

REPORT ON THE 1999 EXPLORATION PROGRAM

ON THE TODD CREEK PROPERTY

SKEENA MINING DIVISION,

STEWART GOLD CAMP,

NORTHWESTERN BRITISH COLUMBIA

APPENDICES B, C:

**DRILL HOLE CROSS-SECTIONS,
VERTICAL LONGITUDINAL
SECTIONS**

APPENDIX B:

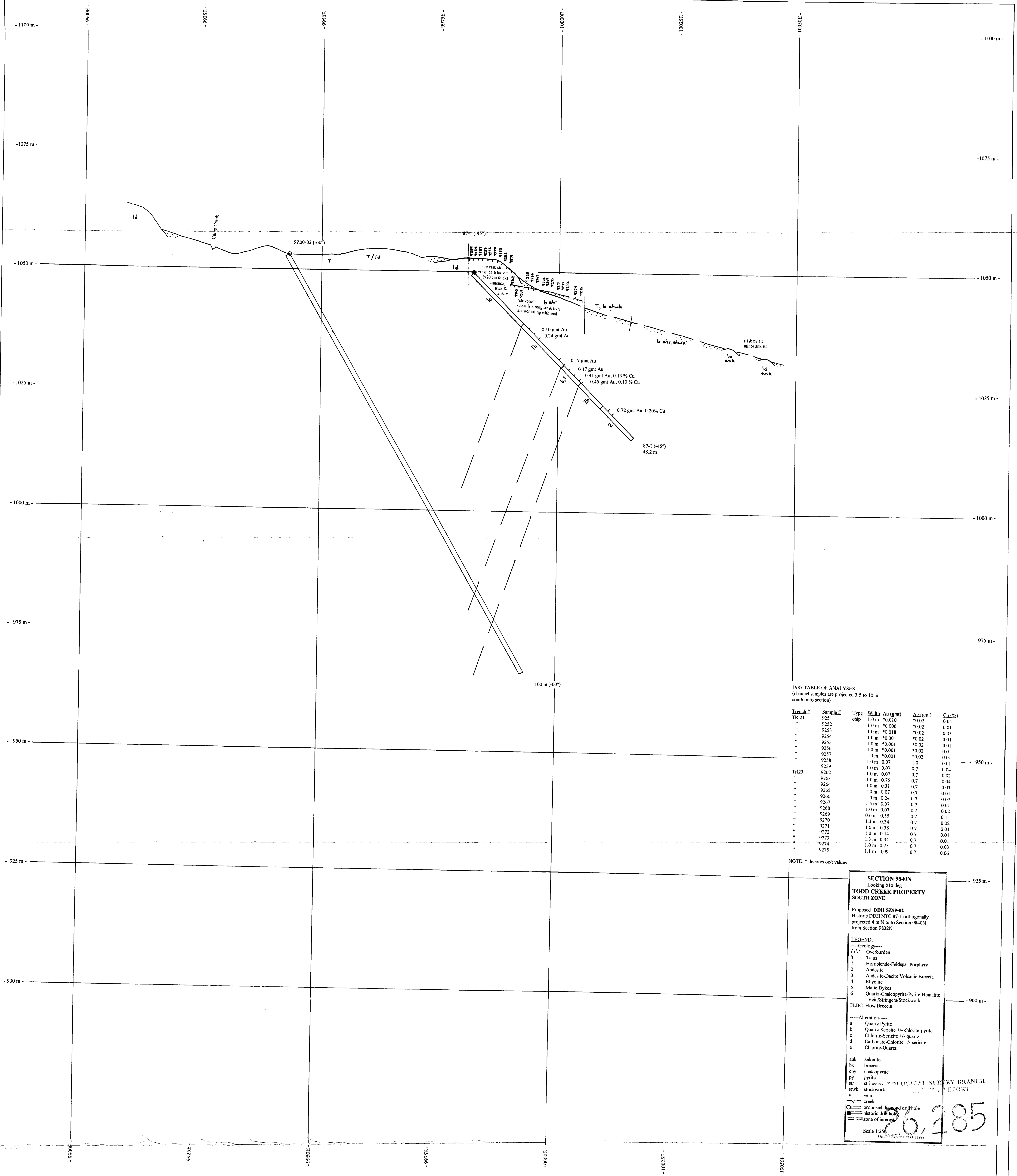
DRILL HOLE CROSS-SECTIONS

LIST OF CROSS-SECTIONS:

TITLE:	APPENDIX B LOCATION:
SECTION 9840N, SOUTH ZONE DEPOSIT.....	POCKET A
SECTION 9960N, SOUTH ZONE DEPOSIT.....	POCKET A
SECTION 10115N, SOUTH ZONE DEPOSIT.....	POCKET B
SECTION 10150N, SOUTH ZONE DEPOSIT.....	POCKET B
SECTION DDHNEXTSZ00-01, NEXT ZONE.....	POCKET C
SECTION DDHBZ00-01, B ZONE, NORTH ZONE, C GRID.....	POCKET D
SECTION DDHBZ00-02, B ZONE, NORTH ZONE, C GRID.....	POCKET D
SECTION 10050N, A ZONE, NORTH ZONE, C GRID.....	POCKET E
SECTION DDHNEZ00-01, NORHT ZONE, C GRID.....	POCKET E
SECTION 49+00N, AMARILLO ZONE.....	POCKET F
SECTION 50+00N, AMARILLO ZONE.....	POCKET F
SECTION DDHAZ00-03.....	POCKET F

LIST OF VERTICAL LONGITUDINAL SECTIONS:

TITLE:	APPENDIX C LOCATION:
VLS 1, ZONE A, SOUTH ZONE DEPOSIT.....	POCKET A
VLS 2, ZONE B, SOUTH ZONE DEPOSIT.....	POCKET A
ZONE A, NORTH ZONE, GRID C.....	POCKET B



1987 TABLE OF ANALYSES
(channel samples are projected 3.5 to 10 m south onto section)

Trench#	Sample#	Type	Width	Au (gmt)	Ag (gmt)	Cu (%)
TR 21	9251	chip	1.0 m	*0.010	*0.02	0.04
"	9252	"	1.0 m	*0.006	*0.02	0.01
"	9253	"	1.0 m	*0.018	*0.02	0.03
"	9254	"	1.0 m	*0.001	*0.02	0.01
"	9255	"	1.0 m	*0.001	*0.02	0.01
"	9256	"	1.0 m	*0.001	*0.02	0.01
"	9257	"	1.0 m	0.07	1.0	0.01
"	9258	"	1.0 m	*0.001	*0.02	0.01
"	9259	"	1.0 m	0.07	0.7	0.04
TR23	9262	"	1.0 m	0.07	0.7	0.02
"	9263	"	1.0 m	0.75	0.7	0.04
"	9264	"	1.0 m	0.31	0.7	0.03
"	9265	"	1.0 m	0.07	0.7	0.01
"	9266	"	1.0 m	0.24	0.7	0.07
"	9267	"	1.5 m	0.07	0.7	0.01
"	9268	"	1.0 m	0.07	0.7	0.02
"	9269	"	0.6 m	0.55	0.7	0.1
"	9270	"	1.3 m	0.34	0.7	0.02
"	9271	"	1.0 m	0.38	0.7	0.01
"	9272	"	1.0 m	0.14	0.7	0.01
"	9273	"	1.3 m	0.34	0.7	0.01
"	9274	"	1.0 m	0.75	0.7	0.03
"	9275	"	1.1 m	0.99	0.7	0.06

NOTE: * denotes oz/t values

SECTION 9840N
Looking 010 deg
TODD CREEK PROPERTY
SOUTH ZONE

Proposed DDH SZ99-02
Historic DDH NTC 87-1 orthogonally projected 4 m N onto Section 9840N from Section 9832N

LEGEND

---Geology---

- Overburden
- T Talus
- 1 Hornblende-Feldspar Porphyry
- 2 Andesite
- 3 Andesite-Dacite Volcanic Breccia
- 4 Rhyolite
- 5 Mafic Dykes
- 6 Quartz-Chalcopyrite-Pyrite-Hematite Vein/Stringers/Stockwork
- FLBC Flow Breccia

---Alteration---

- a Quartz Pyrite
- b Quartz-Sericite +/- chlorite-pyrite
- c Chlorite-Sericite +/- quartz
- d Carbonate-Chlorite +/- sericite
- e Chlorite-Quartz

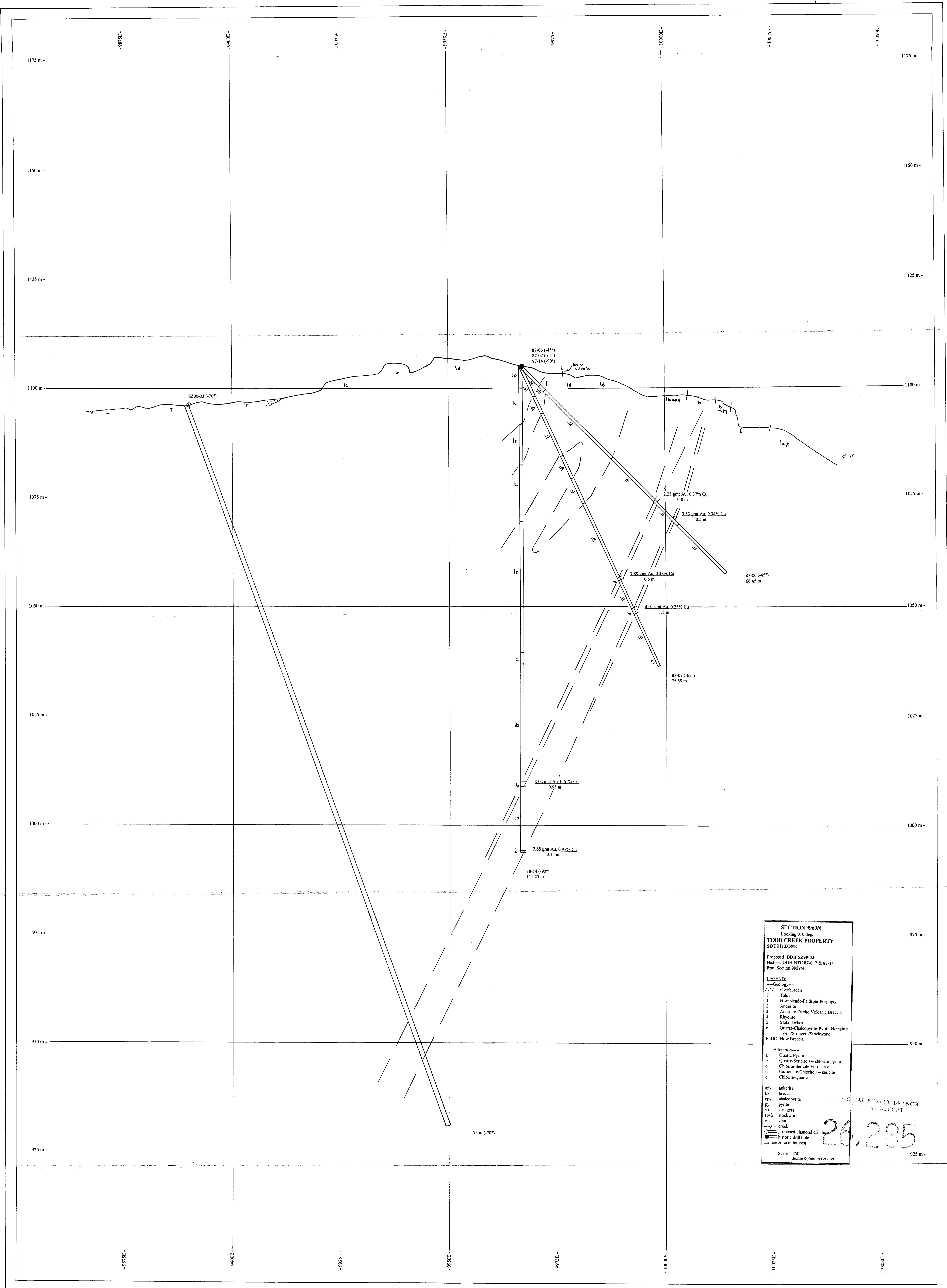
ank ankerite
bx breccia
cpy chalcopyrite
py pyrite
str stringers
stwk stockwork
v vein

