

RECEIVED

JUN 23 1999

Gold Commissioner's Office
VANCOUVER, B.C.

SAIL PROPERTY

1998 ASSESSMENT REPORT ON GEOLOGICAL MAPPING,

GEOCHEMICAL ROCK AND SOIL SAMPLING SURVEYS

ON THE SAIL 1 TO 8 MINERAL CLAIMS,

CASSIAR MOUNTAINS, BRITISH COLUMBIA

DATES WORKED: August 4 to 29, 1998

**NTS MAP AREA 104I/15
LATITUDE 58° 47'00" N, LONGITUDE 128° 45'00" W
LIARD MINING DIVISION**

VOLUME II

**Prepared for:
BOLIDEN LIMITED
904-1055 DUNSMUIR STREET
P.O. BOX 49066, THE BENTALL CENTRE
VANCOUVER, B.C., CANADA
V7X 1C4**

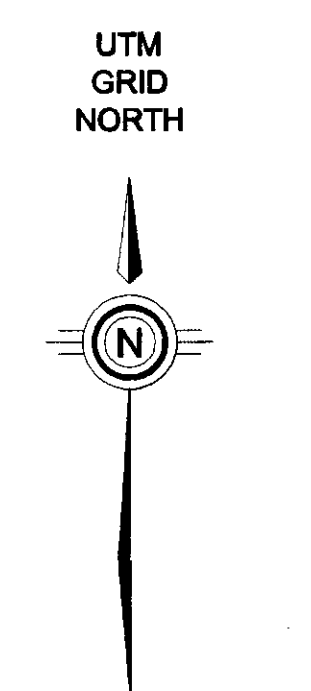
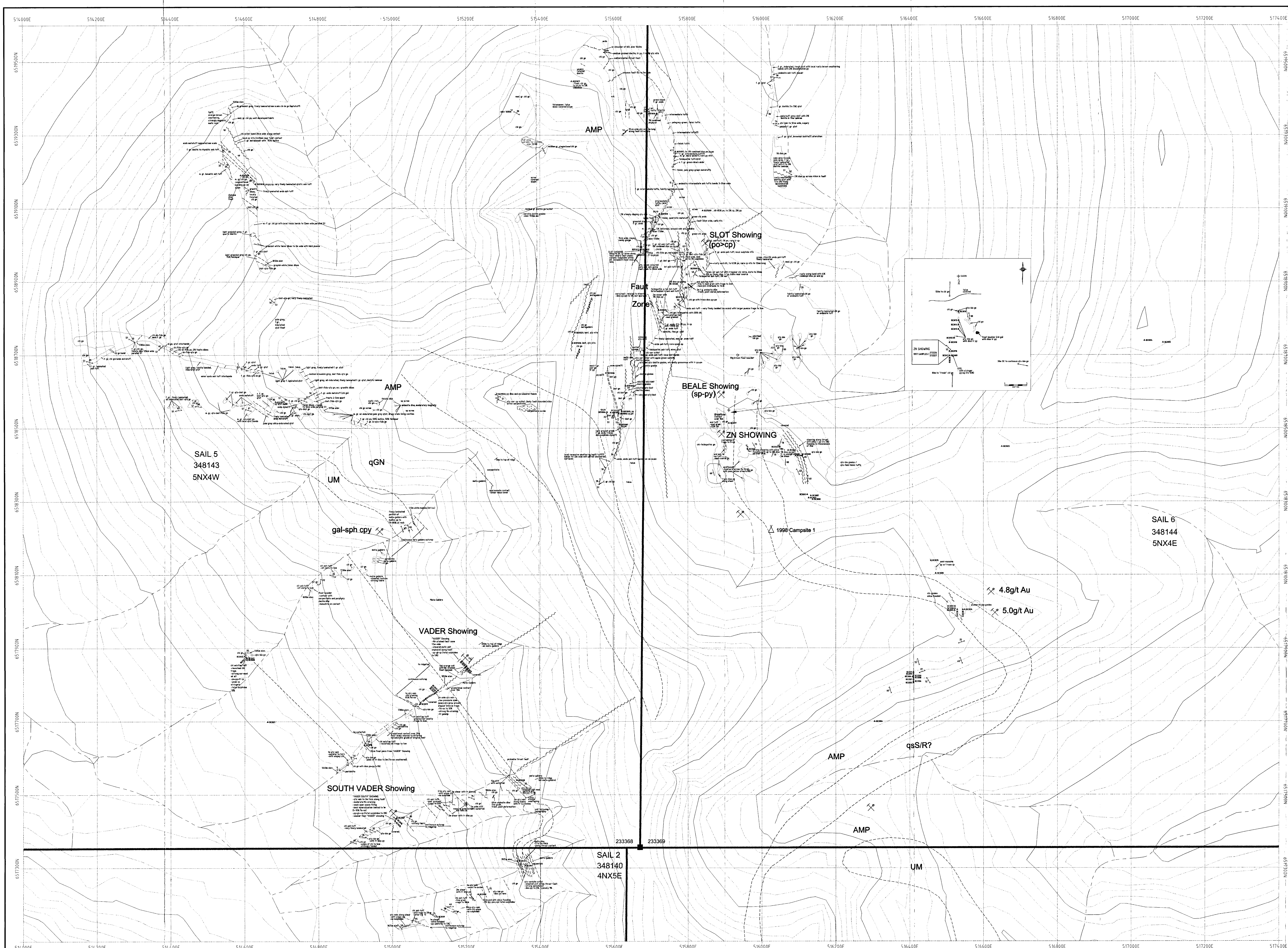
By:

**David J. Pawliuk, P. Geo.
David A. Terry, Ph.D., P. Geo.**

June, 1999

APPENDIX F

OVERSIZED FIGURES



LEGEND

- ROCK TYPES**
- S Schist
 - Gn Gneiss
 - Pd Peridotite
 - Sp Saponinite
 - Gt Granite
 - Fv Felsic volcanic
 - Ft Felsic tuff
 - Ch Chert
- GENERAL ABBREVIATIONS**
- qtzose quartzose
 - rk rock
 - gss gossan
 - ph phytic
 - MnO manganese oxide
 - ocf outcrop
 - int intermediate
 - volc volcanic
 - FeOx iron Oxide
- MINERAL ABBREVIATIONS**
- py pyrite
 - cp chalcopyrite
 - po pyrrhotite
 - sl sphalerite
 - fd feldspar
 - bt biotite
 - qz quartz
 - chl chlorite
 - as arsenopyrite
 - ml malachite
 - sr sericite
 - hb hornblende
 - gl galena

- SYMBOLS**
- Claim boundary
 - Contour - 20 metre intervals
 - Creek
 - Rock sample
 - Foliation with dip, S
 - Fold axis M-, S-, Z-fold
 - Fold axial plane
 - Antiform
 - Fault
 - Geological contact
 - Outcrop
 - Showing

Boliden Limited

Work by: G. Terry
 Date Drawn: Feb. 8, 1999
 Checked By: [blank]
 Drawn By: [blank]
 Date Revised: [blank]

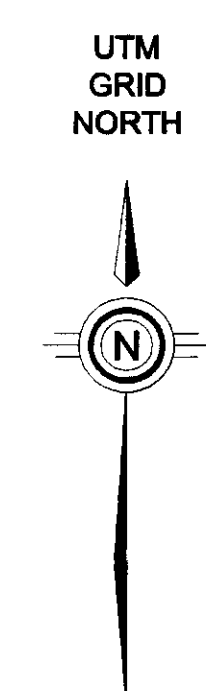
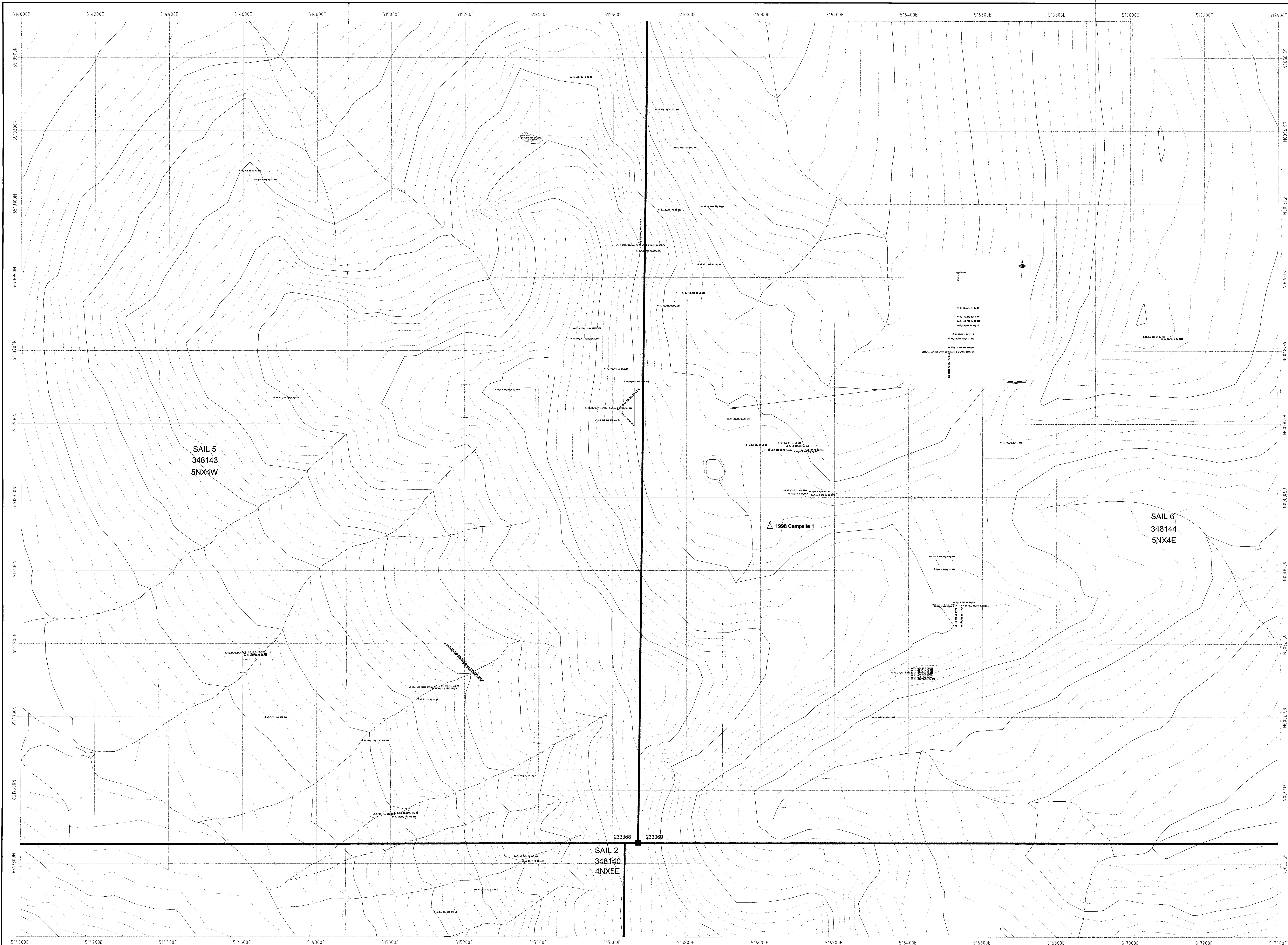
Revised By: Brian Coleman, Canada

Project: BEALE PROJECT
 Geology and Rock Sample Location - North Half

Scale: 1:3,000

Figure: 6.1

25,972



- SYMBOLS**
- Claim boundary
 - Contour - 20 metre intervals
 - Creek
 - Rock sample location and geochemistry (Au, Ag, Cu, Pb, Zn, Ba)

