

VOLUME 3 of 4
APPENDICES 4 to 7

1987 GEOLOGICAL AND GEOCHEMICAL

ASSESSMENT REPORT

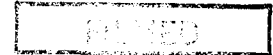
ON THE

NORTHAIR OPTION AND CALLAGHAN PROPERTY

Brandywine Falls - Vancouver Mining Division

NTS 92J/03

Lat. 50° 08'N. Long. 123° 06'W



Callaghan Property - Owned and operated by Falcon Bridge Ltd.

Northair Claims - Optioned from Northair Mines Ltd.

ALL BRANCH
ASSET REPORT

by

S.G. Clemmer, BSc., F.G.C.

17,092

January, 1988

Vancouver B.C.

Part 3 of 7

APPENDIX 4 : GEOCHEMICAL ROCK DATA

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 10:27:59

SAMPLE ID # AF05207 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-8438 FIELD NUMBER : 87140SC391 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492767.9 N : 5554164.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC .ASH.
 FINAL NAME :
 ALTERATION : NOT VISIBLE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 29-SEP-87
 ANALYZED BY : BONDAR DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SiO2	0.00	CU	32.00	PB	6.00	ZN	158.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	310.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : GRITTY TUFF OR WACKE

REPORT 12000

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SAMPLE ID # AF05173 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-8438 FIELD NUMBER : 87140SC3608 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493131.9 N : 5551929.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,EPIDOTIZATION ,STRONG.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 28-SEP-87
 ANALYZED BY : BONDAR DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	5.00	PB	3.00	ZN	74.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	370.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : CARB VEINED FELD XTL TUFF

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
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SAMPLE ID # AF05152 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-8438 FIELD NUMBER : 87140SC340B PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 490500.0 N : 5554800.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH.
 FINAL NAME :
 ALTERATION : NOT VISIBLE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 25-SEP-87
 ANALYZED BY : BONDAR DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,KH,RU,HG (P.P.B.)							
SiO2	0.00	CU	6.00	PB	5.00	ZN	41.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	310.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : GREEN CHERTY 2% PYRITE SILICIFIED TUFF

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 10:27:22

SAMPLE ID # AF05135 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-8438 FIELD NUMBER : 87140SC324E PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493280.2 N : 5553017.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 24-SEP-87
 ANALYZED BY : BONDAR DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SiO2	0.00	CU	26.00	PB	8.00	ZN	83.00	AG	0.10
AL2O3	0.00	AU	10.00	BA	1200.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : GREY PYRITIC 3-5% BLEACHED TUFF

==== F A L C O N B R I D G E L T D =====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 10:27:09

SAMPLE ID # AF05J32 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 137-8438 FIELD NUMBER : 87140SC323A PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 HTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493203.6 N : 5553087.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,MODERATE.
 MINERALIZATION : DISSEMINATED AND FLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 24-SEP-87
 ANALYZED BY : BONDAR DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SiO2	0.00	CU	50.00	PB	8.00	ZN	162.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	1200.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO3	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SHEARED RUSTY 2M CHIP OF XTAL TUFF

REPORT #2000

PAGE 1
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 10:26:57

SAMPLE ID # AF05131 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-8438 FIELD NUMBER : 87140SC323 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493203.9 N : 5553087.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : STAM CLEMMER DATE : 24-SEP-87
 ANALYZED BY : BONDAR DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	42.00	PB	8.00	ZN	79.00	AG	0.10
Al2O3	0.00	AU	-5.00	BA	1200.00				
Fe2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : RUSTY SHEARED BLEACHED TUFF. 3M CHIP

==== F A L C O N B R I D G E L T D ====
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SAMPLE ID # AF05126 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-8438 FIELD NUMBER : 87140SC318C PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 MTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493430.8 N : 5551046.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,EPIDOTIZATION ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%.PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 23-SEP-87
 ANALYZED BY : BONDAR DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							

SiO2	0.00	CU	40.00	PR	6.00	ZN	105.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	740.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : CARB-RTZ VEINED FELD XTL TUFF

REPORT #2000

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SAMPLE ID # AF05125 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-8438 FIELD NUMBER : 87140SC3188 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493430.7 N : 5551046.0 EL : 0.0
 SAMPLE TYPE : GRAE SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELUSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : NOT VISIBLE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 23-SEP-87
 ANALYZED BY : BONDAR DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	38.00	FE	34.00	ZN	153.00	AG	0.10
AL2O3	0.00	AU	15.00	BA	780.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : CARB VEINED FELD XTL TOFF

REPORT #2000

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SAMPLE ID # AF05118 WHOLE ROCK GEOCHEMICAL ANALYSIS

PRINTED 14-JAN-88

10:36:19

 LAB REPORT # 127-8438 FIELD NUMBER : 87140SC313A PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493487.5 N : 5551011.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.

FINAL NAME :

ALTERATION : NOT VISIBLE.

MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.

FORMATION :

SAMPLED BY : STAN CLEMMER

DATE : 23-SEP-87

ANALYZED BY : BONDAR

DATE : 20-OCT-87

ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SiO2	0.00	CU	80.00	PB	67.00	ZN	205.00	AG	0.20
AL2O3	0.00	AU	20.00	BA	1200.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : RUSTY SHEARED FELD XTL TUFF

REPORT #2000

PAGE 1
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SAMPLE ID # AF05110 WHOLE ROCK GEOCHEMICAL ANALYSIS 10:26:06

 LAB REPORT # 127-8438 FIELD NUMBER : 87140SC306 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492851.9 N : 5554095.5 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-14-80 START DEPTH : 215.00 END DEPTH : 220.00

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, MASSIVE.
 FINAL NAME :
 ALTERATION : NOT VISIBLE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 22-SEP-87
 ANALYZED BY : BONDAF DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)	AU	RE	PT	PD	IR	OS	RH	KU	HG (P.P.B.)
SiO2	0.00	CU	880.00	PB	3650.00	ZN	8650.00	AG			4.80
AL2O3	0.00	AU	80.00	BA	790.00						
FE2O3	0.00										
FEU	0.00										
CAO	0.00										
MGO	0.00										
NA2O	0.00										
K2O	0.00										
TiO2	0.00										
P2O5	0.00										
MNO	0.00										
S	0.00										
NiO	0.00										
CR2O3	0.00										
CO2	0.00										
H2O+	0.00										
CO2	0.00										
H2O+	0.00										
H2O-	0.00										
LOI	0.00										
TOTAL	0.00										

COMMENTS : ARGILLACEOUS WACKE 1% SPHALERITE

==== F A L C O N B R I D G E L T D =====
 === EXPLORATION DIVISION ===

REPORT #2000

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SAMPLE ID # AF05109 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-8438 FIELD NUMBER : 87140SC305 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492853.3 N : 5554098.5 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-14-80 START DEPTH : 203.00 END DEPTH : 208.00

FIELD NAME : SEDIMENTARY ARGILLITE ,CLAY,MASSIVE.
 FINAL NAME :
 ALTERATION : NOT VISIBLE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 22-SEP-87
 ANALYZED BY : BONDAP DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	0.00	CU	52.00	PB	14.00	ZN	74.00	AG	0.30
AL2O3	0.00	AU	25.00	BA	940.00				
FE2O3	0.00								
FEU	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : ARGILLACEOUS WACKE AND ARGILLITE

REPORT #2000

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SAMPLE ID # AF05103 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-8438 VELD NUMBER : 87140SC299 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493050.4 N : 5553158.0 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-15-80 START DEPTH : 574.00 END DEPTH : 599.00

FIELD NAME : VOLCANICLASTIC,MAFIC .ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : NOT VISIBLE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : STAR CLEMMER DATE : 22-SEP-87
 ANALYZED BY : BONDAR DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,KU,HG (P.P.B.)							
SiO2	0.00	CU	35.00	PR	6.00	ZN	78.00	AG	0.20
AL2O3	0.00	AU	5.00	BA	760.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO3	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLEACHED FELDSPAR XTL TUFF

==== F A L C O N B R I D G E L T D ====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1

PRINTED 14-JAN-88

SAMPLE ID # AF05102 WHOLE ROCK GEOCHEMICAL ANALYSIS

10:25:29

LAB REPORT # 127-8438 FIELD NUMBER : 871408C298 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 HTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493044.4 N : 5553156.0 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : S-15-80 START DEPTH : 547.00 END DEPTH : 574.00

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : NOT VISIBLE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 22-SEP-87
 ANALYZED BY : BONDAR DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,LR,DS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	50.00	PR	7.00	ZN	89.00	AG	0.20
AL2O3	0.00	AU	-5.00	BA	860.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLEACHED FELDSPAR ATL TOFF

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88

SAMPLE ID # AF05101 WHOLE ROCK GEOCHEMICAL ANALYSIS

10:25:16

 LAB REPORT # 127-8438 FIELD NUMBER : 87140SC297 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493038.2 N : 5553155.0 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-15-80 START DEPTH : 524.00 END DEPTH : 547.00

FIELD NAME : VOLCANICLASTIC,MAFIC .ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 22-SEP-87
 ANALYZED BY : BONDAR DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	35.00	PB	7.00	ZN	86.00	AG	0.20
AL2O3	0.00	AU	-5.00	BA	710.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLEACHED FELDSPAR XTL TUFF

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88

SAMPLE ID # A605100 WHOLE ROCK GEOCHEMICAL ANALYSIS

10:25:03

 LAB REPORT # 127-8438 FIELD NUMBER : 87140SC296 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493032.3 N : 5553153.5 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-15-80 START DEPTH : 498.00 END DEPTH : 524.00

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 22-SEP-87
 ANALYZED BY : BONDAE DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,KU,HG (P.P.B.)							
SiO2	0.00	CU	50.00	PB	6.00	ZN	63.00	AG	0.20
AL2O3	0.00	AU	20.00	BA	1100.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TI02	0.00								
P2O5	0.00								
HNO	0.00								
S	0.00								
N10	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLEACHED FELDSPAR XTL TUFF

==== F A L C O N B R I D G E L T D ====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
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SAMPLE ID # AF05099 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-8438 FIELD NUMBER : 87140SC295 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493013.9 N : 5553149.0 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-15-80 START DEPTH : 417.00 END DEPTH : 437.00

FIELD NAME : VOLCANICLASTIC,MAFIC .ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : NOT VISIBLE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 22-SEP-87
 ANALYZED BY : BONDAP DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	20.00	PB	5.00	ZN	71.00	AG	-0.10
AL2O3	0.00	AU	10.00	BA	1200.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLEACHED FELDSPAR XTL TUFF

==== F A L C O N B R I D G E L T D ====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
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SAMPLE ID # AF05097 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-8438 FIELD NUMBER : 87140SC293 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492999.9 N : 5553146.5 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-15-80 START DEPTH : 364.00 END DEPTH : 393.00

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLENDS,1-5%,PYRITIC.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 22-SEP-87
 ANALYZED BY : BONGAP DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	47.00	PB	5.00	ZN	88.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	1000.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLEACHED FELDSPAR XTL TUFF

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
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SAMPLE ID # AF05096 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-8438 FIELD NUMBER : 87140SC292 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492992.8 N : 5553144.0 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 BDH : 5-15-80 START DEPTH : 330.00 END DEPTH : 364.00

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5Z,PYRITE.
 FURMATION :

SAMPLED BY : STAN CLEMMER DATE : 22-SEP-87
 ANALYZED BY : BONDAR DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)	AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)
SiO2	0.00	CU 63.00 PB 4.00 ZN 104.00 AG 0.10	
AL2O3	0.00	AU -5.00 BA 720.00	
FE2O3	0.00		
FE0	0.00		
CAO	0.00		
MGO	0.00		
NA2O	0.00		
K2O	0.00		
TiO2	0.00		
P2O5	0.00		
MNO	0.00		
S	0.00		
NiO	0.00		
CR2O3	0.00		
CO2	0.00		
H2O+	0.00		
CO2	0.00		
H2O+	0.00		
H2O-	0.00		
LOI	0.00		
TOTAL	0.00		

COMMENTS : BLEACHED FELDSPAR XTL TUFF

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 10:23:56

SAMPLE ID # AF05095 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAE REPORT # 127-8438 FIELD NUMBER : 87140SC291 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492985.8 N : 5553143.5 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-15-80 START DEPTH : 311.00 END DEPTH : 330.00

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELUSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 23-SEP-87
 ANALYZED BY : BONDAR DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	58.00	PB	5.00	ZN	88.00	AG	0.20
AL2O3	0.00	AU	5.00	BA	920.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLEACHED FELDSPAR XTL TUFF

REPORT 12000

PAGE 1
 PRINTED 14-JAN-88
 10:23:43

SAMPLE ID # AF05094 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-8438 FIELD NUMBER : 87140SC290 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 MTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492980.7 N : 5553142.5 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-15-80 START DEPTH : 293.00 END DEPTH : 311.00

FIELD NAME : VOLCANICLASTIC, MAFIC, ASH, FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE, BLEACHING, STRONG.
 MINERALIZATION : DISSEMINATED AND BLENDS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 22-SEP-87
 ANALYZED BY : BONDAK DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) CU, RE, PT, PB, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	124.00	PR	2.00	ZN	89.00	AG	0.10
AL2O3	0.00	NI	10.00	BA	850.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLEACHED FELDSPAR XTIL TUFF

REPORT #2000

PAGE 1
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SAMPLE ID # AF05093 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-8438 FIELD NUMBER : 87140SC288 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492976.2 N : 5553141.0 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : S-15-80 START DEPTH : 267.00 END DEPTH : 293.00

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 22-SEP-87
 ANALYZED BY : RONDAE DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SIO2	0.00	CU	90.00	PH	2.00	ZN	119.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	850.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLEACHED FELDSPAR XTAL TUFF

==== F A L C O N B R I D G E L T D ====
 === EXPLORATION DIVISION ===

REPORT #12000

PAGE 1
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SAMPLE ID # A605092 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-8438 FIELD NUMBER : 87140SC288 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492971.0 N : 5553140.0 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-15-80 START DEPTH : 247.00 END DEPTH : 267.00

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLENDS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 22-SEP-87
 ANALYZED BY : RONNAR DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	300.00	PB	8.00	ZN	78.00	AG	0.30
Al2O3	0.00	AU	-5.00	BA	1200.00				
Fe2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLEACHED FELDSPAR XTL TUFF

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 10:23:05

SAMPLE ID # AF05091 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-8438 FIELD NUMBER : 87140SC287 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492963.1 N : 5553137.5 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-15-80 START DEPTH : 214.00 END DEPTH : 247.00

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-SZ,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 22-SEP-87
 ANALYZED BY : BONDAR DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)	AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)
SiO2	0.00	CU 960.00 PB 7.00 ZN 91.00	AG 0.50
AL2O3	0.00	AU -5.00 BA 1100.00	
FE2O3	0.00		
FeO	0.00		
CaO	0.00		
MgO	0.00		
Na2O	0.00		
K2O	0.00		
TiO2	0.00		
P2O5	0.00		
MnO	0.00		
S	0.00		
NiO	0.00		
CR2O3	0.00		
CO2	0.00		
H2O+	0.00		
CO2	0.00		
H2O+	0.00		
H2O-	0.00		
LOI	0.00		
TOTAL	0.00		

COMMENTS : BLEACHED FELDSPAR XTL TUFF

REPORT #3000

PAGE 1
 PRINTED 14-JAN-89
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SAMPLE ID # AF05084 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-8438 FIELD NUMBER : 87140SC280A PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493497.0 N : 5550634.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VEIN,QUARTZ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : NOT VISIBLE.
 MINERALIZATION : DISSEMINATED AND BLEBS,5-20% ,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 21-SEP-87
 ANALYZED BY : BONUAE DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
-----	-----	-----	-----	-----	-----	-----	-----	-----	
SI02	0.00	CU	85400.00	PB	22.00	ZN	25.00	AG	31.10
AL2O3	0.00	AU	40.00	BA	410.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
Mg0	0.00								
NA2O	0.00								
K2O	0.00								
Ti02	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
Ni0	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : QTZ VEIN 20% PYRITE

==== F A L C O N B R I D G E L T D =====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
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SAMPLE ID # AF05077 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-8438 FIELD NUMBER : 87140SC274A PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493017.1 N : 5553155.5 EL : 0.0
 SAMPLE TYPE : GRAE SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5Z,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 20-SEP-87
 ANALYZED BY : BONDAR DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PB,IR,OS,RH,RU,HG (P.P.B.)					
SiO2	0.00	CU	25.00	PR	7.00	ZN	50.00	AG	0.10
Al2O3	0.00	AU	-5.00	BA	1000.00				
Fe2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SHEARED BLEACHED FELD XTL TUFF

==== F A L C O N B R I D G E L T D =====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 10:22:27

SAMPLE ID # AF05074 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-8438 FIELD NUMBER : 87140SC272A PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492977.9 N : 5553173.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 20-SEP-87
 ANALYZED BY : BOMDAK DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	12.00	PH	5.00	ZN	92.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	930.00				
FE2O3	0.00								
FEO	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : ALTERED PYRITIC BLEACHED FELD XTL TUFF

REPORT #2000

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 PRINTED 14-JAN-88
 10:22:15

SAMPLE ID # AF05066 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7680 FIELD NUMBER : 87140SC266 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493463.5 N : 5553838.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH.
 FINAL NAME :
 ALTERATION : PERVASIVE ,SILICIFICATION,STRONG.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 16-SEP-87
 ANALYZED BY : BONDAR DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
S102	0.00	CU	1300.00	PB	8.00	ZN	16.00	AG	2.10
AL2O3	0.00	AU	-5.00	BA	1600.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SILICIFIED CONTACT ROCK WITH DIORITE

REPORT #2000

PAGE 1
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SAMPLE ID # AF01194 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7680 FIELD NUMBER : 87140SC245B PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492952.8 N : 5553189.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,STRONG.
 MINERALIZATION : DISSEMINATED AND FLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 13-SEP-87
 ANALYZED BY : BONDAP DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PB,IR,OS,RH,RU,HG (P.P.B.)					
SiO2	0.00	CU	33.00	PB	12.00	ZN	150.00	AG	0.60
AL2O3	0.00	AU	-5.00	BA	950.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLEACHED SHEARED, 5% PYRITE FELDSPAR XTAL TUFF

REPORT #2000

PAGE 1
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SAMPLE ID # AF01191 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-2680 FIELD NUMBER : 87140SC243A PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493130.6 N : 5553107.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 13-SEP-87
 ANALYZED BY : RONDAF DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,IR,OS,RH,KU,HG (P.P.B.)							
SiO2	0.00	CU	35.00	PR	14.00	ZN	120.00	AG	0.30
AL2O3	0.00	AU	-5.00	BA	960.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLEACHED, 5% PYRITIC ESP XTL TOFF

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SAMPLE ID # A001183 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7680 FIELD NUMBER : 87140SC235A PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493189.9 N : 5553392.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 13-SEP-87
 ANALYZED BY : RONDAK DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,KH,RU,HG (P.P.B.)							
SiO2	0.00	CU	8.00	FE	11.00	ZN	78.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	850.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : 3-5%PYRITE IN MOD. BLEACHED ESP XTL TUFF

==== F A L C O N B R I D G E L T D =====
 === EXPLORATION DIVISION ===

REPORT #2000

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SAMPLE ID # AF01172 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7680 FIELD NUMBER : 87140SC224A PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494088.9 N : 5550874.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY , ARGILLITE , CLAY.
 FINAL NAME :
 ALTERATION : NOT VISIBLE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 10-SEP-87
 ANALYZED BY : BONDAR DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	161.00	PB	790.00	ZN	154.00	AG	1.40
AL2O3	0.00	AU	-5.00	BA	980.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : GREY TO BLACK ARGILLITE 4 M CHIP

REPORT #2000

PAGE 1
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SAMPLE ID # AF01169 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7680 FIELD NUMBER : 87140SC221 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092303 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494837.4 N : 5550827.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC .ASH.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLESS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 10-SEP-87
 ANALYZED BY : BONDAP DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	30.00	PB	5.00	ZN	21.00	AG	0.30
AL2O3	0.00	AU	-5.00	BA	710.00				
FE2O3	0.00								
FEU	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : LT GREY WHITE BLEACHED SHEARED 5% DISSEM PYRITE IN A FINE GRAINED TUFF

==== F A L C O N E R I D G E L T O ====
=== EXPLORATION DIVISION ===

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SAMPLE ID # AF05052 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7680 FIELD NUMBER : 87140SC252A PROJECT # 1140
TOWNSHIP : LOT : 0
CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092J03 PROJECT : NORTHAIR
UTM ZONE : 10
GRID COORDINATES : E : 492339.4 N : 5553917.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI,FELDSPAR PORPHYRITIC.
FINAL NAME :
ALTERATION :
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%.PYRITE.
FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 15-SEP-87
ANALYZED BY : BORDAK DATE : 08-OCT-87
ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)	AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)
SI02	0.00	CU 37.00 PB 6.00 ZN 126.00 AG 0.40	
AL2O3	0.00	AU -5.00 BA 710.00	
FE2O3	0.00		
FEO	0.00		
CAO	0.00		
MGO	0.00		
NA2O	0.00		
K2O	0.00		
TIO2	0.00		
P2O5	0.00		
MNO	0.00		
S	0.00		
N10	0.00		
CR2O3	0.00		
CO2	0.00		
H2O+	0.00		
CO3	0.00		
H2O+	0.00		
H2O-	0.00		
LOI	0.00		
TOTAL	0.00		

COMMENTS : BLACK FELDSPAR-AUGITE LAPILLI TUFF 5% PYRITE

==== F A L C O N B R I D G E L T D ====
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SAMPLE ID # AF01167 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7680 FIELD NUMBER : 87140SC319B PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494635.5 N : 5551052.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 10-SEP-87
 ANALYZED BY : BONDAR DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SiO2	0.00	CU	25.00	PR	7.00	ZN	77.00	AG	0.20
AL2O3	0.00	AU	-5.00	BA	880.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : 5% PYRITE, MODERATELY BLEACHED FELDSPAR XTAL TUFF

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REPORT #2000

PAGE 1
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SAMPLE ID # AF01165 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7680 FIELD NUMBER : 87140SC218 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494469.2 N : 5551073.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,WEAK.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 10-SEP-87
 ANALYZED BY : RONDAE DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,KU,HG (P.P.B.)							
SI02	0.00	CU	37.00	PB	5.00	ZN	138.00	AG	0.40
AL2O3	0.00	AU	5.00	BA	390.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MG0	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
N10	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : GREY LIGHTLY BLEACHED FELDSPAR XTAL TUFE

==== F A L C O N B R I D G E L T D ====
 === EXPLORATION DIVISION ===

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SAMPLE ID # AF01149

WHOLE ROCK GEOCHEMICAL ANALYSIS

10:20:10

 LAB REPORT # 127-7680 FIELD NUMBER : 87140SC200 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493307.3 N : 5592520.0 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-5-80 START DEPTH : 259.00 END DEPTH : 281.00

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,CARBONATIZATION ,STRONG.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 08-SEP-87
 ANALYZED BY : BONDAE DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CO	17.00	PB	13.00	ZN	99.00	AG	0.40
Al2O3	0.00	AU	-5.00	BA	780.00				
Fe2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO3	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : EE-CARB ALTERED XTAL TUFF

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SAMPLE ID # AF01141 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7680 FIELD NUMBER : 87140SC192 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492956.8 N : 5553570.0 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : S-19-80 START DEPTH : 710.00 END DEPTH : 720.00

FIELD NAME : SEDIMENTARY ARGILLITE ,CLAY,MASSIVE.
 FINAL NAME :
 ALTERATION :
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 08-SEP-87
 ANALYZED BY : BONDAR DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PI,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	44.00	PB	31.00	ZN	119.00	AG	0.70
AL2O3	0.00	AU	-5.00	BA	980.00				
FE2O3	0.00								
FEU	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : GREY TO BLACK ARGILLACEOUS WACKE

==== F A L C O N B R I D G E L T D ====
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SAMPLE ID # AF01134 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7680 FIELD NUMBER : 87140SC185 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492935.5 N : 5553152.0 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-13-80 START DEPTH : 141.00 END DEPTH : 162.00

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION :
 MINERALIZATION : DISSEMINATED AND BLEBS,1-52.PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 08-SEP-87
 ANALYZED BY : BONDAR DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	76.00	PB	1200.00	ZN	1700.00	AG	2.20
AL2O3	0.00	AU	520.00	BA	990.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : PYRITIC QTZ VEINED FELDSPAR XTAL TOEF

==== F A L C O N B R I D G E L T D ====
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SAMPLE ID # AF01130 WHOLE ROCK GEOCHEMICAL ANALYSIS

10:19:33

LAB REPORT # 127-7680 FIELD NUMBER : 87140SC181 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493013.0 N : 5552978.5 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-3-80 START DEPTH : 377.00 END DEPTH : 396.00

FIELD NAME : VOLCANICLASTIC, MAEIC, LAPILLI, FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 03-SEP-87
 ANALYZED BY : BONDAR DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PB, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	23.00	PB	9.00	ZN	95.00	AG	0.40
AL2O3	0.00	AU	-5.00	BA	990.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
F2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : PYRITIC FELDSPAR LAPILLI XTAL TUFF

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SAMPLE ID # AF01128 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7680 FIELD NUMBER : 87140SC179 PROJECT # 1140
TOWNSHIP : LOT : 0
CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092J03 PROJECT : NORTHAIR
UTM ZONE : 10
GRID COORDINATES : E : 492990.6 N : 5552957.5 EL : 0.0
SAMPLE TYPE : DRILL HOLE
DUM : 5-3-80 START DEPTH : 260.00 END DEPTH : 281.00

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI,FELDSPAR PORPHYREITIC.
FINAL NAME :
ALTERATION : UNKNOWN.
MINERALIZATION : DISSEMINATED AND BLENDS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 08-SEP-87
ANALYZED BY : BONDAR DATE : 08-OCT-87
ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SI02	0.00	CU	33.00	PB	15.00	ZN	92.00	AG	0.30
AL2O3	0.00	AU	-5.00	BA	1200.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NIO	0.00								
CF2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
HCO-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : PYRITIC 2% FELDSP XTAL LAPILLI TOFF

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SAMPLE ID # AF01127 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7680 FIELD NUMBER : 87140SC178 PROJECT # 1140
TOWNSHIP : LOT : 0
CONCESSION : PROVINCE : BRITISH COLUMBIA
HTS : 092J03 PROJECT : NORTHAIR
UTM ZONE : 10
GRID COORDINATES : E : 492986.8 N : 5552953.0 EL : 0.0
SAMPLE TYPE : DRILL HOLE
DDH : 5-3-80 START DEPTH : 235.00 END DEPTH : 260.00

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI, FELDSPAR PORPHYRITIC.
FINAL NAME :
ALTERATION : UNKNOWN.
MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 08-SEP-87
ANALYZED BY : BONDAR DATE : 08-OCT-87
ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)	AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)
SiO2	0.00	CU 41.00 PB 13.00 ZN 19.00 AG 0.40	
AL2O3	0.00	AD -5.00 BA 1400.00	
FE2O3	0.00		
FE0	0.00		
CAO	0.00		
MGO	0.00		
NA2O	0.00		
K2O	0.00		
TiO2	0.00		
P2O5	0.00		
MNO	0.00		
S	0.00		
NiO	0.00		
CR2O3	0.00		
CO2	0.00		
H2O+	0.00		
CO2	0.00		
H2O+	0.00		
H2O-	0.00		
LOI	0.00		
TOTAL	0.00		

COMMENTS : PYRITIC 2% FELDSPAR XTAL LAPILLI TUFF ROCK SHEARED BLEACHED LT GREY

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SAMPLE ID # AF01116 WHOLE ROCK GEOCHEMICAL ANALYSIS 10:18:30

LAB REPORT # 127-7408 FIELD NUMBER : 87140SC170A PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492762.4 N : 5554187.0 EL : 0.0
 SAMPLE TYPE : GROSS SAMPLE

FIELD NAME : SEDIMENTARY , ARGILLITE , CLAY, MASSIVE.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : BEDDED, 5-20% , SPHALERITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 03-SEP-87
 ANALYZED BY : BONDAF DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)								
		AU	RE	PT	PD	IR	OS	RH	RU	HG (P.P.B.)
SiO2	0.00	CU 4100.00	PB 164.00	ZN 183600.00	AG 14.00					
Al2O3	0.00	AU 35.00	BA 1500.00							
Fe2O3	0.00									
FeO	0.00									
CaO	0.00									
MgO	0.00									
Na2O	0.00									
K2O	0.00									
TiO2	0.00									
P2O5	0.00									
MnO	0.00									
S	0.00									
NiO	0.00									
Cr2O3	0.00									
CO2	0.00									
H2O+	0.00									
CO2	0.00									
H2O+	0.00									
H2O-	0.00									
LOI	0.00									
TOTAL	0.00									

COMMENTS : 10% SPHALERITE IN DARK GREY CHERTY ARGILLITE ROCK

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SAMPLE ID # AF01115 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7408 FIELD NUMBER : 87140SC169 PROJECT # 1140
TOWNSHIP : LOT : 0
CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092J03 PROJECT : NORTHAIR
UTM ZONE : 10
GRID COORDINATES : E : 492691.4 N : 5554080.5 EL : 0.0
SAMPLE TYPE : GRAE SAMPLE

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, MASSIVE.
FINAL NAME :
ALTERATION : UNKNOWN.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 03-SEP-87
ANALYZED BY : BORDAN DATE : 22-SEP-87
ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PU, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	17.00	PB	13.00	ZN	44.00	AG	0.40
AL2O3	0.00	AU	-5.00	BA	670.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : FINE GRAINED RUSTY VOLCANIC WACKE

==== F A L C O N B R I D G E L T D ====
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SAMPLE ID # AF01103 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7408 FIELD NUMBER : 87140SC158 PROJECT # 1140
TOWNSHIP : LOT : 0
CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092J03 PROJECT : NORTHAIR
UTM ZONE : 10
GRID COORDINATES : E : 495285.5 N : 5550821.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : OTHER ,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION :
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 31-AUG-87
ANALYZED BY : BONDAR DATE : 22-SEP-87
ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SiO2	0.00	CU	9.00	PB	3.00	ZN	41.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	80.00				
FE2O3	0.00								
FE0	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : RED HARD SPRING FERRO-CRETE

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SAMPLE ID # AF01093 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 87140SC146 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492965.3 N : 5552646.0 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-2-80 START DEPTH : 136.00 END DEPTH : 160.00

FIELD NAME : VOLCANICLASTIC, MAEIC LASH.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND FLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 30-AUG-87
 ANALYZED BY : RONDAK DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	335.00	PR	370.00	ZN	980.00	AG	2.20
AL2O3	0.00	AU	440.00	EA	1200.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : DARK GREY QTZ-CARB VEINED FELDSPAR XTAL TUFF 5% PYRITE

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SAMPLE ID # AFO1088

WHOLE ROCK GEOCHEMICAL ANALYSIS

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 LAB REPORT # 127-7408 FIELD NUMBER : 87140SC141 PROJECT # 1140
 TOWNSHIP LOT : 0
 CONCESSION PROVINCE : BRITISH COLUMBIA
 NTS PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493311.4 N : 5552885.0 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 BOH : 5-12-80 START DEPTH : 532.00 END DEPTH : 554.00

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH.FELDSPAR PORPHYRITIC.

FINAL NAME :

ALTERATION : UNKNOWN.

MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.

FORMATION :

SAMPLED BY : STAN CLEMMER

DATE : 30-AUG-87

ANALYZED BY : BONDAR

DATE : 22-SEP-87

ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	36.00	PB	3.00	ZN	109.00	AG	0.20
AL2O3	0.00	AU	-5.00	BA	1300.00				
FE2O3	0.00								
FEU	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO3	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : 2% PYRITE IN FELDSPAR XTAL TUFF

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SAMPLE ID # AF01082 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7408 FIELD NUMBER : 87140SC134 PROJECT # 1140
TOWNSHIP : LOT : 0
CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092J03 PROJECT : NORTHAIR
UTM ZONE : 10
GRID COORDINATES : E : 492450.9 N : 5550676.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : IGNEOUS ,MAFIC ,MEDIUM.
FINAL NAME :
ALTERATION : UNKNOWN.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 29-AUG-87
ANALYZED BY : BONDAR DATE : 22-SEP-87
ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PO,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	27.00	PB	-2.00	ZN	64.00	AG	0.20
AL2O3	0.00	AU	-5.00	BA	630.00				
FE2O3	0.00								
FEO	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : ALTERED BDRITE DYKE

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SAMPLE ID # AFO1080 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7408 FIELD NUMBER : 87140SC132 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492419.1 N : 5550645.0 EL : 0.0
 SAMPLE TYPE : GRAVE SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,EPIDOTIZATION ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 29-AUG-87
 ANALYZED BY : BONDAP DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)								
		AU	RE	PT	PB	LR	OS	RH	RU	HG (P.P.B.)
SiO2	0.00	CU	13.00	PR	2.00	ZN	60.00	AG	0.20	
AL2O3	0.00	AU	-5.00	BA	850.00					
FE2O3	0.00									
FEU	0.00									
CAO	0.00									
MGO	0.00									
NA2O	0.00									
K2O	0.00									
TiO2	0.00									
P2O5	0.00									
MNO	0.00									
S	0.00									
NiO	0.00									
CR2O3	0.00									
CO2	0.00									
H2O+	0.00									
CO3	0.00									
H2O+	0.00									
H2O-	0.00									
LOI	0.00									
TOTAL	0.00									

COMMENTS : EPIDOTIZED RUSTY FELDSPAR XTAL TUFF

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SAMPLE ID # AEO1079 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7408 FIELD NUMBER : 87140SC130 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494407.8 N : 5552085.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,EPIDOTIZATION ,WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 28-AUG-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	67.00	PH	-2.00	ZN	39.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	730.00				
FE2O3	0.00								
FEU	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : RUSTY SHEARED WEAKLY EPIDOTIZED FELDSPAR XTAL TUFF

==== F A L C O N B R I D G E L T D =====
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SAMPLE ID # AF01078 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7408 FIELD NUMBER : 87140SC129B PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494285.1 N : 5552124.0 EL : 0.0
 SAMPLE TYPE : GRAE SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC .ASH.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 28-AUG-87
 ANALYZED BY : BONDAE DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	28.00	PB	8.00	ZN	79.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	1100.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SILICEOUS GREY HARD RUSTY ROCK

==== FALCONBRIDGE LTD ====
 === EXPLORATION DIVISION ===

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SAMPLE ID # AF01076 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 87140SC1278 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493776.7 N : 5552188.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION :
 MINERALIZATION : DISSEMINATED AND BLENDS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 28-AUG-87
 ANALYZED BY : RONDAE DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
-----		-----							
SiO2	0.00	CU	51.00	PB	10.00	ZN	84.00	AG	0.30
Al2O3	0.00	AU	15.00	BA	1100.00				
Fe2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
H1O	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : FELDSPAR XTAL TUFF 2% PYRITE

REPORT #2000

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SAMPLE ID # AF01073 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 137-7408 FIELD NUMBER : 87140SC122A PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494045.2 N : 5552304.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY ,ARGILLITE ,CLAY,MASSIVE.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 28-AUG-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	134.00	FE	12.00	ZN	115.00	AG	0.20
AL2O3	0.00	GD	-5.00	BA	950.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
N10	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : ARGILLITE 3 M CHIP

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 === EXPLORATION DIVISION ===

REPORT #3000

PAGE 1
 PRINTED 14-JAN-88
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SAMPLE ID # AF01072 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 87140SC121 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092303 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493900.7 N : 5552301.0 EL : 0.0
 SAMPLE TYPE : GRAE SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLENDS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 28-AUG-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
S102	0.00	CU	315.00	PB	7.00	ZN	124.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	530.00				
FE2O3	0.00								
FEO	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
N10	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : 1-3% PYRITE IN BRECCIATED FELDSPAR XTAL TUFF

==== F A L C O N B R I D G E L T D =====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
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SAMPLE ID # AF01071 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 137-7408 FIELD NUMBER : 87140SC120 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493861.2 N : 5552334.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, MAEIC, ASH, FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLEBS, I-SZ, PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 28-AUG-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
S102	0.00	CU	22.00	PB	7.00	ZN	113.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	840.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
Mg0	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO3	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : RUSTY SHEARED FELDSPAR XTAL TUFF

REPORT #2000

PAGE 1
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SAMPLE ID # AF01067 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 87140SC116 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 093J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493638.4 N : 5552699.0 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-11-80 START DEPTH : 538.00 END DEPTH : 550.00

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION :
 MINERALIZATION :
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 27-AUG-87
 ANALYZED BY : BONDAP DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,KU,HG (P.P.B.)							
SiO2	0.00	CU	48.00	FE	12.00	ZN	100.00	AG	0.50
AL2O3	0.00	AU	5.00	BA	1100.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : PYRITIC FELDSPAR XTAL TUFF

REPORT #2000

PAGE 1
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SAMPLE ID # AF01058 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 87140SC107 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492856.4 N : 5554104.0 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-14-80 START DEPTH : 342.00 END DEPTH : 354.00

FIELD NAME : SEDIMENTARY , ARGILLITE , CLAY , MASSIVE.
 FINAL NAME :
 ALTERATION :
 MINERALIZATION :
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 27-AUG-87
 ANALYZED BY : BONBAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	42.00	PB	19.00	ZN	122.00	AG	0.20
AL2O3	0.00	AU	-5.00	BA	1100.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SILTY ARGILLITE

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 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
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SAMPLE ID # AF01054 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 87140SC103 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493857.3 N : 5552395.0 EL : 0.0
 SAMPLE TYPE : GRAVE SAMPLE

FIELD NAME : SEDIMENTARY ,ARGILLITE ,CLAY,MASSIVE.
 FINAL NAME :
 ALTERATION :
 MINERALIZATION :
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 25-AUG-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,IR,OS,RH,RO,HG (P.P.B.)							
-----	-----	-----	-----	-----	-----	-----	-----	-----	
SiO2	0.00	CU	27.00	PB	13.00	ZN	103.00	AG	0.50
AL2O3	0.00	AU	-5.00	BA	770.00				
FE2O3	0.00								
EE0	0.00								
CA0	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SILTY ARGILLITE

==== FALCONBRIDGE LTD =====
 === EXPLORATION DIVISION ===

REPORT #3000

PAGE 1
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SAMPLE ID # AF01053 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAE REPORT # 127-7408 FIELD NUMBER : 87140SC102 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493901.6 N : 5552396.5 EL : 0.0
 AMPLE TYPE :

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : S. CLEMMER DATE : 25-AUG-87
 ANALYZED BY : BONDAP DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	57.00	PB	5.00	ZN	250.00	AG	0.20
AL2O3	0.00	AU	5.00	BA	470.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : 1% PYRITE XTAL TUFE

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SAMPLE ID # AF01052 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 87140SC100B PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493943.4 N : 5552403.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH.
 FINAL NAME :
 ALTERATION : PERVASIVE ,SILICIFICATION.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : S. CLEMMER DATE : 25-AUG-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,FE,PT,PD,IR,OS,RH,RU,MO (P.P.B.)							
SiO2	0.00	CU	82.00	PB	4.00	ZN	1200.00	AG	0.10
AL2O3	0.00	AU	120.00	BA	740.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SILICIFIED "WAXY TUFF"

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SAMPLE ID # AF01051 WHOLE ROCK GEOCHEMICAL ANALYSIS

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 LAB REPORT # 127-7408 FIELD NUMBER : 87140SC100A PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493943.4 N : 5552403.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH.
 FINAL NAME :
 ALTERATION : PERVASIVE ,EPIDOTIZATION.
 MINERALIZATION : DISSEMINATED AND ELEBS,5-20% .MAGNETITE.
 FORMATION :

SAMPLED BY : S. CLEMMER DATE : 25-AUG-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR		TRACE ELEMENTS (P.P.M.)								
OXIDES	WT %	AU	RE	PT	PB	IR	OS	RH	RU	HG (P.P.B.)
SiO2	0.00	CU	1750.00	PR	139.00	ZN	30300.00	AG	12.00	
AL2O3	0.00	AU	240.00	BA	100.00					
FE2O3	0.00									
FE0	0.00									
CAO	0.00									
MGO	0.00									
NA2O	0.00									
K2O	0.00									
TiO2	0.00									
P2O5	0.00									
MNO	0.00									
S	0.00									
NI0	0.00									
CR2O3	0.00									
CO2	0.00									
H2O+	0.00									
CO2	0.00									
H2O+	0.00									
H2O-	0.00									
LOI	0.00									
TOTAL	0.00									

COMMENTS : PYRITE MAGNETITE- EPIDOTE ROCK 20% PYRITE 20% MAGNETITE

REPORT #2000

PAGE 1
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SAMPLE ID # A003999 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 8714066292 PROJECT # 1140
 TOWNSHIP : LUT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494025.3 N : 5551904.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VEIN, QUARTZ, MEDIUM.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED, SULPHIDE ALTERATION, MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% CHALCOPYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 25-AUG-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : AA+FA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SiO2	0.00	CU	99500.00	PB	6.00	ZN	107.00	AG	53.80
AL2O3	0.00	AU	700.00	BA	-20.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
H1O	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : DISSEM CLOTS OF MASSIVE CPY IN 3M WIDE EXPOSURE OF VEIN QTZ IN CREEK

REPORT #2000

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SAMPLE ID # A003998 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 87140EG291 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493990.0 N : 5551882.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : OTHER ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SILICIFICATION,STRONG.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 25-AUG-87
 ANALYZED BY : BOMDAP DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	310.00	PB	3.00	ZN	59.00	AG	0.50
AL2O3	0.00	AU	-5.00	BA	170.00				
FE2O3	0.00								
FEU	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SILICIFIED ZONE WITHIN FELDSPAR CRYSTAL TUFF UNIT CONTAINING MINOR
 CHLORITE ON FRACTURES

REPORT #2000

PAGE 1
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SAMPLE ID # A003996 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-2408 FIELD NUMBER : 87140EG289 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092303 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494012.7 N : 5551874.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : OTHER ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,STRONG.
 MINERALIZATION : IN VEINS,20-50%,CHALCOPYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 25-AUG-87
 ANALYZED BY : BONDAF DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,IR,OS,RH,RU,HG (P.P.B.)							
SI02	0.00	CU	107500.00	PB	5.00	ZN	3000.00	AG	76.10
AL2O3	0.00	AU	95.00	BA	420.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : 5 CM CPY-RICH SHEAR ZONE WITH 60% CPY WITHIN ALTERED CRYSTAL TUFF

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
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SAMPLE ID # A003995 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 87140EG288 PROJECT # 1140
 TOWNSHIP : LUT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493964.5 N : 5551856.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, MAEIC .ASH.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 25-AUG-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PB, IR, OS, RH, RU, HG (P.P.B.)			
SiO2	0.00	CU	8.00	PB	5.00	ZN	53.00	AG	0.10
AL2O3	0.00	AU	10.00	BA	440.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : PHYLITIC CHLORITIC TUFF WITH 5% PY ON MINOR SHEAR SURFACES

==== F A L C O N B R I D G E L T D ====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 10:12:45

SAMPLE ID # A003994 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 87140E6287 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092303 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493987.5 N : 5551866.0 EL : 0.0
 SAMPLE TYPE : GRAE SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 25-AUG-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
		CU	PB	ZN	AG				
S102	0.00	14.00	16.00	191.00	0.40				
AL2O3	0.00	35.00	BA	1200.00					
FE2O3	0.00								
YEU	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : RUSTY PALE GREEN PHYLLITIC ROCK WITH 5-10% PY ON SHEARS

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REPORT #1000

PAGE 1
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SAMPLE ID # A003993

WHOLE ROCK GEOCHEMICAL ANALYSIS

10:12:32

 LAB REPORT # 137-7408 FIELD NUMBER : 87140EG286 PROJECT # 1140
 TOWNSHIP LOT : 0
 CONCESSION PROVINCE : BRITISH COLUMBIA
 NTS PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494331.2 N : 5551891.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC,MATRIX SUPPORTED,CRYSTAL.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,WEAK.
 MINERALIZATION : DISSEMINATED AND BLENDS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 24-AUG-87
 ANALYZED BY : BONDAF DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	9.00	PB	5.00	ZN	32.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	510.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SHEARED PALE GREY ESP CRYSTAL TUFF WITH 5% MEDIUM GRAINED DISSEMINATED PY

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SAMPLE ID # A003992 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-2408 FIELD NUMBER : 8714086285 PROJECT # 1140
TOWNSHIP : LOT : 0
CONCESSION : PROVINCE : BRITISH COLUMBIA
NIS : 092J03 PROJECT : NORTHAIR
UTM ZONE : 10
GRID COORDINATES : E : 494845.2 N : 5551501.0 EL : 0.0
SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : OTHER ,LOOK AT COMMENTS.
FINAL NAME :
ALTERATION : PERVASIVE ,SULPHIDE ALTERATION ,STRONG.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : ERIC GRILL DATE : 24-AUG-87
ANALYZED BY : BONDAR DATE : 22-SEP-87
ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,IR,OS,RH,RU,HG (P.P.B.)							
S102	0.00	CU	11.00	PB	10.00	ZN	80.00	AG	-0.10
AL2O3	0.00	AU	-5.00	RA	80.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
M60	0.00								
NA20	0.00								
K20	0.00								
T102	0.00								
P205	0.00								
MNO	0.00								
S	0.00								
N10	0.00								
CR203	0.00								
CO2	0.00								
H20+	0.00								
CO2	0.00								
H20+	0.00								
H20-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : FERROCEMENT

REPORT #2000

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SAMPLE ID # A003991 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 8714066284 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494864.5 N : 5551493.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC,MATRIX SUPPORTED,CRYSTAL.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION .MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,5-20% .PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 24-AUG-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	36.00	FE	13.00	ZN	315.00	AG	-0.10
AL2O3	0.00	AU	10.00	BA	400.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : PALE GREY ALTERED ESP CRYSTAL TUFF WITH 7% DISSEMINATED PYRITE

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SAMPLE ID # A003990 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 87140EG282 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 495045.1 N : 5551027.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, MAEIC ,ASH.
 FINAL NAME :
 ALTERATION : PERVASIVE ,SULPHIDE ALTERATION ,STRONG.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 24-AUG-87
 ANALYZED BY : BONDAP DATE : 23-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PB, IR, OS, RH, RU, HG (P.P.B.)			
SiO2	0.00	CU	14.00	PB	26.00	ZN	120.00	AG	-0.10
AL2O3	0.00	AU	10.00	BA	510.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CE2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO3	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : LIGHTLY LIBRITIZED, HIGHLY PORROUS ALTERED TUFF BLEACHED

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SAMPLE ID # A003988 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 8714066278 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092303 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494416.2 N : 5551991.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY ,CHERT ,CLAY,MASSIVE.
 FINAL NAME :
 ALTERATION : PERVASIVE ,CHLORITIZATION,WEAK.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 22-AUG-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	5.00	PB	4.00	ZN	98.00	AG	0.10
AL2O3	0.00	AU	5.00	BA	290.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : PALE GREEN APHANITIC SILICEOUS "CHERTY ROCK" WITH CONCHOIDAL FRACTURE

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SAMPLE ID # AD03987 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7408 FIELD NUMBER : 87140E6274 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494124.9 N : 5550171.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELUSPAR PORPHYRITIC,MATRIX SUPPORTED,CRYSTAL.
 FINAL NAME :
 ALTERATION : PERVASIVE ,EPIDOTIZATION ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 21-AUG-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	8.00	PB	3.00	ZN	27.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	1100.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : ALTERATION FSP CRYSTAL TUFF

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SAMPLE ID # A003986 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 87140E6271 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494313.7 N : 5550242.0 EL : 0.0
 SAMPLE TYPE : GRAVE SAMPLE

FIELD NAME : OTHER ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEDERS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 21-AUG-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
S102	0.00	CU	21.00	PR	6.00	ZN	86.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	810.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
N10	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO3	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : PALE GREEN APHANITIC ROCK WITH VERY COARSE CUBIC PYRITIC HORIZONS

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SAMPLE ID # AU03985 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 87140EG253 PROJECT # 1140
 TOWNSHIP : LDT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 490161.9 N : 5553487.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,SILICIFICATION,STRONG.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 17-AUG-87
 ANALYZED BY : BONDAR DATE : 23-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,Pd,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	19.00	PB	5.00	ZN	32.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	230.00				
FE2O3	0.00								
FEU	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SILICA EPIDOTE FLOODED CRYSTAL TUFE

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PAGE 1
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SAMPLE ID # A003984 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7408 FIELD NUMBER : 8714066250 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492767.6 N : 5554201.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC,MATRIX SUPPORTED,CRYSTAL.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 14-AUG-87
 ANALYZED BY : BOMBAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	118.00	PB	305.00	ZN	885.00	AG	1.10
Al2O3	0.00	AU	5.00	BA	540.00				
Fe2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : ARGILLACEOUS FINE GRAINED FSP XTAL TUFF 3% PY

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SAMPLE ID # A003983 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 8714066219 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 490230.0 N : 5553240.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY , SANDSTONE AND WACKE , SILT.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED, SULPHIDE ALTERATION , MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRRHOTITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 13-AUG-87
 ANALYZED BY : BOMBAR DATE : 23-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	48.00	PB	8.00	ZN	147.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	180.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : WEAKLY HORNFELSED SILTSTONE 2% PYRRHOTITE

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REPORT #2000

PAGE 1
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SAMPLE ID # A003982 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 87140EG191 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494720.0 N : 5551590.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY , SANDSTONE AND WACKE , SILT.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED, SULPHIDE ALTERATION , STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 01-AUG-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : AA+FA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PB, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	40.00	PB	9.00	ZN	220.00	AG	0.20
Al2O3	0.00	AU	5.00	BA	620.00				
Fe2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : ALTERED GREY SILTY PHYLITIC ROCK 2% DISSEM PY

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
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SAMPLE ID # AD03981 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 87140EG170 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493030.0 N : 5553385.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,STRONG.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 28-JUL-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,KU,HG (P.P.B.)							
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
SiO2	0.00	CU	10.00	PB	6.00	ZN	91.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	1000.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
F2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : RUSTY BLEACHED ALTERED TUFF FROM 1M WIDE FRACTURE ZONE

==== FALCONBRIDGE LTD =====
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SAMPLE ID # A003980 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 8714066157 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493190.7 N : 5553709.5 EL : 0.0
 SAMPLE TYPE : GRAVE SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC,MATRIX SUPPORTED,CRYSTAL.
 FINAL NAME :
 ALTERATION : PERVASIVE ,PROPYLITIZATION ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLESS,<1% .PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 28-JUL-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	62.00	PB	3.00	ZN	116.00	AG	0.20
AL2O3	0.00	AU	-5.00	BA	330.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : CHLORITE-RICH ASH/CRYSTAL TUFF

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SAMPLE ID # AUC3978 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 87140E6331 PROJECT # 1140
 TOWNSHIP : LUT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 495489.7 N : 5550587.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,MATRIX SUPPORTED,CRYSTAL ,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,EPIDOTIZATION ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 31-AUG-87
 ANALYZED BY : BONDAP DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	330.00	PB	5.00	ZN	108.00	AG	0.40
AL2O3	0.00	AU	-5.00	BA	370.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : PYRITIC (5%) RUSTY ESP CRYSTAL TOFF

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SAMPLE ID # A003977 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 87140EG330 PROJECT # 1140
 TOWNSHIP : LUT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 495521.2 N : 5550522.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VEIN, QUARTZ, MEDIUM.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : IN VEINS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 31-AUG-87
 ANALYZED BY : BONDAP DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SiO2	0.00	CU	62.00	PR	8.00	ZN	1200.00	AG	0.20
AL2O3	0.00	AU	5.00	BA	300.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : COARSE PYRITIC HTZ VEIN IN SILICIFIED PYRITIC (5%) FSP CRYSTAL TUFF

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SAMPLE ID # AD03976 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7408 FIELD NUMBER : 87140EG329 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 495580.7 N : 5550491.0 EL : 0.0
 SAMPLE TYPE : GRAVE SAMPLE

FIELD NAME : VOLCANICLASTIC.MAFIC ,ASH,MATRIX SUPPORTED,CRYSTAL ,FELDSPAR PORPHYRITIC.
 FIRMAL NAME :
 ALTERATION : FERROUSIVE ,EPIDOTIZATION ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,S-20% ,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 31-AUG-87
 ANALYZED BY : BONDAP DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PB,IR,OS,RH,RU,HG (P.P.B.)			
SiO2	0.00	CU	95.00	PR	6.00	ZN	235.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	400.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO3	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : PHYLLITIC FSP CRYSTAL TUFF 10% PY

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SAMPLE ID # AD03960 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 87140E6268 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493745.2 N : 5550767.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH.
 FINAL NAME :
 ALTERATION : PERVASIVE ,CHLORITIZATION,STRONG.
 MINERALIZATION : DISSEMINATED AND BLESS,5-20% ,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 20-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
S102	0.00	CU	48.00	PB	10.00	ZN	127.00	AG	4.80
AL2O3	0.00	AU	140.00	BA	1700.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
N10	0.00								
CF2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : DARK GREEN FINE GRAINED CRYSTAL TUFF WITH 5-10% DISSEM AND FRACTURE
 PYRITE

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SAMPLE ID # A003959 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 8714066267 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493734.1 N : 5550766.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, MAEIC ,ASH, FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED, SULPHIDE ALTERATION .STFONG.
 MINERALIZATION : DISSEMINATED AND BLESS, <1% .PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 20-AUG-87
 ANALYZED BY : BONDAE DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PB, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	16.00	FE	19.00	ZN	27.00	AG	6.10
AL2O3	0.00	AU	85.00	BA	690.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : EXTREMELY RUSTY WEATHERING ESP CRYSTAL TUFF

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SAMPLE ID # A003958 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 87140EG266 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493692.9 N : 5550765.0 EL : 0.0
 SAMPLE TYPE : GRAE SAMPLE

FIELD NAME : VOLCANICLASTIC, MAEIC, LAPILLI.
 FINAL NAME :
 ALTERATION : PERVASIVE, BLEACHING, MODERATE.
 MINERALIZATION : DISSEMINATED AND BLENDS, 5-20%, PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 20-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SI02	0.00	CU	15.00	FR	-2.00	ZN	22.00	AG	0.20
AL2O3	0.00	AU	-5.00	BA	850.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : ALTERED FINE LAPILLI TUFF, 5-10% PY ASSOC WITH MAEIC FRAGS

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SAMPLE ID # AD03957 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 87140E6265 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NYS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493623.4 N : 5550738.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,5-20% ,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 20-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	35.00	PB	57.00	ZN	54.00	AG	1.20
AL2O3	0.00	AU	30.00	BA	1200.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : ALTERED FSP CRYSTAL AND FINE LAPILLI TUFF WITH 5-10% PY ASSOC WITH MAFIC FRAGMENTS

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SAMPLE ID # A803956

WHOLE ROCK GEOCHEMICAL ANALYSIS

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 LAB REPORT # 127-6755 FIELD NUMBER : 87140E6262 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492100.5 N : 5554675.0 EL : 0.0
 SAMPLE TYPE : GRAVE SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC,MATRIX SUPPORTED,CRYSTAL.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLENDS,5-20% ,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 19-AUG-87
 ANALYZED BY : BONDAP DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SiO2	0.00	CU	10.00	PB	5.00	ZN	35.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	1300.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : PALE GREY ALTERED FSP CRYSTAL TUFF WITH 6% DISSEM PY

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SAMPLE ID # A003955 WHOLE ROCK GEOCHEMICAL ANALYSIS 10:07:42

LAB REPORT # 127-6755 FIELD NUMBER : 87140EG261 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492316.5 N : 5554694.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION .MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 19-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)			AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)				
SiO2	0.00	CU	12.00	PB	6.00	ZN	87.00	AG	0.10
AL2O3	0.00	AU	5.00	BA	1000.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : PALE GREY PHYLLITIC ALTERED FSP CRYSTAL TUFF WITH 5% DISSEM PY SLIGHTLY SHEARED TEXTURE

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SAMPLE ID # A003954 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 8714066260 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492118.7 N : 5554484.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, MAEIC, ASH, FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED, SULPHIDE ALTERATION, STRONG.
 MINERALIZATION : DISSEMINATED AND BLENDS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 19-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
		CU	PB	BA	AU	RE	PT	PD	IR	OS	RH	KU	HG
SiO2	0.00	61.00	5.00	1300.00									
AL2O3	0.00												
FE2O3	0.00												
FeO	0.00												
CaO	0.00												
MgO	0.00												
Na2O	0.00												
K2O	0.00												
TiO2	0.00												
P2O5	0.00												
MnO	0.00												
S	0.00												
NiO	0.00												
Cr2O3	0.00												
CO2	0.00												
H2O+	0.00												
CO2	0.00												
H2O+	0.00												
H2O-	0.00												
LOI	0.00												
TOTAL	0.00												

COMMENTS : BLEACHED ALTERED ESP CRYSTAL TUFF WITH 5% DISSEM PY. PALE GREY COLOR ON FRESH SURFACE

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SAMPLE ID # A003953 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 87140E6259 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492163.4 N : 5554508.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS,5-20% ,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 19-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+FA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,KO,HG (P.P.B.)							
SI02	0.00	CU	15.00	PB	-2.00	ZN	68.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	1100.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : ALTERED (BLEACHED) ESP CRYSTAL TUFF WITH 10% DISSEM PY

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SAMPLE ID # A003952 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 8714066257 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 491953.0 N : 5554263.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC,MATRIX SUPPORTED,CRYSTAL.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITIC.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 19-AUG-87
 ANALYZED BY : RONDAE DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+FA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	25.00	FB	23.00	ZN	43.00	AG	0.10
AL2O3	0.00	AU	10.00	BA	1000.00				
FE3O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLEACHED PALE GREEN ESP-CRYSTAL TUFF WITH LOCALLY SILICIFIED BANDS 5% DISSEMINATED PY

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 10:06:48

SAMPLE ID # A03951 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 137-6755 FIELD NUMBER : 87140EG256 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492037.3 N : 5554168.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC,MATRIX SUPPORTED,CRYSTAL.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 19-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+FA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,US,RH,RU,HG (P.P.B.)			
SiO2	0.00	CU	35.00	PB	7.00	ZN	23.00	AG	0.10
AL2O3	0.00	AU	10.00	BA	1300.00				
FE2O3	0.00								
FEU	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CF2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : GREY SILTY LOOKING ESP CRYSTAL TUFF WITH 5% DISSEM PY

REPORT #E000

PAGE 1
 PRINTED 14-JAN-88
 10:06:35

SAMPLE ID # A000050 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7408 FIELD NUMBER : 87140SC100 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493943.4 N : 5552403.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,EPIDOTIZATION.
 MINERALIZATION : DISSEMINATED AND BLEBS.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 25-AUG-87
 ANALYZED BY : BOMUAF DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) CU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	420.00	PB	42.00	ZN	36700.00	AG	3.20
AL2O3	0.00	AU	50.00	BA	100.00				
FE2O3	0.00								
FEU	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : EPIDOTIZED PYRITIC MAGNETITIC (2%) TUFF

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 10:06:23

SAMPLE ID # AB03949 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 87140SC099 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493955.4 N : 5552391.0 EL : 0.0
 SAMPLE TYPE : GRAE SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.