---Other---

- creek
- proposed diamond drillhole
- historic diamond hole
- zone of interest

Scale 1:250
Geosc. Exploration Oct 1999

6,285



SECTION 9960N
 Looking 010 deg.
TODD CREEK PROPERTY
SOUTH ZONE
 Proposed DDH SZ00-03
 Historic DDH NTC 87-6, 7 & 88-14
 from Section 9959N

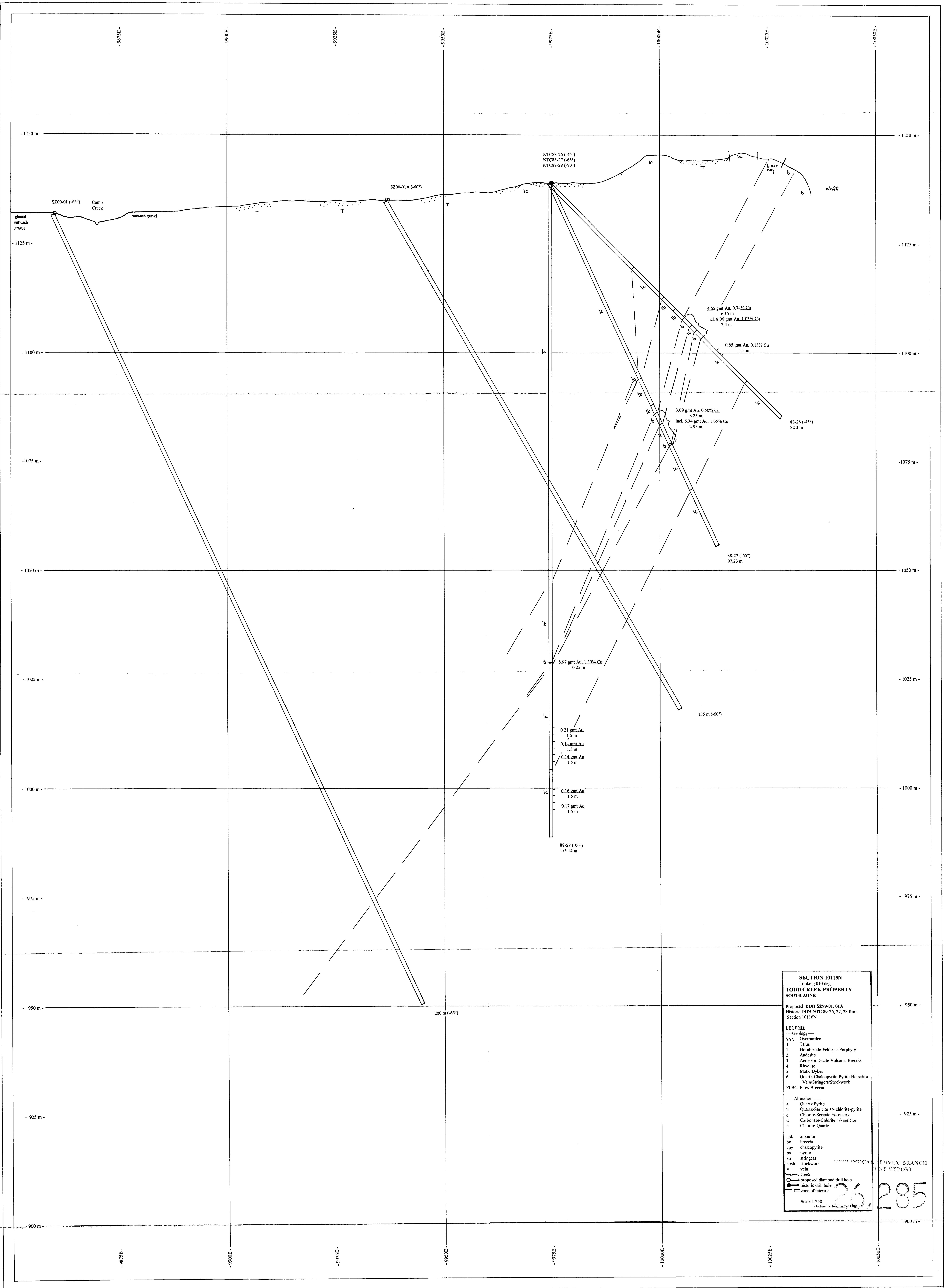
LEGEND:
 --- Geology ---
 Overburden
 T Talus
 1 Hornblende-Feldspar Porphyry
 2 Andesite
 3 Andesite-Dacite Volcanic Breccia
 4 Rhyolite
 5 Mafic Dykes
 6 Quartz-Chalcopyrite-Pyrite-Hematite
 Vain/Stringers/Stockwork
 FLBC Flow Breccia

--- Alteration ---
 a Quartz Pyrite
 b Quartz-Sericite +/- chlorite-pyrite
 c Chlorite-Sericite +/- quartz
 d Carbonate-Chlorite +/- sericite
 e Chlorite-Quartz

ank ankerite
 bx breccia
 cpy chalcopyrite
 py pyrite
 str stringers
 stwk stockwork
 v vein
 ~ creek
 O proposed diamond drill hole
 ● historic drill hole
 = zone of interest

Scale 1:250
 Geotone Exploration Oct 1999

26,285



SECTION 1015N
 Looking 010 deg
TODD CREEK PROPERTY
 SOUTH ZONE
 Proposed DDH SZ99-01, 01A
 Historic DDH NTC 89-26, 27, 28 from
 Section 10116N

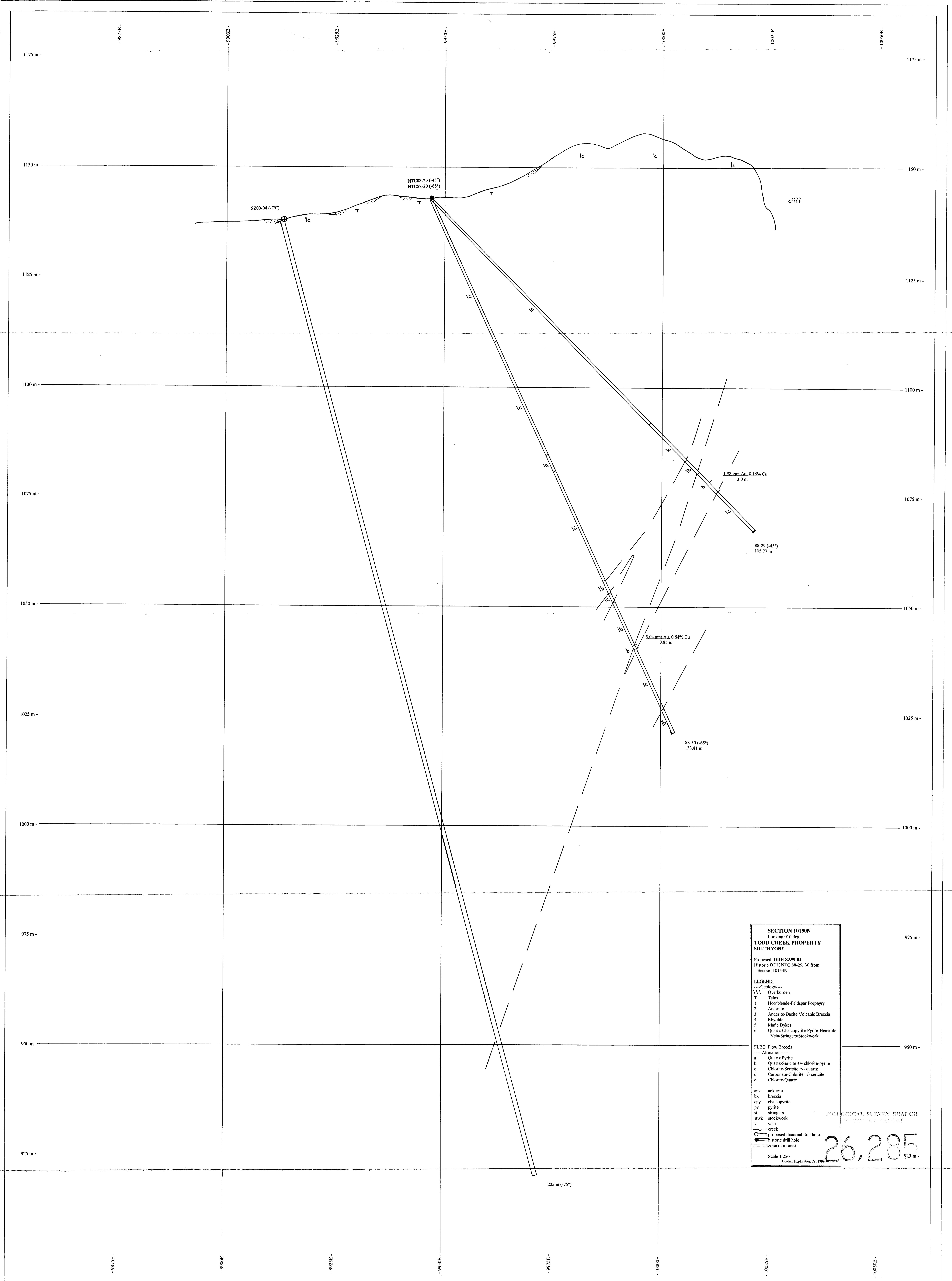
LEGEND
 --- Geology ---
 T, T' Overburden
 T Talus
 1 Hornblende-Feldspar Porphyry
 2 Andesite
 3 Andesite-Dacite Volcanic Breccia
 4 Rhyolite
 5 Mafic Dykes
 6 Quartz-Chalcopyrite-Pyrite-Hematite
 Vein/Stringers/Stockwork
 FLBC Flow Breccia

--- Alteration ---
 a Quartz Pyrite
 b Quartz-Sericite +/- chlorite-pyrite
 c Chlorite-Sericite +/- quartz
 d Carbonate-Chlorite +/- sericite
 e Chlorite-Quartz

ank ankerite
 bx breccia
 cpy chalcopyrite
 py pyrite
 str stringers
 stwk stockwork
 v vein
 creek creek
 diamond drill hole
 historic drill hole
 zone of interest

Scale 1:250
 Geologic Interpretation Oct 1998

GEOLOGICAL SURVEY BRANCH
 REPORT
 26, 285



SECTION 10150N
 Looking 010 deg.
TODD CREEK PROPERTY
SOUTH ZONE
 Proposed DDH SZ99-04
 Historic DDH NTC 88-29, 30 from
 Section 10154N