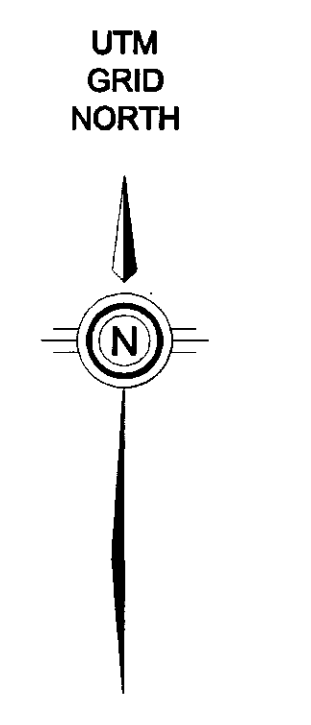
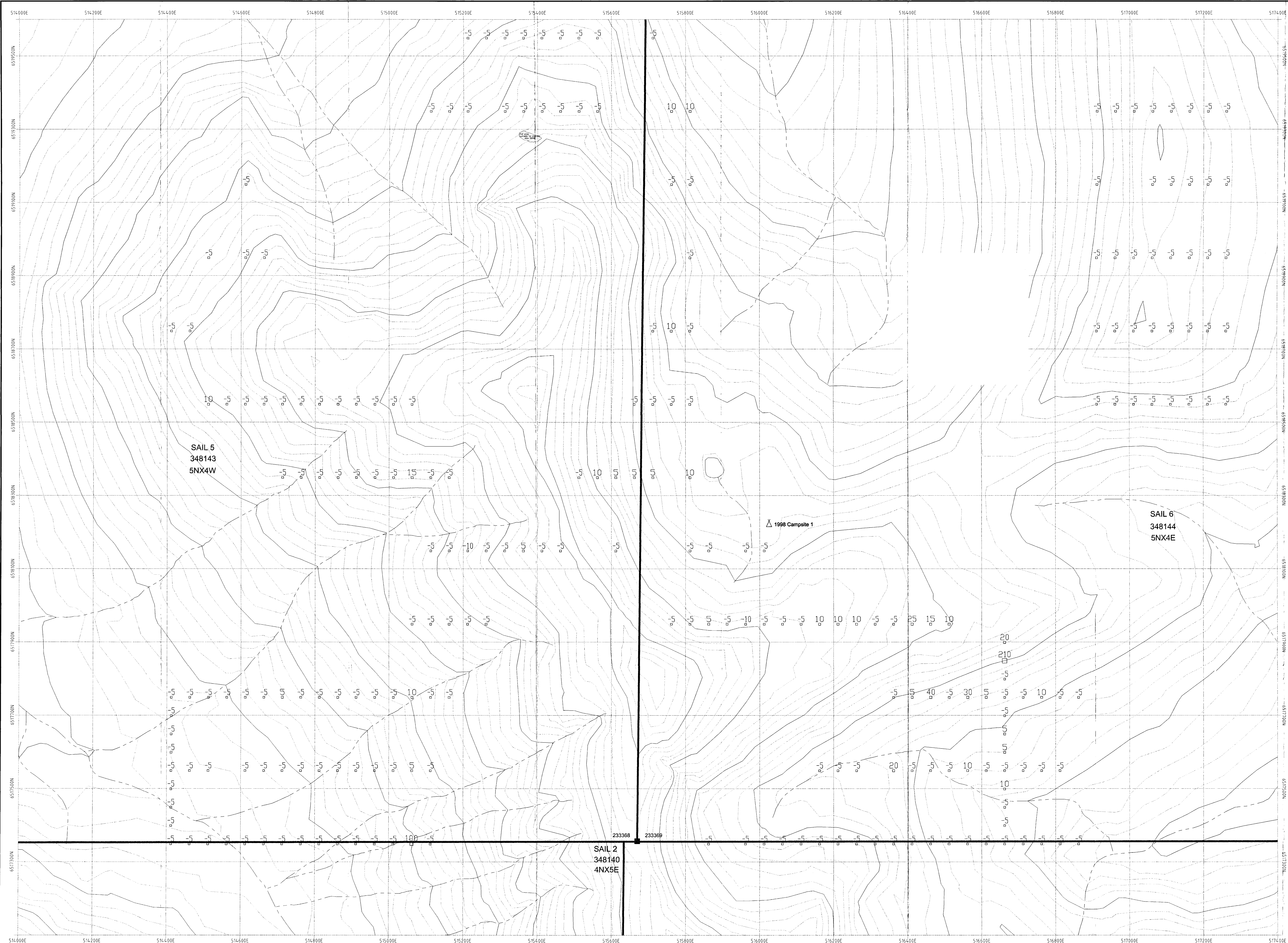


Boliden Boliden Limited

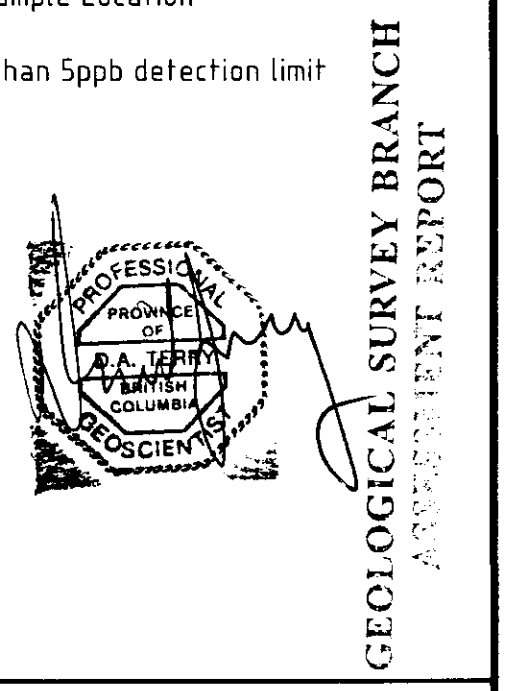
Work by	12 Terry
Date Entered	Feb 6, 1999
Entered By	J. Chan
Date Revised	
Revised By	
Mapsheet	100 0 100 200 300m
File Name	SCALE 1:3,000
Scale north.dwg	Figure 6.2

BEALE PROJECT
Rock Geochemistry - North Half
Au, Ag, Cu, Pb, Zn, Ba

25,932



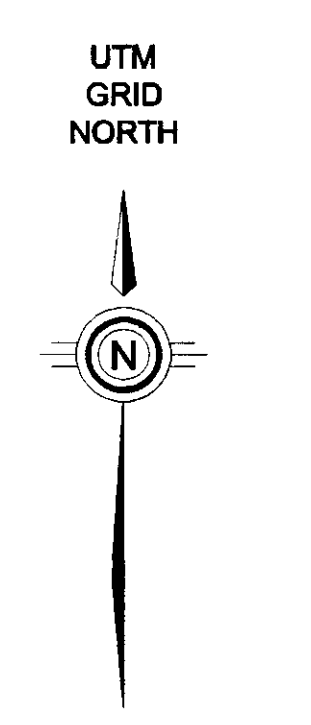
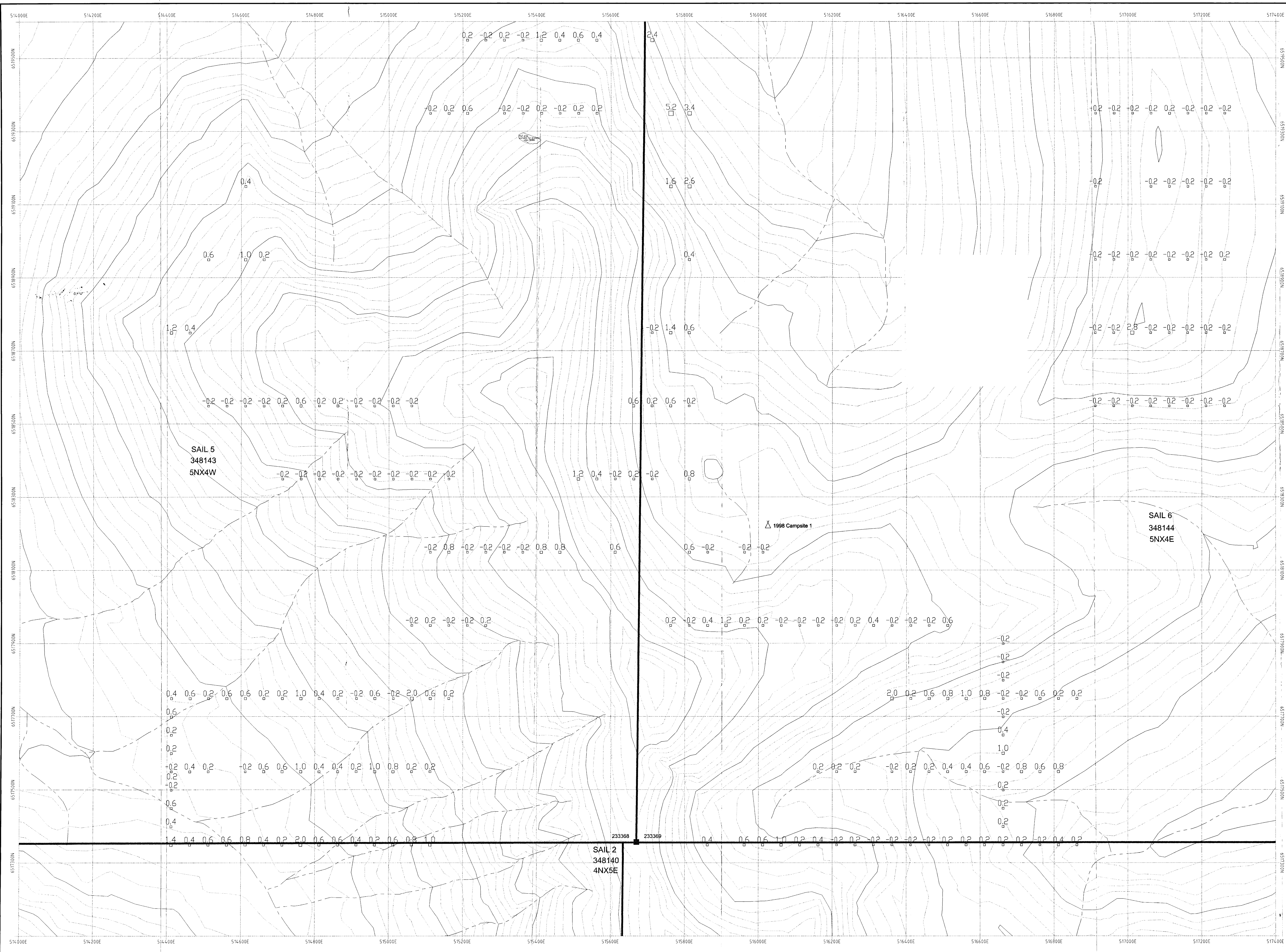
- SYMBOLS**
- Claim boundary
 - Contour - 20 metre intervals
 - Creek
 - Soil Sample Location
 - Less than 5ppb detection limit



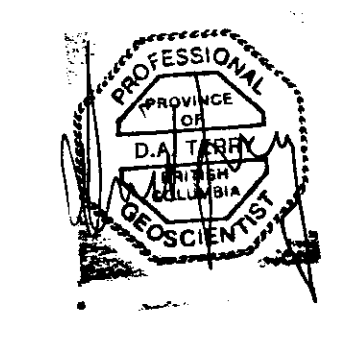
Boliden Boliden Limited

Work by G. Terry		BEALE PROJECT Au in Soil (ppb) - North Grid
Date Entered Feb. 8, 1999		
Drawn By J. Goss		
Checked By G. Terry		
Revised By	100 0 100 200 300m SCALE 1:3,000	Figure 7.1

25,932



- SYMBOLS**
- Claim boundary
 - Contour - 20 metre intervals
 - Creek
 - Soil Sample Location
 - Less than 0.2ppm detection limit

