ARIS SUMMARY SHEET

District Geologist, Smithers — Off Confidential: 92.09.11

ASSESSMENT REPORT 21925 — MINING DIVISION: Omineca

PROPERTY: Lefty
LOCATION: LAT 54 25 00 LONG 127 30 00
UTM 09 6030702 597339
NTS 093L05E 093L06W

MP: 042 Telkwa Range

CLAIM(S): Ant 1,Lefty 1,Spider 1,Bear 1-5
OPERATOR(S): Equity Silver Mines
AUTHOR(S): Hanson, D.J.
REPORT YEAR: 1991, 47 Pages
COMMODITIES
SEARCHED FOR: Gold,Copper,Silver,Zinc
KEYWORDS: Jurassic,Hazelton Group,Volcanics,Alteration,Fractures
Quartz veins,Breccias,Malachite,Azurite,Tetrahedrite,Chalcopyrite
Sphlerite

WORK
DONE: Drilling,Geochemical
DIAD 1099.8 m 7 hole(s);BQ
Map(s) - 6; Scale(s) - 1:5000,1:2500,1:500
SAMP 54 sample(s) ;CU,PB,ZN,AG,AU,AS,SB,FE
MINFILE: 093L 189

1990 DIAMOND DRILLING REPORT

ON THE

LEFTY PROPERTY

MINERAL CLAIMS

OMINECA MINING DIVISION

NTS 93L / 5 & 6

LATITUDE 54 24' N

LONGITUDE 127 30' W

OWNED BY: ATNA RESOURCES LTD.

WORK BY: EQUITY SILVER MINES LIMITED

REPORT BY: D. J. HANSON

DECEMBER 1991

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FIGURES AND TABLES

SUMMARY

The Lefty mineral claim group is located 60 kilometres west of Houston in west central British Columbia.

Previous work on the property resulted in the discovery of an auriferous epithermal quartz vein in the centre of the Lefty 1 claim and a copper-silver-gold bearing alteration zone related to a major shear structure on the Ant 1 claim.

Between September 27 and October 9, 1990 Equity Silver Mines Ltd. contracted 1099.8 metres of diamond drilling in seven holes on the Ant 1 mineral claim to test the bulk tonnage potential of the alteration zone. Fifty-four core samples were assayed for copper, lead, zinc, silver, gold, arsenic, antimony and iron. Although some intersections of copper-silver-gold-zinc and copper-zinc were obtained, no zones of economic importance were identified. The drilling adequately tested the bulk tonnage potential along 800 metres of strike length and therefore no further drilling in the immediate area is recommended.

This report documents expenditures by Equity Silver Mines Ltd. of $134,518.24 between September 27 and November 28 on the Ant 1 claim.

INTRODUCTION

i) LOCATION, ACCESS and PHYSIOGRAPHY

The Lefty mineral claim group is situated 60 km west of the town of Houston, British Columbia at latitude 54 24' North and longitude 127 30' West in NTS map-area 93L / 5&6 (Figure 1).

Access to the property is currently by helicopter from Houston or Smithers to the east and north respectively. A staging area for mobilization is available approximately 10 km south-southeast of the property at the end of the new logging road on the west side of the Thautil River.

Most of the area worked occupies a gently rolling upland plateau with elevations ranging from 1250 metres to 1615 metres at the top of a small knoll. Below treeline at about 1580 metres vegetation consists of balsam fir and spruce forest. Bedrock is generally poorly exposed with the exception of local cliffs and gullies.

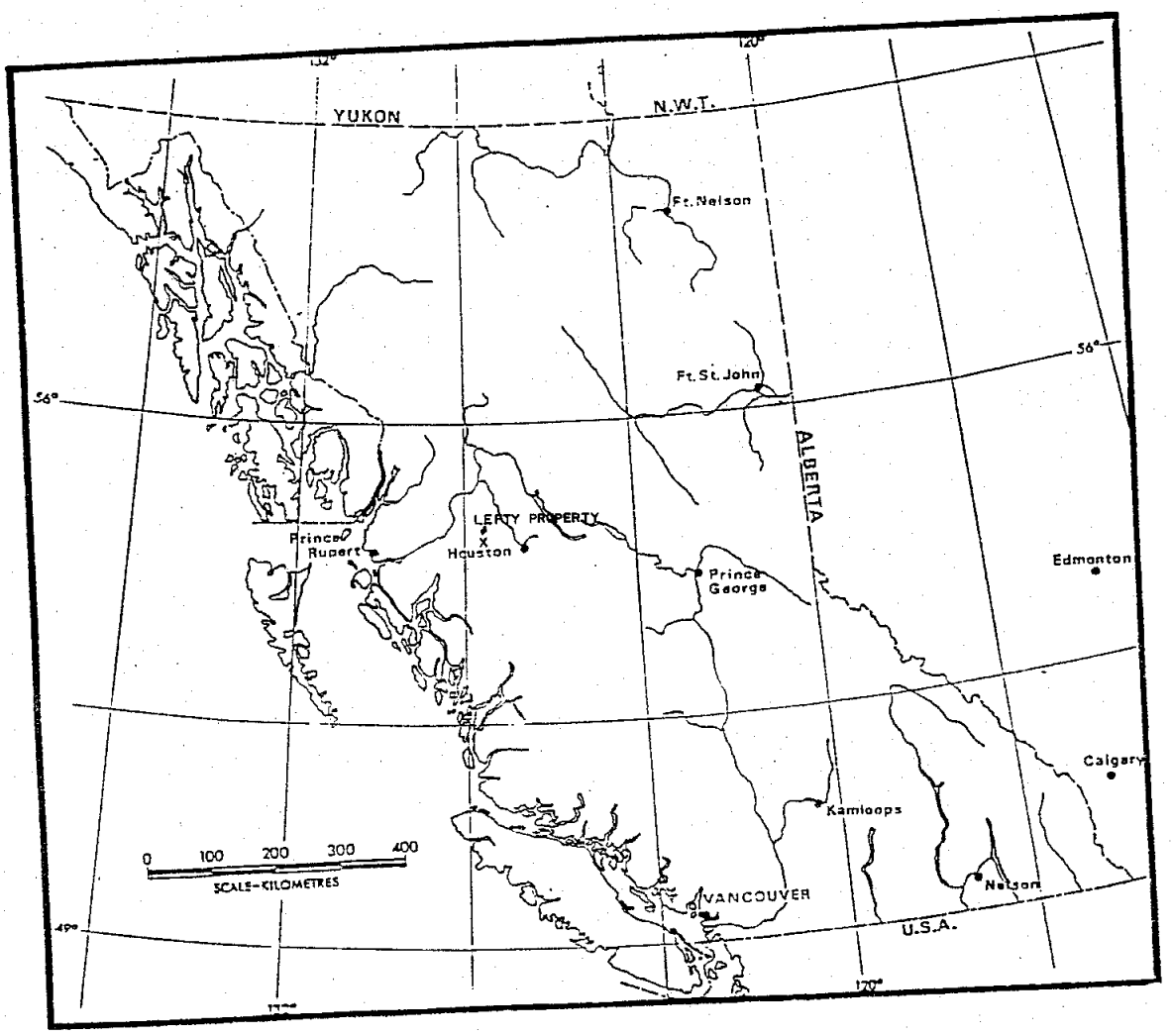
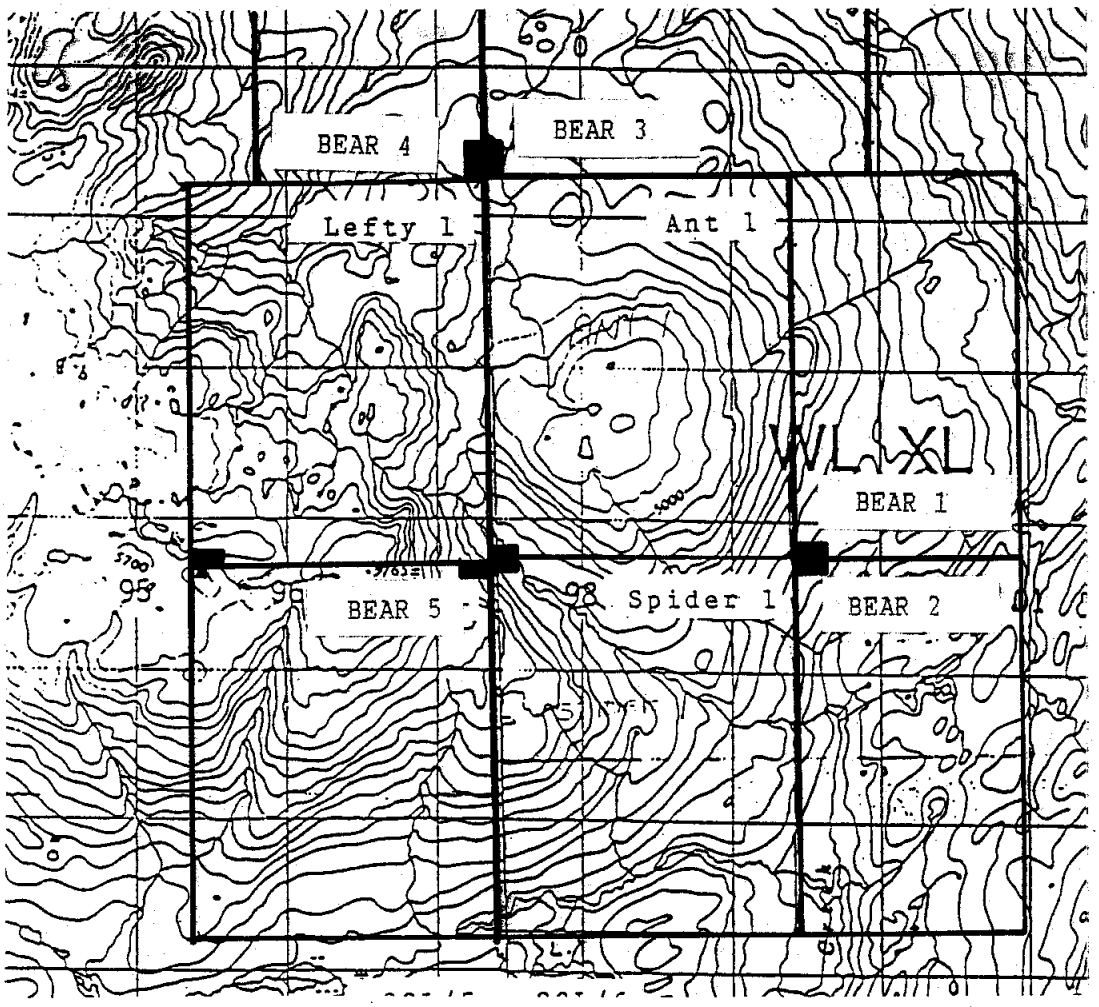


Figure 1 - Property Location Map



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EQUITY SILVER MINES LIMITED

LEFTY CLAIMS

FIGURE 2 - CLAIM MAP

N.T.S. 93 L/ 5&6 1:50,000

0 1 2 km.

Figure 2 - Claim Location Map

ii) CLAIM OWNERSHIP and STATUS

The Lefty mineral property is composed of the following modified grid mineral claims:

TABLE 1

CURRENT CLAIM STATUS - LEFTY PROPERTY

CLAIM	RECORD #	UNITS	EXPIRY DATE
Lefty 1	11106	20	Sept. 28, 1993
Spider 1	11107	20	Sept. 28, 1993
Ant 1	11108	20	Sept. 28, 1993
Bear 1	12599	15	Sept. 12, 1993 *
Bear 2	12600	15	Sept. 14, 1993 *
Bear 3	12601	15	Sept. 13, 1993 *
Bear 4	12602	9	Sept. 13, 1993 *
Bear 5	12603	20	Sept. 14, 1993 *

* pending acceptance of this report

The recorded owner of the Lefty, Ant and Spider claims is Colin Harivel of Smithers B.C. who holds them in trust for Atna Resources Ltd. The recorded owner of the Bear claims is Peter DeLancey of Vancouver B.C. who also holds them in trust for Atna. The present work was carried out under an option agreement between Atna and Equity dated December 1, 1989 and covering all eight claims.

iii) CLAIM HISTORY

Mineral claims in the area were previously held by Joe L'Orsa and Lefty Gardiner of Smithers. No assessment was recorded.

In 1987 the area was staked by Atna Resources Ltd. in the course of regional exploration. Prospecting work that year discovered a gold-bearing epithermal system approximately 3 km long and 600 metres wide with gold values up to 4110 ppb over 0.6 metres on the Lefty 1 claim .

iii) CLAIM HISTORY (cont'd)

In 1988 Atna conducted geological mapping, VLF-EM and magnetometer surveys, and excavator trenching in the immediate area of the main showings.

In the summer of 1990 Equity conducted programs of geological mapping, soil geochemistry, and I.P. geophysics that led to the discovery of an 800 metre long shear zone with related alteration and copper-silver-gold mineralization on the Ant 1 claim (Hanson, 1990).

iv) PURPOSE

The objective of the 1990 diamond drilling program was to further evaluate the bulk tonnage potential of the alteration zone on the Ant 1 claim by testing the width and tenor of the mineralization at depth.

REGIONAL GEOLOGY

The regional geology in this part of the Stikine Terrane is comprised of an incomplete succession of volcanic and sedimentary rocks ranging in age from Lower Jurassic to Miocene.

The region is dominated by a marine and non-marine arc assemblage of the Lower and Middle Jurassic Hazelton Group. Lower Jurassic strata are mainly rhyolitic to andesitic air fall tuffs and breccias with minor intercalated lava flows (Tipper, 1972). Middle Jurassic rocks comprise a mainly marine sequence of tuffs, volcaniclastic sediments, shales, and greywackes.

The stratigraphic interval between Upper Jurassic and Early Upper Cretaceous is occupied regionally by Bowser Lake Group and Skeena Group sediments.

The Kasalka and Ootsa Lake Groups of continental volcanics were deposited in late Upper Cretaceous to Eocene time into down-drop basins typical of this portion of Stikinia.

The layered succession has been intruded by Upper Jurassic to middle Miocene age plugs and stocks.

LOCAL GEOLOGY

A 1:5000 scale geologic map is presented as Figure 4.