FINAL NAME :

ALTERATION : PERVASIVE ,EPIDOTIZATION.

MINERALIZATION :

FORMATION :

SAMPLED BY : STAN CLEMMER

DATE : 25-AUG-87

ANALYZED BY : BONDAR

DATE : 22-SEP-87

ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	109.00	PR	2.00	ZN	160.00	AG	0.20
AL2O3	0.00	AU	-5.00	BA	220.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : EPIDOTIZED CHLORITE TUFF

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88

SAMPLE ID # A003943 WHOLE ROCK GEOCHEMICAL ANALYSIS

10:06:11

 LAB REPORT # 127-7408 FIELD NUMBER : 87140SC085 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493744.0 N : 5552741.0 EL : 0.0
 SAMPLE TYPE : GRAPE SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION :
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 23-AUG-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,LR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	55.00	PB	5.00	ZN	113.00	AG	1.00
AL2O3	0.00	AU	10.00	BA	240.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : CHLORITIC TUFT

REPORT #3000

PAGE 1
 PRINTED 14-JAN-88
 10:05:58

SAMPLE ID # A803942 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7408 FIELD NUMBER : 871409C084 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493741.0 N : 5552729.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,SILICIFICATION.
 MINERALIZATION :
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 23-AUG-87
 ANALYZED BY : BOMBAY DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,IR,OS,RH,RU,HG (P.P.B.)							
SI02	0.00	CU	14.00	FR	7.00	ZN	530.00	AG	0.20
AL2O3	0.00	AU	-5.00	BA	390.00				
FE2O3	0.00								
FEU	0.00								
CAO	0.00								
M6U	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
N10	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : WAXY SILICIFIED TUFF

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
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SAMPLE ID # AD0394J WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7409 FIELD NUMBER : 87140SC082 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 HTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493490.1 N : 5552927.5 EL : 0.0
 SAMPLE TYPE : GRAVE SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION :
 MINERALIZATION :
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 23-AUG-87
 ANALYZED BY : BONDAP DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IK,OS,RH,RU,HG (P.P.B.)							
SI02	0.00	CU	24.00	PB	3.00	ZN	230.00	AG	0.20
AL2O3	0.00	AU	-5.00	BA	1200.00				
FE2O3	0.00								
FEO	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO3	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : FELDSPAR XTAL LAPILLI TUFF

REPORT #2000

PAGE 1
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 10:05:34

SAMPLE ID # AD03940 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 87140SC075 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 HTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493759.9 N : 5552706.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, MAEIC ,ASH, FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : S. CLEMMER DATE : 20-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PB, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	37.00	PR	-2.00	ZN	330.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	760.00				
FE2O3	0.00								
FEO	0.00								
CAO	0.00								
MGO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : CHLORITIC XTAL TUFF

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88

SAMPLE ID # AU03739 WHOLE ROCK GEOCHEMICAL ANALYSIS 10:05:22

LAB REPORT # 137-6755 FIELD NUMBER : 87140SC0748 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 HTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493762.0 N : 5552707.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,SILICIFICATION,LOOK AT COMMENTS.
 MINERALIZATION : DISSEMINATED AND BLENDS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : S. CLEMMER DATE : 20-AUG-87
 ANALYZED BY : BUNDAF DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	30.00	PR	3.00	ZN	220.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	-20.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SILICIFIED EPIDOTIZED TUFF

==== F A L C O N B R I D G E L T D =====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 10:05:09

SAMPLE ID # AD03936 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 87140SC071 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493719.0 N : 5552768.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, MAEIC ,ASH, FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,CHLORITIZATION.
 MINERALIZATION : DISSEMINATED AND BLEBS.
 FORMATION :

SAMPLED BY : S. CLEMMER DATE : 20-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	3400.00	PB	3.00	ZN	22100.00	AG	6.00
AL2O3	0.00	AU	60.00	BA	50.00				
FE2O3	0.00								
FEU	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO3	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : CHLORITIC TOFF 1 M CHIP MAGNETITE AND PYRITE DISS MINERALIZATION

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 10:04:56

SAMPLE ID # A003935 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 871405C070 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493734.0 N : 5552775.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : S. GLEMMER DATE : 20-AUG-87
 ANALYZED BY : BONDAF DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							

SiO2	0.00	CU	260.00	PB	36.00	ZN	118.00	AG	0.60
AL2O3	0.00	AU	-5.00	BA	420.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
N10	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : RUSTY GREY PYRITIC TUFF

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 10:04:42

SAMPLE ID # A003932 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 87140SC068A PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493747.8 N : 5552798.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,SILICIFICATION.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : S. CLEMMER DATE : 20-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	3.00	PB	-2.00	ZN	8.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	570.00				
FE2O3	0.00								
FEU	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SILICIFIED CHERTY ROCK 2 M CHIP

REPORT #2000

PAGE 1
 PRINTED 14-JAN-89
 10:04:29

SAMPLE ID # AD09931 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 87140SC0678 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493710.0 N : 5552782.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY ,ARGILLITE ,CLAY,MASSIVE.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : S. CLEMMER DATE : 20-AUG-87
 ANALYZED BY : SONDAG DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SI02	0.00	CU	50.00	PB	-2.00	ZN	185.00	AG	0.50
AL2O3	0.00	AU	15.00	BA	330.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NIO	0.00								
CP2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : ARGILLITE 3 M CHIP

REPORT #2000

PAGE 1

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SAMPLE ID # A003928

WHOLE ROCK GEOCHEMICAL ANALYSIS

10:04:02

LAB REPORT # 127-6755 FIELD NUMBER : 87140SC064 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493689.0 N : 5552794.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,SILICIFICATION,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : S. CLEMMER DATE : 20-AUG-87
 ANALYZED BY : BOBBAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,IR,OS,RH,RU,HG (P.P.B.)							
S102	0.00	CU	2.00	PB	-2.00	ZN	65.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	150.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
N10	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SILICIFIED CHERTY TUFF 3 M CHIP

REPORT #0990

PAGE 1
 PRINTED 14-JAN-88
 10:03:48

SAMPLE ID # A03927 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 871405C063 PROJECT # 1140
 TOWNSHIP : LUT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 498691.0 N : 5532797.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, MAEIC ,ASH, FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : UNKNOWN , EPIDOTIZATION.
 MINERALIZATION : DISSEMINATED AND BLESS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : S. CLEMMER DATE : 20-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	8.00	PB	-2.00	ZN	158.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	-20.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : WEAR EPIDOTIZED TUFF 3M CHIP

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 10:03:21

SAMPLE ID # A002925 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 871405C061 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493693.0 N : 5552800.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY , ARGILLITE , CLAY , GRAPHITIC.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : S. CLEMMER DATE : 20-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	72.00	FE	2.00	ZN	38.00	AG	0.20
AL2O3	0.00	AU	-5.00	BA	640.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MgO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : 4 m CHIP GRAPHITIC ARGILLITE

REPORT #3000

PAGE 1
 PRINTED 14-JAN-88
 10:03:07

SAMPLE ID # AD03923 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 87140SC060 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493595.8 N : 5552768.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : UNKNOWN ,BLEACHING.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : S. CLEMMER DATE : 18-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	95.00	PB	9.00	ZN	100.00	AG	0.20
Al2O3	0.00	AU	5.00	BA	760.00				
Fe2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLEACHED PYRITIC (1-5%) SHEARED FELDSPAR CRYSTAL TUFF

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
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SAMPLE ID # AD03922 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 87140SC059B PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493635.1 N : 5552733.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, MAEIC LASH, FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION :
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-52, PYRITE.
 FORMATION :

SAMPLED BY : S. CLEMMER DATE : 18-AUG-87
 ANALYZED BY : BONDAP DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	56.00	PB	8.00	ZN	142.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	890.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : PYRITIC (32) FELDSPAR XTAL TUFF

REPORT #0000

PAGE 1
 PRINTED 14-JAN-88
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SAMPLE ID # A003919 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 87140SC057 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493618.5 N : 5552808.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION :
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : S. CLEMMER DATE : 13-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PU,LR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	9.00	PB	5.00	ZN	53.00	AG	0.10
AL2O3	0.00	AU	5.00	BA	1300.00				
FE2O3	0.00								
FE0	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : PYRITIC (1%) RUSTY CRYSTAL TUPE

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PAGE 1
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SAMPLE ID # AD03914 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 87140SC051A PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493615.2 N : 5552525.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 18-AUG-87
 ANALYZED BY : BONUAF DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,IR,US,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	16.00	PB	14.00	ZN	12.00	AG	0.20
AL2O3	0.00	AU	30.00	BA	1700.00				
FE2O3	0.00								
FEU	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SHEARED PYRITIC FELDSPAR CRYSTAL LAPILLI TUFF

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #2000

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SAMPLE ID # A003911 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 87140SC046 PROJECT # 1140
TOWNSHIP : LOT : 0
CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092J03 PROJECT : NORTHAIR
UTM ZONE : 10
GRID COORDINATES : E : 491338.3 N : 5552263.5 EL : 0.0
SAMPLE TYPE : DRILL HOLE
DUH : 5-6-81 START DEPTH : 340.00 END DEPTH : 356.00

FIELD NAME : SEDIMENTARY , ARGILLITE , CLAY , GRAPHITIC .
FINAL NAME :
ALTERATION : UNKNOWN .
MINERALIZATION : NIL .
FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 17-AUG-87
ANALYZED BY : BONDAP DATE : 08-SEP-87
ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	14.00	PB	-2.00	ZN	53.00	AG	-0.10
AL2O3	0.00	AU	-5.00	RG	930.00				
FE2O3	0.00								
FE0	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : GRAPHITIC ARGILLITE

REPORT #2000

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SAMPLE ID # A003910 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 87140SC045 PROJECT # 1140
 TOWNSHIP : LUT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 491324.4 N : 5552266.0 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-6-81 START DEPTH : 280.00 END DEPTH : 286.00

FIELD NAME : SEDIMENTARY ,ARGILLITE ,CLAY,GRAPHITIC.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 17-AUG-87
 ANALYZED BY : BONDAP DATE : 09-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,IK,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	15.00	PB	5.00	ZN	53.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	1200.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLACK ARGILLITE (GRAPH)

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REPORT #2000

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SAMPLE ID # AD03909

WHOLE ROCK GEOCHEMICAL ANALYSIS

10:01:46

 LAB REPORT # 127-6755 FIELD NUMBER : 87140SC044 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 491317.6 N : 5552267.5 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-6-81 START DEPTH : 251.00 END DEPTH : 262.00

FIELD NAME : SEDIMENTARY , ARGILLITE , CLAY , GRAPHITIC.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 17-AUG-87
 ANALYZED BY : RONDAE DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	24.00	PB	-2.00	ZN	57.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	1400.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLACK ARGILLITE (GRAPH)

==== F A L C O N B R I D G E L T D ====
=== EXPLORATION DIVISION ===

REPORT #3000

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SAMPLE ID # A803908

WHOLE ROCK GEOCHEMICAL ANALYSIS

10:01:31

LAB REPORT # 127-6755 FIELD NUMBER : 87140SC043 PROJECT # 1140
TOWNSHIP LOT : 0
CONCESSION PROVINCE : BRITISH COLUMBIA
NTS PROJECT : NORTHAIR
UTM ZONE : 10
GRID COORDINATES : E : 491312.3 N : 5552268.5 EL : 0.0
SAMPLE TYPE : DRILL HOLE
DDH : 5-6-81 START DEPTH : 220.00 END DEPTH : 230.00

FIELD NAME : SEDIMENTARY ,ARGILLITE ,CLAY,GRAPHITIC.
FINAL NAME :
ALTERATION : UNKNOWN.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 17-AUG-87
ANALYZED BY : BONDAR DATE : 08-SEP-87
ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	22.00	PB	4.00	ZN	54.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	1100.00				
FE2O3	0.00								
FE0	0.00								
CaO	0.00								
MgO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLACK ARGILLITE (GRAPH)

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REPORT #0000

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SAMPLE ID # A003907

WHOLE ROCK GEOCHEMICAL ANALYSIS

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10:01:15

LAB REPORT # 127-6755 FIELD NUMBER : 87140SC042 PROJECT # 1140
TOWNSHIP : LOT : 0
CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 092J03 PROJECT : NORTHAIR
UTM ZONE : 10
GRID COORDINATES : E : 491306.6 N : 5552270.0 EL : 0.0
SAMPLE TYPE : DRILL HOLE
DWH : 5-6-81 START DEPTH : 187.00 END DEPTH : 192.00

FIELD NAME : SEDIMENTARY , ARGILLITE , CLAY , GRAPHITIC.
FINAL NAME :
ALTERATION : UNKNOWN.
MINERALIZATION : NIL.
FORMATION :

SAMPLED BY : STAN CLEMMER
ANALYZED BY : RONDAK
ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

DATE : 17-AUG-87

DATE : 08-SEP-87

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)					
SiO2	0.00	CU	29.00	PB	-2.00	ZN	37.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	1500.00				
Fe2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : ARGILLITE (GRAPH)

REPORT #3000

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SAMPLE ID # A003905 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 107-6755 FIELD NUMBER : 87140SC040 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092303 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 491292.3 N : 5552374.0 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-6-81 START DEPTH : 123.00 END DEPTH : 125.00

FIELD NAME : SEDIMENTARY , ARGILLITE , CLAY , GRAPHITIC.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 17-AUG-87
 ANALYZED BY : BOMDAE DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	45.00	PB	5.00	ZN	86.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	980.00				
FE2O3	0.00								
FE0	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SILTY ARGILLITE

==== F A L C O N B R I D G E L T D ====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
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SAMPLE ID # AD03902 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 871405C037 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 HTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 491207.1 N : 5552224.0 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DBH : 5-5-81 START DEPTH : 385.00 END DEPTH : 409.00

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, MASSIVE.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5% PYRITE.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 17-AUG-87
 ANALYZED BY : BUNDAE DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	10.00	PB	-3.00	ZN	72.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	800.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : PYRITIC GREY VOLCANIC ARENITE

==== F A L C O N B R I D G E L T D ====
 === EXPLORATION DIVISION ===

REPORT #1000

PAGE 1
 PRINTED 14-JAN-88
 10:00:33

SAMPLE ID # A003901 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 87140SC036 PROJECT # 1140
 TOWNSHIP : LUT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 491214.0 N : 5552231.0 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-5-81 START DEPTH : 381.00 END DEPTH : 383.00

FIELD NAME : SEDIMENTARY ,ARGILLITE ,CLAY,GRAPHITIC.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : STAN CLEMMER DATE : 17-AUG-87
 ANALYZED BY : BONDAP DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	29.00	PB	6.00	ZN	78.00	AG	-0.10
AL2O3	0.00	AD	-5.00	BA	1200.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
H1O	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : ARGILLITE (GRAPH)

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 10:00:19

SAMPLE ID # A003900 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 87140EG255 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 489144.0 N : 5554860.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC,MATRIX SUPPORTED,CRYSTAL.
 FINAL NAME :
 ALTERATION : PERVASIVE ,EPIDOTIZATION ,STRONG.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 18-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+FA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	42.00	PB	2.00	ZN	59.00	AG	0.10
AL2O3	0.00	AU	-5.00	FA	-20.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SILICIFIED EPIDOTIZED ESP CRYSTAL TUFF

==== F A I R C O N B R I D G E L T D =====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1

PRINTED 14-JAN-88

SAMPLE ID # A003899

WHOLE ROCK GEOCHEMICAL ANALYSIS

10:00:05

 LAB REPORT # 137-6755 FIELD NUMBER : 87140EG243 PROJECT # 1140
 TOWNSHIP LOT : 0
 CONCESSION PROVINCE : BRITISH COLUMBIA
 NTS PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493048.8 N : 5554049.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC,MATRIX SUPPORTED,CRYSTAL.
 FINAL NAME :
 ALTERATION : PERVASIVE ,PROPYLITIZATION ,STRONG.
 MINERALIZATION : OTHER.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 14-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	500.00	PB	2.00	ZN	126.00	AG	0.50
AL2O3	0.00	AU	-5.00	BA	270.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : COARSE GRAINED FSP CRYSTAL TUFF WITH DARK GREEN CHLORITIC MATRIX TRACE
 MALACHITE STAIN

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 09:59:52

SAMPLE 10 # A003898 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 8714066251 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492830.0 N : 5554226.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : OTHER ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,STRONG.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 14-AUG-87
 ANALYZED BY : BONDAF DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+FA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	-1.00	PR	4.00	ZN	15.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	800.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : CREAMY WHITE APHANITIC SILICEOUS ROCK

REPORT #2000

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 09:59:37

SAMPLE ID # A003097 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 87140E6346 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492708.0 N : 5554010.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY , SANDSTONE AND WACKE , SAND, MASSIVE.
 FINAL NAME :
 ALTERATION : PERVASIVE , PROPYLITIZATION , MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-SZ, PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 14-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	5.00	PB	4.00	ZN	81.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	510.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : FINE GRAINED VOLCANIC WACKE WITH 1-SZ PY

==== F A L C O N B R I D G E L T D =====
 === EXPLORATION DIVISION ===

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SAMPLE ID # A003896

WHOLE ROCK GEOCHEMICAL ANALYSIS

09:59:22

 LAB REPORT # 127-6755 FIELD NUMBER : 87140E6239 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492579.9 N : 5553870.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, MAEIC, ASH.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED, SULPHIDE ALTERATION, MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 14-AUG-87
 ANALYZED BY : RUNDAP DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PB, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	65.00	FE	8.00	ZN	122.00	AG	0.20
AL2O3	0.00	AU	-5.00	BA	700.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : FINE GRAINED SILTY CRYSTAL TUFF

REPORT #2000

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 PRINTED 14-JAN-88
 09:59:07

SAMPLE ID # A003895 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 8714086231 PROJECT # 1140
 TOWNSHIP : LUT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 491335.0 N : 5552215.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY ,SANDSTONE AND WACKE ,SILT.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,MODERATE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 13-AUG-87
 ANALYZED BY : BONDAE DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	11.00	FE	5.00	ZN	129.00	AG	0.10
Al2O3	0.00	AU	-5.00	BA	1300.00				
Fe2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO3	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : GREY SILTSTONE WITH FINE ESP CRYSTALS

==== F A L C O N B R I D G E L T D ====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
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SAMPLE ID # A003894 WHOLE ROCK GEOCHEMICAL ANALYSIS

09:58:51

 LAB REPORT # 137-6755 FIELD NUMBER : 8714066230 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 491368.2 N : 5552183.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY , SANDSTONE AND WACKE , SAND.
 FINAL NAME :
 ALTERATION : PERVASIVE , BLEACHING , MODERATE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 13-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	16.00	PB	3.00	ZN	43.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	750.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLEACHED ALTERED VOLCANIC WACKE

REPORT #2000

PAGE 1

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SAMPLE ID # A003893

WHOLE ROCK GEOCHEMICAL ANALYSIS

09:58:31

 LAB REPORT # 127-6755 FIELD NUMBER : 87140EG231 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 490240.0 N : 5553194.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY ,ARGILLITE ,CLAY.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLENDS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 12-AUG-87
 ANALYZED BY : BONDAE DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	45.00	PB	0.00	ZN	68.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	710.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : DARK GREY SILICEOUS ARGILLITE WITH 3% PY SLIGHTLY FLINTY

==== E A L C O N B R I D G E L T D =====
 === EXPLORATION DIVISION ===

REPORT #2000

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SAMPLE ID # A03892 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 87140EG220 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 490305.0 N : 5553098.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY ,ARGILLITE ,CLAY,MASSIVE.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 12-AUG-87
 ANALYZED BY : BONDAE DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+FA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	57.00	PB	3.00	ZN	69.00	AG	0.10
AL2O3	0.00	AU	5.00	BA	280.00				
FE2O3	0.00								
FEU	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLACK ARGILLITE 2% PY OF HAIRLINE FRACTURES

REPORT #2000

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SAMPLE ID # A903891 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 8714066211 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493740.0 N : 5552774.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : OTHER ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : PERVASIVE ,SILICIFICATION,STRONG.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 08-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	5.00	PB	-3.00	ZN	6.00	AG	0.10
AL2O3	0.00	AU	25.00	BA	530.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SILICEOUS APHANITIC CREAMY COLORED ROCK WITH SPLINTERY FRACTURE

==== F A L C O N B R I D G E L T D ====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
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SAMPLE ID # A803890 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6255 FIELD NUMBER : 87140ES200 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494009.8 N : 5552750.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : OTHER ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SILICIFICATION,STRONG.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 06-AUG-87
 ANALYZED BY : BONDAE DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+FA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PB,IR,OS,RH,RU,HG (P.P.B.)					
SiO2	0.00	CU	5.00	PB	3.00	ZN	10.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	630.00				
FE2O3	0.00								
FEU	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO3	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SILICIFIED AFANITIC ROCK

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 09:57:14

SAMPLE ID # A03889 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 87140EG198 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494107.4 N : 5551830.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SILICIFICATION,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 05-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,KE,PT,PD,IR,OS,RH,KU,HG (P.P.B.)			
SI02	0.00	CU	5.00	PB	2.00	ZN	17.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	600.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
N10	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SILICIFIED (CRYSTAL TUFF)?

==== F A L C O N B R I D G E L T D ====
 === EXPLORATION DIVISION ===

REPORT #2000

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SAMPLE ID # A003888

WHOLE ROCK GEOCHEMICAL ANALYSIS

09:56:48

 LAB REPORT # 127-6755 FIELD NUMBER : 87140EG194 PROJECT # 1140
 TOWNSHIP LOT : 0
 CONCESSION PROVINCE : BRITISH COLUMBIA
 MTS PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492356.9 N : 5554923.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY , ARGILLITE , CLAY.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED, SULPHIDE ALTERATION , MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 04-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, KE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	48.00	PB	6.00	ZN	126.00	AG	0.20
AL2O3	0.00	AU	-5.00	BA	760.00				
FE2O3	0.00								
FEU	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
N10	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : DARK GREY SILTY ARGILLITE WITH 3% PYRITE

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SAMPLE ID # A003887 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 87140EG188 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494336.8 N : 5551545.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY , SANDSTONE AND WACKE , SILT, MASSIVE.
 FINAL NAME :
 ALTERATION : IN SITU BRECCIATION , SILICIFICATION, STRONG.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 01-AUG-87
 ANALYZED BY : BONDAP DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)			
SiO2	0.00	CU	24.00	PB	4.00	ZN	67.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	1000.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BRECCIATED SILTSTONE WITH FINE GRAINED QTZ VEINS

==== F A L C O N B R I D G E L I D ====

=== EXPLORATION DIVISION ===

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PAGE 1

SAMPLE ID # AD03886

WHOLE ROCK GEOCHEMICAL ANALYSIS

PRINTED 14-JAN-88

09:56:00

LAB REPORT # 127-6755	FIELD NUMBER :	87140EG187	PROJECT #	1140
TOWNSHIP :	LOT :	0		
CONCESSION :	PROVINCE :	BRITISH COLUMBIA		
NTS : 092J03	PROJECT :	NORTHAIR		
UTM ZONE : 10				
GRID COORDINATES :	E :	494258.4	N :	5551563.0
	EL :			0.0

SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY ,CHERT ,CLAY,MASSIVE.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLEBS, SIZ ,PYRITE.
 FORMATION :

SAMPLED BY :	ERIC GRILL	DATE :	01-AUG-87
ANALYZED BY :	BONDAR	DATE :	08-SEP-87
ANALYTICAL TECHNIQUE :	AA+FA		

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SiO2	0.00	CU	27.00	PB	3.00	ZN	57.00	AG	0.10
AL2O3	0.00	AU	10.00	BA	1400.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SILTCEOUS PALE GREEN CHERTY ROCK

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SAMPLE ID # A003885 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 87140E6145 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492927.6 N : 5551733.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC,MATRIX SUPPORTED,CRYSTAL.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,WEAK.
 MINERALIZATION : DISSEMINATED AND BLED,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 26-JUL-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	23.00	PB	7.00	ZN	80.00	AG	0.20
AL2O3	0.00	AU	20.00	BA	1400.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : ASH TUFF WITH 5-10% PY

==== F A L C O N B R I D G E L T D ====
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SAMPLE ID # A003884 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 87140EG122 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 490447.2 N : 5554396.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,SILICIFICATION,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%.PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 20-JUL-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+FA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,LR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	80.00	PB	15.00	ZN	13.00	AG	0.90
AL2O3	0.00	AU	130.00	BA	400.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SILICIFIED (CRYSTAL TUFF?) 7% DISSEMINATED AND FRACTURE PYRITE

REPORT 12000

PAGE 1
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SAMPLE ID # A03883 WHOLE ROCK GEOCHEMICAL ANALYSIS

09:55:14

 LAB REPORT # 127-6755 FIELD NUMBER : 87140E6097 PROJECT # 1140
 TOWNSHIP : LUT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 491986.2 N : 5553110.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,PROPYLITIZATION ,WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS,S-20% ,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 12-30L-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	215.00	PB	-2.00	ZN	20.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	860.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO3	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : HORNEELED CRYSTAL TUPE WITH 20% PY

REPORT #2000

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SAMPLE ID # A003882 WHOLE ROCK GEOCHEMICAL ANALYSIS 09:54:51

 LAB REPORT # 127-6755 FIELD NUMBER : 87140E6096 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 491823.0 N : 5554035.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS,<1% ,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 12-JUL-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	12.00	PR	6.00	ZN	10.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	2600.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO3	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLEACHED EPF CRYSTAL TOPE MINOR PY POSSIBLY SILICIFIED

==== F A L C O N B R I D G E L I D =====
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REPORT #1000

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SAMPLE ID # A003881 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 87140EG093 PROJECT # 1140
 TOWNSHIP : LUT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492093.6 N : 5554651.5 EL : 0.0
 SAMPLE TYPE : GRAVE SAMPLE

FIELD NAME : OTHER ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLENDS, 5-20% ,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 10-JUL-87
 ANALYZED BY : BONDAF DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,KH,RU,HG (P.P.B.)							
SiO2	0.00	CU	200.00	PB	10.00	ZN	285.00	AG	0.10
AL2O3	0.00	AU	30.00	BA	330.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
R10	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : PALE GREY SILICEOUS ROCK, APHANITIC WITH 10% DISSEMINATED AND FRACTURE
 BY WEAK METAM

REPORT #2000

PAGE 1
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SAMPLE ID # A003880 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 137-6755 FIELD NUMBER : 87140E6086 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092303 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 491923.0 N : 5554450.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : OTHER ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLEBS,5-20% ,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 10-JUL-87
 ANALYZED BY : BONDAP DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+FA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HI (P.P.B.)							
SiO2	0.00	CU	75.00	FE	5.00	ZN	28.00	AG	0.20
AL2O3	0.00	AU	25.00	BA	1200.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : ALTERED AMPHIBOLIC PALE GREY ROCK WITH 8% DISSEM PY AND RUSTY ORANGE WEATHERED SURFACE

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PAGE 1
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 09:54:05

SAMPLE ID # AB03879 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 87140E6078 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIF
 UTM ZONE : 10
 GRID COORDINATES : E : 491562.0 N : 5552483.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,MATRIX SUPPORTED,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : PERVASIVE ,PROPYLITIZATION ,MODERATE.
 MINERALIZATION : STRINGERS ,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 08-JUL-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR		TRACE ELEMENTS (P.P.M.) AU,KE,PT,PD,LR,OS,RH,KU,HG (P.P.B.)							
OXIDES	WT %	-----							
SiO2	0.00	CU	10.00	PF	-2.00	ZN	60.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	1600.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : COARSE GRAINED FELDSPAR CRYSTAL TUFF AGGLOMERATE. 5% DISSEM AND FRACTURE
 PYRITE

==== F A L C O N B R I D G E L T D ====
 === EXPLORATION DIVISION ===

REPORT #0000

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SAMPLE ID # AD03877 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28692 FIELD NUMBER : 87140E6102 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 HTS : 92103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492302.2 N : 5553431.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VEIN, QUARTZ, MEDIUM.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : IN VEINS, 1-5%, PYRITE PLUS CHALCOPYRITE.
 FORMATION :

SAMPLED BY : E GRILL DATE : 12-JUL-87
 ANALYZED BY : XRAL DATE : 14-AUG-87
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
		CU	1000.00	ZN	41.00	BA	149.00	PB	-2.00
SiO2	0.00								
Al2O3	0.00								
Fe2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : Q2 VEIN (10cm) IN MAELU TUFF CONTAINS PY, CPY COVELLITE

==== F A L C O N B R I D G E L T D ====
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REPORT #1000

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SAMPLE ID # A003841 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 82140SC026 PROJECT # 1140
TOWNSHIP : LOT : 0
CONCESSION : PROVINCE : BRITISH COLUMBIA
NTS : 92J03 PROJECT : NORTHAIR
UTM ZONE : 10
GRID COORDINATES : E : 491533.2 N : 5552304.0 EL : 0.0
SAMPLE TYPE : BRILL HOLE
DDH : 5-3-81 START DEPTH : 384.00 END DEPTH : 384.00

FIELD NAME : SEDIMENTARY , ARGILLITE , CLAY , GRAPHITIC.
FINAL NAME :
ALTERATION :
MINERALIZATION :
FORMATION :

SAMPLED BY : S CLEMMER DATE : 17-AUG-87
ANALYZED BY : BONDAR DATE : 08-SEP-87
ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	40.00	FB	3.00	ZN	52.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	1600.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : GRAPH ARGILLITE & ARGILL. ARENITE

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 09:53:25

SAMPLE ID # ADO3837 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 87140SC022 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 491604.4 N : 5553279.0 EL : 0.0
 SAMPLE TYPE : DRILL HOLE
 DDH : 5-3-81 START DEPTH : 61.00 END DEPTH : 61.00

FIELD NAME : VOLCANICLASTIC, INTERMEDIATE, ASH, MASSIVE.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : S CLEMMER DATE : 17-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PB, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	33.00	PB	-2.00	ZN	250.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	290.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : MAGNETITE-BEARING VOLCANIC ARENITE

REPORT #2000

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SAMPLE ID # A003833 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 87140SC017 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493394.0 N : 5550526.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,MASSIVE.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING.
 MINERALIZATION : DISSEMINATED AND BLENDS,1-5Z,PYRITE.
 FORMATION :

SAMPLED BY : S CLEMMER DATE : 16-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	74.00	PB	2.00	ZN	100.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	270.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLEACH QIZ-FELD-MATRIX ARENITE

REPORT #1000

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SAMPLE ID # A003834 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 871405C016A PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492194.1 N : 5550714.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI,MASSIVE.
 FINAL NAME :
 ALTERATION : PERVASIVE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : S CLEMMER DATE : 16-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	41.00	PB	8.00	ZN	86.00	AG	-0.10
Al2O3	0.00	AU	5.00	BA	990.00				
Fe2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO3	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : ARGILLACEOUS TUFF

REPORT #2000

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SAMPLE ID # A808830 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 8714090015 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492317.0 N : 5550473.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI,MASSIVE.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLENDS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : S CLEMMER DATE : 16-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	64.00	PB	5.00	ZN	108.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	650.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : FR. GREY ARGILLACEOUS TUFE

REPORT #3000

PAGE 1

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SAMPLE ID # A003826 WHOLE ROCK GEOCHEMICAL ANALYSIS 09:51:59

 LAB REPORT # 127-6755 FIELD NUMBER : 871405C011 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493736.0 N : 5552752.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI.
 FINAL NAME :
 ALTERATION : PERVASIVE ,CHLORITIZATION.
 MINERALIZATION : DISSEMINATED AND BLENDS,<1% ,CHALCOPYRITE.
 FORMATION :

SAMPLED BY : S CLEMMER DATE : 11-AUG-87
 ANALYZED BY : BUNDAE DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	45400.00	PB	147.00	ZN	810.00	AG	66.90
AL2O3	0.00	AU	130.00	BA	-20.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : EPY DISS IN CHLORITIC VOLCANIC

==== F A L C O N B R I D G E L T D =====
 === EXPLORATION DIVISION ===

REPORT 13000

PAGE 1
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SAMPLE ID # A03825 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 87140SC010 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 22J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493757.0 N : 5553706.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI,MATRIX SUPPORTED.
 FINAL NAME :
 ALTERATION : PERVASIVE ,CHLORITIZATION.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,SPHALEERITE.
 FORMATION :

SAMPLED BY : S CLEMMER DATE : 11-AUG-87
 ANALYZED BY : BUNDAE DATE : 09-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SiO2	0.00	CU	77.00	PB	50.00	ZN	44000.00	AG	4.60
AL2O3	0.00	AU	80.00	BA	100.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
H2O	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SP IN CHLORITIC VOLCANIC CJ SHOWING

==== F A L C O N B R I D G E L T D =====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
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SAMPLE ID # A003823 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 87140SC008A PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492341.2 N : 5550183.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLENDS, CLZ ,CHALCOPYRITE.
 FORMATION :

SAMPLED BY : S CLEMMER DATE : 14-AUG-87
 ANALYZED BY : BONDAK DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PB,LR,OS,RH,RU,HG (P.P.B.)			
SiO2	0.00	CU	960.00	PR	3.00	ZN	86.00	AG	2.20
AL2O3	0.00	AU	15.00	BA	670.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : FELDSPAR SL. TUFF MATRIX MINOR QTY IN CLEAVAGE

REPORT #2000

PAGE 1
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SAMPLE ID # A808821 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 87140SC006 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NIS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 490212.9 N : 5553266.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY ,ARGILLITE ,SILT,MASSIVE ,GRAPHITIC.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLEBS.1-5%,PYRITE.
 FORMATION :

SAMPLED BY : S CLEMMER DATE : 12-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)					
SI02	0.00	CU	111.00	PB	3.00	ZN	78.00	AG	0.50
AL2O3	0.00	AU	10.00	BA	960.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
BNO	0.00								
S	0.00								
N10	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : GRAPHITIC PYRITIC SILTY ARGILLITE

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SAMPLE 10 # A003820 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 871403C005 PROJECT # 1140
 TOWNSHIP : LUT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 490335.0 N : 5553298.0 EL : 0.0
 SAMPLE TYPE : GRAVE SAMPLE

FIELD NAME : SEDIMENTARY ,ARGILLITE ,SILT,MASSIVE.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLEDERS,1-52,PYRITE.
 FORMATION :

SAMPLED BY : S CLEMMER DATE : 12-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SiO2	0.00	CU	100.00	PB	4.00	ZN	1400.00	AG	0.40
AL2O3	0.00	AU	-5.00	BA	200.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : GREY PYRITIC SILTY ARGILLITE

REPORT #2000

PAGE 1
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SAMPLE ID # A803819 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-6755 FIELD NUMBER : 87140SC004 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 490362.7 N : 5553296.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY , ARGILLITE , SILT , MASSIVE , GRAPHITIC.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLEBS , 1-5% , PYRITE.
 FORMATION :

SAMPLED BY : S CLEMMER DATE : 12-AUG-87
 ANALYZED BY : BONDAP DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	63.00	PR	-2.00	ZN	143.00	AG	0.50
AL2O3	0.00	AU	-5.00	BA	890.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
Mg0	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO3	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : GRAPHITIC PYRITIC SILTY ARGILLITE

REPORT #2000

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SAMPLE ID # AD03818 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 87140SC003 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 490384.7 N : 5553305.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY , ARGILLITE , SILT, MASSIVE.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLENDS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : S CLEMMER DATE : 12-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CH	62.00	PR	2.00	ZN	69.00	AG	0.70
AL2O3	0.00	AU	-5.00	BA	270.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
AND	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : PYRITIC SILTY ARGILLITE

REPORT #1000

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SAMPLE ID # A008817 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-6755 FIELD NUMBER : 87140SC002 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 490398.2 N : 5553294.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY ,ARGILLITE ,SILT,MASSIVE.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : S CLEMMER DATE : 12-AUG-87
 ANALYZED BY : BONDAR DATE : 08-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	58.00	PB	14.00	ZN	1100.00	AG	5.80
AL2O3	0.00	AU	10.00	BA	190.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
Mg0	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO3	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : PYRITIC RUSTY SILTY ARGILLITE

==== F A L C O N B R I D G E L T D =====
 === EXPLORATION DIVISION ===

REPORT #2000

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SAMPLE ID # A808808 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28693 FIELD NUMBER : 87140EE117 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492931.3 N : 5552670.0 EL : 0.0
 SAMPLE TYPE : GRAE SAMPLE

FIELD NAME : VEIN, QUARTZ PLUS CARBONATE , COARSE.
 FINAL NAME :
 ALTERATION : UNKNOWN , EPIDOTIZATION , LOOK AT COMMENTS.
 MINERALIZATION : MIL.
 FORMATION :

SAMPLED BY : E BARKER DATE : 20-JUL-87
 ANALYZED BY : XRAL DATE : 14-AUG-87
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES		TRACE ELEMENTS (P.P.M.)							
WT %	AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)								
SiO2	0.00	CU	13000.00	ZN	56000.00	BA	30.00	PB	140000.00
AL2O3	0.00								
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
HfO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : VEIN 4 CM WIDE GALENA CHALCOP SPHAL MALACH LIMON

==== F A L C O N B R I D G E L T D ====
 === EXPLORATION DIVISION ===

REPORT # 1000

PAGE 1
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SAMPLE ID # A003807 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28692 FIELD NUMBER : 87140EB112 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493789.6 N : 5552789.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, MAFIC, ASH.
 FINAL NAME :
 ALTERATION : PERVASIVE, PROPYLITIZATION, WEAK.
 MINERALIZATION : STEINBERGERS, 5-20% CHALCOPYRITE.
 FORMATION :

SAMPLED BY : E BARKER DATE : 17-JUL-87
 ANALYZED BY : XRAL DATE : 14-AUG-87
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	39000.00	ZN	350.00	BA	-10.00	PB	460.00
AL2O3	0.00								
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS :

REPORT #2000

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SAMPLE ID # A003606 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 28692 FIELD NUMBER : 87140ER089 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492963.9 N : 5551960.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC,CRYSTAL.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,MODERATE.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : E BARKER DATE : 14-JUL-87
 ANALYZED BY : XRAL DATE : 14-AUG-87
 ANALYTICAL TECHNIQUE : X-RAY FLUORESCENCE

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	7.50	ZN	27.00	BA	752.00	PB	-2.00
AL2O3	0.00								
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : OTHER MINERALIZATION ?

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SAMPLE ID # A000790 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-8438 FIELD NUMBER : 87140EG532 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493283.3 N : 5553616.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5Z,PYRITE.
 FORMATION :

SAMPLED BY : E GRILL DATE : 28-SEP-87
 ANALYZED BY : BONDAP DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	37.00	PE	2.00	ZN	165.00	AG	-0.10
AL2O3	0.00	AU	-5.00	BA	630.00				
FE2O3	0.00								
FEU	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
RND	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : INTENSE LIMONITIC FRACTURE ALTERATION OF ESP CRYSTAL TUFF WITH 5Z PY

==== F A L C O N B R I D G E L T D ====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
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SAMPLE ID # AC00988 WHOLE ROCK GEOCHEMICAL ANALYSIS 09:48:54

 LAB REPORT # 107-8438 FIELD NUMBER : 8714066530 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 MTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493487.9 N : 5553624.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC,MAFIC PORPHYRITIC ,CRYSTAL.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : E GRILL DATE : 28-SEP-87
 ANALYZED BY : BONDAR DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.B.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	38.00	PK	31.00	ZN	71.00	AG	0.40
AL2O3	0.00	AU	5.00	BA	350.00				
FE2O3	0.00								
FEU	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
PbO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : RUSTY WEATHERING FALE GREY ALTERED CRYSTAL TUFF WITH 5% DISSEMINATED PY

REPORT #2000

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SAMPLE ID # AC00916 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-8438 FIELD NUMBER : 87140EG444 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493077.1 N : 5551665.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,LAPILLI,FELDSPAR PORPHYRITIC,MATRIX SUPPORTED,CRYSTAL.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 20-SEP-87
 ANALYZED BY : BONDAF DATE : 20-OCT-87
 ANALYTICAL TECHNIQUE : AA+FA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,IR,OS,RH,RU,HG (P.P.B.)							
SI02	0.00	CU	22.00	PB	5.00	ZN	19.00	AG	0.20
AL2O3	0.00	AU	5.00	RA	1500.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MG0	0.00								
NA2O	0.00								
K2O	0.00								
TIO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
N10	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BLEACH ESP CRYSTAL TUFF WITH 5% DISSEM PYRITE, VERY RUSTY FRACTURE

==== F A L C O N B R I D G E L T D ====
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REPORT #3000

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SAMPLE ID # AC00897 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7680 FIELD NUMBER : 87140EG425 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493673.6 N : 5551828.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC,MATRIX SUPPORTED,CRYSTAL.
 FINAL NAME :
 ALTERATION : IN SITU BRECCIATION ,SILICIFICATION,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 16-SEP-87
 ANALYZED BY : BONDAF DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PB,1R,OS,KH,RU,HG (P.P.B.)					
SiO2	0.00	CU	275.00	PB	49.00	ZN	151.00	AG	8.10
AL2O3	0.00	AU	90.00	BA	1200.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BRECCIATED AND SILICIFIED ESP CRYSTAL TUFF 5-10% PY

==== FALCONBRIDGE LTD =====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
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SAMPLE ID # AC00896 WHOLE ROCK GEOCHEMICAL ANALYSIS 09:48:08

 LAB REPORT # 127-7680 FIELD NUMBER : 87140EG424 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493673.9 N : 5551827.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC,MATRIX SUPPORTED,CRYSTAL.
 FINAL NAME :
 ALTERATION : PERVASIVE ,CHLORITIZATION,STRONG.
 MINERALIZATION : DISSEMINATED AND BLENDS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 16-SEP-87
 ANALYZED BY : BONDAR DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SiO2	0.00	CH	37.00	PR	14.00	ZN	88.00	AG	2.00
Al2O3	0.00	AU	5.00	BA	930.00				
Fe2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO3	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : BROWN WEATHERING CRYSTAL TUFF CUT BY FINE NETWORK OF QTZ STRINGERS, 10%
 DISSEM FY

==== F A L C O N B R I D G E L T D =====
 === EXPLORATION DIVISION ===

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SAMPLE ID # AC00856 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7680 FIELD NUMBER : 87140E6386 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494908.2 N : 5553220.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY ,ARGILLITE ,CLAY.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,MODERATE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 11-SEP-87
 ANALYZED BY : BONDAR DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : AA+FA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	19.00	PB	6.00	ZN	48.00	AG	0.30
AL2O3	0.00	AU	-5.00	BA	930.00				
FE2O3	0.00								
FE0	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : RUSTY WEATHERING ARGILLITE WITH RIZ VEINS AND GREY SILICEOUS SILTSTONE

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SAMPLE ID # AC00857 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7680 FIELD NUMBER : 87140EG385 PROJECT # 1140
 TOWNSHIP : LBT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 HTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494520.6 N : 5554618.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY ,ARGILLITE ,CLAY.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,MODERATE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 11-SEP-87
 ANALYZED BY : BONDAR DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)		AU,RE,PT,PI,IR,OS,KH,KU,HG (P.P.B.)					
SiO2	0.00	CU	48.00	PR	2.00	ZN	57.00	AG	0.20
AL2O3	0.00	AU	-5.00	BA	930.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : RUSTY WEATHERING SILTY ARGILLITE

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SAMPLE ID # A000553 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7680 FIELD NUMBER : 87140EG381 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494685.8 N : 5554501.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY ,ARGILLITE ,CLAY.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,MODERATE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 11-SEP-87
 ANALYZED BY : BONDAR DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR		TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
OXIDES	WT %								
SiO2	0.00	CU	29.00	PB	5.00	ZN	72.00	AG	0.20
AL2O3	0.00	AU	-5.00	BA	770.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SILTY GREY ARGILLITE WITH RUSTY WEATHERING FRACTURES

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SAMPLE ID # A600849 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7680 FIELD NUMBER : 87140EG376 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 HTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 495006.9 N : 5550442.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, OTHER, ASH.
 FINAL NAME :
 ALTERATION : PERVASIVE, BLEACHING, WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 10-SEP-87
 ANALYZED BY : BONDAN DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)			AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)				
SiO2	0.00	CU	4.00	PB	15.00	ZN	66.00	AG	0.10
Al2O3	0.00	AU	5.00	BA	600.00				
Fe2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : WHITE PHYLLITIC ROCK 4% DISSEM BY RUSTY FRACTURE AND PARTING

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SAMPLE ID # AC00840 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7680 FIELD NUMBER : 8714086375 PROJECT # 1140
 TOWNSHIP : LQT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 MTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494815.1 N : 5550433.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, MAEIC, ASH, FELDSPAR PORPHYRITIC, MATRIX SUPPORTED, CRYSTAL.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED, SULPHIDE ALTERATION, WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS, <1% PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 10-SEP-87
 ANALYZED BY : BUNDAK DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : AA+FA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	20.00	PB	3.00	ZN	47.00	AG	0.20
AL2O3	0.00	AU	-5.00	BA	770.00				
FE2O3	0.00								
FEU	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
BNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SLIGHTLY RUSTY FSP CRYSTAL TUPE

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SAMPLE ID # A000477 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7680 FIELD NUMBER : 87140EG374 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494668.2 N : 5550463.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY ,ARGILLITE ,SILT.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,WEAK.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 10-SEP-87
 ANALYZED BY : BONDAR DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.)				AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)			
SiO2	0.00	CU	27.00	PB	14.00	ZN	29.00	AG	0.80
AL2O3	0.00	AU	5.00	BA	920.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO3	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : GREY PHYLITIC (SILTY) ROCK VERY FINE GRAINED DISSEM PY

==== F A L C O N B R I D G E L T D =====
 === EXPLORATION DIVISION ===

REPORT #2000

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SAMPLE ID # ACO0842 WHOLE ROCK GEOCHEMICAL ANALYSIS

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 LAB REPORT # 127-7680 FIELD NUMBER : 87140EG369 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492768.5 N : 5554164.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY , SANDSTONE AND WACKE , SAND.
 FINAL NAME :
 ALTERATION : UNKNOWN.
 MINERALIZATION : DISSEMINATED AND BLENDS, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 09-SEP-87
 ANALYZED BY : BONDAR DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	55.00	PB	9.00	ZN	124.00	AG	0.30
AL2O3	0.00	AU	-5.00	BA	250.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
Mg0	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
Ni0	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SED APPEARANCE BUT CONTAINS DARK ANGULAR FRAGMENTS UNKNOWN BLUE MINERAL
 GIVES ROCK A BLuish TINT

==== F A L C O N B R I D G E L T D =====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
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 09:46:07

SAMPLE ID # ACO0628 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7680 FIELD NUMBER : 87140EG355 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492743.5 N : 5554492.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, MAEIC, ASH.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED, SULPHIDE ALTERATION, STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS, 5-20% , PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 08-SEP-87
 ANALYZED BY : RONDAE DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	56.00	PB	420.00	ZN	79.00	AG	5.90
AL2O3	0.00	AU	25.00	BA	310.00				
FE2O3	0.00								
FEU	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : 1 m WIDE RUSTY ZONE IN ARGILLACEOUS ESP CRYSTAL TUFF WITH 5-30% DISSEM
 P7

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 09:45:51

SAMPLE ID # A000827 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7680 FIELD NUMBER : 97140E6354 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492692.2 N : 5554474.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC,MATRIX SUPPORTED,CRYSTAL.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,EPIDOTIZATION ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS,5-20% ,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 08-SEP-87
 ANALYZED BY : BONDAR DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
S102	0.00	CU	240.00	PB	43.00	ZN	305.00	AG	1.20
AL2O3	0.00	AU	-5.00	BA	580.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
H10	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : ARGILLACEOUS ESP CRYSTAL TUFF OR BRECCIA 5-15% DISSEM PY

REPORT #3000

PAGE 1
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SAMPLE ID # A000826 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7680 FIELD NUMBER : 8714066353 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 492673.4 N : 5554476.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC,MATRIX SUPPORTED,CRYSTAL.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,EPIDOTIZATION ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLENDS,1-5%.PYRITE PLUS CHALCOPYFITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 08-SEP-87
 ANALYZED BY : BONDAV DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	965.00	PB	3.00	ZN	675.00	AG	1.40
AL2O3	0.00	AU	10.00	BA	330.00				
FE3O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : ARGILLACEOUS ESP CRYSTAL TUFF OR BRECCIA WITH LOCAL MINOR PY TRACE CPY

==== F A L C O N B R I D G E L T D =====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
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SAMPLE ID # AC00822 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7680 FIELD NUMBER : 87140EG349 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 496084.7 N : 5552307.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : OTHER ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEDERS,1-5%.PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 04-SEP-87
 ANALYZED BY : BONDAF DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	15.00	PB	3.00	ZN	13.00	AG	0.20
AL2O3	0.00	AU	-5.00	BA	1100.00				
FE2O3	0.00								
FeO	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SILICIFIED ROCK OF UNCERTAIN ORIGIN NEAR INTRUSIVE 2-4% PY RUSTY WEATHERING

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 09:45:09

SAMPLE ID # A000819 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7680 FIELD NUMBER : 87140E6346 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494993.1 N : 5552751.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY ,ARGILLITE ,CLAY,BEDDED.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLENDS,<1% ,PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 04-SEP-87
 ANALYZED BY : BONDAR DATE : 08-OCT-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	46.00	PB	7.00	ZN	73.00	AG	0.20
AL2O3	0.00	AU	-5.00	BA	790.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
Fe2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : RUSTY ARGILLITE TRACE PY

REPORT #3000

PAGE 1
 PRINTED 14-JAN-88
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SAMPLE ID # AC00910 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 87140E6334 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494012.9 N : 5551874.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANIC ELASTIC, MAEIC, ASH, FELDSPAR PORPHYRITIC, MATRIX SUPPORTED, CRYSTAL.
 FINAL NAME :
 ALTERATION : PERVASIVE, PROPYLITIZATION, STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS, 1-5%, SPHALERITE PLUS CHALCOPYRITE.
 FORMATION :

SAMPLED BY : E GRILL DATE : 03-SEP-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	235.00	PB	7.00	ZN	24300.00	AG	0.40
AL2O3	0.00	AU	-5.00	BA	200.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SHEAR ZONE IN ESP CRYSTAL TUFF CONTAINING VISIBLE CPY, SPH, MAG

==== F A L C O N B R I D G E L T D =====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
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SAMPLE ID # AC00809 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 8714066333 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494042.1 N : 5551884.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY , SANDSTONE AND WACKE , SILT.
 FINAL NAME :
 ALTERATION : PERVASIVE , EPIDOTIZATION , MODERATE.
 MINERALIZATION : STRINGERS , <1% , CHALCOPYRITE.
 FORMATION :

SAMPLED BY : E GRILL DATE : 03-SEP-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR		TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
OXIDES	WT %								
SiO2	0.00	CU	935.00	PR	3.00	ZN	148.00	AG	1.00
AL2O3	0.00	AU	-5.00	BA	1200.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : EPIDOTIZE ALTERED (SILTSTONE)? WITH STRINGER OF CPY CUTTING IT

REPORT #2000

PAGE 1
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SAMPLE ID # A000808 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-2408 FIELD NUMBER : 87140E6313 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494239.7 N : 5551215.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : OTHER ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : PERVASIVE ,BLEACHING ,STRONG.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : E GRILL DATE : 28-AUG-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	30.00	PB	26.00	ZN	50.00	AG	0.40
AL2O3	0.00	AU	-5.00	BA	1700.00				
FE2O3	0.00								
FE0	0.00								
CAO	0.00								
MGO	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MNO	0.00								
S	0.00								
HIO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : PALE RUSTY APHANITIC ROCK

==== F A L C O N B R I D G E L T D ====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
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SAMPLE ID # AC00807 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 107-7408 FIELD NUMBER : 87140EG306 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494438.1 N : 5551545.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : SEDIMENTARY , SANDSTONE AND WACKE , SILT.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED, SULPHIDE ALTERATION , MODERATE.
 MINERALIZATION : DISSEMINATED AND BLES, 1-5%, PYRITE.
 FORMATION :

SAMPLED BY : E GRILL DATE : 28-AUG-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	48.00	PB	8.00	ZN	17.00	AG	0.30
AL2O3	0.00	AU	5.00	BA	1100.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
H2O	0.00								
CO2	0.00								
CO3	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : GREY SILTSTONE WITH 5% PY

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88

SAMPLE ID # AC00806 WHOLE ROCK GEOCHEMICAL ANALYSIS 09:44:00

 LAB REPORT # 127-7408 FIELD NUMBER : 87140EG303 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92103 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494522.8 N : 5551603.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : OTHER ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : PERVASIVE ,SULPHIDE ALTERATION ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEDERS ,SIZ ,PYRITE.
 FORMATION :

SAMPLED BY : E GRILL DATE : 27-AUG-87
 ANALYZED BY : RONDAE DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PB,FR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	99.00	FB	13.00	ZN	33.00	AG	0.20
AL2O3	0.00	AU	10.00	BA	1300.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NIQ	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : RUSTY BLEACHED ROCK AMONGST FSP CRYSTAL TUFTS

==== F A L C O N B R I D G E L T D =====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1
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SAMPLE ID # A000005 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7408 FIELD NUMBER : 87140EG301 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494707.4 N : 5551660.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELOSPAR PORPHYRITIC,MATRIX SUPPORTED,CRYSTAL.
 FINAL NAME :
 ALTERATION : PERVASIVE ,EPIDOTIZATION ,STRONG.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5%,PYRITE.
 FORMATION :

SAMPLED BY : E GRILL DATE : 27-AUG-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	16.00	PB	5.00	ZN	89.00	AG	0.20
AL2O3	0.00	AU	-5.00	BA	460.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO3	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : EPIDOTIZED ESP CRYSTAL TUFF 4% PY

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 09:43:32

SAMPLE ID # AC00803 WHOLE ROCK GEOCHEMICAL ANALYSIS

 LAB REPORT # 127-7408 FIELD NUMBER : 87140EG299A PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 92J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494285.1 N : 5552124.0 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : OTHER ,LOOK AT COMMENTS.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED,SULPHIDE ALTERATION ,WEAR.
 MINERALIZATION : DISSEMINATED AND BLEBS,1-5Z,PYFITE.
 FORMATION :

SAMPLED BY : E GRILL DATE : 27-AUG-87
 ANALYZED BY : BONDAP DATE : 23-SEP-87
 ANALYTICAL TECHNIQUE : ATOMIC ABSORPTION

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	8.00	PB	8.00	ZN	51.00	AG	0.10
AL2O3	0.00	AU	-5.00	BA	1200.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
Cr2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : SILICEOUS AMPHIBOLIC ROCK WITH 5Z PY

REPORT #2000

PAGE 1
 PRINTED 14-JAN-88
 09:43:19

SAMPLE ID # AC00802 WHOLE ROCK GEOCHEMICAL ANALYSIS

LAB REPORT # 127-7408 FIELD NUMBER : 87140E5297 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 PTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 494000.9 N : 5552091.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC,MAFIC ,ASH,FELDSPAR PORPHYRITIC,MATRIX SUPPORTED,CRYSTAL.
 FINAL NAME :
 ALTERATION : PERVASIVE ,EPIDOTIZATION ,MODERATE.
 MINERALIZATION : NIL.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 27-AUG-87
 ANALYZED BY : BONDAE DATE : 23-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU,RE,PT,PD,IR,OS,RH,RU,HG (P.P.B.)							
SiO2	0.00	CU	195.00	PB	9.00	ZN	108.00	AG	0.40
AL2O3	0.00	AU	5.00	BA	970.00				
FE2O3	0.00								
FeO	0.00								
CaO	0.00								
MgO	0.00								
Na2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
MnO	0.00								
S	0.00								
NiO	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

COMMENTS : CALCAREOUS PHYLITIC FSP CRYSTAL TUFF

==== E A L C O N B R I D G E L T D =====
 === EXPLORATION DIVISION ===

REPORT #2000

PAGE 1

SAMPLE ID # AC00801 WHOLE ROCK GEOCHEMICAL ANALYSIS

PRINTED 14-JAN-88

09:43:05

LAB REPORT # 127-7408 FIELD NUMBER : 87140EG295 PROJECT # 1140
 TOWNSHIP : LOT : 0
 CONCESSION : PROVINCE : BRITISH COLUMBIA
 NTS : 092J03 PROJECT : NORTHAIR
 UTM ZONE : 10
 GRID COORDINATES : E : 493964.4 N : 5551856.5 EL : 0.0
 SAMPLE TYPE : GRAB SAMPLE

FIELD NAME : VOLCANICLASTIC, MAEIC, ASH.
 FINAL NAME :
 ALTERATION : FRACTURE CONTROLLED, SULPHIDE ALTERATION, STRONG.
 MINERALIZATION : DISSEMINATED AND BLENDS, 1-SZ, PYRITE.
 FORMATION :