LEGEND:
 ---Geology---
 +--+ Overburden
 T Tals
 1 Hornblende-Feldspar Porphyry
 2 Andesite
 3 Andesite-Dacite Volcanic Breccia
 4 Rhyolite
 5 Mafic Dykes
 6 Quartz-Chalcopyrite-Pyrite-Hematite
 Vein/Stringers/Stockwork

FLBC Flow Breccia
 ---Alteration---
 a Quartz-Pyrite
 b Quartz-Sericite +/- chlorite-pyrite
 c Chlorite-Sericite +/- quartz
 d Carbonate-Chlorite +/- sericite
 e Chlorite-Quartz

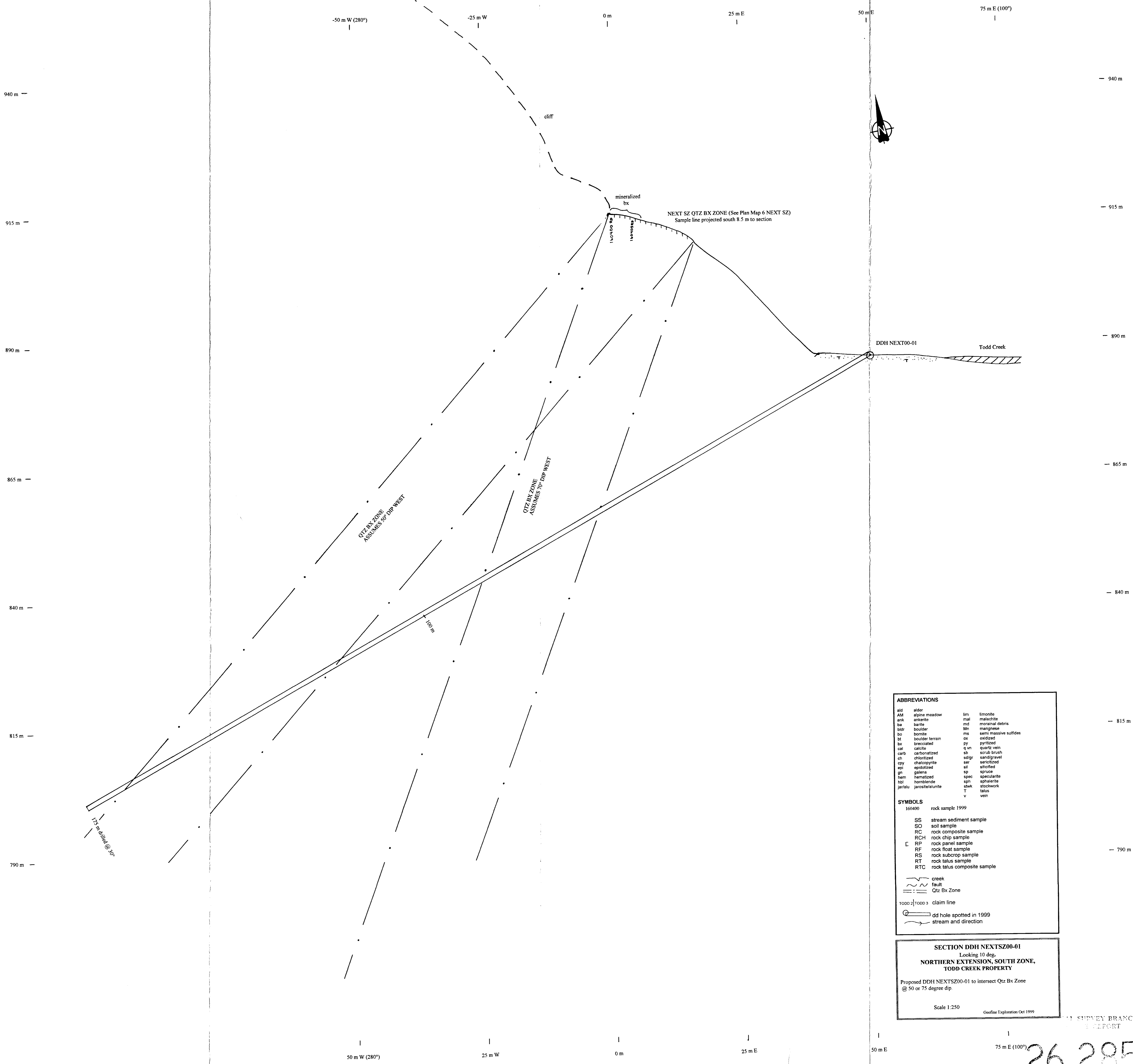
ank ankerite
 bx breccia
 cpy chalcopyrite
 py pyrite
 str stringers
 stwk stockwork
 v vein
 creek creek

○ proposed diamond drill hole
 ● historic drill hole
 --- zone of interest

Scale 1:250
 Geologic Exploration Oct 1999

GEOLOGICAL SURVEY BRANCH
 26,285

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ABBREVIATIONS

ald	alder	lim	limonite
AM	alpine meadow	mal	malachite
ank	ankerite	md	morainal debris
ba	barite	Mn	manganese
blbr	boulder	ms	semi massive sulfides
bc	bonnie	ox	oxidized
bt	boulder terrain	py	pyritized
bx	brecciated	qtz	quartz vein
cal	calcite	sb	scrub brush
carb	carbonatized	sdgr	sand/gravel
ch	chloritized	ser	sericitized
cpy	chalcopyrite	sil	silicified
epi	epidotized	sp	spruce
gn	galena	spec	specularite
hem	hematized	sph	sphalerite
hol	holmblende	stwk	stockwork
jafalu	jarosite/autunite	T	talus
		v	vein

SYMBOLS

164400	rock sample 1999
SS	stream sediment sample
SO	soil sample
RC	rock composite sample
RCH	rock chip sample
RP	rock panel sample
RF	rock float sample
RS	rock subcrop sample
RT	rock talus sample
RTC	rock talus composite sample
	creek
	fault
	Qtz Bx Zone
	claim line
	dd hole spotted in 1999
	stream and direction

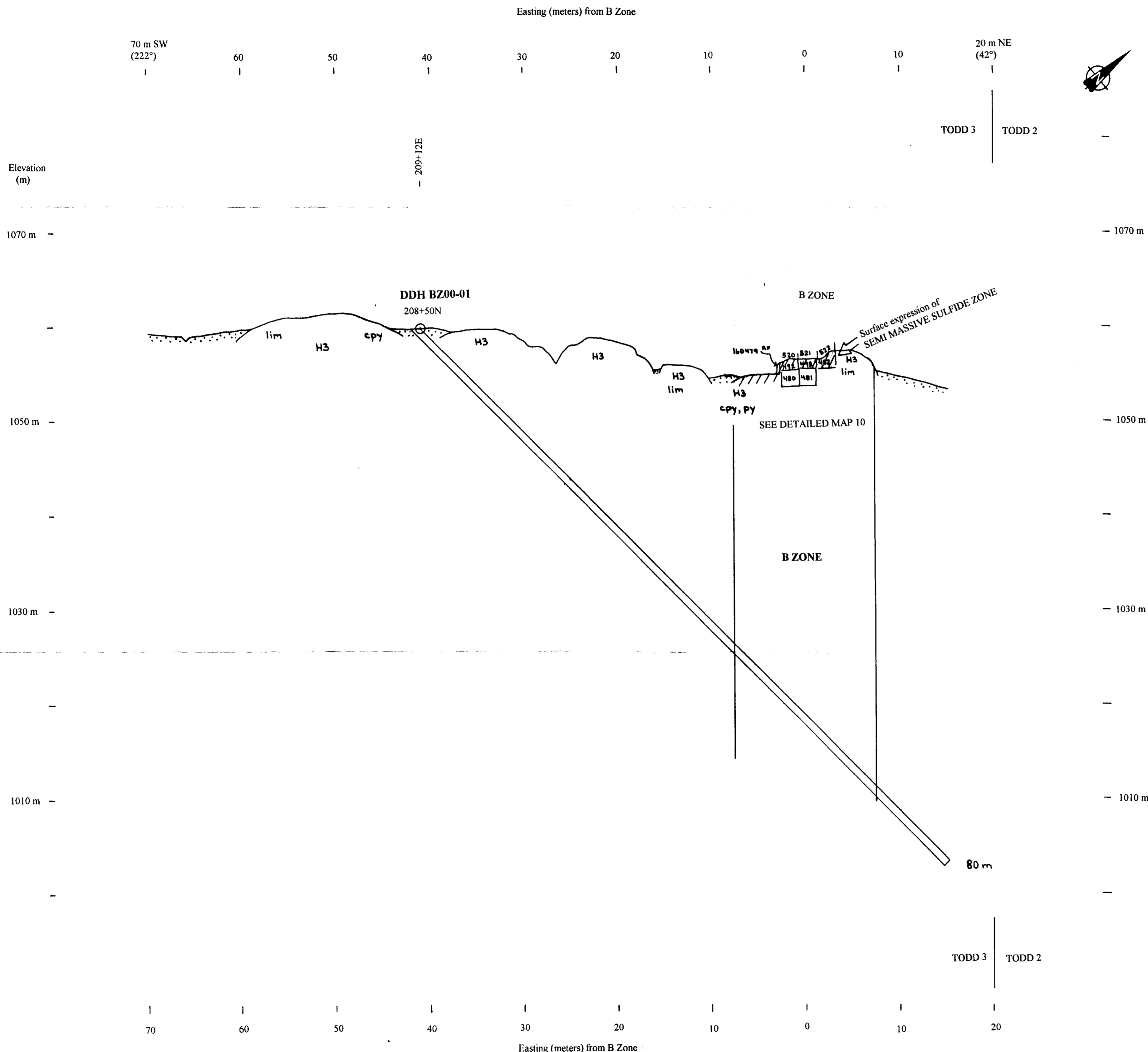
SECTION DDH NEXTSZ00-01
 Looking 10 deg.
**NORTHERN EXTENSION, SOUTH ZONE,
 TODD CREEK PROPERTY**