This portion of the Lefty property is underlain dominantly by a northeasterly striking interleved sequence of andesitic to rhyolitic volcanic rocks of the Lower Jurassic Telkwa Formation of the Hazelton Group.

The Telkwa Formation has been subdivided locally into andesitic ash tuff and ryholite flow units. Rock types in the ash tuff unit are brick red or dark green in colour, lithic - crystal ash tuffs of intermediate composition that are typical of Lower Jurassic strata regionally. The rocks are generally weakly fractured and propylitically altered. Quartz veinlets and patches occur locally.

The rhyolite flow unit is comprised dominantly of a pale orange coloured, K-spar and quartz porphyritic rhyolite with minor interleved felsic ash - lapilli tuff. Outcrops are massive or weakly to moderately flow banded with 2-3 mm thick randomly oriented laminations. Spherulitic textures occur locally. Up to two percent pyrite was observed locally as disseminations.

In the central portion of the grid the volcanic strata are intruded by a fine to medium grained, grey - pink, plagioclase feldspar porphyry sill approximately 1400 metres long by 400 metres wide. Outcrops are a distinctive orange weathering colour and are weakly to moderately fractured. Pyrite occurs rarely as disseminations up to 2%.

MINERALIZATION and ALTERATION

In the eastern half of the Ant 1 claim, a northeasterly trending zone of weak to strong quartz- sericite alteration crosscuts rocks of the andesitic ash tuff and rhyolite flow units. The zone is exposed in scattered outcrops over an area approximately 1000 metres by 200 metres. Outcrops are strongly fractured to weakly brecciated locally and contain numerous gouge zones. Malachite, azurite, tetrahedrite, chalcopyrite, sphalerite, and bornite mineralization occur as fracture fillings, in quartz veins, as disseminations and in quartz breccia over an undetermined width within the alteration zone. Assay values up to 1.79% copper, 182 grams per tonne silver, 1.67 % zinc and .82 grams per tonne gold were reported from chip samples taken parallel to the zone.

DIAMOND DRILLING

i) PROCEDURE

The 1990 drilling program at the Lefty property consisted of 1099.8 metres of diamond drilling in seven holes. The collar locations and approximate surface projections of the holes are shown in Figure 3.

Level drill pads were constructed of rough timber by the drilling contractor, J.T. Thomas Diamond Drilling of Smithers, B.C. A helicopter-portable modified J.K.S. 300 hydraulic wireline drill rig was utilized to recover BQ sized core. Drilling commenced with hole LF90CH01 on September 27 and was completed with hole LF90CH07 on October 9.

Water was pumped from a small unnamed lake approximately 1000 metres west-southwest of the drill sites.

The holes were spotted relative to the 1990 soil grid using a hip-chain. A brunton compass was used to set the drill azimuth and dip. After hole completion the collar was marked with a labelled spruce pole. Collar elevations were determined using a pocket altimeter.

The core was transported to the Equity Silver minesite for logging, sampling, and permanent storage. All of the holes were logged by the author and M.L.Aziz. Intervals to be assayed were split using a manual core splitter. Split samples were assayed at the Equity minesite for silver, copper, gold, lead, arsenic, antimony, lead, iron, and zinc (see Appendix II for analytical procedure).

Drill logs, assay results, and logging codes are included in Appendix I.

ii) RESULTS and DISCUSSION

The diamond drillhole collars and surface projections are plotted on Figure 3. Sections showing lithologic intervals and copper, silver, gold, zinc assays are displayed in Figures 5-8.

All of the holes were drilled to their planned depth.

Holes LF90CH01, LF90CH02 and LF90CH03 were drilled on Section A-A' near the southwest end of the shear zone near a showing containing malachite, azurite and tetrahedrite. All three holes intersected weakly fractured and variably quartz-sericite altered, andesitic ash/lapilli tuffs interleved with a mixture of flow banded, flow brecciated, and spherulitic rhyolite. Both rock units contain minor quartz veins, veinlets and microveins throughout. Only a trace amount of disseminated pyrite, sphalerite and tetrahedrite? was observed. Three samples were taken from the rhyolite flow unit in hole LF90CH02 but no significant assays were obtained.

Hole LF90CH04 was collared on the northwest side of the shear zone approximately 275 metres northeast of Section A-A'. Rock types encountered were siliceous ash/lapilli tuffs, flow banded rhyolite, and spherulitic rhyolite - all from the rhyolite flow unit. Some of the intervals logged as lapilli or breccia tuff may in fact be flow brecciated rhyolite. Weak silicification occurs as random veins, veinlets, microveins, breccia infillings or replacement patches with or without chalcopyrite, sphalerite and tetrahedrite. Minor quartz-sericite alteration occurs locally as patches in lapilli fragments. Pyrite occurs as weak disseminations up to 2% throughout the hole. Chalcopyrite, sphalerite and tetrahedrite occur mainly as scattered blebs, fine disseminations

ii) RESULTS and DISCUSSION (cont'd)

and in microveins within an interval of spherulitic rhyolite that extends from 89.3 to 139.3 metres. The best intersection averaged 0.25 % copper, 6.3 g/t silver, and 0.39% zinc over 10.4 metres. A banded quartz vein from 154.2- 154.5 metres, with chalcopyrite, sphalerite and tetrahedrite patches assayed 0.33% copper, 17 g/t silver, 0.16 g/t gold, and 1.60% zinc.

Holes LF90CH05 and LF90CH06 were drilled on Section C-C', approximately 190 metres northest of Section B-B'. Hole LF90CH06 intersected lithologies, alteration and mineralization similar to LF90CH04. Very weak tetrahedrite, chalcopyrite and sphalerite mineralization was intersected in spherulitic rhyolite from 114.4 to the end of the hole. No significant assays were returned.

Hole LF90CH05 was drilled under the shear zone near a malachite-azurite-tetrahedrite showing. The hole intersected flow banded rhyolites and siliceous lapilli tuffs of the rhyolite flow unit before grading into lapilli/ash tuffs and amygdaloidal porphyritic andesites of the andesite tuff unit. A strongly brecciated zone (shear?) with quartz-chalcopyrite-tetrahedrite-sphalerite mineralization, between 20.1 and 23.6 metres, averaged 0.65% copper, 44 g/t silver, 0.32 g/t gold and 1.05% zinc. Quartz and quartz-carbonate veinlets and microveins occur throughout the andesitic ash tuff unit.

Hole LF90CH07 was drilled subparallel to Section C-C' approximately 150 metres to the northest. It intersected flow banded rhyolites and siliceous lapilli tuffs (or silicified andesitic tuffs) of the rhyolite flow unit. No spherulitic rhyolite was observed. Silicification occurs as veins, veinlets,

ii) RESULTS and DISCUSSION (cont'd)

microveins, minor breccia infillings, and replacement patches. Very minor tetrahedrite, chalcopyrite, sphalerite and pyrite mineralization occurs as blebs, disseminations and in microveins within the flow banded rhyolite. From 22.5 - 24.7 metres, a weakly brecciated interval assayed 0.23% copper, 8 g/t silver, and 1.17% zinc. A banded quartz vein with chalcopyrite, sphalerite, and tetrahedrite patches assayed 0.17% copper, 6 g/t silver and 4.08% zinc over 0.2 metres from 144.5 - 144.7.

The volcanic rocks in all seven holes are intruded by narrow dykes that range in composition from andesite to rhyolite.

CONCLUSION and RECOMMENDATIONS

A variably developed zone of silicification and phyllic alteration is spatially related to a major NE-SW striking shear zone on the east side of the Ant 1 claim. Chalcopyrite, sphalerite and tetrahedrite mineralization occur mainly as small blebs and in microveins within spherulitic rhyolites and secondarily as patches within narrow, banded quartz veins and breccia zones. Precious metal values are uniformly low.

Due to the low precious metal tenor of the mineralized intersections, no further work is recommended to evaluate the bulk tonnage potential of this alteration zone.

STATEMENT OF EXPENDITURES

1. BQ Diamond Drilling J.T. Thomas Diamond Drilling 1099.8 metres @ $113.81 / metre (includes drill pads, helicopter, camp)	$125,168.24
2. Labour	
D. Hanson; supervision & core logging 9 days @ $200.00/day	1,800.00
M. Aziz; supervision, core logging & splitting 19 days @ $150.00/day	2,850.00
3. Analytical	
Equity Silver Mines Laboratory for Cu, Pb, Zn, Ag, Au, As, Sb, Fe 54 samples @ $25.00 ea.	1,350.00
4. Transportation	
4X4 truck 27 days @ $50.00/day	1,350.00
5. Report (includes computing, copying, plotting)	2,000.00
TOTAL	$.134,518.24

AUTHOR'S QUALIFICATIONS

I, Daryl J. Hanson, do hereby certify that:

1. I am a geologist residing at R.R.#1, Quick East Road, Telkwa, British Columbia, V0J 2X0.

2. I am a 1971 graduate of the University of British Columbia, Vancouver, B. C. with a Bachelor of Applied Science degree in Geological Engineering.

3. I was employed as a geologist in mining, exploration, and development capacities with Cyprus Anvil Mining Corporation in Faro, Yukon from September 1973 to April 1981.

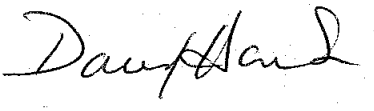
4. Between May 1982 and October 1987, I was employed as a contract exploration geologist in northwestern British Columbia, principally with Equity Silver Mines Limited.

5. Since February 1988, I have been employed as an exploration geologist with Equity Silver Mines Limited.

6. I am a Fellow of the Geological Association of Canada.

7. I personally supervised the work programme as described in this report.

Respectfully submitted,
Equity Silver Mines Ltd.



Daryl J. Hanson, B.A.Sc., F.G.A.C.
Exploration Geologist

REFERENCES

Hanson, D.J. (1990). Geology, Geochemistry and Geophysics of the Lefty Property, B.C. Assessment Report

Tipper, H.W. (1972). Smithers Map-Area, B.C.; Geological Survey of Canada, Report of Activities, Paper 72-1A

APPENDIX I

DIAMOND DRILL HOLE GEOLOGIC LOGS, ASSAYS, AND LOGGING CODES

DRILLHOLE LOGGING CODE

Column 1 is a key indicating the type of information on each line.

H - Survey or Header data/information
L - Lithologic data
S - Structural data
A - Assay data
C - Comments

SURVEY OR HEADER DATA

DDHID - Drillhole number
LOGGED BY - Logger's initials
DATE - Year.Month Drilled
GRID AZM. - orientation of grid (000 if True North)

FROM - start of interval in metres
TO - end of interval in metres
AZM - drillhole azimuth
V-ANG - plunge of hole measured from horizontal
NORTHING - north coordinate of collar
EASTING - east coordinate of collar
ELEVATION - collar elevation in metres above sea level

LITHOLOGIC DATA

FROM - start of interval in metres
TO - end of interval in metres
LITH - lithology codes

OVBN - overburden
TFAS - ash tuff
TFLP - lapilli tuff
TFBX - tuff breccia
ASLP - mixed ash/lapilli tuff
AFP* - alkali feldspar porphyry
RYFL - flow banded rhyolite
ANDY - andesite dyke
LADY - latite dyke
RYSP - spherulitic rhyolite
RYDY - rhyolite dyke
VLSS - volcanic sandstone
ANFL - amygdaloidal andesite
ANDS - porphyritic andesite
RYAF - rhyolitic flow breccia

LC - lightness and colour codes

9 - palest	R - red
8 - pale	U - brown
7 - light	A - grey
6 - lighter	O - orange
5 - medium	T - tan
4 - darker	G - green
3 - dark	W - white
2 - very dark	N - black
1 - darkest	

IF - intensity of pre-alteration fracturing

0 - no fracturing
1 - weak fracturing
2 - moderate fracturing
3 - mod. to strong fracturing
4 - strong fracturing
5 - weak brecciation
6 - weak to mod. brecciation
7 - moderate brecciation
8 - mod. to strong brecciation
9 - strong brecciation

ALT. - type of alteration

C - clay
Q - silicification
MS - quartz-sericite
CB - carbonate

MINERAL ABBREVIATIONS

CB - carbonate	PO - pyrrhotite
QZ - quartz	CY - clay
SL - sphalerite	MS - sericite
CL - chlorite	HE - hematite
PY - pyrite	TT - tetrahedite
MG - magnetite	CP - chalcopyrite
EP - epidote	AK - ankerite
HS - specularite	BN - bornite

MISCELLANEOUS ABBREVIATIONS

TR - trace	FG - fine grained
MIN - minor	MG - medium grained
MOD - moderate	CG - coarse grained
INT - intense	W/ - with
BTW - between	W/O - without
EOH - end of hole	SDE - sulfide
ALTN - alteration	MASS - massive
CF - compare	TEXT - texture
FRAG - fragment	INTLEV - interleved
SPHU - spherulites	LAM - laminnations

TEXTURAL ABBREVIATIONS

<< - microveins (<0.5 mm)
>> - veinlets (0.5 to 5 mm)
VV - veins (>5 mm)
DS- disseminations
P* - porphyritic
A* - amygdaloidal
EN - envelopes
PT - patches
SP - spots
IN - interstitial
BX - breccia

STRUCTURAL DATA

ID - structural code

BX - breccia
GG - gouge
CN - contact
S0 - bedding
BN - banding (S0 ?)
FT - fault
VN - vein
BD - bedding
FB - flow banding

CA - angle of structure with respect to core axis

AZM - azimuth of structure if core orientation known

WID - width of structure in millimeters

ASSAY DATA

SAMP# - sample number
REC - core recovery in metres
g/tAG - grams per tonne silver
g/tAU - grams per tonne gold
%CU - % copper
%SB - % antimony
%AS - % arsenic
%FE - % iron
%PB - % lead
%ZN - % zinc

DDH LF90CH01 SURVEY LOG

H DDHID : LF90CH01
H LOGGED BY : MLA
H DATE : NOV 90
H CORE SIZE : BQ
H PROPERTY : LEFTY
H GRID AZM. : 000
H TOT LGTH : 152.4

	FROM (m)	TO (m)	AZM.	V-ANG	NORTHING (m)	EASTING (m)	ELEVATION (m)
R	0.0	152.4	307.0	-45.0	850.0	925.0	1463.0
R		152.4	307.0	-45.5			