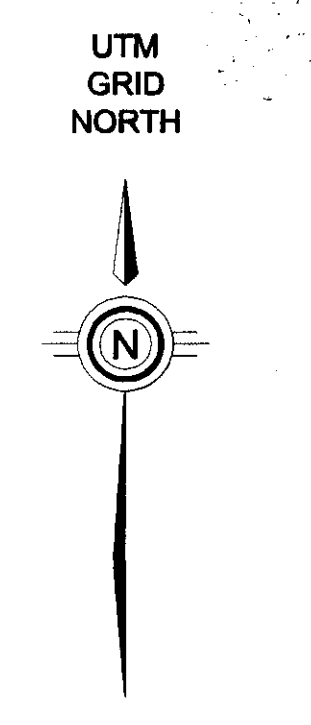
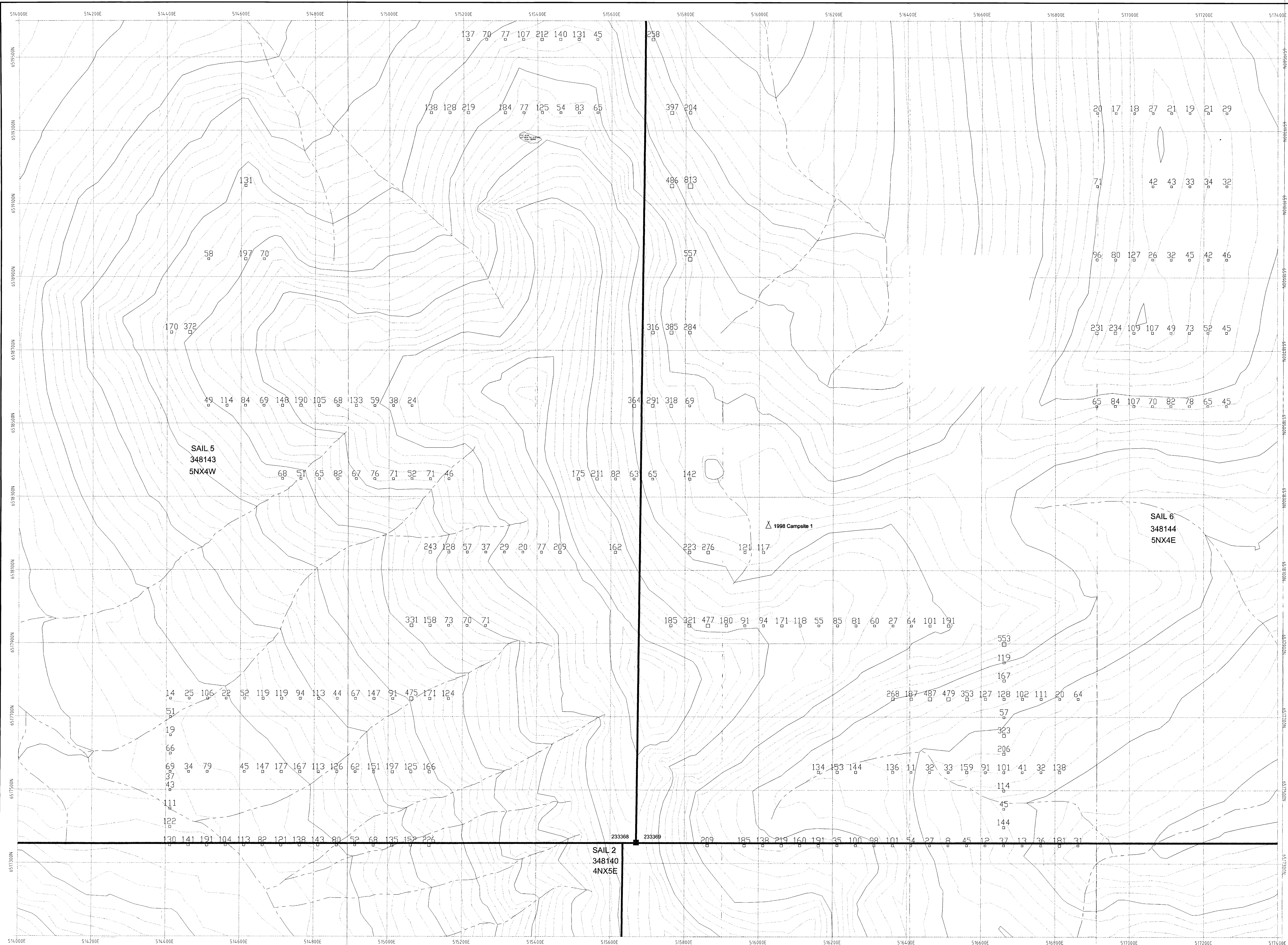


GEOLOGICAL SURVEY BRANCH
CANADIAN GEOLOGICAL SERVICE

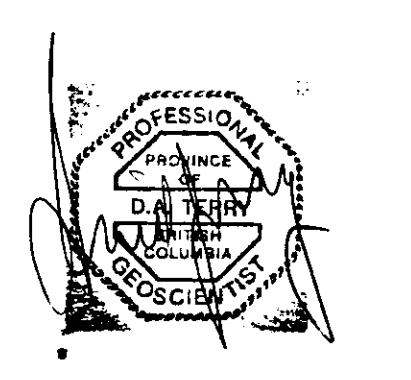
256152

Boliden Boliden Limited

Work by G. Perry	BEALE PROJECT Ag in Soil (ppm) - North Grid
Client Fido, R. 1999	
Created by J. Yain	
Checked by	
Revised by	
Mapsheet File Name Scale north	100 0 100 200 300m SCALE 1:3000 7.2



- SYMBOLS**
- Claim boundary
 - Contour - 20 metre intervals
 - Creek
 - Soil Sample Location



GEOLOGICAL SURVEY BRANCH
DEPARTMENT OF NATURAL RESOURCES
TECHNICAL REPORT

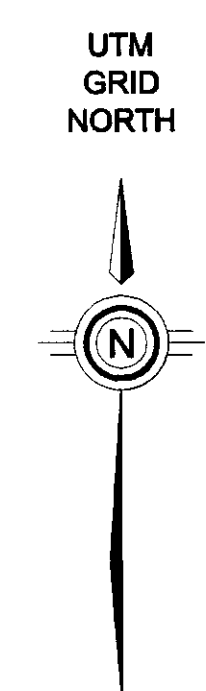
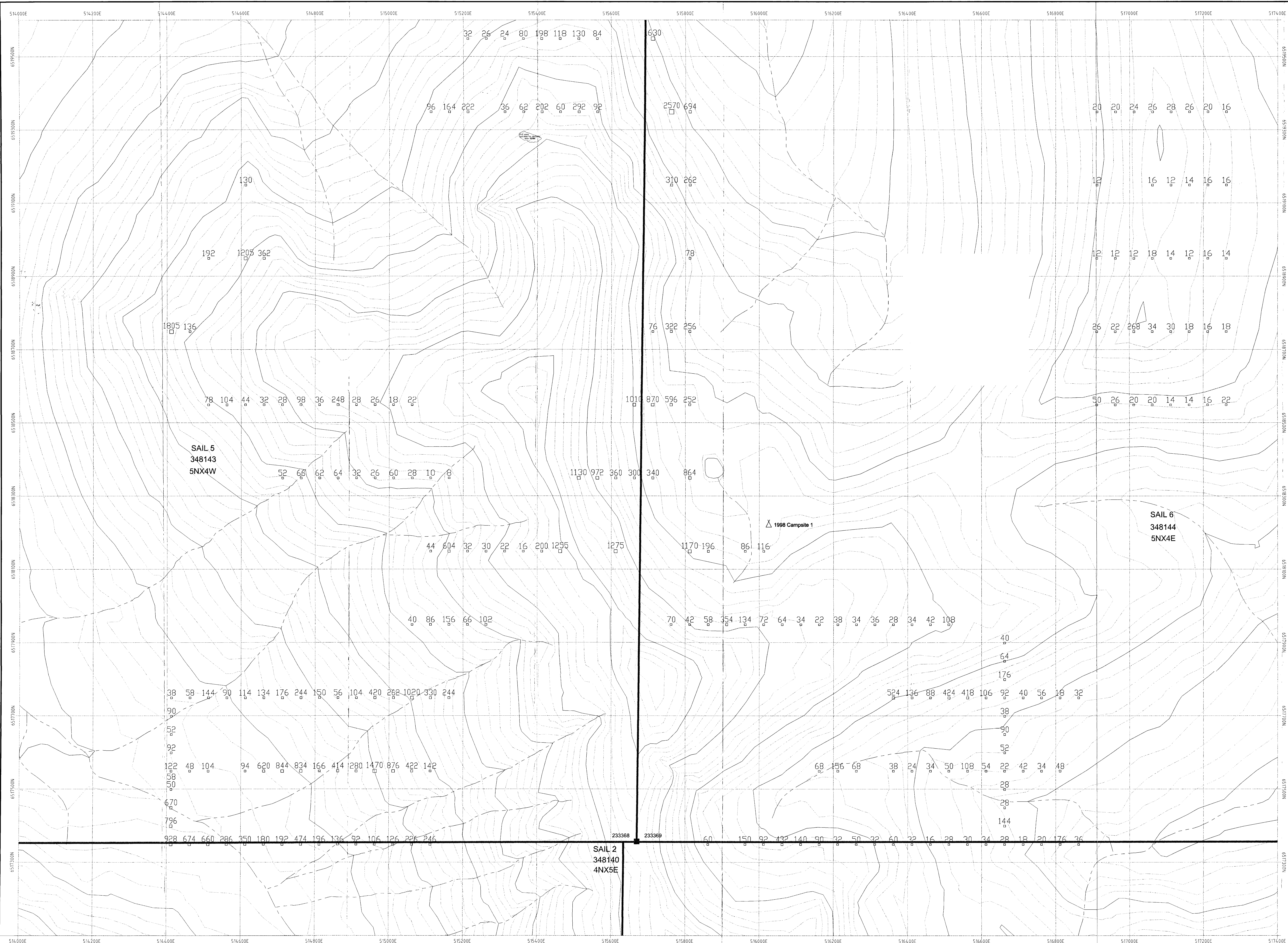
256152

Boliden Boliden Limited

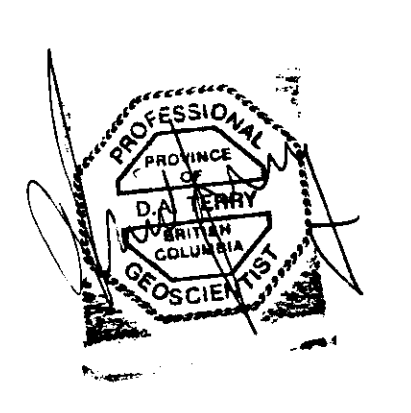
Work by	Geology
Date Drafted	Feb 8, 1999
Checked By	J. Swan
Date Revised	
Revised By	
Mapsheet	100 0 100 200 300m Figure
File Name	Beale-north.dwg
Scale	SCALE 1:3,000
Figure	7.3

BEALE PROJECT
Cu in Soil (ppm) - North Grid

Urban Columbia, Canada



- SYMBOLS**
- Claim boundary
 - Contour - 20 metre intervals
 - Creek
 - Soil Sample Location



GEOTECHNICAL SURVEY BRANCH
 REPORT

25,932

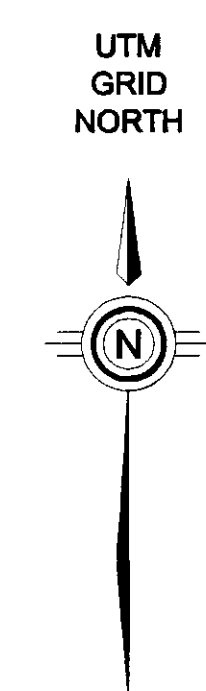
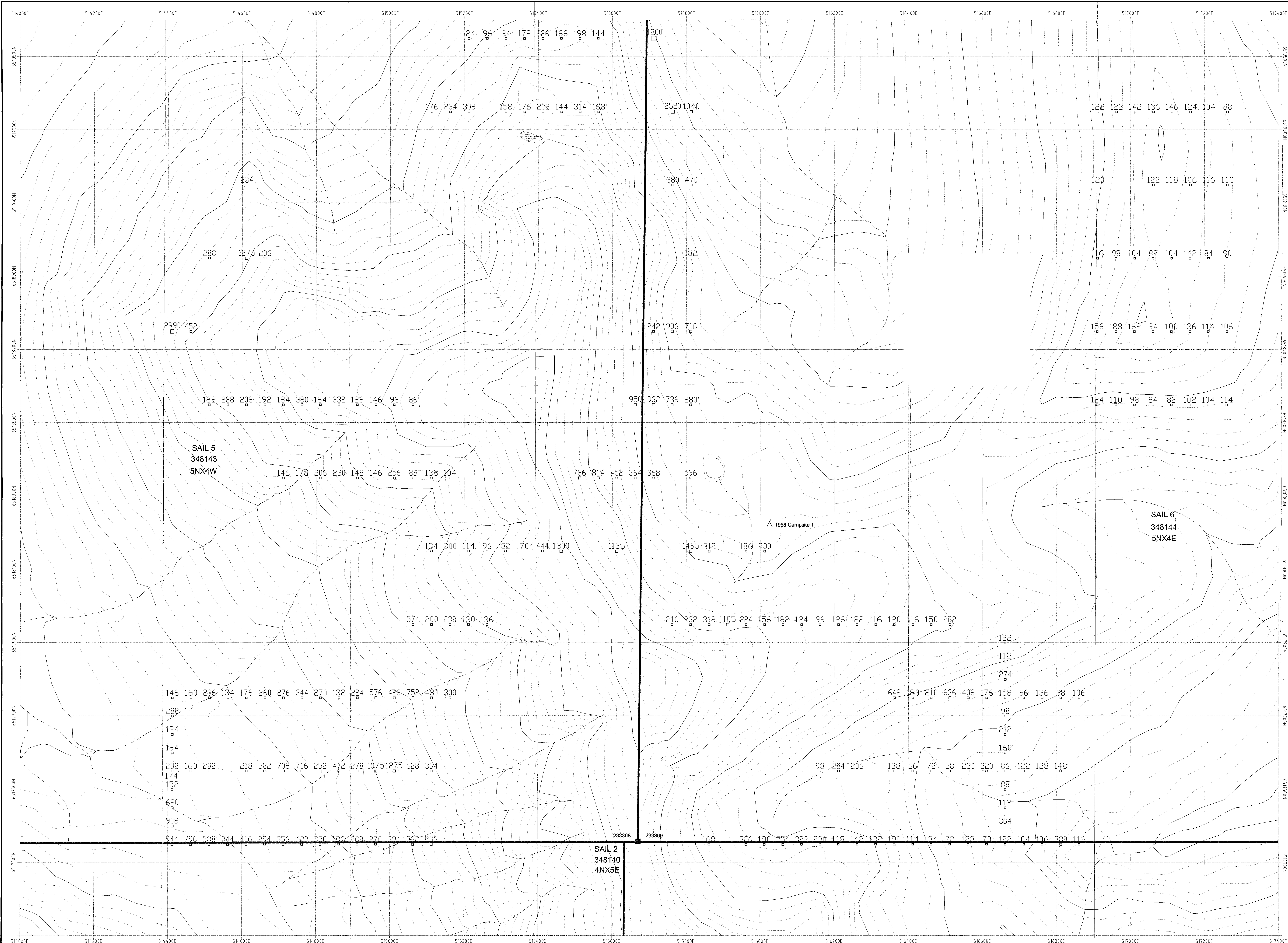
Boliden Boliden Limited