Proposed DDH NEXTSZ00-01 to intersect Qtz Bx Zone
 @ 50 or 75 degree dip

Scale 1:250
 Geofine Exploration Oct 1999

26,285

SHURVEY BRANCH
 CLIPPORT

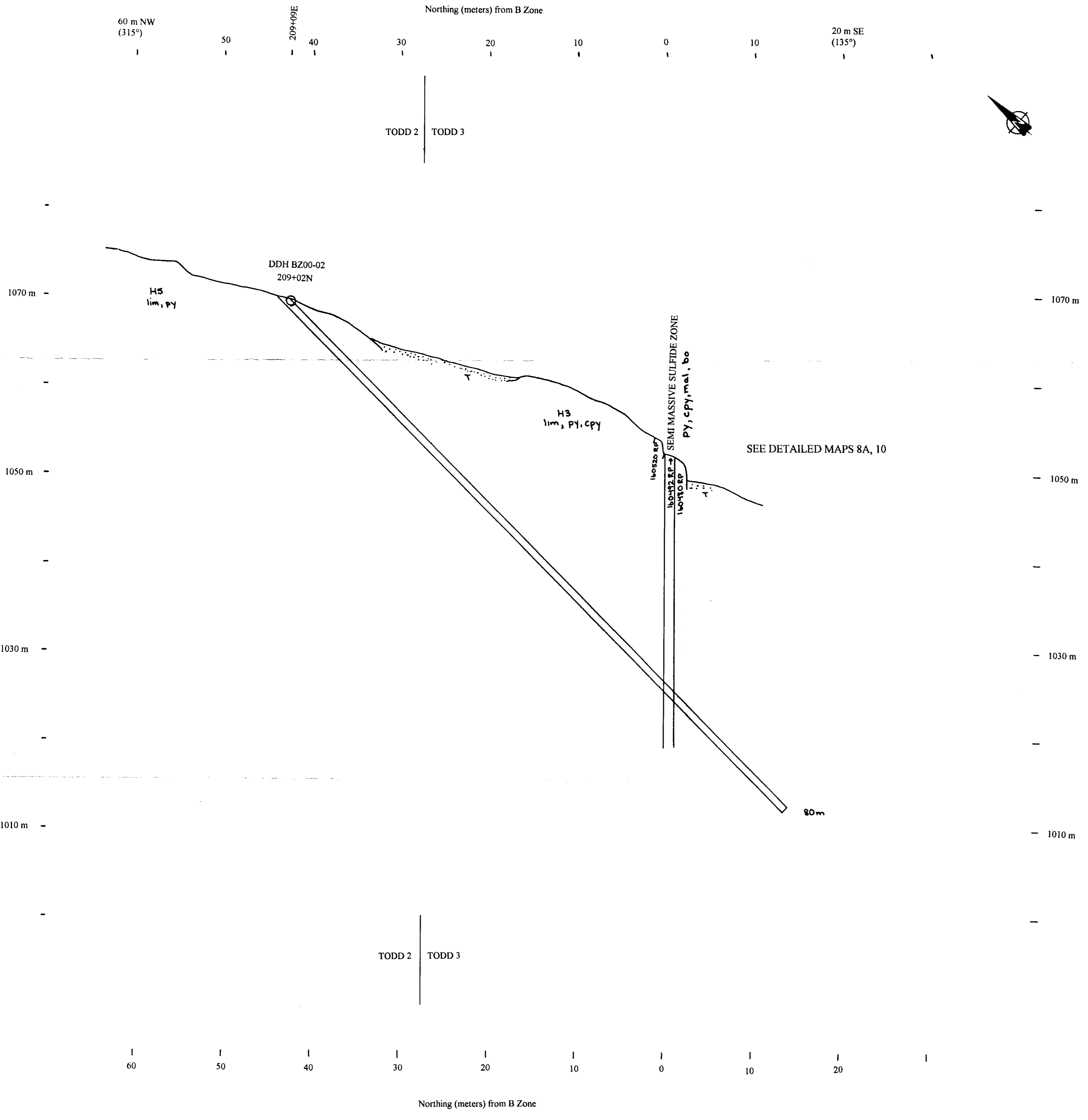


LEGEND	
ROCK TYPES	
Q	thick drift, coluvium, alluvium, till
MIDDLE (?) AND UPPER JURASSIC - BOWSER LAKE GROUP	
B1	silty mudstone lithofacies: bioturbated silty mudstone with regularly interbedded, Fe-carbonate cemented fine grained sandstone
B2	arkosic volcanic litharenite turbidite lithofacies: thin and medium bedded, fine to medium grained, poorly sorted arkosic litharenite with interbedded silty mudstone
B3	pyritic silty mudstone lithofacies: pyritic, siliceous, tuffaceous silty mudstone, fine to medium grained lithic arkose
B4	undifferentiated Bowser Lake Sediments
HAZELTON GROUP - SALMON RIVER FORMATION	
S1	undifferentiated sediments (shale, mudstone, dust, limestone, conglomerate, tuffaceous sediments)
S2	undifferentiated volcanics (basalt, pillowed basalt, volcanic breccia)
HAZELTON GROUP - LOWER AND MIDDLE JURASSIC	
H1	ferrocrite
H2	crystal tuff
H3	crystal tuff breccia, agglomerate
H4	ash tuff, ash tuff breccia, agglomerate
H5	undifferentiated pyroclastic rocks: tuff, breccia, agglomerate
H6	felsic volcanic rocks (rhyolite)
H7	intermediate volcanic rocks (dacite)
H8	mafic volcanic rocks (basalt, pillowed basalt, andesite)
H9	undifferentiated, strongly altered rock
INTRUSIVE ROCKS	
R1	felsic dykes
R2	hornblende diorite porphyry
R3	quartz feldspar porphyry
R4	mafic dyke

ABBREVIATIONS			
ald	alder	lim	limonite
AM	alpine meadow	mal	malachite
ank	ankerite	md	morainal debris
ba	barite	Mn	manganese
bldr	boulder	ms	semi massive sulfides
bo	bornite	ox	oxidized
bt	boulder terrain	py	pyritized
bx	brecciated	q vn	quartz vein
cal	calcite	sb	scrub brush
carb	carbonatized	sd/gr	sand/gravel
ch	chloritized	ser	sericitized
cpy	chalcocopyrite	sil	silicified
epi	epidotized	sp	spruce
gn	galena	spec	specularite
hem	hematized	sph	sphalerite
hbl	hornblende	stwk	stockwork
jar/alu	jarosite/alunite	T	talus
		v	vain

SYMBOLS	
[160480 481	1999 rock sample & location
SS	stream sediment sample
SO	soil sample
RC	rock composite sample
RCH	rock chip sample
[RP	rock panel sample
RF	rock float sample
RS	rock subcrop sample
RT	rock talus sample
RTC	rock talus composite sample
~	interpreted fault
TODD 2 TODD 3	claim line
~	creek
G	dd hole spotted in 1999
→	stream and direction
////	SMS Zone

SECTION DDH BZ00-01
B ZONE, NORTH GRID
 Looking 319 deg. SURVEY BRANCH
TODD CREEK PROPERTY REPORT
 Proposed DDH BZ00-01 to intersect Vertical Projection of B Zone
 Scale 1:250
 26,285
 Geofine Exploration, Oct 1999



LEGEND

ROCK TYPES

Q thick drift, coluvium, alluvium, till

MIDDLE (?) AND UPPER JURASSIC - BOWSER LAKE GROUP

B1 silty mudstone lithofacies: bioturbated silty mudstone with regularly interbedded, Fe-carbonate cemented fine grained sandstone

B2 arkosic volcanic litharenite turbidite lithofacies: thin and medium bedded, fine to medium grained, poorly sorted arkosic litharenite with interbedded silty mudstone

B3 pyritic silty mudstone lithofacies: pyritic, siliceous, tuffaceous silty mudstone, fine to medium grained lithic arkose

B4 undifferentiated Bowser Lake Sediments

HAZELTON GROUP - SALMON RIVER FORMATION

S1 undifferentiated sediments (shale, mudstone, dust, limestone, conglomerate, tuffaceous sediments)

S2 undifferentiated volcanics (basalt, pillowed basalt, volcanic breccia)

HAZELTON GROUP - LOWER AND MIDDLE JURASSIC

H1 ferrocrete

H2 crystal tuff

H3 crystal tuff breccia, agglomerate

H4 ash tuff, ash tuff breccia, agglomerate

H5 undifferentiated pyroclastic rocks: tuff, breccia, agglomerate

H6 felsic volcanic rocks (rhyolite)

H7 intermediate volcanic rocks (dacite)

H8 mafic volcanic rocks (basalt, pillowed basalt, andesite)

H9 undifferentiated, strongly altered rock

INTRUSIVE ROCKS

R1 felsic dykes

R2 hornblende diorite porphyry

R3 quartz feldspar porphyry

R4 mafic dyke

ABBREVIATIONS

ald	alder	lim	limonite
AM	alpine meadow	mal	malachite
ank	ankerite	md	morainal debris
ba	barite	Mn	manganese
bldr	boulder	ms	semi massive sulfides
bo	bornite	ox	oxidized
bt	boulder terrain	py	pyritized
bx	brecciated	qv	quartz vein
cal	calcite	sb	scrub brush
carb	carbonatized	sd/gr	sand/gravel
ch	chloritized	ser	sericitized
cpy	chalcopyrite	sil	silicified
epi	epidotized	sp	spruce
gn	galena	spec	specularite
hem	hematized	sph	sphalerite
hbl	hornblende	svk	stockwork
jar/alu	jarosite/alunite	T	talus
		v	vein

SYMBOLS

[160480 1999 rock sample & location

[481

SS stream sediment sample

SO soil sample

RC rock composite sample

RCH rock chip sample

RP rock panel sample

RF rock float sample

RS rock subcrop sample

RT rock talus sample

RTC rock talus composite sample

~ ~ interpreted fault

TODD 2 | TODD 3 claim line

~ ~ ~ creek

⊙ dd hole spotted in 1999

→ stream and direction

**SECTION DDH BZ00-02
SEMI MASSIVE SULFIDE ZONE,
B ZONE, NORTH GRID
Looking 49 deg.
TODD CREEK PROPERTY**

Proposed DDH BZ00-02 to intersect Semi Massive Sulfide Zone

Scale 1:250

Geofine Exploration Oct 1999

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Elevation (m)

1050 m

990 m

970 m

950 m

930 m

910 m

10000N

10020N

10040N

10060N

10080N

10100N

10000N

10020N

10040N

10060N

10080N

10100N

TODD 4 TODD 3

TODD 4 TODD 3



DDH AN00-01 (-45°)

A ZONE Bx V
cpy, mal, py

samples projected from historic Noranda trench

SEE DETAILED MAP 9A

VERTICAL PROJECTION
OF A ZONE

100 m

LEGEND	
ROCK TYPES	
Q	thick drift, coluvium, alluvium, till
MIDDLE (?) AND UPPER JURASSIC - BOWSER LAKE GROUP	
B1	silty mudstone lithofacies: bioturbated silty mudstone with regularly interbedded, Fe-carbonate cemented fine grained sandstone
B2	arkosic volcanic litharenite turbidite lithofacies: thin and medium bedded, fine to medium grained, poorly sorted arkosic litharenite with interbedded silty mudstone
B3	pyritic silty mudstone lithofacies: pyritic, siliceous, tuffaceous silty mudstone, fine to medium grained lithic arkose
B4	undifferentiated Bowser Lake Sediments
HAZELTON GROUP - SALMON RIVER FORMATION	
S1	undifferentiated sediments (shale, mudstone, dust, limestone, conglomerate, tuffaceous sediments)
S2	undifferentiated volcanics (basalt, pillowed basalt, volcanic breccia)
HAZELTON GROUP - LOWER AND MIDDLE JURASSIC	
H1	ferrocrite
H2	crystal tuff
H3	crystal tuff breccia, agglomerate
H4	ash tuff, ash tuff breccia, agglomerate
H5	undifferentiated pyroclastic rocks: tuff, breccia, agglomerate
H6	felsic volcanic rocks (rhyolite)
H7	intermediate volcanic rocks (dacite)
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INTRUSIVE ROCKS	
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ABBREVIATIONS			
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ank	ankerite	md	morainal debris
ba	barite	Mn	manganese
bldr	boulder	ms	semi massive sulfides
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gn	galena	spec	specularite
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hbl	hornblende	stwk	stockwork
jar/alu	jarosite/alunite	T	talus
		v	vein