DDH LF90CH01 LITHOLOGIC LOG

	FROM (m)	TO (m)	LITH	LC	IF	ALT	COMMENTS
L	0.0	3.1	OVBN				:TRICONED - NO CORE
L	3.1	8.5	TFLP	5RG	2	QS	:WK QS ALTN, INTERLEVED CL & HE MATRIX
L							:VOLC, HE & CL MG FRAG
L							:MIN QZ/CB >> +/- FE OXIDE, NO SDE
L	8.5	11.9	TFLP	6TG	3	QS	:MOD QS ALTN, PT OF UNALTD GREEN CL TFLP
L							:W/ GRAD ALTN CN'S
L							:SEV QZ VN & >>, HE FRAG, TR DS PY
L	11.9	13.1	AFP*	6GO	2	C	:FG CL/C MATRIX, 20% CG ALKALI FELDSPAR
L							:P*, TR DS TT - ALKALI FELD PORPHYRY
L	13.1	14.9	ANDY	4GA	1	-	:FG CL MATRIX, TR QZ <<, TR CL +/- HE <<
L	14.9	17.6	AFP*	6GO	2	C	:FG CL/C MATRIX, ALK. FELD PORPHYRY, 25%
L							:ALKALI FELD. P*
L	17.6	20.9	TFLP	4RA	2	QS	:WK ALTN, CG HE & MS ALTD FRAG, HE MATRIX,
L							:MOD QZ VN & <<
L	20.9	32.2	TFLP	6RT	3	QS	:STR QS ALTN, HE/QS MATRIX & FRAG, TR CL
L							:<<, QZ >>
L	32.2	39.4	TFLP	4R	1	-	:GRAD UPPER CN, HE CG FRAG & MATRIX,
L							:TR QZ <<
L	39.4	44.5	TFAS	4R	1		:HE MATRIX, MG ASH FRAG, TR QZ <<
L	44.5	49.9	TFAS	4RG	2	QS	:INTERLEVED HE & CL MATRIX TFAS, WK-MOD
L							:QS ALTN PT
L							:HE & CL FRAG, WK LAYERING
L	49.9	55.6	ASLP	6GT	2	QS	:MOD QS ALTN, FG CL/QS MATRIX, 10% CL & HE
L							:LAP FRAG
L	55.6	57.3	ANDY	3G	1	-	:F.G. CL MATRIX, TR QZ/CB <<
L	57.3	65.6	TFLP	6OT	1	QS	:WK-MOD QS ALTN, CG HE FRAG, MIN CL W/IN
L							:MATRIX, MOD QZ VN & >>

L	65.6	67.8	TFLP	7RW	4	QS	:PT OF STR QS ALTN, INC QZ VN & >> W/ WK
L							:BX ZONES, NO SDE
L	67.8	77.1	TFLP	4R	1	-	:HE MATRIX & CE FRAG, TR QZ <<
L	77.1	102.1	RYFL	5OT	1	-	:F.G. ALK FELD/QZ/MATRIX W/ 10-15% K SPAR
L							:XT, TR CL SP, MIN DS TT, TR QZ <<, NO
L							:FLOW LAM- POSSIBLY A SILL OR DYKE
L	102.1	105.4	RYFL	4OT	3	-	:SEV CL <<, WK BX'D ZONES, TR DS TT
L	105.4	110.4	RYFL	5OT	2	-	:DEC CL <<, TR QZ <<, 5% KSPAR XT - SILL
L							:OR DYKE?
L	110.4	112.6	TFLP	3RU	1	-	:HE MATRIX & FRAG, TR QZ <<
L	112.6	115.3	RYFL	6OY	1	-	:F.G. Q KSPAR MATRIX, 5% KSPAR XT, TR QZ
L							:<< -POSSIBBLY DYKE
L	115.3	121.1	TFLP	3RU	1	-	:HE MATRIX & FRAG, TR CL FRAG, MIN QZ VN
L							:& <<
L	121.1	143.5	RYFL	5OT	2	-	:F.G. Q/KSPAR MATRIX, 5-10% KSPAR XT, MIN
L							:CL W/IN MATRIX,TR QZ <<, TR DS TT
L	143.5	146.8	TFAS	4RU	2	-	:HE MATRIX & FRAG, TR CL FRAG & SP, WKLY
L							:LAYERED PT'S
L	146.8	152.4	TFLP	5RT	1	-	:HE MATRIX, ABUND HE FRAG, MIN CL & FELSIC
L							:FRAG, NO SDE
L							:E.O.H. AT 152.4

DDH LF90CH01 STRUCTURAL LOG

	FROM (m)	TO (m)	ID	CA	AZM	WID (mm)	COMMENTS
S		11.9	CN	51			:CN BTW TFLP/POTASSIC & C ALTD TFLP
S		13.1	CN	58			:CN BTW POTASSIC ALTD TFLP/ANDY
S		14.9	CN	25			:CN BTW ANDY/POTASSIC & C ALTD TFLP
S		17.6	CN	26			:CN BTW TFLP/MS ALTD TFLP - SHARP W/ GG
S		55.6	CN	46			:CN BTW ASLP/ANDY - SHARP
S		57.3	CN	48			:CN BTW ANDY/TFLP
S		77.1	CN	42			:CN BTW TFLP/RYFL - ALTD CN
S		110.4	CN	--			:CN BTW RYFL/TFLP - ALTD CN
S		112.6	CN	58			:CN BTW TFLP/RYFL
S		115.3	CN	49			:CN BTW RYFL/TFLP
S		121.5	CN	--			:CN BTW TFLP/RYFL - GRAD
S		143.5	CN	56			:CN BTW RYFL/TFAS

DDH LF90CH01 ASSAY LOG

	ROM (m)	TO (m)	SAMP#	REC. (m)	%CU	g/tAG	g/tAU	%SB	%AS	%FE	%PB	%ZN
C	0.0	152.4	NO SAMPLES TAKEN									

DDH LF90CH02 SURVEY LOG

H DDHID : LF90CH02
H LOGGED BY : MLA
H DATE : OCT 90
H CORE SIZE : BQ
H PROPERTY : LEFTY
H GRID AZM. : 000
H TOT LGTH : 152.4

	FROM (m)	TO (m)	AZM.	V-ANG	NORTHING (m)	EASTING (m)	ELEVATION (m)
R	0.0	152.4	115.0	-45.0	850.0	925.0	1463.0
R		152.4	115.0	-44.5			

DDH LF90CH02 LITHOLOGIC LOG

	FROM (m)	TO (m)	LITH	LC	IF	ALT	COMMENTS
L	0.0	3.0	OVBN				:TRICONED - NO CORE
L	3.0	7.1	TFLP	7AG	2	C	:FG FRAG, MOD PERV C ALTN, CL & C ALTD
L							:FRAG, CORE BROKEN UP & SLIGHTLY OXIDIZED
L	7.1	8.4	TFLP	5AG	4	C	:GG ZONE W/ CG TFLP FRAG, SHARP CN'S
L	8.4	9.1	ANDY	7YA	2	C	:FG, CL <<, STR C ALTN
L	9.1	11.9	TFLP	4UR	2	-	:HE MATRIX, HE & CL FRAG, TR DS PY
L	11.9	13.5	TFLP	7AG	3	C	:STR ALTN, CG HE & CL FRAG, TR DS PY
L	13.5	17.6	TFLP	7YR	3	Q	:MOD Q ALTN, CG HE FRAG, INC QZ >> & <<,
L							:GRAD UPPER CN
L	17.6	19.6	TFLP	6TG	2	-	:MG HE & CL FRAG, CL MATRIX, QZ +/- CB VN
L							:& >>, MIN FG DS PY
L	19.6	23.4	ASLP	5RG	1	-	:FG CL ASH MATRIX, CG HE & CL FRAG, TR QZ
L							:<<, TR DS PY
L	23.4	29.3	TFLP	4RA	2	Q	:WK PERV Q ALTN, CG HE FRAG, QZ <<, TR PY
L	29.3	34.5	TFLP	5RG	2	-	:FG CL MATRIX, MG HE FRAG, MIN QZ <<
L	34.5	37.8	TFLP	4RA	2	Q	:GRAD ALTN, HE FRAG, TR DS PY, ALTN
L							:BECOMING QS @ END OF INTERVAL
L	37.8	43.5	TFLP	6RT	2	QS	:STR QS ALTN, CG HE FRAG, QZ <<, TR DS PY
L	43.5	48.4	TFLP	7RT	2	QS	:STR PERV ALTN, HE FRAG, 1 PY <<
L	48.4	49.2	ANDY	7YA	1	C	:FG, CL SP, STR C ALTN
L	49.2	55.6	TFAS	5YR	3	MS	:PTY SERICITE ALTN, HE MATRIX & FG FRAG,
L							:CL & QZ +/- CB >> & <<
L	55.6	57.4	TFAS	5AG	3	-	:CL MATRIX & FG FRAG, SEV QZ PT & VN,CL <<
L	57.4	62.9	TFAS	6OA	4	C	:2 GG ZONES, SEV QZ << & >>, WK BX PT, TR
L							:DS PY
L	62.9	64.3	RYFL	6OY	3	-	:WKLY BX'D PT, SEV QZ FRAC, TR DS TT & PY
L	64.3	67.8	RYSP	5TO	3	-	:FLOW LAMINATED, 25-30% SPHU UP TO 1.8cm
L							:ACROSS - SOME W/ INNER CAVITIES +/- QZ,
L							:MIN CL SP & <<
L	67.8	68.9	RYSP	4AO	3	Q	:INC CL SP & <<, FLOW LAM, WK Q ADDED?,
L							:TR DS TT

L	68.9	74.3	ANDY	3AG	1	-	:FG W/ TR QZ +/- CB >> & <<
L	74.3	77.4	RYSP	4TO	3	Q	:FLOW LAM, WKLY BX'D QZ ALTD PT, 30% SPHU
L							:UP TO 3.0cm ACROSS & IRREGULAR SHAPED, TR
L							:TT BLEB
L	77.4	85.5	RYSP	5TO	2	-	:WELL DEV FLOW LAM, 35% SPHU UP TO 2cm DIA
L							:TR TT W/IN SPHU, MIN RUSTY FRAC
L	85.5	91.4	RYSP	6TO	1	-	:FLOW LAM, 35% SPHU-1.5cm DIA, MIN QZ <<
L							: +/- TR FG TT
L	91.4	92.9	RYSP	4TO	3	-	:FLOW LAM, 65%.SPHU-0.9cm DIA, INC QZ >> &
L							:<< +/- TR PY & TT
L	92.9	103.2	RYSP	5TO	2	-	:FLOW LAM, 25% SPHU - 2.0cm DIA, MIN WKLY
L							:BX'D PT, TR DS TT & PY
L	103.2	106.9	RYSP	5TO	3	-	:AS ABOVE: SEV RUSTY FRACT, TR TT BLEB
L	106.9	113.5	RYSP	5TO	2	-	:FLOW LAM, 10% SPHU - 1.5cm, SMALL CL SP,
L							:MIN QZ >>
L	113.5	114.2	RYFL	6TO	5	Q	:FLOW LAM, MOD BX'D W/ QZ INFILL, TR PY &
L							:TT
L	114.2	117.7	RYFL	6TO	3	-	:FLOW LAM @ 65 DEG., SEV QZ VN & >>, SMALL
L							:GG ZONE
L	117.7	118.8	TFLP	6TO	3	-	:RHY. TFLP W/ CG FLOW FRAG, SEV QZ VN & >>
L							:TR PY & TT
L	118.8	122.2	TFLP	6TO	1	-	:RHY. TFLP, CG RHY FRAG, TR QZ >>
L	122.2	127.3	RYFL	5TO	3	-	:FLOW LAM - WKLY DEV, SEV QZ VN & >>, TR
L							:WKLY BX'D PT'S +/- CL & HEM
L	127.3	129.4	RYFL	4GT	5	Q	:FG FLOW W/O LAM, MOD BX'D W/ QZ +/- CL
L							:MIN TT BLEB
L	129.4	133.2	RYDY	7TO	2	-	:FG RHY DYKE?, MIN PLAG P*, MOD QZ VN & >>
L							:SMALL GG ZONE, TR TT W/IN QZ >>
L	133.2	134.1	ANDY	4WG	1	-	:FG CL DYKE, BLEACHED CN'S W/ RYDY
L	134.1	140.3	RYDY	7TO	2	-	:FG, PLAG P*, TR QZ +/- TT <<, TR BX'D PT
L	140.3	145.0	RYFL	5TO	2	-	:FLOW LAM, MIN SPHU, MOD QZ +/- CL >>,
L							:CL SP
L	145.0	152.4	RYSP	5TO	2	-	:AS ABOVE W/ 20% CG SPHU, TR PY & TT
R							:E.O.H. @ 152.4m

DDH LF90CH02 STRUCTURAL LOG

	FROM (m)	TO (m)	ID	CA	AZM	WID (mm)	COMMENTS
S	7.1	8.4	GG	70			:GG ZONE
S		8.4	CN	70			:CN BTW GG ZONE/ANDY
S		9.1	CN	55			:CN BTW ANDY/TFLP
S	17.7	17.8	VN	48		110	:QZ/CB VN W/ WK BX'D INCLUSIONS
S		48.4	CN	78			:CN BTW TFLP/ANDY
S		49.2	CN	--			:CN BTW ANDY/TFAS
S	57.9	58.3	GG	--			:GG ZONE - CY & TFAS FRAG
S	62.5	62.8	GG	74			:AS ABOVE
S	62.8	62.9	BX	--			:QZ BX ZONE & CN W/ RYFL?