SAMPLED BY : ERIC GRILL DATE : 25-AUG-87
 ANALYZED BY : BONDAR DATE : 22-SEP-87
 ANALYTICAL TECHNIQUE : AA+EA

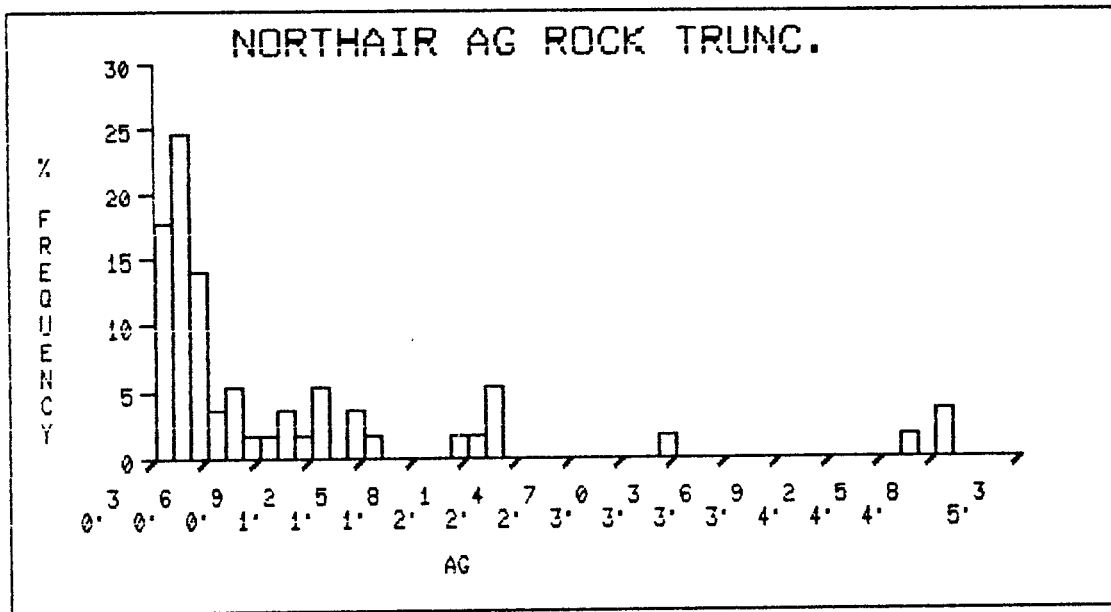
MAJOR OXIDES	WT %	TRACE ELEMENTS (P.P.M.) AU, RE, PT, PD, IR, OS, RH, RU, HG (P.P.B.)							
SiO2	0.00	CU	18.00	PB	6.00	ZN	42.00	AG	0.30
AL2O3	0.00	AU	5.00	BA	140.00				
FE2O3	0.00								
FE0	0.00								
CA0	0.00								
MG0	0.00								
NA2O	0.00								
K2O	0.00								
TiO2	0.00								
P2O5	0.00								
RNO	0.00								
S	0.00								
H10	0.00								
CR2O3	0.00								
CO2	0.00								
H2O+	0.00								
CO2	0.00								
H2O+	0.00								
H2O-	0.00								
LOI	0.00								
TOTAL	0.00								

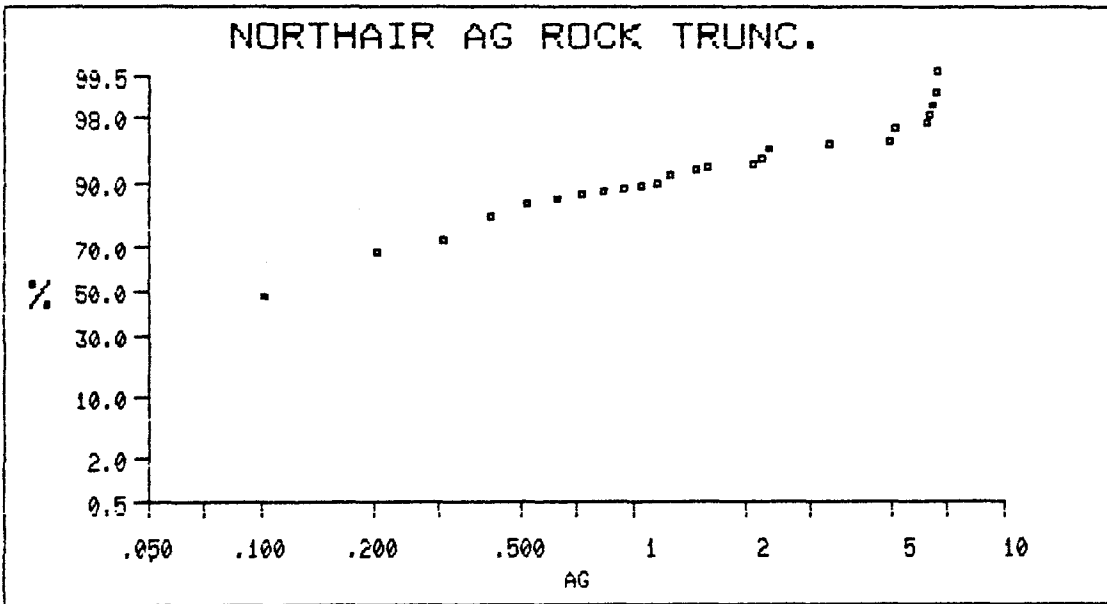
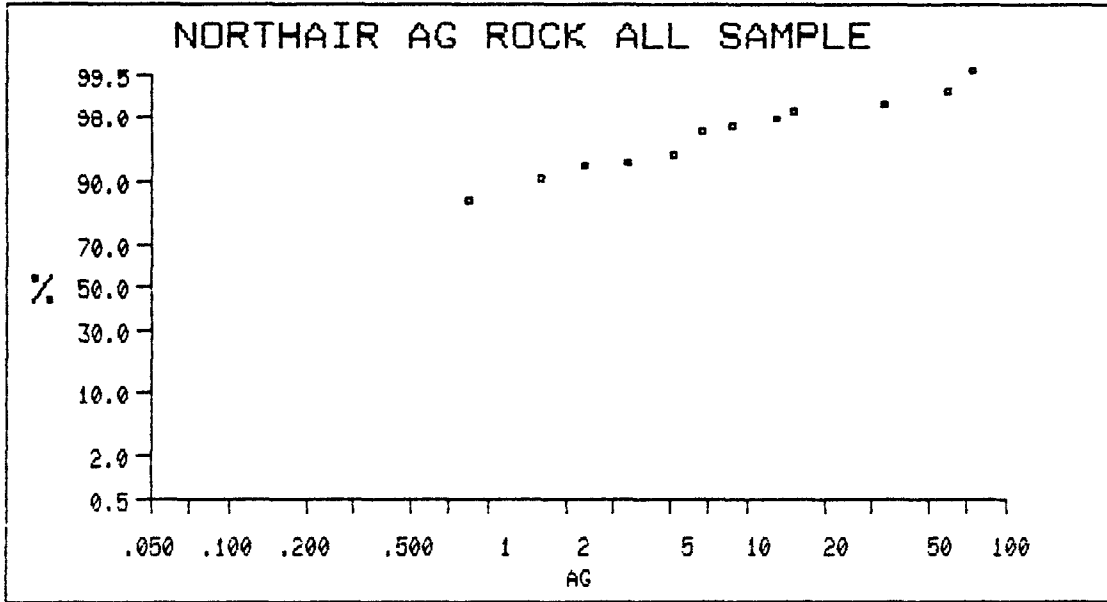
COMMENTS : RUSTY SHEAR ZONE MINOR PY

APPENDIX 5 : STATISTICS FOR ANALYTICAL DATA

NORTHAIR AG ROCK ALL SAMPLES

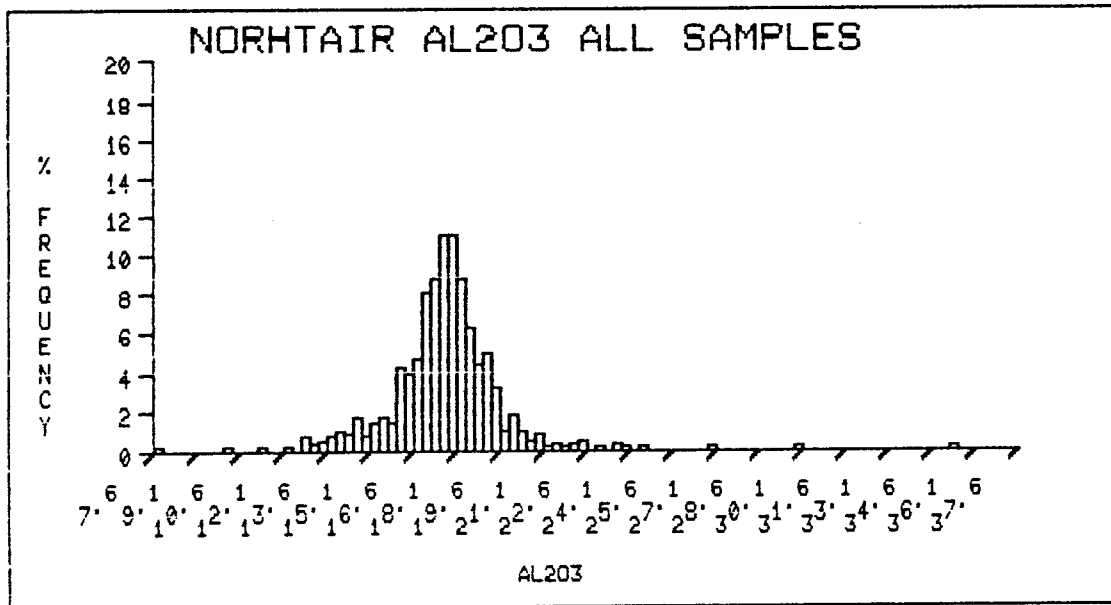
NUMBER OF SAMPLES	:	190
MINIMUM	:	0.05
MAXIMUM	:	76.10
MEAN	:	1.91
STANDARD DEVIATION	:	8.63
MEAN - 1 STD. DEV.	:	-6.72
MEAN + 1 STD. DEV.	:	10.54
MEAN + 2 STD. DEV.	:	19.17
MEDIAN	:	0.20
MODE	:	0.10
SKEWNESS	:	0.59
KURTOSIS	:	53.31
NUMBER OF CLASSES	:	50
CLASS INTERVAL	:	1.60

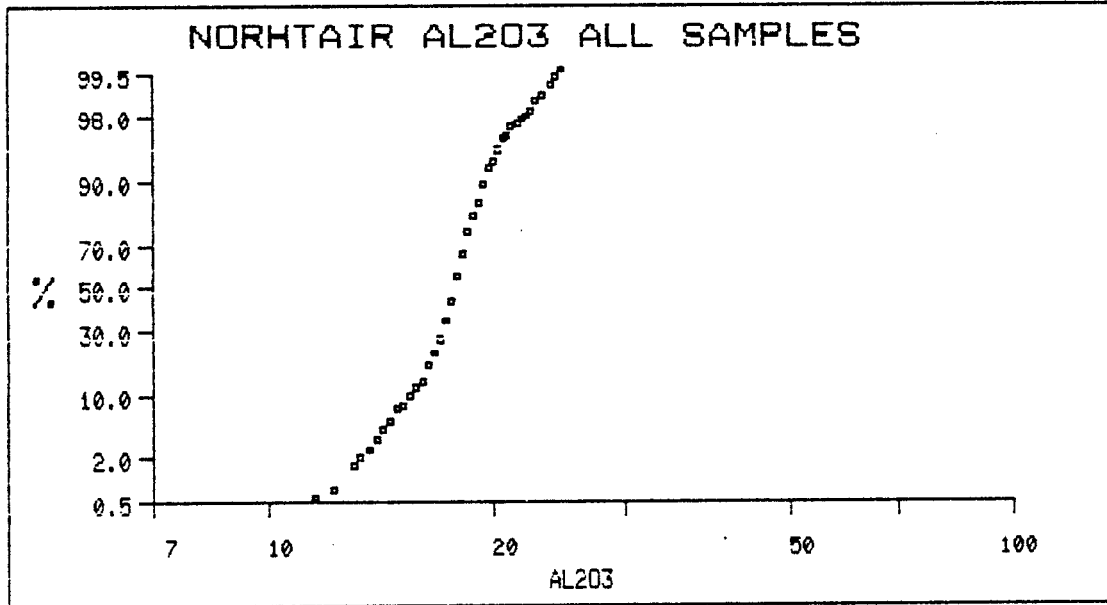




NORHTAIR AL203 ALL SAMPLES

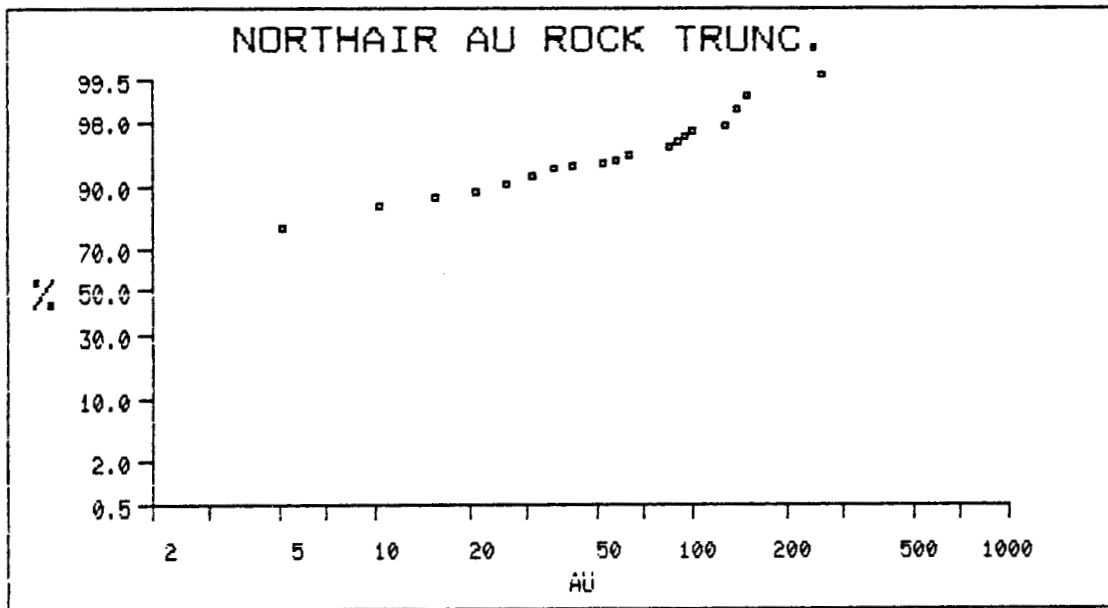
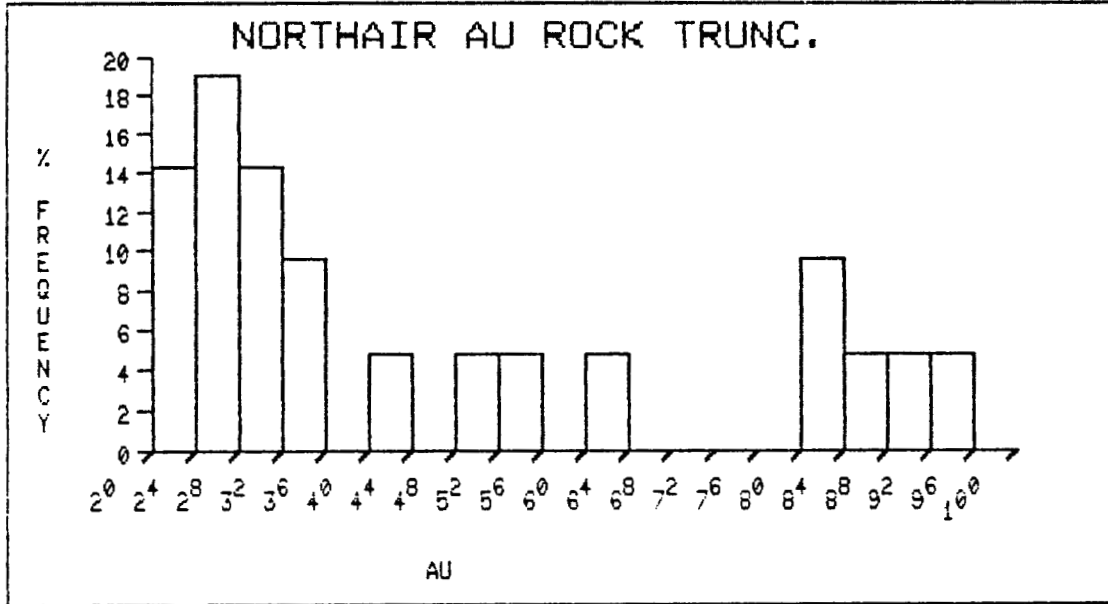
NUMBER OF SAMPLES :	546
MINIMUM :	7.60
MAXIMUM :	35.40
MEAN :	17.65
STANDARD DEVIATION :	2.04
MEAN - 1 STD. DEV. :	15.61
MEAN + 1 STD. DEV. :	19.70
MEAN + 2 STD. DEV. :	21.74
MEDIAN :	17.70
MODE :	17.50
SKEWNESS :	-0.07
KURTOSIS :	17.47
NUMBER OF CLASSES :	100
CLASS INTERVAL :	0.30





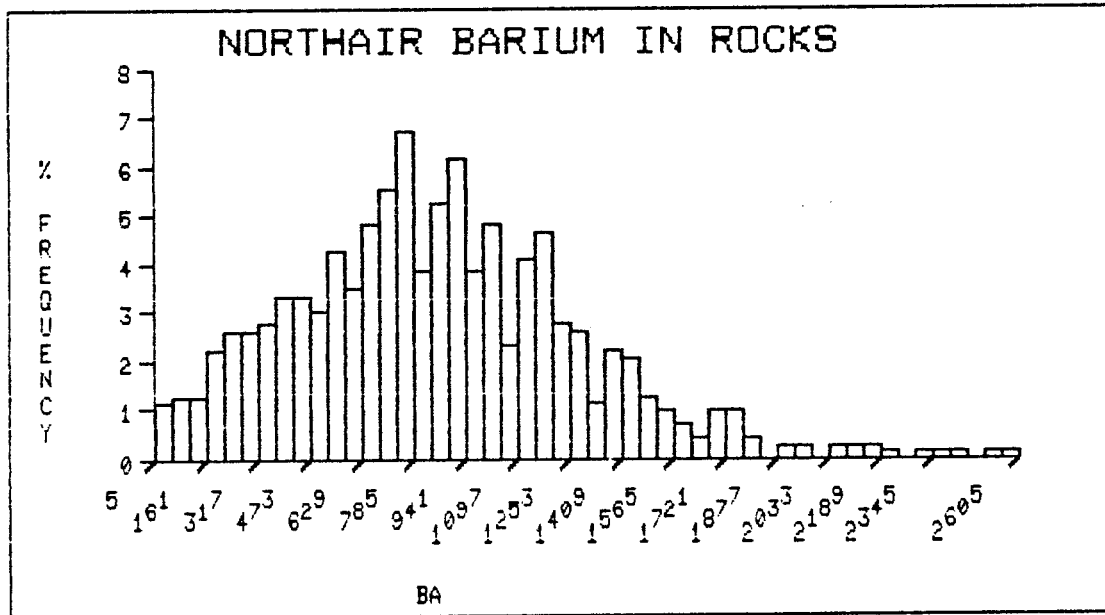
NORTHAIR AU ALL SAMPLE

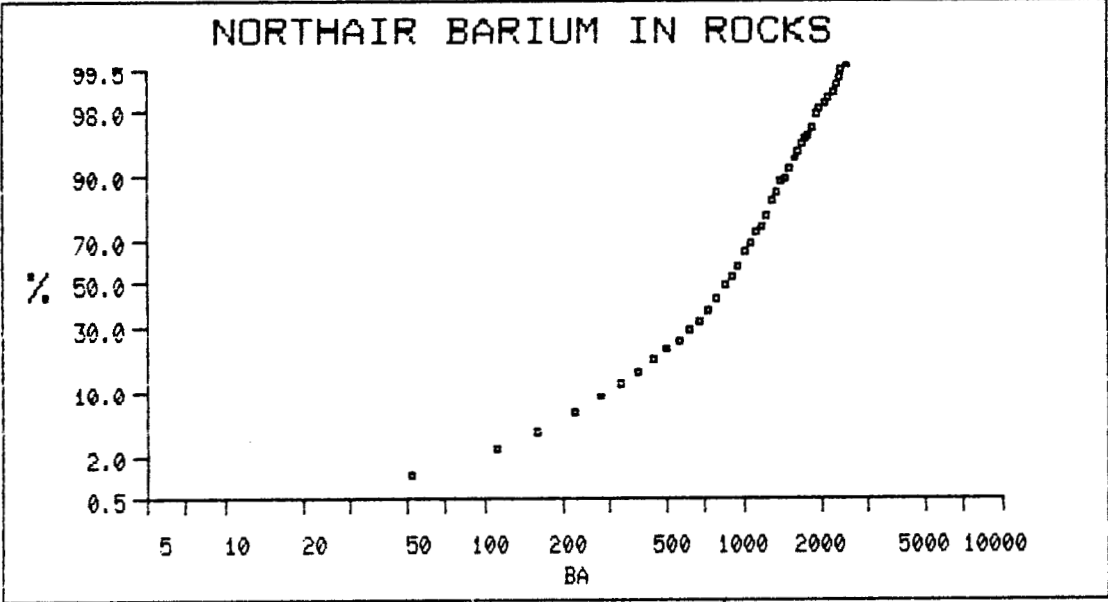
NUMBER OF SAMPLES	:	190
MINIMUM	:	2.5
MAXIMUM	:	700.0
MEAN	:	20.9
STANDARD DEVIATION	:	74.6
MEAN - 1 STD. DEV.	:	-53.7
MEAN + 1 STD. DEV.	:	95.4
MEAN + 2 STD. DEV.	:	170.0
MEDIAN	:	2.5
MODE	:	2.5
SKEWNESS	:	0.7
KURTOSIS	:	52.5
NUMBER OF CLASSES	:	100
CLASS INTERVAL	:	7.0



NORTHAIR BARIUM IN ROCKS

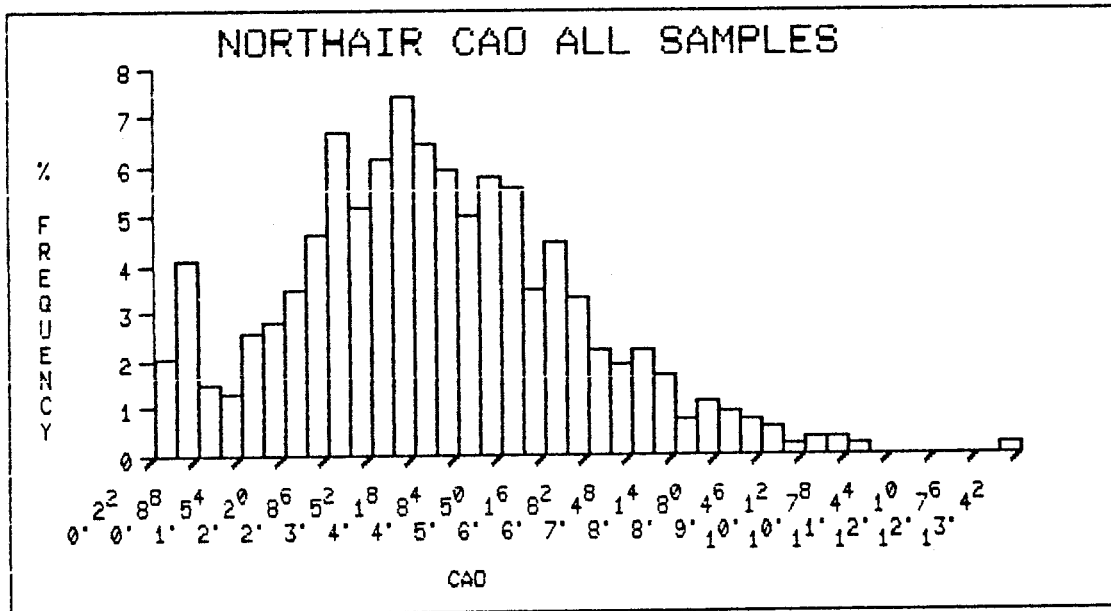
NUMBER OF SAMPLES	:	740
MINIMUM	:	5.0
MAXIMUM	:	2600.0
MEAN	:	852.1
STANDARD DEVIATION	:	433.6
MEAN - 1 STD. DEV.	:	418.5
MEAN + 1 STD. DEV.	:	1285.7
MEAN + 2 STD. DEV.	:	1719.3
MEDIAN	:	819.5
MODE	:	1200.0
SKEWNESS	:	0.2
KURTOSIS	:	3.8
NUMBER OF CLASSES	:	50
CLASS INTERVAL	:	52.0

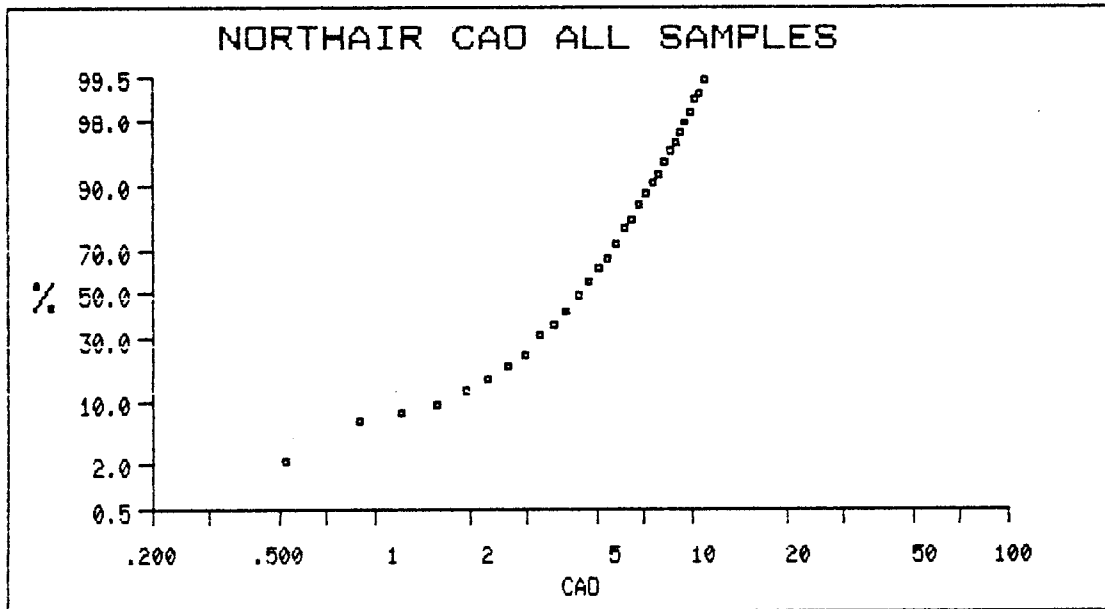




NORTHAIR CAO ALL SAMPLES

NUMBER OF SAMPLES	:	546
MINIMUM	:	0.220
MAXIMUM	:	13.300
MEAN	:	4.466
STANDARD DEVIATION	:	2.162
MEAN - 1 STD. DEV.	:	2.304
MEAN + 1 STD. DEV.	:	6.628
MEAN + 2 STD. DEV.	:	8.790
MEDIAN	:	4.340
MODE	:	2.370
SKEWNESS	:	0.175
KURTOSIS	:	3.229
NUMBER OF CLASSES	:	100
CLASS INTERVAL	:	0.140



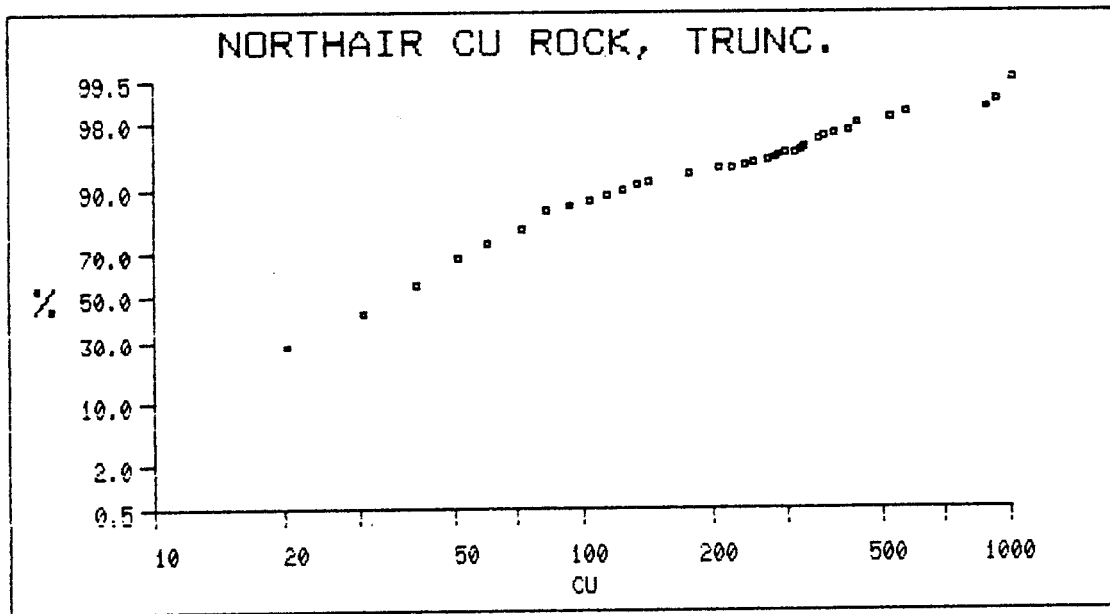
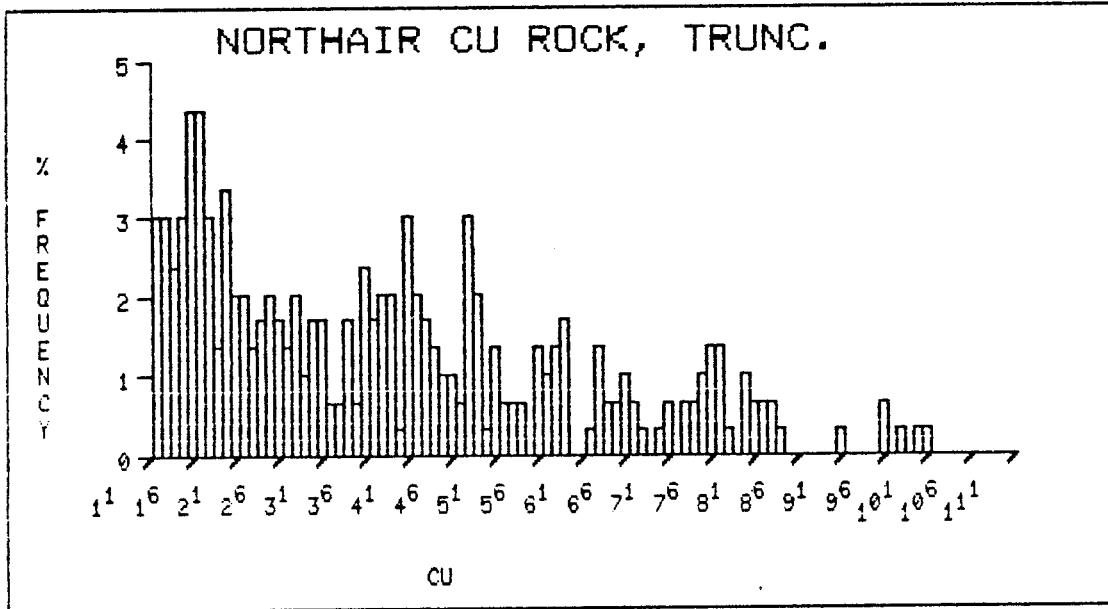


NORTHAIR CU IN ROCK ALL SAMPLE

NUMBER OF SAMPLES	:	740
MINIMUM	:	0.5
MAXIMUM	:	107500.0
MEAN	:	587.5
STANDARD DEVIATION	:	6609.1
MEAN - 1 STD. DEV.	:	-6021.6
MEAN + 1 STD. DEV.	:	7196.6
MEAN + 2 STD. DEV.	:	13905.8
MEDIAN	:	9.0
MODE	:	5.0
SKEWNESS	:	0.3
KURTOSIS	:	201.4
NUMBER OF CLASSES	:	50
CLASS INTERVAL	:	2150.0

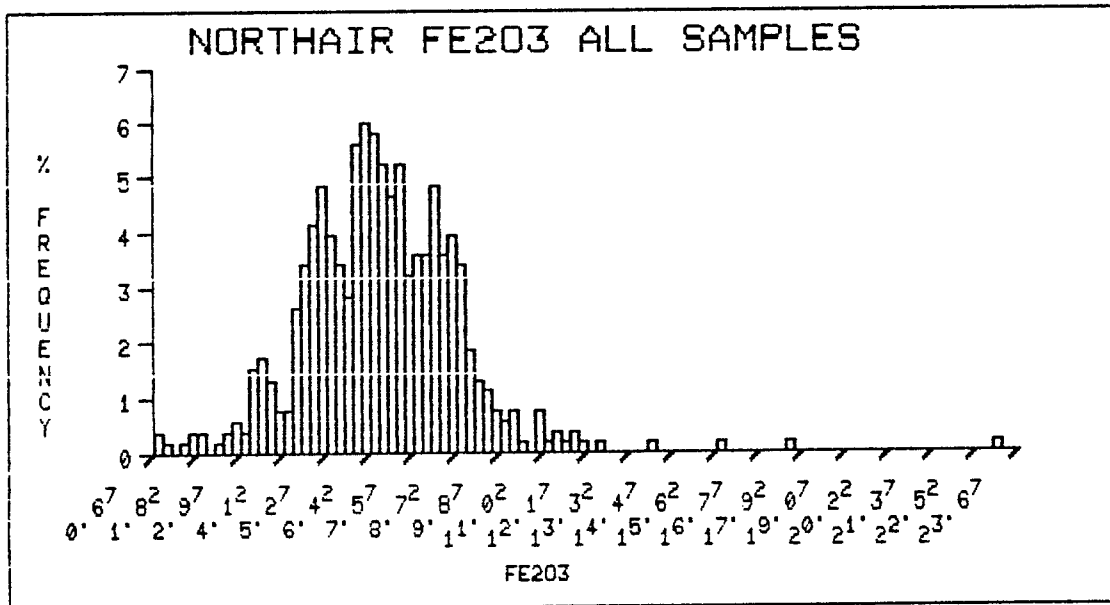
NORTHAIR CU ROCK, TRUNC.

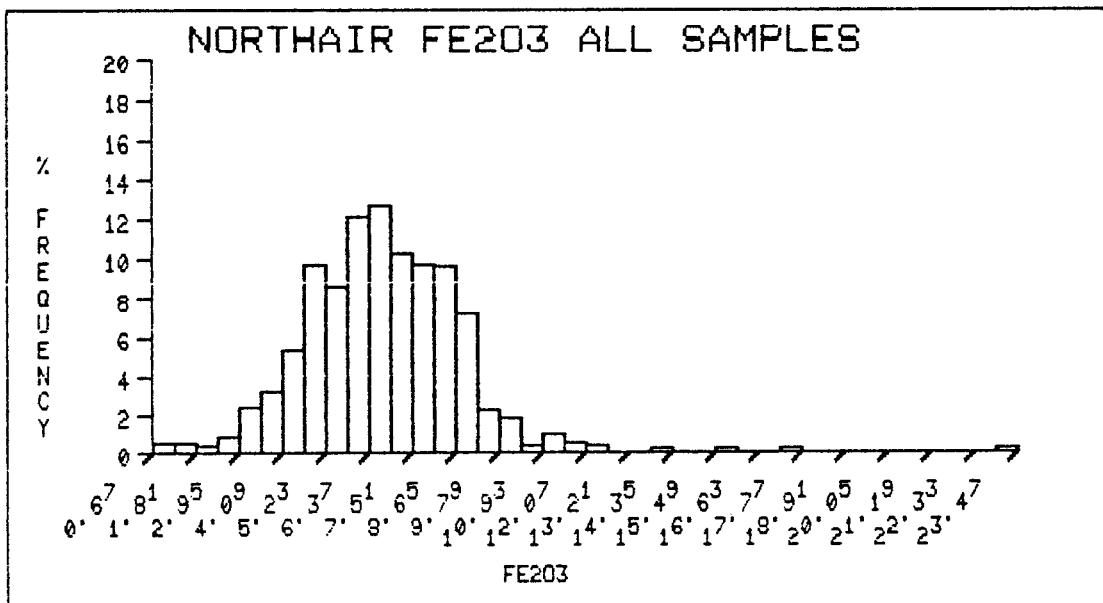
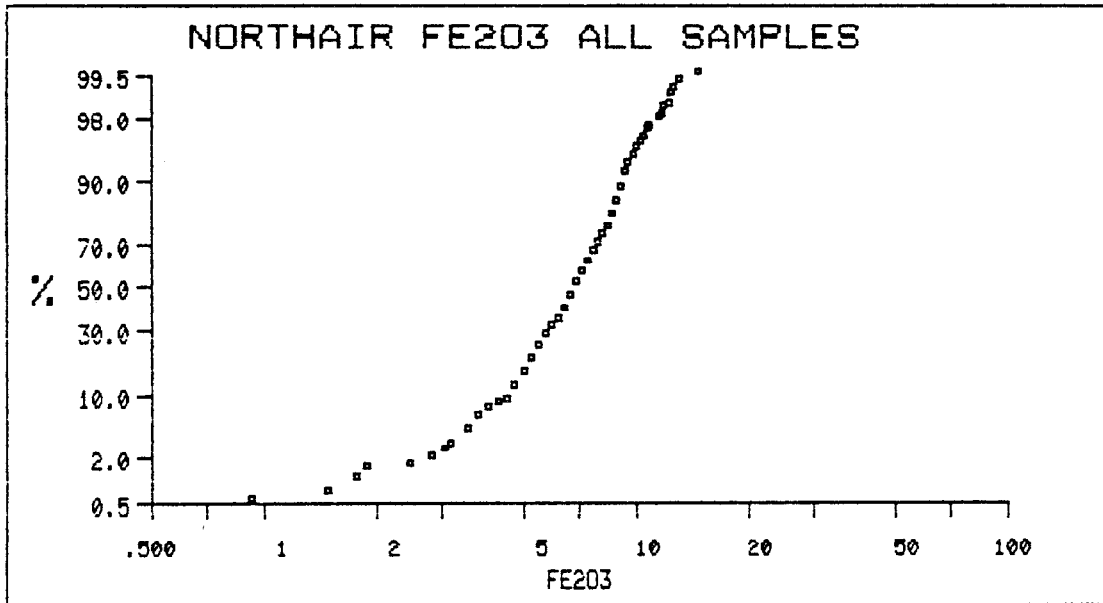
NUMBER OF SAMPLES	:	298
MINIMUM	:	11.0
MAXIMUM	:	100.0
MEAN	:	37.4
STANDARD DEVIATION	:	21.5
MEAN - 1 STD. DEV.	:	15.9
MEAN + 1 STD. DEV.	:	58.9
MEAN + 2 STD. DEV.	:	80.3
MEDIAN	:	34.5
MODE	:	15.0
SKEWNESS	:	0.4
KURTOSIS	:	2.8
NUMBER OF CLASSES	:	100
CLASS INTERVAL	:	1.0



NORTHAIR FE203 ALL SAMPLES

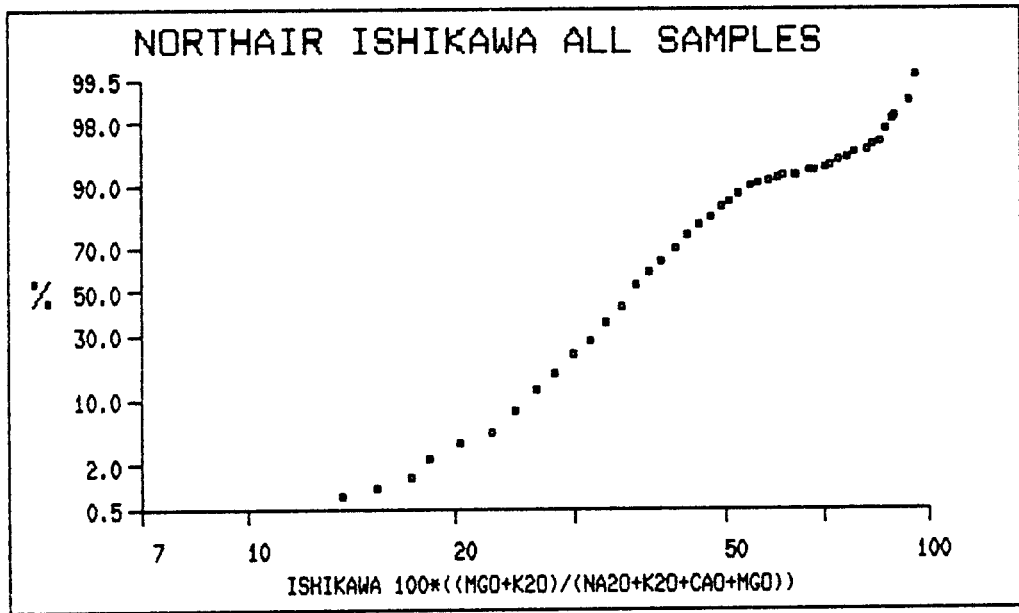
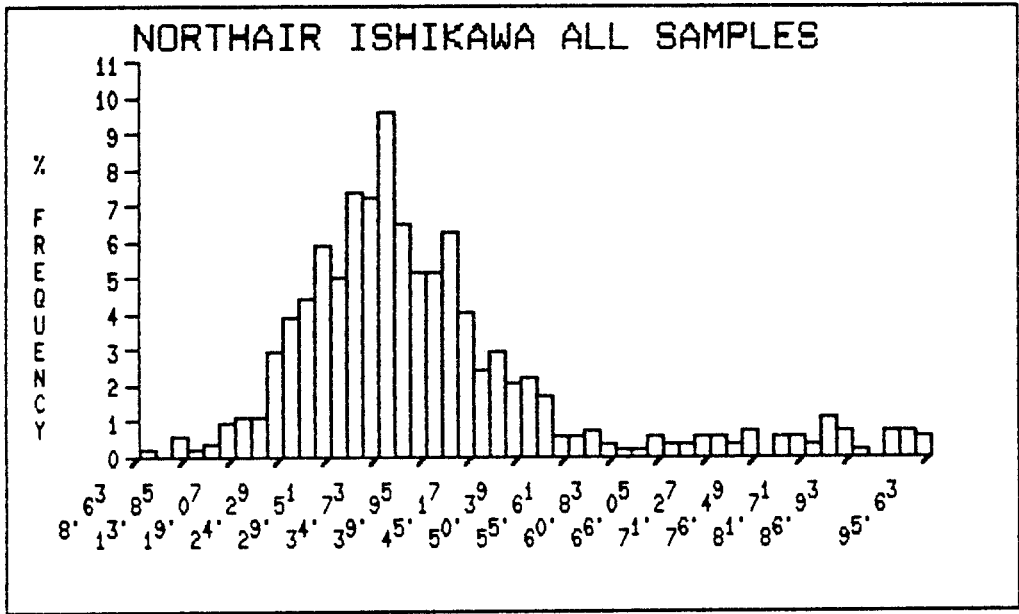
NUMBER OF SAMPLES	: 546
MINIMUM	: 0.670
MAXIMUM	: 23.200
MEAN	: 6.719
STANDARD DEVIATION	: 2.107
MEAN - 1 STD. DEV.	: 4.612
MEAN + 1 STD. DEV.	: 8.827
MEAN + 2 STD. DEV.	: 10.934
MEDIAN	: 6.635
MODE	: 5.060
SKEWNESS	: 0.120
KURTOSIS	: 11.090
NUMBER OF CLASSES	: 100
CLASS INTERVAL	: 0.230





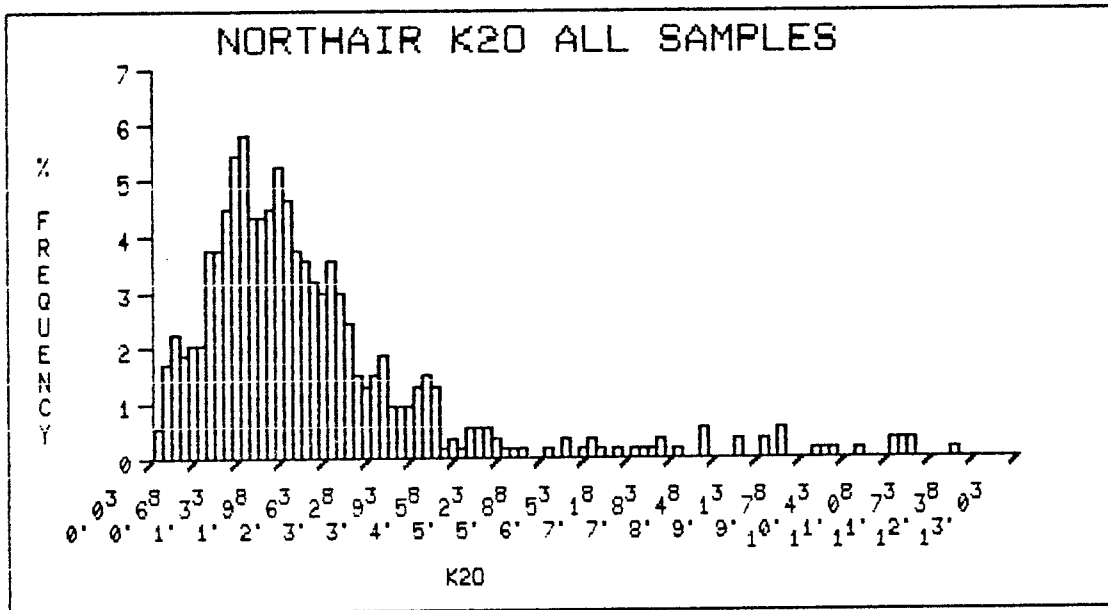
NORTHAIR ISHIKAWA ALL SAMPLES

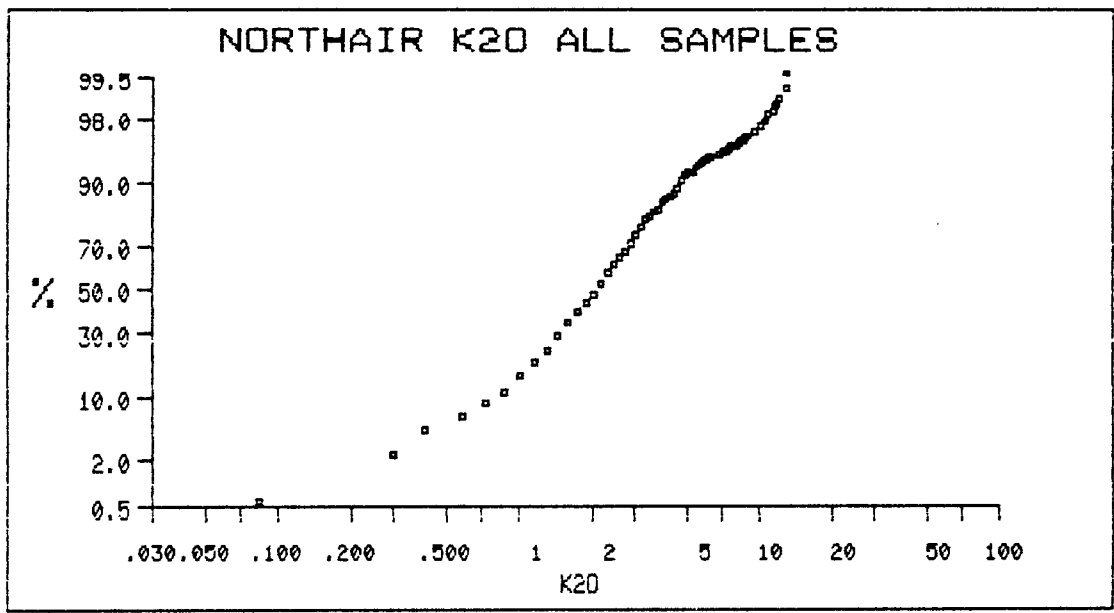
NUMBER OF SAMPLES :	546
MINIMUM :	8.630
MAXIMUM :	95.300
MEAN :	40.143
STANDARD DEVIATION :	15.555
MEAN - 1 STD. DEV. :	24.588
MEAN + 1 STD. DEV. :	55.698
MEAN + 2 STD. DEV. :	71.253
MEDIAN :	36.375
MODE :	34.750
SKEWNESS :	0.727
KURTOSIS :	5.764
NUMBER OF CLASSES :	50
CLASS INTERVAL :	1.740



NORTHAIR K20 ALL SAMPLES

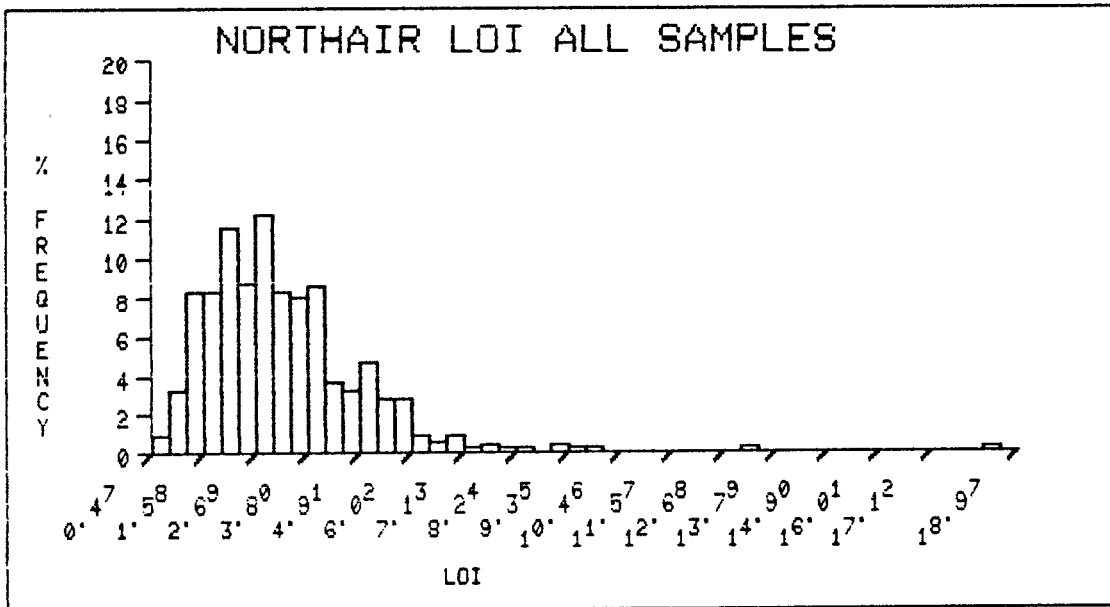
NUMBER OF SAMPLES :	546
MINIMUM :	0.030
MAXIMUM :	12.100
MEAN :	2.460
STANDARD DEVIATION :	2.019
MEAN - 1 STD. DEV. :	0.441
MEAN + 1 STD. DEV. :	4.480
MEAN + 2 STD. DEV. :	6.499
MEDIAN :	1.950
MODE :	1.990
SKEWNESS :	0.758
KURTOSIS :	9.452
NUMBER OF CLASSES :	100
CLASS INTERVAL :	0.130

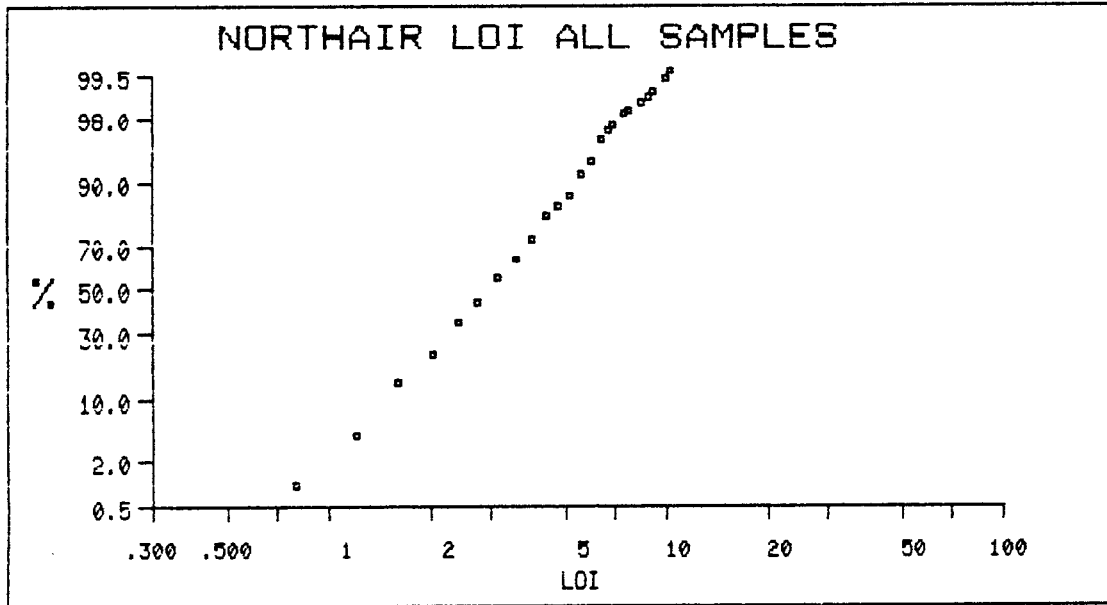




NORTHAIR LOI ALL SAMPLES

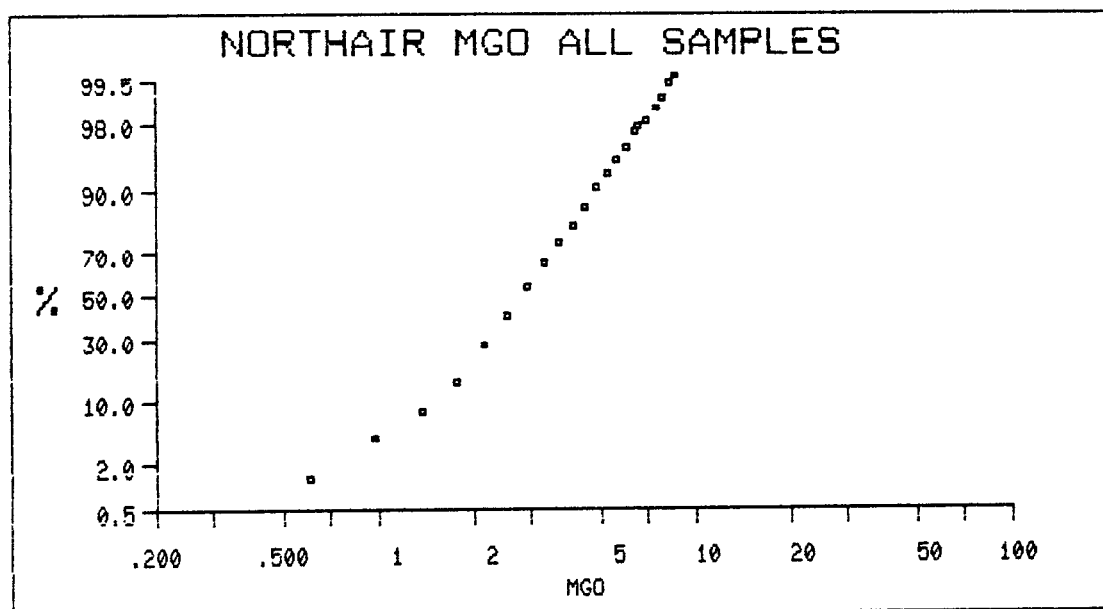
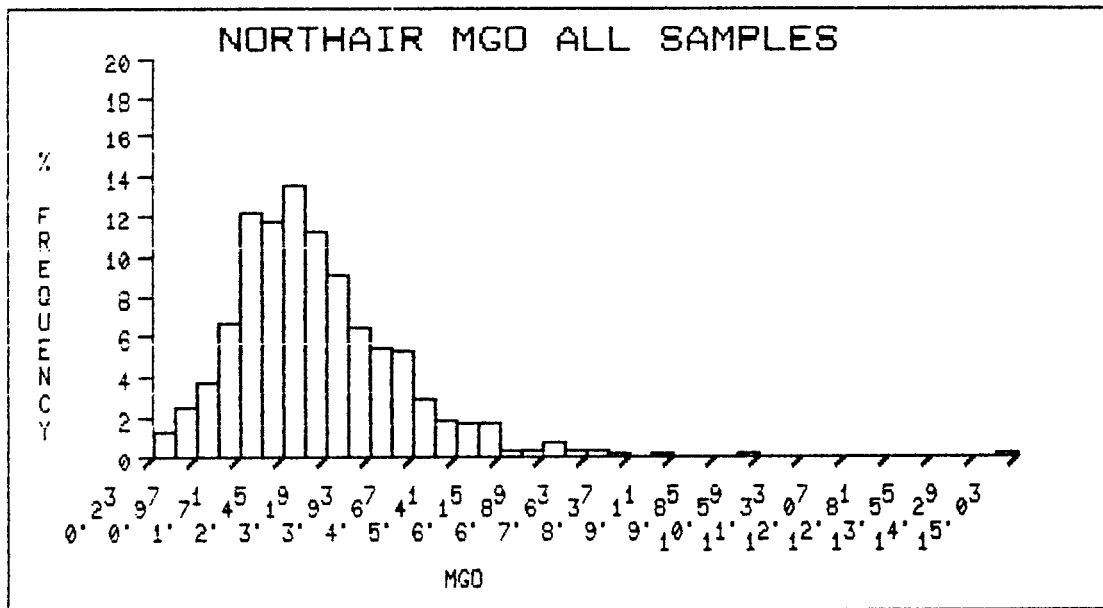
NUMBER OF SAMPLES	: 546
MINIMUM	: 0.470
MAXIMUM	: 18.540
MEAN	: 3.239
STANDARD DEVIATION	: 1.699
MEAN - 1 STD. DEV.	: 1.540
MEAN + 1 STD. DEV.	: 4.937
MEAN + 2 STD. DEV.	: 6.636
MEDIAN	: 2.930
MODE	: 2.080
SKEWNESS	: 0.545
KURTOSIS	: 17.244
NUMBER OF CLASSES	: 50
CLASS INTERVAL	: 0.370