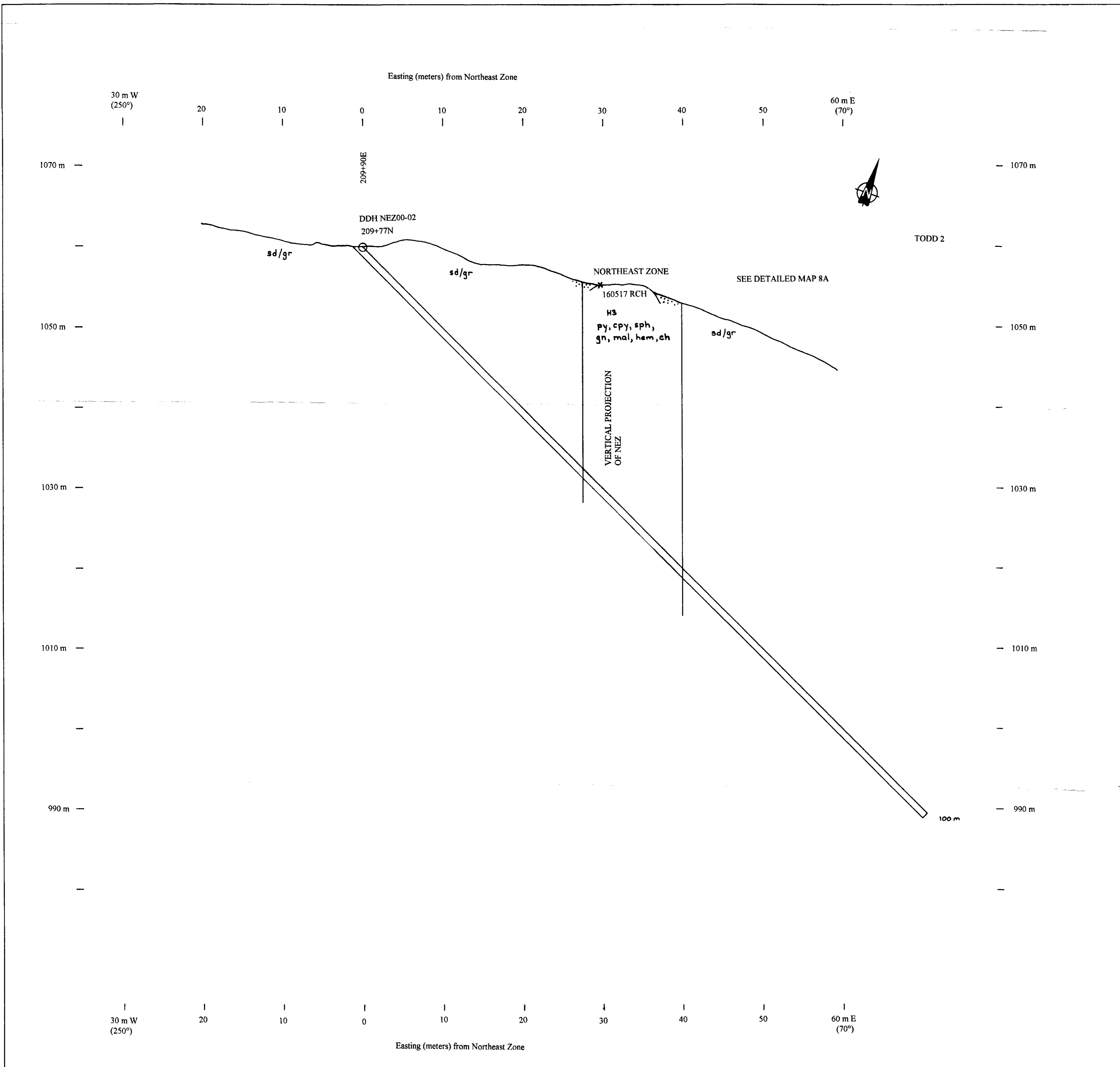
SYMBOLS	
[598647	historic rock sample & location
[160508	1999 rock sample & location
[509	
SS	stream sediment sample
SO	soil sample
RC	rock composite sample
[RCH	rock chip sample
[RP	rock panel sample
[RF	rock float sample
[RS	rock subcrop sample
[RT	rock talus sample
[RTC	rock talus composite sample
~ ~ ~	interpreted fault
--- ---	claim line
~ ~ ~	creek
Q	dd hole spotted in 1999
→	stream and direction

**A ZONE, NORTH GRID
SECTION 10097.5E**
Looking 315 deg. SURVEY BRANCH
TODD CREEK PROPERTY REPORT

Proposed DDH AN00-01 to intersect Vertical Projection of A Zone

Scale 1:250

26,285



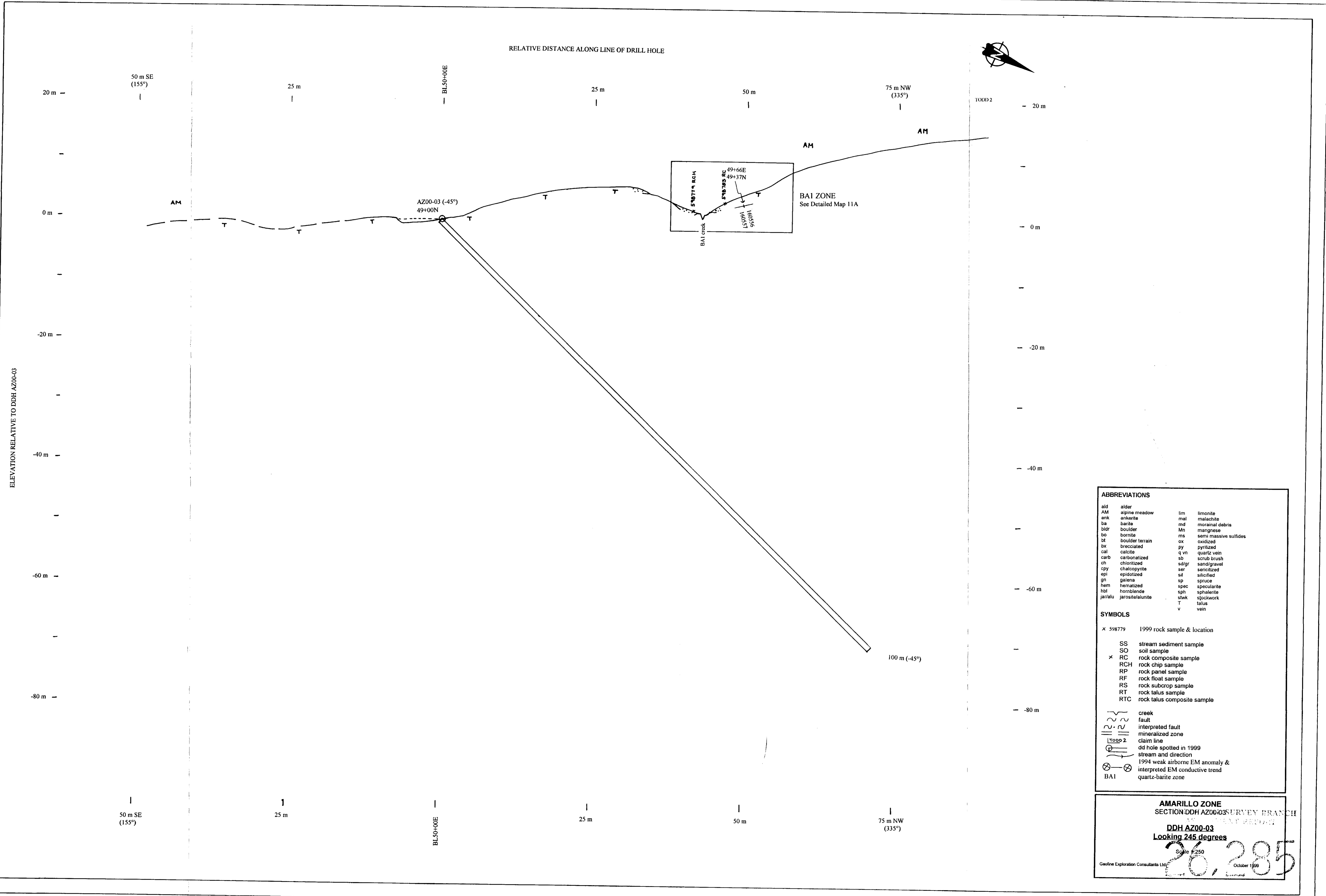
ROCK TYPES	
Q	thick drift, coluvium, alluvium, till
MIDDLE (?) AND UPPER JURASSIC - BOWSER LAKE GROUP	
B1	silty mudstone lithofacies: bioturbated silty mudstone with regularly interbedded, Fe-carbonate cemented fine grained sandstone
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ch	chloritized	ser	sericitized
cpy	chalcopyrite	sil	silicified
epi	epidolized	sp	spruce
gn	galena	spec	specularite
hem	hematized	sph	sphalerite
hbl	hornblende	stkw	stockwork
jar/alu	jarosite/alunite	T	talus
		v	vein

SYMBOLS	
x 160480	1999 rock sample & location
x 481	
SS	stream sediment sample
SO	soil sample
RC	rock composite sample
x RCH	rock chip sample
RP	rock panel sample
RF	rock float sample
RS	rock subcrop sample
RT	rock talus sample
RTC	rock talus composite sample
~ ~	interpreted fault
—	claim line
~ ~ ~	creek
dd	dd hole spotted in 1999
→	stream and direction

SECTION DDH NEZ00-01
NORTHEAST ZONE, NORTH GRID
 Looking 340 deg.
TODD CREEK PROPERTY
 Proposed DDH NEZ00-01 to intersect Vertical Projection of
 Northeast Zone
 Scale 1:250
 Geofine Exploration Oct 1999

