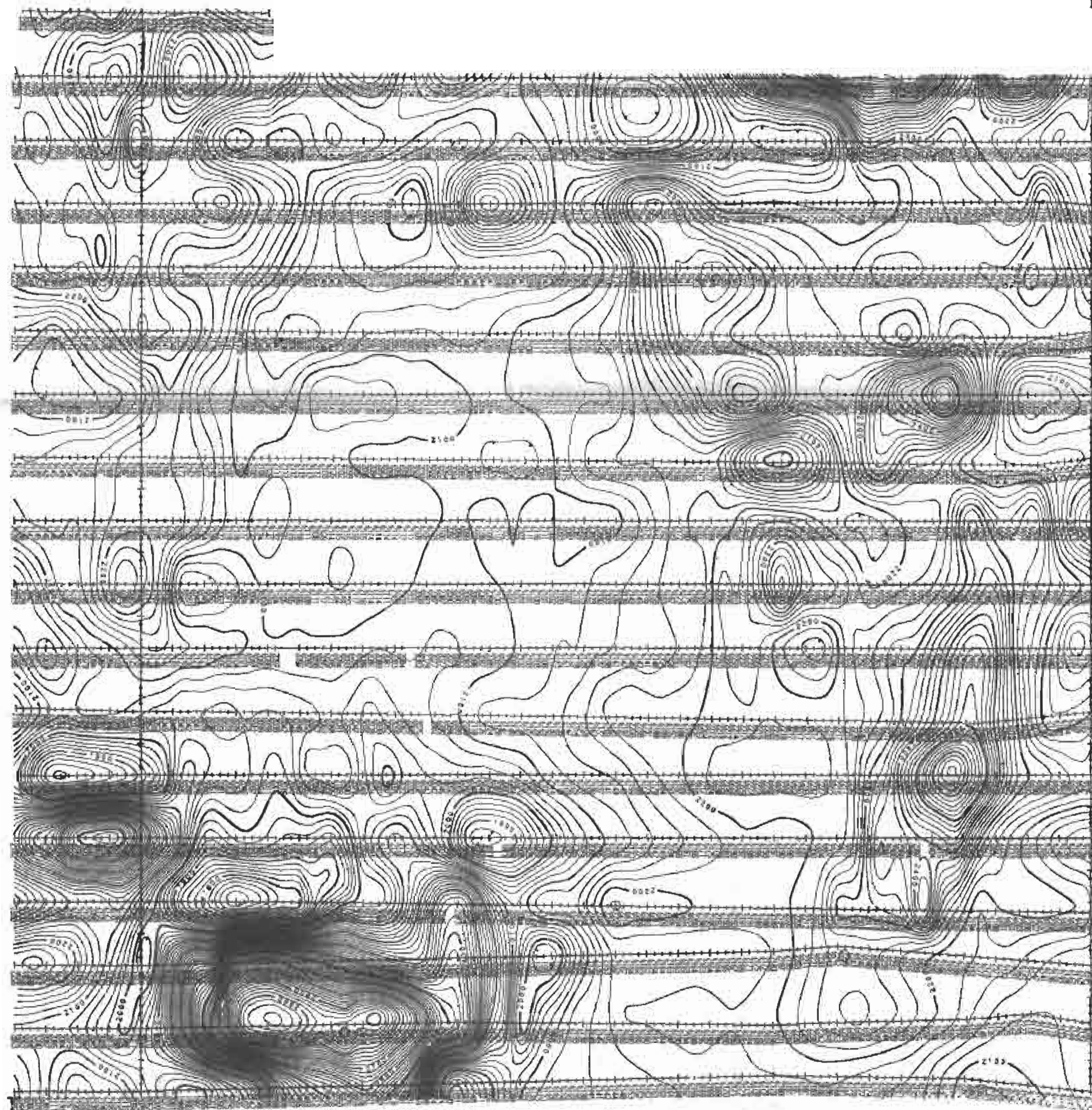
FILTERED
TOTAL FIELD MAGNETIC CONTOURS
2 of 4
NTS 82E/2

Map Scale 1 : 5000 Drawing 51

LLOYD GEOPHYSICS INC.

8800 E 8900 E 10000 E 10100 E 10200 E 10300 E 10400 E 10500 E 10600 E 10700 E 10800 E 10900 E 11000 E 11100 E 11200 E 11300 E 11400 E 11500 E 11600 E 11700 E 11800 E 11900 E 12000 E 12100 E 12200 E 12300 E 12400 E 12500 E 12600 E 12700 E 12800 E

L11700 N
L11600 N
L11500 N
L11400 N
L11300 N
L11200 N
L11100 N
L11000 N
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L9700 N
L9600 N



8800 E 8900 E 10000 E 10100 E 10200 E 10300 E 10400 E 10500 E 10600 E 10700 E 10800 E 10900 E 11000 E 11100 E 11200 E 11300 E 11400 E 11500 E 11600 E 11700 E 11800 E 11900 E 12000 E 12100 E 12200 E 12300 E 12400 E 12500 E 12600 E 12700 E 12800 E

LEGEND

CONTOUR INTERVALS

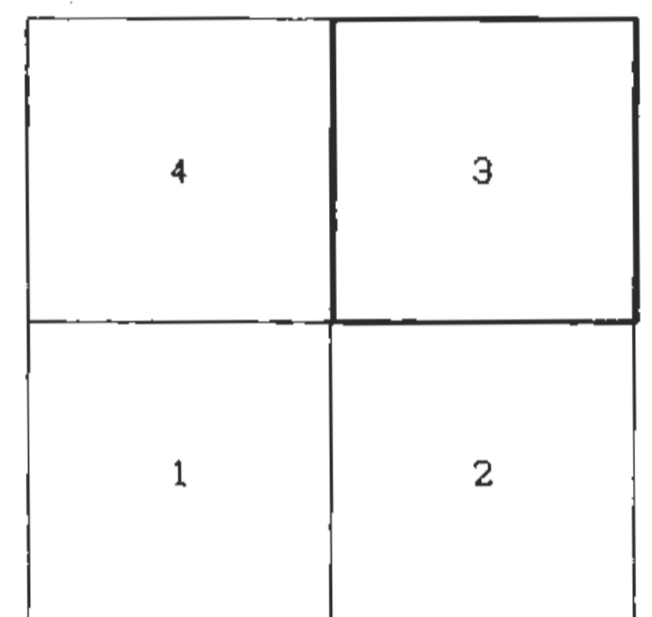
- 20 nT
- 100 nT
- 500 nT

BASE LEVEL OF 56000 nT REMOVED FROM ALL POSTINGS

INSTRUMENT

- EDA OMNI PLUS
- EDA OMNI IV BASESTATION

MAP SECTIONS



FILTERS

NON-LINEAR FILTER

- CUTOFF WAVELENGTH - 100 METRES
- TOLERANCE 5%

LINEAR FILTER (LOW PASS)

- CUTOFF WAVELENGTH - 50 METRES

FILTER COEFFICIENTS

- 0.1944922
- 0.8110156
- 0.1944922

Scale 1:5000



GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,240
Part 3 of 3

BATTLE MOUNTAIN (CANADA) INC.

PHOENIX PROJECT
Greenwood Mining Division

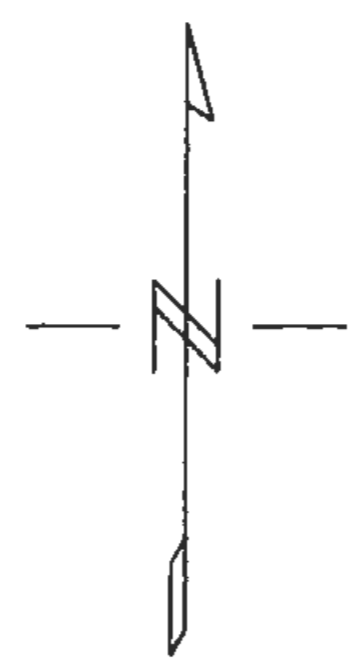
FILTERED
TOTAL FIELD MAGNETIC CONTOURS
3 of 4
NTS B2E/2

Map Scale 1 : 5000 Drawing : 52

LLOYD GEOPHYSICS INC.

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L11700 N
L11600 N
L11500 N
L11400 N
L11300 N
L11200 N
L11100 N
L11000 N
L10900 N
L10800 N
L10700 N
L10600 N
L10500 N
L10400 N
L10300 N
L10200 N
L10100 N
L10000 N
L9900 N
L9800 N
L9700 N
L9600 N



GEOLOGICAL BRANCH
ASSESSMENT REPORT
21,240
Part 3 of 3

6800 E 6900 E 7000 E 7100 E 7200 E 7300 E 7400 E 7500 E 7600 E 7700 E 7800 E 7900 E 8000 E 8100 E 8200 E 8300 E 8400 E 8500 E 8600 E 8700 E 8800 E 8900 E 9000 E 9100 E 9200 E 9300 E 9400 E 9500 E 9600 E 9700 E 9800 E