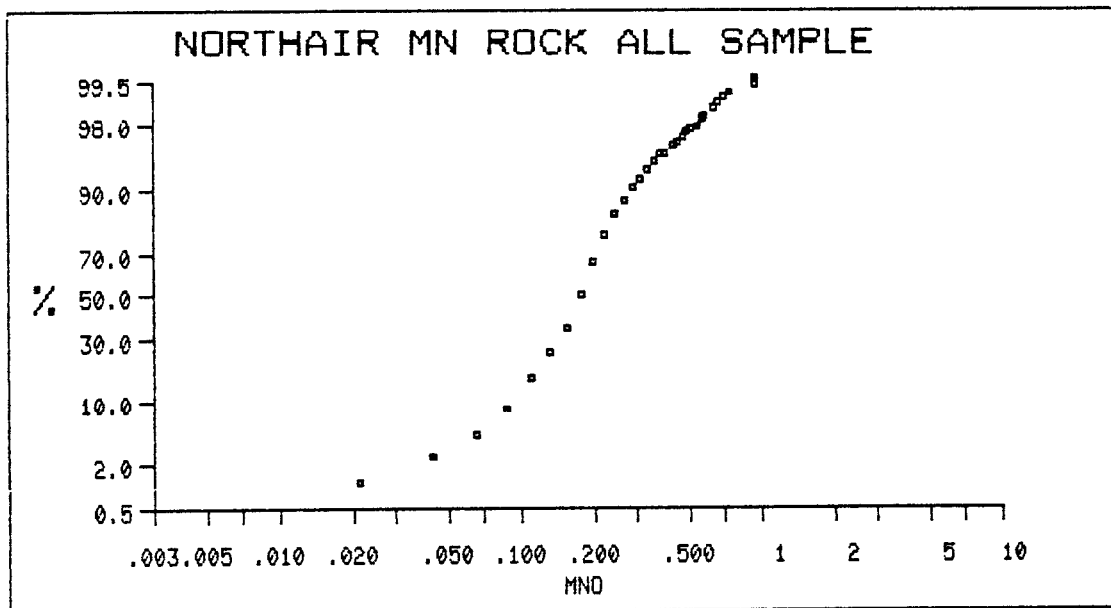
NORTHAIR MGO ALL SAMPLES

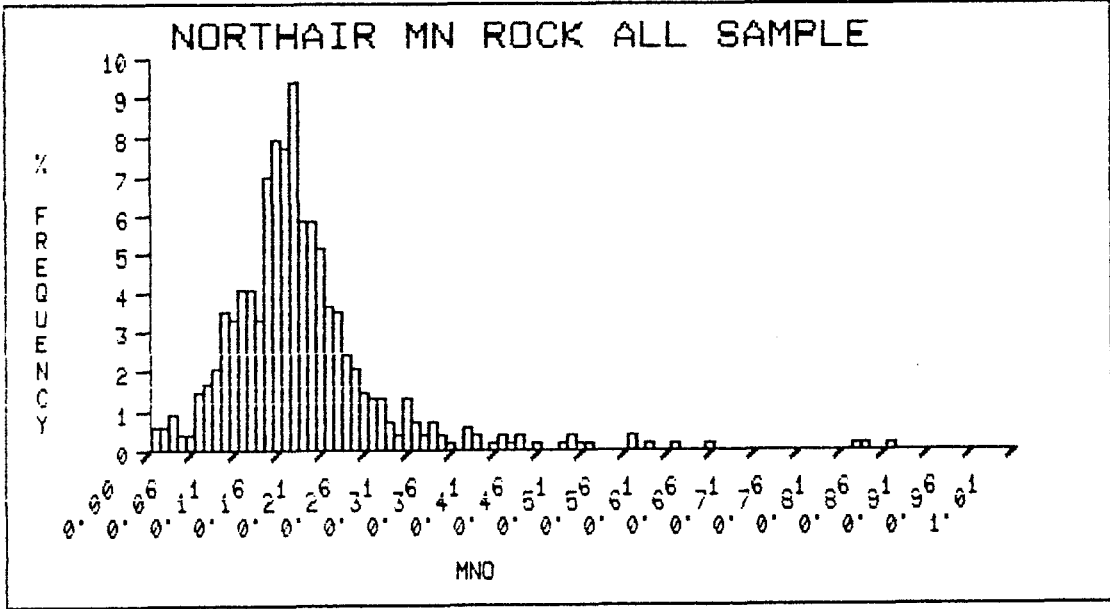
NUMBER OF SAMPLES	:	546
MINIMUM	:	0.230
MAXIMUM	:	14.700
MEAN	:	3.021
STANDARD DEVIATION	:	1.489
MEAN - 1 STD. DEV.	:	1.532
MEAN + 1 STD. DEV.	:	4.510
MEAN + 2 STD. DEV.	:	5.999
MEDIAN	:	2.755
MODE	:	2.220
SKEWNESS	:	0.535
KURTOSIS	:	11.180
NUMBER OF CLASSES	:	40
CLASS INTERVAL	:	0.370



NORTHAIR MN ROCK ALL SAMPLE

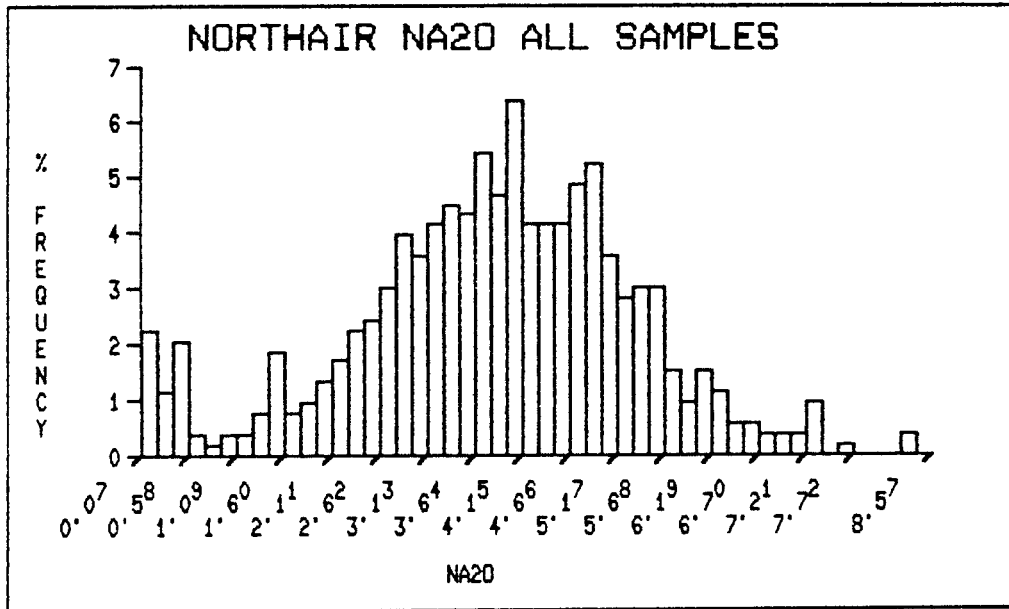
NUMBER OF SAMPLES	: 546
MINIMUM	: 0.005
MAXIMUM	: 1.160
MEAN	: 0.185
STANDARD DEVIATION	: 0.115
MEAN - 1 STD. DEV.	: 0.070
MEAN + 1 STD. DEV.	: 0.299
MEAN + 2 STD. DEV.	: 0.414
MEDIAN	: 0.170
MODE	: 0.170
SKEWNESS	: 0.380
KURTOSIS	: 27.589
NUMBER OF CLASSES	: 100
CLASS INTERVAL	: 0.020

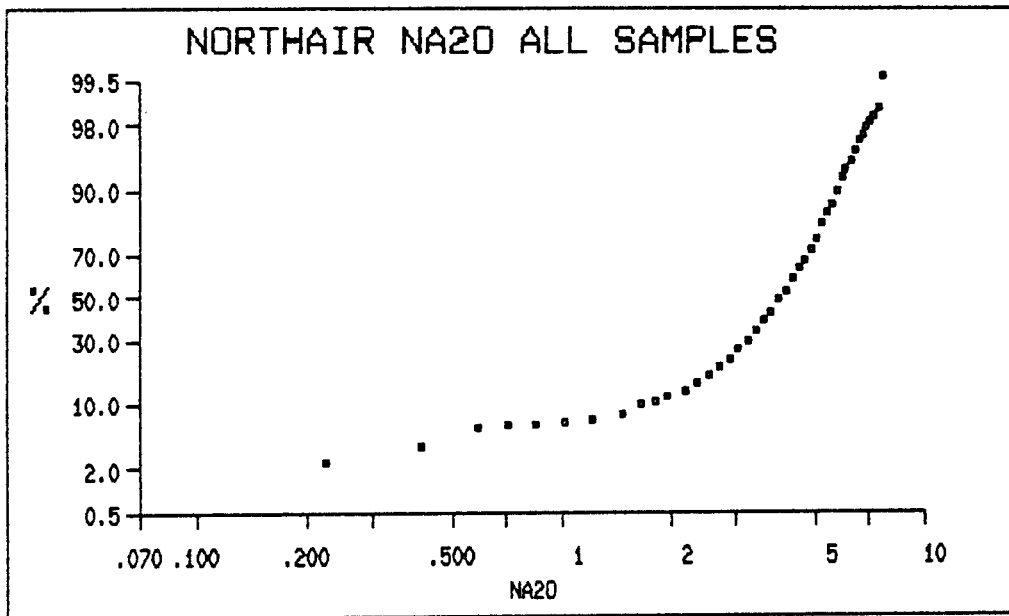




NORTHAIR NA20 ALL SAMPLES

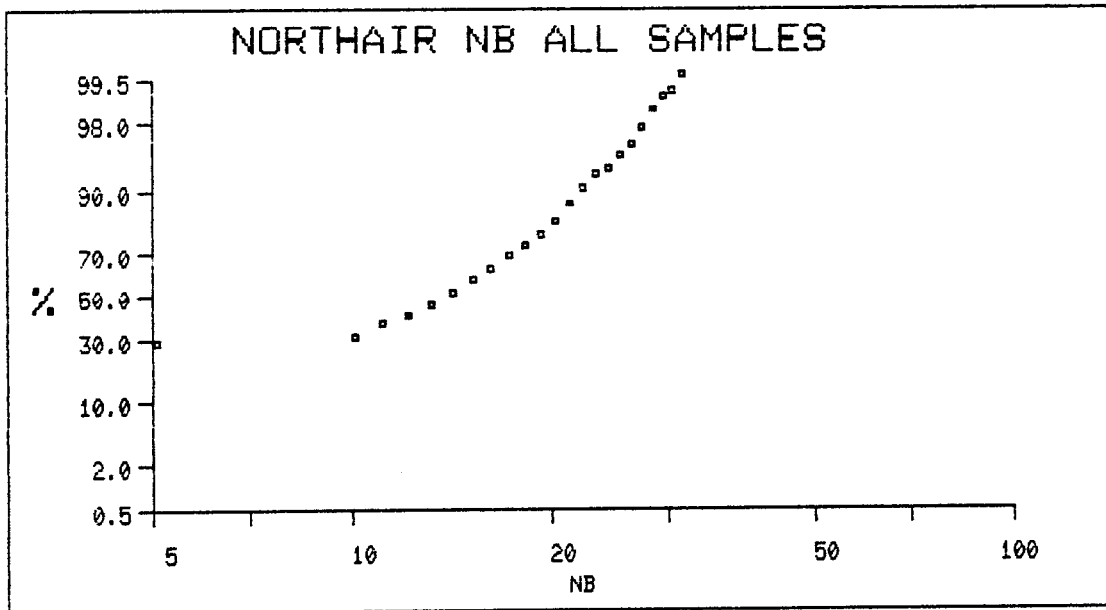
NUMBER OF SAMPLES :	546
MINIMUM :	0.070
MAXIMUM :	8.360
MEAN :	3.830
STANDARD DEVIATION :	1.526
MEAN - 1 STD. DEV. :	2.304
MEAN + 1 STD. DEV. :	5.357
MEAN + 2 STD. DEV. :	6.883
MEDIAN :	3.945
MODE :	3.750
SKEWNESS :	-0.226
KURTOSIS :	3.246
NUMBER OF CLASSES :	50
CLASS INTERVAL :	0.170





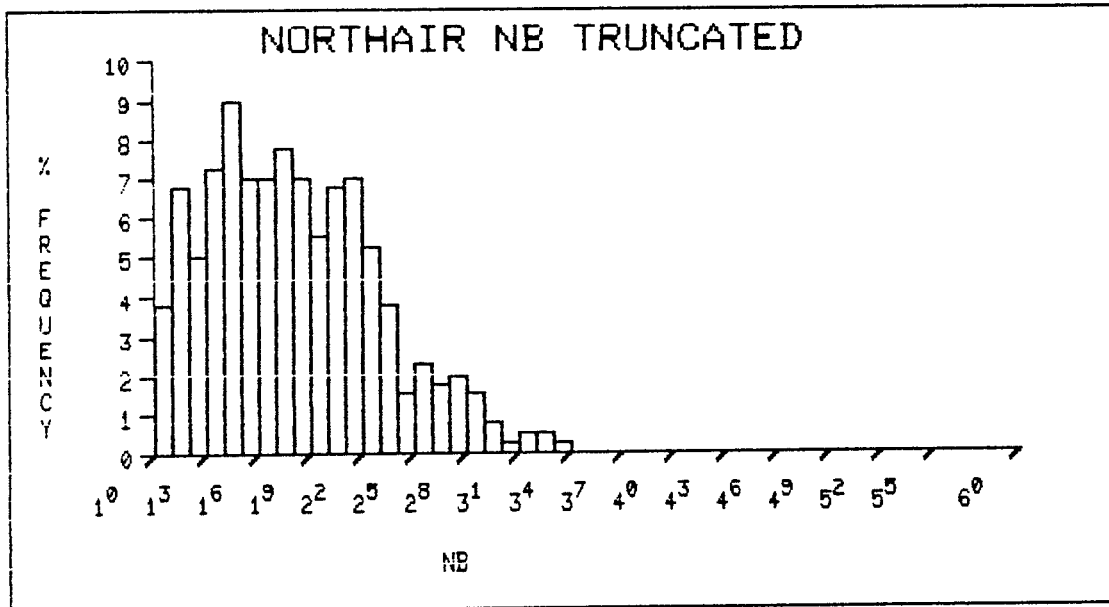
NORTHAIR NB ALL SAMPLES

NUMBER OF SAMPLES	:	546
MINIMUM	:	5.0
MAXIMUM	:	33.0
MEAN	:	14.2
STANDARD DEVIATION	:	7.0
MEAN - 1 STD. DEV.	:	7.3
MEAN + 1 STD. DEV.	:	21.2
MEAN + 2 STD. DEV.	:	28.1
MEDIAN	:	14.5
MODE	:	5.0
SKEWNESS	:	-0.1
KURTOSIS	:	2.2
NUMBER OF CLASSES	:	50
CLASS INTERVAL	:	1.0



NORTHAIR NB TRUNCATED

NUMBER OF SAMPLES	:	400
MINIMUM	:	10.0
MAXIMUM	:	33.0
MEAN	:	17.6
STANDARD DEVIATION	:	4.9
MEAN - 1 STD. DEV.	:	12.7
MEAN + 1 STD. DEV.	:	22.5
MEAN + 2 STD. DEV.	:	27.3
MEDIAN	:	17.0
MODE	:	14.0
SKEWNESS	:	0.4
KURTOSIS	:	2.9
NUMBER OF CLASSES	:	50
CLASS INTERVAL	:	1.0



NORTHAIR PB ALL SAMPLES

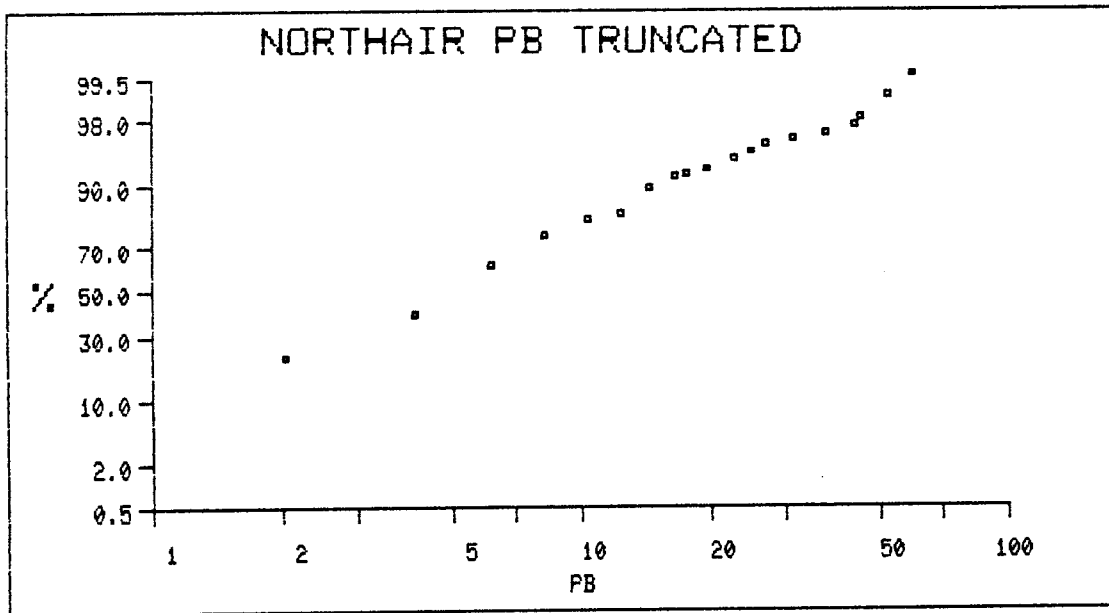
NUMBER OF SAMPLES	:	194
MINIMUM	:	1.0
MAXIMUM	:	140000.0
MEAN	:	769.0
STANDARD DEVIATION	:	10026.1
MEAN - 1 STD. DEV.	:	-9257.1
MEAN + 1 STD. DEV.	:	10795.1
MEAN + 2 STD. DEV.	:	20821.2
MEDIAN	:	6.0
MODE	:	5.0
SKELWNESS	:	0.2
KURTOSIS	:	191.7
NUMBER OF CLASSES	:	50
CLASS INTERVAL	:	2800.0

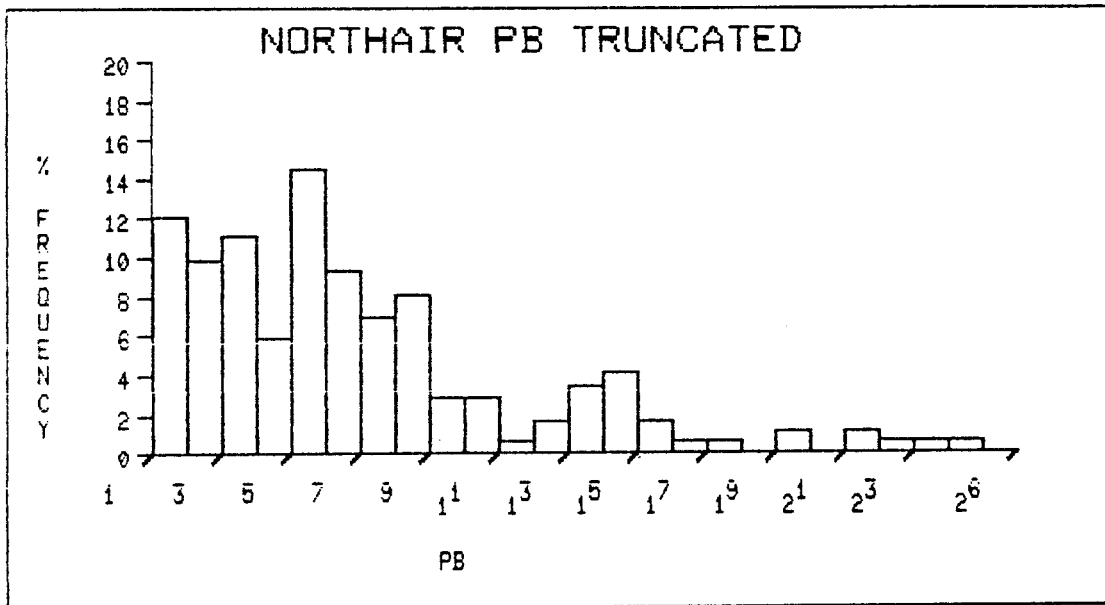
NORTHAIR PB TRUNCATED

NUMBER OF SAMPLES	:	173
MINIMUM	:	1.0
MAXIMUM	:	24.0
MEAN	:	6.4
STANDARD DEVIATION	:	4.9
MEAN - 1 STD. DEV.	:	1.5
MEAN + 1 STD. DEV.	:	11.4
MEAN + 2 STD. DEV.	:	16.3
MEDIAN	:	5.0
MODE	:	5.0
SKELWNESS	:	0.9
KURTOSIS	:	4.7
NUMBER OF CLASSES	:	25
CLASS INTERVAL	:	1.0

NORTHAIR PB TRUNCATED

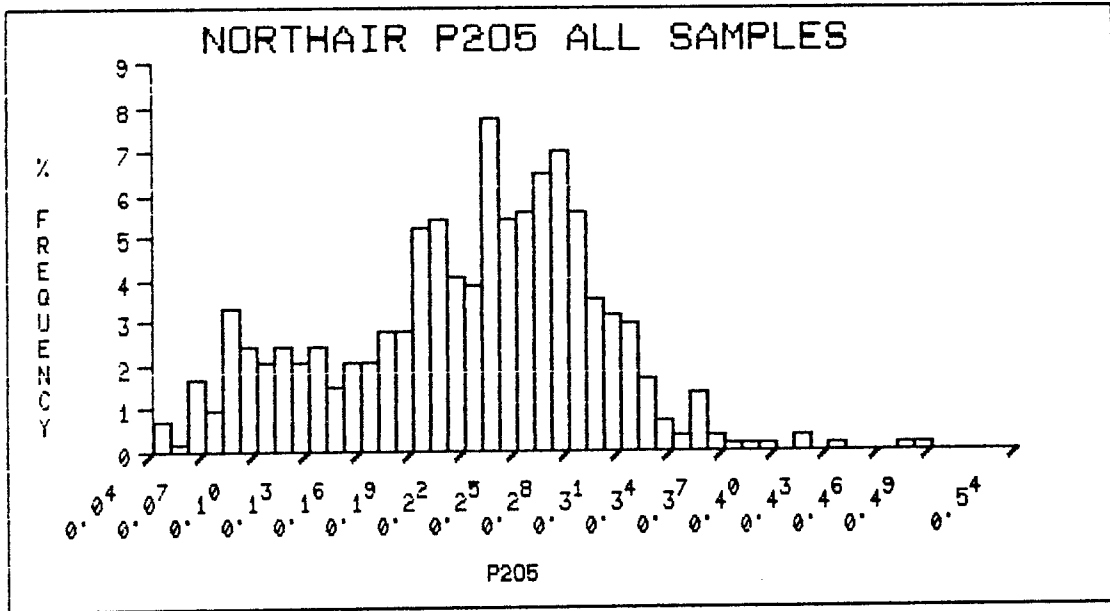
NUMBER OF SAMPLES	:	183
MINIMUM	:	1.0
MAXIMUM	:	67.0
MEAN	:	8.4
STANDARD DEVIATION	:	10.0
MEAN - 1 STD. DEV.	:	-1.6
MEAN + 1 STD. DEV.	:	18.4
MEAN + 2 STD. DEV.	:	28.4
MEDIAN	:	5.0
MODE	:	5.0
SKEWNESS	:	1.0
KURTOSIS	:	15.0
NUMBER OF CLASSES	:	50
CLASS INTERVAL	:	2.0

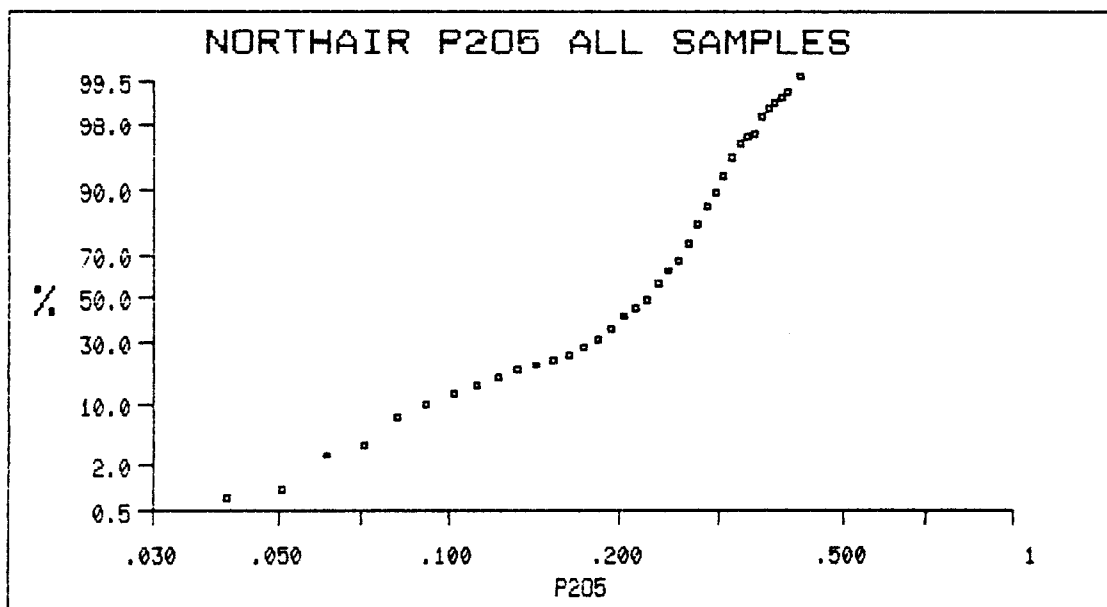




NORTHAIR P205 ALL SAMPLES

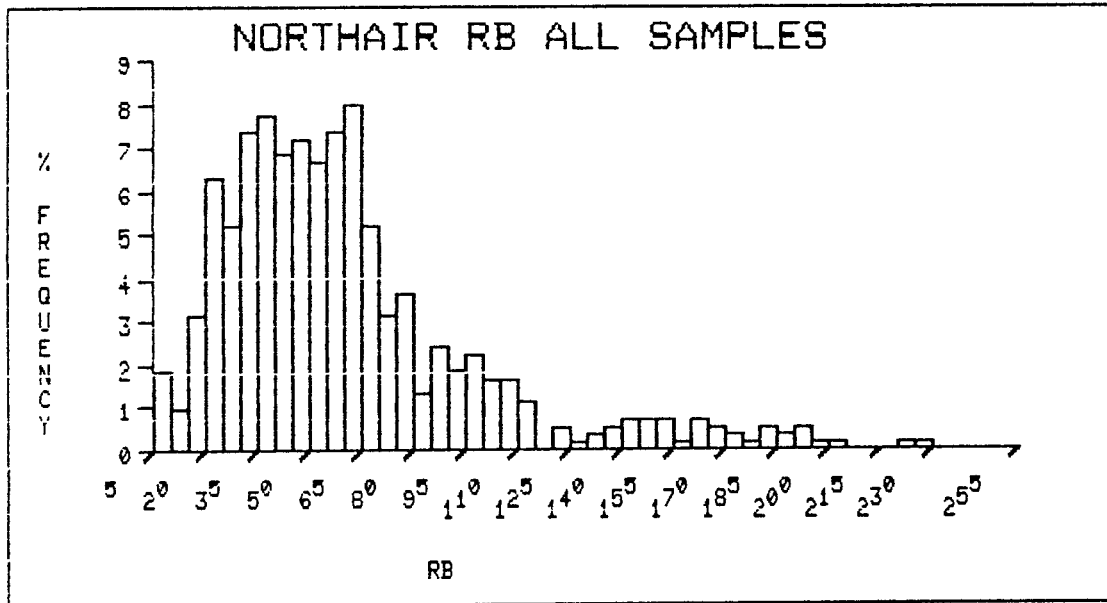
NUMBER OF SAMPLES :	546
MINIMUM :	0.040
MAXIMUM :	0.480
MEAN :	0.217
STANDARD DEVIATION :	0.076
MEAN - 1 STD. DEV. :	0.141
MEAN + 1 STD. DEV. :	0.292
MEAN + 2 STD. DEV. :	0.368
MEDIAN :	0.230
MODE :	0.230
SKEWNESS :	-0.534
KURTOSIS :	2.955
NUMBER OF CLASSES :	50
CLASS INTERVAL :	0.010

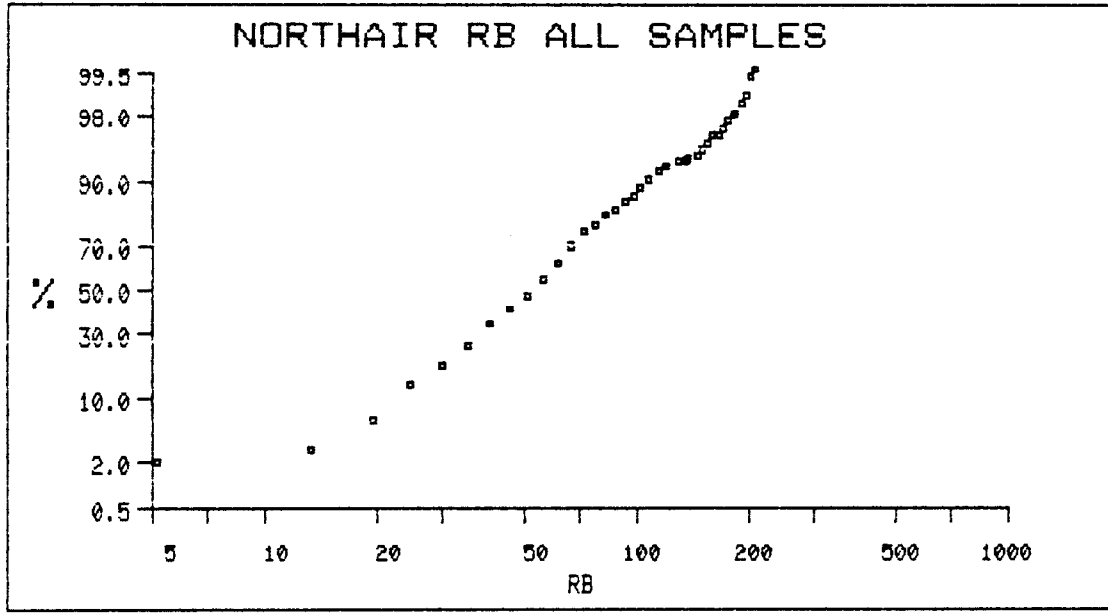




NORTHAIR RB ALL SAMPLES

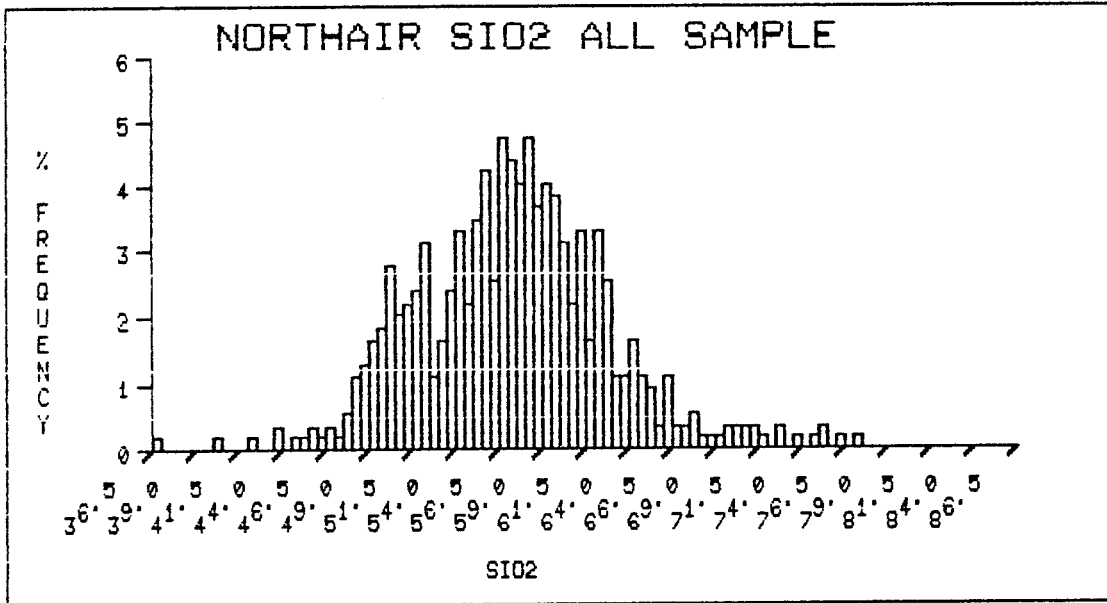
NUMBER OF SAMPLES	:	546
MINIMUM	:	5.0
MAXIMUM	:	226.0
MEAN	:	60.5
STANDARD DEVIATION	:	38.5
MEAN - 1 STD. DEV.	:	22.1
MEAN + 1 STD. DEV.	:	99.0
MEAN + 2 STD. DEV.	:	137.4
MEDIAN	:	53.0
MODE	:	55.0
SKEWNESS	:	0.6
KURTOSIS	:	5.9
NUMBER OF CLASSES	:	50
CLASS INTERVAL	:	5.0

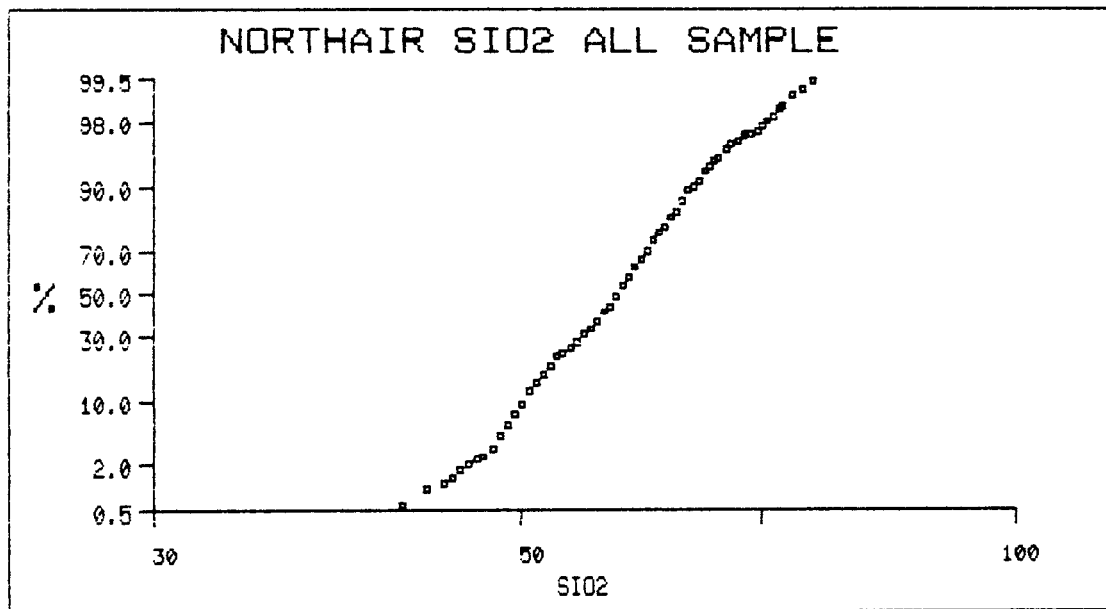




NORTHAIR SIO2 ALL SAMPLE

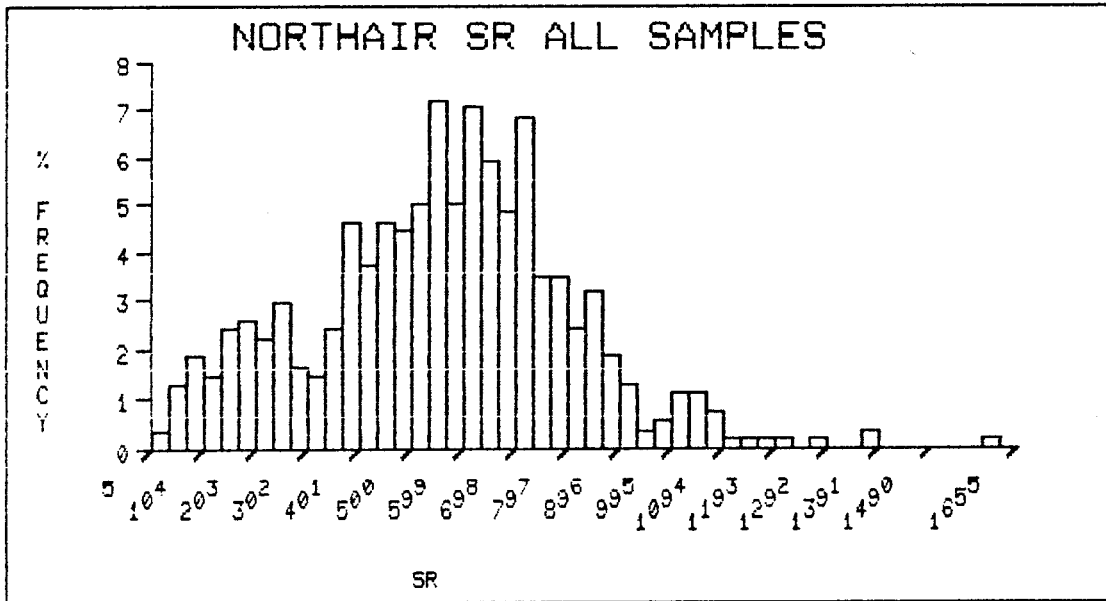
NUMBER OF SAMPLES	: 546
MINIMUM	: 36.50
MAXIMUM	: 77.20
MEAN	: 57.28
STANDARD DEVIATION	: 5.63
MEAN - 1 STD. DEV.	: 51.65
MEAN + 1 STD. DEV.	: 62.90
MEAN + 2 STD. DEV.	: 68.53
MEDIAN	: 57.25
MODE	: 57.80
SKEWNESS	: 0.01
KURTOSIS	: 3.91
NUMBER OF CLASSES	: 100
CLASS INTERVAL	: 0.50

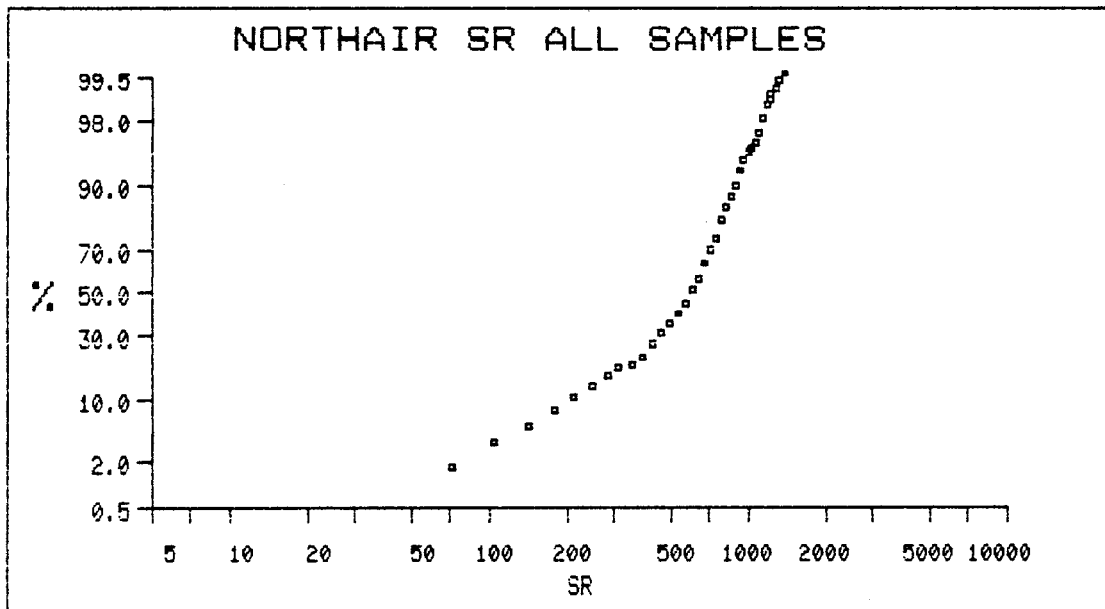




NORTHAIR SR ALL SAMPLES

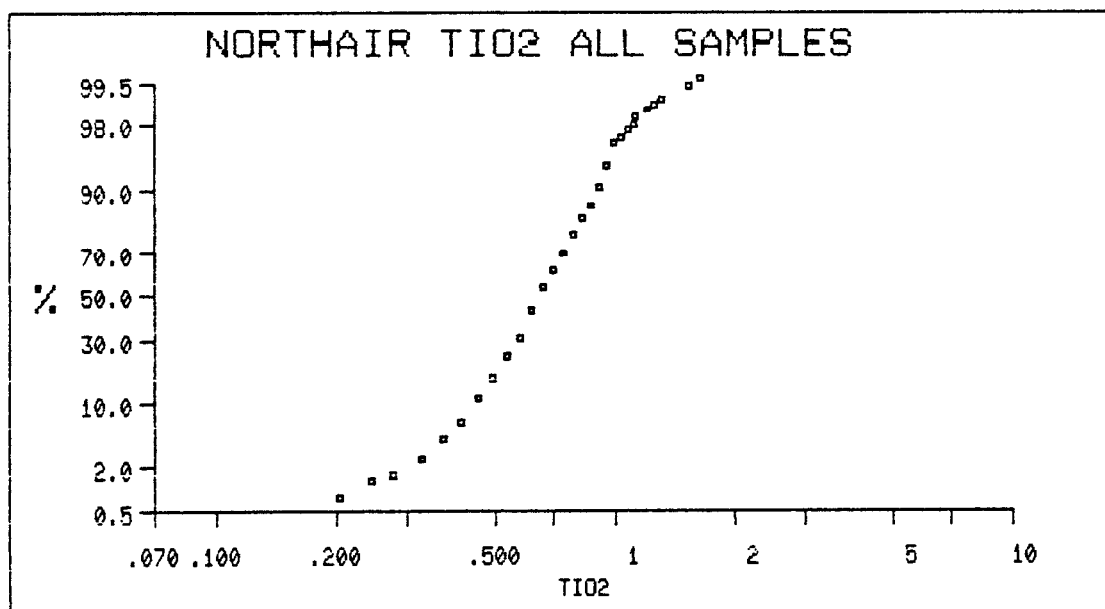
NUMBER OF SAMPLES	546
MINIMUM	5.0
MAXIMUM	1620.0
MEAN	557.0
STANDARD DEVIATION	245.3
MEAN - 1 STD. DEV.	311.7
MEAN + 1 STD. DEV.	802.3
MEAN + 2 STD. DEV.	1047.6
MEDIAN	568.0
MODE	1020.0
SKEWNESS	-0.1
KURTOSIS	3.5
NUMBER OF CLASSES	50
CLASS INTERVAL	33.0

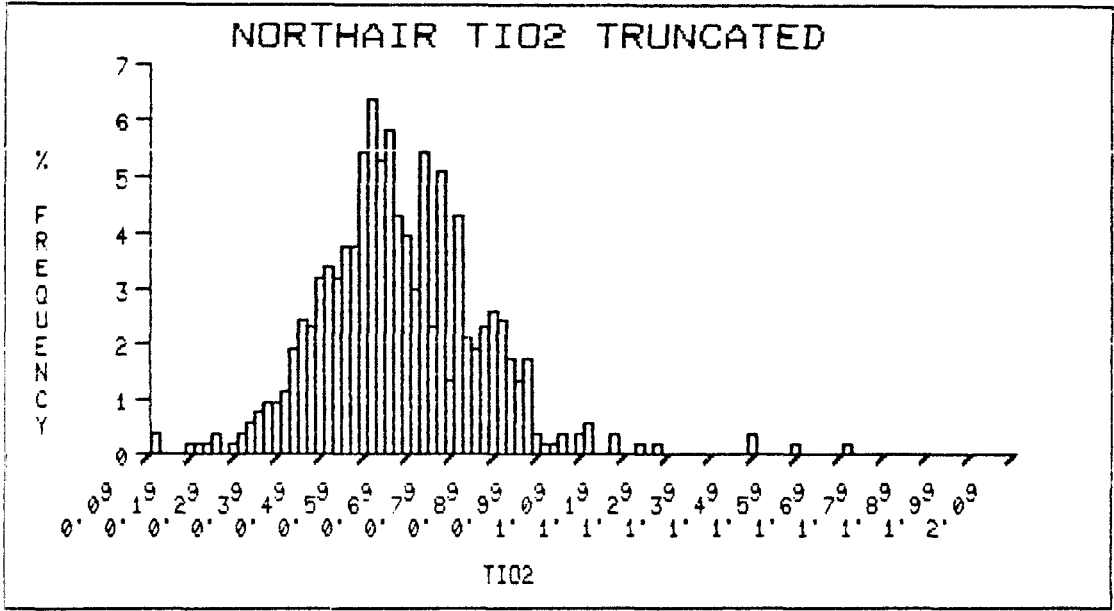




NORTHAIR TIO2 ALL SAMPLES

NUMBER OF SAMPLES	:	546
MINIMUM	:	0.090
MAXIMUM	:	3.290
MEAN	:	0.667
STANDARD DEVIATION	:	0.233
MEAN - 1 STD. DEV.	:	0.434
MEAN + 1 STD. DEV.	:	0.900
MEAN + 2 STD. DEV.	:	1.133
MEDIAN	:	0.640
MODE	:	0.600
SKEWNESS	:	0.344
KURTOSIS	:	38.523
NUMBER OF CLASSES	:	100
CLASS INTERVAL	:	0.040



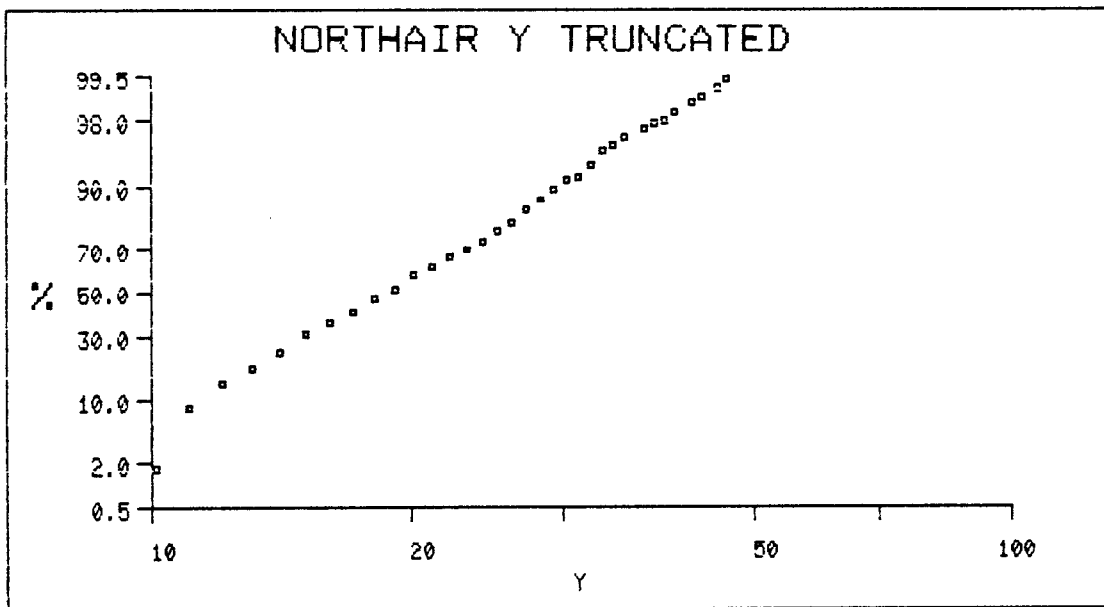
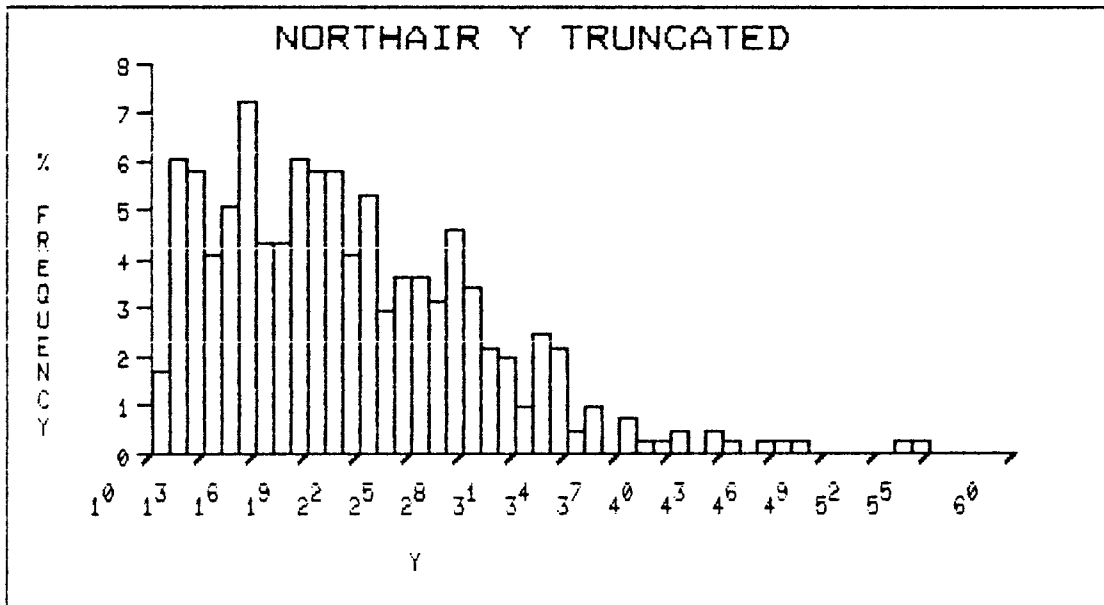


NORTHAIR Y ALL SAMPLES

NUMBER OF SAMPLES	:	546
MINIMUM	:	5.0
MAXIMUM	:	54.0
MEAN	:	17.2
STANDARD DEVIATION	:	9.4
MEAN - 1 STD. DEV.	:	7.8
MEAN + 1 STD. DEV.	:	26.6
MEAN + 2 STD. DEV.	:	36.0
MEDIAN	:	17.0
MODE	:	5.0
SKEWNESS	:	0.1
KURTOSIS	:	3.2
NUMBER OF CLASSES	:	50
CLASS INTERVAL	:	1.0

NORTHAIR Y TRUNCATED

NUMBER OF SAMPLES	:	421
MINIMUM	:	10.0
MAXIMUM	:	54.0
MEAN	:	20.8
STANDARD DEVIATION	:	7.6
MEAN - 1 STD. DEV.	:	13.2
MEAN + 1 STD. DEV.	:	28.4
MEAN + 2 STD. DEV.	:	36.0
MEDIAN	:	20.0
MODE	:	15.0
SKEWNESS	:	0.3
KURTOSIS	:	4.4
NUMBER OF CLASSES	:	50
CLASS INTERVAL	:	1.0

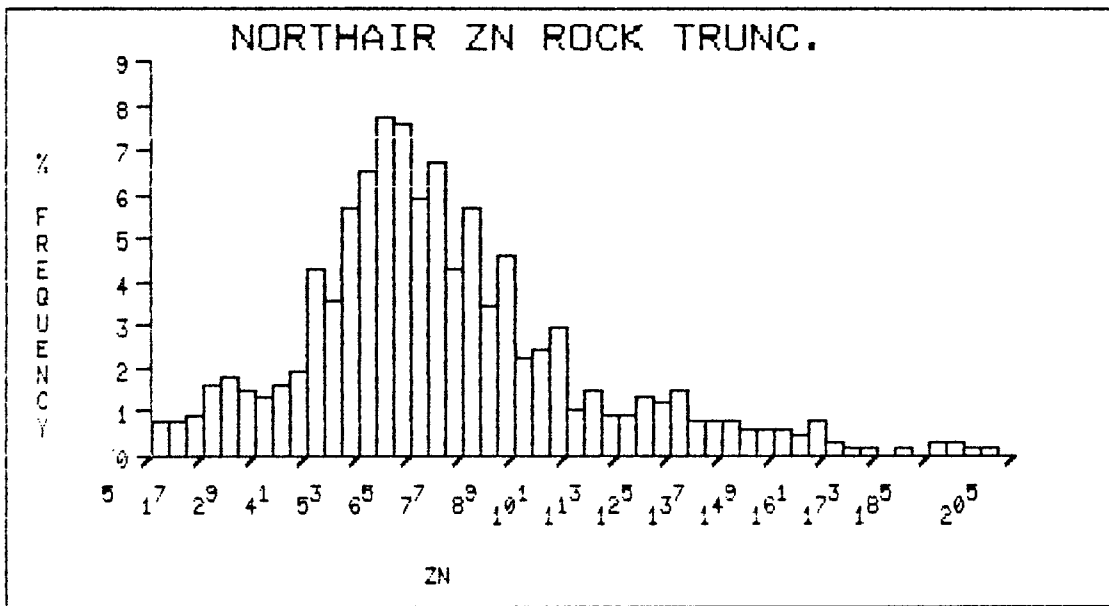
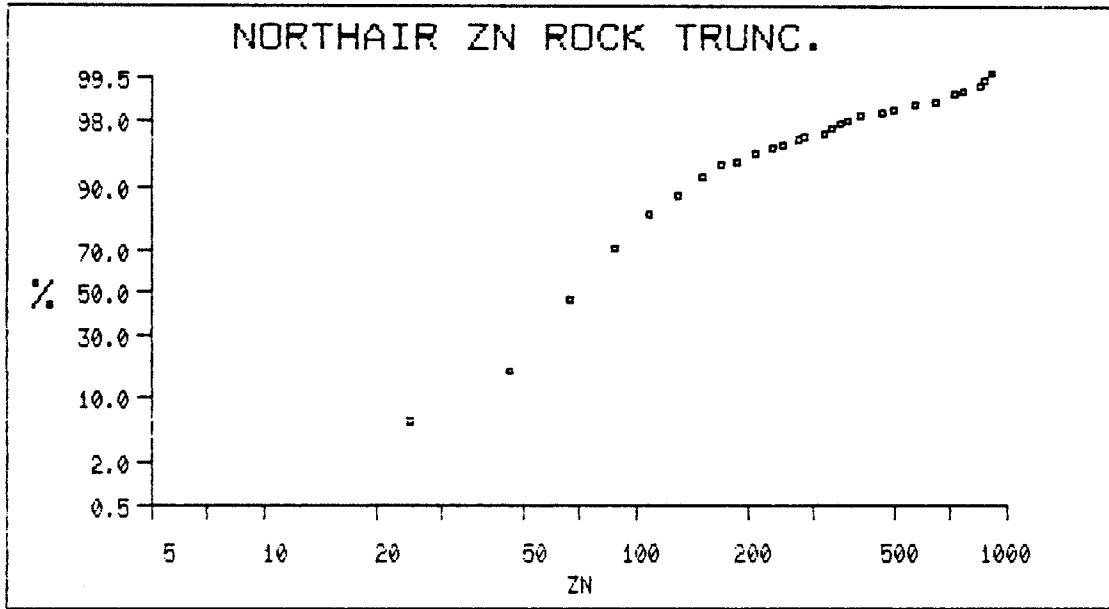


NORTHAIR ZN ROCK ALL SAMPLE

NUMBER OF SAMPLES	:	740
MINIMUM	:	5.0
MAXIMUM	:	193600.0
MEAN	:	676.6
STANDARD DEVIATION	:	7529.3
MEAN - 1 STD. DEV.	:	-6852.8
MEAN + 1 STD. DEV.	:	8205.9
MEAN + 2 STD. DEV.	:	15735.2
MEDIAN	:	70.0
MODE	:	71.0
SKEWNESS	:	0.2
KURTOSIS	:	477.5
NUMBER OF CLASSES	:	50
CLASS INTERVAL	:	3672.0

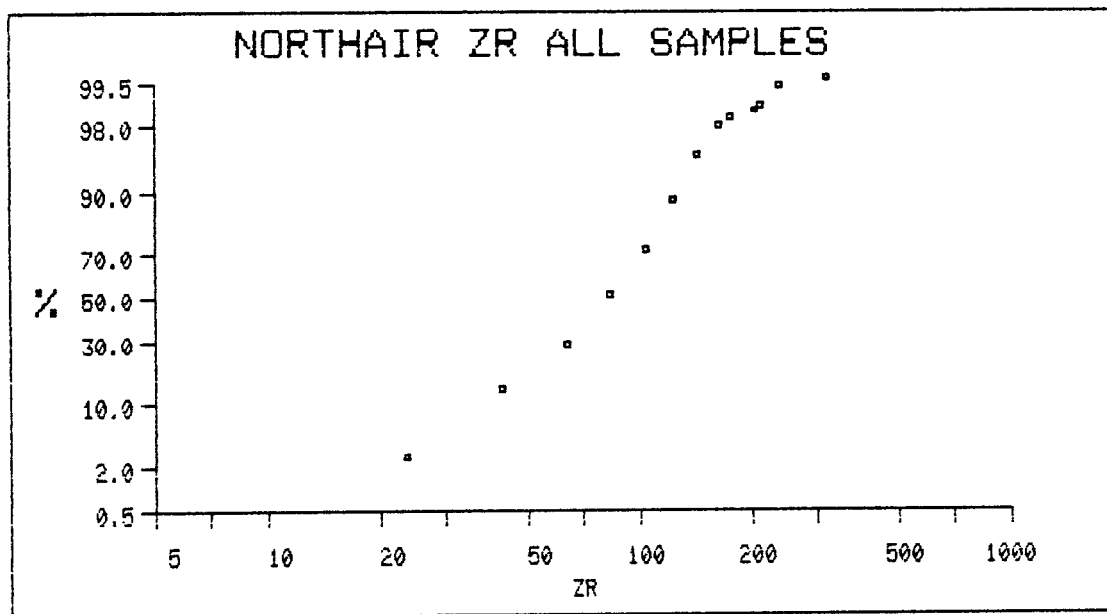
NORTHAIR ZN ROCK TRUNC.