Work by	ES Terry
Date Drafted	Feb 8, 1999
Checked By	J. Swan
Drawn/Revised	
Project No.	348140
Scale	1:3,000
Figure	7.4

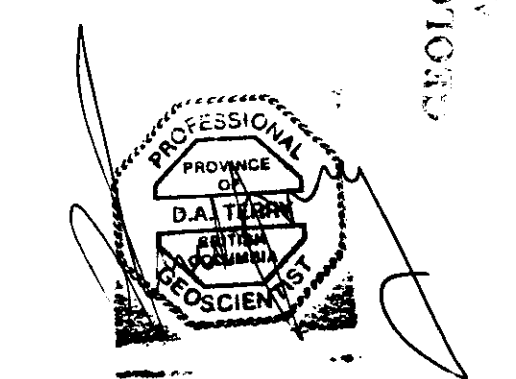
BEALE PROJECT

Pb in Soil (ppm) - North Grid

Scale: 1:3,000



- SYMBOLS**
- Claim boundary
 - Contour - 20 metre intervals
 - Creek
 - Soil Sample Location



25,932

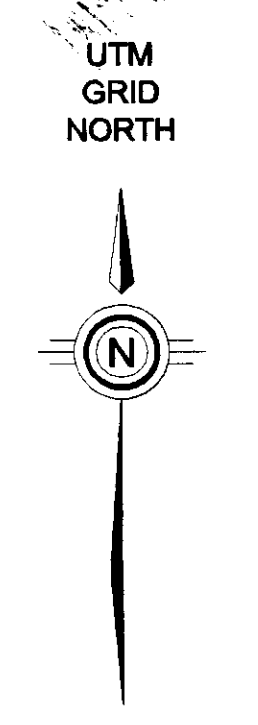
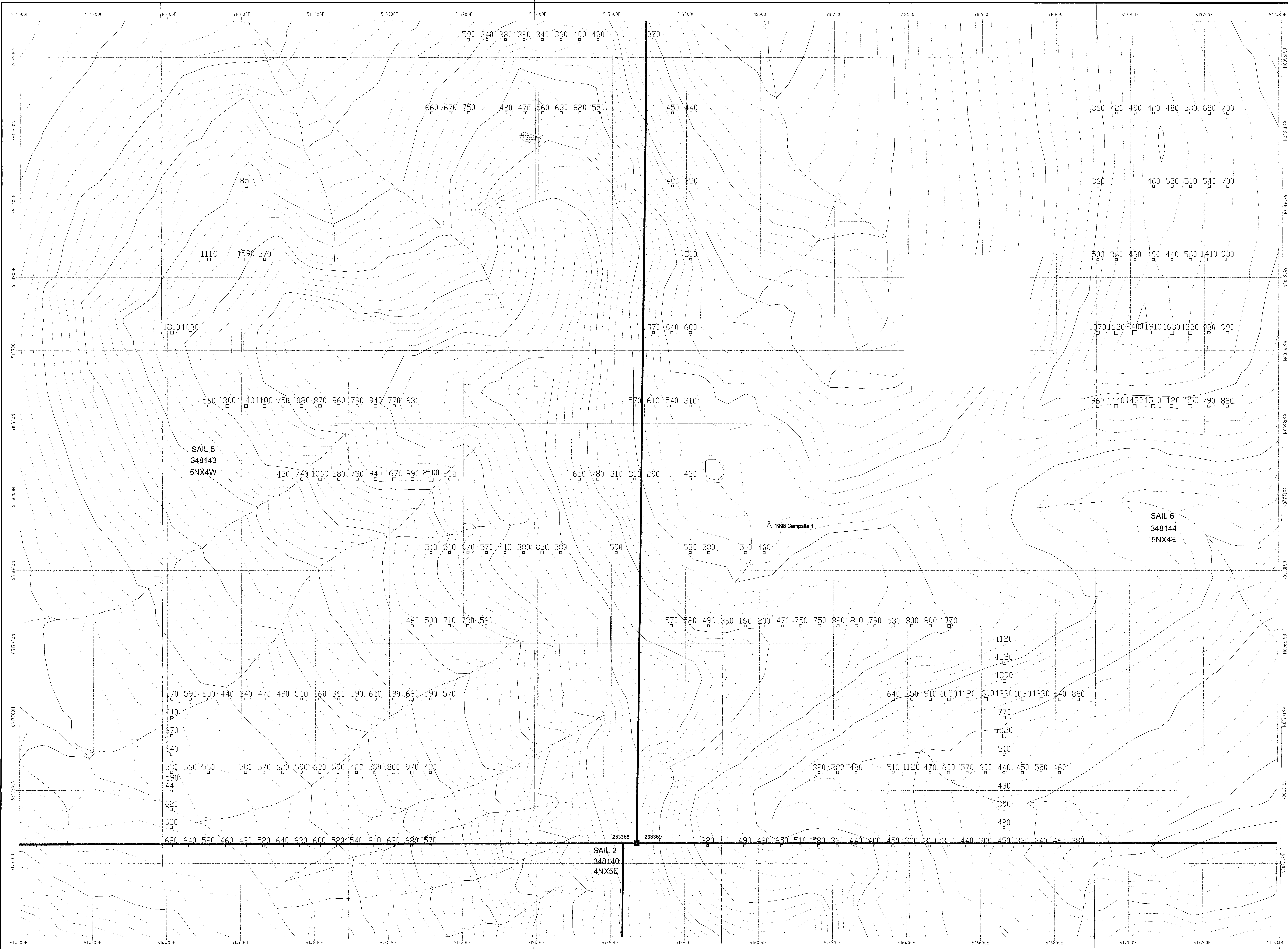
Boliden Limited





BEALE PROJECT
Zn in Soil (ppm) - North Grid

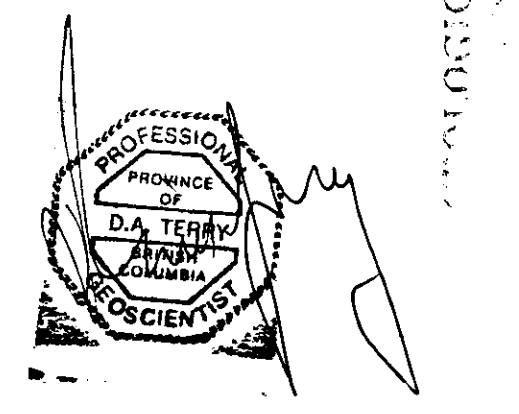
Work by: G. Terry
Data Entered: Fran R. 1999
Checked By: J. Van
Data Revised:
Reviewed By:
Approved:
File Name: beale-north.dwg

Scale: 1:3,000

Figure: 7.5



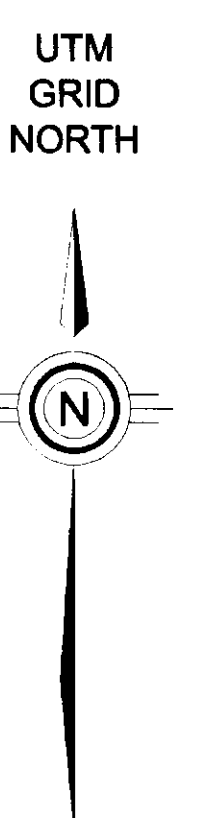
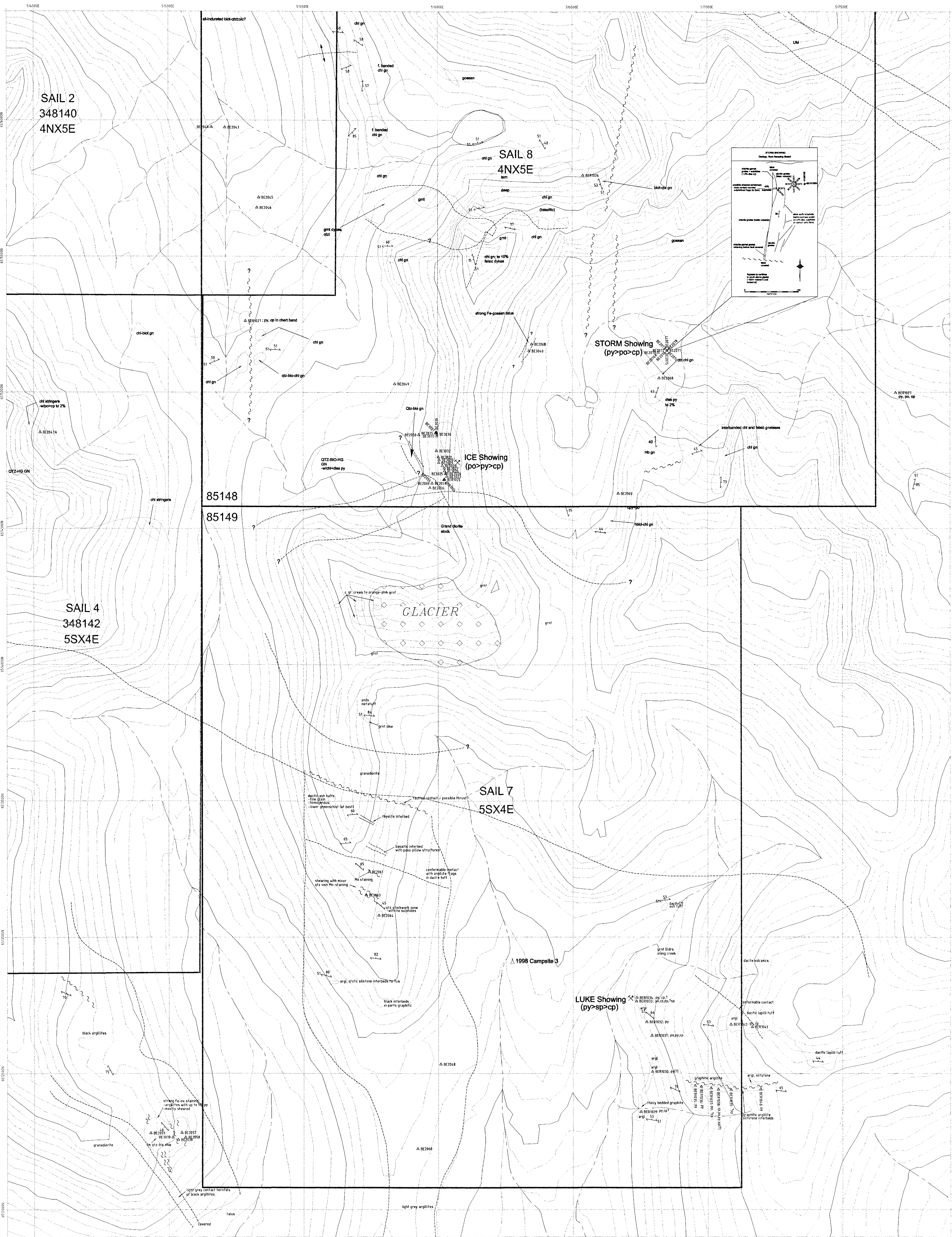
- SYMBOLS**
-  Claim boundary
 -  Contour - 20 metre intervals
 -  Creek
 -  Soil Sample Location