S		68.9	CN	--	:CN BTW RYFL/ANDY - NOT IN CORE
S		74.3	CN	41	:CN BTW ANDY/RYFL
S	113.5	114.2	BX	--	:MODLY BX'D ZONE W/ QZ INFILL
S	116.2	116.4	GG	69	:CY GG ZONE
S		117.7	CN	--	:CN BTW RYFL/TFLP (RY COMP) - NOT IN CORE
S		122.2	CN	47	:CN BTW TFLP/RYFL - SHARP
S	127.3	129.4	BX	70	:QZ +/- CL BX ZONE W/IN RYFL
S	129.7	129.9	GG	--	:CY GG ZONE
S		129.4	CN	70	:CN BTW RYFL/RYDY
S		133.2	CN	33	:CN BTW RYDY/ANDY - SHARP
S		134.1	CN	--	:CN BTW ANDY/RYDY - NOT IN CORE
S		140.3	CN	25	:CN BTW RYDY/RYFL - SHARP W/ GG

DDH LF90CH02 ASSAY LOG

	FROM (m)	TO (m)	SAMP#	REC. (m)	%CU	g/tAG	g/tAU	%SB	%AS	%FE	%PB	%ZN
C	0.0	113.5	NO SAMPLES TAKEN									
A	113.5	114.2	10172	.01	1.0	.05	.01	.01	1.20	.005	.02	
C	114.2	117.7	NO SAMPLES TAKEN									
A	117.7	118.8	10173	.01	6.0	.06	.005	.005	1.30	.005	.01	
C	118.8	127.3	NO SAMPLES TAKEN									
A	127.3	129.4	10174	.01	6.0	.06	.005	.005	1.10	.02	.09	
C	129.4	152.4	NO SAMPLES TAKEN									

DDH LF90CH03 SURVEY LOG

H DDHID : LF90CH03
H LOGGED BY : MLA
H DATE : NOV 90
H CORE SIZE : BQ
H PROPERTY : LEFTY
H GRID AZM. : 000
H TOT LGTH : 149.4

	FROM (m)	TO (m)	AZM.	V-ANG	NORTHING (m)	EASTING (m)	ELEVATION (m)
R	0.0	149.4	295.0	-45.0	915.0	850.0	1493.4
R		149.4	295.0	-43.5			

DDH LF90CH03 LITHOLOGIC LOG

	FROM (m)	TO (m)	LITH	LC	IF	ALT	COMMENTS
L	0.0	3.1	OVBN				:TRICONED - NO CORE
L	3.1	11.0	ASLP	4AR	2	QS	:CORE BROKEN UP, WK MS ALTD PT, HE MATRIX
L							: -FRAG, NO SDE
L	11.0	34.7	RYFL	5OT	2	-	:F.G. QZ/KSPAR MATRIX, 10-15% CG KSPAR P*,
L							:TR QZ <<, POSSIBLY KSPAR P* SILL? , TR
L							:DS TT
L	34.7	45.8	TFLP	4RU	1	-	:F.G. HE MATRIX, HE & MIN CL FRAG, TR QZ
L							:<<, NO SDE
L	45.8	49.0	ANDY	6AG	2	CB	:WK CB ALTN AT UPPER CN FOR 0.6m, F.G. CL
L							:MATRIX, MIN QZ/CB >> & <<
L	49.0	58.6	TFLP	4RU	1	-	:HE MATRIX & FRAG, MIN TFAS PT, MIN CL/C
L							:P, CORE BROKEN UP NEAR END OF UNIT
L	58.6	62.1	TFAS	6TR	3	MS	:STRLY FRACT W/WK BX'D ZONE, MOD MS ALTN
L							:AROUND FRAC, FG HE/MS MATRIX, HE FRAG,
L							:CORE BROKEN UP
L	62.1	65.8	TFLP	4AG	2	-	:FG CL MATRIX, MG CL & HE FRAG, 2% DS PY,
L							:MIN QZ/CB << GRAD LOWER CN (ALTD)
L	65.8	68.8	TFAS	6TR	3	MS	:15% HE LAP FRAG, MS/HE MATRIX, INC QZ/CB
L							:>> & <<, TR DS PY
L	68.8	91.5	TFLP	4RU	1	-	:F.G. HE MATRIX, MG - CG HE FRAG, TR CL
L							:<<, TFAS PT
L	91.5	92.3	TFLP	4RG	3	MS	:CL W/ MIN HE & MS MATRIX, CL & HE FRAG,
L							:WELL FRACT
L	92.3	101.7	RYFL	5OT	1	QS	:WK PERV QS ALTN, FG Q/KSPAR MATRIX, 5%
L							:KSPAR XT, MIN CL SP, GRAD UPPER CN
L							:- POSSIBLY SILL OR DYKE
L	101.7	108.8	RYFL	6T	2	QS	:F.G. QS.KSPAR MATRIX, MOD-STR PERV ALTN,
L							:INC QZ >>, CL ALTD XT
L	108.8	110.4	RYFL	5OT	3	QS	:GRAD DEC IN QS ALTN, CL SP, INC QZ >>
L	110.4	116.5	TFLP	6YT	1	QS	:WK-MOD QS ALTN, RY COMP, HE & FEL FRAG,

L							:TR DS PY
L	116.5	127.5	RYFL	5OT	2	-	:MIN ALTD PT, Q/KSPAR MATRIX, 5% KSPAR &
L							:PLAG XT, MIN CL SP, TR QZ <<
L	127.5	131.3	RYFL	6AT	4	Q	:WKLY BX'X W/ QZ INFILL, NO SDE, CL SP
L	131.3	133.6	RYFL	5OT	2	-	:WK FLOW LAM, MIN SPHU - .4cm dia, MIN QZ
L							:>>, TR DS PY
L	133.6	135.4	ANDY	5TG	2	-	:F.G. CL MATRIX & SP, BLEACHED NEAR CN's
L	135.4	142.3	RYSP	6TO	2	-	:SPHERULITIC FLOW, 35% SPHU -.8cm dia
L	142.3	145.0	TFLP	7AW	2	QS	:STR PERV QS ALTN, CG ALTD FRAG, TR DS PY
L	145.0	149.4	TFLP	7GW	2	QS	:MOD-STR PERV QS ALTN, CL/QS MATRIX, CG
L							:FRAG - ALTD, TR EPIDOTE <<, TR DS PY
C							:E.O.H. at 149.4m

DDH LF90CH03 STRUCTURAL LOG

	FROM (m)	TO (m)	ID	CA	AZM	WID (mm)	COMMENTS
S		11.0	CN	85			:CN BTW ASLP/RYFL
S		34.7	CN	87			:CN BTW RYFL/TFLP - MINOR GG AT CN
S		45.8	CN	--			:CN BTW TFLP/ANDY - NOT IN CORE
S		49.0	CN	46			:CN BTW ANDY/TFLP - SHARP
S		92.3	CN	--			:CN BTW TFLP/RYFL - GRAD
S		110.4	CN	59			:CN BTW RYFL/TFLP(RY) - SHARP -EROSIONAL?
S		116.5	CN	--			:CN BTW TFLP/RYFL - NOT IN CORE
S		133.6	CN	--			:CN BTW RYFL/ANDY - NOT IN CORE
S		135.4	CN	54			:CN BTW ANDY/RYSP - SHARP
S		142.3	CN	--			:CN BTW RYSP/TFLP - NOT IN CORE

DDH LF90CH03 ASSAY LOG

	FROM (m)	TO (m)	SAMP#	REC. (m)	%CU	g/tAG	g/tAU	%SB	%AS	%FE	%PB	%ZN
C	0.0	149.4	NO SAMPLES TAKEN									

DDH LF90CH04 SURVEY LOG

H DDHID : LF90CH04
H LOGGED BY : MLA
H DATE : OCT 90
H CORE SIZE : BQ
H PROPERTY : LEFTY
H GRID AZM. : 000
H TOT LGTH : 201.2

	FROM (m)	TO (m)	AZM.	V-ANG	NORTHING (m)	EASTING (m)	ELEVATION (m)
R	0.0	201.2	120.0	-45.0	1150.0	971.0	1456.9
R		201.2	120.0	-41.5			

DDH LF90CH04 LITHOLOGIC LOG

	FROM (m)	TO (m)	LITH	LC	IF	ALT	COMMENTS
L	0.0	3.0	OVBN				:TRICONED - NO CORE
L	3.0	11.4	RYFL	6TO	2	-	:RHYOLITIC FLOW, FG, THIN FLOW LAMINAE
L							:THROUGHOUT, MIN FRAC +/-LQZ TR OXIDIZED
L							:FRAC, CORE BROKEN UP, 1% DS PY, TR GP,
L							:MIN SPEC HE
L	11.4	15.1	RYFL	5TU	3	-	:INCREASED QZ VN & >>, TR CL W/IN QZ PT,
L							:TR RUSTY FRAC - 1% DS PY, TR SPEC HE (DS)
L	15.1	15.8	ANDY	6TG	1	C	:C ALTD FG ANDESITE DYKE
L	15.8	19.2	TFLP	4TU	2	-	:RY COMP, HE & RYFL FRAG, COM FELSIC FRAG,
L							:TR QZ >> - .5% DS PY, TR SPEC HE, CG FRAG
L	19.2	22.2	TFLP	4TU	2	-	:MG FRAG, MIN QZ << & >>, MIN SPHERULITIC
L							:KSPAR W/IN FRAG, .5% DS PY
L	22.2	23.1	ANDY	4G	1	-	:FG CL MATRIX MIN QZ <<, BLEACHED NEAR
L							:CN's
L	23.1	26.1	TFLP	4TU	1	-	:CG FEL & RYFL FRAG, CORE BROKEN UP &
L							:OXIDIZED
L	26.1	29.1	TFLP	4TU	1	-	:AS ABOVE : SEV FRAG W/ SPHERULITES(SPHU),
L							:1% DS PY
L	29.1	32.1	TFLP	4TU	1	-	:AS ABOVE : TR QZ <<
L	32.1	35.1	TFLP	4TU	2	-	:INC SPHU FRAG, DEC RYFL FRAG, MIN QZ >>
L	35.1	38.2	TFBX	4RU	1	-	:LARGE SPHU FRAG, CG RYFL FRAG, TR QZ <<,
L							:MIN PY
L	38.2	41.0	TFLP	4RU	1	MS	:CG FRAG, MIN MS ALTD FRAG, TR PY
L	41.0	43.7	TFAS	6RT	1	-	:FG W/ MIN TFLP FRAG, GRADES TO TFLP,
L							:WKLY LAYERED, TR PY
L	43.7	45.8	TFAS	6TO	2	C	:WK C ALTD PT, FE CB PT & FRAC, MIN DS PY
L	45.8	48.8	TFLP	6GA	1	-	:M.G. FRAG, FELSIC COMP, MIN MANGANESE /
L							:FE CB/QZ VN? TR PY
L	48.8	52.2	TFLP	6GA	1	-	:AS ABOVE : INC FE CB/MANG/QZ VN, TR PY
L	52.2	54.1	TFLP	7GT	1	MS	:WK MS ALTN, CG FRAG, .5% DS PY

L	54.1	57.1	TFLP	6TG	2	MS	:CL & HE FRAG, CL W/IN MATRIX, 2-3% DS PY,
L							:MIN GREY SDE
L	57.1	60.1	RYDY	6UO	0	-	:RHYOLITE DYKE? W/ KSPAR/QTZ MATRIX -
L							:5-6% PLAG P*, MIN PY
L	60.1	64.1	RYDY	6UO	0	-	:AS ABOVE: BLEACHED ZONE IN CN W/ TFLP
L	64.1	66.9	TFLP	4AG	3	C	:FELSIC COMP, CG FRAG, CL FRAG & MATRIX,
L							:RYFL FRAG, MIN C PT - 2-3% FG PY DS, MIN
L							:FG CP +/- GREY SDE (TET?)
L	66.9	69.8	TFLP	4RG	3	C	:MIN C ALTN, INC RYFL FRAG, 2-3-% PY PT,
L							:OVERALL 1% DS PY
L	69.8	72.8	TFLP	4TR	2	Q	:INC RYFL FRAG, Q MATRIX, MIN GREY SDE
L							:BLEB, < 1% DS PY
L	72.8	75.8	TFLP	4RG	2	Q	:Q/CL MATRIX, TR GREY SDE, 1-2% DS PY,
L							:QZ VNLT
L	75.8	78.8	TFLP	4AG	2	Q	:MIN GREY SDE BLEB, TR CP/GREY SDE <<
L							:1% DS PY
L	78.8	81.9	TFLP	6YA	2	MS	:PT MS MG FRAG, DEC RYFL & CL FRAG, TR
L							:GREY SDE, MIN PY
L	81.9	85.0	TFLP	6RT	2	MS	:.5% TET +/- CP BLEB & <<, MIN DS PY
L	85.0	88.6	TFAS	6RT	2	-	:COMMON SPHU, 1% TET +/- CP BLEB & TR <<,
L							:MIN DS PY
L	88.6	89.3	ANDY	5TU	0	-	:F.G., TR QZ <<
L	89.3	92.3	RYSP	5TO	1	-	:SPHERULITIC RHYOLITE, ABUND SPHU W/IN
L							:QZ MATRIX, TR PY & TET
L	92.3	95.3	RYSP	5TO	1	-	:INC TET BLEB +/- MIN CP, MIN DS PY
L	95.3	98.5	RYSP	4RO	1	-	:CG SPHU (up to .8cm), TR TET BLEB, TR PY
L	98.5	101.5	RYSP	4RO	2	-	:CG SPHU, TR QZ VN, TR DS PY
L	101.5	104.6	RYSP	4TR	1	-	:CG SPHU (up tp 1.4cm), TR TET & PY DS,
L							:TR CL <<
L	104.6	107.7	RYSP	5TR	1	-	:CG SPHU (up to 1.6cm), TR TET BLEB
L	107.7	109.1	RYSP	4OR	2	-	:CG SPHU (up to 2.0cm), .5% TET +/- CP
L							:BLEB & <<
L	109.1	116.5	ANDY	3AG	1	-	:F.G. W/ MIN QZ << & VN WKLY BLEACHED PT
L	116.5	119.7	RYSP	4TO	2	-	:V.C.G. SPHU (up to 2cm), POSSIBLE FLOW
L							:LAMINATIONS, CORE BROKEN UP, 1-2% TET
L							:BLEB & TR <<
L	119.7	122.8	RYSP	4TO	2	-	:AS ABOVE: 1-2% TET BLEB, 1 CB VN W/ TET
L							:& MIN CP
L	122.8	125.9	RYSP	5GO	1	-	:V.C.G. S/HM, 1% DS TET, MIN DS PY, TR CP
L	125.9	128.9	RYSP	6GO	1	-	:V.C.G. SPHU, POSSIBLE FLOW LAM, 1-2% TET
L							:BLEB +/- CP
L	128.9	132.0	RYSP	6GO	2	-	:AS ABOVE: 1-2% CP BLEB, 2% TET BLEB, TR
L							:DS PY
L	132.0	135.2	RYSP	6GO	2	-	:CP +/- TET <<, MIN CP BLEB, 1% TET BLEB,
L							:VCG SPHU
L	135.2	137.8	RYSP	6GO	2	-	:CG SPHU, MIN CL/CP/TET >>, MIN DS CP &
L							:TET
L	137.8	139.3	RYSP	4AO	3	-	:WKLY BK'D PT W/ TET & CP, TET/CP <<
L	139.3	141.9	TFAS	7YO	3	C	:C ALTN PT & FRAC, CORE BROKEN UP, NO SPHU
L	141.9	151.5	ANDY	3AG	2	-	:FG W/ QZ >>, BLEACHED & GG ZONES NEAR
L							:UPPER CN
L	151.5	154.5	TFAS	4TO	3	Q	:WKLY BX'D W/ Q INFILL, INT Q ALTN NEAR
L							:UPPER CN, CP DS W/IN Q ALTD PT, TR TET
L							:DS, CB >>, 1 QZ VN W/ 3-4% CP TET -
L							:BANDED