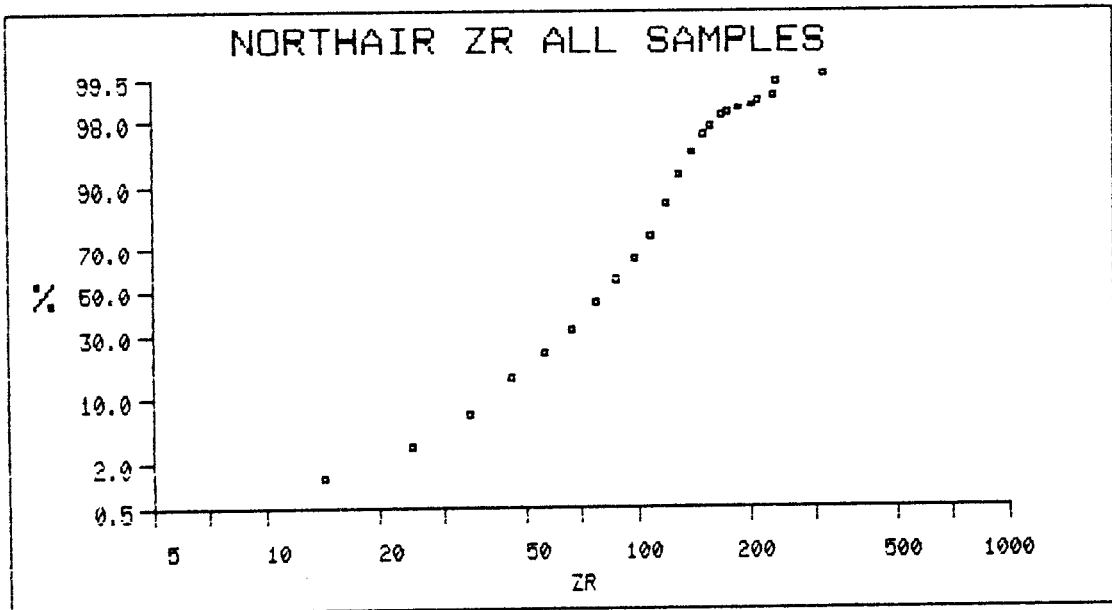
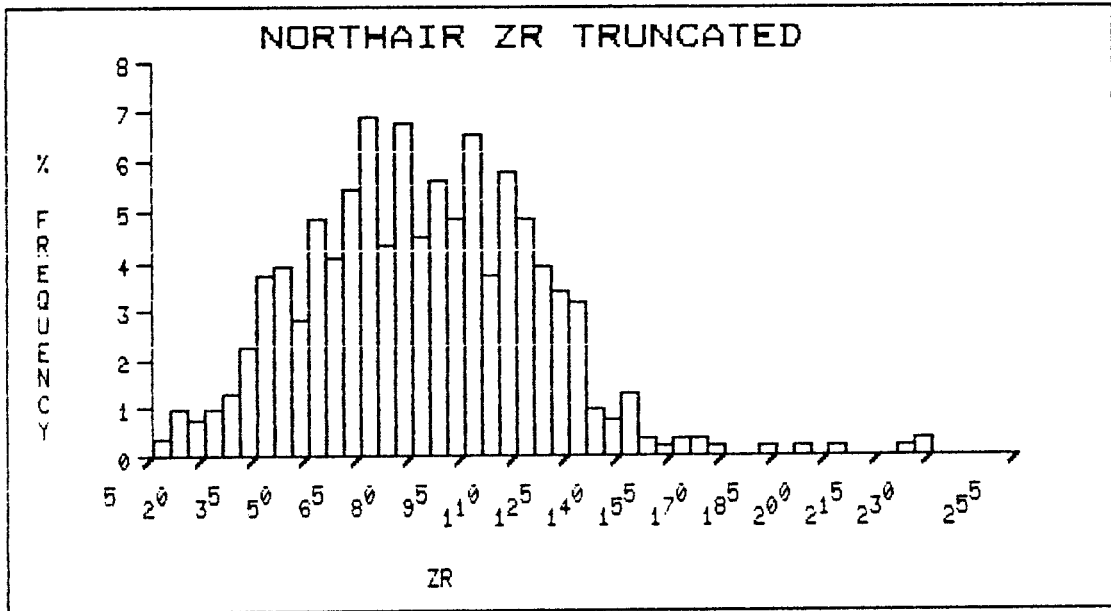
NUMBER OF SAMPLES	:	679
MINIMUM	:	5.0
MAXIMUM	:	200.0
MEAN	:	71.9
STANDARD DEVIATION	:	32.9
MEAN - 1 STD. DEV.	:	39.0
MEAN + 1 STD. DEV.	:	104.8
MEAN + 2 STD. DEV.	:	137.7
MEDIAN	:	66.0
MODE	:	71.0
SKEWNESS	:	0.5
KURTOSIS	:	4.4
NUMBER OF CLASSES	:	50
CLASS INTERVAL	:	4.0



NORTHAIR ZR ALL SAMPLES

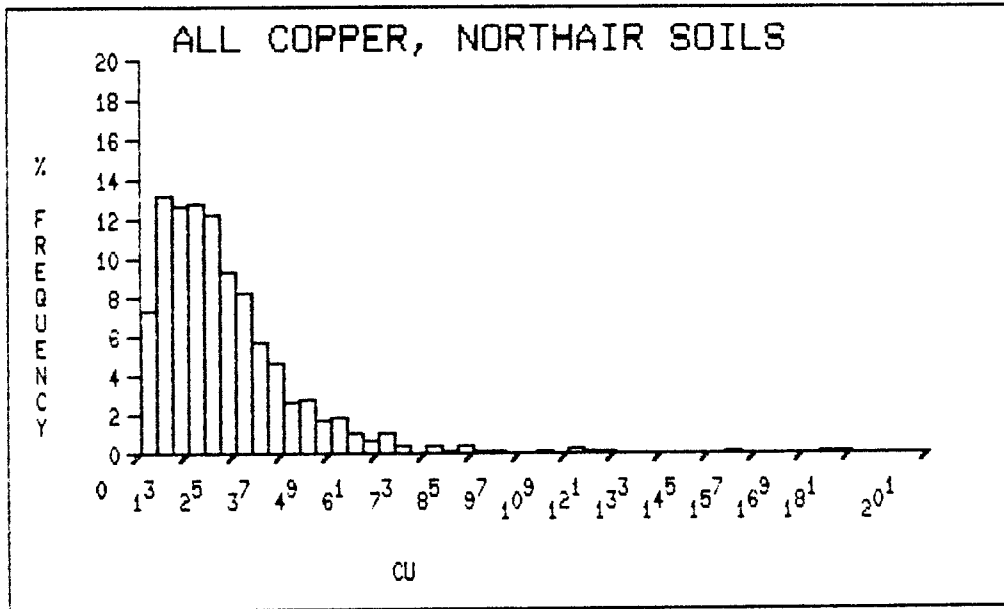
NUMBER OF SAMPLES	:	546
MINIMUM	:	5.0
MAXIMUM	:	941.0
MEAN	:	86.1
STANDARD DEVIATION	:	60.2
MEAN - 1 STD. DEV.	:	25.9
MEAN + 1 STD. DEV.	:	146.4
MEAN + 2 STD. DEV.	:	206.6
MEDIAN	:	81.5
MODE	:	95.0
SKEWNESS	:	0.2
KURTOSIS	:	106.0
NUMBER OF CLASSES	:	50
CLASS INTERVAL	:	19.0



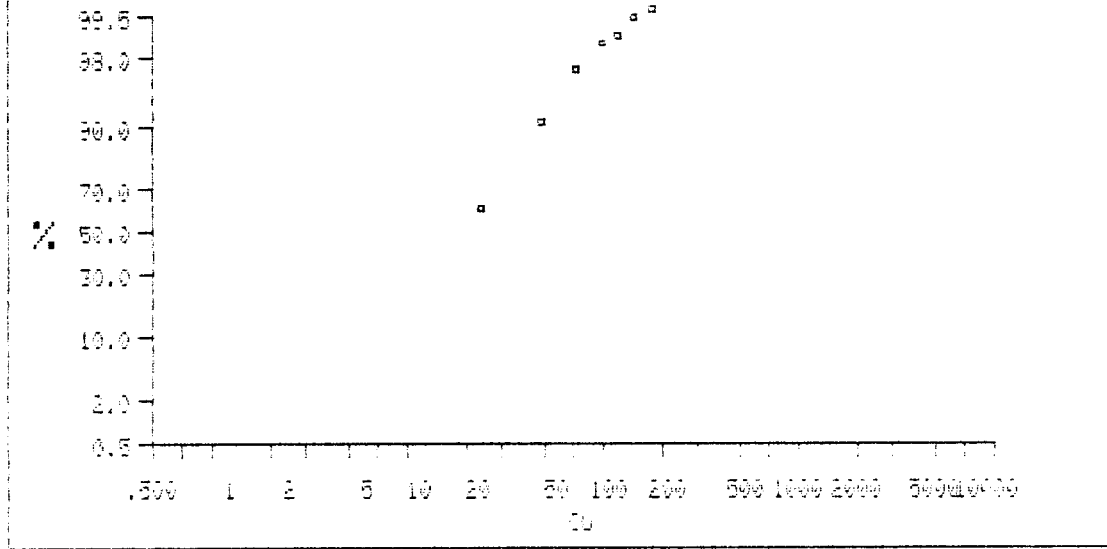


ALL COPPER, NORTHAIR SOILS

NUMBER OF SAMPLES	:	780
MINIMUM	:	0.5
MAXIMUM	:	1050.0
MEAN	:	23.8
STANDARD DEVIATION	:	42.6
MEAN - 1 STD. DEV.	:	-18.8
MEAN + 1 STD. DEV.	:	66.4
MEAN + 2 STD. DEV.	:	109.0
MEDIAN	:	18.0
MODE	:	10.0
SKEWNESS	:	0.4
KURTOSIS	:	434.5
NUMBER OF CLASSES	:	50
CLASS INTERVAL	:	21.0

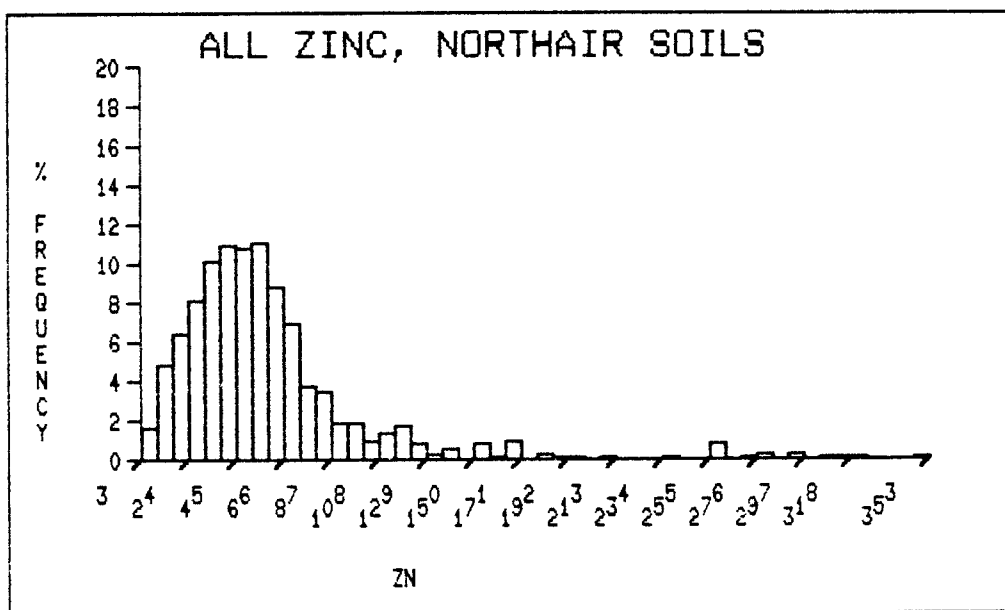


NORTHAIR COPPER IN SOIL

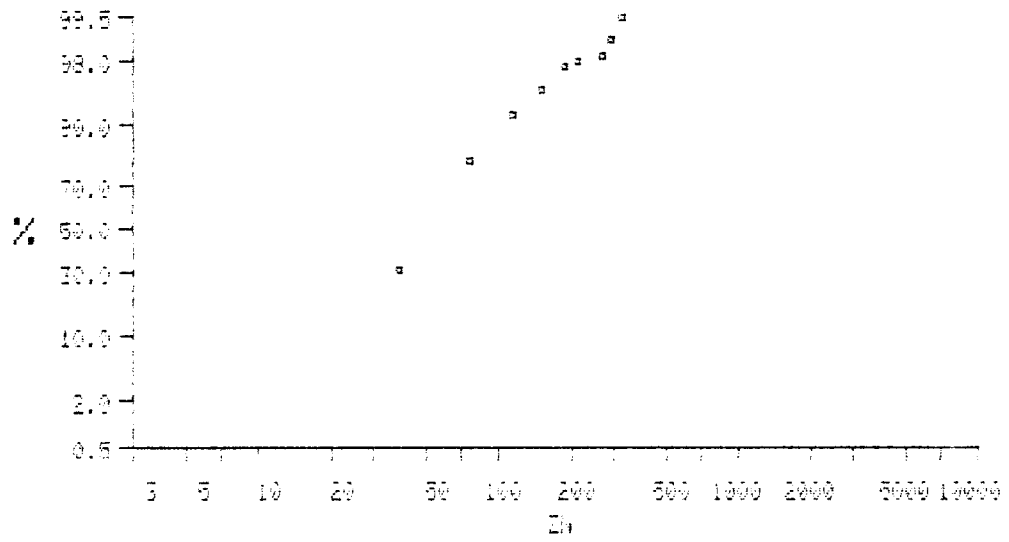


ALL ZINC, NORTHAIR SOILS

NUMBER OF SAMPLES :	780
MINIMUM :	3.0
MAXIMUM :	1700.0
MEAN :	61.0
STANDARD DEVIATION :	74.0
MEAN - 1 STD. DEV. :	-13.0
MEAN + 1 STD. DEV. :	135.0
MEAN + 2 STD. DEV. :	209.0
MEDIAN :	50.0
MODE :	50.0
SKEWNESS :	0.4
KURTOSIS :	310.1
NUMBER OF CLASSES :	50
CLASS INTERVAL :	34.0

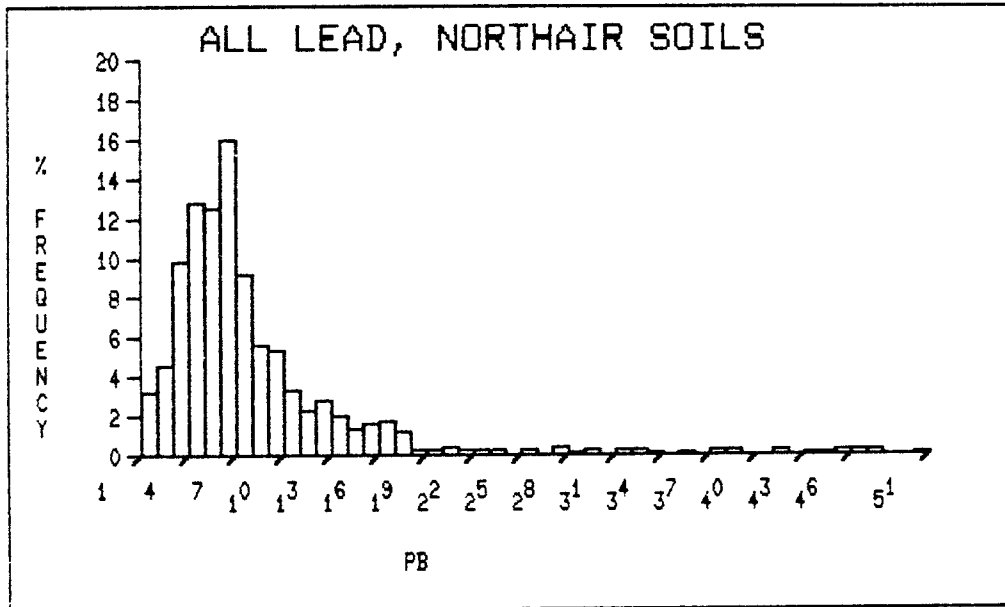


NORTHAIR ZINC IN SOILS

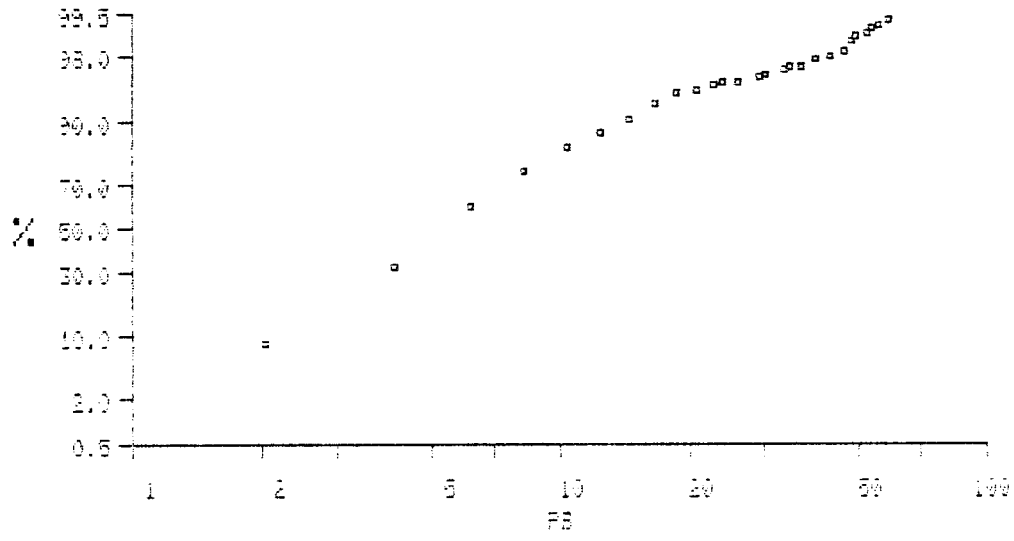


ALL LEAD, NORTHAIR SOILS

NUMBER OF SAMPLES	:	780
MINIMUM	:	1.0
MAXIMUM	:	85.0
MEAN	:	8.4
STANDARD DEVIATION	:	9.2
MEAN - 1 STD. DEV.	:	-0.7
MEAN + 1 STD. DEV.	:	17.6
MEAN + 2 STD. DEV.	:	26.8
MEDIAN	:	6.0
MODE	:	6.0
SKEWNESS	:	0.8
KURTOSIS	:	23.4
NUMBER OF CLASSES	:	50
CLASS INTERVAL	:	2.0

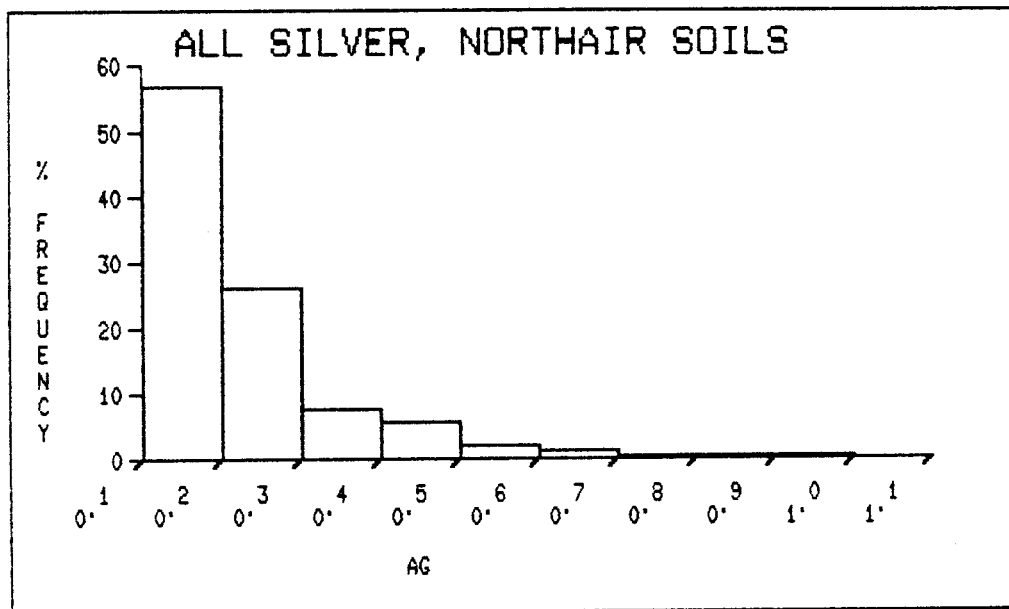


NORTHAIR LEAD IN SOILS



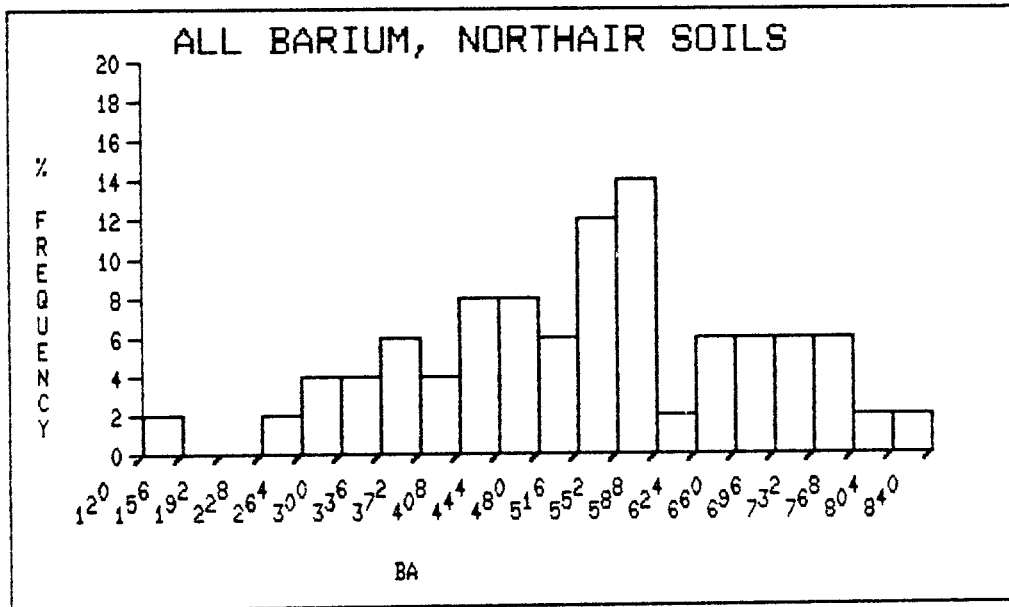
ALL SILVER, NORTHAIR SOILS

NUMBER OF SAMPLES	:	780
MINIMUM	:	0.05
MAXIMUM	:	0.90
MEAN	:	0.17
STANDARD DEVIATION	:	0.13
MEAN - 1 STD. DEV.	:	0.04
MEAN + 1 STD. DEV.	:	0.30
MEAN + 2 STD. DEV.	:	0.43
MEDIAN	:	0.10
MODE	:	0.10
SKEWNESS	:	1.59
KURTOSIS	:	8.90
NUMBER OF CLASSES	:	10
CLASS INTERVAL	:	0.10

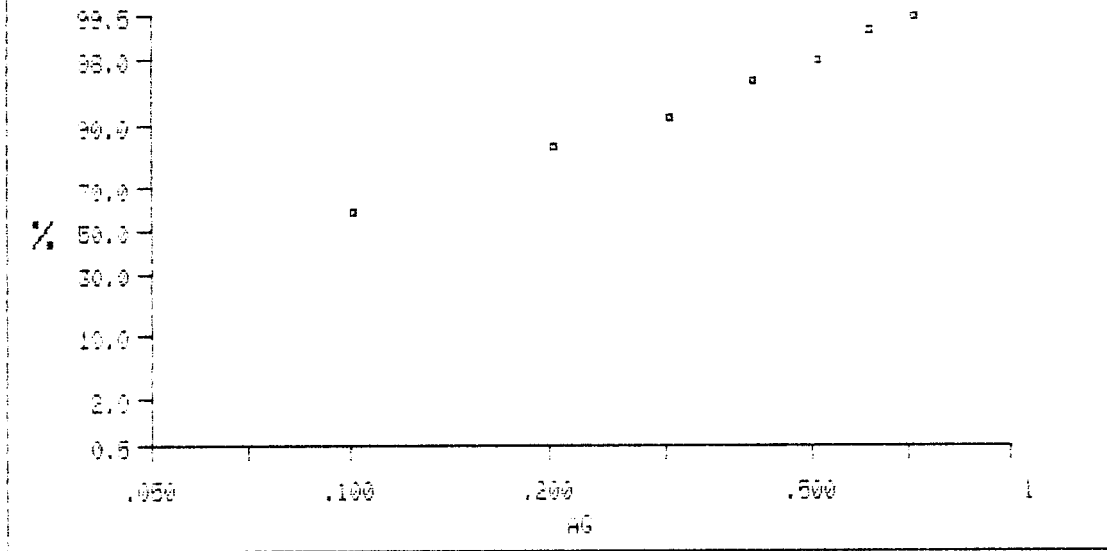


ALL BARIUM, NORTHAIR SOILS

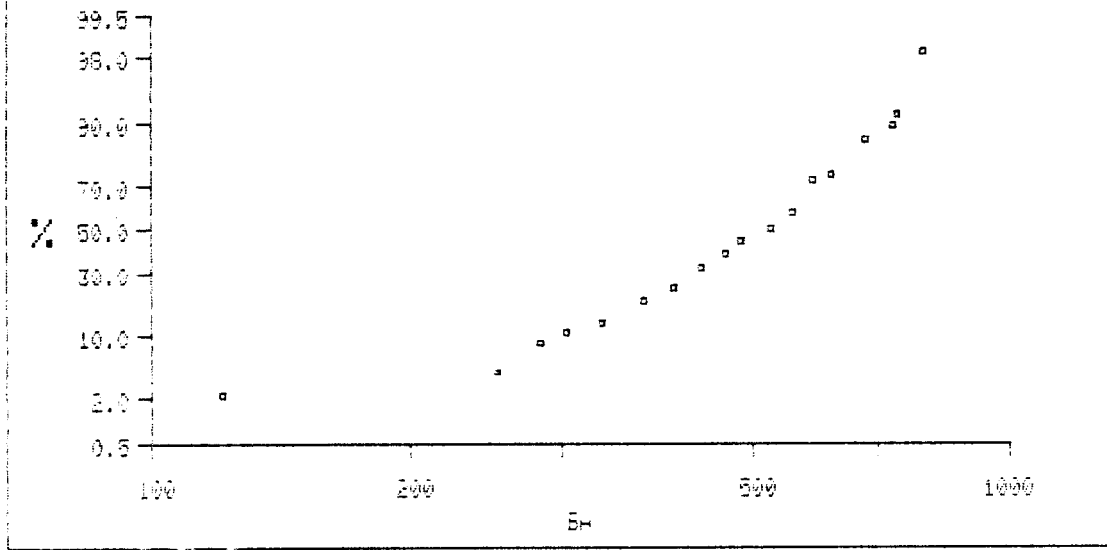
NUMBER OF SAMPLES :	50
MINIMUM :	120.0
MAXIMUM :	830.0
MEAN :	524.4
STANDARD DEVIATION :	154.5
MEAN - 1 STD. DEV. :	369.9
MEAN + 1 STD. DEV. :	678.9
MEAN + 2 STD. DEV. :	833.5
MEDIAN :	535.0
MODE :	370.0
SKEWNESS :	-0.2
KURTOSIS :	2.7
NUMBER OF CLASSES :	20
CLASS INTERVAL :	36.0



NORTHAIR SILVER IN SOILS



NORTHAIR BARIUM IN SOILS



APPENDIX 6 : THIN SECTION DESCRIPTIONS

FIELD NUMEER	SAMPLE ID.	UNIT	NOTES
EG-29	AD3851	1f	
EG-67	-	1e,f	-100m north of AD3852
EG-107	-	1e,f	-near AC0927
EG-122	AD3884	-	-altered hybrid rock near diorite contact
EG-187	AD3886	2e	
EG-189	-	2e	-near sample AC0807
EG-195	-	1c	-50m south of sample AC0969
EG-211	AD3891	3b	
EG-258	AD3961	1c	
EG-296	-	1a	-150m west of sample AC0802
EG-299	AC0803 AC0804	2h	
EG-302	-	2b	-400m east of sample AD3982
EG-319	AD3966	2a,b	
EG-345	AC0818	2c	
EG-482	AC0954	1c	
EG-505	AC0973	2c	-K-spar altered
EG-536	AF0705	1c	
SC-32	AD3847	1a,b	
SC-33	AD3848	1b,d?	
SC-166	AF1112	1e	
SC-168	AF1114	1d	
SC-229	AF1176	1e,f	
SC-231	AF1178	1e	
SC-238	AF1186	1e	
SC-248	AF1197	1a	
SC-255	AF5055	1a,b	
SC-352-1	AF5164	2a	-matrix
SC-352-2	AF5164	2a	-fragment
SC-389A	AF5202	2a	-crystal tuff fragment
SC-389B	AF5203	2a	-wacke fragment
SC-389C	AF5204	2a	-matrix
SC-389D	AF5205	2a	-argillite fragment
SC-392	AF5208	-	-diabase dyke



Vancouver Petrographics Ltd.

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Report for: Stan Clemmer,
Falconbridge Ltd.,
701 - 1281 West Georgia,
VANCOUVER, B.C., V6E 3J7

PHONE (604) 888-1323
Invoice 6846
October 1987

By: John G. Payne

Samples: SC- 32, 33, 166, 168, 229, 231, 238, 248, 255, 352-1, 352-2,
389A, 389B, 389C, 389D, 392
EG- 29, 67, 107, 122, 187, 189, 195, 211, 258, 296, 299, 302,
319, 345, 482, 505, 536

Summary:

Samples are from a dominantly andesitic volcanic terrain, with both flows and pyroclastic rocks present. A few samples are of dacite and one is of a quartz-rich exhalite.

Andesite flows commonly contain plagioclase and hornblende phenocrysts. Plagioclase is slightly to strongly altered, mainly to sericite, epidote, and/or calcite/dolomite. Hornblende is altered completely to various combinations of epidote, biotite, chlorite, calcite, quartz, and Ti-oxide. Fragmental rocks contain fragments of plagioclase, hornblende, and quartz phenocrysts and of a variety of andesite and dacite flow rocks.

Dacite flows contain plagioclase, quartz and minor biotite or hornblende phenocrysts in a groundmass dominated by equant plagioclase. Dacite pyroclastic rocks contain fragments of plagioclase and quartz phenocrysts and of dacite in a sericite-plagioclase-rich groundmass.

A few samples are of greywacke containing abundant fragments of a deformed quartz diorite and a few fragments of volcanic rocks.

Samples are grouped as follows:

A: Andesite Flows

EG-258 moderate quartz phenocrysts, andesite, diabase fragments
-345
-482 fragments of porphyritic andesite
-536 abundant veins: ct-qz-epid, epid-bio

SC- 32
-168 andesite/latite
-248 vein of qz-epidote with epidote-rich halo
-352-2 moderately abundant groundmass quartz
-255 contact with crystal tuff
-389A

B: Subvolcanic diabase

SC-392 plagioclase-clinopyroxene-Mineral X (secondary after hornblende
or pyroxene)

(continued)

C: Andesite Pyroclastic Rocks

1: Tuff

- EG-067 with abundant magnetite in some layers
- 187 very fine grained
- 302 gradational to lapilli tuff
- 319 crystal tuff
- SC- 33 crystal-lithic tuff
- 166 crystal tuff * SC-255 crystal tuff in contact with andesite flow
- 352-1
- 389B gradational to dacite crystal tuff
- 389D argillitic, very fine grained

2: Lapilli Tuff

- EG-296
- EG-302 gradational to tuff
- SC-389C

D: Dacite Pyroclastic Rocks

- EG-107 crystal tuff
- 299 very fine grained, patches of chlorite-quartz-pyrite, veinlets of Ti-oxide
- SC-166 crystal tuff
- 231 crystal tuff
- 238 crystal tuff
- 389B gradational to andesite crystal tuff

E: Greywacke (with fragments of quartz diorite, lesser volcanic rocks)

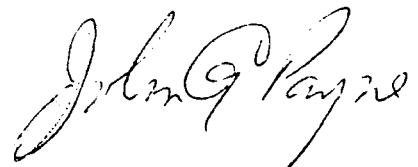
- EG-029
- 189
- SC-299

F: Latite

- EG-211
- 505
- SC-168 gradational to andesite, hornfelsed

G: Exhalite

- EG-122



John G. Payne

The rock contains fragments mainly of a deformed quartz diorite in an extremely fine grained groundmass which in places has a volcanic texture! A few fragments of porphyritic dacite are present.

fragments

1) quartz diorite		
plagioclase	20-25%	
quartz	20-25	
sphene	0.3	
2) dacite	3- 5	(in places appear to grade into groundmass)
groundmass		
plagioclase	25-30	
quartz	10-15	
epidote	7- 8	
chlorite	7- 8	
Ti-oxide/sphene	0.3	
sericite	minor	
zircon	trace	

Fragments range from 0.5-1.5 mm in average size. Plagioclase commonly is slightly to moderately deformed, as indicated by bent and broken albite twins, and slight reorientation of fragments of grains. Alteration is mainly slight to dusty sericite and minor epidote. Quartz shows uniform to slightly wavy extinction. Many fragments are aggregates of fine to medium grains of quartz and plagioclase, and others consist of aggregates of one or other of the minerals with minor interstitial chlorite and epidote. Sphene forms a few grains up to 0.6 mm in size.

Dacite forms fragments up to 1.2 mm in size; these commonly contain minor plagioclase phenocrysts from 0.1-0.3 mm in size in an extremely fine grained groundmass of equant plagioclase grains. In places these fragments appear to grade into groundmass surrounding fragments of quartz diorite.

The groundmass is dominated by extremely fine grained plagioclase with irregular patches of one or more of epidote, chlorite, and minor sericite. Epidote patches are up to 0.3 mm in size. Chlorite is concentrated in patches of subparallel, very fine grains, in part intergrown with quartz of similar grain size. Pleochroism of chlorite is from light yellowish green to light green.

Quartz is concentrated in patches up to 2 mm across of submosaic aggregates averaging 0.03-0.07 mm in grain size.

Ti-oxide and lesser sphene occur in patches up to 0.1 mm in size; Ti-oxide is extremely fine grained, and sphene is very fine grained.

Zircon forms a few equant, subrounded grains up to 0.07 mm across.

The rock is a fine to locally medium grained tuff dominated by plagioclase with lesser actinolite, quartz, and magnetite, and minor biotite, Ti-oxide, epidote, and sphene. The rock contains wispy seams of high magnetite content, mainly concentrated towards one side of the section. A sparse groundmass consists of patches of quartz and of chlorite.

plagioclase	40-45%
actinolite	17-20
quartz	12-15
epidote	7- 8
magnetite	7- 8
Ti-oxide	2- 3
biotite	2- 3
sphene	1½-2
ilmenite	1- 1½
chlorite	½- 1
apatite	trace
zircon	trace

Plagioclase forms anhedral, equant to prismatic grains averaging 0.1-0.6 mm in size. Alteration is slight to dusty sericite and epidote.

Actinolite forms anhedral, prismatic to equant grains averaging 0.2-0.4 mm in length, with a few up to 0.6 mm long. Pleochroism is from pale or light green to light or medium-light green or brownish green. A few contain abundant dusty opaque inclusions, concentrated somewhat in concentric zones near the border of the crystals.

Quartz forms anhedral grains averaging 0.2-0.5 mm in size. Many of these are partly recrystallized to finer grained, interlocking aggregates. In the groundmass, quartz forms very fine grained (0.02-0.04 mm) aggregates, in part intergrown with chlorite or actinolite of similar size.

Epidote forms irregular patches averaging 0.05-0.15 mm in size. Some appear to be replacements of plagioclase.

Magnetite forms equant grains averaging 0.05-0.15 mm in size. They are concentrated in seams parallel to original bedding(?), and commonly are surrounded by zones rich in actinolite.

Ti-oxide forms extremely fine grained patches up to 0.2 mm in size. Some of these contain abundant dusty to extremely fine grained inclusions of opaque, probably ilmenite.

Biotite forms very fine grained flakes up to 0.1 mm in size associated with actinolite and very fine grained plagioclase. Pleochroism is from straw to light to medium green. Chlorite occurs in a similar way, and commonly is intergrown with very fine grained quartz patches.

Sphene forms equant, commonly subrounded grains averaging 0.1-0.2 mm in size, with a few over 0.4 mm across.

Ilmenite forms patches of similar size and shape to plagioclase. Grains are identified as ilmenite because of minor to moderately abundant intergrown Ti-oxide, and by irregular rims of Ti-oxide, in part formed by replacement of ilmenite.

Apatite forms a very few equant grains up to 0.05 mm across.

Zircon forms one anhedral grain 0.17 mm long.

Groundmass patches are very fine grained and are dominated by quartz with minor to moderately abundant chlorite, or by plagioclase-actinolite±chlorite aggregates, in part with Ti-oxide.

The rock contains fragments of plagioclase and quartz in a groundmass dominated by plagioclase with moderately abundant sericite and epidote, and slightly less chlorite.

fragments	
plagioclase	35-40%
quartz	20-25
groundmass	
plagioclase	17-20
sericite	5- 7
epidote	5- 7
chlorite	4- 5
Ti-oxide	1- 1½
zircon	trace
limonite	trace

Plagioclase forms equant grains from 0.15-0.5 mm in average size. They are altered slightly to locally moderately to extremely fine grained, disseminated sericite. A very few grains of plagioclase contain myrmekitic inclusions of quartz.

Quartz forms equant grains from 0.1-0.5 mm in average size, and a few elongate grains up to 0.7 mm in length. Many have slightly to moderately wavy extinction, and a few have strongly wavy extinction. One is an aggregate of finer grains with sutured grain borders; the aggregate may have been recrystallized from a coarser single grain.

The groundmass is patchy, with some larger patches resembling fragments. Plagioclase forms extremely fine grained aggregates of equant grains. Sericite occurs in irregular patches and as replacements of plagioclase. In some patches it is intergrown with chlorite.

Epidote forms anhedral, very fine grained, mainly irregular patches from 0.1-0.7 mm in size. Most appear to have altered groundmass, and a few appear to have altered plagioclase fragments.

Chlorite occurs in irregular patches, commonly intergrown in subparallel intergrowths with lesser sericite. A few chlorite patches up to 0.5 mm across consist of unoriented, equant flakes. Color is pale green.

Ti-oxide forms irregular patches and lenses up to 0.1 mm in size; these consist of extremely fine grained aggregates of anhedral grains.

Zircon forms a very few prismatic grains up to 0.07 mm long.

Limonite forms wispy zones, mainly associated with sericite, which give sericite a pale to light brown color.

The rock is dominated by quartz with disseminated pyrite and muscovite, and with K-feldspar concentrated in a few layers. Moderate cataclastic deformation caused flattening of quartz grains and partial recrystallization and granulation.

quartz	85-88%
pyrite	4- 5
muscovite	4- 5
K-feldspar	1- 1½
Ti-oxide	0.3
chlorite	minor
limonite	0.3
kaolinite	0.2

Quartz forms grains from 0.3-0.8 mm in size, moderately flattened parallel to foliation. Grains are strongly strained, and many are partly recrystallized to submosaic, very fine grained aggregates with slightly to moderately variable extinction positions between adjacent subgrains.

Pyrite forms subhedral to euhedral grains and clusters of a few grains averaging 0.07-0.2 mm in grain size.

Muscovite forms equant to elongate flakes averaging 0.1-0.5 mm in size. Some are oriented parallel to foliation. Others occur in irregular to subradiating aggregates of finer grained flakes. One porphyroblastic grain is 1 mm long.

K-feldspar is concentrated in a few lenses as anhedral grains averaging 0.05-0.3 mm in size. Grains commonly are irregular in outline and partly interstitial to quartz.

Ti-oxide forms clusters up to 0.15 mm across of equant grains averaging 0.02-0.05 mm in size.

Chlorite occurs as one flake 0.3 mm long, associated with minor muscovite (parallel to cleavage) and Ti-oxide. The grain probably is secondary after biotite.

Kaolinite forms a few interstitial patches up to 0.3 mm in size. These consist of unoriented aggregates of equant flakes averaging 0.03-0.05 mm in size.

The rock is cut by a few wispy veinlets of limonite from 0.02-0.2 mm in width. Near the veinlets, pyrite is altered strongly to completely to orange-brown limonite.

The rock contains very fine grains of quartz and plagioclase in an extremely fine grained groundmass dominated by plagioclase with lesser sericite and minor epidote. It is cut by several types of veinlets and seams of: calcite-chlorite; opaque; quartz-plagioclase-(chlorite); and epidote.

plagioclase	45-50%	(5-7% coarser grains)
sericite	35-40	
quartz	4- 5	
epidote	4- 5	
opaque	0.5	
Ti-oxide	0.3	
veinlets		
calcite-chlorite; chlorite	0.5	
opaque	minor	
quartz-plagioclase-(chlorite)	0.5	
epidote seams	0.5	

Plagioclase and quartz form disseminated, subangular grains from 0.03-0.07 mm in size, with a few up to 0.1 mm long.

These are set in an extremely fine grained groundmass dominated by equant plagioclase grains and wispy sericite flakes. The latter are oriented to produce a moderately prominent foliation. Epidote forms disseminated patches from 0.01-0.03 mm in average size. Opaque and Ti-oxide form disseminated grains and clusters of grains up to 0.05 mm across.

The rock is cut by several discontinuous veinlets up to 0.2 mm wide of very fine grained calcite-chlorite with much less quartz and opaque. Other related veinlets are dominated by chlorite. A few veinlets up to 0.2 mm wide are dominated by very fine grained quartz and/or plagioclase with lesser chlorite. Wispy seams of extremely fine grained epidote cut across the rock at a low angle to foliation.

The rock contains fragments of quartz diorite, aphanitic volcanic rocks, and meta-siltstone in a groundmass dominated by plagioclase.

fragments

1) quartz diorite	
plagioclase	15-17%
quartz	17-20
hornblende(?)	0.7
2) volcanic rocks	
dacite	4- 5
andesite	0.3
3) meta-siltstone	0.3
groundmass	
plagioclase	35-40
epidote	10-12
chlorite	3- 4
calcite	2- 3
quartz	2- 3
opaque/Ti-oxide	1- 1½
zircon	trace
apatite	trace

The quartz diorite consists of fine to coarse aggregates of quartz and plagioclase, possibly with minor hornblende. Fragments are of quartz, of plagioclase, of quartz-plagioclase aggregates, and of altered hornblende. Quartz grains average 0.7-1 mm in size, with some recrystallized to finer grained aggregates. A few quartz grains contain minor rutile needles and one grain contains a euhedral grain of apatite 0.05 mm across. Plagioclase grains commonly are slightly strained and fractured. Alteration is slight to locally moderate to sericite with lesser calcite and chlorite.

Hornblende forms a few patches up to 0.8 mm in size. Alteration is complete to very fine to fine grained aggregates of calcite with lesser chlorite and locally minor muscovite and quartz.

Dacite forms fragments up to 1 mm in size. These are dominated by extremely fine grained plagioclase, with minor phenocrysts of plagioclase, mainly from 0.05-0.1 mm in size, but locally up to 0.5 mm long. The presence of the phenocrysts distinguishes some of the fragments from the very similar groundmass. Andesite forms a few fragments up to 0.5 mm in size, dominated by lathy, in part oriented plagioclase with minor to moderately abundant opaque.

A few fragments up to 1.8 mm long consist of very fine grained quartz with disseminated flakes of sericite oriented parallel to a moderate foliation, and with equant patches of calcite (minor).

The groundmass is dominated by extremely fine grained plagioclase, with minor to locally abundant patches of one or more of epidote, chlorite, and calcite. Epidote forms patches up to 0.45 mm in size of very fine to extremely fine grains. Chlorite forms clusters of subparallel flakes, in part intergrown with quartz.

Calcite forms a few patches up to 1 mm in size, probably of replacement origin.

Ti-oxide forms patches up to 0.35 mm across.

Opaque is concentrated in patches of chlorite as extremely fine grained aggregates and disseminations, and forms a few equant patches up to 0.07 mm across.

Zircon forms one equant grain 0.1 mm across, with a tiny opaque inclusion in its core. Apatite forms a very few equant grains up to 0.03 mm in size.

The rock contains phenocrysts of plagioclase and lesser hornblende and quartz in an extremely fine grained groundmass dominated by plagioclase. Alteration is strong to complete, with plagioclase replaced by sericite-(epidote) and hornblende replaced by biotite-chlorite-Ti-oxide-epidote. Replacement patches consist of epidote-(quartz) and of quartz-(biotite-epidote). Veinlets are of quartz-epidote and of chlorite.

phenocrysts		replacement patches	
plagioclase	15-17%	epidote-(quartz)	12-15%
hornblende	3- 4	quartz-(biotite-epidote)	2- 3
quartz	1- 1½	sericite- Ti-oxide	0.5
groundmass		veinlets	
plagioclase	50-55	quartz-epidote-biotite	0.5
biotite	4- 5	chlorite-(Ti-oxide)	0.1
chlorite	1- 1½		
epidote	2- 3		
Ti-oxide	0.3		
apatite	minor		

Plagioclase forms subhedral to euhedral prismatic grains up to 1.5 mm in size. They are altered strongly to completely to very fine grained aggregates of sericite, with scattered patches of extremely to very fine grained epidote. A few grains are strongly altered to epidote. Epidote with lesser quartz forms replacement patches up to 2.5 mm in size. These range from very fine to locally medium grained. Quartz occurs in cores of patches, and is surrounded by subhedral to euhedral terminations of epidote, which grew into the cavity later filled with quartz. These patches may be replacements of plagioclase phenocrysts.

Hornblende forms subhedral phenocrysts up to 1 mm in length. They are replaced completely by very fine grained aggregates dominated by biotite with lesser chlorite, epidote, and Ti-oxide. A few coarse patches of epidote may be secondary after hornblende; these contain a few inclusions up to 0.2 mm in size of apatite, and one contains a grain of zircon 0.12 mm across.

Quartz forms subrounded phenocrysts up to 1 mm in size.

The groundmass is dominated by equant grains of plagioclase averaging 0.02 mm in grain size. Biotite forms patches and seams of extremely fine to very fine grained aggregates. Chlorite occurs in similar aggregates to those of biotite. Epidote forms irregular, very fine grained patches, in part associated with biotite. Ti-oxide forms patches up to 0.5 mm in size, either alone or associated with biotite. Apatite forms scattered prismatic grains up to 0.1 mm long.

Several replacement patches from 0.3-1 mm in size consist of very fine grained to locally fine grained quartz with much less biotite and/or epidote. These probably replace groundmass plagioclase.

A few replacement patches consist of extremely fine grained aggregates of sericite with abundant anhedral, extremely fine grained patches of Ti-oxide. Their origin is uncertain; they range up to 0.7 mm in size.

The rock contains a veinlet up to 0.2 mm wide dominated by quartz with lesser biotite, and another with patches of quartz and zones of very fine grained epidote. Chlorite with minor Ti-oxide forms a wispy veinlet up to 0.1 mm wide.

EG-211 Latite cut by veins of Epidote-Quartz-Calcite and of Sericite

The rock is a slightly spherulitic, very fine grained latite flow dominated by plagioclase, with minor secondary sericite and epidote. It is cut by irregular veins and veinlets of epidote-quartz-(calcite) and by later veinlets of sericite.

plagioclase	75-80%
sericite	5- 7
epidote	1½-2
spherulites	0.5 (plagioclase)
veins	
epidote (5-7%)-quartz (3-4%)-calcite (1%)	
sericite	1

Plagioclase forms an interlocking aggregate of grains averaging 0.03-0.07 mm in size, with a few prismatic grains up to 0.1 mm long. Grains are unoriented in most of the rock. Spherulitic patches up to 0.2 mm across consist of plagioclase grains in extremely fine, radiating aggregates; they were formed by devitrification of glass.

Sericite forms wispy flakes from 0.02-0.05 mm in size intergrown intimately with plagioclase, and probably formed by replacement of plagioclase. Near some epidote-rich veins, sericite is absent or very minor.

Epidote forms irregular patches of extremely fine to very fine grains scattered through the rock, and concentrated slightly near epidote-rich veins. Patches are up to 0.7 mm in size.

The rock is cut by several irregular to patchy veins up to 2 mm wide. They are variable in composition. Most are dominated by very fine to locally fine grained epidote, with lesser patches dominated by quartz and/or quartz-calcite. Narrower veinlets commonly consist entirely of extremely fine grained epidote. Borders of veins generally are irregular against groundmass plagioclase, and textures suggest that replacement of plagioclase occurred during vein formation. Quartz-rich patches commonly have submosaic textures of grains averaging 0.03-0.08 mm in size. A few lensy patches are dominated by calcite with lesser quartz; these have submosaic textures with grains averaging 0.03-0.05 mm in size.

Late, commonly fracture-filling veinlets and veins up to 0.2 mm in width consist of sericite. These offset some of the earlier epidote-rich veins. Sericite commonly is oriented at an oblique angle to the borders of the veins, forming subparallel aggregates of slender flakes.

The rock contains abundant phenocrysts of plagioclase and lesser ones of hornblende and quartz, and clusters of opaque in a groundmass dominated by plagioclase with lesser biotite and minor chlorite and epidote. The fragment in one corner of the hand sample appears to be of a very fine grained andesite, probably strongly altered to epidote-chlorite. A small fragment in the section is of a fine diabase?

phenocrysts		fragment	0.3%
plagioclase	25-30%	plagioclase	40-45%
quartz	4- 5	biotite	30-35
hornblende	4- 5	epidote	20-25
opaque	1- 1½		
groundmass			
plagioclase	40-45		
biotite	10-12		
chlorite	1½-2		
epidote	2- 3		
opaque	½- 1		
apatite	0.1		

Plagioclase forms euhedral to subhedral phenocrysts from 0.7-3 mm in size. It is moderately to locally completely altered, mainly by fine to very fine grained patches of epidote, with lesser calcite and minor chlorite. A few grains contain irregular patches of extremely fine grained sericite.

Quartz forms anhedral, rounded to irregular phenocrysts averaging 0.2-0.8 mm in size, with one large phenocryst 3.5 mm across. Extinction varies from uniform to moderately wavy. One contains a subhedral(?) patch of epidote 0.5 mm long, possibly secondary after a plagioclase phenocryst. The large phenocryst is cut by a few wispy veinlets up to 0.05 mm wide of very fine grained quartz and much less calcite.

Hornblende forms subhedral phenocrysts from 0.8-2 mm in size. Alteration is complete to a variety of secondary aggregates of very fine grain size, mainly dominated by biotite or chlorite, with lesser epidote, Ti-oxide, quartz, calcite, and opaque/Ti-oxide. Apatite is common as subhedral prismatic grains up to 0.1 mm long intergrown near or along borders of hornblende grains.

Opaque forms a few clusters up to 1.7 mm in size of equant, subrounded grains averaging 0.3-0.7 mm in size. These probably are dominated by ilmenite with much less magnetite. Ilmenite is partly altered to Ti-oxide.

Plagioclase in the groundmass consists of unoriented, slightly interlocking aggregates of equant to slightly prismatic grains averaging 0.01-0.05 mm in size, with scattered tiny phenocrysts averaging 0.05-0.3 mm in length.

Biotite forms extremely fine grained (0.01-0.03 mm) flakes intergrown with plagioclase. Pleochroism is from light to medium brownish green. Chlorite occurs in similar textures, and is moderately concentrated in patches along borders of some plagioclase phenocrysts. It is pale green in color with weak pleochroism.

Epidote forms irregular patches from extremely fine grained to locally fine grained. One patch 0.7 mm across consists of subradiating, fine grained epidote. It is surrounded by a rim up to 0.2 mm thick of extremely fine grained epidote with minor patches of Ti-oxide and of quartz.

(continued)

Opaque forms scattered patches up to 0.3 mm in size of very fine grained aggregates with minor to moderately abundant interstitial chlorite. It also forms single grains up to 0.05 mm in size; some of these appear to be subhedral pyrite and others to be ilmenite partly replaced to Ti-oxide.

Apatite forms disseminated grains from 0.02-0.07 mm in size, commonly associated with hornblende or opaque patches.

The fragment in the section is 1.5 mm long and consists of fine grained plagioclase intergrown with patches of biotite flakes and irregular grains of epidote. It probably is an early-formed sub-volcanic aggregate caught up in the andesite magma.

The rock contains fragments up to 1.5 cm in size of a variety of andesites, and single plagioclase phenocryst fragments up to 1.3 mm in size in a moderately foliated groundmass dominated by sericite and plagioclase.

fragments	
andesite	50-55%
plagioclase	15-17
hornblende	1
groundmass	25-30

The largest fragment in one corner of the section contains plagioclase phenocrysts from 0.3-1.5 mm in size and abundant patches of epidote up to 1.2 mm in size, with moderately abundant euhedral pyrite grains up to 1.5 mm across, and scattered patches of chlorite± quartz up to 0.7 mm in size. These are set in a groundmass dominated by equant plagioclase from 0.02-0.03 mm in grain size, with irregular patches and intergrowths of chlorite and Ti-oxide/opaque. Plagioclase phenocrysts are slightly to strongly altered to chlorite and/or epidote. Pyrite is altered to rims and embayments of red translucent hematite, probably surrounding cores of opaque hematite with minor relic primary pyrite. Chlorite contains minor biotite; chlorite is light green in color and biotite is medium green.

Smaller andesite fragments commonly contain moderately abundant phenocrysts of plagioclase up to 1.2 mm in size in an extremely fine grained groundmass dominated by plagioclase, with minor to moderately abundant amounts of one or more of epidote, chlorite, or biotite, with less opaque/Ti-oxide and/or quartz.

Plagioclase forms equant to prismatic grains up to 1.3 mm in size. These are altered slightly to moderately to sericite, with lesser epidote and locally minor chlorite/biotite.

A few patches up to 3 mm across consist of very fine to locally fine grained aggregates of chlorite, with lesser Ti-oxide, opaque, epidote, biotite, and sericite. These patches probably are replacements of hornblende phenocrysts. One such patch has a rim of extremely fine grained epidote.

The groundmass is extremely fine grained, and generally contains moderately abundant to abundant sericite in wispy seams and bands, with grains oriented along bands giving the rock a moderate foliation. Where sericite is less abundant, extremely fine grained plagioclase of the groundmass is difficult to distinguish from similar plagioclase in the andesite fragments. Epidote forms disseminated, irregular patches up to 0.1 mm in size.

The rock contains minor very fine grains of quartz in an extremely fine grained groundmass dominated by plagioclase and sericite. Replacement patches up to 2 mm across consist of aggregates of chlorite, quartz, and pyrite. Wispy, crenulated veinlets are of dusty Ti-oxide.

plagioclase	60-65%
sericite	20-25
quartz	4- 5
Ti-oxide	1
apatite	0.1
patches	
chlorite	3- 4
quartz	3- 4
pyrite	1½-2
epidote-(quartz)	0.2
veinlets	
Ti-oxide	0.7

Quartz forms equant to elongate, subangular to subrounded grains averaging 0.02-0.03 mm in average size. These are disseminated uniformly through the rock.

Plagioclase forms aggregates of extremely fine grained, equant, slightly to moderately interlocking grains averaging 0.01 mm in size.

Sericite forms wispy, extremely fine grained flakes uniformly distributed through the rock, and oriented to produce a moderate foliation.

Ti-oxide forms disseminated patches from 0.02-0.05 mm in average size.

Apatite forms anhedral, equant grains up to 0.03 mm across.

The rock contains patches of very fine to fine grained aggregates of chlorite and quartz, with subhedral to euhedral pyrite grains averaging 0.3-0.5 mm in size. Similar pyrite grains are disseminated in the rock near the quartz-chlorite patches. Patches are moderately concentrated in one part of the section; here the patches are larger than elsewhere, and contain more pyrite. Away from this zone, patches average 0.1-0.4 mm in size. The ratio of quartz/chlorite varies moderately between patches, with a few consisting entirely of chlorite, and a few others dominated by quartz with only minor chlorite. Chlorite is pale green with a light brownish grey interference color.

Scattered patches up to 0.15 mm across consist of aggregates of anhedral to subhedral prismatic epidote grains up to 0.1 mm in length intergrown with minor interstitial quartz. These patches are equant and commonly well rounded.

The rock is cut by a few veinlets up to 0.05 mm in width of extremely fine grained Ti-oxide. Most veinlets are crenulated moderately, suggesting deformation during shear folding. The axial plane of crenulations is subparallel to foliation as defined by orientation of sericite.