LEGEND

CONTOUR INTERVALS

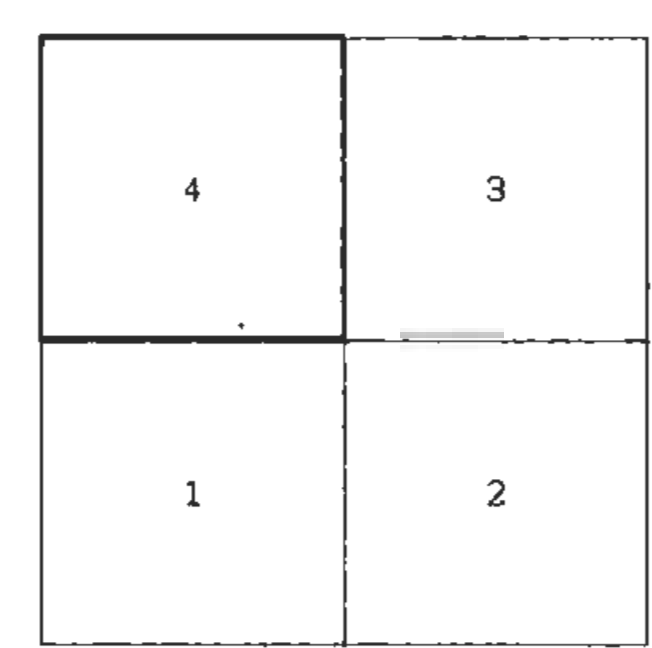
- 20 nT
- 100 nT
- 500 nT

BASE LEVEL OF 56000 nT REMOVED FROM ALL POSTINGS

INSTRUMENT

- EDA OMNI PLUS
- EDA OMNI IV BASESTATION

MAP SECTIONS



FILTERS

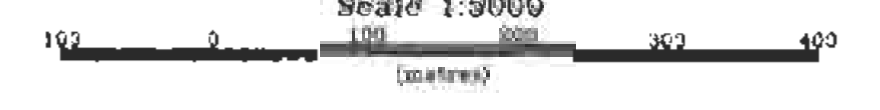
- NON-LINEAR FILTER**
- CUTOFF WAVELENGTH - 100 METRES
- TOLERANCE 5%

- LINEAR FILTER (LOW PASS)**
- CUTOFF WAVELENGTH - 50 METRES

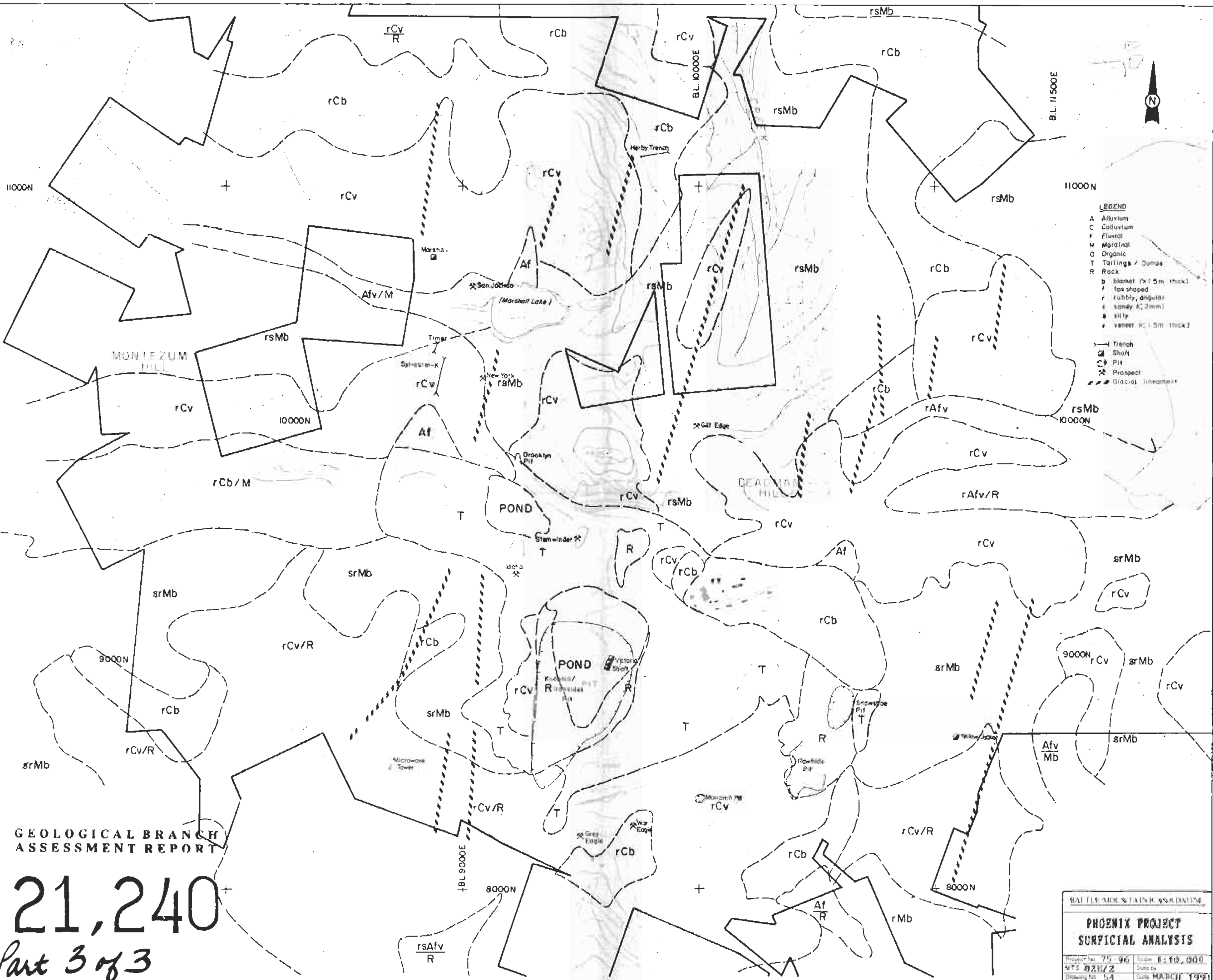
FILTER COEFFICIENTS

- 0.1944922
- 0.6110156
- 0.1944922

Scale 1:5000



BATTLE MOUNTAIN (CANADA) INC.
PHOENIX PROJECT Greenwood Mining Division
FILTERED TOTAL FIELD MAGNETIC CONTOURS 4 of 4 NTS 82E/2
Map Scale 1 : 5000 Drawing : 53
LLOYD GEOPHYSICS INC.



LEGEND

A Alluvium
 C Colluvium
 F Fluvial
 M Moraine
 O Organic
 T Tailings / Dumps
 R Rock

b blanket (2-5m thick)
 f fan shaped
 r rubby, angular
 s sandy (<2mm)
 silty
 v veneer (<0.5m thick)

— Trench
 □ Shaft
 ○ Pit
 ✖ Prospect
 --- Glacial lineation

GEOLOGICAL BRANCH
ASSESSMENT REPORT

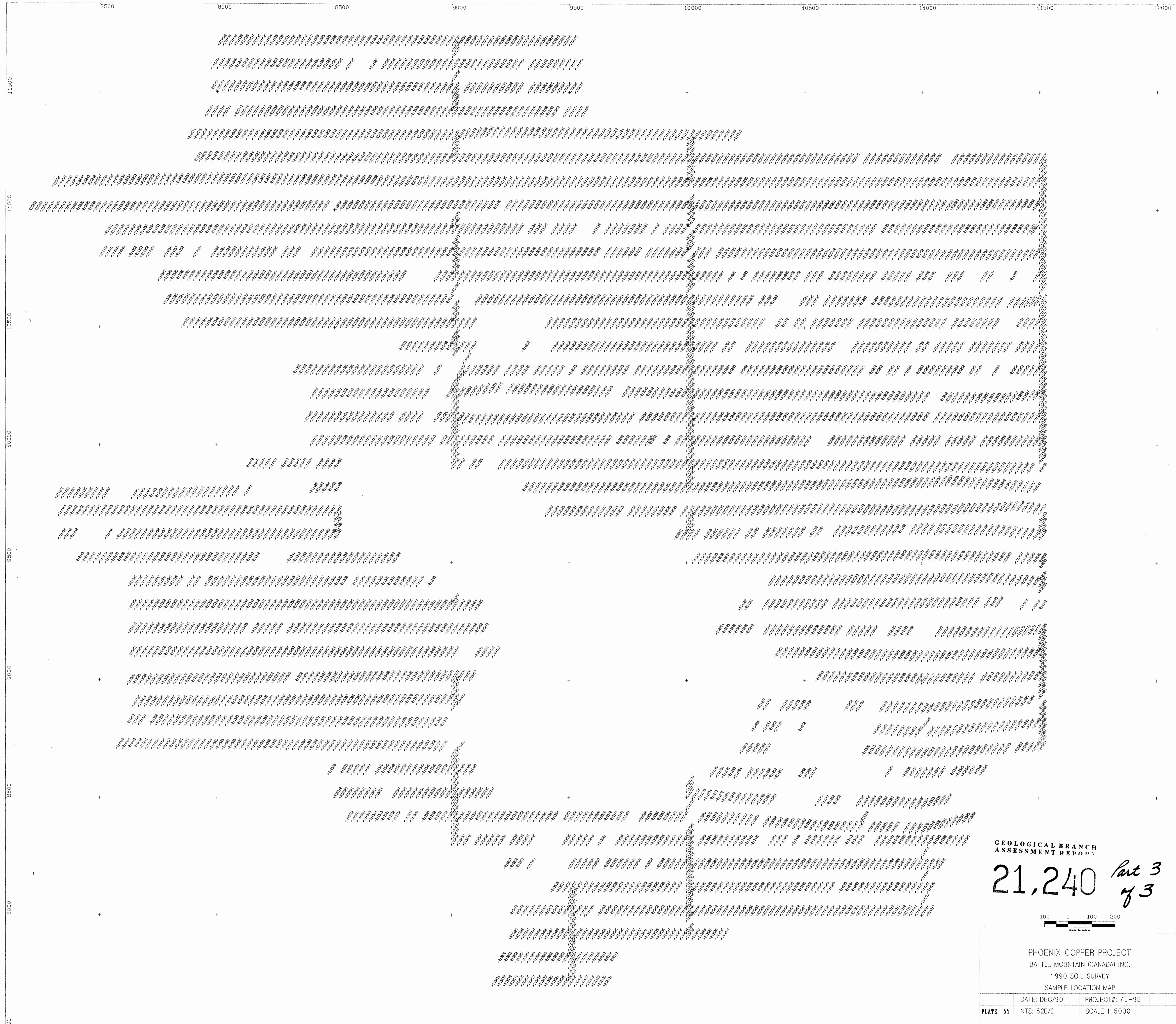
21,240

Part 3 of 3

BATTLE BELL & TRAIN CANADIAN

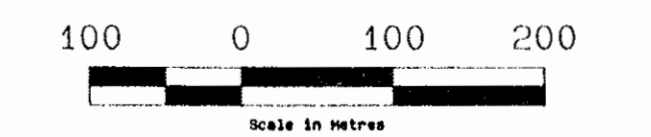
**PHOENIX PROJECT
SURFICIAL ANALYSIS**

Project No. 75-96 Scale 1:10,000
 NTS 82K/2 Date by
 Drawing No. 54 Date MARCH 1991