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L 154.5   157.5   TFAS    4TO   3     Q  :WKLY BX'D PT, Q PT W/ MIN TET & CP BLEB,
L                                        :MIN CB >> W/MIN CP
L 157.5   160.7   TFAS    4TO   3     Q  :AS ABOVE: INC CB >> & VN +/- CP BLEB,
L                                        :QZ VN W/ CP
L 160.7   163.8   TFAS    4RO   2     -  :MOD QZ & CB VN & << +/- CP & TET BLEB(1%)
L 163.8   166.9   TFLP    3RO   3     Q  :CG FRAG, RYFL & TFAS FRAG, INC QZ VN &
L                                        :PT, TR CP & TET
L 166.9   170.1   TFLP    3UR   3     Q  :CG FRAG, WK BX PT, TR DS PY, WK Q ALTN
L 170.1   173.1   TFLP    3UR   2     -  :HE MATRIX, DEC QZ +/- CB >>,CG FRAG TR PY
L 173.1   176.1   TFLP    3UR   2     -  :AS ABOVE: MIN BX FRAG
L 176.1   179.1   TFLP    3UR   2     -  :MIN CG FRAG, HE MATRIX, MIN BX PT,TR DS
L                                        :PY
L 179.1   182.1   TFLP    3UR   1     -  :INC RYFL FRAG, CG FRAG, TR QZ <<
L 182.1   185.2   TFLP    3UR   1     -  :MIN BX FRAG, ABUND RYFL FRAG, TR QZ <<
L 185.2   188.3   TFBX    3UR   1     -  :BX & LP FRAG, MAINLY RYFL FRAG
L 188.3   191.1   TFBX    3UR   1     -  :AS ABOVE: MIN CY >>, TR RY
L 191.1   194.3   TFLP    3UR   1     -  :MIN BX FRAG, MIN QZ >>
L 194.3   198.1   LPAS    4UR   1     -  :CG ASH & LP FRAG, HE MATRIX, TR QZ >>
L 198.1   201.2   TFAS    6AG   2     C  :CL MATRIX & <<, WK C ALTN, INC QZ >> & <<
C                                        :E.O.H. at 201.2
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DDH LF90CH04 STRUCTURAL LOG

	FROM (m)	TO (m)	ID	CA	AZM	WID (mm)	COMMENTS
S	3.0	15.1	SO	70			:FLOW LAMINAE ROUGHLY SUBPARALLEL
S		15.1	CN	--			:CN BTW RYFL/ANDY
S		15.8	CN	55			:CN BTW ANDY/TFLP
S		22.2	CN	85			:CN BTW TFLP.ANDY
S		23.1	CN	80			:CN BTW ANDY/TFLP
S	41.0	42.1	SO	44			:THINNLY BEDDED
S	47.6	47.7	VN?	60		115	:QZ/FE CB/MANGANESE VN OR ZONE
S		57.1	CN	35			:CN BTW TFLP/RYDY - SHARP
S		64.1	CN	--			:CN BTW RYDY/TFLP - BROKEN UP CN
S		88.6	CN	60			:CN BTW TFAS/ANDY - SHARP
S		89.3	CN	50			:CN BTW ANDY/RYSP - SHARP
S		109.1	CN	48			:CN BTW RYSP/ANDY - SHARP
S		116.5	CN	62			:CN BTW ANDY/RYSP - SHARP
S		122.1	VN	65		7	:CB VN W/ TET & MIN CP
S	137.8	137.95	BX	--			:WK BX W/ MASS TET/CP (60%) INFILL
S	139.1	139.2	BX	--			:WK BX W/ TET/CP >>
S		139.3	CN	--			:CN BTW RYSP/TFAS - NOT IN CORE
S		141.9	CN	--			:CN BTW TFAS/ANDY - GG ZONE AT CN
S	141.9	143.4	GG	--			:GG ZONE - MOD
S		151.5	CN	56			:CN BTW ANDY/TFAS - SHARP
S	154.2	154.5	VN	58			:BANDED QZ VN W/ 3-4% CP/TET BLEB
S		160.5	VN	50			

DH LF90CH04 ASSAY LOG

	FROM (m)	TO (m)	SAMP#	REC. (m)	%CU	g/tAG	g/tAU	%SB	%AS	%FE	%PB	%ZN
C	0.0	43.7	NO SAMPLES TAKEN									
A	43.7	45.8	10135		.005	5.0	.08	.001	.001	1.25	.005	.020
A	45.8	48.8	10136		.010	5.0	.05	.010	.001	1.09	.010	.020
A	48.8	52.2	10137		.010	2.0	.05	.010	.001	1.06	.010	.030
C	52.2	54.1	NO SAMPLES TAKEN									
A	54.1	57.1	10138		.010	2.0	.05	.005	.001	1.14	.010	.040
C	57.1	64.1	NO SAMPLES TAKEN									
A	64.1	66.9	10139		.020	3.0	.03	.010	.001	1.11	.020	.060
C	66.9	69.8	NO SAMPLES TAKEN									
A	69.8	72.8	10140		.010	2.0	.06	.010	.005	1.65	.005	.040
A	72.8	75.8	10141		.005	2.0	.06	.010	.001	1.21	.005	.010
A	75.8	78.8	10142		.010	2.0	.04	.010	.001	1.38	.005	.020
C	78.8	81.9	NO SAMPLES TAKEN									
A	81.9	85.0	10143		.020	2.0	.05	.010	.001	1.22	.010	.040
A	85.0	88.6	10144		.020	3.0	.05	.010	.005	1.42	.005	.030
C	88.6	92.3	NO SAMPLES TAKEN									
A	92.3	95.3	10145		.010	3.0	.05	.010	.001	1.24	.005	.040
C	95.3	107.7	NO SAMPLES TAKEN									
A	107.7	109.1	10146		.020	7.0	.06	.010	.001	1.72	.010	.220
C	109.1	116.5	NO SAMPLES TAKEN									
A	116.5	119.7	10147		.080	8.0	.03	.010	.005	2.17	.040	.720
A	119.7	122.8	10148		.010	2.0	.03	.010	.001	1.62	.020	.270
A	122.8	125.9	10149		.010	2.0	.05	.010	.001	1.29	.010	.120
A	125.9	128.9	10150		.100	4.0	.05	.001	.001	1.76	.030	.220
A	128.9	132.0	10151		.440	8.0	.05	.005	.001	1.99	.060	.270
A	132.0	135.2	10152		.190	0.1	.04	.001	.001	1.45	.030	.130
A	135.2	137.8	10153		.080	0.1	.03	.001	.001	1.26	.020	.160
A	137.8	139.3	10154		.290	27.0	.03	.001	.001	2.66	.090	1.600
C	139.3	151.5	NO SAMPLES TAKEN									
A	151.5	154.1	10155		.110	3.0	.28	.010	.005	2.40	.020	.190
C	154.1	154.5	10160		.330	17.0	.16	.010	.060	1.90	.111	1.190
A	154.5	157.5	10156		.030	1.0	.14	.005	.001	3.20	.030	.100
A	157.5	160.7	10157		.040	0.1	.07	.010	.001	3.01	.020	.100
A	160.7	163.8	10158		.020	0.1	.09	.001	.001	3.62	.005	.040
A	163.8	166.9	10159		.001	0.1	.05	.005	.001	3.63	.001	.030
C	166.9	201.2	NO SAMPLES TAKEN									

DDH LF90CH05 SURVEY LOG

H DDHID : LF90CH05
H LOGGED BY : DJH
H DATE : OCT 90
H CORE SIZE : BQ
H PROPERTY : LEFTY
H GRID AZM. : 000
H TOT LGTH : 140.2

	FROM (m)	TO (m)	AZM.	V-ANG	NORTHING (m)	EASTING (m)	ELEVATION (m)
R	0.0	140.2	115.0	-45.0	1233.0	1188.0	1377.6
R		140.2	115.0	-39.0			

DDH LF90CH05 LITHOLOGIC LOG

	FROM (m)	TO (m)	LITH	LC	IF	ALT	COMMENTS
L	0.0	3.7	OVBN				:TRICONED - NO CORE
L	3.7	6.1	RYFL	6TU	2	-	:MINOR << W/ QZ +/- TT? ; <1% DS PY; FLOW
L							:BONDING VERY IRREGULAR & CONTORTED
L	6.1	9.1	RYFL	6TU	2	-	:AS ABOVE 3.7-6.1
L	9.1	11.1	RYFL	6TU	2	-	:AS ABOVE 3.7-6.1; MINOR >> W/ CL & CY
L	11.1	13.7	RYFL	7TU	3	MS	:WEAK MS ALTN, LOC WK OXIDATION, <1% PY as
L							:DS, < .5% TT? as SP
L	13.7	16.2	RYFL	4AU	5	-	:QZ IN BXIA MT, < 1% PY as DS, TO TFLP /OC
L	16.2	18.3	ANDS	8AG	1	CY	:DYKE? , CNTS NOT VISABLE (BROKEN CORE &
L							:GOUGE), CY GOUGE 0.7m, NO PY, TR TT?
L	18.3	20.1	TFLP	5RU	1	QZ	:FELSIC FRAGS IN FG RED BROWN SILICIOUS
L							:MATRIX, QZ <<, .2M BROKEN CORE & GOUGE
L							:AT EOI
L	20.1	21.1	TFLP	5AG	8	QZ	:MINOR RED FRAGS, 30% QZ AS MT, 3% CP AS
L							:PT, TR BN SPECKS, 1% TT? , 3% PY
L	21.1	23.1	TFAS	6GA	2	MS	:MIN IRREG. QZ VV W/ TR CP, MINOR SP TEXT,
L							:TR TT? AS SPECKS
L	23.1	23.6	TFAS	5AG	8	QZ	:AS ABOVE 20.1-21.1m, .5% BN AS SPECKS,
L							:TR CP, CB AS VV
L	23.6	23.9	TFLP	5GR	3	QZ	:BROKEN CORE: APPEARS TO BE TRANSITION
L							:FROM ALTERED TO UNALTERED TFLP - SOME OF
L							:THE RHYOLITIC TFLP IS PROBABLY SILICIFIED
L							:TFLP (ANDESITIC)
L	23.9	43.7	TFLP	4A	0	-	:RED BROWN LAPILLI LOC. , MINOR TFAS &
L							:WELDED TUFF INTERLEVED, MINOR CB AS << IN
L							:AREAS OF WK FRACTURING, ANDSITIC COMP
L	43.7	49.6	TFLP	5UR	1	-	:HEMATITTIC, ANDESITIC LAPILLI TUFF W/ 20%
L							:ANGULAR LAPILLI TO 10 mm dia in an
L							:APHANITIC TO F.G. DUST/ASH MATRIX, QZ &
L							:CB AS <<

L	49.6	51.4	VLSS	5RU	1	-	:W/ 20% VLST INTERLEVED, WELL BEDDED, MIN
L							:QZ & CB AS <<, LOCALLY LAMINATED
L	51.4	54.6	TFAS	4RU	1	-	:MASSIVE ASH TUFF (HEMATITIC), QZ & CB <<
L	54.6	60.9	ANFL	5RU	1	-	:A* TEXT W/ QZ & CB INFILLINGS, HEMATITIC
L							:, FG MATRIX, BECOMING 4GA TOWARD EOI
L	60.9	70.5	ANDS	4GA	0	-	:SLIGHTLY REDDISH, 10% PL PHENOS, PROBABLE
L							:FLOW OR XT/TUFF, .2m P ATLN W/ QZ IN >>
L							:(TR GREY SDE?))
L	70.5	83.8	ANFL	4UR	0	-	:15% AMYGDS W/ QZ/CB, SOME AMYGDS APPEAR
L							:FLATENED OR OTHERWISE DISTORTED, BECOMING
L							:GREENER & FEWER AMYGDS TOWORDS EOI (ie-
L							:GRADATIONAL LOWER CNT
L	83.8	108.0	ANFL	4AG	1	-	:2% PL PHENOS, CB IN <<, BARREN QZ & CB
L							:VV's IN LAST 1.5m, GRADITIONAL LOWER CNT
L	108.0	119.9	TFAS	4UR	1	-	:VARICOLORED COARSE ASH FRACS IN A FINE
L							:1GRAINED HEMATITIC MATRIX, CL IN <<, QZ
L							:& CB IN <<, WEAK BEDDING
L	119.9	121.0	TFLP	4UR	1	-	:SIMILAR TO ABOVE INTERVAL W/O MATRIX, WK
L							:BEDDED, QZ & CB IN <<
L	121.0	132.0	TFAS	4AR	1	-	:PATCHES OF ASH SIZED BROKEN XT/S, VERY
L							:DISTINTIVE, QZ & CB IN <<, LOWER CNT GRAD
L	132.0	140.2	TFAS	4A	1	-	:QZ & CB IN PT & << & >>, TR HS IN PT,
L							:MINOR
C							:E.O.H. at 140.2