The rock contains two main zones with a relatively sharp contact. One zone is characterized by a sericite-rich groundmass. In much of this zone, fragments are less than 0.1 mm in size. Towards one side of the section the abundance of larger fragments increases rapidly. The other zone, which may be a large fragment in the first zone, is characterized by a groundmass rich in quartz/plagioclase and chlorite, with abundant replacement patches of calcite and with scattered patches rich in sericite. In this zone, fragments are mainly plagioclase phenocrysts. In the sericite-rich zone, fragments are of andesite and of plagioclase.

sericite-rich groundmass

Much of this zone contains scattered fragments of plagioclase and minor andesite up to 0.1 mm in size in a moderately well foliated groundmass dominated by sericite with lesser chlorite and plagioclase, and with disseminated patches of Ti-oxide, all of extremely fine grain size. In fragment-rich parts of this zone, fragments up to 1.5 mm in size are dominated by plagioclase grains and porphyritic andesite. Plagioclase grains are altered slightly to moderately to disseminated chlorite flakes and lesser patches of calcite. Andesite fragments contain minor to very abundant plagioclase phenocrysts in a groundmass of equant to lathy plagioclase with moderately abundant chlorite and minor opaque/Ti-oxide. Quartz forms a few fragments up to 0.6 mm across. Sphene forms a very few fragments up to 0.2 mm across. Calcite forms a few replacement patches of very fine grains near one side of the thin section in the fragment-rich part of the zone; intergrown with calcite are minor quartz and chlorite. The groundmass contains a few patches of extremely fine grained quartz with lesser calcite and chlorite.

chlorite-quartz-calcite-rich groundmass

The groundmass is characterized by extremely fine grained, equant quartz/plagioclase (0.01-0.02 mm) intergrown with minor to abundant chlorite. Calcite forms abundant, irregular replacement patches of very fine to fine grain size. Sericite is concentrated in a few extremely fine grained patches, where it is intergrown with lesser chlorite. Ti-oxide forms minor disseminated patches up to 0.02 mm in size.

Fragments are mainly of plagioclase grains from 0.3-0.7 mm in size, with a few up to 1.5 mm across. Alteration is similar to that of plagioclase in the other zone. Sphene and Ti-oxide form a few fragments up to 0.3 mm in size. Apatite forms scattered subhedral to euhedral grains with cross sections up to 0.1 mm across.

The rock contains fragments of plagioclase phenocrysts and patches of chlorite-calcite-(Ti-oxide-quartz) after hornblende phenocrysts in a moderately to well foliated groundmass dominated by sericite with much less chlorite, calcite, epidote, and Ti-oxide. A few fragments may be of andesite.

fragments	
plagioclase	30-35%
hornblende	4- 5
andesite	$\frac{1}{2}$ - 1
groundmass	
sericite	45-50
chlorite	3- 4
calcite	3- 4
epidote	1- 2
Ti-oxide	$\frac{1}{2}$ - 1

Plagioclase forms prismatic to equant crystal fragments averaging 0.2-0.7 mm in size, with a few up to 1.8 mm across. Alteration is moderate to irregular patches of calcite, epidote, and sericite.

Hornblende forms patches up to 2 mm across. It is altered completely to very fine grained aggregates of chlorite, calcite, and lesser Ti-oxide and quartz, with epidote moderately abundant to abundant in the largest patch.

The groundmass is dominated by moderately foliated, very fine grained sericite flakes, with very fine grains and patches of chlorite, calcite, and lesser epidote, and extremely fine grained patches of Ti-oxide.

A few fragments up to 1.5 mm in size may be of altered andesite dominated by plagioclase.

The rock contains phenocrysts of plagioclase and minor ones of hornblende and apatite in a groundmass dominated by plagioclase with abundant secondary epidote, and minor biotite, sericite, quartz, and dolomite. The rock is weakly foliated, with foliation defined by seams of biotite and parallel orientation of sericite in sericite-rich alteration zones.

phenocrysts	
plagioclase	17-20%
hornblende	0.2
apatite	minor
groundmass	
plagioclase	50-55
epidote	12-15
biotite	2- 3
quartz	2- 3
Ti-oxide	0.5
dolomite	0.5
chlorite	0.5
patches	
quartz-dolomite	0.2

Plagioclase forms anhedral to subhedral prismatic phenocrysts averaging 0.5-1.5 mm in length. It is moderately to strongly altered to irregular patches of very fine grained epidote, and locally contains wispy patches of chlorite and of dolomite.

Hornblende forms a very few phenocrysts up to 0.7 mm across. It is altered completely to aggregates of very fine grained biotite with lesser chlorite and moderately abundant, extremely fine grained disseminated Ti-oxide.

Apatite forms a few elongate prismatic grains up to 0.35 mm in length.

The groundmass is dominated by plagioclase in extremely fine (0.01-0.03 mm) aggregates of equant grains, with a few prismatic grains from 0.05-0.07 mm in size. Sericite is concentrated in a few seams up to 1 mm wide; in these it forms wispy concentrations of extremely fine grained flakes oriented in the foliation plane, and intergrown with plagioclase. Sericite most probably was formed by replacement of groundmass plagioclase.

Epidote forms irregular, extremely fine to very fine grained patches as in the plagioclase phenocrysts.

Biotite forms irregular patches and disseminated grains, in part intergrown with plagioclase or quartz, and in part with chlorite, and possibly after hornblende. Pleochroism is from light to medium brownish green. Chlorite occurs with biotite, and is pale to light green in color.

Quartz occurs as extremely fine grains intergrown with plagioclase in the groundmass, and commonly concentrated in irregular patches and lenses. In the latter, it generally is intimately intergrown with biotite or chlorite.

Ti-oxide forms wispy lenses up to 0.2 mm in length of extremely fine grained aggregates.

Dolomite forms patches up to 0.7 mm in size, mainly of one or a few grains. Similar patches occur locally as replacements(?) of plagioclase. A few patches contain wispy streaks of hematite/limonite.

The rock contains a few patches of quartz-dolomite of secondary origin. The largest is 1.7 x 0.5 mm in size, and consists of a submosaic aggregate of grains averaging 0.05-0.1 mm in size.

The rock contains subhedral to euhedral phenocrysts of plagioclase and much less hornblende and minor apatite in a very fine to extremely fine grained groundmass dominated by plagioclase with lesser biotite and minor epidote, magnetite, and calcite. Fragments up to 8 mm across are of less porphyritic andesite with a slightly coarser groundmass and more abundant quartz. The veinlets are up to 0.2 mm in width and dominated by epidote, with centerlines in some of calcite.

phenocrysts		fragments	
plagioclase	17-20%	porphyritic andesite	7- 8%
hornblende	2- 3	veinlets	
apatite	minor	epidote-(calcite)	1- 1½
opaque	0.5		
groundmass			
plagioclase	50-55		
biotite	15-17		
epidote	3- 4		
magnetite	2- 3		
calcite	1- 2		
quartz	0.3		

Plagioclase forms subhedral to euhedral phenocrysts in two main size ranges, 1) 1-3 mm, and 2) 0.3-0.7 mm. Larger phenocrysts commonly are moderately zoned with fine oscillatory zones. Composition is An₄₅₋₅₀. Some have thin rims of more-sodic composition. Alteration is variable. Commonly cores are relatively fresh, and zones near the rim are strongly altered to extremely fine grained, disseminated epidote. In a few grains, similar epidote alteration affects all of the grains except for a thin rim (probably more sodic). Some grains also contain patches of calcite and disseminated flakes and clusters of flakes of biotite. Smaller phenocrysts are prismatic, and slightly less altered than larger ones.

Hornblende phenocrysts are up to 4 mm in length, but most are less than 1 mm long. Alteration is complete to very fine grained patches dominated by biotite with lesser epidote, Ti-oxide, opaque, and quartz. Biotite is pleochroic from light to medium brownish green. Opaque commonly forms dusty disseminations and a few equant, very fine grains (possibly primary magnetite). Apatite is common with hornblende as subhedral to euhedral grains up to 0.2 mm in length. One apatite phenocryst is 0.5 mm long.

Opaque forms a few patches 1.5 mm across, composed of fine grained aggregates. Associated with the largest patch are moderately abundant apatite grains up to 0.3 mm in size.

In the groundmass, plagioclase forms anhedral grains averaging 0.02-0.03 mm in size, and a few coarser prismatic grains from 0.05-0.1 mm in length. It is intimately intergrown with extremely fine grained, pale to light or medium-light brown biotite. Epidote forms extremely fine to very fine disseminated grains and patches of grains averaging 0.03-0.1 mm in size. Magnetite forms disseminated grains averaging 0.02-0.05 mm in size, and patches of extremely fine grains up to 0.05 mm across. The latter grade into zones of abundant disseminated opaque grains intergrown with other groundmass minerals. Calcite forms irregular to equant patches averaging 0.03-0.08 mm across. Quartz forms a few very fine grained patches intergrown with lesser biotite.

(continued)

The fragments contain up to 10% plagioclase phenocrysts up to 1 mm in size, and up to 7% hornblende phenocrysts up to 0.5 mm in size. Plagioclase is unzoned and slightly altered to epidote/sericite. Hornblende forms euhedral, equant crystals, altered completely to calcite-epidote-(biotite-opaque). Calcite is concentrated in the cores as fine grains. Epidote forms very fine grained patches towards the borders, intergrown locally with biotite. Biotite and more abundant opaque occur along crystal borders. The groundmass contains equant to slightly prismatic plagioclase from 0.02-0.05 mm in average size, with moderately abundant (up to 10%) equant quartz grains averaging 0.02-0.03 mm across. Biotite and opaque are moderately abundant, and form very fine grained aggregates of biotite with extremely fine grained disseminations and very fine grained patches of opaque. Apatite forms disseminated ragged acicular grains up to 0.12 mm long.

The rock is cut by veinlets of extremely fine to very fine grained epidote, with or without calcite. Calcite is concentrated along the centerline of one vein, and in lesser amounts along one side of another veinlet.

The rock contains plagioclase phenocrysts in a groundmass dominated by K-feldspar with moderately abundant Ti-oxide/sphene. Replacement lenses, patches, and disseminated grains are of quartz-sericite-pyrite-(K-feldspar). Possibly much of the K-feldspar in the groundmass was formed by replacement of plagioclase; thus the original rock type is uncertain. If the K-feldspar were all primary, the rock would be a trachy-latite.

phenocrysts		replacement patches	
plagioclase	15-17%	quartz	5- 7%
groundmass		pyrite	3- 4
K-feldspar	70-75	sericite	1½-2
quartz	minor	K-feldspar	0.2
Ti-oxide/sphene	½- 1		
sericite	1½-2		

Plagioclase forms subhedral phenocrysts averaging 0.3-0.7 mm in size, with a few up to 1.5 mm long. Alteration is variable from slight to moderate to irregular patches of very fine grained sericite, which locally shows subradiating textures of flakes up to 0.1 mm long. Epidote forms scattered patches up to 0.07 mm in size.

The groundmass is dominated by feathery to prismatic K-feldspar averaging 0.02-0.05 mm in grain size. Quartz forms disseminated grains up to 0.05 mm in size. Ti-oxide and sphene occur in ragged patches up to 0.3 mm in size. The abundance of Ti-oxide and sphene suggests that the parent rock was intermediate in composition (latite to andesite) rather than potassic (trachyte to trachy-latite). Sericite forms wispy, extremely fine grained patches and lenses.

The rock contains replacement lenses and patches up to 1.2 mm in size. These are dominated by very fine grained (0.05-0.08 mm) quartz, with patches of pyrite up to 0.5 mm in size and patches of sericite of very fine grain size. K-feldspar occurs along borders of some patches against the K-feldspar groundmass of the rock as extremely fine grains and aggregates. Pyrite also occurs as disseminated grains in the host rock, averaging 0.05-0.08 mm in size

The rock contains phenocrysts of plagioclase and lesser ones of hornblende in a groundmass dominated by plagioclase with lesser biotite and minor epidote, opaque, calcite, and quartz. It is cut by a large vein of calcite-quartz-epidote, and smaller, more discontinuous veinlets and patches of epidote-biotite.

phenocrysts		veins	
plagioclase	25-30%	calcite-quartz-epidote	7- 8%
hornblende	3- 4	epidote-biotite	3- 4
apatite	minor		
Ti-oxide	minor		
groundmass			
plagioclase	45-50		
biotite	8-10		
epidote	1		
opaque	1- 1½		
calcite	0.3		
quartz	0.1		
apatite	minor		

Plagioclase forms euhedral to subhedral phenocrysts and clusters of phenocrysts from 0.3-1.5 mm in average grain size. Some clusters contain minor patches of calcite. Alteration of plagioclase is slight to moderate to dusty epidote.

Hornblende forms prismatic phenocrysts up to 1.2 mm in length. It is altered completely to very fine to fine grained aggregates dominated by flakes of biotite and interstitial patches of chlorite, with lesser Ti-oxide/sphene and quartz.

Apatite forms a few prismatic phenocrysts up to 0.3 mm in length.

Ti-oxide forms a very few patches up to 0.4 mm across associated with clusters of plagioclase phenocrysts.

The groundmass is dominated by plagioclase grains averaging 0.02-0.1 mm in size. These range from irregular, moderately interlocking grains to a few prismatic grains.

Biotite forms anhedral, equant flakes averaging 0.03-0.05 mm in size. It is pleochroic from light to medium brownish green. Epidote forms extremely fine disseminations and very fine grained patches. Opaque, in small part magnetite, forms very fine grained patches up to 0.2 mm in size, in part intergrown with minor chlorite and/or biotite. Ti-oxide occurs with opaque in extremely fine grained patches, suggesting that some of the opaque is ilmenite. Calcite and quartz form interstitial grains and clusters of a few grains averaging 0.05-0.1 mm in size. Apatite forms subhedral prismatic grains, which grade upwards in size to those described under "phenocrysts".

The large vein is up to 2 mm across, and is dominated by fine to medium grained calcite, with very fine grained quartz concentrated along one border, and epidote occurring as patches of extremely fine to very fine grains along the margin of the vein, and as subhedral to euhedral equant to acicular grains within the coarsest calcite grains.

Irregular patches, veinlets, and seams consist of very fine grained epidote and biotite in patchy intergrowths.

The rock contains plagioclase and minor hornblende phenocrysts in a groundmass dominated by plagioclase with patches of calcite. Plagioclase is altered strongly to epidote, and hornblende completely to chlorite-(Ti-oxide). Textures of the groundmass favor a magmatic origin (flow), but are not sufficiently distinct to rule out the possibility of a tuffaceous origin.

phenocrysts	
plagioclase	30-35%
hornblende	1- 2
apatite	0.1
groundmass	
plagioclase	50-55
calcite	5- 7
chlorite	2- 3
Ti-oxide	$\frac{1}{2}$ - 1
apatite	minor
quartz	minor

Plagioclase forms euhedral phenocrysts averaging 0.5-1.5 mm in size. Alteration is strong and variable, commonly related to concentric zones in the crystals. Cores commonly are fresh; one grain gave a composition of An₄₀. In one large grain, the core contains a patch up to 0.3 mm across of Ti-oxide intimately intergrown with lesser green biotite. This is surrounded by an irregular patch containing abundant green biotite and epidote, and a few grains of apatite. A few grains are moderately altered to sericite, and some contain patches of chlorite and of calcite. Outer zones generally are altered strongly to epidote. *

Hornblende phenocrysts up to 1.5 mm long are altered completely to chlorite aggregates with minor Ti-oxide.

Apatite forms a few prismatic grains from 0.15-0.25 mm in length; they have a light brown color from dusty opaque inclusions.

The groundmass is dominated by extremely fine grained plagioclase, which locally shows a slightly preferred orientation. The groundmass is altered strongly to extremely fine grained epidote.

Calcite forms patches up to 1.5 mm in size of very fine grained, equant, submosaic aggregates; most patches are lensy in outline. Some contain minor aggregates of very fine grained quartz and/or chlorite.

Chlorite forms extremely fine grains and aggregates disseminated in the rock. Ti-oxide occurs with chlorite and with epidote, and in places is difficult to distinguish from epidote because of the extremely fine grain size. Apatite forms subhedral prismatic grains from 0.05-0.1 mm in length. Zircon forms one anhedral grain 0.1 mm long. Quartz forms a few patches of grains averaging 0.02-0.03 mm in size.

The rock is cut by a veinlet 0.03 mm in width of quartz and chlorite.

* Thin rims on many plagioclase phenocrysts consist of more-sodic plagioclase than in the cores. Parts of these rims are replaced by extremely fine to very fine grained calcite.

The rock contains fragments of plagioclase and lesser quartz grains (original phenocrysts) and lenses and patches of a variety of andesitic(?) rocks. These are enclosed in a foliated groundmass dominated by sericite-plagioclase.

fragments

plagioclase	12-15%
quartz	1- 1½
apatite	minor
chlorite- Ti-oxide	7- 8
andesite	7- 8
quartz/plagioclase-chlorite	1- 1½

groundmass

plagioclase-sericite	65-70
epidote	2- 3
chlorite	2- 3
opaque	minor
calcite	trace
zircon	trace

veinlets

1) quartz-(calcite-chlorite-plagioclase)	0.1%
2) calcite	trace

Plagioclase forms phenocrysts and aggregates of a few phenocrysts up to 2.5 mm in size, averaging 0.5-1 mm. Compositional zoning is prominent, from more-calcic cores to more-sodic rims. One compositional determination on the core of a grain gave An₄₀. Along borders of many plagioclase grains are patches of very fine to locally fine grained muscovite and/or chlorite. A few phenocrysts are cut by sericite veinlets. One contains minor calcite replacement patches up to 0.1 mm across.

Quartz forms subrounded to elongate grains up to 0.6 mm across.

Apatite forms one subhedral prismatic grain 0.3 mm long.

Lenses up to 1.5 mm long consist of extremely fine grained aggregates of chlorite with minor to moderately abundant disseminated Ti-oxide. Chlorite is oriented parallel to the length of the lens, which also is parallel to the foliation in the groundmass.

Several patches up to 3 mm long are of andesite. Some of these contain plagioclase phenocrysts up to 0.6 mm in length. The groundmass is extremely fine grained and dominated by sericite-plagioclase and chlorite, with calcite and epidote abundant in some.

One elongate patch 1.5 mm in length consists of equant quartz/plagioclase grains averaging 0.02 mm in size, with seams and patches of extremely fine grained chlorite parallel to its length.

The groundmass is dominated by extremely fine grained plagioclase and sericite (sericite probably is secondary after plagioclase). Epidote forms disseminated patches averaging 0.05 mm in size. Chlorite is concentrated in lenses parallel to foliation, averaging less than 0.15 mm in length. Opaque forms minor grains up to 0.05 mm across. Calcite forms scattered patches up to 0.05 mm across. Zircon forms a few anhedral grains up to 0.1 mm in size; three of these are clustered in one patch.

The rock is cut by a veinlet up to 0.07 mm in width of quartz with minor calcite, chlorite, and plagioclase in separate patches.

A wispy veinlet up to 0.7 mm long and 0.01 mm wide is of calcite.

SC-166 Crystal Tuff : Plagioclase-Quartz-Epidote-(Chlorite-Calcite)

The rock has a granular texture, consisting of equant to elongate grains of quartz and plagioclase, with lesser grains and patches of calcite, opaque, and biotite, and a few rock fragments in a sparse groundmass dominated by chlorite. Grain size is fine. The rock has some features of a dike rock, but the granular texture and the high quartz content suggest that it is a fragmental rock.

plagioclase	35-40%
quartz	17-20
epidote	17-20
chlorite	7- 9
calcite	4- 5
opaque	2- 3
Ti-oxide	1- 1½
biotite	1- 1½
apatite	minor
fragment	
andesite	1½-2

Plagioclase forms equant grains averaging 0.07-0.25 mm in size. Alteration is slight to sericite and chlorite. Composition appears to be andesine/oligoclase.

Quartz forms equant to locally elongate grains and patches averaging 0.15-0.5 mm in size. Many grains are subangular in outline. Extinction is uniform to slightly wavy. A few patches up to 0.3 mm in size consist of extremely to very fine grained aggregates of quartz intergrown with lesser calcite.

Epidote forms equant to irregular patches averaging 0.1-0.25 mm in size.

Calcite forms equant patches from 0.1-0.3 mm in average size.

Chlorite forms interstitial seams and patches of extremely fine grained, light to medium green aggregates of unoriented to slightly oriented flakes.

Opaque forms equant patches averaging 0.05-0.15 mm in size. It also occurs as dusty to extremely fine grained disseminations in some small carbonate patches.

Ti-oxide forms extremely fine grained patches up to 0.1 mm in size associated with chlorite and opaque.

Apatite forms a few subhedral to anhedral grains up to 0.2 mm long.

Biotite forms equant flakes averaging 0.15-0.25 mm in size; pleochroism is from light to medium brown or greenish brown.

The andesite fragment is 1.8 mm across and contains minor plagioclase phenocrysts up to 0.6 mm in length in a groundmass dominated by lathy to equant plagioclase and minor sericite, chlorite, and opaque.

The rock contains phenocrysts of plagioclase and much less hornblende in a groundmass dominated by equant, extremely fine to very fine grained plagioclase, with much less biotite, calcite, epidote, and magnetite. Plagioclase is moderately to strongly altered to sericite-calcite, and hornblende is altered completely to biotite-epidote-Ti-oxide-calcite. The rock contains secondary patches of quartz-calcite.

phenocrysts	
plagioclase	25-30%
hornblende	5- 7
groundmass	
plagioclase	45-50 (including secondary sericite)
biotite	7- 8
calcite	2- 3
opaque	2- 2½
epidote	1- 2
apatite	0.1
secondary patches	
quartz	2- 3
calcite	0.5

Plagioclase forms subhedral to euhedral prismatic phenocrysts averaging 0.5-1.5 mm in size, with a few up to 2.5 mm long. Alteration is moderate to extremely fine grained sericite and lesser biotite flakes, and slight to moderate to calcite. A few grains show fine concentric compositional zoning towards more-sodic rims, but with abundant oscillatory zones. Composition is in the range andesine-oligoclase.

Hornblende forms equant to elongate phenocrysts up to 2.5 mm in length. Alteration is complete to very fine grained aggregates of biotite with lesser irregular patches of epidote, calcite, Ti-oxide, and opaque. Biotite is pleochroic from light to medium brownish green.

Plagioclase in the groundmass forms equant, slightly interlocking grains averaging 0.03-0.05 mm in size. It is altered moderately to sericite and lesser biotite.

Biotite also forms disseminated grains in the groundmass and clusters of grains up to 0.2 mm in size. It commonly is associated with Ti-oxide. Pleochroism is from light to medium brownish green. Textures suggest that biotite was formed during contact metamorphism.

Calcite forms patches and disseminations of anhedral grains averaging 0.03-0.05 mm in size. Commonly it is concentrated near altered hornblende grains and along borders of plagioclase grains.

Opaque, in part magnetite, forms disseminated equant grains averaging 0.07-0.1 mm in size, and also as disseminated, subhedral cubic grains averaging 0.005-0.01 mm in size. The latter may be the product of contact metamorphism.

Epidote forms anhedral to subhedral patches averaging 0.05-0.1 mm in grain size.

Apatite forms ragged to subhedral prismatic grains up to 0.13 mm in length.

The rock contains irregular patches from 0.2-1 mm in size of fine grained quartz, commonly showing slightly sutured grain borders. Some of the quartz may have been recrystallized from coarser grains. In a few patches and especially in the largest patch, calcite forms fine grains intergrown slightly with quartz.

The rock contains a wide variety of fragment types ranging from 0.7-1.5 mm in average size. Major types include plagioclase and quartz grains and aggregates from a deformed quartz diorite, and a few types of dacite and andesite. These are set in a groundmass dominated by plagioclase, with irregular patches of chlorite, epidote, quartz, calcite, and opaque.

fragments

1) quartz diorite				
plagioclase	25-30%			
quartz	20-25			
hornblende(?)	0.3	sphene	0.3	
biotite	minor	opaque	0.2	
2) volcanic rocks				
dacite	10-12			
andesite	1- 2			
groundmass				
plagioclase	25-30			
chlorite	4- 5			
epidote	2- 3			
calcite	4- 5			
quartz	2- 3			
opaque	1- 1½			

Plagioclase and quartz grains in the quartz diorite range from 0.3-1.2 mm in average size. Plagioclase commonly is moderately fractured and bent. It is altered slightly to moderately to sericite and calcite, with local patches of epidote. Quartz is unstrained to moderately strained, and in a moderate number of fragments is recrystallized to finer grained aggregates. A few quartz grains contain inclusions of acicular rutile and one grain contains a rounded inclusion of apatite 0.1 mm across. Plagioclase-quartz aggregates are common.

Hornblende(?) forms a very few grains up to 1.2 mm in size; they are altered completely to very fine grained aggregates of epidote, calcite, and chlorite, with lesser opaque.

Biotite forms a very few grains up to 0.5 mm in size. It is altered completely to abundant opaque (oriented along cleavage of biotite) and minor quartz and/or chlorite.

Sphene forms equant to elongate grains up to 0.6 mm in size.

Opaque forms a few patches up to 0.5 mm across.

Volcanic rocks are dominated by porphyritic dacite, with scattered plagioclase phenocrysts up to 0.5 mm in size in an extremely fine grained groundmass dominated by plagioclase. Other fragments consist of very fine grained plagioclase in equant to prismatic, slightly interlocking aggregates, with minor to moderately abundant interstitial chlorite. A few fragments of andesite contain lathy plagioclase in slightly oriented aggregates of extremely fine to very fine grain size.

Fragments are set in a groundmass of extremely fine grained plagioclase, with patches of extremely fine to very fine grained chlorite, epidote, calcite, or quartz. In places, fragments cannot be distinguished from groundmass (i.e., those of non-porphyritic dacite). Opaque occurs in ragged patches intergrown with chlorite and with epidote. Calcite forms a few larger patches up to 1.3 mm in size, probably of replacement origin.

The rock contains fine grained fragments of plagioclase and quartz crystals in an extremely fine grained groundmass of plagioclase-sericite-chlorite-epidote-calcite. It is cut by a wispy veinlet of pyrite, and contains secondary limonite concentrations in the groundmass.

fragments			
plagioclase	40-45%	limonite	0.1%
quartz	12-15		
apatite	trace		
groundmass			
plagioclase	10-12		
sericite	12-15		
chlorite	5- 7		
epidote	3- 4		
calcite	1½-2		
Ti-oxide/ilmenite	0.2		
veinlet			
pyrite-(epidote)	1½-2		

Plagioclase forms equant grains averaging 0.1-0.5 mm in size. Composition is oligoclase/andesine. A few grains are slightly compositionally zoned towards more-sodic rims. One grain contains inclusions of quartz in a myrmekitic texture. Alteration is slight to sericite and/or epidote.

Quartz forms equant grains averaging 0.1-0.3 mm in size. Many larger ones show moderately strained extinction. A few fragments consist of aggregates of very fine grains, possibly formed by recrystallization of coarser grains.

Apatite forms a very few equant grains up to 0.15 mm across. They are colored pale brown from dusty inclusions.

The groundmass is patchy. Plagioclase occurs in extremely fine grained aggregates, in part intergrown with sericite and chlorite. Sericite forms aggregates of wispy flakes parallel to a weak to moderate foliation; it may be secondary after plagioclase. Chlorite forms irregular, extremely fine grained patches. Epidote forms irregular to subhedral grains and clusters of grains averaging 0.05-0.1 mm in size. Calcite forms anhedral grains and patches averaging 0.03-0.05 mm in grain size. Ti-oxide, in part with tiny cores of ilmenite, forms patches from 0.03-0.09 mm in size.

The rock is cut at a moderate angle to foliation by a discontinuous veinlet of pyrite; textures suggest that the vein formed by replacement rather than fracture-filling. It contains clusters of very fine to fine grains of pyrite, with minor to locally abundant intergrown subhedral grains of epidote of similar or finer size. Pyrite generally is altered to hematite, with translucent red-brown rims surrounding cores of opaque hematite, possibly with relic pyrite cores.

A few patches in the groundmass appear to be fragments of very fine grained, plagioclase-rich rock (andesite?); however, textures are not sufficiently distinct to classify them definitely as rock fragments rather than patches of plagioclase-rich groundmass.

Limonite occurs in wispy seams associated with the groundmass, and is concentrated in irregular patches and one large lens, the latter being up to 1.3 cm long.

The sample contains fragments of plagioclase and quartz averaging 0.1-0.25 mm in size in a groundmass of extremely fine grained plagioclase and sericite, with patches of epidote, calcite, and minor ones of chlorite, opaque, and Ti-oxide.

fragments	
plagioclase	30-35%
quartz	17-20
chert(?)	0.2
groundmass	
plagioclase	17-20
sericite	12-15
calcite	5- 7
epidote	4- 5
chlorite	1- 1½
Ti-oxide	0.5
opaque (pyrite?)	minor
muscovite	trace

Plagioclase forms equant grains averaging 0.1-0.2 mm in size. It is altered slightly to moderately to sericite and locally to epidote and/or calcite.

Quartz forms equant to locally elongate grains averaging 0.1-0.3 mm in size. Extinction varies from nearly uniform to strongly wavy. Several fragments are of very fine to extremely fine grained quartz showing slightly to moderately interlocking grains.

The groundmass is dominated by extremely fine grained plagioclase (0.01-0.02 mm) irregularly intergrown with disseminated and patchy sericite. Sericite probably is secondary after groundmass plagioclase. A few ragged muscovite grains up to 0.1 mm in length probably also are secondary after groundmass plagioclase.

Calcite forms equant to irregular patches averaging 0.05-0.08 mm in size.

Epidote forms patches from 0.02-0.18 mm in size, with grain size ranging from extremely fine up to 0.1 mm. Subhedral prismatic grains from 0.05-0.07 mm are relatively common.

Chlorite forms scattered patches of flakes from 0.1-0.3 mm in length. Locally associated with chlorite are patches of Ti-oxide.

Ti-oxide generally occurs as anhedral patches up to 0.1 mm across of extremely fine grained aggregates.

Opaque forms scattered grains averaging 0.03-0.07 mm in size, with a few up to 0.12 mm across. Some are surrounded by patches of epidote and lesser chlorite.

The sample contains fragments of plagioclase and quartz averaging 0.1-0.25 mm in size in a groundmass of extremely fine grained plagioclase and sericite, with patches of epidote, calcite, and minor ones of chlorite, opaque, and Ti-oxide.

fragments	
plagioclase	30-35%
quartz	17-20
chert(?)	0.2
groundmass	
plagioclase	17-20
sericite	12-15
calcite	5- 7
epidote	4- 5
chlorite	1- 1½
Ti-oxide	0.5
opaque (pyrite?)	minor
muscovite	trace

Plagioclase forms equant grains averaging 0.1-0.2 mm in size. It is altered slightly to moderately to sericite and locally to epidote and/or calcite.

Quartz forms equant to locally elongate grains averaging 0.1-0.3 mm in size. Extinction varies from nearly uniform to strongly wavy. Several fragments are of very fine to extremely fine grained quartz showing slightly to moderately interlocking grains.

The groundmass is dominated by extremely fine grained plagioclase (0.01-0.02 mm) irregularly intergrown with disseminated and patchy sericite. Sericite probably is secondary after groundmass plagioclase. A few ragged muscovite grains up to 0.1 mm in length probably also are secondary after groundmass plagioclase.

Calcite forms equant to irregular patches averaging 0.05-0.08 mm in size.

Epidote forms patches from 0.02-0.18 mm in size, with grain size ranging from extremely fine up to 0.1 mm. Subhedral prismatic grains from 0.05-0.07 mm are relatively common.

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Ti-oxide generally occurs as anhedral patches up to 0.1 mm across of extremely fine grained aggregates.

Opaque forms scattered grains averaging 0.03-0.07 mm in size, with a few up to 0.12 mm across. Some are surrounded by patches of epidote and lesser chlorite.

The sample contains fragments of plagioclase and quartz averaging 0.1-0.25 mm in size in a groundmass of extremely fine grained plagioclase and sericite, with patches of epidote, calcite, and minor ones of chlorite, opaque, and Ti-oxide.

fragments	
plagioclase	30-35%
quartz	17-20
chert(?)	0.2
groundmass	
plagioclase	17-20
sericite	12-15
calcite	5- 7
epidote	4- 5
chlorite	1- 1½
Ti-oxide	0.5
opaque (pyrite?)	minor
muscovite	trace

Plagioclase forms equant grains averaging 0.1-0.2 mm in size. It is altered slightly to moderately to sericite and locally to epidote and/or calcite.

Quartz forms equant to locally elongate grains averaging 0.1-0.3 mm in size. Extinction varies from nearly uniform to strongly wavy. Several fragments are of very fine to extremely fine grained quartz showing slightly to moderately interlocking grains.

The groundmass is dominated by extremely fine grained plagioclase (0.01-0.02 mm) irregularly intergrown with disseminated and patchy sericite. Sericite probably is secondary after groundmass plagioclase. A few ragged muscovite grains up to 0.1 mm in length probably also are secondary after groundmass plagioclase.

Calcite forms equant to irregular patches averaging 0.05-0.08 mm in size.

Epidote forms patches from 0.02-0.18 mm in size, with grain size ranging from extremely fine up to 0.1 mm. Subhedral prismatic grains from 0.05-0.07 mm are relatively common.

Chlorite forms scattered patches of flakes from 0.1-0.3 mm in length. Locally associated with chlorite are patches of Ti-oxide.

Ti-oxide generally occurs as anhedral patches up to 0.1 mm across of extremely fine grained aggregates.

Opaque forms scattered grains averaging 0.03-0.07 mm in size, with a few up to 0.12 mm across. Some are surrounded by patches of epidote and lesser chlorite.

The sample contains fragments of plagioclase and quartz averaging 0.1-0.25 mm in size in a groundmass of extremely fine grained plagioclase and sericite, with patches of epidote, calcite, and minor ones of chlorite, opaque, and Ti-oxide.

fragments	
plagioclase	30-35%
quartz	17-20
chert(?)	0.2
groundmass	
plagioclase	17-20
sericite	12-15
calcite	5- 7
epidote	4- 5
chlorite	1- 1½
Ti-oxide	0.5
opaque (pyrite?)	minor
muscovite	trace

Plagioclase forms equant grains averaging 0.1-0.2 mm in size. It is altered slightly to moderately to sericite and locally to epidote and/or calcite.

Quartz forms equant to locally elongate grains averaging 0.1-0.3 mm in size. Extinction varies from nearly uniform to strongly wavy. Several fragments are of very fine to extremely fine grained quartz showing slightly to moderately interlocking grains.

The groundmass is dominated by extremely fine grained plagioclase (0.01-0.02 mm) irregularly intergrown with disseminated and patchy sericite. Sericite probably is secondary after groundmass plagioclase. A few ragged muscovite grains up to 0.1 mm in length probably also are secondary after groundmass plagioclase.

Calcite forms equant to irregular patches averaging 0.05-0.08 mm in size.

Epidote forms patches from 0.02-0.18 mm in size, with grain size ranging from extremely fine up to 0.1 mm. Subhedral prismatic grains from 0.05-0.07 mm are relatively common.

Chlorite forms scattered patches of flakes from 0.1-0.3 mm in length. Locally associated with chlorite are patches of Ti-oxide.

Ti-oxide generally occurs as anhedral patches up to 0.1 mm across of extremely fine grained aggregates.

Opaque forms scattered grains averaging 0.03-0.07 mm in size, with a few up to 0.12 mm across. Some are surrounded by patches of epidote and lesser chlorite.

The sample contains fragments of plagioclase and quartz averaging 0.1-0.25 mm in size in a groundmass of extremely fine grained plagioclase and sericite, with patches of epidote, calcite, and minor ones of chlorite, opaque, and Ti-oxide.

fragments	
plagioclase	30-35%
quartz	17-20
chert(?)	0.2
groundmass	
plagioclase	17-20
sericite	12-15
calcite	5- 7
epidote	4- 5
chlorite	1- 1½
Ti-oxide	0.5
opaque (pyrite?)	minor
muscovite	trace

Plagioclase forms equant grains averaging 0.1-0.2 mm in size. It is altered slightly to moderately to sericite and locally to epidote and/or calcite.

Quartz forms equant to locally elongate grains averaging 0.1-0.3 mm in size. Extinction varies from nearly uniform to strongly wavy. Several fragments are of very fine to extremely fine grained quartz showing slightly to moderately interlocking grains.

The groundmass is dominated by extremely fine grained plagioclase (0.01-0.02 mm) irregularly intergrown with disseminated and patchy sericite. Sericite probably is secondary after groundmass plagioclase. A few ragged muscovite grains up to 0.1 mm in length probably also are secondary after groundmass plagioclase.

Calcite forms equant to irregular patches averaging 0.05-0.08 mm in size.

Epidote forms patches from 0.02-0.18 mm in size, with grain size ranging from extremely fine up to 0.1 mm. Subhedral prismatic grains from 0.05-0.07 mm are relatively common.

Chlorite forms scattered patches of flakes from 0.1-0.3 mm in length. Locally associated with chlorite are patches of Ti-oxide.

Ti-oxide generally occurs as anhedral patches up to 0.1 mm across of extremely fine grained aggregates.

Opaque forms scattered grains averaging 0.03-0.07 mm in size, with a few up to 0.12 mm across. Some are surrounded by patches of epidote and lesser chlorite.

The rock contains phenocrysts of plagioclase, hornblende, and minor quartz in a very fine grained groundmass dominated by plagioclase with lesser actinolite, epidote, biotite, magnetite, Ti-oxide, and quartz. It is cut by a vein up to 1 mm wide of quartz-epidote-(actinolite) with a halo up to a few mm wide containing abundant epidote, and further from the vein epidote-chlorite.

phenocrysts		vein	
plagioclase	15-17%	quartz	2- 3%
hornblende	4- 5	epidote	2- 3
quartz	1- 1½	actinolite	0.3
apatite	0.2	apatite	0.1
opaque	0.5	halo	
groundmass		epidote	2- 3
plagioclase	40-45	chlorite	0.3
actinolite	7- 8		
epidote	7- 8		
biotite	2- 3		
magnetite	2- 3		
Ti-oxide	1½-2		
quartz	½- 1		
calcite	minor		
apatite	0.1		

Plagioclase forms subhedral to euhedral phenocrysts from 1 to 3 mm in average size. Many are strongly compositionally zoned towards more sodic rims, with compositions in the andesine range. Alteration is mainly concentrated in a thin zone near the border of the crystals, where plagioclase is strongly altered to extremely fine grained, disseminated epidote. A few grains are altered to patches of sericite in their cores, and one grain contains a patch of chlorite 0.1 mm long.

Hornblende forms prismatic phenocrysts up to 2.5 mm in length. It is altered completely to very fine grained aggregates of epidote, quartz, actinolite, biotite, and opaque (magnetite?).

Quartz forms one phenocryst 2 mm across, with very irregularly embayed borders against the groundmass.

Apatite forms one prismatic grain 0.5 mm long within a plagioclase phenocryst, and several other prismatic grains 0.1 mm in length.

Opaque is concentrated in a few patches up to 0.8 mm in size; these contain several equant, anhedral grains from 0.1-0.3 mm in size. It is uncertain if this is magnetite or not.

Plagioclase in the groundmass forms prismatic grains from 0.05-0.2 mm in size, and anhedral grains from 0.01-0.03 mm in size interstitial to the prismatic grains.

Actinolite forms ragged prismatic grains from 0.05-0.2 mm in size. and a few coarser grains gradational upwards to the hornblende phenocrysts. Actinolite is light green in color.

Epidote forms extremely fine grained aggregates throughout the groundmass, and becoming more abundant within a few mm of the vein.

Biotite forms anhedral, equant flakes averaging 0.02-0.05 mm in size, and is moderately concentrated in patches. It is pleochroic from light to medium greenish brown.

Magnetite forms disseminated, subhedral to euhedral grains averaging 0.02-0.04 mm in size.

Ti-oxide forms extremely fine grained patches up to 0.05 mm across, largely associated with epidote.

(continued)

Quartz occurs in one part of the section as interstitial grains and patches up to 0.1 mm in size. Associated with quartz is lesser calcite of similar size.

Apatite forms prismatic grains from 0.03-0.1 mm in length; these grade upwards in size to the finer grained apatite described under "phenocrysts".

The vein contains a core of fine to very fine grained quartz with wavy extinction and slightly sutured grain borders. Locally are patches of epidote in the core. Epidote is more abundant along the borders of the vein as subhedral to euhedral grains up to 0.2 mm in size. This grades outwards into an epidote-rich halo, which in turn grades outwards into a zone with abundant epidote and moderately abundant patches of very fine grained chlorite. Actinolite occurs in the vein as fibrous to prismatic aggregates growing into the quartz core of the vein from the epidote-rich zone; these are up to 0.3 mm in length. Some epidote grains show similar relations, i.e., growing outwards from the walls of the vein into the quartz core.

Most of the section is a porphyritic andesite flow with abundant plagioclase phenocrysts, lesser hornblende phenocrysts and minor ones of quartz and apatite. The groundmass is very fine grained and dominated by plagioclase with much less chlorite, biotite, and patches of quartz. Towards the tuff contact, plagioclase in the groundmass is increasingly altered to epidote. The tuff contains crystals of plagioclase and minor ones of hornblende, apatite, and quartz in a groundmass dominated by sericite, plagioclase, and lesser biotite.

andesite flow

phenocrysts		veinlets	
plagioclase	25-30%	quartz-chlorite	0.5%
hornblende	5- 7		
quartz	0.1		
apatite	0.1		
zircon	one grain		
groundmass			
plagioclase	45-50 (includes epidote)		
chlorite	8-10		
biotite	3- 4		
quartz	1½-2		
opaque/Ti-oxide	1- 1½		
apatite	minor		

Plagioclase forms subhedral to euhedral phenocrysts ranging from 0.3-3 mm in size. Some are composite, and many larger ones show fine, concentric, oscillatory growth zones. Composition is about An₄₀. Alteration is variable, being mainly slight to disseminated sericite, with local concentrations of quartz and biotite, and of calcite. A few phenocrysts are cut by veinlets up to 0.1 mm in width of very fine grained quartz and/or chlorite.

Hornblende forms equant, subhedral phenocrysts averaging 0.3-0.7 mm in size, and a few elongate prismatic grains up to 2.5 mm long. Alteration is complete to very fine grained biotite with lesser intergrown opaque/Ti-oxide, and patches of extremely fine grained epidote. A few hornblende(?) phenocrysts are altered to aggregates of quartz with lesser biotite, apatite, and opaque, with the mafic minerals generally concentrated towards the border of the patch.

Quartz forms subrounded to irregular phenocrysts from 0.1-0.3 mm in size.

Apatite forms a few prismatic phenocrysts up to 0.35 mm long; they are colored pale brown from dusty inclusions.

Zircon forms one anhedral prismatic grain 0.2 mm long.

The groundmass is dominated by anhedral equant to slightly prismatic plagioclase grains averaging 0.03-0.05 mm in grain size, with extremely fine grained, disseminated flakes of chlorite and lesser biotite. Mafic minerals commonly are concentrated in irregular patches with Ti-oxide/opaque. Towards the tuff contact, plagioclase is increasingly altered to extremely fine grained epidote, such that near the contact, epidote forms most of the groundmass. Chlorite forms a few lenses up to 0.2 mm in length. Opaque/Ti-oxide forms scattered patches up to 0.6 mm in size. Quartz is concentrated in interstitial patches up to 0.4 mm in size in which it forms very fine grained, slightly interlocking aggregates. Apatite forms minor equant grains from 0.02-0.05 mm in size.

(continued)

tuff

fragments	
plagioclase	20-25%
hornblende	2- 3
opaque/Ti-oxide	1- 1½
quartz	minor
apatite	minor
groundmass	
sericite	30-35
plagioclase	17-20
chlorite	7-10
biotite	7-10
opaque/Ti-oxide	1- 1½

Plagioclase forms crystal fragments from 0.2-1 mm in average size. Alteration is slight to moderate to sericite and locally to secondary plagioclase. Some grains are altered along fractures to sericite.

Hornblende forms crystals up to 1 mm in size. They are altered completely to intergrowths of very fine grained biotite and chlorite, with moderately abundant, finer grained opaque/Ti-oxide.

Opaque/Ti-oxide forms a few fragments up to 0.3 mm in size.

Quartz forms one rounded grain 0.2 mm across, and apatite forms one fractured, anhedral prismatic grain 0.4 mm long; fractures are partly filled by chlorite.

The groundmass contains patches dominated by extremely fine grained plagioclase with lesser chlorite and biotite. These are enclosed in and grade into a well foliated aggregate of very fine grained sericite, with lenses and streaks dominated by biotite with lesser opaque/Ti-oxide.

The rock contains phenocrysts of plagioclase and lesser hornblende in a groundmass dominated by plagioclase with lesser quartz (in patches), and minor epidote, calcite, opaque, and chlorite. It contains wispy veinlets of epidote.

phenocrysts	
plagioclase	17-20%
hornblende	4- 5
groundmass	
plagioclase	55-60
quartz	8-10
epidote	3- 4
calcite	1½-2
chlorite	1- 1½
opaque	1- 1½
apatite	trace
veinlets	
epidote	trace

Plagioclase forms prismatic to equant phenocrysts from 0.2-0.9 mm in average size, with a few up to 2 mm across. Alteration is slight to moderate, mainly to sericite, with locally abundant epidote and calcite. A few large grains are altered moderately to sericite-calcite.

Hornblende forms subhedral to euhedral phenocrysts averaging 0.2-0.5 mm in size, with a few up to 1.2 mm long. Hornblende is altered completely to a variety of intergrowths of two or more of calcite, epidote, chlorite, opaque, and quartz. Opaque is concentrated in extremely fine disseminated grains in a thin rim along the border of the parent hornblende grain. Calcite and chlorite are the most abundant alteration minerals.

The groundmass is dominated by extremely fine grained (0.01-0.03 mm) plagioclase in unoriented, anhedral grains with slightly interlocking borders.

Quartz occurs in patches up to 1.8 mm in size as very fine grained aggregates (0.03-0.1 mm). Intergrown with quartz are minor to locally moderately abundant, extremely fine grains and aggregates of epidote and calcite. Borders of patches are irregular against groundmass plagioclase, suggesting that quartz is a late magmatic mineral.

Epidote forms extremely fine grained disseminations and patches, and scattered very fine to fine grained patches up to 0.2 mm across.

Calcite forms irregular, very fine grained patches, largely associated with quartz.

Chlorite is concentrated moderately in patches along borders of hornblende grains, and also forms disseminated, extremely fine grains in the groundmass.

Opaque forms scattered equant grains from 0.05-0.15 mm in average size, and occurs in extremely fine grained concentrations with epidote.

Apatite forms a very few equant, subhedral to euhedral grains up to 0.05 mm in size, mainly associated with hornblende phenocrysts.

The rock is cut by wispy veinlets averaging 0.01 mm in width of extremely fine grained epidote. Veinlets are discontinuous over lengths of 1 mm.

The rock contains phenocrysts of plagioclase and lesser hornblende in a very fine grained groundmass dominated by plagioclase with much less chlorite and with patches of calcite and of quartz. Alteration of plagioclase is moderate to calcite, and of hornblende is complete to calcite-chlorite-(Ti-oxide).

phenocrysts		
plagioclase	20-25%	
hornblende	4- 5	
groundmass		
plagioclase	50-55	
chlorite	8-10	
calcite	5- 7	
quartz	3- 4	
Ti-oxide	1½-2	
sphene	0.3	
apatite	minor	
opaque	0.5	(pyrite and possibly chalcopyrite)
sphalerite	trace	

Plagioclase forms clusters up to 2 mm across of anhedral to subhedral phenocrysts and single prismatic phenocrysts averaging 0.5-1.2 mm in length. Alteration is moderate to irregular, fine grained patches of calcite and to dusty epidote(?). Calcite abundance varies widely from minor in some phenocrysts to over 50% in others.

Hornblende forms subhedral to euhedral phenocrysts averaging 0.3-1 mm in size, with a few elongate prismatic grains up to 2 mm long. Alteration is complete to patches of fine to very fine grained calcite, patches of extremely fine to very fine grained chlorite, and much less Ti-oxide/sphene in dusty to very fine grained patches. Epidote forms a ragged, very fine grained patch in one altered phenocryst.

The groundmass is dominated by anhedral to prismatic plagioclase averaging 0.03-0.08 mm in size, with scattered anhedral to subhedral grains from 0.08-0.15 mm. Alteration of larger grains is similar to that of phenocrysts.

Chlorite forms disseminated flakes averaging 0.01-0.02 mm in size, and is concentrated in irregular patches of grains up to 0.05 mm in size.

Calcite forms irregular, replacement patches of very fine to fine grain size; these are similar in texture to patches of calcite replacing plagioclase phenocrysts.

Quartz forms irregular patches up to 0.7 mm in size, slightly intergrown along their borders with groundmass plagioclase, and probably of late magmatic origin. Patches consist of very fine grained aggregates, commonly with slightly to moderately strained extinction.

Ti-oxide and sphene occur in irregular patches up to 0.1 mm in size. Sphene forms equant, rounded grains up to 0.05 mm across, and Ti-oxide forms extremely fine grained aggregates.

Apatite forms a few euhedral prismatic grains with cross sections up to 0.06 mm across, and prismatic to acicular grains up to 0.06 mm long.

Opaque forms irregular to subhedral patches from 0.05-0.25 mm in size. Some probably are of pyrite. One large patch of anhedral outline may also contain chalcopyrite; it contains two grains 0.03 mm in size of orange-brown sphalerite (very high relief, isotropic). Some pyrite is altered to translucent hematite, and it may be that much of the pyrite and chalcopyrite(?) may be altered to opaque hematite.

The rock contains fragments of plagioclase and lesser quartz of very fine to locally fine grain size in a groundmass dominated by sericite with lesser epidote, chlorite, and calcite. Calcite is concentrated towards one side of the section. Limonite forms late veinlets along and near weathered surfaces.

fragments	
plagioclase	40-45%
quartz	10-12
groundmass	
sericite	25-30
epidote	4- 5
chlorite	4- 5
calcite	4- 5
opaque	1- 1½
Ti-oxide	½- 1
apatite	minor
zircon	trace
limonite	0.1

Plagioclase forms equant fragments averaging 0.05-0.1 mm in size, with a few up to 0.2 mm across and one 0.3 mm across. Alteration is slight to moderate to sericite and to calcite (in the calcite-rich part of the section).

Quartz forms equant grains and aggregates of a few grains from 0.05-0.15 mm in average size. Many grains are subangular to angular.

The fragments are contained in an extremely fine grained groundmass dominated by sericite. Sericite may be secondary after primary groundmass plagioclase. Epidote forms subhedral grains (possibly porphyroblasts) averaging 0.05-0.1 mm in length. Chlorite forms aggregates of extremely fine grained flakes in patches up to 0.1 mm in size and disseminated in sericite.

Calcite is concentrated in part of the section where it forms abundant disseminated groundmass grains and patches, and a few coarser grained patches up to 0.15 mm in size.

Opaque and Ti-oxide form disseminated equant grains and irregular patches up to 0.1 mm in size.

Apatite forms subhedral grains up to 0.05 mm across.

Zircon forms a very few subhedral grains up to 0.05 mm long.

Opaque is moderately concentrated in a veinlike zone running through the center of the section; there it forms disseminated grains from 0.02-0.05 mm in size intergrown with silicates.

Limonite occurs in patches and wispy veinlets near the weathered borders of the rock; it replaces some opaque patches disseminated in the rock.

The section contains a large fragment of porphyritic andesite and smaller fragments of andesite, plagioclase, and quartz grains in a groundmass dominated by sericite and plagioclase.

large fragment

phenocrysts	
plagioclase	30-35%
quartz	minor
apatite	minor
groundmass	
plagioclase	40-45
chlorite	4- 5
Ti-oxide	1- 1½
opaque	0.3
apatite	minor
replacement patches	
calcite	17-20

Plagioclase forms subhedral to euhedral phenocrysts and clusters of phenocrysts from 0.3-1.5 mm in size. Alteration is slight to locally moderate to flakes of sericite, and slight to strong to patches of calcite. Some calcite patches are secondary after prismatic phenocrysts either of plagioclase or of hornblende.

Quartz forms a very fine subrounded grains 0.2 mm across.

Apatite forms a few prismatic grains from 0.1-0.3 mm long.

The groundmass is dominated by equant to prismatic plagioclase grains averaging 0.02-0.04 mm in size, and ranging up to 0.15 mm in length. Chlorite forms extremely fine, disseminated grains. Ti-oxide forms ragged, disseminated patches up to 0.03 mm in size. Opaque forms disseminated grains up to 0.1 mm across. Apatite forms minor prismatic to equant grains from 0.03-0.05 mm in size.

The rock is replaced in irregular patches by very fine to coarse grained calcite. Coarse grained calcite commonly shows broadly wavy extinction. A vein up to 0.5 mm wide consists of fine grained calcite.

Locally on the border of plagioclase phenocrysts, quartz and chlorite form parallel aggregates of grains growing outwards from the phenocryst crystal face; these are up to 0.08 mm long.

rest of the rock

fragments			
andesite	8-10%	pyrite(?) - quartz	2- 3%
plagioclase	20-25		
quartz	5- 7		
dacite	7- 8		
groundmass			
sericite-plagioclase			
calcite	4- 5		
epidote	1- 1½		
Ti-oxide	1- 1½		
opaque	2- 3		
zircon	trace		

A fragment up to a few mm long is very similar to the large fragment of andesite. Another fragment 2 mm across contains fine grained plagioclase in a very fine grained groundmass dominated by plagioclase and

chlorite, with lesser Ti-oxide, quartz, and calcite. Smaller andesite fragments are typified by lathy plagioclase aggregates in the groundmass, intergrown with variable amounts of chlorite, Ti-oxide, opaque, and with minor replacement patches of calcite. Some of these also contain plagioclase phenocrysts up to 0.5 mm in size.

Dacite fragments contain plagioclase phenocrysts up to 0.6 mm in size in an extremely fine to very fine grained groundmass dominated by equant plagioclase.

The pyrite(?) - quartz fragment is 2 mm long, and dominated by a very fine grained aggregate of subhedral pyrite, with interstitial patches of quartz of similar grain size. Quartz grains are oriented perpendicular to crystal faces of pyrite.

Plagioclase fragments are from 0.1-0.5 mm in average size, with a few up to 1 mm long. Alteration is slight to sericite and locally prominent calcite.

Quartz forms fragments averaging 0.1-0.25 mm in size, with a few up to 0.9 mm across.

The groundmass is dominated by a moderately foliated, extremely fine grained aggregate of plagioclase, partly altered to sericite. Foliation is defined by parallel orientation of sericite flakes. Calcite forms a few large replacement patches, with textures similar to some of those in the large fragment. Minor quartz is intergrown with calcite.

Epidote and Ti-oxide occur in extremely fine grained patches.

Opaque and lesser Ti-oxide form larger patches and lenses up to 1 mm in size (averaging 0.2-0.3 mm long); many are elongated parallel to foliation.

Zircon forms a very few anhedral grains up to 0.15 mm in size.

The rock contains fragments of plagioclase and quartz grains, and minor ones of andesite, and patches of chlorite, calcite, and opaque in an extremely fine grained groundmass of plagioclase and lesser sericite. Carbonaceous opaque is concentrated in seams and patches in the groundmass.

fragments	
plagioclase	30-35%
quartz	10-12
andesite	0.3
muscovite	trace
patches	
chlorite	3- 4
calcite	3- 4
opaque	1½-2
groundmass	
plagioclase	35-40
sericite	5- 7
carbonaceous opaque	3- 4

Plagioclase forms equant fragments averaging 0.03-0.07 mm in size with a moderate number from 0.1-0.4 mm across. Larger grains commonly are altered slightly to sericite, and one is replaced by a large patch of calcite. Other grains are fresh to slightly altered to sericite.

Quartz forms equant to elongate grains from 0.05-0.08 mm in average size, with a few up to 0.3 mm across. A few fragments are of recrystallized quartz with irregular grain borders and very fine grain size.

Andesite forms a few fragments up to 0.4 mm in size. They contain plagioclase phenocrysts up to 0.4 mm long in a groundmass of extremely fine grained, equant plagioclase. Some fragments contain no phenocrysts.

Chlorite forms equant patches averaging 0.05-0.1 mm in size.

Calcite forms irregular to subrounded patches averaging 0.03-0.15 mm in size; these may be secondary in origin, formed by replacement of plagioclase.

Opaque forms aggregates of grains from 0.03-0.1 mm in size.

The groundmass is dominated by equant plagioclase grains averaging 0.01-0.02 mm in size. Sericite forms disseminated flakes and patches of extremely fine grain size. Carbonaceous opaque is concentrated in wispy seams in the groundmass. These seams are concentrated in broader zones up to 1 mm wide, some of which run parallel to the length of the seams, and some of which are at a moderate to high angle to the length of individual seams.

The rock is a slightly porphyritic diabase dominated by plagioclase with lesser clinopyroxene and Mineral X, and minor opaque (magnetite-ilmenite). An inclusion a few mm across is dominated by plagioclase with inclusions of opaque, spinel(?) and epidote.

phenocrysts		inclusion	
plagioclase	5- 7%	plagioclase	3- 4
clinopyroxene	0.3	opaque	0.3
groundmass		epidote	0.3
plagioclase	65-70	spinel	0.1
clinopyroxene	10-12	carbonate	minor
Mineral X	7- 8	sericite	minor
opaque	2- 2½		
quartz	0.3		
calcite	0.2		
chlorite	0.1		
apatite	minor		

Plagioclase forms a few subhedral prismatic phenocrysts up to 2.5 mm in size. Many contain irregular alteration patches of secondary plagioclase associated with lesser sericite and/or chlorite. In a few, plagioclase appears to have been recrystallized to very fine grained aggregates of equant grains. Plagioclase forms slightly intergrown prismatic grains from 0.3-0.8 mm in average length, with lesser interstitial anhedral plagioclase averaging 0.1-0.3 mm in grain size, and a few patches up to 0.7 mm across of aggregates of equant grains averaging 0.02-0.03 mm in grain size. Grains are moderately zoned, with composition in those of intermediate size ranging from cores of An₅₂ to rims of An₄₂. Alteration is slight to sericite with minor chlorite and opaque.

Clinopyroxene forms a few phenocrysts up to 1.3 mm long, equant to prismatic grains averaging 0.2-0.6 mm in size, and one patch 1.3 mm long of granular grains averaging 0.02-0.04 mm in size. Alteration is minor to sericite and chlorite.

Mineral X forms equant grains averaging 0.2-0.5 mm in size. It is altered completely to extremely fine grained aggregates of red-brown biotite/hematite with minor chlorite on borders of some patches. The original grains may have been pyroxene or hornblende.

Opaque forms anhedral patches from 0.05-0.2 mm in size. It probably is an intergrowth of magnetite and ilmenite.