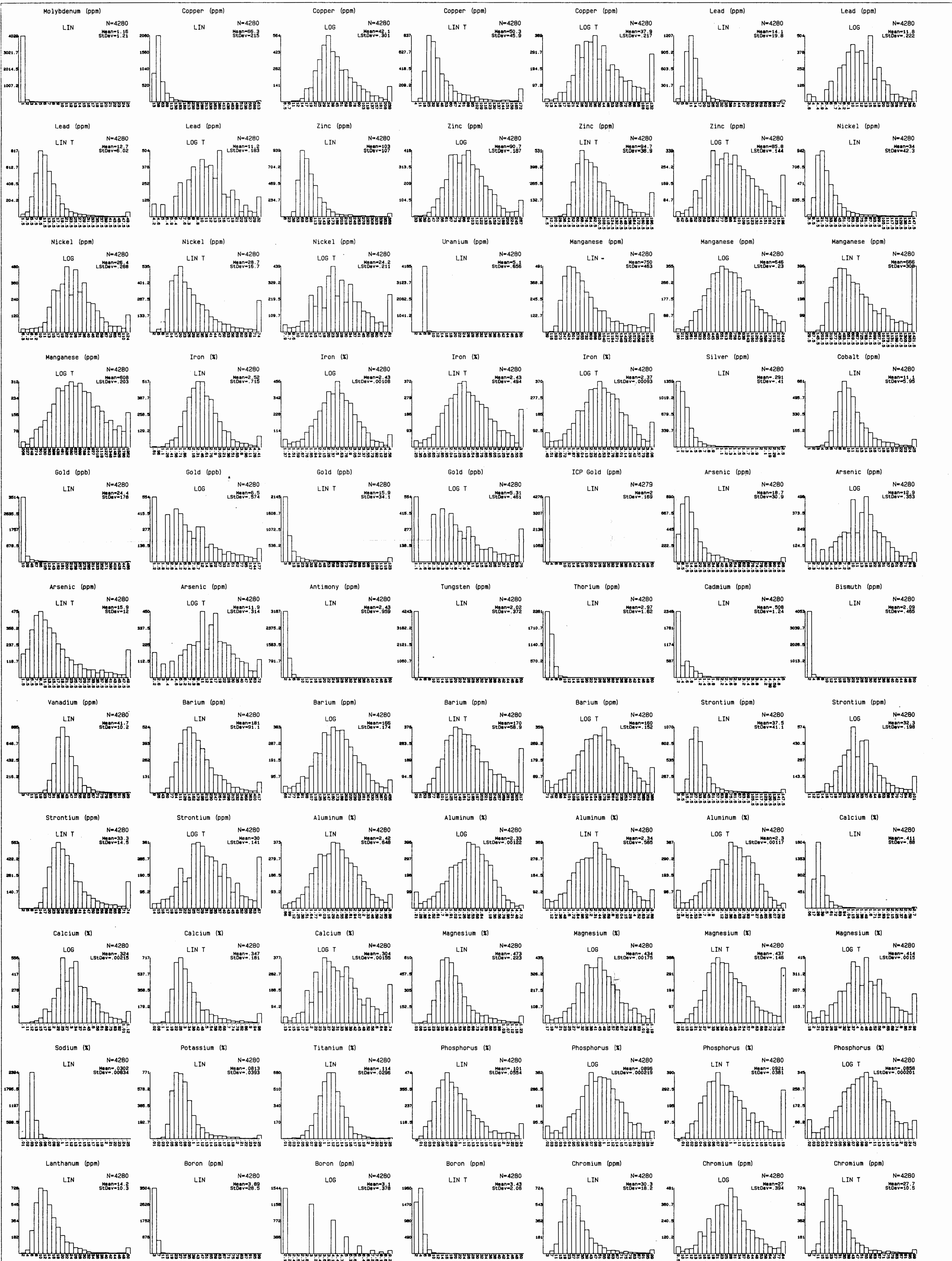


GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,240 *Part 3 of 3*



PHOENIX COPPER PROJECT			
BATTLE MOUNTAIN (CANADA) INC.			
1990 SOIL SURVEY			
SAMPLE LOCATION MAP			
PLATE 55	DATE: DEC/90	PROJECT#: 75-96	
	NTS: 82E/2	SCALE 1: 5000	



Part 3 of 3

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,240

DISTRIBUTION HISTOGRAMS

LIN = LINEAR
LOG = LOGARITHMIC
LINT = TRUNCATED LINEAR
LOGT = TRUNCATED LOGARITHMIC

SAMPLE SELECTION CRITERIA:

SAMPLE TYPE 50
PROPERTY CODE A
LSE CODE ALL
OB ORIGIN ALL
SAMPLE TEXTURE ALL
SOIL HORIZON ALL
BEDROCK GEOLOGY ALL

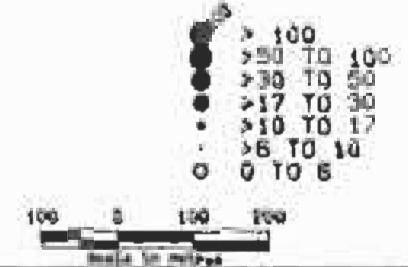
NORTH LIMIT NONE
SOUTH LIMIT NONE
EAST LIMIT NONE
WEST LIMIT NONE

PHOENIX COPPER PROJECT
BATTLE MOUNTAIN CANADA LTD.
1990 SOIL SURVEY
HISTOGRAMS

DATE: NOV/90	PROJECT#: 75-96
NTS: 82E/2	Plate 56



- LEGEND**
- Tm Basalt, andesite, tephrite porphyry
 - Tp Andesite, trachyte
 - Tak Kettle River arkose
 - Dol Granite, plattic diorite, gneiss
 - Sst Siltstone
 - Cq Conglomerate
 - Sc Chert, Jasper frag. shales
 - La Brooklyn limestone
 - Rsh Rowland shale, argillite
 - K Knob Hill Fm.
 - Am Amphibolite
 - S Sand
 - Cs Cal-silicate
 - HF Marls
- Trench
 - Shaft
 - Pit
 - ✱ Prospect



GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,240
Part 3 of 3

PHOENIX COPPER PROJECT		
BATTLE MOUNTAIN (CANADA) INC.		
1990 SOIL SURVEY		
(Gold ppm)		
DATE: DEC/90	PROJECT#: 75-96	PL:
HTS: 8262	SCALE: 1:10000	57A



- LEGEND**
- Tm Biotite megacrite, felsic porphyry
 - Tp Pallasite, trachyte
 - Tak Kettle River gabbro
 - Dol Diorite, biotite diorite, gneissoid
 - Slt Siltstone
 - Cg Conglomerate
 - Sc Chert Jasper frag. shales
 - Ls Brooklyn limestone
 - Rsh Rowles shale, argillite
 - K Kabb Hill Fm.
 - Am Amphibolite
 - S Skarn
 - Cs Cal-silicate
 - Hf Hornfels
- Trench
 [] Shaft
 [] Pit
 X Prospect



GEOLOGICAL BRANCH
ASSESSMENT REPORT

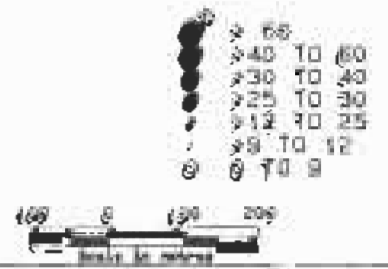
21,240

Part 3
of 3

PHOENIX COPPER PROJECT BATTLE MOUNTAIN (CANADIAN) INC. 1990 SOIL SURVEY Silver (ppm)		
DATE DEC/90	PROJECT# 75-96	PL.
NTS 426/2	SCALE 1:10000	57B



- LEGEND**
- Tm Biotite muscovite, feldspar porphyry
 - Tp Potashite, trachyte
 - Tak Kettle River andesite
 - Dol Diorite, biotite diorite, greenstone
 - Sls Siltstone
 - Cg Conglomerate
 - Sc Chert, Jasper, trap, shales
 - Ls Brooklyn limestone
 - Rsh Rhyolite, shale, argillite
 - K Knob Hill fm.
 - Am Amphibolite
 - S Skarn
 - Cs Calc-silicate
 - Hf Hornfels
- Trace
 [Symbol] Shaft
 [Symbol] Prospect



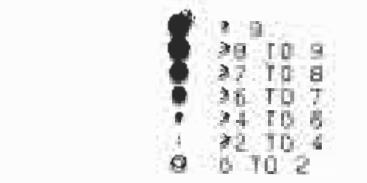
PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN (DAMON) INS.
 1990 SOIL SURVEY
 Arsenic (ppm)