Boliden Boliden Limited

Drawn by G. Terry Date Drawn Feb. 8, 1999 Checked by J. Klein Date Revised	BEALE PROJECT Be in Soil (ppm) - North Grid
Reviewed by Brian Coulter, Geom.	Mapsheet File Name Beale.north.dwg
Scale 1:5,000	Figure 7.6

GEOLOGICAL SURVEY BRANCH
 DEPARTMENT OF NATURAL RESOURCES
 25,932



LEGEND

ROCK TYPES

Sc	Schist
Gn	Gneiss
Pd	Peridotite
Sp	Serpentine
Gf	Granite
Fv	Felsic volcanic
Ft	Felsic tuff
Ch	Chert

GENERAL ABBREVIATIONS

qtzose	quartzose
rk	rock
goss	gossan
ph	phyric
MnO	manganese oxide
o/c	outcrop
int	intermediate
volc	volcanic
FeOx	Iron Oxide

MINERAL ABBREVIATIONS

py	pyrite
cp	chalcopyrite
po	pyrrhotite
sl	sphalerite
fd	feldspar
bi	biotite
qtz	quartz
chl	chlorite
as	arsenopyrite
ml	malachite
sr	sericite
hb	hornblende
gl	galena

SYMBOLS

	Claim boundary
	Contour - 20 metre intervals
	Creek
	Rock sample
	Foliation with dip, S1
	Fold axis M-S-Z-fold
	Fold axial plane
	Antiform
	Fault
	Geological contact (assumed)
	Outcrop

25,932

Boliden Limited

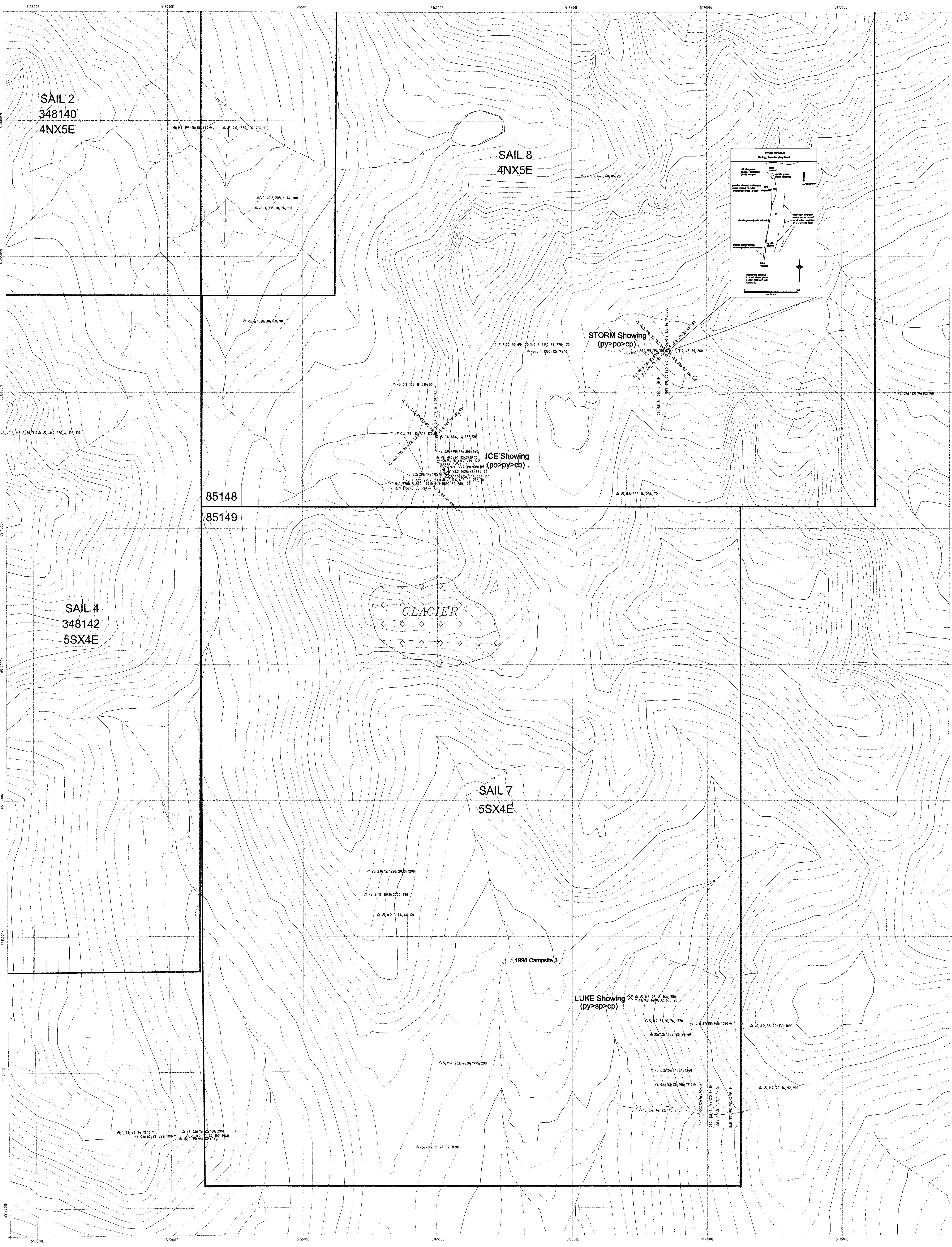
Work by
D. Terry
Date Drafted
Feb. 8, 1999
Drafted By
J. Klein
Date Revised
Revised By
Mapsheet
File Name
Beale-south.dwg

BEALE PROJECT
Geology and Rock Sample Location - South Half

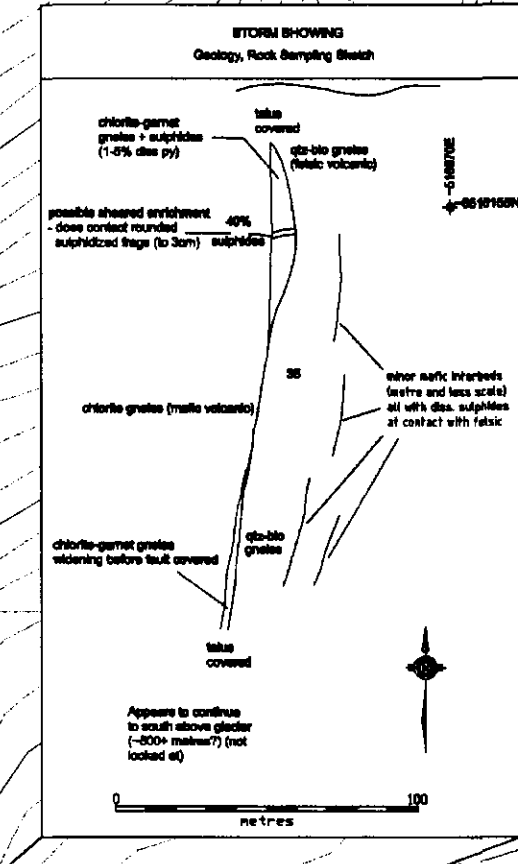
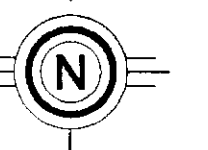
British Columbia, Canada

100 0 100 200 300m
SCALE 1:5,000

Figure
8.1



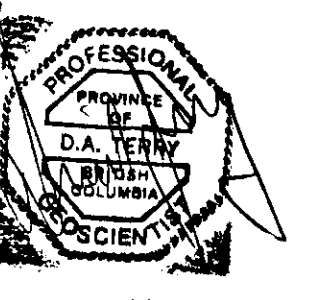
UTM
GRID
NORTH



- SYMBOLS**
- Claim boundary
 - Contour - 20 metre intervals
 - Creek
 - Rock sample location and geochemistry (Au; Ag; Cu; Pb; Zn; Ba)

MINERAL SURVEY BRANCH
CANADIAN GEOLOGICAL SERVICE

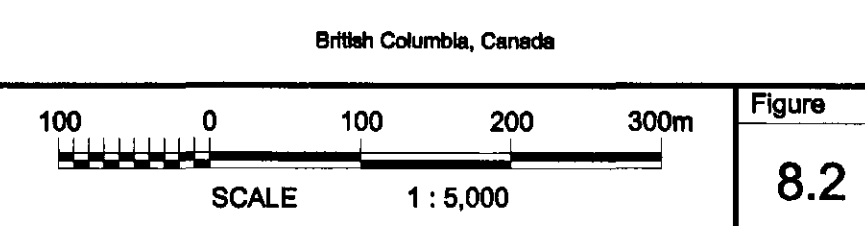
25,932

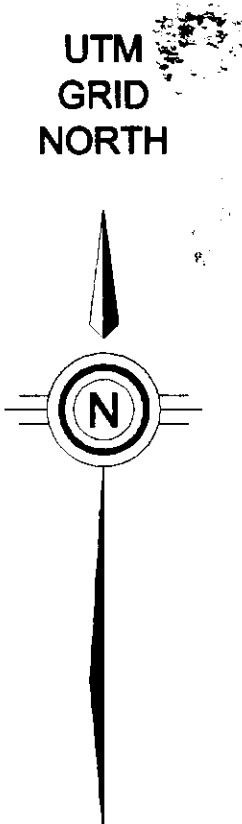
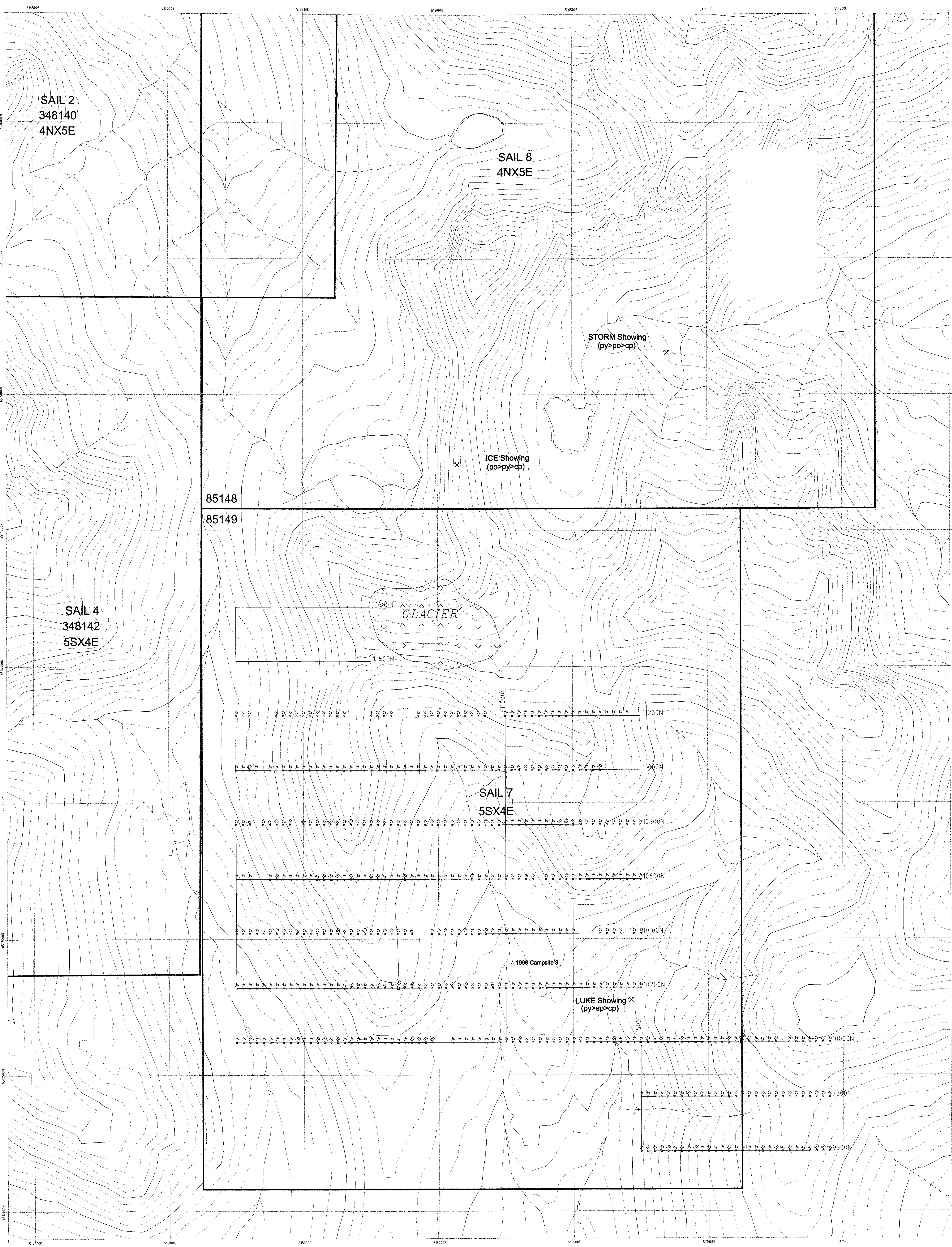