26,285



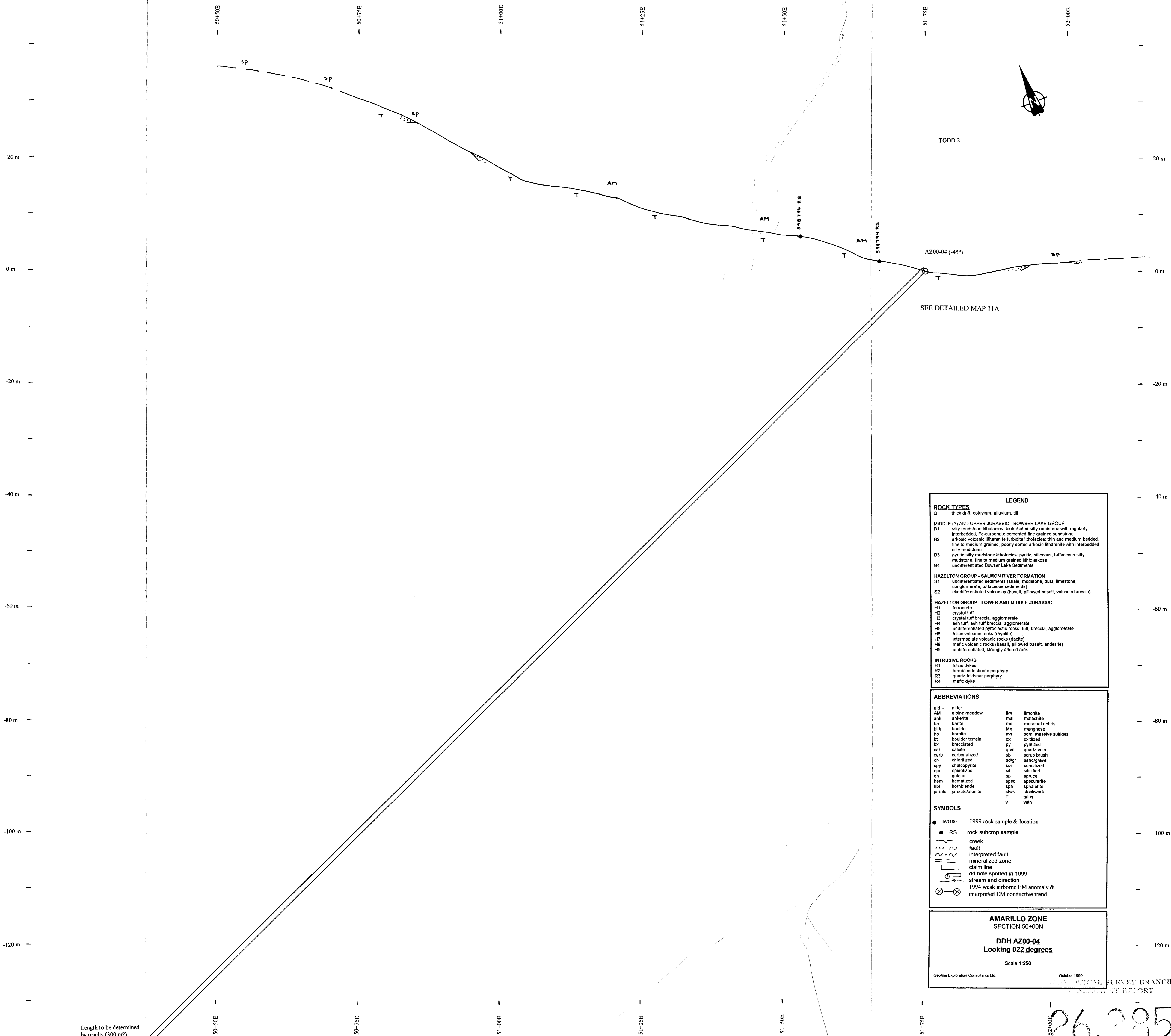
ABBREVIATIONS

ald	alder	lim	limonite
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ank	ankerite	md	morainal debris
ba	barite	Mn	manganese
bdr	boulder	ms	semi massive sulfides
bo	bornite	ox	oxidized
bt	boulder terrain	py	pyritized
bx	brecciated	q vn	quartz vein
cal	calcite	sb	scrub brush
carb	carbonalized	sd/gr	sand/gravel
ch	chloritized	ser	sericitized
cpy	chalcopyrite	sil	silicified
epi	epidolized	sp	spruce
gn	galena	spec	specularite
hem	hematized	sph	sphalerite
ht	hornblende	stwk	stockwork
jar/alu	jarosite/alunite	T	talus
		v	vein

SYMBOLS

- x 598779 1999 rock sample & location
- SS stream sediment sample
- SO soil sample
- x RC rock composite sample
- RCH rock chip sample
- RP rock panel sample
- RF rock float sample
- RS rock subcrop sample
- RT rock talus sample
- RTC rock talus composite sample
- ~ creek
- fault
- || mineralized zone
- || mineralized zone
- 10002 claim line
- ⊙ dd hole spotted in 1999
- stream and direction
- ⊗ 1994 weak airborne EM anomaly & interpreted EM conductive trend
- BA1 quartz-barite zone

AMARILLO ZONE
SECTION DDH AZ00-03 SURVEY BRANCH
DDH AZ00-03
Looking 245 degrees
Scale 1:250
26,285
October 1999
Geofine Exploration Consultants Ltd.



ROCK TYPES	
Q	thick drift, coluvium, alluvium, till
MIDDLE (?) AND UPPER JURASSIC - BOWSER LAKE GROUP	
B1	silty mudstone lithofacies: bioturbated silty mudstone with regularly interbedded, Fe-carbonate cemented fine grained sandstone
B2	arkosic volcanic litharenite turbidite lithofacies: thin and medium bedded, fine to medium grained, poorly sorted arkosic litharenite with interbedded silty mudstone
B3	pyritic silty mudstone lithofacies: pyritic, siliceous, tuffaceous silty mudstone, fine to medium grained lithic arkose
B4	undifferentiated Bowser Lake Sediments
HAZELTON GROUP - SALMON RIVER FORMATION	
S1	undifferentiated sediments (shale, mudstone, dust, limestone, conglomerate, tuffaceous sediments)
S2	undifferentiated volcanics (basalt, pillowed basalt, volcanic breccia)
HAZELTON GROUP - LOWER AND MIDDLE JURASSIC	
H1	ferrocorte
H2	crystal tuff
H3	crystal tuff breccia, agglomerate
H4	ash tuff, ash tuff breccia, agglomerate
H5	undifferentiated pyroclastic rocks: tuff, breccia, agglomerate
H6	felsic volcanic rocks (rhyolite)
H7	intermediate volcanic rocks (dacite)
H8	mafic volcanic rocks (basalt, pillowed basalt, andesite)
H9	undifferentiated, strongly altered rock
INTRUSIVE ROCKS	
R1	felsic dikes
R2	hornblende diorite porphyry
R3	quartz feldspar porphyry
R4	mafic dyke

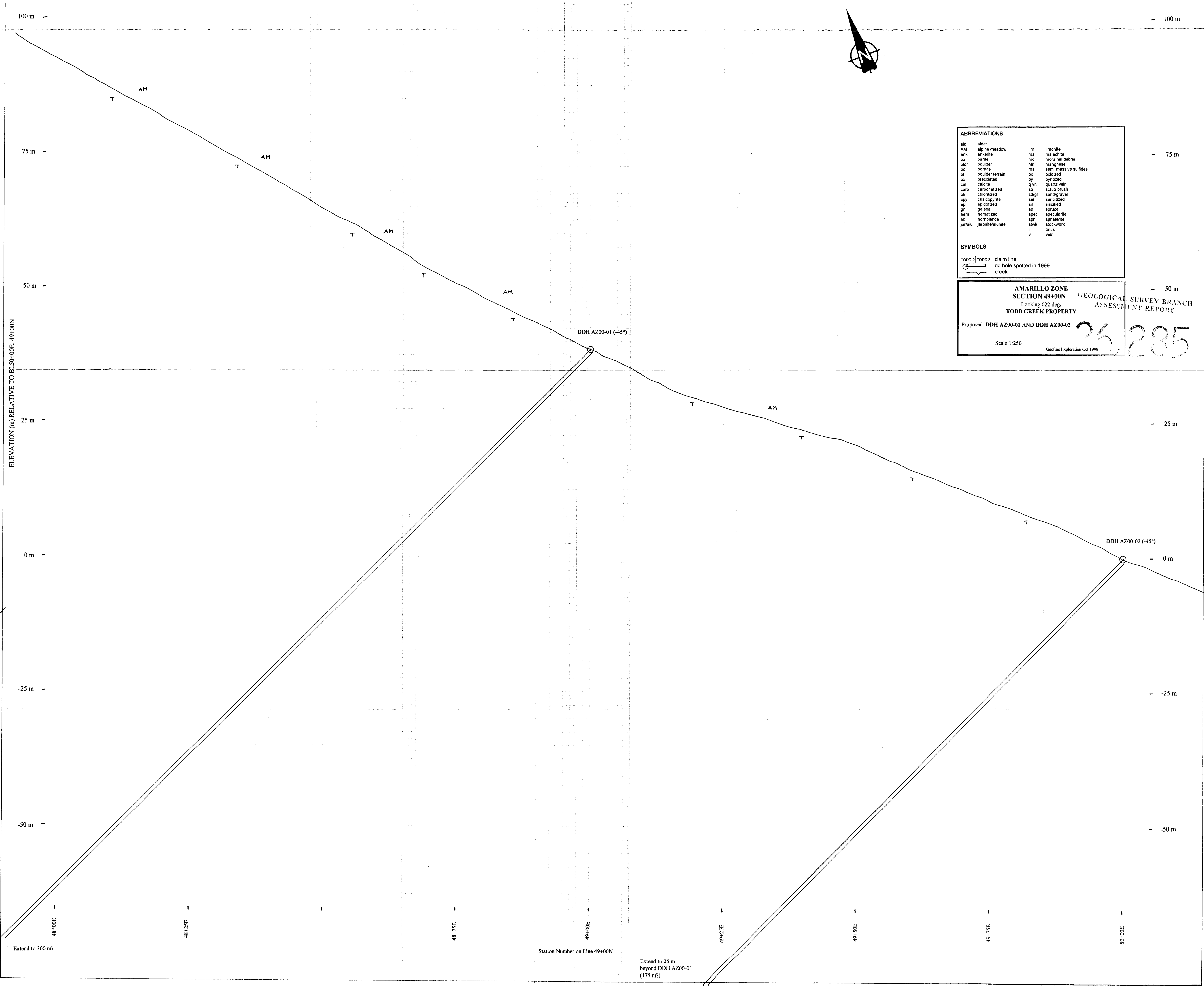
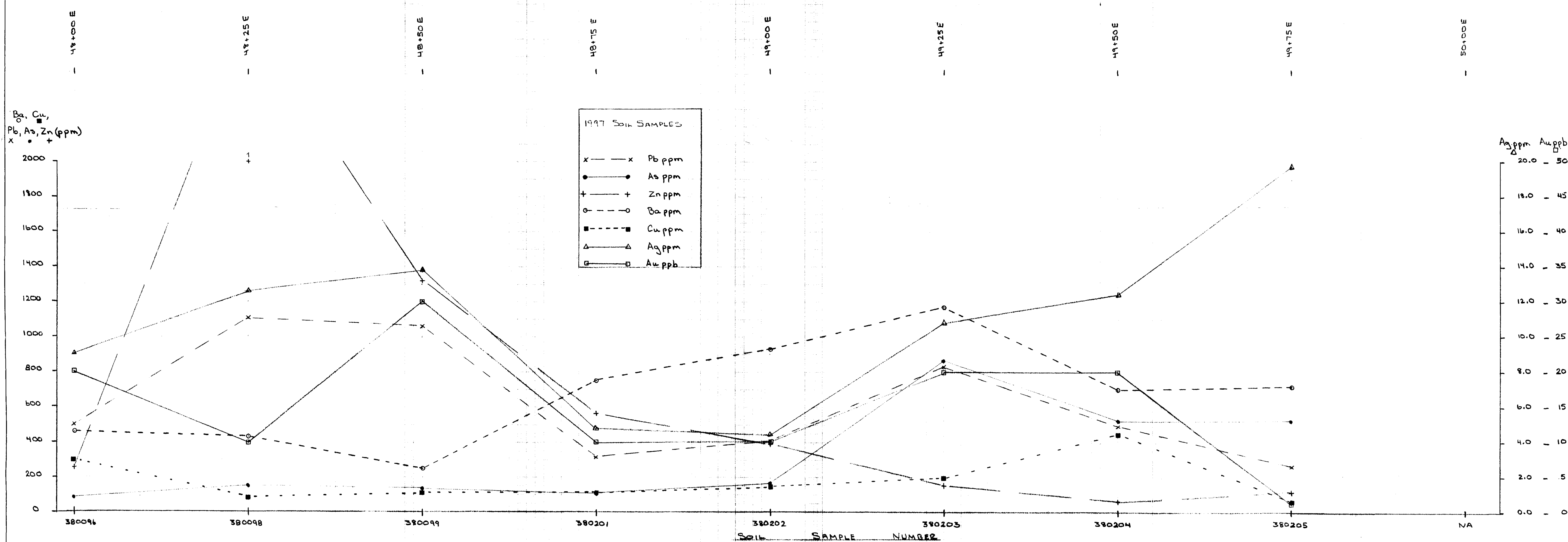
ABBREVIATIONS			
ald	alder	lim	limonite
AM	alpine meadow	mal	malachite
ank	ankerite	md	morainal debris
ba	barite	Mn	manganese
bldr	boulder	ms	semi massive sulfides
bo	borite	ox	oxidized
bt	boulder terrain	py	pyritized
bx	brecciated	qv	quartz vein
cal	calcite	sb	scrub brush
carb	carbonatized	sd/gr	sand/gravel
ch	chloritized	ser	sericitized
cpy	chalcopyrite	sil	silicified
ept	epidotized	sp	spruce
gn	galena	spec	sphaularite
hem	hematized	sph	sphalerite
hbl	hornblende	stwk	stockwork
jar/alu	jarosite/alunite	T	talus
		v	vein