DATE DEC/90	PROJECT# 15-96	PI-
HT# 826/2	SCALE 1:10000	576

GEOLOGICAL BRANCH
 ASSESSMENT REPORT
 21,240
 Part 3 of 3



- LEGEND**
- Tm Biotite megacrite, felsic porphyry
 - Tp Potosiite, trachyte
 - Tak Kettle River andesite
 - Del Diabase, diorite, granite, gneiss
 - Sst Siltstone
 - Cq Conglomerate
 - Sc Chert Jasper frag. shales
 - La Brooklyn limestone
 - Rsh Rowide shale, argillite
 - K Amph. Mt. Fm.
 - Am Amphibolite
 - S S&M
 - S Ed. siltstone
 - M Mottled
- Trench
 Shaft
 Pit
 Prospect



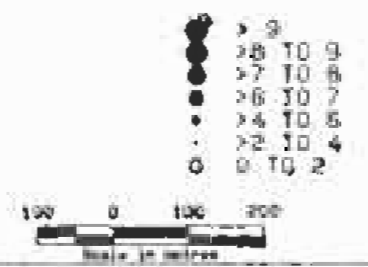
PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN (CANADA) INC.
 1990 SGL SURVEY
 Antimony (ppm)

DATE DEC/90	PROJECT# 75-98	BL
HTS 826/2	SCALE 1:10000	67D

GEOLOGICAL BRANCH
 ASSESSMENT REPORT
 21,240
 Pat 373



- LEGEND**
- Tm Biotite magnetite, telluric porphyry
 - Tp Polychrome, trachyte
 - Tak Kettle River gneiss
 - Dol Diorite, biotite diorite, greenstone
 - Sst Siltstone
 - Cq Conglomerate
 - Sc Chert-gasper frag. sh. & argill. sh.
 - Ls Brooklyn limestone
 - Rst Shale, sh. & argillite
 - K Knob Hill fm.
 - Am Amphibolite
 - S Skarn
 - Cs Cal-silicate
 - Ht Hornfels
- - - Trench
 - Shaft
 - Pit
 - * Prospect



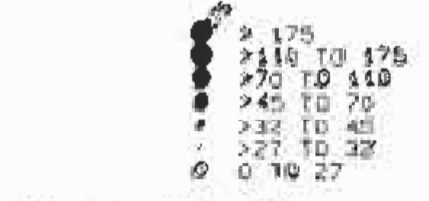
PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN (CANADA) INC.
 1990 SOIL SURVEY
 (Bunch gpp)

DATE: DEC/90	PROJECT#: 75-91	PL.:
NTS: 62E/2	SCALE: 1:10000	57E

21,240
 GEOLOGICAL BRANCH
 ASSESSMENT REPORT
 Part 3 of 3



- LEGEND**
- Tm Biotite megacrysts, feldspar porphyry
 - Tp Puzosite, trachyte
 - Tak Kettle River graben
 - Dol Diorite, diorite, quartzite
 - Slt Siltstone
 - Cg Conglomerate
 - Sc Chert-jasper frag. Mariposa
 - Ls Brooklyn limestone
 - Rsh Roshida, shale, argillite
 - Am Amphibolite
 - S Slate
 - Cs Calc-silicate
 - Hf Mylonite
- Trench
 [Symbol] Shaft
 [Symbol] Pit
 [Symbol] Prospect



PHOENIX COPPER PROJECT			
BATTLE MOUNTAIN CANADA INC.			
1990 SOIL SURVEY			
Copper (ppm)			
DATE DEC/90	PROJECT 13-88	PL.	
NTS: 836/2	SCALE 1:10000	57F	

Part 3 of 3

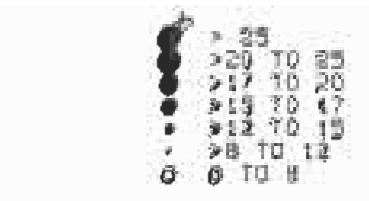
21,240

ASSESSMENT REPORT

GEOLOGICAL BRANCH



- LEGEND**
- Tm Biotite Amphibole, feldspar porphyry
 - Tp Pulaskite, trachyte
 - Tak Kettle River granite
 - Dol Diorite, biotite diorite, greenstone
 - Sls Siltstone
 - Cs Conglomerate
 - Sc Chert-jasper frog-shorstone
 - Ls Brooklyn limestone
 - Rsh Rawhide shale, argillite
 - K Knob Hill Fm
 - Am Amphibolite
 - S Skarn
 - Cx Cal-silicate
 - H Harrelite
- Trench
 Shall
 Pit
 Prospect



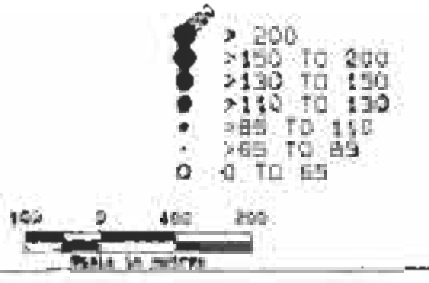
PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN (CANADIAN) INC.
 1990 SOIL SURVEY

DATE DEC/90	PROJECT# 75-96	PL.
NTS 825/2	SCALE ± 1:8000	57G

21,240
 ASSESSMENT REPORT
 GEOLOGICAL BRANCH
 Part 3 of 3



- LEGEND**
- Tm Basaltic andesite, felsitic porphyry
 - Tp Porphyry, trachyte
 - Tak Kaffir River arkose
 - Dol Dolomite, bottle dolomite, greenstone
 - Sst Siltstone
 - Cg Conglomerate
 - Sc Chert, jasper frag. shales
 - Ls Brooklyn limestone
 - Rsh Rowley shale, argillite
 - K Arab Hill fm
 - Am Amphibolite
 - S Siltstone
 - Cs Col-siltstone
 - Hl Hornfels
- - - Trench
 - Shaft
 - Pit
 - * Prospect



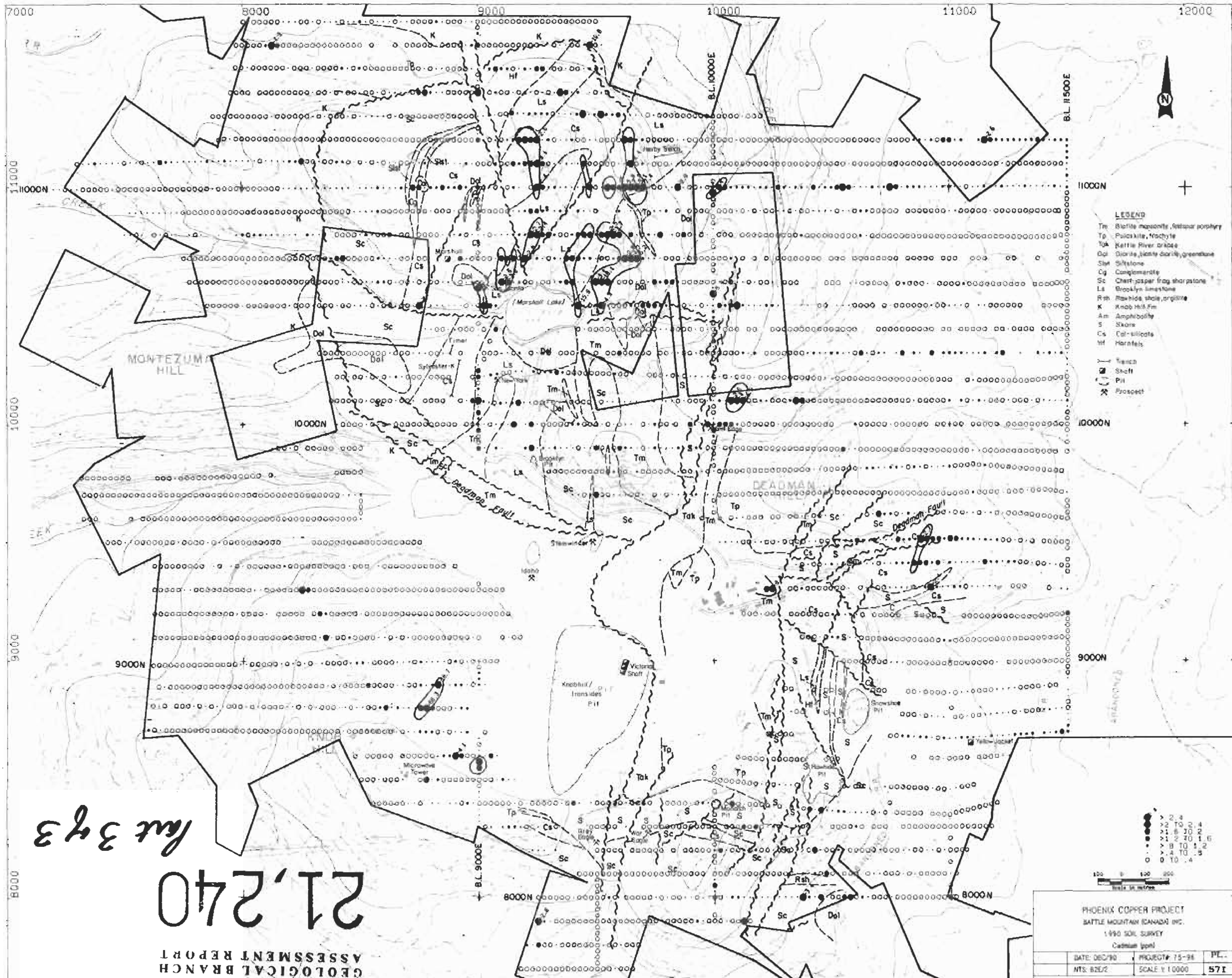
PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN CANADA INC
 1990 SOIL SURVEY
 Inc (part)

DATE DEC/90	PROJECT# 75-86	PL#
NTS: 876/E	SCALE: 1:10000	57H

Part 3 of 3

21,240

**ASSESSMENT REPORT
 GEOLOGICAL BRANCH**



- LEGEND**
- Tm Basaltic magmatite, felsic porphyry
 - Tp Andesite, trachyte
 - Tak Kettle River andesite
 - Dol Granite, diorite, gabbro
 - Sst Siltstone
 - Cg Conglomerate
 - Sc Chert-gasper frag. shorstone
 - Ls Brooklyn limestone
 - Rsh Basal shale, argillite
 - K Knob Hill fm
 - Am Amphibolite
 - S Siltstone
 - Cs Calc-silicates
 - Hf Hornfels
- Fault
 - Shaft
 - Pit
 - ✱ Prospect



PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN (CANADA) INC.
 1990 SOIL SURVEY
 Cadman (ppt)

DATE: DEC/90	PROJECT#: 75-96	PL-
NTS: B2E/2	SCALE: 1:10000	57I

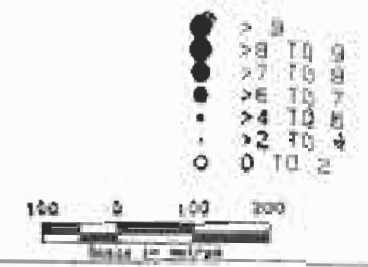
lot 343

21,240

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**



- LEGEND**
- Tm Blatte, soapstone, talc, porphyry
 - Tp Puleshite, trachyte
 - Tak Kettle River gneiss
 - Dal Diorite, biotite diorite, gneiss
 - Sst Siltstone
 - Cg Conglomerate
 - Sc Chert, Jasper frag. siltstone
 - Ls Brooklyn limestone
 - Rsh Riverside shale, argillite
 - K Knobs Hill fm
 - Am Amphibolite
 - S Skarn
 - Cs Cal-silicate
 - Hf Hornfels
- Trench
 - Shaft
 - Pit
 - Prospect



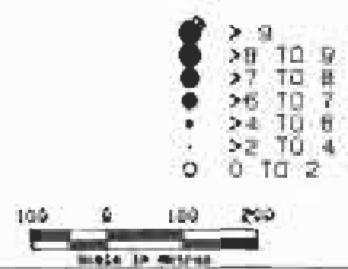
PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN (CANADIAN) INC.
 1990 SOIL SURVEY
 Metadenum (cont.)

DATE: DEC/90	PROJECT: 73-96	PL-
NTS: 825/2	SCALE: 1:10000	57J

GEOLOGICAL BRANCH
 ASSESSMENT REPORT
 21,240
 Part 3 of 3



- LEGEND**
- Tm Diabase magmatite, hydrothermal porphyry
 - Tp Puleokite, trachyte
 - Tak Kettle River arkose
 - Dal Diorite, biotite diorite, greenstone
 - Sst Siltstone
 - Cg Conglomerate
 - Sc Chert, Jasper frag. sherpstone
 - Ls Brooklyn limestone
 - Rsh Riverside shale, argillite
 - K Knob Hill Fm.
 - Am Amphibolite
 - S Skarn
 - Cs Calc-silicate
 - Hf Hornfels
- Trench
 - Shaft
 - Pit
 - ✱ Prospect



PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN (CANADA) INC.
 1998 SOIL SURVEY
 Tungsten (cont)

DATE DEC/90	PROJECT# 75-94	PL-
NTS: 825/7	SCALE 1:10000	57K

GEOLOGICAL BRANCH
 ASSESSMENT REPORT
 21,240
 Part 3 of 3



- LEGEND**
- Tm Biotite monzonite, felsic rhyolite
 - Tp Porphyrite, trachyte
 - Tak Kettle River gneiss
 - Dol Diorite, biotite diorite, greenstone
 - Sst Siltstone
 - Cg Conglomerate
 - Sc Chert-jasper frag. shalystone
 - Ls Brooklyn limestone
 - Rsh Rowland shale, argillite
 - K Knap Hill Fm.
 - Am Amphibolite
 - S Skarn
 - Cs Calcisilicate
 - Hf Hornfels
- - - - - Trench
 - Shaft
 - Pit
 - ★ Prospect



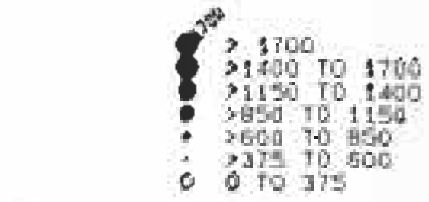
PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN CANADA INC.
 1990 SOIL SURVEY

DATE DEC 90	PROJECT 75-94	PL 57L
NTS: 825/2	SCALE 1:10000	

GEOLOGICAL BRANCH
 ASSESSMENT REPORT
 21,240
 Part 3 of 3



- LEGEND**
- Tm Slate, muscovite, felsic porphyry
 - Tp Porphyr, trachyte
 - Tak Battle River granite
 - Dol Dolomite, potite dolomite, greenstone
 - Silt Siltstone
 - Cg Conglomerate
 - Sc Chert, Jasper frag. shales
 - Ls Brooklyn limestone
 - Rsh Rockside shale, argillite
 - K Knop Hill Fm.
 - Am Amphibolite
 - S Sandstone
 - Cs Cal-silicate
 - HF Hardfels
- Trench
 - Shaft
 - Pit
 - Prospect



PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN (CANADA) INC.
 1990 SOIL SURVEY
 Mangrove point

DATE: DEC/90	PROJECT: 75-98	PL: 1
NTS: 826/2	SCALE: 1:10000	57M

21,240
 Pat 343
 GEOLOGICAL BRANCH
 ASSESSMENT REPORT



- LEGEND**
- Tm Biotite monzonite, felsic porphyry
 - Tp Pulexite, trachyte
 - Ka Kettle River arkose
 - Dol Diorite, biotite-diorite, greenstone
 - Sst Siltstone
 - Cg Conglomerate
 - Sc Chert-jasper frag. siltstone
 - Ls Brooklyn limestone
 - Rsh Reddish shale, argillite
 - K Knob Hill fm.
 - Am Amphibolite
 - S Siltstone
 - Es Col-siltstone
 - Hf Hornfels
- Trench
 Shaft
 Pit
 Prospect



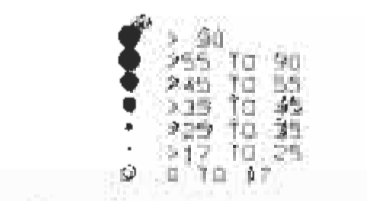
PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN (CANADA) INC.
 1990 SOL. SURVEY
 Cabinet base

DATE OF SURV.	PROJECT NO.	PK.
MCS 8911	25-94	57N

GEOLOGICAL BRANCH
 ASSESSMENT REPORT
 21,240
 Part 3 of 3



- LEGEND**
- Tm Diatite-muscovite, felsic porphyry
 - Ts Andesite, trachyte
 - Tak Kettle River andesite
 - Dol Granite, biotite diorite, greenstone
 - Sst Siltstone
 - Eg Conglomerate
 - Sc Chert, Jasper, frag. shales
 - Ls Brooklyn limestone
 - Rsh Rawhide shale, argillite
 - Kn Knob Hill fm
 - Am Amphibolite
 - S Sandstone
 - Cs Cal-silicate
 - Hf Hornfels
- Trench
 □ Shaft
 — Pit
 X Crossed



PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN (EMERALD) INC.
 1990 SOIL SURVEY
 Nickel Survey

DATE DEC/90	PROJECT# 75-96	PL.
NTS 825/7	SCALE 1:10000	570

Lat 343

21,240

GEOLOGICAL BRANCH ASSESSMENT REPORT



- LEGEND**
- Tm Biotite monzonite, feldspar porphyry
 - Tp Porphyry, trachyte
 - Taq Kettle River arkose
 - Dol Diabase, biotite diorite, gneiss
 - Sst Siltstone
 - Cg Conglomerate
 - Sc Chert-jasper frag. sh. & pet. sh.
 - Ls Brooklyn limestone
 - Rsh Reddish shale, argillite
 - K Knox Hill fm.
 - Am Amphibolite
 - S Skarn
 - Cs Carbonate horstels
 - H
- Trench
 Shall
 Pit
 Prospect



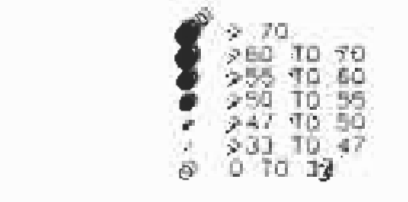
PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN (CANADA) MS
 # 990 SOL SURVEY
 Chromium (part)