Boliden Boliden Limited

Work by
D. Terry
Date Drafted
Feb. 8, 1999
Drafted By
J. Klein
Date Revised
-
Revised By
-
Mapsheet
File Name
Beale-south.dwg

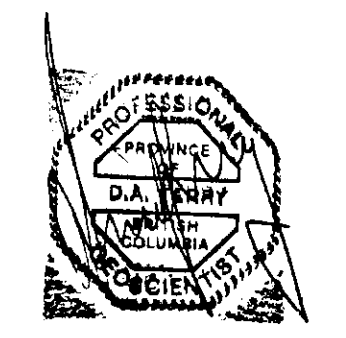
BEALE PROJECT
Rock Geochemistry - South Half
Au, Ag, Cu, Pb, Zn, Ba





- SYMBOLS**
- Claim boundary
 - Contour - 20 metre intervals
 - Creek
 - Soil sample location
 - Less than 5ppb detection limit

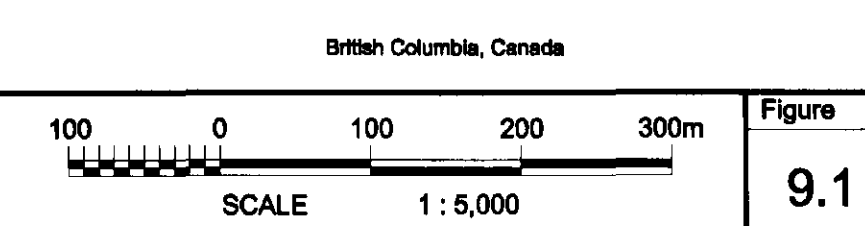
TOTAL SURVEY BRANCH
 REPORT
 25,932

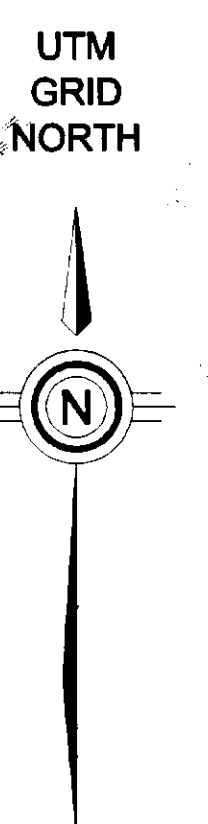
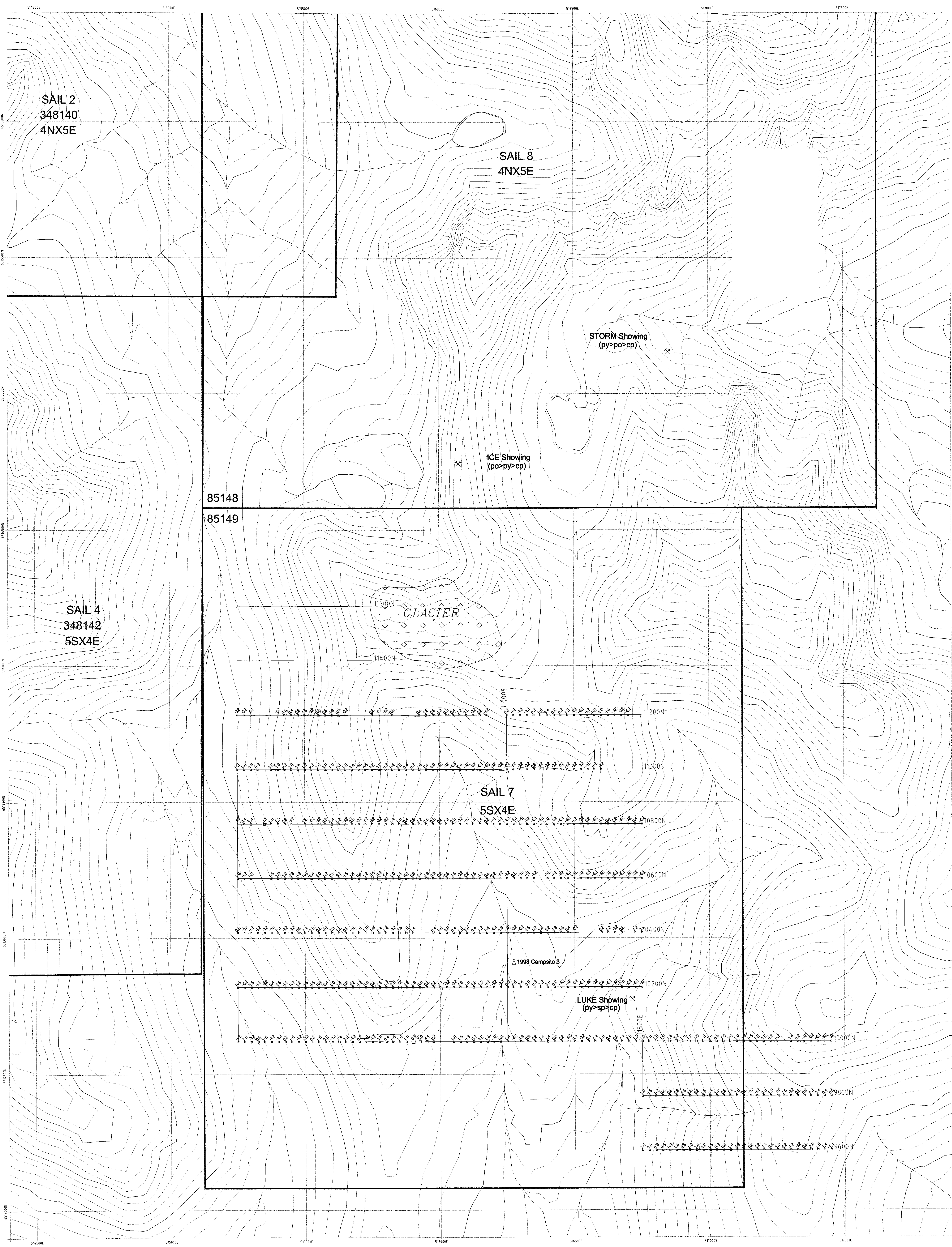


boliden Boliden Limited

Work by
 D. Farny
 Date Drafted
 Feb. 8, 1999
 Drafted By
 J. Klein
 Date Revised
 -
 Revised By
 -
 Mapsheet
 File Name
 Beale-south.dwg

BEALE PROJECT
 Au In Soil (ppb) - South Grid





- SYMBOLS**
- Claim boundary
 - Contour - 20 metre intervals
 - Creek
 - Soil sample location
 - Less than 0.2ppm detection limit

BRANCH

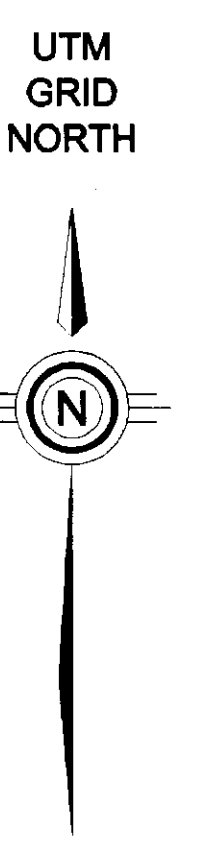
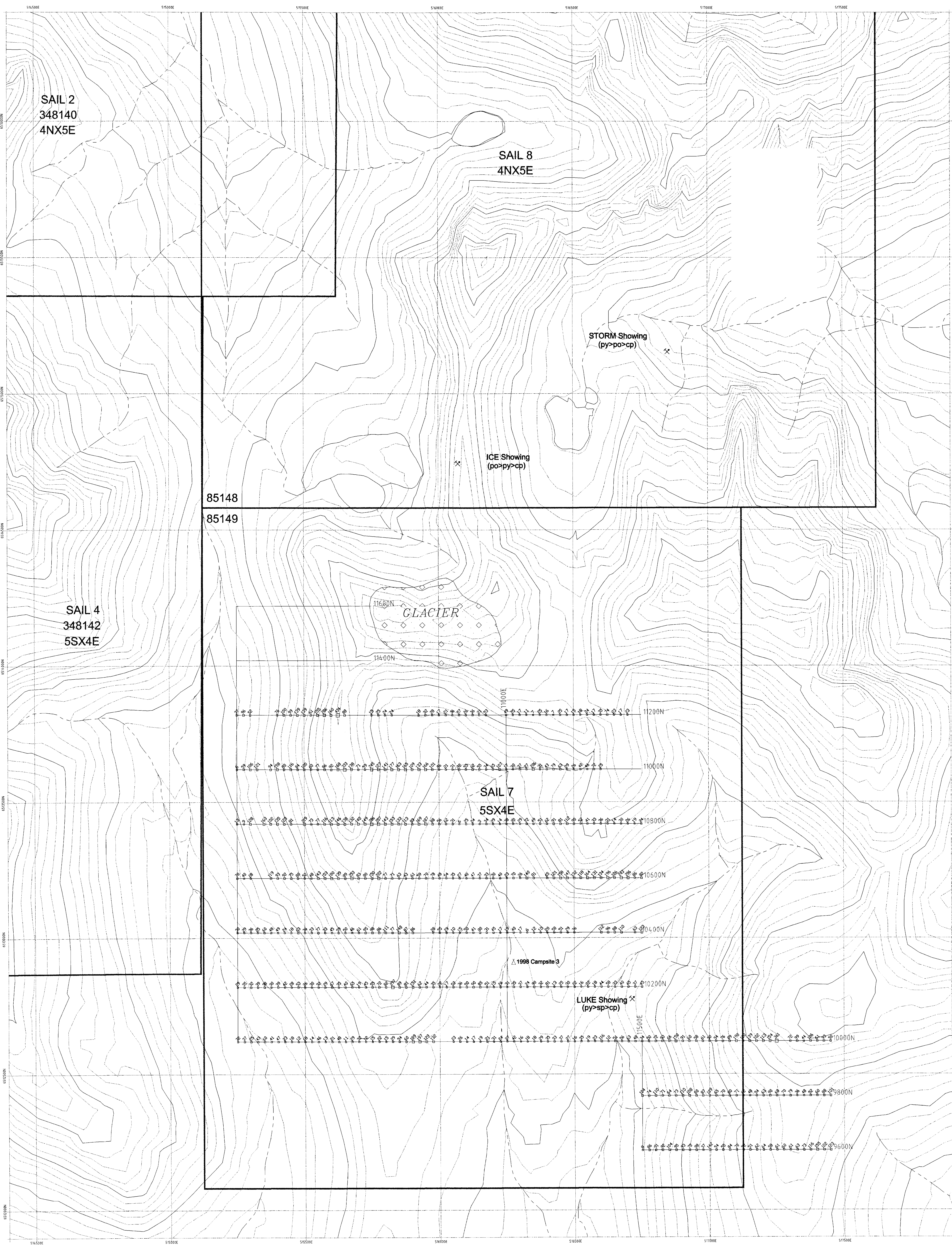
25,932





boliden Boliden Limited

BEALE PROJECT
Ag in Soil (ppm) - South Grid

Work By: D. Terry
 Date Drafted: Feb. 8, 1999
 Drafted By: J. Klein
 Date Revised: _____
 Revised By: _____

Mapsheet: _____
 File Name: Beale-south.dwg
 Scale: 1:5,000
 Figure: 9.2



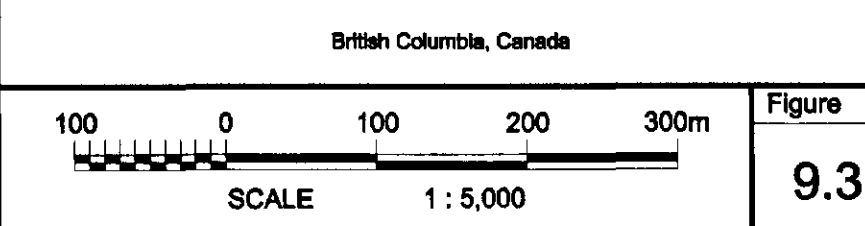
- SYMBOLS**
-  Claim boundary
 -  Contour - 20 metre intervals
 -  Creek
 -  Soil sample location