Quartz forms scattered interstitial grains and patches from 0.1-0.3 mm in size. Calcite forms ragged patches from 0.05-0.15 mm in size. Chlorite forms a few patches up to 0.1 mm across. Apatite forms acicular grains up to 0.3 mm long, mainly in plagioclase.

The inclusion is dominated by moderately interlocking, prismatic grains of plagioclase from 0.2-0.7 mm in size. It contains abundant irregular opaque inclusions up to 0.15 mm in size, disseminated medium to dark green spinel(?) (isotropic) averaging 0.03-0.05 mm in size, and very abundant patches of extremely fine grained epidote, probably a replacement of plagioclase. Carbonate and sericite each form irregular patches up to 0.2 mm in size.

APPENDIX 7 : DRILL HOLE SECTIONS AND DRILL LOGS

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-3-80

Page 1

Hole Location : 48903.73E 52413.35N

Claim No. :

NTS : 923/03 UTM : 492927E,5552921N
 Azimuth : 44 09' Elevation : 3558.4 feet (1084.61M)
 Dip : -33 22' Length : 801 feet (244.1M)

Logged By : S. Clewmer
 Drilling Co. :
 Assayed By :
 Core Size : 8Q

Started :
 Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
0.00	8.00	CASING					
8.00	115.00	FELDSPAR CRYSTAL TUFF AND LAPILLI TUFF -grey to green weakly epidotized medium grained, 15% <1 to 1mm plagioclase crystals in a fine grained chloritic matrix; some <1 to 4cm feldspar tuff fragments, where visible, 30% of rock, interval may include crystal tuff sections 35.00 - 47.00 - mafic dyke 92.00 - 96.00 - lost core, 25cm gouge	AF1125	84.0	84.5	0.5	-whole rock
115.00	235.00	FELDSPAR CRYSTAL TUFF AND LAPILLI TUFF -grey, medium - grained, 25% <1 to 1mm plagioclase crystals in a fine grained chloritic matrix -fragment 0 to 30%, <1 to 3cm, locally coarse grained crystal tuff, interval may include tuff layers -lost 8' of core weakly sheared	AF1126	180.0	180.5	0.5	-whole rock
235.00	282.00	PYRITIC - SHEARED FELDSPAR CRYSTAL TUFF -light grey, sheared, 1 to 3% disseminated pyrite rock looks bleached and clay altered 260.00 - 282.00-rock less altered but still bleached, less sheared, with 2% disseminated pyrite	AF1127 AF1128	235.0 260.0	260.0 281.0	25.0 21.0	-geochem -geochem
282.00	372.00	FELDSPAR CRYSTAL LAPILLI TUFF -grey to grey - green, 25% <1 to 4cm fragment, of fine to medium grained feldspar crystal tuff in fine grained feldspar crystal matrix 289.00 -10cm gouge 291.00 -20cm gouge 345.00 - 372.00-moderate epidotization	AF1129	342.0	342.5	0.5	-whole rock
372.00	377.00	MAFIC DYKE					

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-2-B0 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
		veins, medium grained <1 to 1mm plagioclase crystals in a fine grained dark matrix					
	135.00 - 136.00	quartz - pink carbonate vein 3% pyrite - galena - sphalerite					
	145.00 - 146.50	quartz - pink carbonate vein 3% pyrite - galena - sphalerite					
	156.00 - 156.50	quartz - pink carbonate vein 3% pyrite - galena - sphalerite					
	159.00 - 159.50	quartz - pink carbonate vein 3% pyrite - galena - sphalerite					
160.00 - 163.00		MAFIC DYKE					
163.00 - 1139.00		FELDSPAR CRYSTAL LAPILLI TUFF AND TUFF					
		-weakly to moderately epidotized, light green, 20 to 40% 1 to 4cm, medium grained feldspar crystal tuff fragments, in a fine grained feldspar crystal tuff matrix	AF1095	169.0	169.5	0.5	-whole rock
			AF1096	280.0	280.5	0.5	-whole rock
			AF1097	446.0	446.5	0.5	-whole rock
		163.00 - 181.00-rock still dark gray and similar to 25 - 76 interval	AF1098	864.0	864.5	0.5	-whole rock
		181.00 - 202.00-25% 2mm - 3cm, medium grained feldspar crystal tuff fragments in a fine grained crystal tuff matrix, moderately epidotized					
		202.00 - 203.00-mafic dyke					
		203.00 - 333.00-green, moderate epidotization, 40% <1 to 4cm, medium grained crystal tuff fragments					
		255.00 - 256.00-quartz vein, core broken fault?					
		333.00 - 337.00-brown iron carbonate altered, core light brown, 6' above zone core has 5% 1 to 6mm carbonate vein-like altered areas, also 3' below					
		414.00 - 417.00-core iron carbonate altered					
		438.00 - 459.00-intensely iron carbonate altered zone, core bleached brown to light brown					
		507.00 - 512.00-iron - carbonate alteration, 2cm gouge and shearing					
		520.00 - 527.00-iron carbonate altered					
		608.00 - 612.00-bull quartz vein, zone breccia					
		640.00 - 645.50-quartz vein "bull"					
		742.00 - 745.00-mafic dyke					
		745.00 - 759.00-core sheared					
		759.00 - 761.00-mafic dyke					
		761.00 - 804.00-core well foliated					
		804.00 - 807.00-mafic dyke					
		807.00 - 823.00-core well foliated					
		886.00 - 993.00-mafic dyke.					

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-4-80

Page 1

Hole Location : 50163.56E 50381.80N

Claim No. :

NTS : 923/03 UTM : 493308E,5552301N
 Azimuth : 44 37' Elevation : 3813.9 feet (1162.49M)
 Dip : -32 38' Length : 926 feet (282.2M)

Logged By : S. Clemmer
 Drilling Co. :
 Assayed By :
 Core Size : 80

Started :

Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
0.00	88.00	BOXES 1 - 3 MISSING					
88.00	357.00	FELDSPAR CRYSTAL LAPILLI TUFF					
		-grey-green massive weakly foliated, 40%, 3 to 30mm, locally 3 to 8cm fragments, fragments fine grained dark grey-green feldspar crystal tuff, larger fragments often medium grained feldspar crystal tuff, fragments stretched but look angular	AF1143	104.0	104.5	0.5	-whole rock
			AF1144	216.0	216.5	0.5	-whole rock
		98.00 - 110.00-lapilli tuff here looks darker grey, lapilli fragments often contain 10% <1 to 2mm stretched areas of black material biotitic?					
		104.00 - 110.00-5% 3 to 8cm pyrite cubes					
		138.00 - 139.00-weak shear, 2% 1mm hematitic veinlet in shears cleavage					
		166.00 -weak shear 10cm gouge					
		194.00 - 195.00-shear, minor gouge					
		236.00 - 237.00-core broken minor gouge					
357.00	376.00	MAFIC TUFF AND LAPILLI TUFF					
		-grey-green, <1 to 1mm tuffaceous debris in a fine grained light green matrix, locally <1 to 3cm, medium grained feldspar crystal tuff fragments					
		-upper contact sharp, lower contact uncertain may be gradational					
376.00	464.00	FELDSPAR CRYSTAL LAPILLI TUFF					
		-grey, 60 to 70%, 3 to 20mm, (fragments do not show usual extreme size variation) of fine to medium grained feldspar crystal tuff in a fine grained matrix	AF1145	389.0	389.5	0.5	-whole rock
		411.50 - 412.50-core broken, shearing					
		431.00 - 434.50-core light brown iron carbonate altered minor shearing					

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-3-80 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
377.00	396.00	<p>PYRITIC FELDSPAR CRYSTAL TUFF</p> <p>-light grey, moderately bleached, 3% pyrite disseminated, medium to coarse grained 20% (1 to 1mm) plagioclase crystals in a fine grained matrix, core broken, rock sheared</p>	AF1130	377.0	396.0	19.0	-geochem
396.00	801.00	<p>FELDSPAR CRYSTAL LAPILLI TUFF</p> <p>-box 32 missing</p> <p>-light grey - green to green medium to coarse grained 30% (1 to 3cm, fine to coarse grained feldspar crystal tuff fragments in a fine to medium grained feldspar crystal tuff matrix</p> <p>427.00 -3cm gouge</p> <p>417.00 - 467.00-core broken weakly sheared</p> <p>487.00 - 493.00-core broken weakly sheared</p> <p>556.00 - 787.00-core weak to moderately epidotized and darker green</p> <p>742.00 - 748.00-mafic dyke</p>	AF1131 AF1132	472.0 639.0	472.5 639.5	0.5 0.5	-whole rock -whole rock

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-4-80 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
464.00	472.00	IRON - CARBONATE ALTERED FAULT ZONE -light brown iron carbonate altered feldspar crystal lapilli tuff 469.00 - 470.00-core broken 4cm quartz cemented breccia					
472.00	650.00	FELDSPAR CRYSTAL TUFF AND LAPILLI TUFF -light grey to grey-green, fine to medium grained 5 to 20%, 3 to 30mm feldspar crystal tuff fragments in a fine grained feldspar crystal tuff matrix 485.00 - 486.00-core broken, rusty, sheared 492.00 - 492.60-sheared, 5cm gouge 498.00 - 505.00-mafic dyke 505.00 - 505.50-gouge 508.00 - 510.00-core broken local 1cm gouge 546.00 - 555.00-iron carbonate altered fault zone, -547.00, 1' of very altered material, rusty white 606.00 - 628.00-fault zone core lighter grey-green and weakly brecciated, 609.00 - 610.00-quartz vein 613.00 - 614.00-quartz vein and breccia 615.00 -hematite in quartz vein 616.00 - 620.00-core quartz veined and gouged 626.00 - 628.00-core gouged and some quartz 628.00 - 650.00-weak epidotization of feldspar crystal tuff	AF1146	631.0	631.5	0.5	-whole rock
650.00	926.00	FELDSPAR CRYSTAL LAPILLI TUFF -grey-green, weak to moderate epidotization, 30 to 50%, <1 to 3cm, fragments fine to coarse grained feldspar crystal tuff (occasionally 3 to 10cm fragment of coarse grained feldspar crystal tuff) in a fine grained matrix 671.00 - 686.00-fault zone 671.00 - 672.00-core broken and some breccia 672.00 - 675.00-mafic dyke 675.00 - 686.00-core weakly breccia light coloured 686.00 - 715.00-grey feldspar crystal lapilli tuff, distinct looking 20 to 40%, <1 to 3cm dark grey coarse grained feldspar crystal tuff fragments in a fine grained matrix 715.00 - 722.00-core well foliated, weak to moderate iron carbonate alteration 722.00 - 950.00-core moderately epidotized 889.00 - 992.00-mafic dyke	AF1147	819.0	819.5	0.5	-whole rock

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-5-80

Page 1

Hole Location : 49985.80E 51006.62N

Claim No. :

NTS : 92J/03 UTM : 493254E,5552492N
 Azimuth : 46 29' Elevation : 3842.8 feet (1171.28M)
 Dip : -35 55' Length : 915 feet (278.9M)

Logged By : S. Cleaver
 Drilling Co. :
 Assayed By :
 Core Size : BQ

Started :

Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
0.00	16.00	CASING					
16.00	36.00	OVERBURDEN					
36.00	259.00	FELDSPAR CRYSTAL LAPILLI TUFF -grey-green locally grey, foliated, 20 to 40%, 3 to 20mm, angular fragments of fine grained locally coarse grained feldspar crystal tuff in a fine grained matrix, some zones the fragments are very stretched	AF1148	87.0	87.5	0.5	-whole rock
259.00	281.00	IRON CARBONATE ALTERED -core light brown, pervasively altered	AF1149	259.0	281.0	22.0	-geochem
281.00	306.00	FELDSPAR CRYSTAL LAPILLI TUFF -same as 36.00 259.00					
306.00	316.00	FAULT ZONE 306.00 - 308.00-gougey iron - carbonate altered 308.00 - 316.00-core broken, sheared local gouge					
316.00	365.00	FELDSPAR CRYSTAL LAPILLI TUFF -same as 36.00 259.00					
365.00	373.00	FAULT -iron - carbonate altered, light brown, sheared					
373.00	385.00	FELDSPAR CRYSTAL LAPILLI TUFF	AF1150	375.0	375.5	0.5	-whole rock
385.00	492.00	IRON - CARBONATE ALTERED FELDSPAR CRYSTAL LAPILLI TUFF -weakly to strongly altered, grey to light brown lapilli tuff 430.00 - 435.00-light brown very strong iron - carbonate alteration					

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-5-80 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
		435.00 - 444.00-core light grey bleached 441.00 -20cm gouge					
492.00	560.00	FELDSPAR CRYSTAL LAPILLI TUFF -grey-green, 40% 3 to 20mm, fine to medium grained angular stretched, feldspar crystal lapilli tuff fragments in a fine grained matrix	AF1151	543.0	543.5	0.5	-whole rock
560.00	572.00	IRON - CARBONATE ALTERED FAULT -light brown, pervasively altered, local shearing and minor gouge					
577.00	600.00	FELDSPAR CRYSTAL TUFF -grey-grey, medium grained, 5% 3 to 10mm fragments in a medium grained matrix					
600.00	663.00	FELDSPAR CRYSTAL LAPILLI TUFF -grey-green, 40 to 60%, 3 to 40mm, angular, fragments, light green-grey to green, fine grained to medium grained feldspar crystal tuff in a fine grained matrix 620.00 - 621.00-gouge					
663.00	670.00	IRON CARBONATE ALTERED -core light brown, pervasively altered.					
670.00	915.00	FELDSPAR CRYSTAL LAPILLI TUFF -grey-green to green weakly to moderately epidotized, 10 to 30% (1 to 3cm fragments of fine to coarse grained feldspar crystal tuff in a fine grained matrix 720.00 - 732.00-fault 720.00 - 722.00-core broken 722.00 - 730.00-mafic dyke 730.00 - 732.00-core broken 819.00 - 820.00-mafic dyke 858.00 - 863.00-mafic dyke 863.00 - 915.00-moderate epidotization	AF1152	783.0	783.5	0.5	-whole rock

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-6-80

Page 1

Hole Location : 51504.98E 51946.76N

Claim No. :

NTS : 92J/03 UTM : 493717E,5552779N
 Azimuth : 69 29' Elevation : 4387.9 feet (1337.44M)
 Dip : -28 41' Length : 200 feet (61.0M)

Logged By : S. Clemer
 Drilling Co. :
 Assayed By :
 Core Size : 80

Started :

Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)
0.00	4.00	OVERBURDEN				
4.00	15.00	SILICIFIED ZONE -white light green rusty, brecciated, very hard cherty rock, breccia is competent and fragment are 1 to 3cm interlocking -core broken				
15.00	18.00	MAFIC DYKE				
18.00	22.00	SILICIFIED ZONE -similar to 4.00 - 15.00, light green with 1% disseminated pyrite				
22.00	32.00	-light green competent, feldspar - quartz - matrix volcanic wacke, medium grained -grades into silty argillite below				
32.00	106.00	SILTY ARGILLITE -grey to dark grey banded argillite and siltstone layers, locally rusty 89.00 - 106.00-rock becomes lighter colour and contains 30% (1cm lithic fragments and appears to grade into unit below				
106.00	123.00	VOLCANIC WACKE -weakly sheared, light green, fine grained feldspar - quartz? - matrix (50 - 30 - 40) gritty rock -fault contact with unit below				
123.00	127.00	FAULT ZONE -gouge, core broken, rusty				
127.00	144.00	SILICIFIED ZONE				

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NDRTHAIR OPTION

HOLE No. : S-6-80 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)
		-weakly brecciated, waxy - looking white to light green, cherty rock -contact sharp with unit below possibly shear contact				
144.00	200.00	EPIDOTIZED VOLCANIC TUFF -massive, dark - green rock, 25% <1 to 2mm epidotized, feldspar grains in a dark green chloritic matrix 144.00 - 152.00-zone lighter, possibly weakly silicified 181.00 - 182.00-minor pyrite and cpy in epidotized fractures 185.00 - 186.00-minor pyrite and cpv in epidotized fractures				

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-7-80

Page 1

Hole Location : 51498.90E 51944.30N

Claim No. :

NTS : 923/03 UTM : 493715E,5552778N
 Azimuth : 73 50' Elevation : 4389.2 feet (1337.28M)
 Dip : -51 35' Length : 312 feet (95.1M)

Logged By : S. Clemmer
 Drilling Co. :
 Assayed By :
 Core Size : BQ

Started :
 Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)
0.00	9.00	CASING				
9.00	18.00	BLACK PHYLLITIC ARGILLITE -black, sheared, locally rusty argillite locally graphitic				
18.00	92.00	FOLIATED FELDSPAR CRYSTAL LAPILLI TUFF -core broken and sheared locally rusty, light grey - green, 40% (1mm) feldspar in fine grained chloritic matrix; some coarse crystal tuff fragments present				
92.00	163.00	TUFF -fine grained feldspar - chlorite rock, may be a well - sheared, yet competent crystal tuff, as unit above grades into this light grey - green rock				
163.00	194.00	SHEAR ZONE -broken core, local gouge, 2' mafic dyke, rock in shear is argillaceous tuff				
194.00	217.00	ARGILLACEOUS TUFF -weakly banded argillaceous streaks in fine grained tuff				
217.00	232.00	SHEAR ZONE -broken core, gouge, of sheared rusty fine grained tuff				
232.00	312.00	EPIDOTIZED TUFF -green fine - medium grained tuff, fractured with epidote <5% to 1mm veinlets and pervasively chloritized -alteration increases down hole 278.00 - 282.00 diorite				

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-8-80

Page 1

Hole Location : 51509.83E 51869.94N

Claim No. :

NTS : 92J/03 UTM : 493718E,5552755N
 Azimuth : 59 15' Elevation : 4392.3 feet (1338.78M)
 Dip : -33 32' Length : 310 feet (94.5M)

Logged By : S. Clemer
 Drilling Co. :
 Assayed By :
 Core Size : BQ

Started :

Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)
0.00	6.00	CASING				
6.00	11.00	GRITTY TUFF -green medium grained gritty tuff, possibly crystal tuff, moderately epidotized -20% <.05mm to 1mm, feldspar crystals in a chloritic matrix				
11.00	35.00	EPIDOTIZED, BLEACHED CRYSTAL TUFF -rock is light grey - green, fractured, weakly silicified with < 5% 1 to 2mm, quartz veins, weakly epidotized, irregularity foliated, hard, moderately silicified				
35.00	48.50	PHYLLITIC ARGILLITE AND SILTY ARGILLITE -grey to black, banded 5 to 10mm, bands, argillite and siltstone, locally rusty				
48.50	51.50	MAFIC DYKE				
51.50	119.00	EPIDOTIZED SILICIFIED ROCK -similar to 11 to 35 except contain more strongly silicified zones -light grey - green, irregularity foliated, locally fractured, bleached, moderately to strongly silicified -5% 1 to 3mm quartz veining locally -5% 1 to 3mm irregular veining of epidote alteration 81.00 - 84.00 mafic dyke				
119.00	145.00	ARGILLITE AND SILTY ARGILLITE -grey to black finely banded, locally rusty argillite and lighter coloured silty argillite				
145.00	164.00	GREY CRYSTAL TUFF -fine grained grey, locally fractured and sheared, bleached, 20% <1 to 2mm, plagioclase crystals in a				

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-5-80 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
	435.00 - 444.00	core light grey bleached					
	441.00	-20cm gouge					
492.00 -	560.00	FELDSPAR CRYSTAL LAPILLI TUFF -grey-green, 40% 3 to 20mm, fine to medium grained angular stretched, feldspar crystal lapilli tuff fragments in a fine grained matrix	AF1151	543.0	543.5	0.5	-whole rock
560.00 -	572.00	IRON - CARBONATE ALTERED FAULT -light brown, pervasively altered, local shearing and minor gouge					
577.00 -	600.00	FELDSPAR CRYSTAL TUFF -grey-grey, medium grained, 5% 3 to 10mm fragments in a medium grained matrix					
600.00 -	663.00	FELDSPAR CRYSTAL LAPILLI TUFF -grey-green, 40 to 60%, 3 to 40mm, angular, fragments, light green-grey to green, fine grained to medium grained feldspar crystal tuff in a fine grained matrix 620.00 - 621.00-gouge					
663.00 -	670.00	IRON CARBONATE ALTERED -core light brown, pervasively altered.					
670.00 -	915.00	FELDSPAR CRYSTAL LAPILLI TUFF -grey-green to green weakly to moderately epidotized, 10 to 30% 1 to 3cm fragments of fine to coarse grained feldspar crystal tuff in a fine grained matrix 720.00 - 732.00-fault 720.00 - 722.00-core broken 722.00 - 730.00- mafic dyke 730.00 - 732.00-core broken 819.00 - 820.00- mafic dyke 858.00 - 863.00- mafic dyke 863.00 - 915.00-moderate epidotization	AF1152	783.0	783.5	0.5	-whole rock

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-8-80 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)
		fine grained grey matrix 151.00 4cm grey gouge				
164.00	186.00	ARGILLITE -interval starts units grey silty argillite and grades into rusty black graphitic argillite -at end of interval weakly epidotized pieces of next unit occur in argillite and some plagioclase crystals are seen in the unit				
186.00	239.00	FELDSPAR CRYSTAL LAPILLI TUFF -grey, weakly epidotized, medium grained to coarse grained foliated, 30% <1 to 2mm, altered plagioclase crystals in a fine grained matrix, <1 to 4cm, green fragment visible				
239.00	261.00	EPIDOTIZED CRYSTAL TUFF -dark green 10 to 25% epidote veined <1 to 5mm, medium to fine grained, gritty - looking rock				
261.00	293.00	FELDSPAR CRYSTAL LAPILLI TUFF -grey rock as in 186.00 to 239 except now has 5% disseminated biotite				
293.00	310.00	EPIDOTIZED HYBRID ROCK -irregularity intercalated strongly epidotized tuff and lesser dioritic material				

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-9-80

Page 1

Hole Location : 51484.79E 52045.89N

Claim No. :

NTS : 92J/03 UTM : 493711E,5552809N
 Azimuth : 50 51' Elevation : 4375.3 feet (1333.60M)
 Dip : -36 57' Length : 224 feet (68.3M)

Logged By : S. Clemmer
 Drilling Co. :
 Assayed By :
 Core Size : BB

Started :
 Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)
0.00	8.00	CASING				
8.00	27.00	TUFF -rusty, light grey- green rock, 40% feldspar in fine grained matrix -epidotized weakly, then moderately lower in core				
27.00	35.00	FAULT ZONE -core broken, 2' mafic dyke (31.00 to 33.00) minor argillaceous tuff				
35.00	60.50	EPIDOTIZED TUFF -green foliated to fractured and broken, epidote veined tuff 47.00 to 60.50-very broken core, malachite stain, cpy % controlled by fracturing and epidotization				
60.50	70.00	MAFIC DYKE				
70.00	81.00	EPIDOTIZED TUFF -green medium grained rock				
81.00	91.00	MAFIC DYKE				
91.00	113.00	EPIDOTIZED TUFF -rock green, with 30% vein and irregular patches of epidote rock looks weakly brecciated -lower contact marked by a 6cm quartz vein				
113.00	159.00	FELDSPAR CRYSTAL LAPILLI TUFF -grey green, sheared, locally broken core, some highly deformed fragments in a fine to medium grained feldspar - matrix				

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-9-80 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)
159.00	224.00	EPIDOTIZED TUFF? -green epidotized hybrid rock, core locally broken and sheared				

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-10-80 Page 2

From (ft)	To (ft)	Description
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Sample Number	From (ft)	To (ft)	Width (ft)
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siliceous; green mottled or patchy rock, <1 to 3%
pyrite locally in <1 to 1mm fractures

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-11-80 Page 1

Hole Location : 50895.46E 51400.45N

Claim No. :

NTS : 92J/03 UTM : 493531E.5552612N
 Azimuth : 41 38' Elevation : 4150.6 feet (1265.11M)
 Dip : -35 18' Length : 1300 feet (396.2M)

Logged By : S. Clemmer
 Drilling Co. :
 Assayed By :
 Core Size : BQ

Started :
 Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
0.00	7.00	CASING					
7.00	152.00	FOLIATED FELDSPAR CRYSTAL LAPILLI TUFF -green, chloritic, weakly to strongly foliated rock, fragments still visible but stretched, some finer tuff layers <1m may be present but make up only 10% of interval; fragment are of crystal tuff and are <1cm to 4cm, may be larger but due to foliation hard to tell -some <1m bands of mixed dark green fragment - crystal tuff fragment lapilli tuff 27.00 - 29.00 -dark green fragment - crystal tuff fragment lapilli tuff 79.00 - 92.00 -finer grained layer no fragment discernable 106.00 - 121.00 -finer grained	AF1064	77.0	77.5	0.5	-whole rock
152.00	175.00	FAULT ZONE -seven feet of gouge and very broken sheared core whole interval is broken and sheared 65' to core					
175.00	757.00	FELDSPAR CRYSTAL LAPILLI TUFF AND TUFF -green to locally grey-green lapilli tuff, 30 to 40% <1 to 4cm crystal tuff and green fine grained fragment in a green matrix 222.00 - 253.00 -mixed crystal tuff and dark green fragment lapilli tuff 253.00 - 281.00 -possible feldspar crystal breccia, as fragment up 10cm may be present 281.00 - 296.00 -green mixed lapilli tuff 296.00 - 301.00 -mafic dyke 325.00 -minor fault 35' to core 327.00 - 335.00 -mafic dyke 335.00 - 505.00 -lapilli tuff light grey-green and may include crystal breccia	AF1065 AF1066 AF1067 AF1068	263.0 483.0 538.0 704.0	263.5 483.5 550.0 704.5	0.5 0.5 12.0 0.5	-whole rock -whole rock -geochem -whole rock

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-11-80 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)
	505.00 - 520.00	-lapilli tuff now green and may include some tuff layers or fragment are hard to see				
	520.00 - 596.00	-grey to green lapilli tuff may include breccia				
	596.00 - 757.00	-weak epidotization				
	622.00 - 695.00	-coarser fragment 1 to 12cm feldspar crystal breccia				
757.00 - 802.00		FAULT OR SHEAR ZONE -core broken, weak to moderate epidotization, most rock is crystal lapilli tuff that is pyritic 1 to 3%, and locally bleached light yellow-green to white				
802.00 - 851.00		TUFF -dark green medium grained, 35 to 40% <1mm to 1mm feldspar in a fine grained chloritic matrix -crude <1 to 1cm banding	AF1069	837.0	837.5	0.5 -whole rock
851.00 - 937.00		EPIDOTIZED FELDSPAR LAPILLI TUFF -green, well foliated, 5%, 1 to 2mm carbonate veined, lapilli tuff -feldspar crystals are epidotized 918.00 - 921.00 -fault 35' to core 927.00 - 930.00 -bleached shearing 930.00 - 934.00 -mafic dyke 934.00 - 937.00 -fault zone, gouge, shearing				
937.00 - 1183.00		FOLIATED - EPIDOTIZED ROCK -dark green, epidote rich rock, with 10% 1 to 5mm chlorite clots, 5% carbonate veining, foliation 70 to 80' to core; quartz veining latter half of interval 993.00 - 1011.00 -silicified zone 'waxy' rock	AF1070	1015.0	1015.5	0.5 -whole rock
1183.00 - 1199.00		MAFIC DYKE				
1199.00 - 1300.00		FOLIATED EPIDOTIZED DIORITE				
1199.00 - 1300.00		FOLIATED EPIDOTIZED DIORITE				

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-12-80 Page 1

Hole Location : 49819.07E 52009.32N

Claim No. :

NTS : 92J/03 UTM : 493203E,5552798N
 Azimuth : 43 15' Elevation : 3782.5 feet (1152.91M)
 Dip : -32 49' Length : 998 feet (304.2M)

Logged By : S. Cleamer
 Drilling Co. :
 Assayed By :
 Core Size : 80

Started :

Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
0.00	10.00	CASING					
10.00	51.00	CHLORITIC FELDSPAR CRYSTAL TUFF -green, foliated, chloritic crystal, varies from crystal rich 20% 1 to 2mm, plagioclase crystals to fine grained chloritic tuff					
51.00	72.00	BOX 3 IS MISSING					
72.00	96.00	BLEACHED TUFF? -light brown, bleached zone, looks like originally crystal tuff, probably part of a fault zone	AF1085	89.0	89.5	0.5	-whole rock
96.00	113.00	CRYSTAL TUFF -fine grained green crystal tuff					
113.00	125.00	FAULT ZONE -core broken, local gouge, same bleached rock as at 72.00 to 96.00					
125.00	134.00	SHEARED FELDSPAR CRYSTAL LAPILLI TUFF					
134.00	140.00	FAULT ZONE -light brown bleached sheared rock					
140.00	277.00	FELDSPAR CRYSTAL LAPILLI TUFF -green foliated to weakly foliated, weakly epidotized, 20% <1 to 3cm, fragments fine grained to medium grained crystal tuff in a fine grained crystal tuff matrix 149.00 - 151.00 -quartz vein and breccia 158.00 - 159.50 -breccia and quartz vein 164.50 - 165.50 -fault hematitic gouge 174.00 - 175.00 -rusty pyritic shear 179.00 - 180.00 -rusty,pyrite,chloritic zone	AF1086	229.0	229.5	0.5	-whole rock

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-12-80 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
		-interval lapilli tuff also has 10.00 to 20% <1 to 2cm, dark green stretched tuff fragment					
277.00 -	708.00	FELDSPAR CRYSTAL TUFF					
	277.00 - 310.00	-grey feldspar crystal lapilli tuff	AF1087	361.0	361.5	0.5	-whole rock
	310.00 - 311.00	-sheared with gouge	AF1088	532.0	554.0	22.0	-geochem
	311.00 - 322.00	-grey feldspar crystal lapilli tuff	AF1089	595.0	595.5	0.5	-whole rock
	322.00 - 328.00	-fault, intensely sheared, core broken					
	328.00 - 369.00	-grey to grey - green weakly epidotized crystal lapilli tuff and breccia, fragments <1 to 8cm medium grained crystal tuff					
	369.00 - 389.00	-core broken and fractured lapilli tuff					
	389.00 - 430.00	-grey to green fine grained crystal tuff crystal lapilli tuff and tuff					
	430.00 - 445.00	-coarse grained crystal tuff, possibly a breccia layer					
	445.00 - 514.00	-green, weakly epidotized crystal tuff and tuff; crystal tuff has 20% <1 to 2mm, epidotized plagioclase crystals in a fine grained matrix					
	503.00 - 504.00	bleached, sheared fault zone					
	514.00 - 625.00	-feldspar crystal tuff and tuff -green, competent but foliated, with 35% <1mm, feldspar in a fine grained chloritic matrix, may be lapilli size fragment but cannot say for sure, probably some lapilli tuff					
	544.00 - 554.00	-core broken, 30% iron carbonate bleaching					
	541.00 - 542.00	-bleached 3% pyrite					
	625.00 - 649.00	-feldspar crystal lapilli tuff -grey 40% <1 to 5cm, medium grained fragment crystal tuff in an crystal tuff matrix					
	649.00 - 708.50	-green foliated fine grained tuff and lapilli tuff					
	708.50 - 738.00	-fault zone					
	708.50 - 710.50	-mafic dyke					
	736.00 - 738.00	-lost core, foliated light brown green sheared crystal tuff					
		-box 32 missing					
738.00 -	785.00	DARK GREY FELDSPAR CRYSTAL LAPILLI TUFF -20% <1 to 3cm, fragments in a chlorite - biotite - feldspar matrix					
785.00 -	817.00	FELDSPAR - BIOTITE ROCK -medium grained grey, grainy looking feldspar biotite rock -crystal tuff above grades into this rock	AF1090	811.0	811.5	0.5	-whole rock

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-12-80 Page 3

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)
817.00	831.00	HORNFEEL -fine grained hard dark grey rock -contant looks like a shrear				
831.00	953.00	DIORITE DYKE -grey - pink, 35% <1 to 3mm plagioclase crystals 10% <1 to 4mm, quartz in a cyrstalline matrix, 11% <1mm amphibole)				
953.00	974.00	FELDSPAR-BIOTITE ROCK				
974.00	998.00	DARK GREY FELDSPAR CRYSTAL LAPILLI TUFF -feldspar - biotite altered				

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-13-80 Page 1

Hole Location : 48811.68E 53120.20N

Claim No. :

NTS : 923/03 UTM : 492896E.5553136N
 Azimuth : 63 Elevation : 3501.5 feet (1067.27M)
 Dip : -36 Length : 210 feet (64.0M)

Logged By : S. Clemmer
 Drilling Co. :
 Assayed By :
 Core Size : BQ

Started :
 Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
0.00	15.00	CASING					
15.00	104.00	FELDSPAR CRYSTAL LAPILLI TUFF AND TUFF -grey - green, massive 15%, 1.00 to 4cm dark grey fragments (angular) in a medium - fined grained 25% (<1 to 1mm, plagioclase crystals in a fine grained chloritic matrix -some areas are tuff as no fragments are seen	AF1133	43.0	43.5	0.5	-whole rock
104.00	108.00	FAULT ZONE -core broken locally sheared -mostly feldspar crystal tuff					
108.00	119.00	FELDSPAR CRYSTAL LAPILLI TUFF -epidotized, fractured, coarse grained, 25% (<1 to 2mm, plagioclase crystal, in 1 to 5cm fragments, 40%, in a crystal tuff matrix					
119.00	136.00	FAULT OR SHEAR ZONE -medium grained feldspar crystal tuff, core broken					
136.00	141.00	FELDSPAR CRYSTAL TUFF -light grey - green, fractured, sheared, weakly epidotized, medium grained crystal tuff					
141.00	162.00	PYRITIC FELDSPAR CRYSTAL TUFF -dark grey, quartz veined 5%, 1 to 30mm white quartz veins, 5 to 10%, disseminated pyrite in a medium - coarse grained crystal tuff with 20% (<1 to 2mm, plagioclase crystals; zone looks brecciated	AF1134	141.0	162.0	21.0	-geochem
162.00	173.00	FELDSPAR CRYSTAL TUFF -grey medium grained, sheared, 1% pyrite, crystal tuff, 15% (<1 to 2mm, plagioclase crystals -weakly epidotized					

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-13-80 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)
173.00	210.00	<p>SHEAR ZONE</p> <p>-sheared, grey medium grained feldspar crystal tuff</p> <p>-core very broken</p> <p>-tuff is light grey, sericitic, with 15% <1 to 2mm, altered plagioclase crystal in a fine grained grey matrix</p>				

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-14-80 Page 1

Hole Location : 48530.43E 56174.05N

Claim No. :

NTS : 92J/03 UTM : 492810E,5554067N
 Azimuth : 26 16' Elevation : 3390.2 feet (1033.34')
 Dip : -37 48' Length : 600 feet (182.9M)

Logged By : S. Clemer
 Drilling Co. :
 Assayed By :
 Core Size : BQ

Started :
 Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
0.00	18.00	CASING					
18.00	105.00	VOLCANIC WACKE -green medium grained, massive, chloritic feldspar - quartz - matrix (40.00 - 10.00 - 50.00) rock, weakly epidotized 64.00 - 70.00 - mafic dyke 74.00 -20cm, gouge 70.00 - 74.00 -core broken weakly sheared -some weakly magnetic sections in interval 18.00 to 105.00	AF1056	92.0	92.5	0.5	-whole rock
105.00	119.00	FELDSPAR CRYSTAL LAPILLI TUFF -upper contact appears sharp at 30', may be weak shearing -grey - green, 40% 1 to 4cm, fragments, in crystal tuff matrix, interval weakly epidotized -crystal tuff has 20 to 30% (1 to 3mm plagioclase crystal -lower contact sheared 2cm gouge					
119.00	170.00	VOLCANIC WACKE -same as 18.00 105.00					
170.00	200.00	GREY WACKE -volcanic arenite above appear to grade into this grey feldspar - quartz - matrix (40.00 - 25.00 - 25.00), massive rock -in turn grey wacke is in a sharp sedimentary brecciated contact with unit below	AF1057	181.0	181.5	0.5	-whole rock
200.00	265.50	ARGILLACEOUS GREY WACKE AND SILTSTONE -grey to dark grey weakly banded to banded argillaceous grey wacke and siltstone -grey wacke similar to that at 170.00 - 200.00 201.00 - 204.00 -pyritic (3%) rusty rock 40% argillite 213.00 - 215.00 -pyritic (5%)	AF5109 AF5110 AF5111 AF1058	203.0 215.0 217.0 242.0	208.0 220.0 217.5 254.0	5.0 5.0 0.5 12.0	-geochem -geochem -whole rock -geochem

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-14-80 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
	231.00 - 236.00	-silty argillite					
	236.00 - 238.00	-argillaceous crystal tuff					
	238.00 - 257.00	-silty argillite and argillite -rusty and locally pyritic					
	257.00 - 265.50	-argillaceous grey wacke and siltstone					
265.50 -	278.00	SLAMP BRECCIA -zone consisted of <1 to 10cm, pieces of grey wacke clast supported with 10% argillite matrix, plagioclase crystals seen in matrix -zone become more argillite rich down hole and also more sheared, plagioclase crystals more common					
	274.00	-2cm, gouge, argillite sheared					
	278.00	-4cm gouge					
278.00 -	600.00	FELDSPAR CRYSTAL TUFF					
	279.00 - 282.00	-massive grey crystal tuff	AF5127	280.0	280.5	0.5	-whole rock
	282.00 - 289.00	-sheared, pyrite 2%, crystal tuff	AF5128	295.0	295.5	0.5	-whole rock
	289.00 - 357.00	-sheared as foliated light grey- green medium grained crystal tuff includes some discernable lapilli tuff and tuff	AF5129	313.0	313.5	0.5	-whole rock
			AF1059	314.0	314.5	0.5	-whole rock
			AF1060	331.0	331.5	0.5	-whole rock
	290.50 - 291.50	-quartz - eye feldspar crystal tuff, massive rock sharp contact	AF1061	432.0	432.5	0.5	-whole rock
	357.00 - 371.50	-epidotized crystal tuff 30% <1 to 10mm spots or patches epidote after plagioclase crystals and fragments	AF1062	521.0	521.5	0.5	-whole rock
			AF1063	558.0	558.5	0.5	-whole rock
	371.50 - 400.00	-fine grained tuff, 5 to 10%, 1 x 10mm stretched fragments in a fine grained green feldspar - chlorite matrix					
	400.00 - 482.00	-feldspar crystal breccia -coarse crystal (<1 to 5mm) breccia, up to 20cm grey crystal tuff fragments, maybe clast supported, 5% <1mm, quartz eyes					
	482.00 - 484.00	-core broken fault?					
	484.00 - 529.00	-feldspar crystal lapilli tuff -locally <5% <1 to 1mm quartz eyes -grey, locally moderate epidotized .5% <1 to 4mm, hornblende crystals, 10% dark green <1 to 10mm fragments of tuff, 30% <1 to 2cm fine grained crystal tuff fragments locally, in a fine to medium grained feldspar - chlorite matrix -locally <5%, <1 to 1mm quartz eyes					
	529.00 - 543.00	-fine grained tuff, grey feldspar and matrix					
	543.00 - 546.00	-mafic dyke					
	546.00 - 579.00	-coarse grained feldspar crystal breccia, grey 1 to 10cm fragments, 5% 1 to 3mm amphibole, 2% <<1mm quartz eyes					

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-14-80 Page 3

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)
	579.00 - 591.00	-epidotized feldspar crystal tuff				
	591.00 - 600.00	-coarse - grained feldspar crystal breccia, 5% 1 to 2mm quartz eyes				
		-box 26 last box found not sure if hole goes beyond 600 feet.				
278.00 -	600.00	FELDSPAR CRYSTAL TUFF				

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-15-80 Page 1

Hole Location : 48811.68E 53120.20N

Claim No. :

NTS : 92J/03 UTM : 492896E,5553136N
 Azimuth : 76 56' Elevation : 3501.5 feet (1067.26')
 Dip : -36 10' Length : 933 feet (284.4M)

Logged By : S. Clewmer
 Drilling Co. :
 Assayed By :
 Core Size : 80

Started :
 Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
0.00	13.00	CASING					
13.00	86.00	FELDSPAR CRYSTAL TUFF AND LAPILLI TUFF					
		-grey-green fine grained, 15% <1mm feldspar in a fine grained chloritic matrix	AF5089	45.0	45.5	0.5	-whole rock
		-1% <1 to 1mm carbonate, irregular veining					
	13.00 - 38.00	-lapilli tuff, 20% 1 to 2cm fragments of fine grained crystal tuff visible					
	56.00 - 57.00	-core sheared gouge					
	60.00 - 66.50	-core sheared gouge					
	38.00 - 85.00	-fine grained crystal tuff, rock looks like a tuff with 20% <1 to 3mm lithic fragments in a fine grained matrix					
	85.00 - 86.00	-gouge, shearing					
86.00	97.00	MAFIC DYKE					
97.00	98.00	CORE SHEARED AND GOUGE					
98.50	221.00	FELDSPAR CRYSTAL LAPILLI TUFF					
		-grey-green, foliated, chloritic, fine to medium grained	AF5090	45.0	45.5	0.5	-whole rock
		15% <1 to 2mm plagioclase crystals in a fine grained chloritic matrix with 10 to 20% <1 to 3cm fragments of fine grained tuff and locally medium grained feldspar crystal tuff	AF5091	214.0	247.0	33.0	-geochem
	117.00	-20cm gouge					
	118.00 - 119.00	-core broken sheared					
	124.00 - 125.00	-core broken					
	133.00 - 137.00	-core sheared, gouge and broken					
	150.00 - 153.00	-core bleached, sheared 20cm gouge					
	188.00 - 192.00	-core bleached sheared					
221.00	226.50	SHEARED FELDSPAR CRYSTAL LAPILLI TUFF					
		-grey, bleached, sheared, core broken, 15% <1 to 2mm					

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-15-80 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
		plagioclase crystals in a fine grained sericitic - clay - like matrix, <1% disseminated pyrite -contacts above and below gradational					
226.30	635.00	FELDSPAR CRYSTAL LAPILLI TUFF AND TUFF					
		-grey-green fine grained locally medium grained, 10 to 20% <1 to 1mm plagioclase crystals in a fine grained chloritic matrix, 10 to 40% 3 to 30mm fragments, larger fragments usually fine to medium grained feldspar crystal tuff, smaller fragments green and fine grained all fragments stretched	AF5092	247.0	267.0	20.0	-geochem
			AF5093	267.0	293.0	26.0	-geochem
			AF5094	293.0	311.0	18.0	-geochem
			AF5104	294.0	294.5	0.5	-whole rock
			AF5095	311.0	330.0	19.0	-geochem
			AF5096	330.0	364.0	24.0	-geochem
		226.50 - 318.00 -core very broken up, weak bleaching, 2% pyrite, some bright green chlorite ? 5%	AF5097	364.0	393.0	19.0	-geochem
		336.00 - 349.00 -core broken, some gouge bright green chlorite ? 5%, 2% pyrite	AF5098	393.0	417.0	24.0	-geochem
			AF5099	417.0	437.0	20.0	-geochem
			AF5105	443.0	443.5	0.5	-whole rock
		362.00 - 386.00 -core very broken, local gouge	AF5100	498.0	524.0	26.0	-geochem
		401.00 - 415.00 -core very broken	AF5101	524.0	547.0	23.0	-geochem
		415.00 - 446.00 -core moderately broken	AF5102	547.0	574.0	27.0	-geochem
		488.00 - 495.00 -mafic dyke	AF5103	574.0	599.0	25.0	-geochem
		495.00 - 505.00 -core bleached grey, clay altered sheared, broken	AF5106	605.0	605.5	0.5	-whole rock
		505.00 - 549.00 -core moderately broken to locally very broken					
		549.00 - 562.00 -core sheared, weakly bleached, 2% pyrite 2% bright green chlorite ?, core very broken					
635.00	720.00	IRON - CARBONATE ALTERED FAULT ZONE					
		-upper contact gradational	AF5107	679.0	679.5	0.5	-whole rock
		635.00 - 647.00 -moderate to strongly iron - carbonate veined feldspar crystal tuff, 5 to 40% carbonate altered					
		647.00 - 650.50 -light brown, pervasively iron - carbonate altered					
		650.50 - 658.00 -quartz vein " bull " and carbonate altered volcanic					
		658.00 - 694.50 -bleached brown-white, pervasively altered fractured and brecciated volcanic					
		694.50 - 703.00 -core finely 1 to 3mm shears and broken, still carbonate altered					
		703.00 - 720.00 -iron - carbonate veined moderate altered volcanic, 20% <1 to 4mm iron carbonate irregular veins most parallel to cleavage					
720.00	937.00	FELDSPAR CRYSTAL TUFF					
		-boxes 32,33 missing	AF5108	907.0	907.5	0.5	-whole rock
		-grey-green medium to fine grained, 20% <1 to 1mm plagioclase crystals in a fine grained chloritic matrix, weak epidotization					

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-15-80 Page 3

From (ft)	To (ft)	Description
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Sample Number	From (ft)	To (ft)	Width (ft)
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	883.00	- 890.00	-mafic dyke
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FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-16-80

Page 1

Hole Location : 48850E 46274.8N

Claim No. :

NTS : 92J/03 UTM : 492909E,5551050N
 Azimuth : 70 Elevation : 2825 feet (8611M)
 Dip : -35 Length : 604 feet (104.1M)

Logged By : S. Clemmer
 Drilling Co. :
 Assayed By :
 Core Size : BQ

Started :

Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
0.00	31.00	CASING OVERBURDEN					
31.00	42.00	BRECCIA -tectonic or surface weathering breccia, clast - supported, fragments include sheared feldspar crystal tuff, fine grained tuff, <1 to 2cm, angular in a fine grained limonitic matrix					
42.00	422.00	TUFF AND LAPILLI TUFF -long monotonous interval of fine to medium grained tuff with some <1 to 3cm fragments visible suggesting lapilli layers are present	AF1153	139.0	139.5	0.5	-whole rock
			AF1154	306.0	306.5	0.5	-whole rock
	42.00 - 73.00	-lapilli tuff, dark green chloritic rock, 25%, <1 to 3cm, sheared chloritic, stretched fragments possibly chloritized feldspar crystal tuff, in a fine - medium grained chloritic matrix interval weakly to moderate epidotized					
	58.00 - 59.00	-brecciated fault zone					
	73.50	-jasper or hematitic 1 to 3mm veining					
	73.00 - 158.00	-fine to medium grained chloritic, locally epidotized tuff, <1 to 3mm. 40% dark green fragments in a fine grained chloritic matrix, some banding, lam bands locally					
	128.00	-jasper or hematitic veins					
	158.00 - 195.00	-lapilli tuff, grey to grey - green, 30% <1 to 3cm, stretched fragments, of chloritized feldspar crystal tuff in a fine grained chloritic tuffaceous matrix locally moderate epidotized					
	195.00 - 196.00	-fault 5cm quartz vein, core broken					
	196.00 - 206.00	-mafic dyke					
	206.00 - 342.00	-feldspar crystal lapilli tuff grey to dark green, fine to medium grained 30%					

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-16-80 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
		<1 to 5cm, feldspar crystal tuff, stretched and 'hard to see' fragment in a fine grained chloritic matrix -interval may include some fine grained tuff layers					
	255.50	-3cm gouge 65' to core					
	343.00	-10cm gouge					
	343.00 - 350.00	-felsic dyke					
	350.00 - 354.00	-mafic dyke					
	354.00 - 422.00	-same as 206.00 - 343.00					
422.00 - 543.00		LAPILLI TUFF -distinct grey - green unit with 50% <1 to 6cm, 1/3 dark green chloritic fragments and 2/3 chloritized medium grained feldspar crystal tuff, stretched fragments in a fine grained matrix 440.00 - 442.00-mafic dyke 474.00 - 543.00-weak to moderate 'patchy' epidotization 485.00 - 486.00-fault 3cm gouge and mylonitic dark rock	AF1155	467.0	467.5	0.5	-whole rock
543.00 - 604.00		EPIDOTIZED FELDSPAR CRYSTAL LAPILLI TUFF -grey green, massive, 30% <1 to 2mm, epidotized feldspar crystals in a fine grained matrix, vague outline of fragments could even be breccia sized fragments	AF1156	589.0	589.5	0.5	-whole rock

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-17-80

Page 1

Hole Location : 48800E 46250N

Claim No. :

NTS : 92J/03 UTM : 492892E,5551042N
 Azimuth : 255 Elevation : 2825 feet (861M)
 Dip : -45 Length : 206 feet (62.8M)

Logged By : S. Clemmer
 Drilling Co. :
 Assayed By :
 Core Size : BQ

Started :

Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
0.00	61.00	OVERBURDEN					
61.00	206.00	FELDSPAR CRYSTAL LAPILLI TUFF -grey, 20 to 40%, <1 to 5cm, fine to coarse grained feldspar crystal tuff fragments in a fine grained crystal tuff matrix	AF1135	120.0	120.5	0.5	-whole rock
		61.00 - 105.00 -lapilli tuff					
		105.00 - 125.00 -medium grained feldspar crystal tuff					
		125.00 - 206.00 -lapilli tuff					

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-18-80

Page 1

Hole Location : 49200E 8337.5N

Claim No. :

NTS : 92J/03 UTM : 493014E,5551678N
 Azimuth : 65 Elevation : 3230 feet (984.5M)
 Dip : -35 Length : 1198 feet (365.2M)

Logged By : S. Clemer
 Drilling Co. :
 Assayed By :
 Core Size : BQ

Started :
 Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)
0.00	532.00	ONLY HAVE BOXES 23 to 50				
532.00	567.00	FELDSPAR CRYSTAL LAPILLI TUFF AND BRECCIA -green medium to coarse grained feldspar crystal tuff fragments, in a fine grained chloritic matrix -fragments <1 to 15cm, coarse grained 40% <1 to 2mm plagioclase crystals				
567.00	589.50	LAPILLI TUFF -grey 35%, <1 to 3cm, fine grained and locally coarse grained feldspar crystal tuff, stretched fragments in a fine grained matrix -upper contact sharp				
589.50	590.50	MAFIC DYKE				
590.50	592.00	LAPILLI TUFF				
592.00	598.00	MAFIC DYKE				
598.00	632.00	FELDSPAR CRYSTAL TUFF -green chloritized medium - coarse grained, 30% <1 to 2mm, chloritic pseudomorph altered plagioclase in a fine grained matrix 613.50 - 617.50 - mafic dyke				
632.00	674.00	LAPILLI TUFF -grey, 25% <1 to 2cm, stretched, chloritized, fine - medium grained feldspar crystal tuff fragments in a fine grained matrix	AF1157	654.0	654.5	0.5 -whole rock
674.00	682.00	FELDSPAR CRYSTAL TUFF -coarse grained, 30% <1 to 3mm, feldspar crystals in a fine grained matrix, interval weakly epidotized				

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-18-80 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
682.00	684.00	QUARTZ VEIN, BULL QUARTZ					
684.00	1198.00	FELDSPAR CRYSTAL LAPILLI TUFF AND BRECCIA					
		-grey-green 20 to 40%, <1 to 4cm, locally up to 10cm	AF1158	850.0	850.5	0.5	-whole rock
		fragments of chloritized stretched fine - coarse grained	AF1159	1051.0	1051.5	0.5	-whole rock
		feldspar crystal tuff in a medium - fine grained feldspar					
		crystal tuff matrix					
		718.00 - 749.00 -zone weakly to moderately veined and					
		altered, iron carbonate and hematitic					
		veins <1 to 3mm, 2% of rock					
		749.00 - 768.00 -strong iron carbonate alteration,					
		5% <1 to 5mm, iron carbonate veining					
		869.00 - 875.00 -minor hematitic veining <1 to 1mm					
		934.00 -hematitic veins 1mm					
		947.00 - 949.50- mafic dyke					
		1039.00- 1042.00-iron carbonate altered					
		1085.00- 1090.00-iron carbonate altered					
		1115.00- 1117.00-iron carbonate altered					
		1124.00- 1126.00-lapilli tuff contains 5% pyrite, pyrite					
		in clasts 5 to 30mm stretched in					
		in cleavage, zone weakly bleached					
		1131.00- 1133.00-silicified					
		1133.00- 1135.50-pyritic lapilli tuff 3% pyrite					
		1135.50- 1138.50- mafic dyke					
		1138.50- 1155.00-rusty locally shreaded lapilli tuff					
		1195.00- 1198.00-iron carbonate veining					

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-19-80 Page 1

Hole Location : 48125E 54325N

Claim No. :

NTS : 92J/03 UTM : 492777E,5553504N
 Azimuth : 64 Elevation : 3350 feet (1021M)
 Dip : -33 Length : 882 feet (268.8M)

Logged By : S. Clemmer
 Drilling Co. :
 Assayed By :
 Core Size : 80

Started :
 Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
0.00	311.00	VOLCANIC WACKE					
		-massive fine grained, green, <.5 to 1mm, 30% feldspar, 10% <.5mm quartz, in a fine chloritic matrix, rock could be a fine - grained facies of the crystal tuff	AF1136	67.0	67.5	0.5	-whole rock
			AF1137	245.0	245.5	0.5	-whole rock
	6.00	- 8.00 - mafic dyke					
	89.00	- 92.00 -shear zone 1 foot mafic dyke 10cm gouge					
	97.00	- 100.00 -shear zone 2 feet mafic dyke					
	114.00	- 115.00 -lapilli tuff layer, 30% 1 to 3cm fine grained fragment in medium grained crystal tuff matrix					
	132.00	-6 inches lapilli tuff layer					
	208.00	- 220.00 -tuffaceous layer, 5% .5mm feldspar crystals, 1% 1 to 3mm feldspar crystals, <1mm 10% debris in a chloritic matrix, contacts sharp but weakly sheared					
311.00	328.00	LAPILLI TUFF					
		-upper contact sheared 2cm gouge					
		-40% 1 to 6cm fragment in a medium grained feldspar - chlorite matrix, fragment include altered crystal tuff, fine grained chloritic tuff fragment, and banded siliceous - looking siltstone; minor pyrite <1%					
328.50	329.00	SHEAR 10cm grey green gouge					
329.00	331.00	MAFIC DYKE					
331.00	333.00	FAULT breccia, 10cm gouge					
333.00	345.00	FELSIC DYKE					
		-fine grained pink aphanitic hard rock					
345.00	378.00	VOLCANIC WACKE					
		-grey-green fine grained, 30% <.5 to 1mm feldspar in a					

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-19-80 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
		chloritic matrix, possibly 10% quartz 370.00 - 371.00 -lapilli tuff layer					
378.00	447.00	LAPILLI TUFF -both upper and lower contacts are abrupt and sharp -3% <1mm quartz eyes -green rock with 20 to 40% <1 to 3cm fragment in a fine grained chlorite - quartz matrix. -fragment include 1/3 crystal tuff, others are green fine grained tuffaceous material. some fragment look bleached and some 4mm broken plagioclase crystals seen	AF1138	396.0	396.5	0.5	-whole rock
447.00	500.00	VOLCANIC WACKE -same as 345.00 378.00 -lower contact sharp	AF1139	495.0	495.5	0.5	-whole rock
500.00	510.00	LAPILLI TUFF -30% <1 to 5cm angular fragment of volcanic wacke in a chloritic matrix with 15% tuffaceous debris <1 to 3mm					
510.00	517.00	VOLCANIC WACKE -same as 447.00 500.00 -upper and lower contacts sharp					
517.00	551.00	FELDSPAR CRYSTAL LAPILLI TUFF -contacts are sharp with adjacent units -green, 20 to 40% <1 to 5cm stretched fine grained to medium grained feldspar crystal tuff fragment in a crystal tuff matrix with 20% <.5 to 1mm feldspar crystals in fine grained chloritic matrix	AF1140	545.0	545.5	0.5	-whole rock
551.00	589.00	VOLCANIC WACKE -fine grained, massive rock, green, 30% <.5mm feldspar in a fine grained chloritic matrix					
589.00	635.00	FAULT ZONE 589.00 - 602.00 -broken and fractures volcanic wacke, minor gouge 602.00 - 608.00 -mafic dyke 608.00 - 612.00 -gouge zone grey to yellow gouge 612.00 - 624.00 -broken, sheared and fractures locally bleached lapilli tuff 624.00 - 632.00 -mafic dyke 632.00 - 636.00 -sheared, broken core, 2 feet yellow-grey gouge					
636.00	684.00	BLEACHED TUFF -light grey brown, sheared, bleached rock, fine grained, 40% feldspar <.5mm, 10% quartz <.5mm, in a fine grained					

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-19-80 Page 3

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
		light coloured matrix.					
684.00	722.00	ARGILLACEOUS VOLCANIC WACKE -upper contact gradational -lower contact looks sheared -grey to dark grey, 40% <.5 to 1mm feldspar in a fine grained argillaceous matrix -rock becomes darker and more argillaceous as you go down the hole 709.00 -5cm gouge	AF1141	710.0	720.5	10.0	-geochem
722.00	882.00	FELDSPAR CRYSTAL TUFF -massive, medium grained to coarse grained, <1 to 4mm. 35% feldspar crystals in a fine grained matrix, matrix looks bleached and sericitic -upper contact in part gradational and sheared 722.00 - 735.00 -rock foliated and sheared 744.00 - 758.00 -core broken minor gouge and shearing 795.00 - 805.00 -core strongly bleached light brown local 3mm pyrite cubes 815.00 - 817.00 -core strongly bleached 880.00 - 882.00 -core bleached, sericitic 3% pyrite	AF1142	790.0	790.5	0.5	-whole rock

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-1-81

Page 1

Hole Location : 47150E 50537N

Claim No. :

NTS : 92J/03 UTM : 492389E.5552349N
 Azimuth : 279 Elevation : 3320 feet (1012M)
 Dip : -45 Length : 506 feet (154.2M)

Logged By : S. Clemer
 Drilling Co. :
 Assayed By :
 Core Size : BQ

Started :

Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
0.00	7.00	CASING					
7.00	99.00	VOLCANIC WACKE -green medium grained, feldspar - quartz - matrix (50-5-45), matrix chloritic -locally epidotized 17.00 - 18.00 -fault 20cm gouge 69.00 - 71.50 -mafic dyke 76.00 - 83.00 -mafic dyke	AF1160	42.0	42.5	0.5	-whole rock
99.00	155.00	VOLCANIC WACKE -grey fine to medium grained, feldspar - quartz - matrix (50-15-35), weakly calcaceous rock -upper contact may be gradational or fractured sedimentary or tectonic -lower contact sharp 123.00 - 128.00 -mafic dyke					
155.00	190.00	FELDSPAR CRYSTAL TUFF -coarse grained to medium grained, (<1 to 2mm feldspar in a fine grained matrix, zone weakly epidotized 177.00 - 182.00 -grey volcanic wacke or tuff contact sharp, unit weakly banded, toward bottom of interval	AF1161	167.0	167.5	0.5	-whole rock
190.00	307.00	GREY WACKE -grey, weakly to irregularly banded, feldspar - quartz - matrix (50-20-30), fine grained rock 205.00 - 216.00 -rock looks tuffaceous, light grey-green 10% stretched 1 to 5mm lithic debris -after 290 feet rock is banded with 25% 2 to 6mm silty argillite bands	AF1162	252.0	252.5	0.5	-whole rock
307.00	321.00	CONTACT ZONE					

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-1-81 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
		-this zone contains both layers of grey wacke and fine grained feldspar crystal tuff, sedimentary slump feature?					
321.00	346.00	FELDSPAR CRYSTAL LAPILLI TUFF AND BRECCIA -coarse grained, grey, 20 to 30% <1 to 2mm feldspar crystals, some 10cm fragments					
346.00	364.00	FELDSPAR CRYSTAL TUFF -upper and lower contact sharp -green, 5% <1 to 2mm feldspar crystals in a fine grained tuffaceous matrix					
364.00	386.00	FELDSPAR - AMPHIBOLE CRYSTAL BRECCIA -very coarse-grained, 20% <1 to 5mm feldspar crystals and <5% <1 to 8mm amphibole crystals in a fine grained matrix, fragments may be quite large, 30cm in this interval.					
386.00	420.00	FELDSPAR - AMPHIBOLE CRYSTAL LAPILLI TUFF AND TUFF -coarse grained 10 to 30% <1 to 3mm plagioclase crystals and 2% 1 to 12mm black amphibole crystals in a fine grained matrix -10% <1 to 2cm crystal tuff fragment	AF1163	393.0	393.5	0.5	-whole rock
420.00	450.00	FELDSPAR CRYSTAL TUFF AND LAPILLI TUFF -upper contact sharp -grey, coarse grained 15% <1 to 4mm plagioclase crystals in a fine grained matrix some <1 to 4cm fragments visible	AF1164	445.0	445.5	0.5	-whole rock
450.00	454.00	FAULT -core broken and sheared. -some carbonate veining					
454.00	506.00	EPIDOTIZED FELDSPAR CRYSTAL TUFF -light grey-green weakly silicified and epidotized, possibly feldspar lapilli tuff as some <1 to 6cm fragments are still visible despite alteration					

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-2-81

Page 1

Hole Location : Location unknown

Claim No. :

NTS : 92J/03 UTM :
Azimuth : Elevation :
Dip : Length :

Logged By : S. Clemmer
Drilling Co. :
Assayed By :
Core Size : 80

Started :

Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
0.00	5.00	CASING					
5.00	497.00	VOLCANIC WACKE					
		-green fine to coarse grained, weakly to moderately epidotized, 30% feldspar in a fine grained matrix	AF5114	185.0	185.5	0.5	-whole rock
		5.00 - 42.00 -moderate epidotized 30% (<1 to 2mm spots epidote, fine grained magnetite bearing wacke	AF5115	466.0	466.5	0.5	-whole rock
		42.00 - 75.00 -grey medium to coarse grained wacke, feldspar - quartz - biotite rock					
		75.00 - 497.00 -fine to medium grained wacke, epidote altered					
497.00	524.00	FAULT ZONE					
		-core bleached broken, core lost, shearing					
524.00	611.00	AUGITE TUFF					
		-green massive 15% (<1 to 2mm augite crystals in a fine grained matrix, moderate epidotization as 5 to 30% <1 to 4mm spots; lower contact sharp					
611.00	701.00	VOLCANIC WACKE					
		-green medium to fine grained wacke.					