DATE: DEC/90	PROJECT: 15-96	PT:
RTS: 826/2	SCALE: 1:10000	57M

GEOLOGICAL BRANCH
 ASSESSMENT REPORT
 21,240
 Part 3 of 3



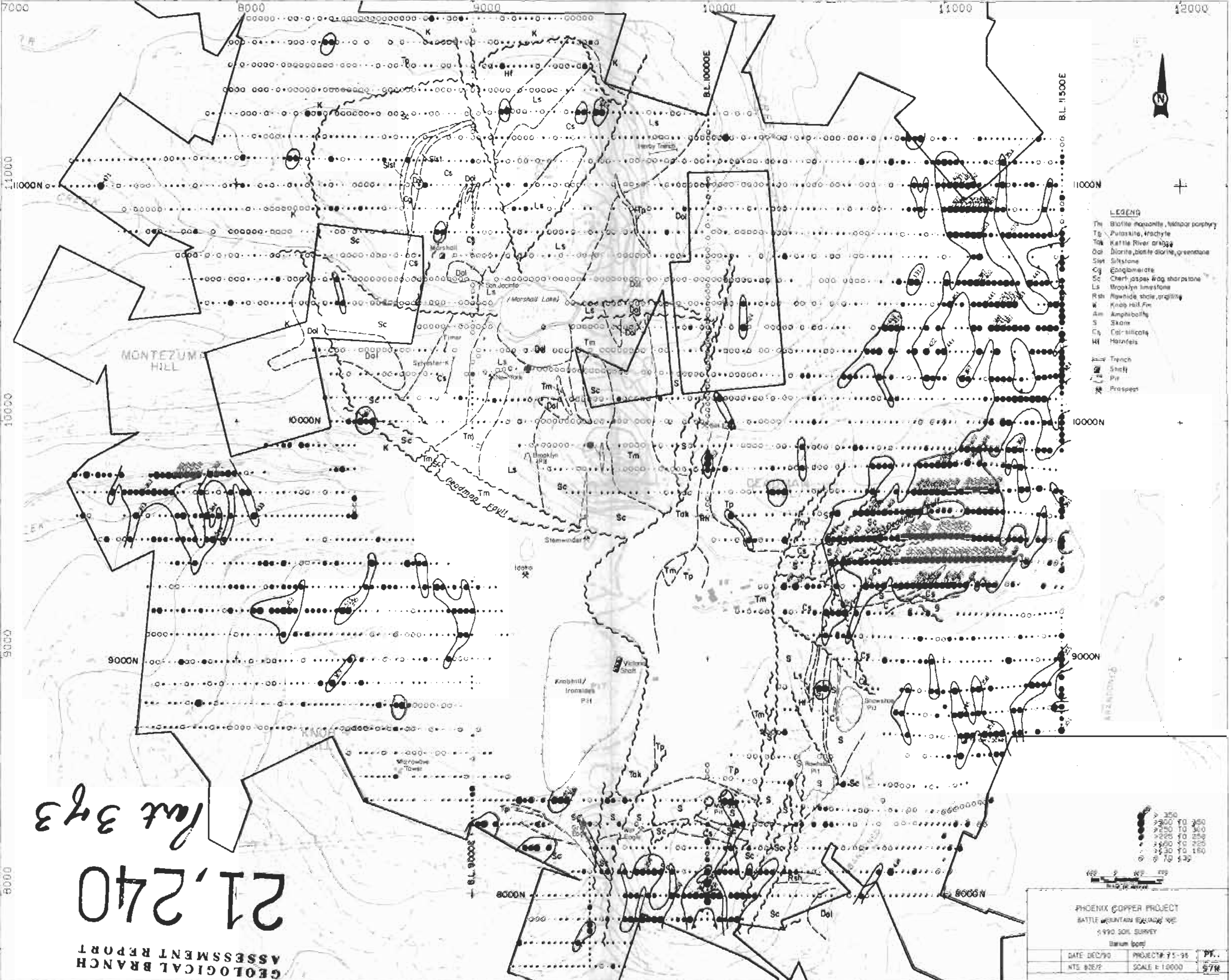
- LEGEND**
- Tm Biotite Anorthite feldspar porphyry
 - Tp Plagioclase, trachyte
 - Tak Battle River arkose
 - Dol Diorite, biotite diorite, greenstone
 - Sst Siltstone
 - Cg Conglomerate
 - Sc Chert-jasper frag. shales
 - Ls Brooklyn limestone
 - Rsh Rowland shale, argillite
 - K Knob Hill fm.
 - Am Amphibolite
 - S Shale
 - Cx Cal-silicate
 - H Hornfels
- French
 Shale
 Prospect



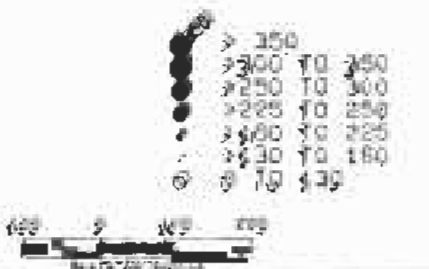
PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN CANADA INC.
 1998 SOL. SURVEY
 Vanadium (ppm)

DATE DEC/90	PROJECT 25-78	TP-
975 827/2	SCALE 1:10000	570

21,240
 GeOLOGICAL BRANCH
 ASSESSMENT REPORT
 Part 3 of 3



- LEGEND**
- Tm Blotite monzonite, nickel porphyry
 - Tp Potosiite, trachyte
 - Tak Kettle River dike
 - Ool Diorite, basic diorite, gneiss
 - Sist Siltstone
 - Cg Conglomerate
 - Sc Chert, Jasper, frog stone
 - Ls Brooklyn limestone
 - Rsh Rawhide shale, argill.
 - W Knop Hill Fm
 - Am Amphibolite
 - S Sand
 - Cs Calc-silicate
 - Hl Harneyfels
- Trench
 --- Shalt
 --- Pit
 * Prospect



PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN (EAST) SHEET
 1990 SOIL SURVEY
 Datum: local

DATE DEC/90	PROJECT# 75-98	PF.
NTS 82E/2	SCALE 1:10000	57N

GEOLOGICAL BRANCH
 ASSESSMENT REPORT
 21,240
 Part 3 of 3



- LEGEND**
- Tm Blotite monzonite, feldspar porphyry
 - Tp Potosiite, trachyte
 - Tak Kettle River arkose
 - Dol Dolomite, barite dolomite, greenstone
 - Sst Siltstone
 - Cg Conglomerate
 - Sc Shert Jasper frog shorstone
 - Ls Brooklyn limestone
 - Rsh Rowland stone, argillite
 - K Knob Hill fm.
 - Am Amphibolite
 - S Skarn
 - Cg Cal-silicate
 - HI Hornfels
- - - - - French
 [Symbol] Shaly
 [Symbol] PJI
 [Symbol] Prospect



PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN (CANADIAN) INC.
 1990 SOIL SURVEY
 Strontium (ppm)

DATE DEC/90	PROJECT# 73-98	PL.
NTS 82E/2	SCALE 1:10,000	57S

GEOLOGICAL BRANCH
 ASSESSMENT REPORT
 21,240
 Pat 3 of 3



- LEGEND**
- Tm Blotite monzonite, textural porphyry
 - Tp Andesite, trachyte
 - Tak Yavapai River andesite
 - Dol Diorite, biotite diorite, greenstone
 - Silst Siltstone
 - Cg Conglomerate
 - Sc Chert-jasper frag. siltstone
 - Ls Brooklyn limestone
 - Rsh Arkhida chert, argillite
 - K Knob Hill Fm
 - Am Amphibolite
 - S Skarn
 - Cs Calc-silicate
 - HI Hornfels
- Trench
 - ▣ Shaft
 - Pit
 - ★ Prospect

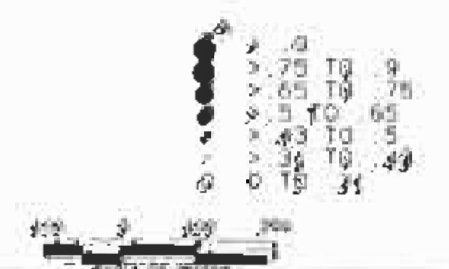
GEOLOGICAL BRANCH
 ASSESSMENT REPORT
 21,240
 Part 3 of 3

PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN (CANADA) INC.
 1990 SOIL SURVEY
 Calcium 00

DATE: DEC/90	PROJECT#: 75-95	PL:
HTL: 025/2	SCALE: 1:4,000	57V



- LEGEND**
- Tm Biotite monzonite, typical porphyry
 - Tp Plagioclase, trachyte
 - Tak Kettle River andesite
 - Dol Diorite, biotite diorite, gneiss
 - Sls Silstone
 - Cg Conglomerate
 - Sc Chert Jasper frag. sandstone
 - Ls Brooklyn limestone
 - Rsh Rhyolite, ash, argillite
 - Km Knobb Hill fm
 - Am Amphibolite
 - S Siltstone
 - Ca Cal-siltstone
 - NI Manganese
- Trench
 --- Show
 --- Pit
 * Prospect



PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN (CANADA) INC.
 1990 SOIL SURVEY
 Magnesium (Mg)

DATE DEC/90	PROJECT 75-94	PLC
NTS 1:2500	SCALE 1:1000	5 TII

GEOLOGICAL BRANCH
 ASSESSMENT REPORT
 21,240
 Part 3 of 3



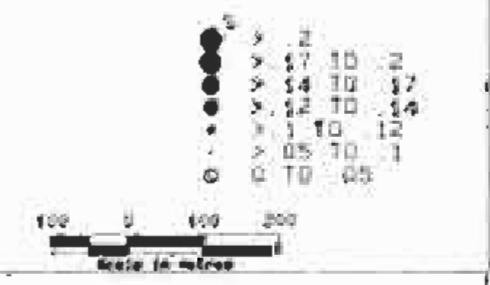
Pat 343

21,240

GEOLOGICAL BRANCH ASSESSMENT REPORT



- LEGEND**
- Tm Basaltic andesite, Nickerl porphyry
 - Tp Pallasite, trachyte
 - K Kettle River Grabb
 - Dol Dolomite, black diorite, greenstone
 - St Silstone
 - Cg Conglomerate
 - Se Chert Jasper flag shales
 - Ls Brooklyn limestone
 - Rsh Rowles shale, argillite
 - K Knob Hill Fm
 - Am Amphibolite
 - S Skarn
 - Cs Col-silicates
 - H Hornfels
- Trench
 - Shaft
 - Pit
 - * Prospect



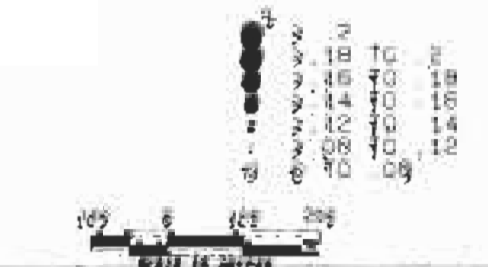
PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN (ARIZONA) INC.
 1990 SOIL SURVEY
 Potassium %