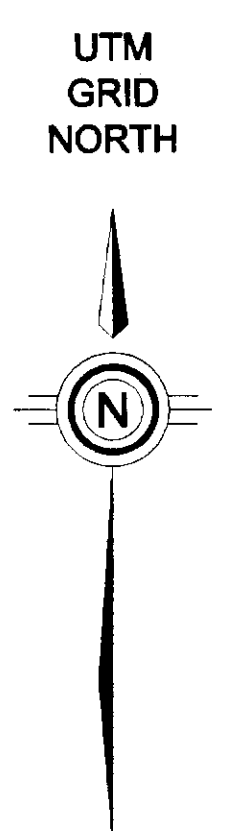
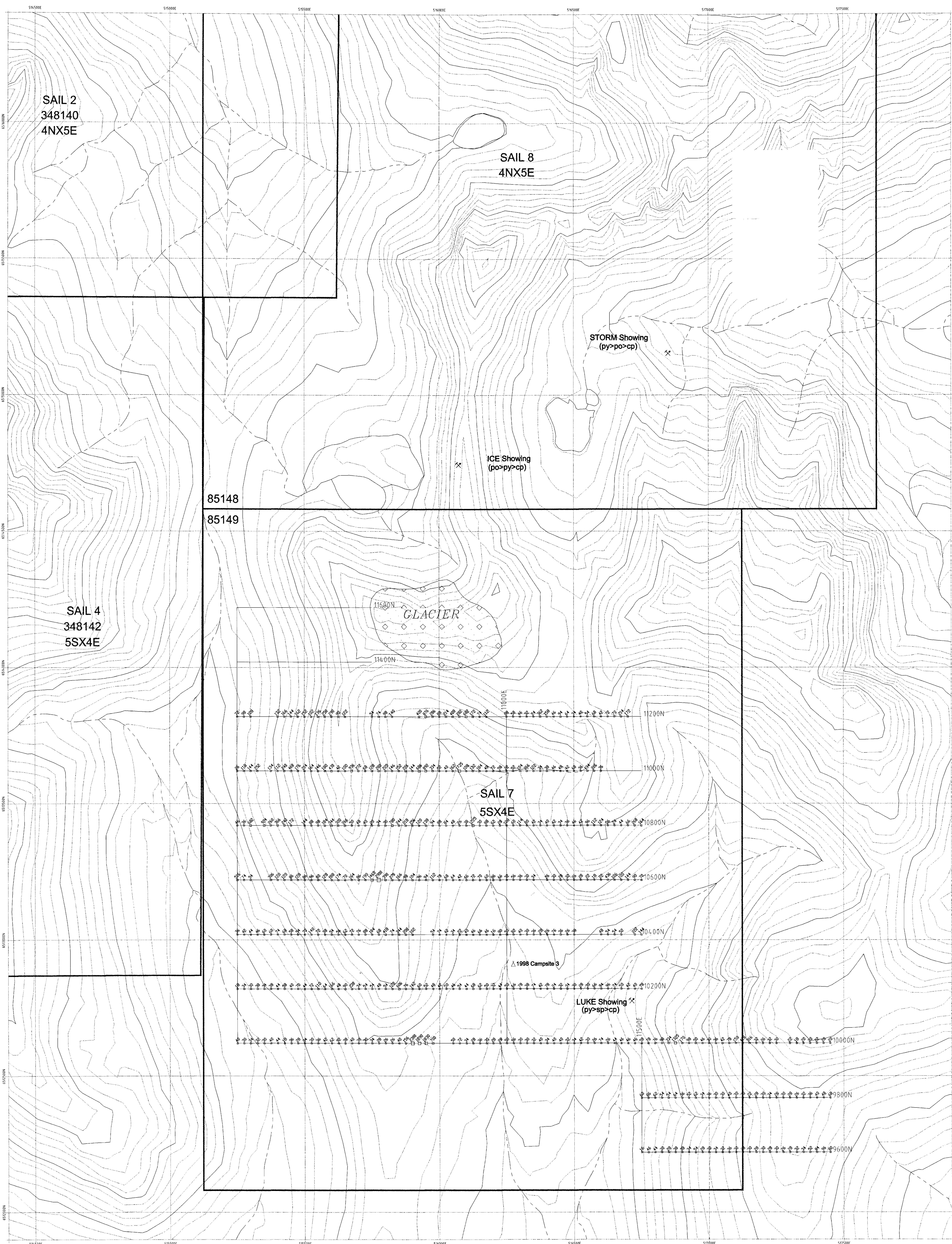
GEOLOGICAL SURVEY BRANCH
 ENVIRONMENT REPORT
25,932


boliden Boliden Limited

Work By
 D. Terry
 Date Drafted
 Feb. 8, 1999
 Drafted By
 J. Klein
 Data Revised
 Revised By

BEALE PROJECT
 Cu In Soil (ppm) - South Grid

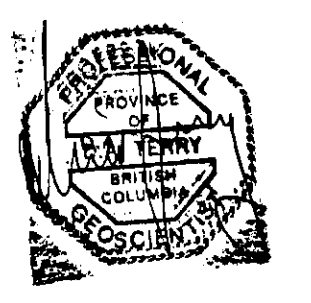




- SYMBOLS**
- Claim boundary
 - Contour - 20 metre intervals
 - Creek
 - Soil sample location

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

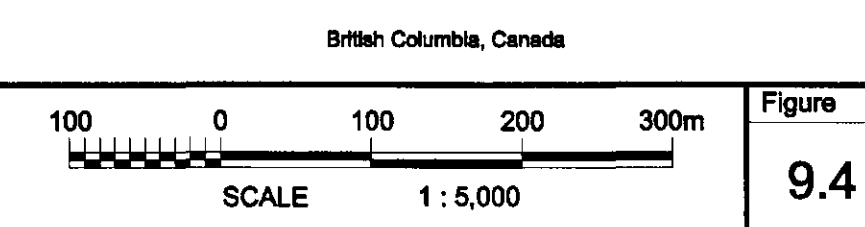
25,932

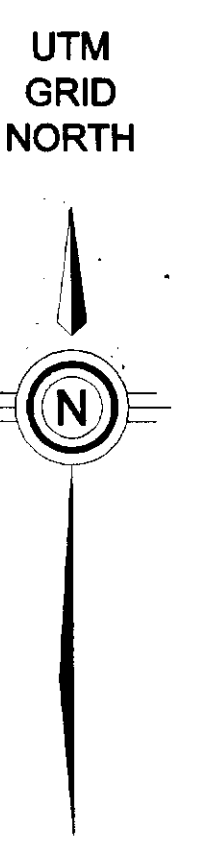
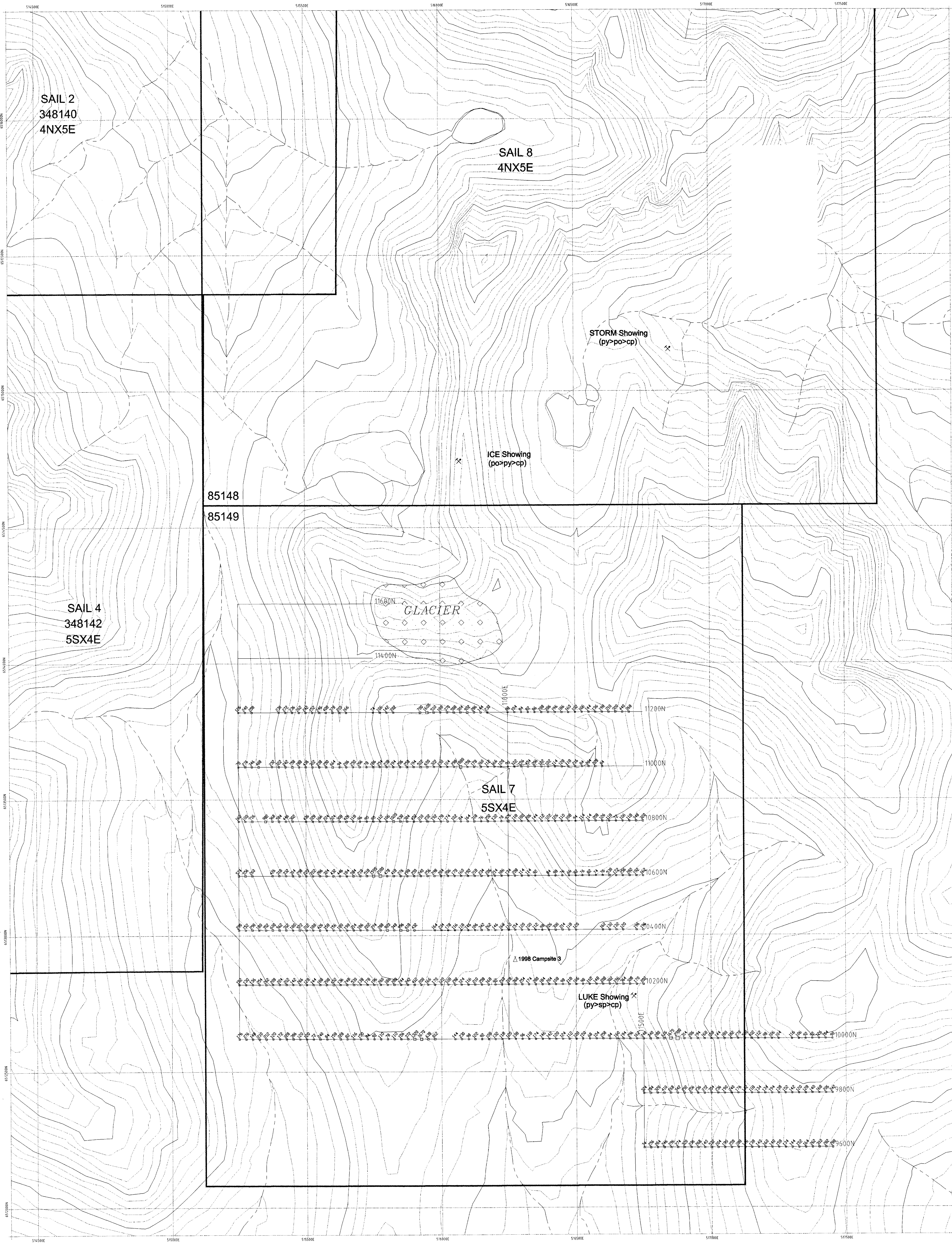


Boliden Boliden Limited

Work by
D. Ferry
Date Drafted
Feb. 8, 1999
Drafted By
J. Klein
Date Revised

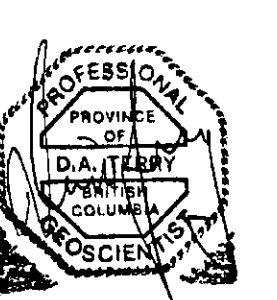
BEALE PROJECT
Pb In Soil (ppm) - South Grid





- SYMBOLS**
- Claim boundary
 - Contour - 20 metre intervals
 - Creek
 - Soil sample location