DDH LF90CH05 STRUCTURAL LOG

	FROM (m)	TO (m)	ID	CA	AZM	WID (mm)	COMMENTS
S		5.0	FB	42			:V. IRREG
S		12.5	FB	58			:V. IRREG
S	16.2	17.0	GG	--			:GOUGE & BROKEN CORE AT TOP OF DYKE
S		18.9	GG	--		10	:FAULT?
S		20.0	GG	--		10	:AT UPPER CNT. OF MINERALIZED BXIA ZONE
S	23.6	23.8	GG	--		20	:GOUGE & BROKEN CORE AT LOWER CNT. OF 2nd
S							:MINERALIZED BXIA
S		50.4	SO	41			:
R							:CORE VERY COMPETENT W/O BROKEN CORE OR
S							:GOUGE ZONE FROM 23.8m
S		76.9	CN	30			:3cm WIDE BAND OF F.G. ANDESITE W/O A*
S							:TEXT
S		77.0	BN	30			:ELONGATION OF A*s
S		82.8	BN	30			:AS ABOVE

DDH LF90CH05 ASSAY LOG

	FROM (m)	TO (m)	SAMP#	REC. (m)	%CU	g/tAG	g/tAU	%SB	%AS	%FE	%PB	%ZN
C	0.0	3.7	NO SAMPLES TAKEN									
A	3.7	6.1	10161		.001	0.1	.05	.001	.001	1.68	.005	.070
A	6.1	9.1	10162		.010	2.0	.05	.010	.001	1.59	.010	.070
A	9.1	11.1	10163		.010	0.1	.04	.010	.010	1.79	.005	.030
A	11.1	13.7	10164		.010	0.1	.04	.001	.010	1.75	.020	.070
A	13.7	16.2	10165		.010	0.1	.04	.010	.001	2.40	.040	.150
A	16.2	18.3	10166		.020	1.0	.04	.010	.005	3.92	.005	.090
A	18.3	20.1	10167		.120	7.0	.06	.010	.001	2.75	.030	.490
A	20.1	21.1	10168		1.490	83.0	.45	.010	.001	6.21	.400	2.130
A	21.1	23.1	10169		.270	16.0	.10	.010	.005	5.05	.110	.570
A	23.1	23.6	10170		.510	81.0	.97	.010	.010	4.52	.020	.790
A	23.6	23.9	10171		.040	2.0	.08	.010	.001	5.53	.001	.080
C	23.9	140.2	NO SAMPLES TAKEN									

DDH LF90CH06 SURVEY LOG

H DDHID : LF90CH046
H LOGGED BY : MLA
H DATE : NOV 90
H CORE SIZE : BQ
H PROPERTY : LEFTY
H GRID AZM. : 000
H TOT LGTH : 148.7

	FROM (m)	TO (m)	AZM.	V-ANG	NORTHING (m)	EASTING (m)	ELEVATION (m)
R	0.0	148.7	115.0	-45.0	1300.0	1058.0	1414.2

DDH LF90CH06 LITHOLOGIC LOG

	FROM (m)	TO (m)	LITH	LC	IF	ALT	COMMENTS
L	0.0	2.1	OVBN				:TRICONED - NO CORE
L	2.1	3.1	TFAS	5UO	1	-	:RHY TFAS, BROKEN UP. MIN CL SP & <<
L	3.1	6.2	ANDY	6AG	1	-	:BROKEN UP, FG, CL SP, MIN QZ <<
L	6.2	8.4	RYFL	4UO	3	-	:SEV QZ >>, WKLY BX'D PT, POORLY DEV FLOW :LAM
L	8.4	16.1	RYFL	4UO	2	-	:MOD DEV FLOW LAM, MIN FRAG, DEC QZ >>, :BROKEN UP
L	16.1	17.7	RYFL	5TO	2	-	:WELL DEV WAVY FLM LAM, BROKEN UP, RUSTY :FRACT
L	17.7	24.9	RYFL	4TO	2	-	:MOD FLOW LAM, COM FELD XT?, CL <<, TR DS :PY
L	24.9	35.7	RYFL	5TO	2	-	:POSSIBLY WELDED TF, POOR LAM, MORE VISC :FLOW?, TR CL <<
L	35.7	36.6	RYFL	6TO	1	-	:WELL DEV FLOW LAM, TR QZ <<
L	36.6	38.6	RYFL	4AU	1	-	:MOD FLOW LAM, COM MG KSPAR XT, TR QZ <<
L	38.6	40.8	RYFL	4RU	1	-	:HEM/SILICA MATRIX, MOD LAM, SEV KSPAR & :QZ XT
L	40.8	46.9	RYFL	4TU	2	-	:WELL DEV FLOW LAM, MIN EP <<, KSPAR XT, :TR QZ XT
L	46.9	48.9	RYFL	4TU	1	-	:POOR FLOW LAM, 15% KSPAR XT, TR RUSTY :FRAC
L	48.9	56.4	RYFL	4TU	1	-	:MOD FLOW LAM, 10% KSPAR XT, TR QZ <<
L	56.4	64.1	RYFL	6OU	2	-	:WELL DEV FLOW LAM, 10% KSPAR XT, MIN CL :<< , QZ VN & >>
L	64.1	68.8	RYFL	3AU	1	-	:WKLY LAM, DARK Q MATRIX, 5% KSPAR & MIN :PLAG XT, TR QZ <<
L	68.8	76.0	RYAF	4OA	2	CB	:WK CB +/- FE ALTN OF MATRIX, FELSIC? :FRAG, POSSIBLY ALTD FLOW - RHYOLITIC ASH :FLOW?
L	76.0	78.5	RYAF	6TD	2	-	:RHY ASH FLOW?, PT OF FLOW LAM W/ IRREG :FRAG, TR QZ <<, WKLY BX'D PT
L	78.5	85.0	RYAF	5OU	2	-	:CG FRAG +/- PLAG P*, PT OF FLOW LAM,

L							:KSPAR XT, QZ +/- FE CB <<
L	85.0	88.2	RYAF	6OT	3	-	:AS ABOVE : SEV CL +/- EP <<, WKLY BX'D PT
L	88.2	90.1	RYAF	6OT	2	-	:WK FLOW LAM W/ SEV LAP SIZED FRAG
L	90.1	96.4	RYFL	6OR	2	-	:WELL DEV FLOW LAM, ABUND KSPAR XT, CL <<,
L							:CB VN, TR SL <<
L	96.4	97.6	LADY	7YW	1	MS?	:WK MS ALTN?, F.G. W/ CL << & CLUSTERS
L	97.6	99.2	TFLP	5TR	3	-	:WKLY BX'D, MIN GG & CLAY INFILL, HEM/Q
L							:MATRIX & FRAG, .5% CP BLEB W/IN QZ/CB >>
L	99.2	102.2	TFLP	5TR	2	-	:CG FRAG - WELDED? -SLIGHTLY ELONGATED AT
L							:60 DEGREES, TR CP BLEB
L	102.2	106.3	TFLP	5UR	2	-	:CG ELONGATED FRAG AT 64 DEGREES, MIN CY
L							ALTD VN, TR QZ >>, TR PY
L	106.3	110.1	TFLP	5UR	1	-	:CG FRAG,MIN SPHU FRAG, WKLY ELONGATED 65
L							DEGREES, TR QZ >>
L	110.1	110.6	ANDY	6WG	1	-	:SMALL FG DYKE, SHARP CN, 1 QZ >>
L	110.6	114.4	TFBX	6GR	2	-	:CG BX FRAG, HEM & CL +/- PLAG P* FRAG,
L							:QZ >> & <<
L	114.4	117.5	RYSP	5OR	2	-	:MG SPHU (40%), FG Q /KSPAR MATRIX TR TT &
L							:CP BLEB
L	117.5	119.5	RYSP	5TO	1	-	:35-45% MG DIFFUSE SPHU, TR QZ <<, MIN QZ
L							:P*
L	119.5	121.6	RYSP	4TO	3	-	:DIFFUSE MG SPHU, QZ >> & <<, MIN CP & TT
L							:BLEB & <<
L	121.6	122.3	ANDY	5AG	1	-	:FG CL DYKE - BLEACHED NEAR CN'S
L	122.3	125.3	RYSP	6TO	3	-	:MG DIFFUSE SPHU, SEV QZ << & >>, 1% TT
L							:BLEB & <<, TR CP BLEB
L	125.3	127.8	RYSP	6TO	3	-	:AS ABOVE, INC TT <<
L	127.8	129.7	ANDY	4AG	1	-	:FG CL DYKE, MMIN QZ/CB VN & >>, BLEACHED
L							:NEAR LOWER CN
L	129.7	132.6	RYSP	6TO	2	-	:FG-MG DIFFUSE SPHU, QZ/CB >> & <<, .5% TT
L							:BLEB & <<
L	132.6	135.8	RYSP	6TO	2	-	:AS ABOVE : DEC TT BLEB
L	135.8	139.5	RYSP	5TO	2	-	:FG-MG DIFFUSE SPHU, MIN QZ <<, TR TT BLEB
L	139.5	141.4	ANDY	3AG	1	-	:FG CL DYKE, MIN CB +/- QZ >> & <<
L	141.4	143.5	RYSP	6TO	1	-	:CG DISTINCT SPHU, TR QZ <<, TR TT BLEB
L	143.5	147.4	RYSP	6TO	1	-	:FG DIFFUSE SPHU - 35%, TR QZ >> & <<, TR
L							:TT BLEB
L	147.4	148.7	ANDY	3AG	1	-	:FG CL DYKE, TR QZ +/- CB <<
C							:E.O.H. AT 148.7m

DDH LF90CH06 STRUCTURAL LOG

	FROM (m)	TO (m)	ID	CA	AZM	WID (mm)	COMMENTS
S		3.1	CN	--			:CN BTW TFAS/ANDY - NOT IN CORE
S		6.2	CN	--			:CN BTW ANDY.RYFL - NOT IN CORE
S		68.8	CN	--			:CN BTW RYFL/TFLP - AMBIGUOUS CN
S	78.2	78.5	BX	--			:WKLY BX'DLRYAF
S		90.1	CN	81			:CN BTW RYAF/RYFL - SHARP & IRREGULAR
S	94.5	95.1	VN	04		12	:CB VN +/- MIN CL
S		96.4	CN	88			:CN BTW RYFL/LADY
S		97.6	CN	34			:CN BTW LADY/TFLP W/ GOUGE
S		110.1	CN	26			:CN BTW TFLP/ANDY - SHARP
S		110.6	CN	38			:CN BTW ANDY/TFLP - SHARP
S		114.4	CN	30			:CN BTW TFBX/RYSP - SHARP
S		121.6	CN	42			:CN BTW RYSP/ANDY - SHARP
S		122.3	CN	38			:CN BTW ANDY/RYSP - SHARP
S		127.8	CN	--			:CB BTW RYSP/ANDY - NOT IN CORE
S		129.7	CN	37			:CN ANDY/RYSP - SHARP W/ GG
S		139.5	CN	44			:CN BTW RYSP/ANDY - SHARP
S		141.4	CN	35			:CN BTW ANDY/RYSP - SHARP W/ MIN BX
S		147.4	CN	48			:CN BTW RYSP/ANDY - SHARP

DDH LF90CH06 ASSAY LOG

	FROM (m)	TO (m)	SAMP#	REC. (m)	%CU	g/tAG	g/tAU	%SB	%AS	%FE	%PB	%ZN
C	0.0	90.1	NO SAMPLES TAKEN									
A	90.1	93.2	10175		.005	1.0	.02	.005	.001	1.10	.005	.010
A	93.2	96.4	10176		.040	2.0	.02	.005	.005	1.30	.005	.020
C	96.4	97.6	NO SAMPLES TAKEN									
A	97.6	99.2	10177		.070	3.0	.03	.005	.005	3.10	.005	.030
A	99.2	102.2	10178		.030	2.0	.03	.005	.005	1.60	.005	.040
C	102.2	114.4	NO SAMPLES TAKEN									
A	114.4	117.5	10179		.010	1.0	.02	.005	.005	0.90	.005	.030
C	117.5	119.5	NO SAMPLES TAKEN									
A	119.5	121.6	10180		.020	9.0	.03	.005	.005	0.90	.010	.160
C	121.6	122.3	NO SAMPLES TAKEN									
A	122.3	125.3	10181		.005	2.0	.02	.005	.005	1.00	.010	.140
A	125.3	127.8	10182		.010	3.0	.02	.005	.005	1.00	.020	.070
C	127.8	129.7	NO SAMPLES TAKEN									
A	129.7	132.6	10183		.005	2.0	.02	.010	.005	1.10	.005	.050
A	132.6	135.8	10184		.005	2.0	.03	.005	.005	1.20	.005	.070
C	135.8	148.7	NO SAMPLES TAKEN									

DDH LF90CH07 SURVEY LOG

H DDHID : LF90CH07
H LOGGED BY : MLA
H DATE : NOV 90
H CORE SIZE : BQ
H PROPERTY : LEFTY
H GRID AZM. : 000
H TOT LGTH : 155.5

	FROM (m)	TO (m)	AZM.	V-ANG	NORTHING (m)	EASTING (m)	ELEVATION (m)
R	0.0	155.0	115.0	-45.0	1412.0	1178.0	1371.5

DDH LF90CH07 LITHOLOGIC LOG

	FROM (m)	TO (m)	LITH	LC	IF	ALT	COMMENTS
L	0.0	5.2	OVBN				:TRICONED - NO CORE
L	5.2	6.1	ANDY	7AG	0	-	:F.G. DYKE, BROKEN UP
L	6.1	11.5	RYFL	5TO	2	C	:MOD PERV C ALTN, STR C ALTN ALONG FRACT,
L							:BROKEN UP MOD FLOW LAM, MIN QZ >> & <<,
L							:TR PY
L	11.5	14.6	RYFL	5TO	2	C	:AS ABOVE: ABUND KSPAR XT
L	14.6	22.5	RYFL	4TO	2	-	:FLOW LAM, KSPAR XT, CL <<, TR TT <<, MIN
L							:QZ >> & <<
L	22.5	24.7	RYFL	4YO	5	-	:WKLY BX'X W/ QZ INFILL, 1-2% TT << +/-
L							:TR CP
L	24.7	27.8	ANDY	5GO	1	C	:C & POTASSIC? ALTD ANDY, CL NEAR CN,
L							:PLAG P* - POSSIBLY 2 DIFFERENT DYKES
L	27.8	31.2	RYAF	4UO	2	-	:RHYOLITIC ASH FLOW? IRREG FRAG, PTY FLOW
L							:LAM, PLAG P*
L	31.2	37.6	RYAF	4RU	2	-	:HE/Q MATRIX, 15% KSPAR XT, CL <<, MIN LAM
L							:PT
L	37.6	42.7	RYAF	5TO	2	-	:Q MATRIX, IRREG FRAG, WK FLOW LAM, MIN
L							:CL, TR QZ >>
L	42.7	44.7	RYAF	6OU	3	-	:CORE BROKEN UP, INC CL <<, MIN KSPAR XT,
L							:MIN FLOW LAM, IRR FRAG
L	44.7	49.9	RYAF	4TO	2	-	:IRREG FRAG, 15-20% KSPAR XT, TR FLOW LAM,
L							:TR DS TT
L	49.9	55.8	RYFL	5OR	2	-	:WELL DEV FLOW LAM, GRADES IN & OUT OF THE
L							:MATRIX PT'S, TR QZ <<, 5-8% KSPAR XT
L	55.8	59.6	RYFL	5TO	2	-	:STR FLOW LAM, NO HE PT, 5% KSPAR XT,
L							:TR TT BLEB
L	59.6	66.4	RYAF	5TO	2	-	:IRREG FRAG, 4-5% KSPAR XT, MIN FLOW LAM,
L							:TR TT <<, TR DS PY
L	66.4	67.2	ANDY	6AG	1	-	:FG DYKE, MIN QZ <<
L	67.2	69.2	TFLP	4RU	2	Q	:BX'D AT UPPER CN, HE/Q MATRIX