SYMBOLS	
●	160480 1999 rock sample & location
●	RS rock subcrop sample
~	creek
~	fault
~	interpreted fault
	mineralized zone
	claim line
○	dd hole spotted in 1999
→	stream and direction
⊗	1994 weak airborne EM anomaly & interpreted EM conductive trend

AMARILLO ZONE
SECTION 50+00N
DDH AZ00-04
Looking 022 degrees
Scale 1:250
Geofine Exploration Consultants Ltd. October 1999
GEOLOGICAL SURVEY BRANCH
TECHNICAL REPORT

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LINE 49+00N



ABBREVIATIONS

ald	alder	lim	limonite
AM	alpine meadow	mal	malachite
ank	ankerite	md	moraine debris
ba	barite	Mn	manganese
bldr	boulder	ms	semi-massive sulfides
bo	bonite	ox	oxidized
bt	boulder terrain	py	pyritized
bx	brecciated	qtz	quartz vein
cal	calcite	q vn	quartz vein
carb	carbonatized	sb	scoria brush
ch	chlorite	sdgr	sand/gravel
cpy	chalcopyrite	scr	scorified
epi	epidote	sl	sluffed
gn	galena	sp	spice
hem	hematite	spac	spiculate
hbl	hornblende	sph	sphalerite
jaraku	jarosite/auriferite	stkw	stockwork
		T	talus
		v	vein

SYMBOLS

YODO 2 TODD 3 claim line

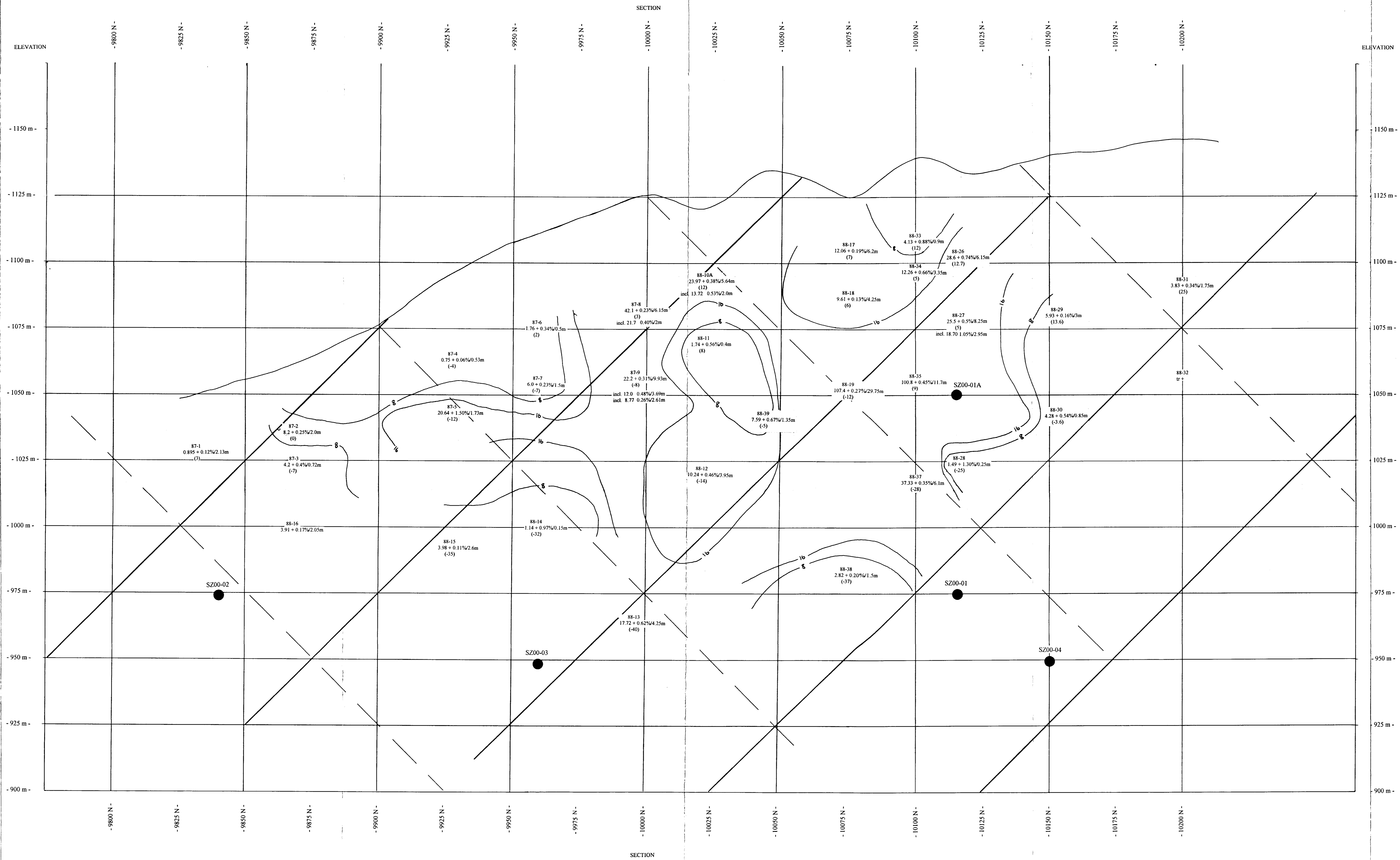
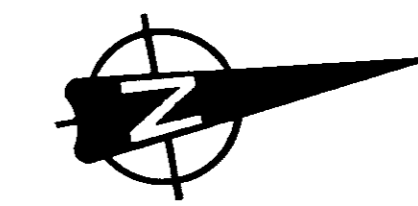
○ old hole spotted in 1999

— creek

AMARILLO ZONE
SECTION 49+00N
 Looking 022 deg.
TODD CREEK PROPERTY
 Proposed DDH AZ00-01 AND DDH AZ00-02
 Scale 1:250
 Geological Exploration Oct 1999

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

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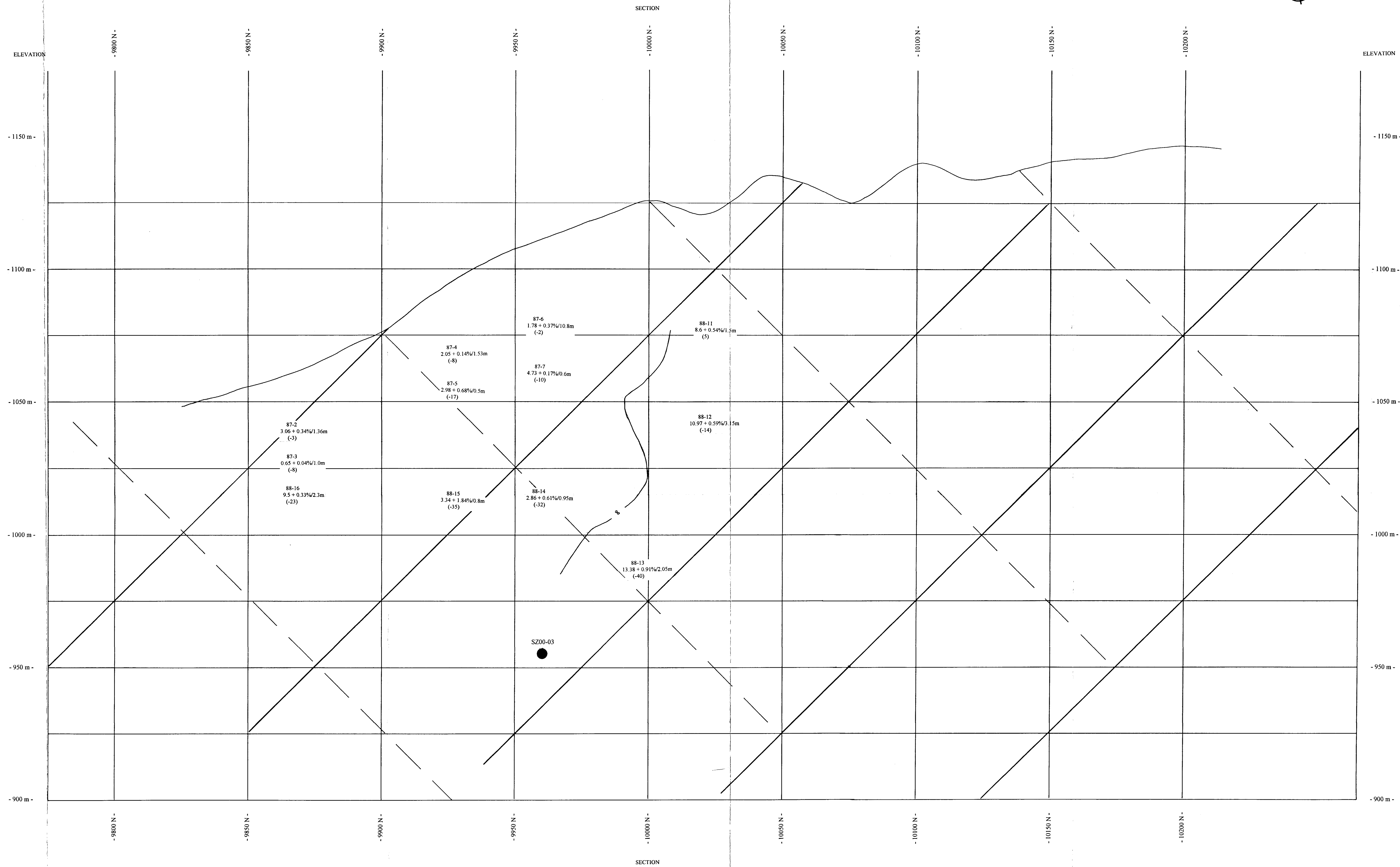


VERTICAL LONGITUDINAL SECTION I
 Projected to BL 10000E
 Looking 280 degrees
 TODD CREEK PROPERTY,
 SOUTH ZONE DEPOSIT

+ Projected intercept point
 88-30 Diamond drill hole number (Noranda)
 4.28 + 0.54% / 0.85m GMP Au + Cu/score length
 (-5) Distance projected to section from west
 (5) Distance projected to section from east
 16 16 gram meter product gold contour
 SZ00-01 Proposed Y2K confirmation & stepout
 drill holes
 ————— Interpreted main South plunge axis of
 mineralized shoot
 - - - - - Interpreted north (back) plunge axis of
 mineralized shoot
 ————— Interpreted north (back) plunge axis of
 mineralized shoot

Scale 1:500
 GEOLOGICAL SURVEY BRANCH
 TECHNICAL REPORT

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VERTICAL LONGITUDINAL SECTION 2
 Projected to BL 10000E
 Looking 280 degrees
 TODD CREEK PROPERTY,
 SOUTH ZONE DEPOSIT