GEOLOGICAL SURVEY BRANCH
 ASSESSMENT REPORT
 25,932



boliden Boliden Limited

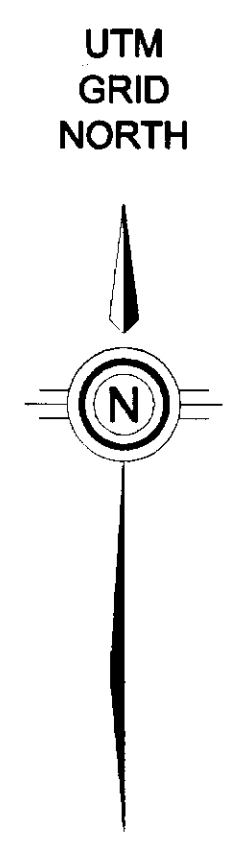
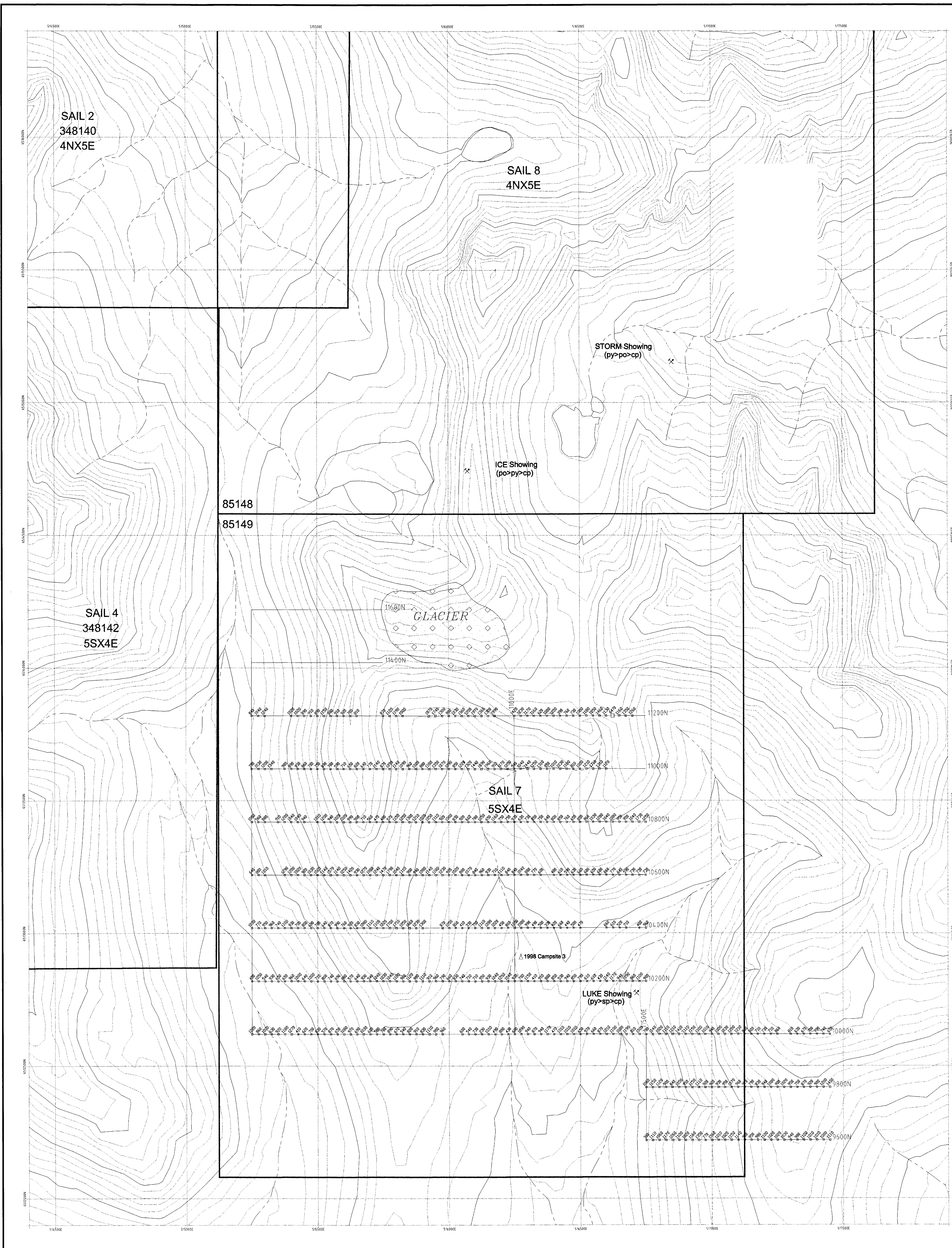
Work by
 D. Terry
 Date Drafted
 Feb. 8, 1999
 Drafted By
 J. Klein
 Date Revised

BEALE PROJECT
 Zn In Soil (ppm) - South Grid

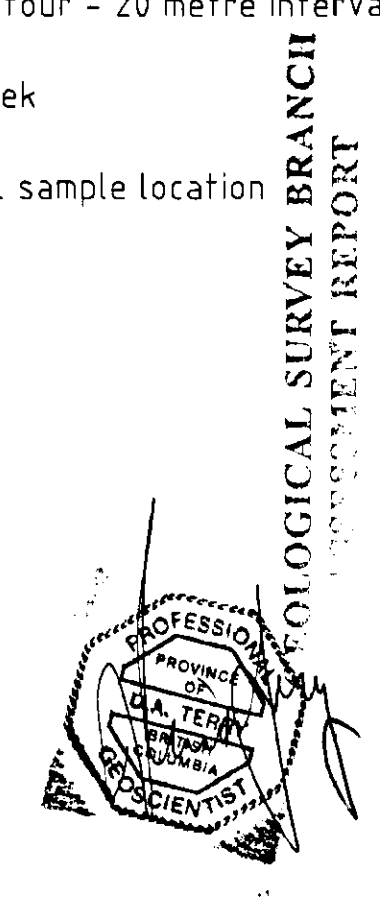
British Columbia, Canada

SCALE 1:5,000

Figure 9.5



- SYMBOLS**
- Claim boundary
 - Contour - 20 metre intervals
 - Creek
 - Soil sample location

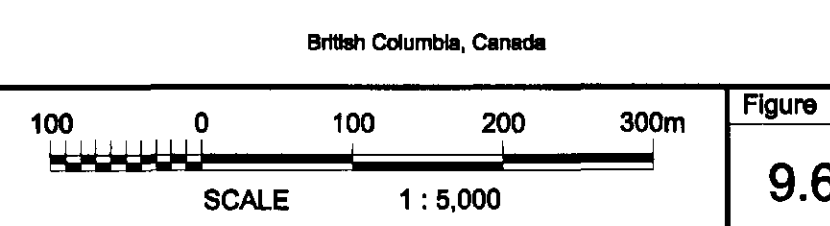


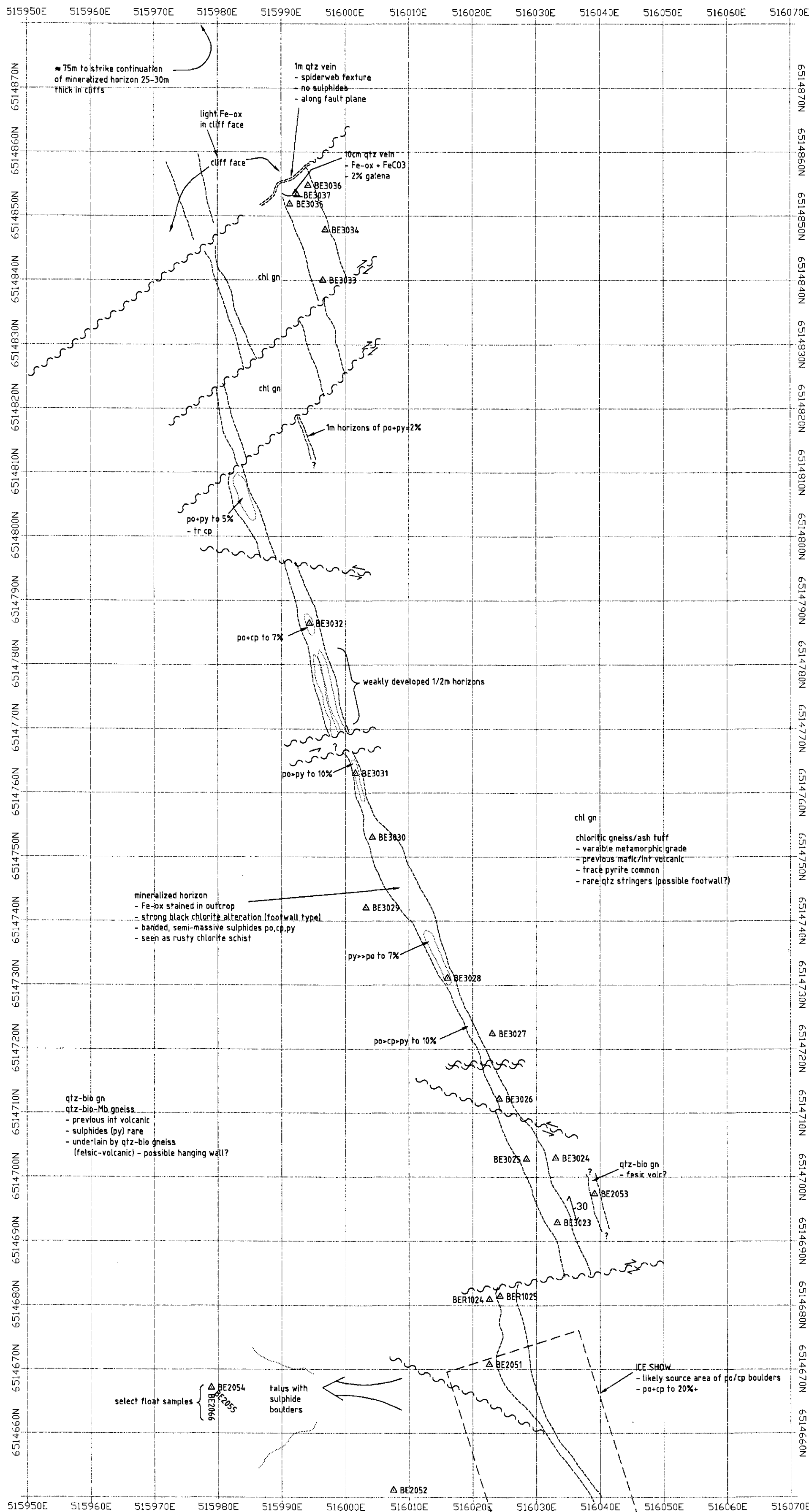
25,932

boliden Boliden Limited

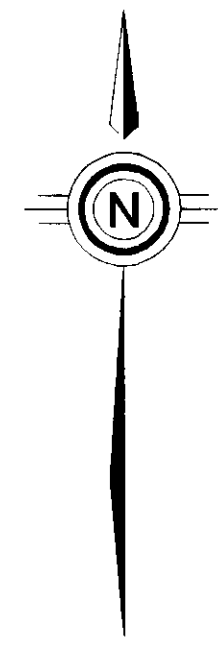
Work by
D. Terry
Date Drafted
Feb. 8, 1999
Drafted By
J. Klein
Date Revised
Revised By

BEALE PROJECT
Ba In Soil (ppm) - South Grid





UTM
GRID
NORTH



LEGEND

ROCK TYPES

Sc	Schist
Gn	Gneiss
Pd	Peridotite
Sp	Serpentinite
Gt	Granite
Fv	Felsic volcanic
Ft	Felsic tuff
Ch	Chert

GENERAL ABBREVIATIONS

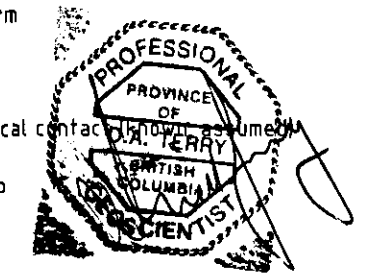
qtzose	quartzose
rk	rock
goss	gossan
ph	phyric
MnO	manganese oxide
o/c	outcrop
int	intermediate
volc	volcanic
FeOx	Iron Oxide

MINERAL ABBREVIATIONS

py	pyrite
cp	chalcopyrite
po	pyrrhotite
sl	sphalerite
fd	feldspar
bi	biotite
qtz	quartz
chl	chlorite
as	arsenopyrite
ml	malachite
sr	sericite
hb	hornblende
gl	galena

SYMBOLS

	Claim boundary
	Contour - 20 metre intervals
	Creek
	Rock sample - bedrock, float
	Foliation with dip, S ₁
	Fold axis: M-, S-, Z-fold
	Fold axial plane
	Antiform
	Fault
	Geological contact
	Outcrop



GEOLOGICAL SURVEY BRANCH
TECHNICAL REPORT

25,952

boliden Boliden Limited

Work by	K. Gibson & M. Pedberg
Date Drafted	Nov. 28, 1998
Drafted By	J. Klein
Date Revised	-
Revised By	-
Mapsheet	-
File Name	lceshow.dwg

BEALE PROJECT
ICE SHOWING - Geology, Sampling

Claim: Sall 7

British Columbia, Canada

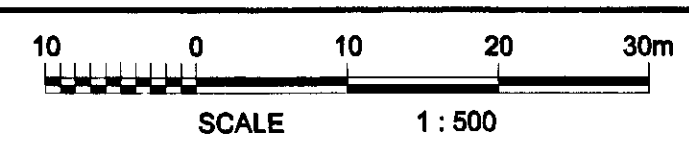


Figure
10.1