L							:(INTERMEDIATE COMP), 3% PLAG XT, HE &
L							:RHY FRAG
L	69.2	71.6	ANDY	5AG	1	-	:F.G. CL DYKE, BLEACHED AT LOWER CN
L	71.6	75.2	TFLP	6RO	3	Q	:HE/Q MATRIX, WK Q ALTN, RYFL & HE FRAG,
L							:QZ VN & >> (SILICIFIED ANDESITE?)
L	75.2	77.8	TFLP	4RU	2	-	:HE MATRIX, HE FRAG, 5% PLAG XT, TR QZ PT
L	77.8	79.8	TFLP	4RU	3	-	:AS ABOVE: SEV CL +/- CB >>
L	79.8	82.2	TFLP	4RU	1	-	:CG HE FRAG, 3-4% PLAG XT, TR QZ <<
L	82.2	84.5	TFLP	6RT	3	C	:WK CY ALTN, GG ZONE 82.2-82.7m, GRAD CN
L	84.5	94.1	TFLP	4RU	1	-	:MG HE FRAG, MIN CB +/- CY >>, 5% PLAG XT
L	94.1	96.1	TFLP	4RU	3	-	:AS ABOVE: 1 CB VN II TCA
L	96.1	114.3	TFLP	4RU	1	-	:MG HE FRAG, HE MATRIX, MIN CB >>, 3-4%
L							:PLAG XT
L	114.3	119.7	TFLP	5RU	2	Q	:WK - MOD Q ALTN, FRAG FLATENED - WKLY
L							:WELDED, MIN QZ >>, 3-4% PLAG XT
L	119.7	121.9	TFLP	6RO	3	Q	:MOD Q ALTN, INC QZ VN & >>, WELDED HE
L							:FRAG, PLAG XT
L	121.9	124.0	TFLP	4RU	1	-	:HE MATRIX & MG FRAG, WKLY WELDED, TR QZ/
L							:CB <<
L	124.0	140.5	TFLP	5RU	2	Q	:WK-MOD Q ALTN, HE/Q MATRIX, HE FRAG,
L							:WKLY WELDED
L	140.5	144.5	TFLP	5RO	3	Q	:MOD Q ALTN, INC QZ/CB VN & >>, NO SDE,
L							:WKLY WELDED
L	144.5	144.7	QZVN	7AW	0	Q	:LAYERED QZ VN W/ 4% CP & 5-6% TT
L	144.7	145.9	TFLP	5RO	3	Q	:MOD Q, SEV QZ/CB VN & >>, 3-4% PLAG XT,
L							:NO SDE
L	145.9	149.3	ANDY	4WG	3	-	:FG CL MATRIX, SEV QZ/CB >> & <<, BLEACHED
L							:CN'S
L	149.3	150.5	TFAS	6RO	4	Q	:BX'X W/ QZ INFILL, SEV QZ >> & <<, NO SDE
L	150.5	151.2	ANDY	5AG	2	-	:FG CL MATRIX, TR QZ/CB <<
L	151.2	155.5	TFAS	4RO	3	Q	:WKLY BX'D, HE/Q MATRIX, WKLY WELDED, NO
L							:SDE, QZ VN & >>
C							:E.O.H. AT 155.5 m

DDH LF90CH07 STRUCTURAL LOG

FROM (m)	TO (m)	ID	CA	AZM	WID (mm)	COMMENTS
S	6.1	CN	--			:CN BTW ANDY/RYFL - NOT IN CORE
S	24.7	CN	55			:CN BTW RYFL/ANDY - SHARP
S	27.8	CN	84			:CN BTW ANDY/RYAF ?
S	49.9	CN	--			:CN BTW RYAF/RYFL - IRREGULAR
S	59.6	CN	25			:CN BTW RYFL/RYAF - SHARP W/ QZ VN AT CN
S	66.4	CN	--			:CN BTW RYAF/ANDY - CN BROKEN UP
S	67.2	CN	--			:CN BTW ANDY/TFLP - CN BROKEN UP
S	69.2	CN	26			:CN BTW TFLP/ANDY - SHARP
S	71.6	CN	64			:CN BTW ANDY/TFLP - SHARP W/ ALTN
S	82.2	82.7	GG	--		:CY GG ZONE W/IN TFLP

S	95.5	96.1	VN	03	15	:CB VN - NO SDE
S	144.5	144.7	VN	51		:QZ VN W/ CP & TT
S		145.9	CN	57		:CN BTW TFLP/ANDY
S		149.3	CN	42		:CN BTW ANDT/TFAS
S		150.5	CN	56		:CN BTE TFAS/ANDY
S		151.2	CN	54		:CN BTW ANDY/TFAS

DDH LF90CH07 ASSAY LOG

	FROM (m)	TO (m)	SAMP#	REC. (m)	%CU	g/tAG	g/tAU	%SB	%AS	%FE	%PB	%ZN
C	0.0	22.5	NO SAMPLES TAKEN									
A	22.5	24.7	10185		.230	8.0	.10	.020	.010	3.30	.030	1.170
C	24.7	144.5	NO SAMPLES TAKEN									
A	144.5	144.7	10186		.170	6.0	.10	.020	.005	1.80	.005	4.080
C	144.7	149.3	NO SAMPLES TAKEN									
A	149.3	150.5	10187		.030	6.0	.20	.010	.005	3.20	.005	.310
C	150.5	151.2	NO SAMPLES TAKEN									
A	151.2	151.8	10188		.001	2.0	.05	.010	.005	1.90	.001	.020
C	151.8	155.5	NO SAMPLES TAKEN									

APPENDIX II

EQUITY SILVER MINES LABORATORY

SAMPLE PREPARATION AND ANALYTICAL PROCEDURE

i) rock preparation

- samples are hot air dried and pulverized to -100 mesh

ii) analytical procedure for Cu, Zn, Pb, As, Sb, Ag, Fe

- 1 gram of pulverized material is dissolved in 5 ml of nitric acid
- solution is boiled for 15 minutes
- 20 ml of 2% tartaric and 10 ml hydrochloric acid are added
- solution is heated gently for 10 minutes
- solution is cooled and allowed to settle for 15 minutes
- analysis by Atomic Absorption

iii) analytical procedure for Au

- fire assay 25.0 gram sample with 130 grams of flux and 2 mg silver
- to prill from fire assay add 2 ml 1:1 nitric acid
- heat gently
- add 3 ml conc. hydrochloric acid
- cool solution to room temperature
- analysis by Atomic Absorption

NOTE: 1990 EQUITY SOIL GRID

DATA PLOTTED ON THIS MAP:
DIRECTORY: /EQUITY_OD/USR/GL-DDH

+ POINTS:	FIELD	FILE
	DH	LEFTYCOLL
	DH	LEFTYTRACK

0 100 200 300
METRES

EQUITY SILVER MINES LTD.
LEFTY PROPERTY
1990 DRILL HOLE LOCATIONS
FIGURE 3

DRAWN EXP
DATE 91:02:22
SCALE 1:2500
NO. PLATE

1D POSTS 200mE
ANT I 4E, 2N
BEAR I 0E, 2N

600 800 1000 1200 1400

1400 1200 1000 800 600

D D'
C C'
B B'
A A'

LF90DH02
LF90DH05
LF90DH06
LF90DH04
LF90DH03
LF90DH01

NOTE: 1990 EQUITY SOIL GRID

B.L.

limit of mapping

LEGEND

- andesitic ash tuff
- siliceous volcanic (altered)
- rhyolitic flow
- intrusive (monzonite?)
- fracture
- bedding or flow banding
- quartz vein
- foliation
- contact
- fault

quartz sericite alteration

,8084 sample number

MA = malachite
AZ = azurite
CP = chalcopyrite
SL = sphalerite
BN = bornite
TT = tetrahedrite
PY = pyrite

DATA PLOTTED ON THIS MAP:
DIRECTORY: /EQUITY_OD/USR/DATA

	FIELD	FILE
+ POINTS:		LEFTY.90SOIL
	CONT	LEFCON

N

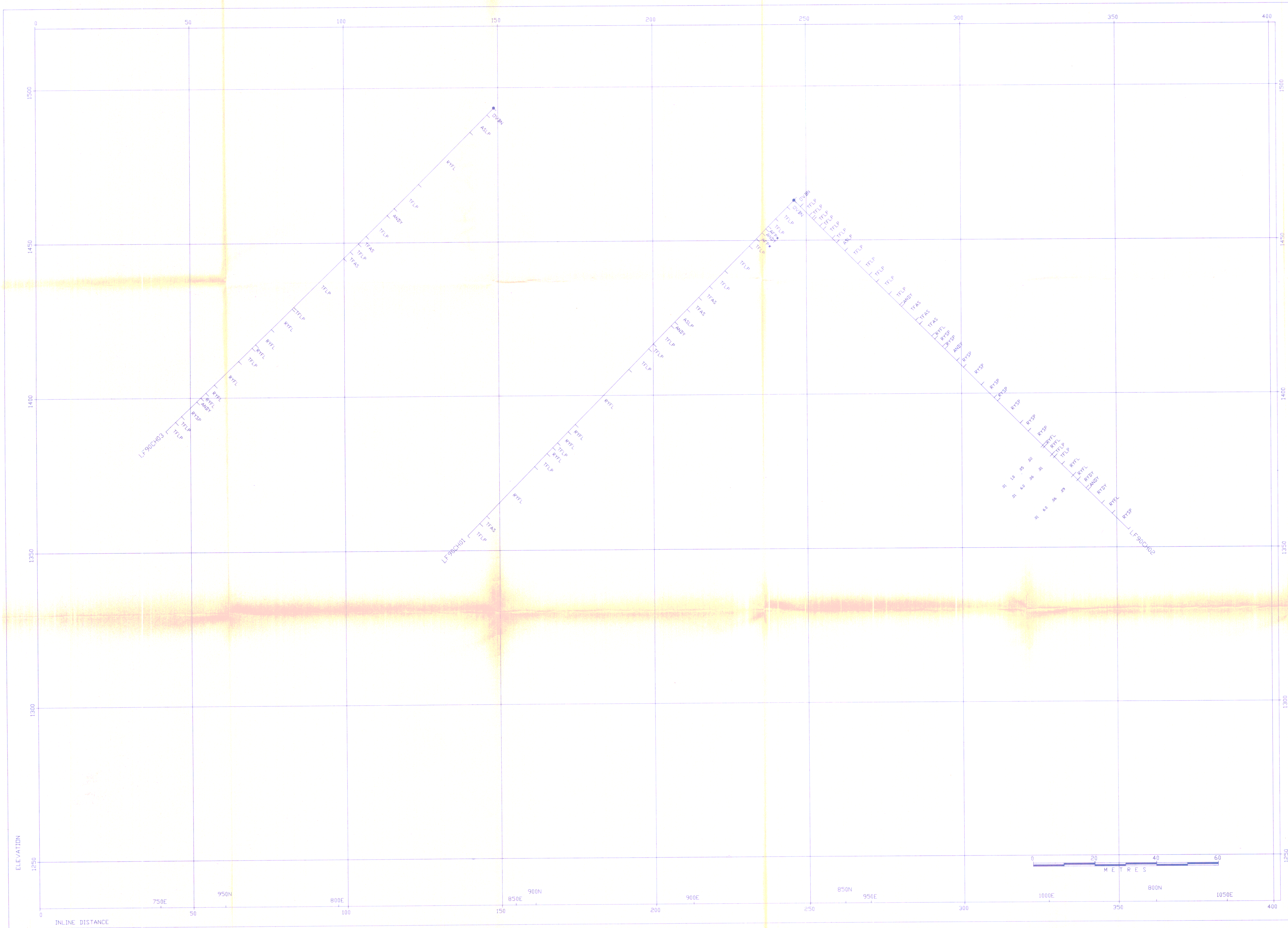
0 200 400 600
METRES

GEOLOGICAL BRANCH
ASSESSMENT REPORT
21,925

EQUITY SILVER MINES LTD.