+ Projected intercept point
 88-30 Diamond drill hole number (Noranda)
 4.28 + 0.54%w/0.95m GMP Au + Cu% core length
 (-5) Distance projected to section from west
 (5) Distance projected to section from east
 16 16 gram meter product gold contour
 SZ00-01 Proposed Y2K confirmation & stepout
 drill holes
 ————— Interpreted main South plunge axis of
 mineralized shoot
 - - - - - Interpreted south (back) plunge axis of
 mineralized shoot

Scale 1:500
 Geological Survey Branch
 Environment Permit
 Geotek Explorations Consultants Ltd. Oct 1999

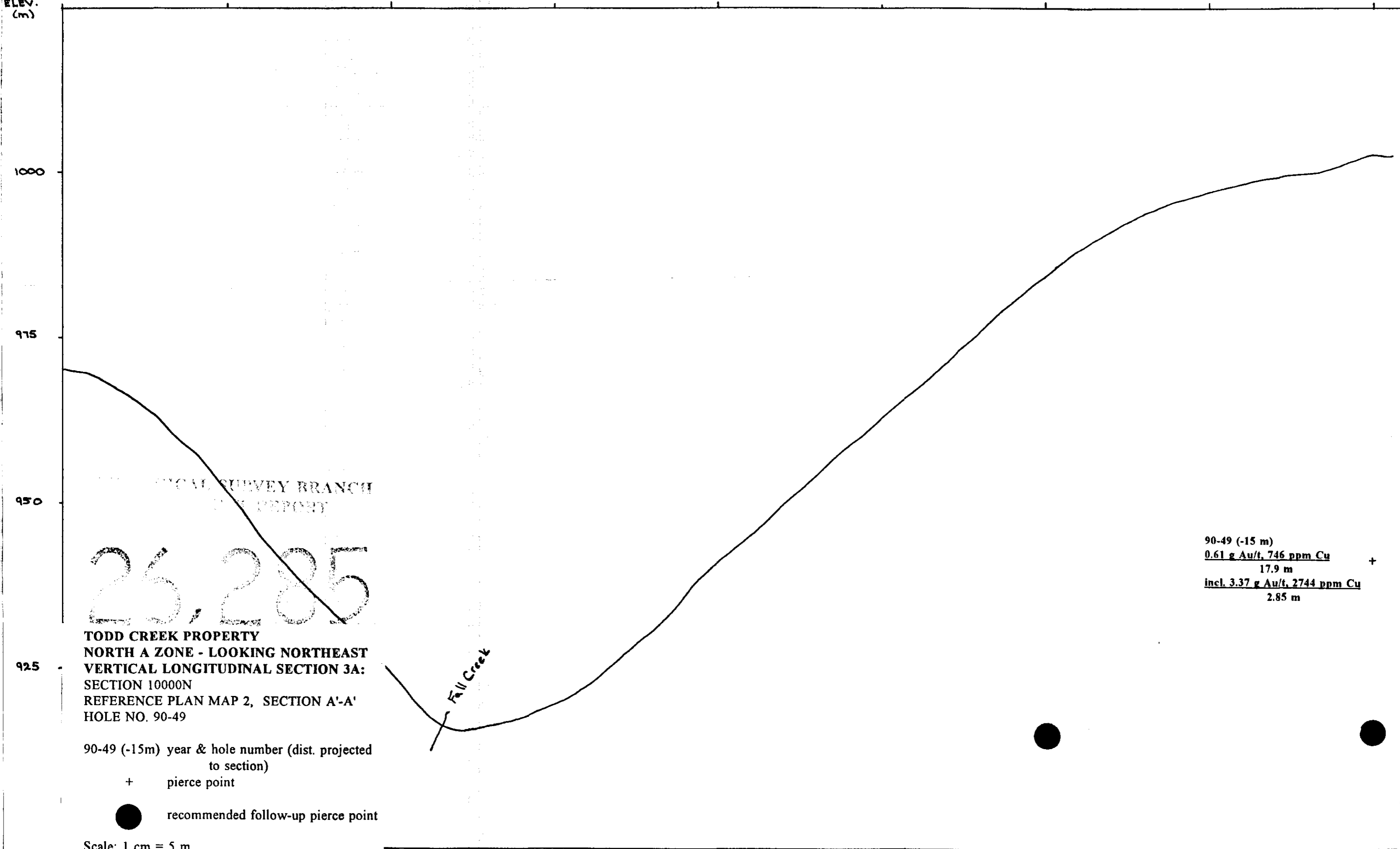
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APPENDIX C:

**VERTICAL LONGITUDINAL
SECTIONS**

ELEV. (m) 10125 E 10150 E 10175 E 10200 E 10225 E 10250 E 10275 E 10300 E 10325 E

CROSS SECTIONS



MINERAL SURVEY BRANCH
REPORT

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TODD CREEK PROPERTY
NORTH A ZONE - LOOKING NORTHEAST
VERTICAL LONGITUDINAL SECTION 3A:
 SECTION 10000N
 REFERENCE PLAN MAP 2, SECTION A'-A'
 HOLE NO. 90-49

90-49 (-15 m)
0.61 g Au/t, 746 ppm Cu +
 17.9 m
incl. 3.37 g Au/t, 2744 ppm Cu
 2.85 m

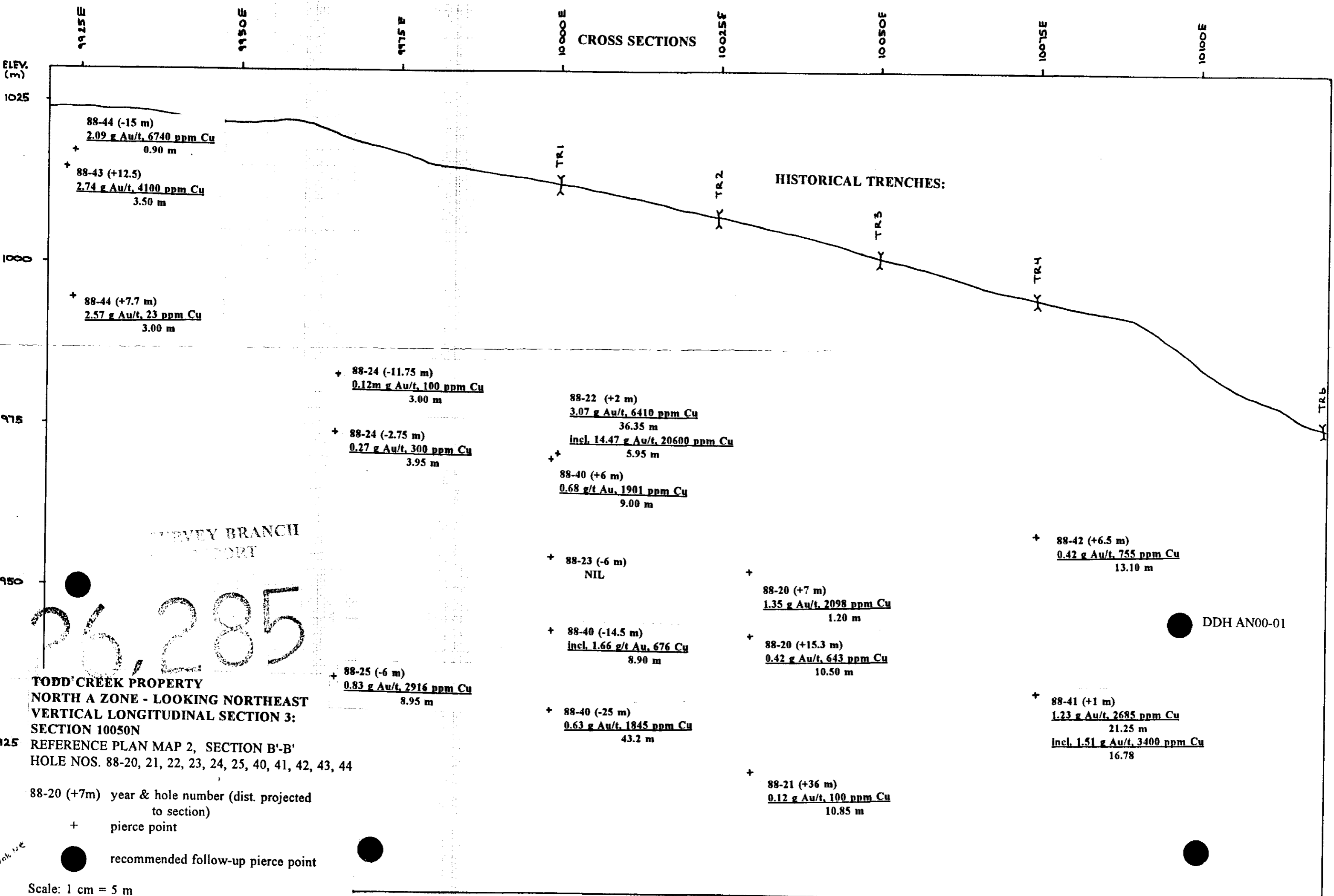
90-49 (-15m) year & hole number (dist. projected to section)

+ pierce point

● recommended follow-up pierce point

Scale: 1 cm = 5 m

CROSS SECTIONS



ELEV. (m)

1025

1000

975

950

925

9925E

9950E

9975E

10000E

10025E

10050E

10075E

10100E

HISTORICAL TRENCHES:

TR1

TR2

TR3

TR4

TR5

88-44 (-15 m)
2.09 g Au/t, 6740 ppm Cu
+ 0.90 m

88-43 (+12.5)
2.74 g Au/t, 4100 ppm Cu
+ 3.50 m

88-44 (+7.7 m)
2.57 g Au/t, 23 ppm Cu
+ 3.00 m

88-24 (-11.75 m)
0.12m g Au/t, 100 ppm Cu
+ 3.00 m

88-24 (-2.75 m)
0.27 g Au/t, 300 ppm Cu
+ 3.95 m

88-22 (+2 m)
3.07 g Au/t, 6410 ppm Cu
36.35 m
incl. 14.47 g Au/t, 20600 ppm Cu
+ 5.95 m

88-40 (+6 m)
0.68 g/t Au, 1901 ppm Cu
+ 9.00 m

88-23 (-6 m)
NIL

88-20 (+7 m)
1.35 g Au/t, 2098 ppm Cu
+ 1.20 m

88-40 (-14.5 m)
incl. 1.66 g/t Au, 676 Cu
+ 8.90 m

88-20 (+15.3 m)
0.42 g Au/t, 643 ppm Cu
+ 10.50 m

88-25 (-6 m)
0.83 g Au/t, 2916 ppm Cu
+ 8.95 m

88-40 (-25 m)
0.63 g Au/t, 1845 ppm Cu
+ 43.2 m

88-42 (+6.5 m)
0.42 g Au/t, 755 ppm Cu
+ 13.10 m

88-41 (+1 m)
1.23 g Au/t, 2685 ppm Cu
21.25 m
incl. 1.51 g Au/t, 3400 ppm Cu
+ 16.78

88-21 (+36 m)
0.12 g Au/t, 100 ppm Cu
+ 10.85 m

BRIDGE BRANCH

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TODD CREEK PROPERTY
NORTH A ZONE - LOOKING NORTHEAST
VERTICAL LONGITUDINAL SECTION 3:
SECTION 10050N

REFERENCE PLAN MAP 2, SECTION B'-B'
HOLE NOS. 88-20, 21, 22, 23, 24, 25, 40, 41, 42, 43, 44

88-20 (+7m) year & hole number (dist. projected to section)

+ pierce point

● recommended follow-up pierce point

● DDH AN00-01

Scale: 1 cm = 5 m