DATE DEC/90	PROJECT# 75-96	PL.
NTS 826/2	SCALE 1:10000	57W

GEOLOGICAL BRANCH
 ASSESSMENT REPORT
 21,240
 Part 3 of 3

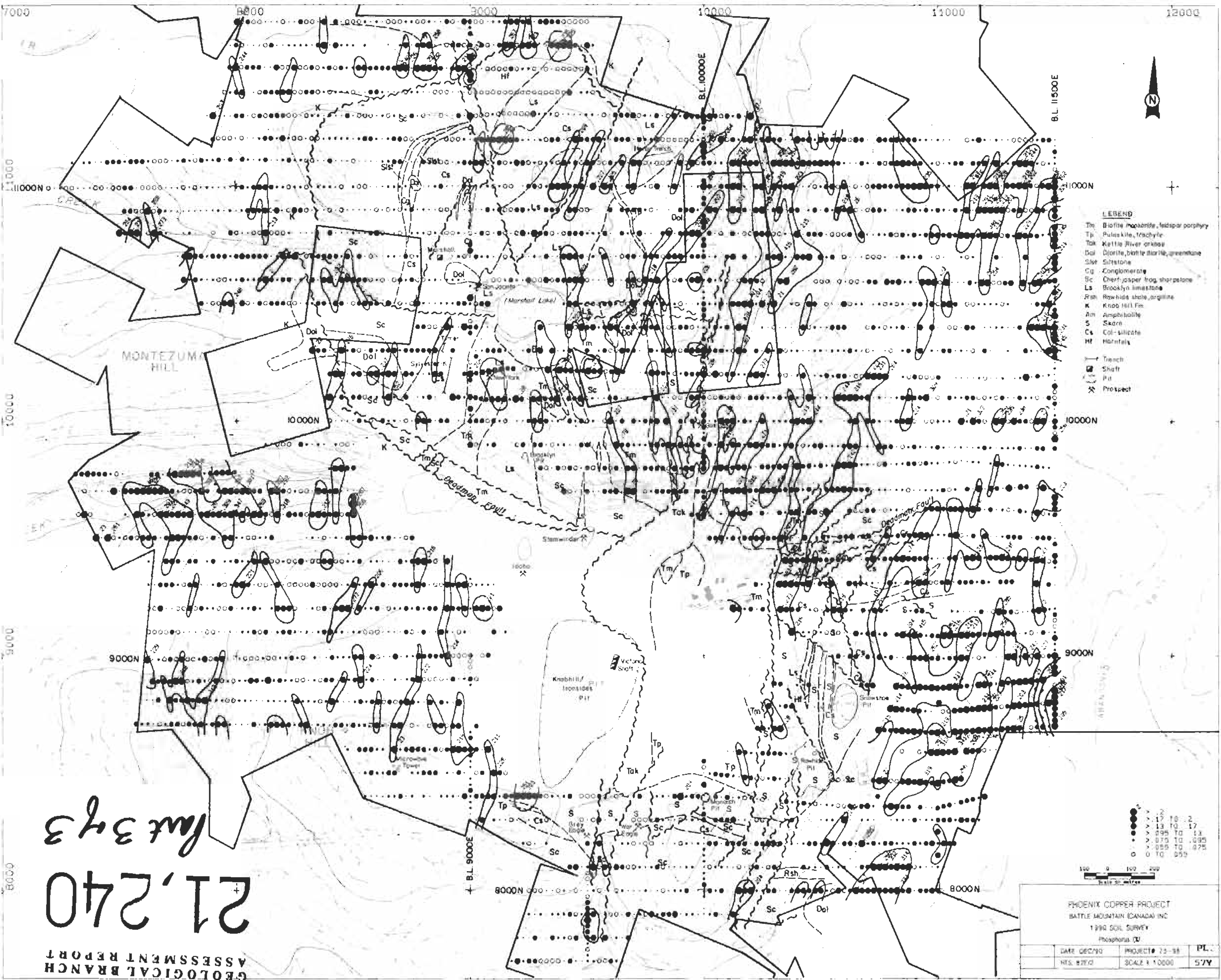


- LEGEND**
- Tp Biotite melanite, talc-schistosity
 - To Pseudotachylite, trachyle
 - Tak Kettle River gabbro
 - Dol Quartz, biotite schist, greenstone
 - Sst Siltstone
 - Cg Conglomerate
 - Sc Chert-jasper frag. sh. and st. g.
 - Ls Brooklyn limestone
 - Rsh Roshide shale, argillite
 - K Knob Hill Fm.
 - Am Amphibolite
 - S Skaen
 - Cs Calc-silicate
 - Hf Hornfels
- Trench
 - Shaft
 - Pit
 - Prospect

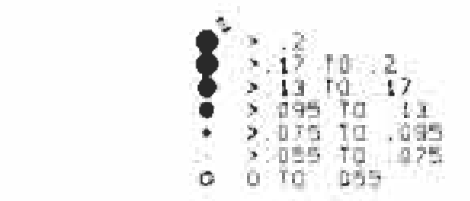


PHOENIX COPPER PROJECT		
BATTLE MOUNTAIN LEAD AND ZINC		
1990 SOIL SURVEY		
Traction 00		
DATE DEC/90	PROJECT# 15-34	PT.
NTS 5267	SCALE 1:10000	57A

GEOLOGICAL BRANCH
 ASSESSMENT REPORT
 21,240
 Part 3 of 3



- LEGEND**
- Tm Biotite monazite, feldspar porphyry
 - Tp Pallasite, trachyte
 - Tak Kettle River granite
 - Dol Chlorite, biotite, hornblende, greenstone
 - Sls Siltstone
 - Cg Conglomerate
 - Sc Chert, Jasper, frog, shorstone
 - Ls Brooklyn limestone
 - Rsh Rowland shale, argillite
 - K Knob Hill fm
 - Am Amphibolite
 - S Skarn
 - Cs Col-silicate
 - Hf Hornfels
- Trench
 - Shaft
 - Pit
 - ✕ Prospect



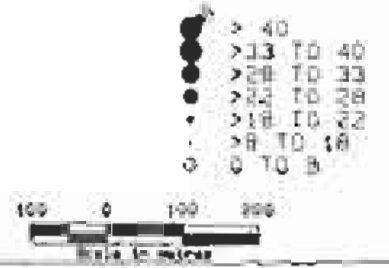
PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN CANADA INC
 1990 SOIL SURVEY
 Phosphorus (P)

DATE DEC/90	PROJECT# 25-98	PL.
NTS. #270	SCALE 1:10000	57A

GEOLOGICAL BRANCH
 ASSESSMENT REPORT
 21,240
 Part 3 of 3



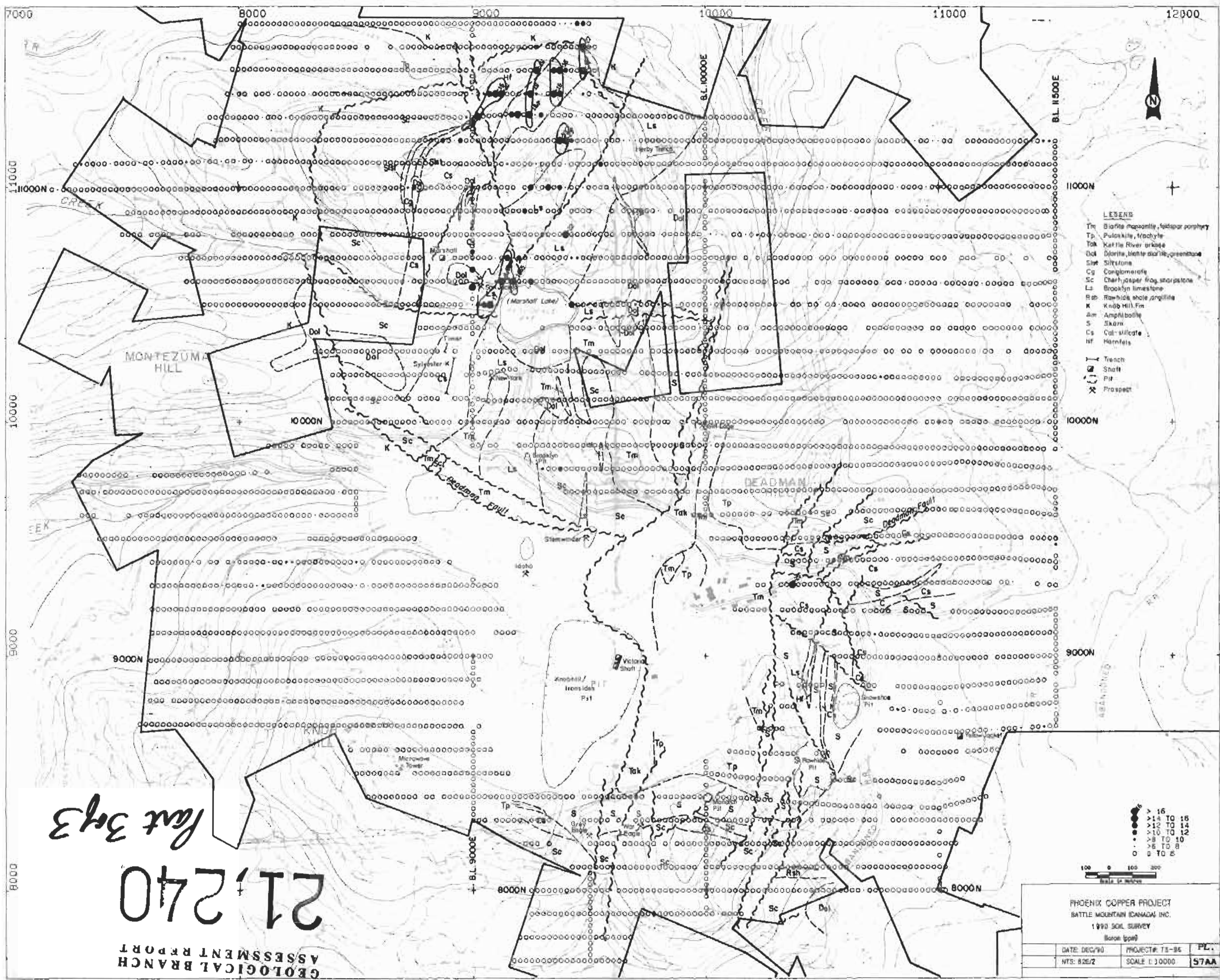
- LEGEND**
- Tm Biotite monzonite, feldspar porphyry
 - Tp Pulaskite, trachyte
 - Tak Kettle River granite
 - Dol Diorite, biotite diorite, gneiss
 - Sst Siltstone
 - Cg Conglomerate
 - Sc Chert-jasper frag. shorstone
 - Ls Brooklyn limestone
 - Rsh Rawhide shale, argillite
 - K Knob Hill fm
 - Am Amphibolite
 - S Skan
 - Cs Cal-silicate
 - Hf Hornfels
- Trench
 - Shaft
 - Pit
 - Prospect