DRAWN EXP	FIGURE 4
DATE 90:12:11	LEFTY GEOLOGY
SCALE 1:5000	
	NO. PLATE

FIGURE 5
LEFTY PROPERTY
CROSS SECTION A-A



LEGEND

HAZELTON VOLCANICS

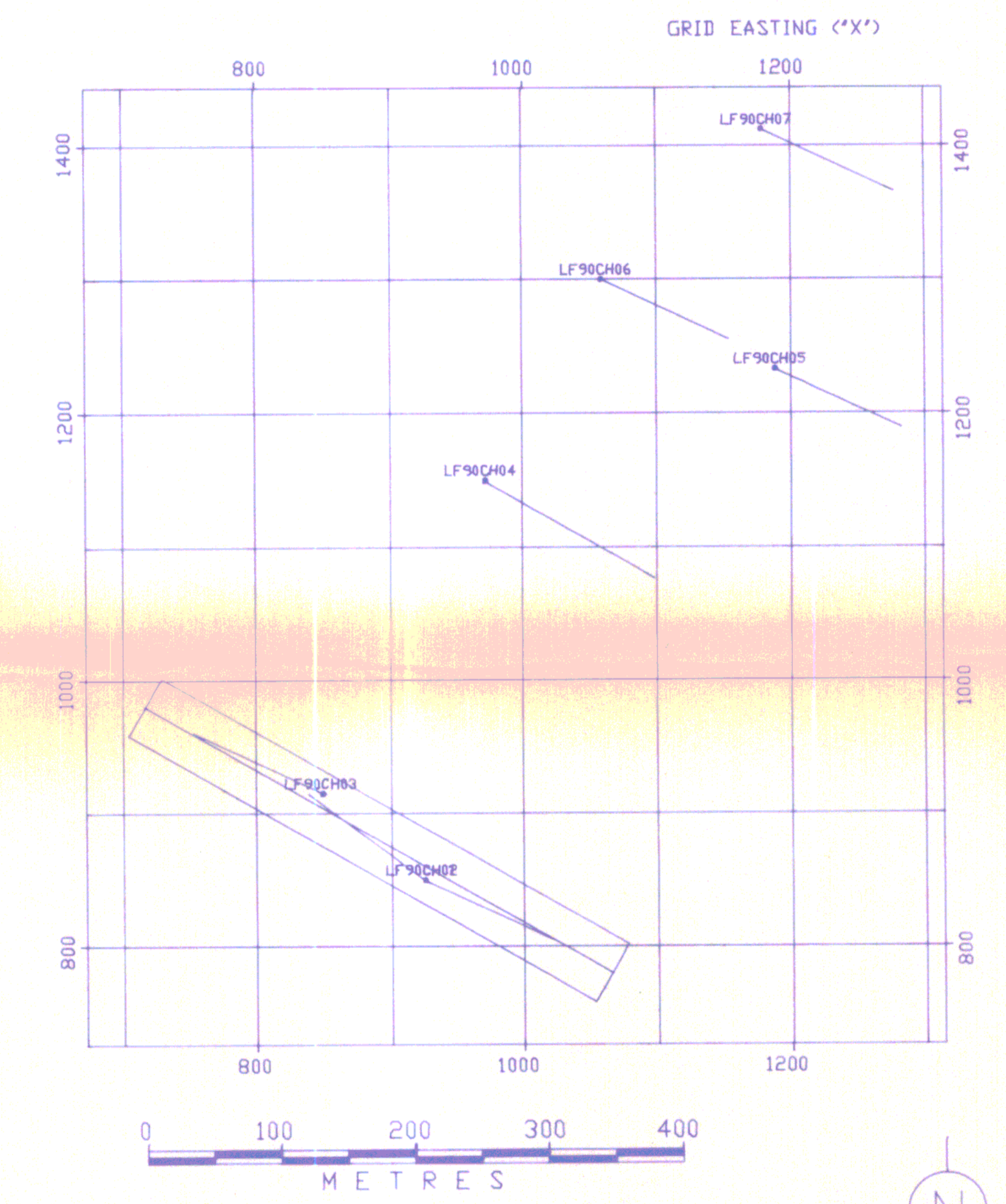
TFLP	LAPILLI TUFF
TFAS	ASH TUFF
TFBX	BRECCIA TUFF
ASLP	ASH-LAPILLI TUFF
ANFL	AMYGDALOIDAL ANDESITE
ANDS	PORPHYRITIC ANDESITE
VLSS	VOLCANIC SANDSTONE
RYFL	FLOW BANDED RHYOLITE
RYSP	SPHERULITIC RHYOLITE
AFP*	ALKALI FELDSPAR PORPHYRY
RYAF	RHYOLITE FLOW BRECCIA

INTRUSIVE ROCKS

ANDY	ANDESITE DYKE
RYDY	RHYOLITE DYKE
LADY	LATITE DYKE

ASSAYS

%COPPER, PPM SILVER, PPM GOLD, %ZINC



LOCATION OF THIS CROSS-SECTION

XL	YL	XR	YR
716.	980.	1065.	780.

WIDTH	ZT	ZB
50.	1494.	1261.

LOOKING NE

DIRECTORY: /EQUITY_OD/USR/GL-DDH
DATA FILE: GL-LEFTY

POSTED DATA

ASSAYS	DH	ROCK TYPE
PCT CU		PGI
PPM AG		
PPM AU		

EQUITY SILVER MINES LTD.

DRAWN EXP	FIGURE 5
DATE 91:12:18	LEFTY PROPERTY
SCALE 1:500	CROSS SECTION A-A
NO.	PLATE

AR 21925

ELEVATION

INLINE DISTANCE

1250 1300 1350 1400 1450 1500

0 50 100 150 200 250 300 350 400

1200N 1300E 950E 1150N 1000E 200 1100E 1050N 1150E 1200E

DIVBN KYFL KYFL ANDY TFLP ANDY TFLP TFLP TFLP TFBX TFLP TFAS TFLP TFLP KYDY TFLP TFLP TFLP TFLP TFLP ANDY KYSP KYSP KYSP KYSP KYSP ANDY KYSP KYSP KYSP KYSP KYSP KYSP TFAS TFAS TFLP TFLP TFLP TFLP TFBX TFLP TFAS

POH06-17

0 20 40 60 METRES

LOCATION OF THIS CROSS-SECTION
XL 853. 1217. 1201. 1018. YR
WIDTH 50. 1494. 1261. ZB
LOOKING NE

0 100 200 300 400 METRES

800 1000 1200 1400

GRID NORTHING (*Y*)

GRID EASTING (*X*)

DIRECTORY /EQUITY_GD/USR/GL-DDH
DATA FILE: GL-LEFTY

PLOTTED DATA
ASSAYS DH ROCK TYPE
PPM AU PGI
PPM AU

EQUITY SILVER MINES LTD.
FIGURE 6
LEFTY PROPERTY
CROSS SECTION B-B

DRAWN EXP
DATE 91/12/18
SCALE 1:500
NO.
PLATE

FIGURE 6
LEFTY PROPERTY
CROSS SECTION B-B

LEGEND

HAZELTON VOLCANICS
TFLP = LAPILLI TUFF
TFAS = ASH TUFF
TFBX = BRECCIA TUFF
ASLP = ASH-LAPILLI TUFF
VCLS = VOLCANICLASTIC SANDSTONE
AMYG = AMYGDALOIDAL ANDESITE
ANDS = PORPHYRITIC ANDESITE

RYFL = FLOW BANDED RHYOLITE
RYSP = SPHERULITIC RHYOLITE
AFP* = ALKALI FELDSPAR PORPHYRY
RYAF = RHYOLITE FLOW BRECCIA

INTRUSIVE ROCKS
ANDY = ANDESITE DYKE
RYDY = RHYOLITE DYKE
LADY = LATITE DYKE

ASSAYS
%COPPER, PPM SILVER, PPM GOLD, %ZINC

AR 21925

FIGURE 7
LEFTY PROPERTY
CROSS SECTION C-C

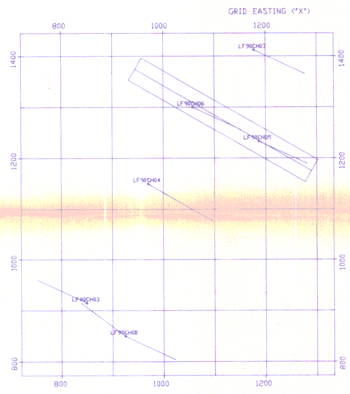
LEGEND

HAZELTON VOLCANICS
- TFLP = LAPILLI TUFF
- TFAS = ASH TUFF
- TFBX = BRECCIA TUFF
- ASLP = ASH-LAPILLI TUFF
- VLSS = VOLCANIC SANDSTONE
- ANFL = AMYGDALOIDAL ANDESITE
- ANDS = PORPHYRITIC ANDESITE

- RYFL = FLOW BANDED RHYOLITE
- RYSP = SPHERULITIC RHYOLITE
- AFP* = ALKALI FELDSPAR PORPHYRY
- RYAF = RHYOLITE FLOW BRECCIA

INTRUSIVE ROCKS
- ANDY = ANDESITE DYKE
- RYDY = RHYOLITE DYKE
- LADY = LATITE DYKE

ASSAYS
- %COPPER, PPM SILVER, PPM GOLD, %ZINC



0 100 200 300 400
METRES

LOCATION OF THIS CROSS-SECTION

XL	YL	XR	YR
945.	1375.	1290.	1175.

WIDTH	ZT	ZB
50.	1494.	1261.

LOOKING NE

DIRECTORY: /EQUITY_OD/USR/GL-DDH
DATA FILE: GL-LEFTY

POSTED DATA

ASSAYS	DH	ROCK TYPE
PCT CU		PGI
PPM AG		
PPM AU		

ELEVATION

INLINE DISTANCE

0 50 100 150 200 250 300 350

950E 1000E 1050E 1100E 1150E 1200E 1250E

1350N 1300N 1250N 1200N

0 20 40 60
METRES

EQUITY SILVER MINES LTD.

DRAWN: EXP	FIGURE 7
DATE: 91-12-18	LEFTY PROPERTY
SCALE: 1:500	CROSS SECTION C-C
	NO. PLATE

AR 21925

FIGURE 8
LEFTY PROPERTY
CROSS SECTION D-D

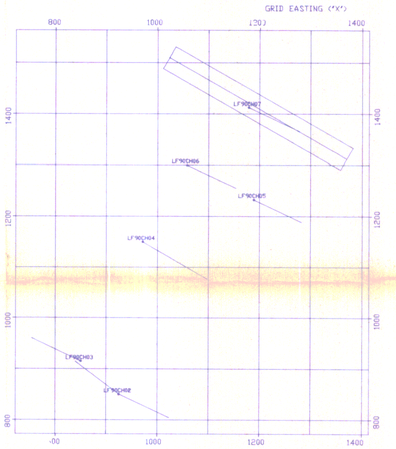
LEGEND

HAZELTON VOLCANICS
- TFLP = LAPILLI TUFF
- TFAS = ASH TUFF
- TFBX = BRECCIA TUFF
- ASLP = ASH-LAPILLI TUFF
- VLSS = VOLCANIC SANDSTONE
- ANFL = AMYGDALOIDAL ANDESITE
- ANDS = PORPHYRITIC ANDESITE

- RYFL = FLOW BANDED RHYOLITE
- RYSP = SPHERULITIC RHYOLITE
- AFP* = ALKALI FELDSPAR PORPHYRY
- RYAF = RHYOLITE FLOW BRECCIA

INTRUSIVE ROCKS
- ANDY = ANDESITE DYKE
- RYDY = RHYOLITE DYKE
- LADY = LATITE DYKE

ASSAYS
- %COPPER, PPM SILVER, PPM GOLD, %ZINC



0 100 200 300 400
METRES

LOCATION OF THIS CROSS-SECTION

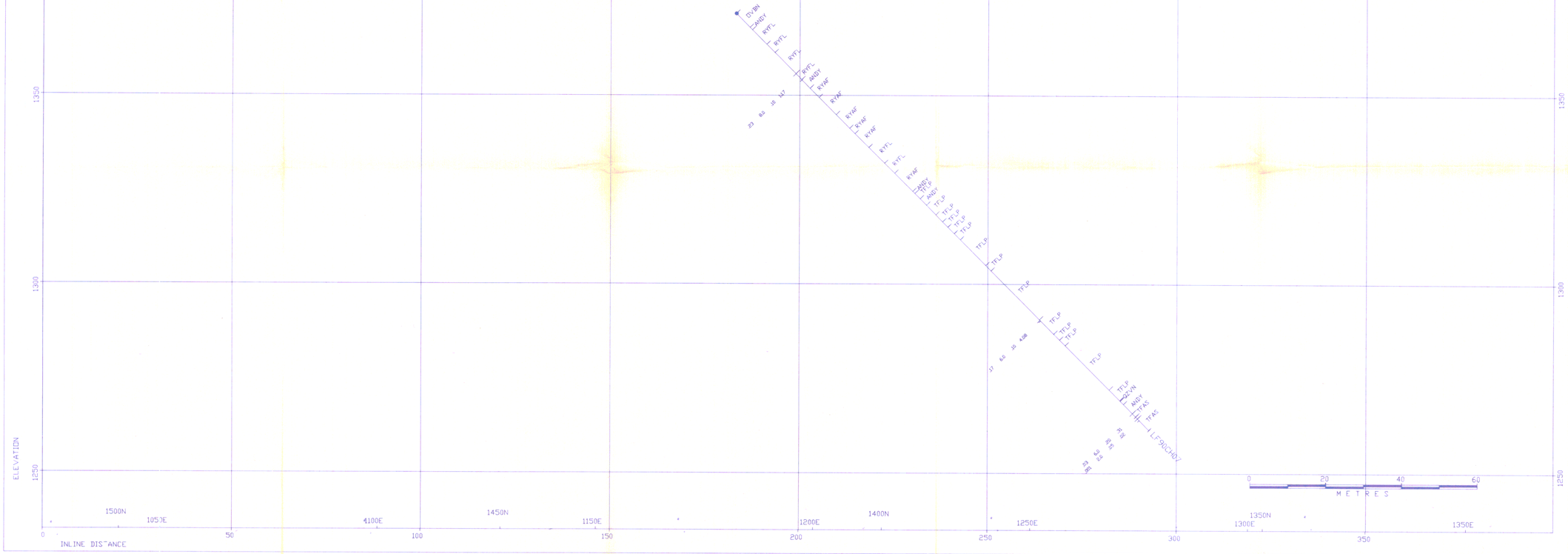
XL	YL	XR	YR
1023.	1510.	1370.	1312.

WIDTH	ZT	ZB
50.	1494.	1261.

LOOKING NE

DIRECTORY: /EQUITY_0D/USR/GL-DDH
DATA FILE: GL-LEFTY

POSTED DATA
ASSAYS DH KICK TYPE
PCT CU PGI
PPM AG
PPM AU



EQUITY SILVER MINES LTD.	
DRAWN: EXP	FIGURE 8
DATE: 91/12/18	LEFTY PROPERTY
SCALE: 1:500	CROSS SECTION D-D
	NO. PLATE

AR 21925