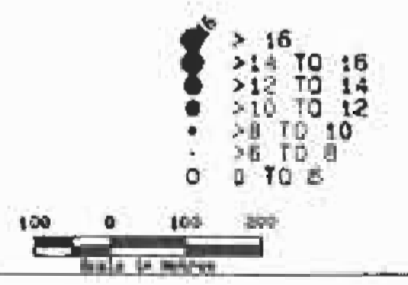
PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN (CANADIAN) INC.
 1990 SOIL SURVEY
 Laramie 1990

DATE: DEC/90	PROJECT#: 73-96	PL.
NTS: 8267	SCALE: 1:10000	572

GEOLOGICAL BRANCH
 ASSESSMENT REPORT
 21,240
 Part 3 of 3



- LEGEND**
- Tm Biotite magnetite, sphalerite porphyry
 - Tp Puleokite, topchyle
 - Tak Kettle River arkose
 - Dol Dolomite, biotite marble, greenstone
 - Sst Siltstone
 - Cg Conglomerate
 - Sc Chlorhydrite (dog, star) stone
 - Ls Brooklyn limestone
 - Rab Rawhide shale argillite
 - K Knob Hill, Fin
 - Am Amphibolite
 - S Skarn
 - Cs Calc-silicate
 - Hf Hornfels
- Trench
 - Shaft
 - Pit
 - Prospect



PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN (CANADIAN) INC.
 1990 SOIL SURVEY
 Baron (ppd)

DATE: DEC/90	PROJECT: TS-84	PL:
NTS: 826/2	SCALE: 1:30000	57AA

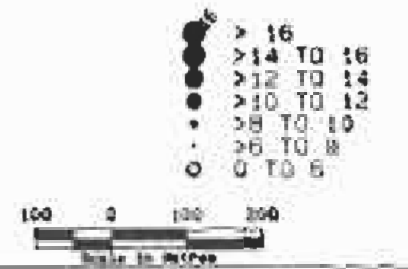
Pat 343

21,240

**ASSESSMENT REPORT
 GEOLOGICAL BRANCH**



- LEGEND**
- Tm Biotite megacryst, feldspar porphyry
 - Tp Pulaskite, trachyte
 - Tak Kettle River granite
 - Dal Diorite, biotite diorite, gneiss
 - Sil Siltstone
 - Cg Conglomerate
 - Sc Charleyasper frag. siltstone
 - Ls Brooklyn limestone
 - Rsh Roughly shale, argillite
 - K Knob Hill Fm.
 - Am Amphibolite
 - S Skarn
 - Cs Cal-silicate
 - Hf Hornfels
- Trench
 () Shaft
 () Pit
 * Prospect



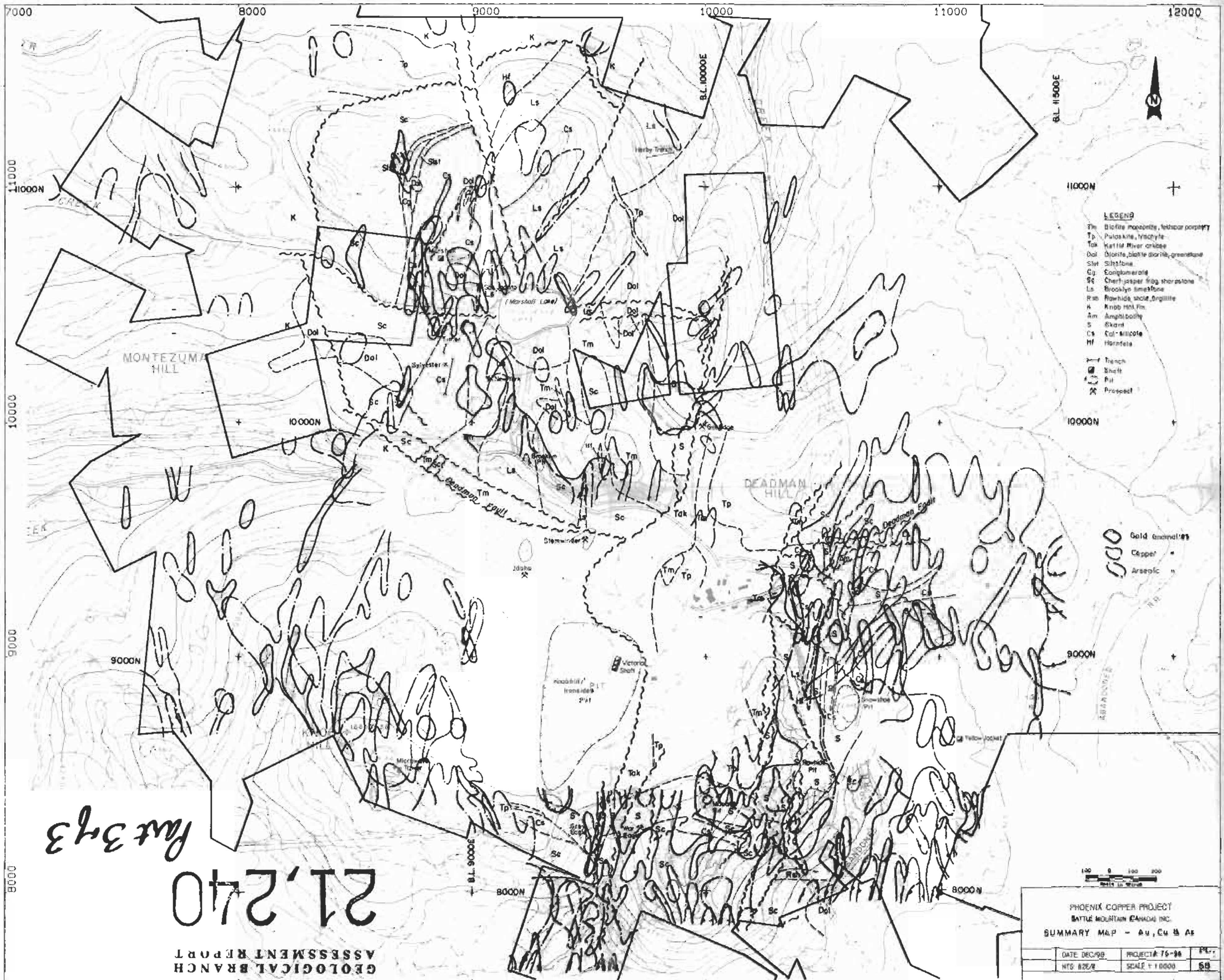
PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN (CANADIAN) INC.
 1990 SOIL SURVEY
 (Urban) (ppm)

DATE: DEC/90	PROJECT# TS-36	PL.
NTS: 82E/2	SCALE: 1:5000	57BB

Pat 343

21,240

GEOLOGICAL BRANCH ASSESSMENT REPORT



- LEGEND**
- Tm Diabase monzonite, felsic porphyry
 - Tp Picrokite, trachyte
 - Tak Kariakivi River arkose
 - Dol Diorite, biotite diorite, greenstone
 - Slr Siltstone
 - Cg Conglomerate
 - Sc Chert-jasper frog stone
 - Ls Brooklyn limestone
 - Rm Rowhide shale, argillite
 - K Knob Hill fm.
 - Am Amphibolite
 - S Sand
 - Cs Calc-silicate
 - Hf Hornfels
- Trench
 - Shaft
 - Pit
 - ✱ Prospect

- Gold (gnomons)
- Copper
- Arsenic

100 0 100 200
Meters

PHOENIX COPPER PROJECT
BATTLE MOUNTAIN ENERGY INC.
SUMMARY MAP - Au, Cu & As

DATE DEC-98	PROJECT 75-98	PL.
HTS 8287	SCALE 1:10000	59

Pat 343

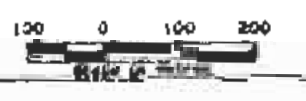
21,240

GEOLOGICAL BRANCH
ASSESSMENT REPORT



- LEGEND**
- Tm Biotite magnetite, hematite porphyry
 - Tp Pulsatite, trachyte
 - Tak Kettle River dike
 - Dol Diorite, biotite diorite, quartzite
 - Sst Siltstone
 - Cy Conglomerate
 - Sc Chert, Jasper, frog, shorstone
 - Ls Blacklyn limestone
 - Rsh Residual shale, argillite
 - K Knobb Hill Fm.
 - Am Amphibolite
 - S Sandstone
 - Cs Calc-silicate
 - Hl Hornfels
- Trench
 Shaft
 Pit
 Prospect

- Lead anomalies
- Zinc "
- Silver "



PHOENIX COPPER PROJECT
 BATTLE MOUNTAIN CANADA INC
 SUMMARY MAP - Pb, Zn & Ag

DATE: DEC/90	PROJECT# 25-94	PL 5
NTB: 22/2	SCALE 1:10000	59

21,240
 fact 343

GEOLOGICAL BRANCH
 ASSESSMENT REPORT