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-3-81

Page 1

Hole Location : 44620E 50268N

Claim No. :

NTS : 92J/03 UTM : 491623E,5552271N
 Azimuth : 290 Elevation : 2725 feet (831M)
 Dip : -40 Length : 505 feet (153.9M)

Logged By : S. Clewmer
 Drilling Co. :
 Assayed By :
 Core Size : 80

Started :
 Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
0.00	2.00	CASING					
2.00	68.50	GREEN MEDIUM GRAINED VOLCANIC WACKE -composed of 40% feldspar crystals, 40% volcanic material and matrix and possibly 5 to 10% quartz; grain size is approximately 0.5mm -rock is weakly to locally strongly epidotized 27.00 - 28.00 -minor shear (1% pyrite rock darker 30.50 - 32.00 -fault core broken, gouge 30' to core 45.50 - 46.50 -rock pyritic 1%, dark grey with 10% white 0.5mm feldspar crystals (tuff layer?) 50.50 - 51.50 -fault core broken,gouge 53.00 -shear 10cm 50' to core 63.50 - 66.00 -chloritized, 1% pyrite 59.00 - 61.00 -magnetite bearing 5% disseminated	AD3836 AD3837	20.0 61.0	20.5 61.5	0.5 0.5	-whole rock -whole rock
68.50	73.50	TUFF OR WACKE -wacke above almost appears to grade into the tuff -20% (1 to 2mm plagioclase crystals in green matrix -one 1cm fragment present	AD3838	70.0	70.5	0.5	-whole rock
73.50	93.00	MAFIC TUFF -tuff above appears to grade into a dark green tuff that contains 0 to 5% feldspar crystals, 5% 1mm dark green clots in a green matrix					
93.00	95.00	FAULT -rock sheared bleached, core broken, some gouge					
95.00	135.00	GREY WACKE -light grey-green granular quartz - feldspar in a chloritic matrix, grain size at top of interval is 0.5mm and happens to grade coarser toward bottom of interval	AD3839	101.0	101.5	0.5	-whole rock

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-3-B1 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)
		(1.0mm)				
	130.00 - 133.00	-core bleached tan colour above fault				
	133.00	-10cm fault gouge black				
	133.00 - 135.00	-2 feet light brown mafic dyke				
135.00 -	151.00	DARK TO LIGHT GREY ARGILLACEOUS GREY WACKE				
		-medium grained feldspar - quartz in a dark grey matrix with some minor banding				
	150.00	-25cm fault, core graphitic and sheared 80' to core				
151.00 -	159.50	GREY WACKE				
		-feldspar - quartz in a fine grained grey matrix				
159.50 -	163.50	FELDSPAR CRYSTAL TUFF				
		-10% (1 to 3mm feldspar crystals in a fine grained feldspar - quartz matrix, also other (1mm debris in matrix				
		-contact top 35', bottom 25'				
		-contact sharp				
163.50 -	186.00	GREY WACKE				
		-fine to medium grained feldspar - quartz in grey to grey green matrix				
	181.00 - 186.00	-bleached tan above fault zone				
186.00 -	187.50	FAULT ZONE				
		-graphitic, minor gouge 75' to core				
187.50 -	236.00	GREY WACKE				
		-same as 163.50 - 186.00				
	187.50 - 194.00	-tan bleaching				
	203.00 - 205.00	-core broken, 3cm pyrite - calcite vein				
	205.00 - 206.00	-tan bleached				
	211.00 - 213.00	-silicified sheared bleached				
236.00 -	254.00	ARGILLACEOUS GREY WACKE				
		-coarse to medium grained grey wacke intercalated 30% argillite (<1 to 5mm) layers				
		-top toward top of the hole				
		-grades into unit below				
254.00 -	291.00	ARENITE				
		-weakly banded light grey green medium grained, 1% carbonate grains, feldspar - quartz in grey-green matrix				
	263.00 - 271.00	-tan bleaching				
291.00 -	296.00	ARGILLITE				
		-dark-grey-black banded argillite				

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-3-81 Page 3

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
296.00	359.00	GREY WACKE -grey to light green-grey medium grained locally coarse grained feldspar - quartz in a light green matrix, weakly banded with 1 to 4mm slightly argillaceous layers 322.00 - 332.00 -fault zone, rock sheared and argillaceous	AD3840	306.0	306.5	0.5	-whole rock
359.00	399.00	ARGILLITE AND GREY WACKE -intercalated (50 / 50) black locally graphitic argillite and dark grey weakly argillaceous grey wacke -graded bedding tops to top of hole 390.00 - 399.00 -grey wacke 370.00 - 372.00 -fault, quartz vein 10cm	AD3841	384.0	384.5	0.5	-geochem
399.00	403.00	FAULT -graphitic, sheared, gouge					
403.00	405.50	LAPILLI TUFF -<1 to 4cm light green angular fragment of crystal tuff in argillaceous matrix					
405.50	411.00	TUFFACEOUS WACKE -grey medium grey feldspar - quartz rock, with 5%, <.5 by 3mm lithic fragments or glass? in a grey-green matrix - lower contact 40'					
411.00	462.00	FELDSPAR CRYSTAL LAPILLI TUFF -grey-green rock, matrix supported 1 to 5cm stretched fragment in a darker grey-green matrix -feldspar <1 to 3mm often altered green 411.00 - 424.00 -rock sheared					
462.00	467.00	MAFIC DYKE -contact 45' to core					
467.00	505.00	FELDSPAR CRYSTAL LAPILLI TUFF AND BRECCIA -similar to above except fragments up to approximately 10cm? and fragments now have 1 to 4mm white feldspar crystals (10 to 20%)	AD3842	493.0	493.5	0.5	-whole rock

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-4-81

Page 1

Hole Location : 44752E 49948N

Claim No. :

NTS : 92J/03 UTM : 491661E,5552173N
 Azimuth : 280 Elevation : 2685 feet (818M)
 Dip : -45 Length : 507 feet (154.5M)

Logged By : S. Clemmer
 Drilling Co. :
 Assayed By :
 Core Size : BQ

Started :
 Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
0.00	14.00	OVERBURDEN OR CASING					
14.00	175.00	WACKE (MAGNETITE BEARING) -fine to medium grained locally coarse grained banded, locally graded bedded, green, feldspar - quartz in a chloritic matrix; (locally 5 to 10% magnetite beds <1cm; top to top of hole 36.50 - 37.00 -fault zone 4cm gouge 129.00 - 132.00 -fault core broken 134.00 - 136.00 -core broken 137.00 - 147.00 -possible crystal tuff or coarse-grained wacke 20% <1 to 2mm feldspar crystals	AD3843	74.0	74.5	0.5	-whole rock
175.00	185.00	MAFIC DYKE -lower contact fault gouge					
185.00	345.00	WACKE (MAGNETITE BEARING) -same as 14.00 175.00 -below 225 unit is weakly epidotized	AD3844	317.0	317.5	0.5	-whole rock
345.00	384.00	FELDSPAR CRYSTAL TUFF OR TUFF -grey rock with 0 to 20%, <1 to 2mm feldspar crystals in a grey matrix -occasional 1 to 3cm fragment visible -matrix fine grained feldspar and matrix material -1% disseminated pyrite -upper contact sharp 40% to core -lower contact partly sheared but looks like underlying wacke has been disrupted	AD3845	366.0	366.5	0.5	-whole rock
384.00	480.00	WACKE -light green to grey, medium grained, weakly banded, quartz - feldspar grains in a light green matrix 440.00 - 441.00 -tan bleached 2cm gouge	AD3846	436.0	436.5	0.5	-whole rock

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-4-81 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)
480.00	492.00	<p>FAULT ZONE</p> <p>-argillaceous, locally graphitic, gouge and breccia zone, one fragment crystal tuff noted</p> <p>-zone sheared 80' to core</p>				
492.00	507.00	<p>WACKE AND ARGILLITE</p> <p>-grey medium grained feldspar - quartz rock with grey matrix</p> <p>-last 5 feet of hole <1 to 2cm intercalated argillite and wacke</p> <p>-hole ends in a fault zone.</p>				

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-5-B1

Page 1

Hole Location : 43494E 50316N

Claim No. :

NTS : 92J/03 UTM : 491278E,5552285N
 Azimuth : 225 Elevation : 2505 feet (764M)
 Dip : -40 Length : 551 feet (167.9M)

Logged By : S. Clemmer
 Drilling Co. :
 Assayed By :
 Core Size : 8Q

Started :

Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
0.00	4.00	OVERBURDEN					
4.00	291.00	FELDSPAR CRYSTAL LAPILLI TUFF AND BRECCIA					
		-large thickness of pyroclastic rocks	AD3847	31.0	31.5	0.5	-whole rock
		4.00 - 45.00 -mostly light grey crystal breccia may include massive sections, clast supported, fragment 80% coarse crystal tuff	AD3848	141.0	141.5	0.5	-whole rock
			AD3849	237.0	237.5	0.5	-whole rock
		45.00 - 174.00 -matrix supported crystal breccia -more variety in crystal tuff fragment from fine grained to coarse crystal tuff -matrix 60% hyaloclastic looking light green -fragment (1 to 20cm, stretched and angular -some 1m beds crystal lapilli tuff -some fragment look like hyaloclastic tuff -1/3 fragment crystal tuff, other 2/3 are smaller and dark green and fine grained and some are hyaloclastic looking					
		174.00 - 291.50 -feldspar crystal lapilli tuff -varies from crystal rich (15%) layers to crystal poor layers -crystal poor layers have 1 to 2cm dark green fragments and occur in 1 to 2m layers -crystal rich layer may contain large 10cm fragments					
291.50	342.00	FELDSPAR CRYSTAL LAPILLI TUFF AND BRECCIA					
		-similar to previous unit except matrix is dark grey and argillaceous -10 to 15% 1 to 5mm feldspar crystals set in an	AD3850	333.0	333.5	0.5	-whole rock

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-5-81 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
		argillaceous matrix, 20%, 1 to 10cm fragments of crystal tuff and fine grained green tuff -unit becomes more argillaceous down hole					
342.00	350.00	MAFIC DYKE -contact sharp 45'					
350.00	363.00	ARGILLACEOUS FELDSPAR CRYSTAL LAPILLI TUFF -same as above -last 8 feet of unit very argillaceous with 1 to 3cm argillite beds, finely banded.					
363.00	385.50	ARGILLITE AND SILTSTONE (AND CRYSTAL TUFF) -intercalated black argillite, silty layers and still some local feldspar crystals 365.00 - 367.00 -light felsic dyke or silicified 376.00 - 377.00 -fault gouge black	AD3901	381.0	383.0	2.0	-geochem
385.50	551.00	WACKE -light grey-green medium grained feldspar - quartz rock with grey-green matrix 385.50 - 407.00 -core silicified, Northair split it 424.00 - 431.00 -rusty locally sheared. 527.00 - 528.00 -mafic dyke	AD3902 AD3903	385.0 510.0	409.0 510.5	24.0 0.5	-geochem -whole rock

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-6-81

Page 1

Hole Location : 43473E 50279N

Claim No. :

NTS : 92J/03 UTM : 491272E,5552274N
 Azimuth : 103 Elevation : 2515 feet (767M)
 Dip : -45 Length : 655 feet (199.6M)

Logged By : S. Clemmer
 Drilling Co. :
 Assayed By :
 Core Size : 80

Started :

Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
0.00	9.00	OVERBURDEN					
9.00	65.00	FELDSPAR CRYSTAL LAPILLI TUFF AND BRECCIA -intercalated grey feldspar crystal breccia and dark green lapilli tuff -breccia composed of 1 to 20cm fragments with 20 to 30% white, 1 to 5mm plagioclase crystals in grey matrix -lapilli tuff has fewer plagioclase crystals often <5%, and has 20% <1 to 5cm stretched fragment in a green matrix, fragment 1/3 crystal tuff and 2/3 dark green tuffaceous fragments 45.00 - 50.00 -green tuff layers sheared, 30% <1 to 2mm feldspar, 10% dark stretched fragment 0.5 by 2mm in a chloritic matrix	AD3904	23.0	23.5	0.5	-whole rock
65.00	74.00	SHEARED LAPILLI TUFF -dark grey sheared, 35% dark .5 to 2cm fragments in a chloritic matrix -rock may be sheared feldspar lapilli tuff -appears to grade into unit below					
74.00	80.00	FELSIC DYKE -medium grained grey-green feldspar - quartz - matrix (40 - 10 - 50) -sheared last 2 feet					
80.00	81.00	FAULT -sheared, gouge, 70' to core, contains sheared crystal tuff material					
81.00	90.00	FELSIC DYKE -calcaceous grey-green feldspar - matrix medium grained, matrix calcite and light green -<5% 1mm calcite rounded areas					

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-6-B1 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
90.00	107.00	ARGILLACEOUS FELDSPAR CRYSTAL LAPILLI TUFF -dark grey sheared matrix supported, 40% fragments mostly light green-grey tuffaceous fragments <1 to 4cm, angular, also 20% crystal tuff fragments all in argillite matrix that has 10% 1 to 5mm plagioclase crystals (45' to core) 91.00 -20cm black fault gouge					
107.00	114.50	MASSIVE FELDSPAR CRYSTAL TUFF -light grey, 15% 1 to 5mm, euhedral locally broken, zoned plagioclase crystals in a light green tuffaceous matrix -appears to grade into unit below					
114.50	133.00	ARGILLITE AND ARGILLACEOUS CRYSTAL TUFF -black, silty argillite, interbedded with 30% argillaceous crystal tuff 130.00 - 132.00 shear zone minor gouge	AD3905	123.0	125.0	2.0	-geochem
133.00	177.00	ARGILLACEOUS CRYSTAL TUFF AND LAPILLI TUFF -dark grey, matrix supported <1 to 3cm, crystal tuff fragment in a black argillaceous matrix -some 6cm fragments crystal tuff around 150.00 156.00 - 159.00 -argillite layer 159.00 - 161.00 -core broken sheared 162.00 - 166.50 -fault zone 40' to core -unit appears to grade into argillite below	AD3906	171.0	171.5	0.5	-whole rock
177.00	200.50	ARGILLITE AND TUFFACEOUS ARGILLITE -silty to massive weakly cleaved argillite, cleav 30' to core -70% argillite	AD3907	187.0	192.0	5.0	-geochem
200.50	372.00	TUFFACEOUS ARGILLITE AND ARGILLITE -zone consisted of intercalated beds of coarse tuffaceous argillite (1 to 3mm fragments size) that grade into massive argillite -tops to top of hole -tuffaceous layers contain 10 to 30% fine <1mm to coarse 1 to 4mm plagioclase crystals and lithic debris 220.00 - 232.00 -core sheared graphitic argillite 250.00 - 253.00 -gouge, graphitic 263.00 -10cm gouge 296.00 - 301.00 -lost core and gouge 335.00 -10cm gouge 358.00 - 361.00 -felsic dyke ?	AD3908 AD3909 AD3910 AD3911	220.0 251.0 280.0 340.0	230.0 262.0 286.0 356.0	10.0 11.0 6.0 16.0	-geochem -geochem -geochem -geochem
372.00	389.00	MAFIC DYKE					
389.00	404.00	ARGILLACEOUS FELDSPAR CRYSTAL LAPILLI TUFF -40% <1 to 5cm, crystal tuff and dark green tuffaceous fragment in argillaceous matrix with 15% <1 to 5mm,					

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-6-81 Page 3

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)
		plagioclase crystals -lower contact faulted				
404.00	437.00	FELDSPAR CRYSTAL BRECCIA AND LAPILLI TUFF -light grey - green crystal breccia and tuff -sheared toward bottom of interval -420 to 423 light green arenite bed				
437.00	439.00	FAULT -core bleached sheared and silicified 10cm gouge				
439.00	655.00	VOLCANIC WACKE -light grey to grey - green fine to coarse grained, feldspar - quartz - matrix (40 - 20 - 40) matrix light green to yellow green if weakly epidotized -graded bedding on the scale of 50 to 200cm shows tops to top of hole -coarse - grained layers contain up to 25% 1 to 2mm feldspar grains and more matrix 446.00 -to 25cm gouge zone	AD3912	523.0	523.5	0.5 -whole rock

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-1-B6

Page 1

Hole Location : 47000E 43080N

Claim No. :

NTS : 92J/03 UTM : 492343E,5550076N
 Azimuth : 034 Elevation :
 Dip : -45 Length : 547 feet (166.7M)

Logged By : S. Clemmer
 Drilling Co. :
 Assayed By :
 Core Size : 80

Started :

Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)
0.00	15.00	CASING				
15.00	195.00	CHLORITIC FELDSPAR CRYSTAL TUFF				
		-dark green, well foliated locally sheared, coarse grained, 20%, (1 to 2mm plagioclase crystals in a fine grained chloritic matrix, 5% 1 to 10mm quartz veins irregularly distributed in interval				
44.00	46.00	-core sheared, 10 cm quartz vein				
50.00	59.00	-core sheared, 1 to 5cm, quartz veining				
59.00	64.00	-1 to 3cm quartz veining, dark green chlorite alteration				
86.00	87.00	-shear 8cm gouge				
67.00	89.00	-foliation is 20' to core ie. shearing at that angle				
90.00	104.00	-shear zone or fault, core broken, 1.5' pink calcite vein, cu strain just below vein at 102				
107.00	109.00	-core broken 25cm bull quartz vein				
117.00	119.00	-shear 10cm gouge 20cm quartz vein				
119.00	144.00	-core is grey less chloritic, looks like or grey sheared coarse grained feldspar lapilli tuff or breccia				
144.00	195.00	-very chloritic, possibly pyroxene or amphibole bearing hybrid zone of altered tuff, zone is epidotized, 10% (1 to 10mm foliation bound quartz veining				
		-at 178.00, 6" looks dioritic				
		-lower contact at 195 sharp and lost 12' of rock very strongly epidotized, speck cpy seen at 195'				
195.00	223.00	HYBRID DIORITIC ROCK				
		-light grey - green, foliated, quartz - feldspar - chlorite rock 50% 1 to 3mm feldspar, 30% 1 to 2mm quartz and				

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : 9-1-86 Page 2

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
		chloritic matrix with a sheared plutonic texture					
223.00	238.00	HYBRED TUFF ROCK -green, foliated, upper contact sharp, epidotized feldspar crystal tuff					
238.00	279.00	FAULT ZONE -238.00 - 256.00 -silicified zone and quartz vein 256.00 - 262.00 -iron - carbonate - silicified shear zone, rock weathers light brown, fractured 262.00 - 275.00 -broken core and gouge 40% of interval is gouge 275.00 - 279.00 -iron - carbonate altered coarse grained feldspar crystal tuff, lower contact gradational over 20cm					
279.00	292.00	FELDSPAR CRYSTAL BRECCIA -grey, massive rock, possibly clast supported, 1 to 8cm, fragments of coarse grained 25% 1 to 4mm plagioclase crystals in a fine grained grey matrix 284.00 - 285.00 -banded tuff layer fine grained 10% (1 to 1mm plagioclase in a wacke matrix graded bedding tops to bottom of hole -lower contact sharp					
292.00	316.00	FELDSPAR CRYSTAL LAPILLI TUFF AND BRECCIA 292.00 - 301.00 -lapilli tuff 50%, grey - green, 5 to 25mm, stretched, fine grained to coarse grained feldspar crystal tuff with 0 to 15% 1 to 3mm plagioclase crystals; fragments in a dark grey - green matrix with 20% 1 to 4mm plagioclase crystals in fine grained lithic and argillaceous debris 301.00 - 316.00 -similar to 292.00 - 301.00 except now 20% 5 to 10cm coarse grained feldspar crystal fragments	AF5114	297.0	297.5	0.5	-whole rock
316.00	334.00	FAULT ZONE -zone has 30% bull quartz veins in 3, 1 to 1.5 foot veins, a 2' gouge zone starting at 318 and the rest is sheared crystal tuff					
334.00	360.00	FELDSPAR CRYSTAL LAPILLI TUFF AND BRECCIA -grey, 2/3 fragments light grey - green 5 to 25mm fine to medium grained 0 to 15% plagioclase, 1 to 3mm crystals stretched, others 1/3 fragments are 5 to 10cm coarse grained with 20% 1 to 4mm plagioclase crystals, 40 to 50% fragments set in a fine grained grey - black matrix with					

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-1-B6 Page 3

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
		5 to 10%, 1 to 2mm plagioclase crystals 357.00 - 358.00 -core weakly sheared, broken some gouge					
360.00	363.00	FELDSPAR CRYSTAL TUFF OR WACKE -fine grained dark grey, argillaceous, 5% <1 to 1mm plagioclase crystals in a fine grained gritty argillaceous matrix -top and bottom contact sharp					
363.00	373.00	FELDSPAR CRYSTAL LAPILLI TUFF AND BRECCIA -same as 334.00 - 360.00					
373.00	403.00	FELDSPAR CRYSTALL LAPILLI TUFF -light grey - green, rock, 10 to 20%, <1 to 5cm occasionally 10cm, fragments of coarse grained feldspar crystal tuff is fine grained grey - green matrix; 5% <1 to 2mm, plagioclase crystals in matrix					
403.00	406.00	MAFIC DYKE					
406.00	407.00	FAULT -20cm gouge					
407.00	422.00	FELDSPAR CRYSTAL TUFF -massive, coarse grained 30% 1 to 5mm plagioclase crystals in a fine grained grey matrix, 5% 1 to 3cm fine grained fragments with <5% <1 to 1mm plagioclase crystals in them -lower contact is sharp, upper contact sheared					
422.00	439.00	FELDSPAR CRYSTAL BRECCIA -start of unit contact sharp, first 2' argillaceous -10 to 40%, <1 to 10cm, fragments of coarse grained feldspar crystal tuff in a fine grained matrix -fragments get larger as you go down hole, last 3.5' of interval looks like massive coarse grained crystal tuff; lower contact sharp -one 10cm fragment looks like it has chilled margins					
439.00	477.00	FELDSPAR CRYSTAL LAPILLI TUFF -first half in interval is 40%, 2/3, 3 to 10mm fine grained grey-green fragments and 1/3, 1 to 3cm medium to coarse grained feldspar crystal tuff fragments in a fine grained argillaceous matrix with 10% <1 to 2mm plagioclase crystals -one 3x10mm pyritic argillite fragment seen -at 551 - 552.50 is a dark grey medium grained wacke layers, 5% 1 to 2mm plagioclase crystals and 20%, 1 to 7mm lithic debris -after 460 interval is no longer argillaceous; fragments are now 40 - 60%, 2/3, <1 to 8cm coarse grained feldspar	AF5115	466.0	466.5	0.5	-whole rock

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-1-B6 Page 4

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)
		crystal tuff and 1/3, 3 to 10mm, fine grained feldspar crystal tuff in a fine grained grey matrix				
477.00	487.00	WACKE OR TUFF -fine - medium grained, grey - green, 40% <1mm feldspar in a fine grained light green matrix -in interval there are 7, 2 to 5cm coarse grained feldspar crystal tuff fragments				
487.00	547.00	FELDSPAR CRYSTAL LAPILLI TUFF -dark green, 20 to 40%, 2/3, <1 to 5cm coarse grained feldspar crystal tuff fragments, 1/3 1 to 20mm dark green fine grained tuff fragments chloritic matrix with 10%, <1 to 1mm plagioclase crystals -one 10cm dark green fine grained tuff fragments present				

FALCONBRIDGE LIMITED DIAMOND DRILL LOG

PROPERTY : NORTHAIR OPTION

HOLE No. : S-2-80

Page 1

Hole Location : 48889.44E 51459.94N

Claim No. :

NTS : 92J/03 UTM : 492919E,5552630N
 Azimuth : 48 34' Elevation : 3474.3 feet (1058.96M)
 Dip : -35 06' Length : 1139 feet (347.1M)

Logged By : S. Clemmer
 Drilling Co. :
 Assaved By :
 Core Size : 80

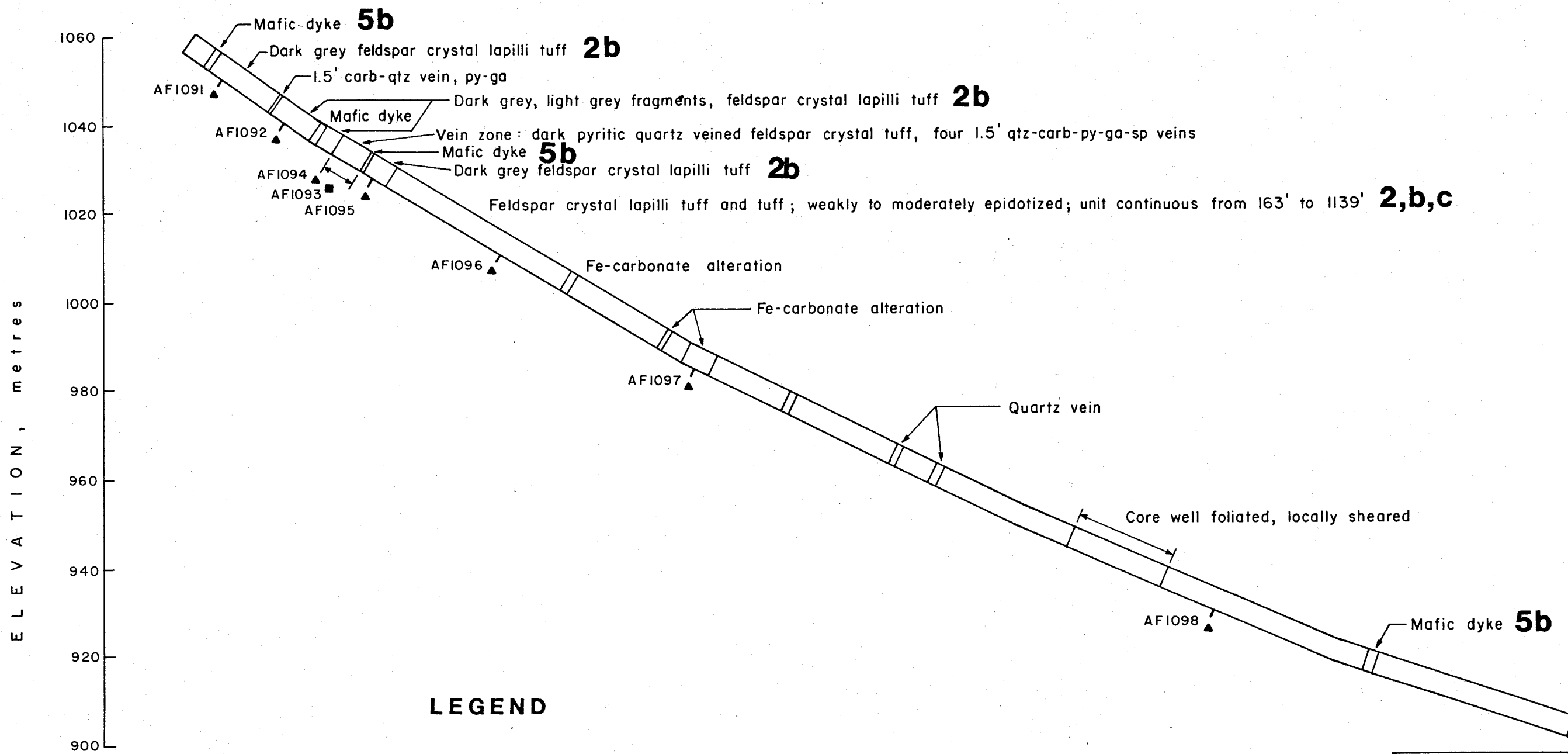
Started :
 Completed :

Purpose :

Dip Test :

From (ft)	To (ft)	Description	Sample Number	From (ft)	To (ft)	Width (ft)	
0.00	19.00	CASING					
19.00	135.50	FELDSPAR CRYSTAL LAPILLI TUFF					
		-dark grey (darker than usual), 40% medium grained, <1 to 6cm, feldspar crystal tuff fragments in a fine grained dark crystal tuff matrix	AF1091	33.0	33.5	0.5	-whole rock
			AF1092	91.0	91.5	0.5	-whole rock
		20.00 - 25.00 -mafic dyke					
		25.00 - 26.00 -core broken					
		25.00 - 76.00 -dark grey feldspar crystal lapilli tuff with 40% <1 to 4cm, mostly medium grained crystal tuff fragment some fine grained crystal tuff fragments all in fine to medium grained matrix					
		72.00 - 10cm gouge					
		76.00 - 77.50 -vein, weak breccia, pink carbonate 5% pyrite, 1% galena					
		77.50 - 116.00 -lapilli tuff, dark grey, 35% 2 to 20mm angular fragments, occasional 2 to 5cm crystal tuff fragment, 1/2 fragments are light grey and siliceous. 1/4 dark grey, 1/4 feldspar crystal tuff, one of which is 10cm; siliceous grey fragments all <2cm and very angular					
		116.00 - 120.00-mafic dyke					
		120.00 - 133.50-feldspar crystal lapilli tuff -similar to 77.5 - 116 except more feldspar crystal tuff fragments and zone looks tectonically sheared.					
		133.00 -10cm quartz-carbonate vein 2% pyrite, sphalerite					
135.50	160.00	VEIN ZONE					
		-dark grey feldspar crystal tuff, not sure if there are fragments, 1% disseminated pyrite, 2% <1 to 4mm quartz	AF1093	136.0	160.0	24.0	-geochem
			AF1094	136.0	160.0	24.0	-whole rock

DDH S-2-80



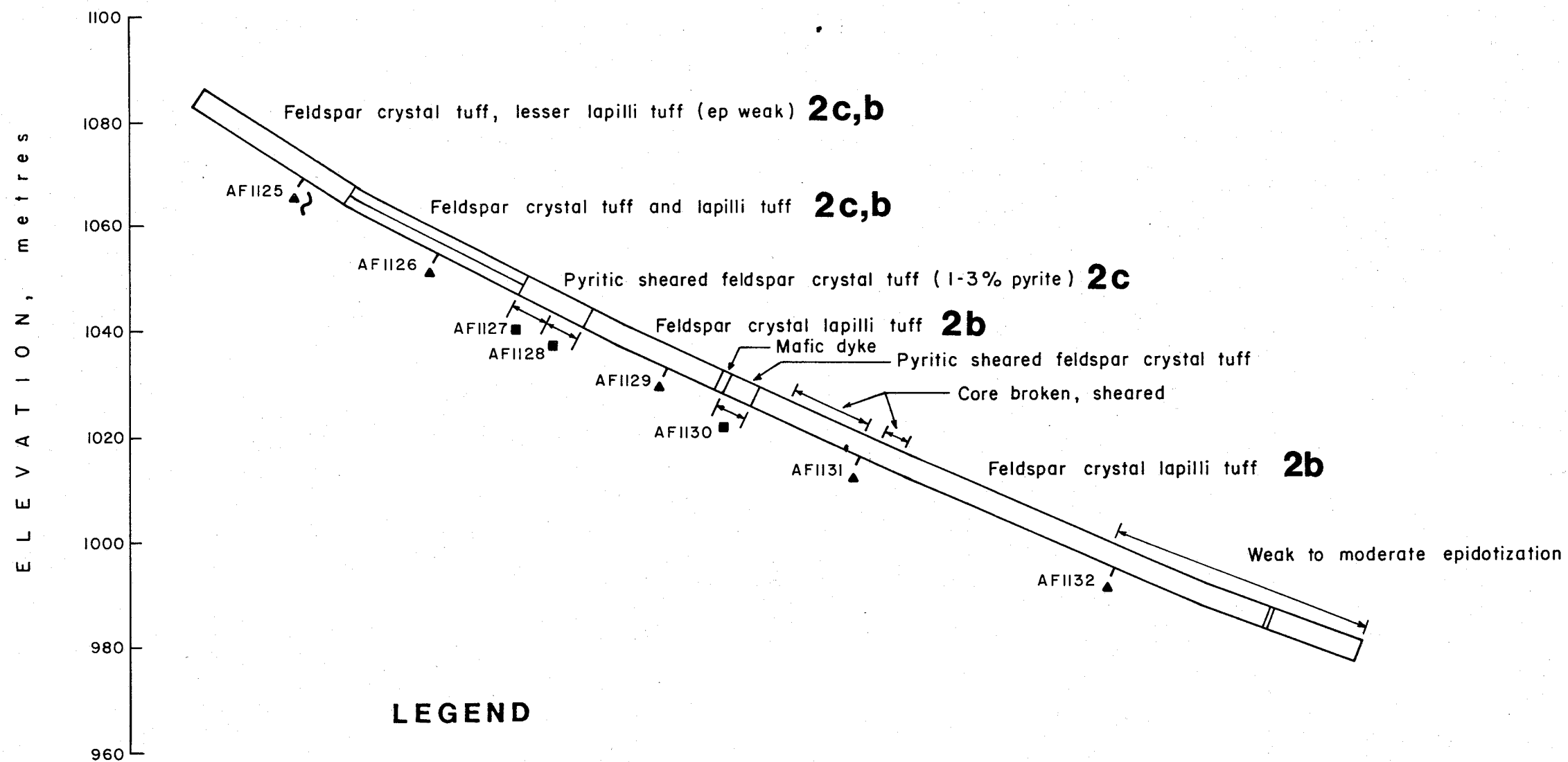
LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

FALCONBRIDGE LIMITED		
NORTHAIR OPTION		
DRILL HOLE		
S-2-80		
PROJ. 140		
WORK BY	DRAWN BY	DATE: Sept 1987
SC	VJG	
SCALE IN METRES 1 : 1000		
Figure:		

DDH S-3-80



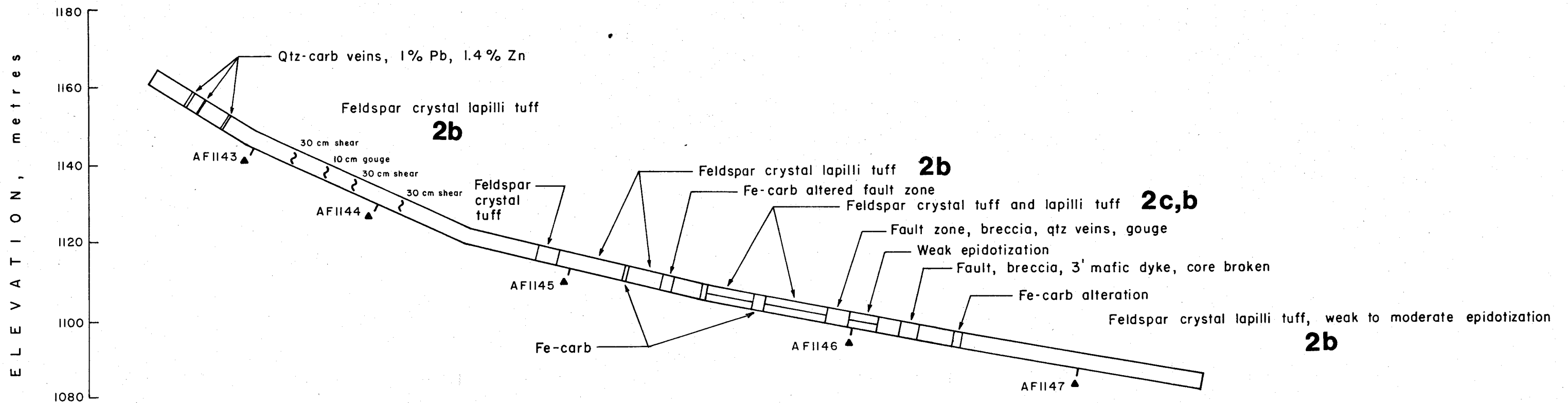
LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

FALCONBRIDGE LIMITED		
NORTHAIR OPTION		
DRILL HOLE		
S-3-80		
PROJ. 140		
WORK BY	DRAWN BY	DATE, Sept 1987
SC	VJG	
SCALE IN METRES 1:1000		
Figure:		

DDH S-4-80



LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

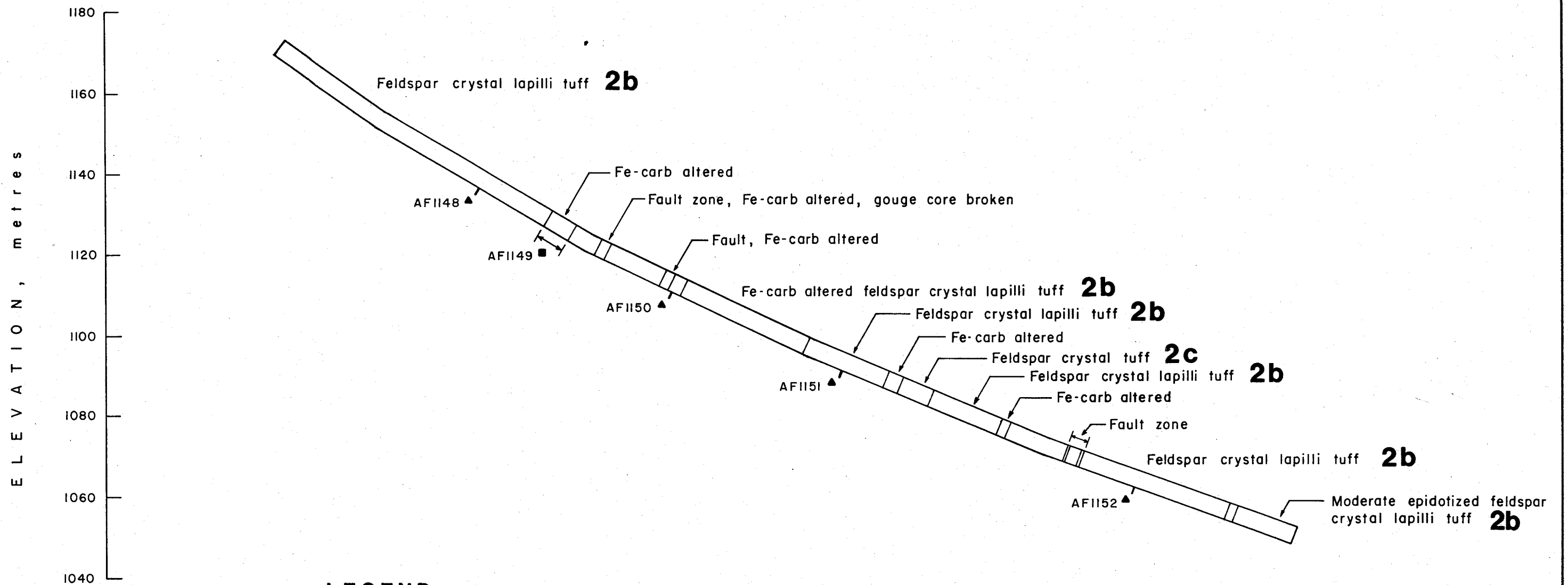
FALCONBRIDGE LIMITED
NORTHAIR OPTION
DRILL HOLE
S-4-80

PROJ. 140

WORK BY SC	DRAWN BY VJG	DATE Sept 1987
10 0 10 20 30 40 50		
SCALE IN METRES		1 : 1000

Figure:

DDH S-5-80



LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

FALCONBRIDGE LIMITED

NORTHAIR OPTION

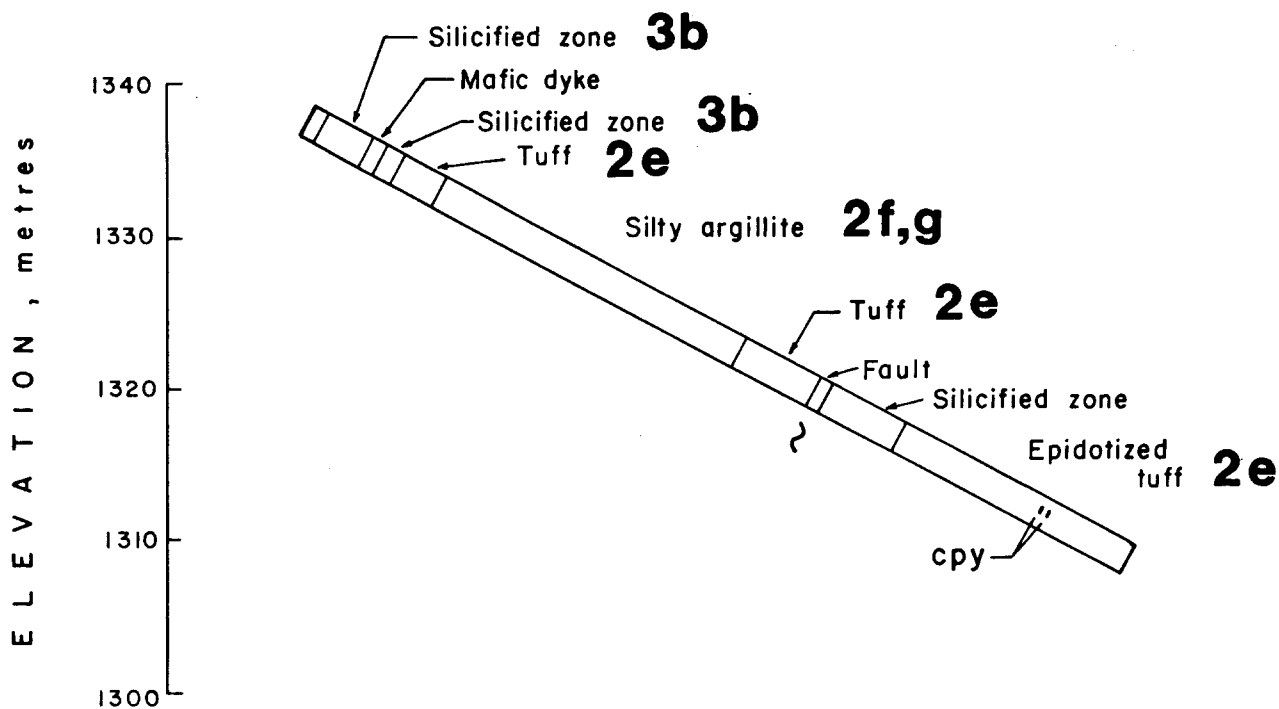
**DRILL HOLE
S-5-80**

PROJ. 140

WORK BY SC	DRAWN BY VJG	DATE
10 0 10 20 30 40 50		
SCALE IN METRES		1:1000

Figure:

DDH S-6-80



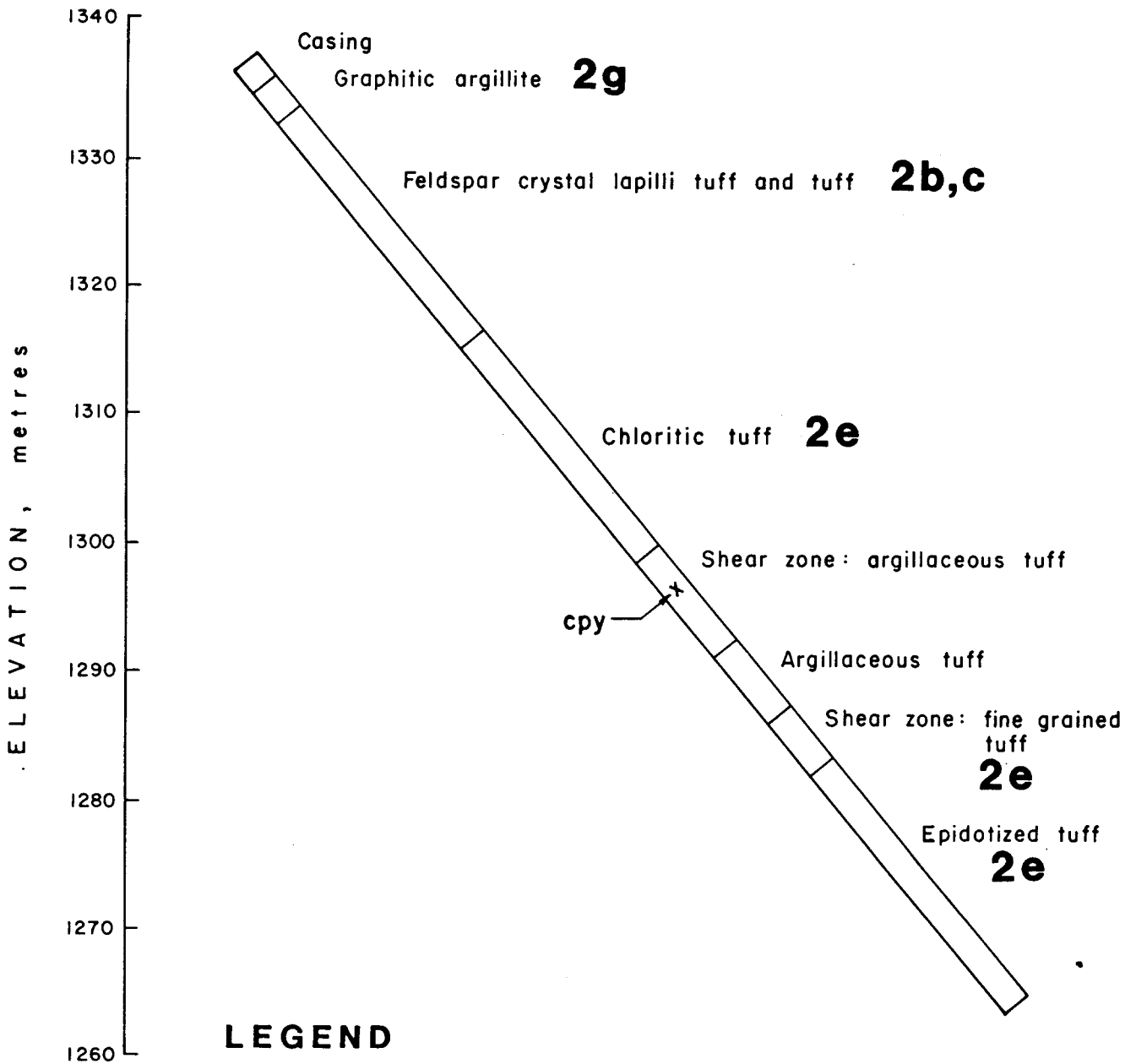
LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

FALCONBRIDGE LIMITED		
NORTHAIR OPTION		
DRILL HOLE		
S-6-80		
PROJ. 140		
WORK BY	DRAWN BY	DATE.
SC	VJG	Aug 1987
SCALE IN METRES 1: 500		
Figure:		

DDH S-7-80



LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

FALCONBRIDGE LIMITED

NORTHAIR OPTION
**DRILL HOLE
 S-7-80**

PROJ. 140

WORK BY

DRAWN BY

DATE: Aug 1987

SC

VJG

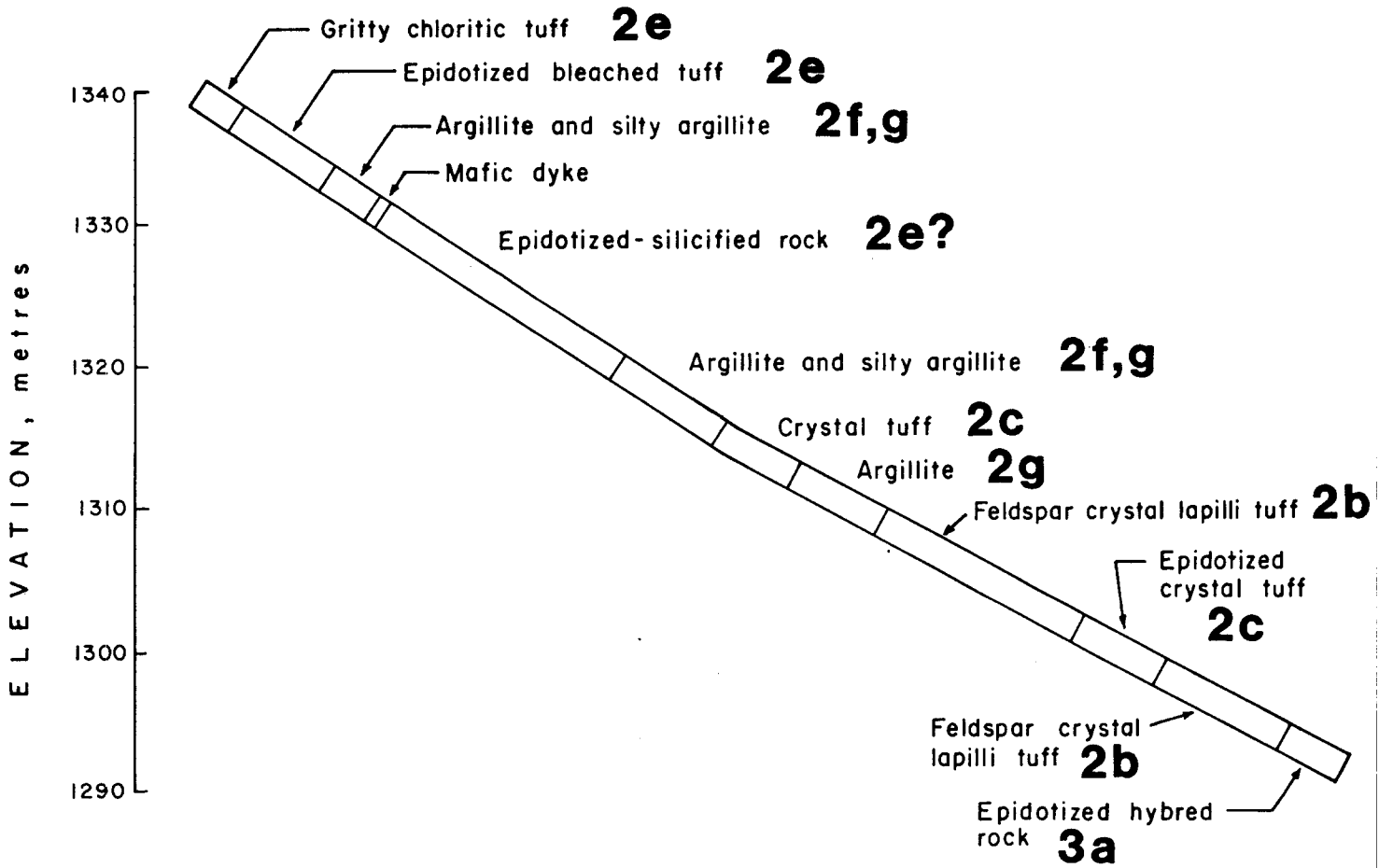
10 0 10 20

SCALE IN METRES

1 : 500

Figure:

DDH S-8-80



LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

FALCONBRIDGE LIMITED

NORTHAIR OPTION

DRILL HOLE
S-8-80

PROJ. 140

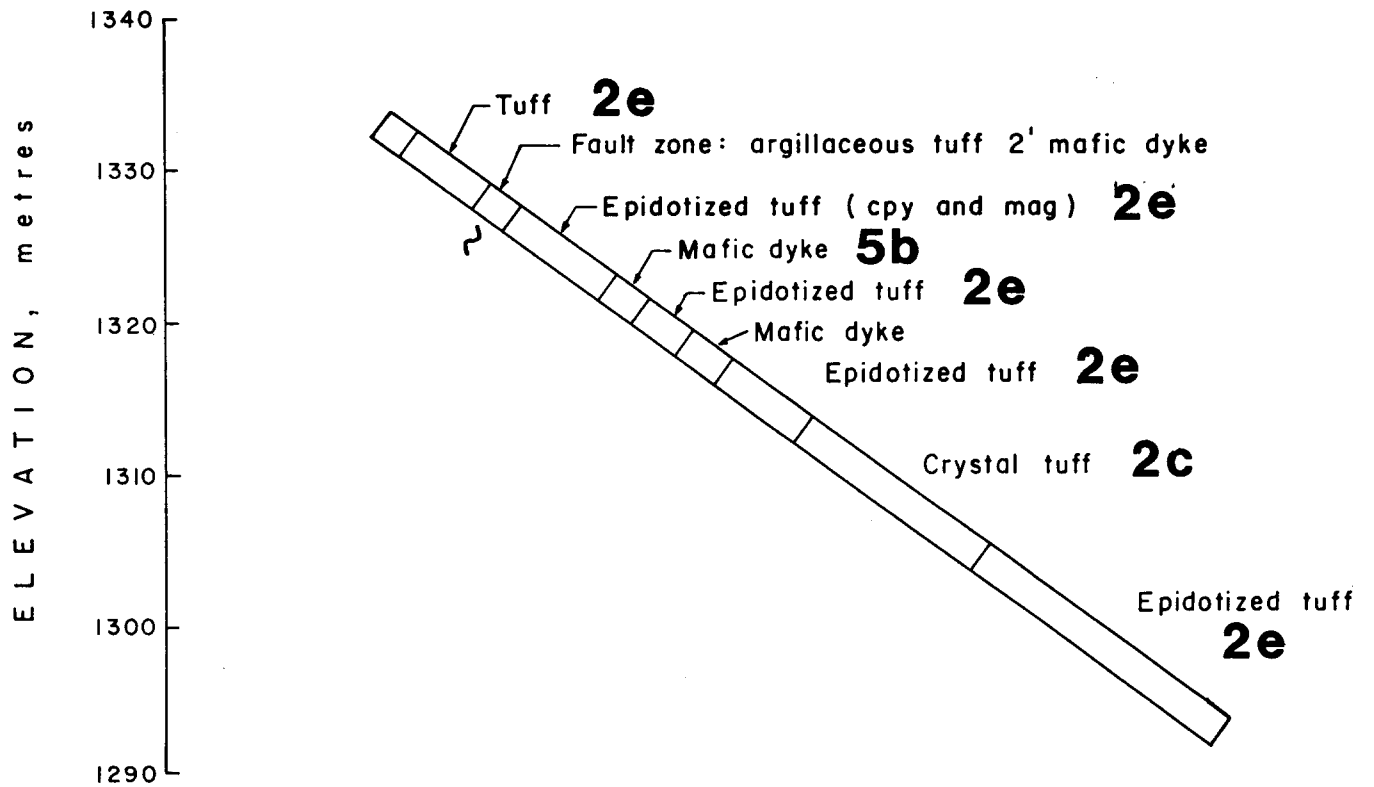
WORK BY	DRAWN BY	DATE. Aug 1987
SC	VJG	



SCALE IN METRES 1 : 500

Figure:

DDH S-9-80



LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

FALCONBRIDGE LIMITED

NORTHAIR OPTION

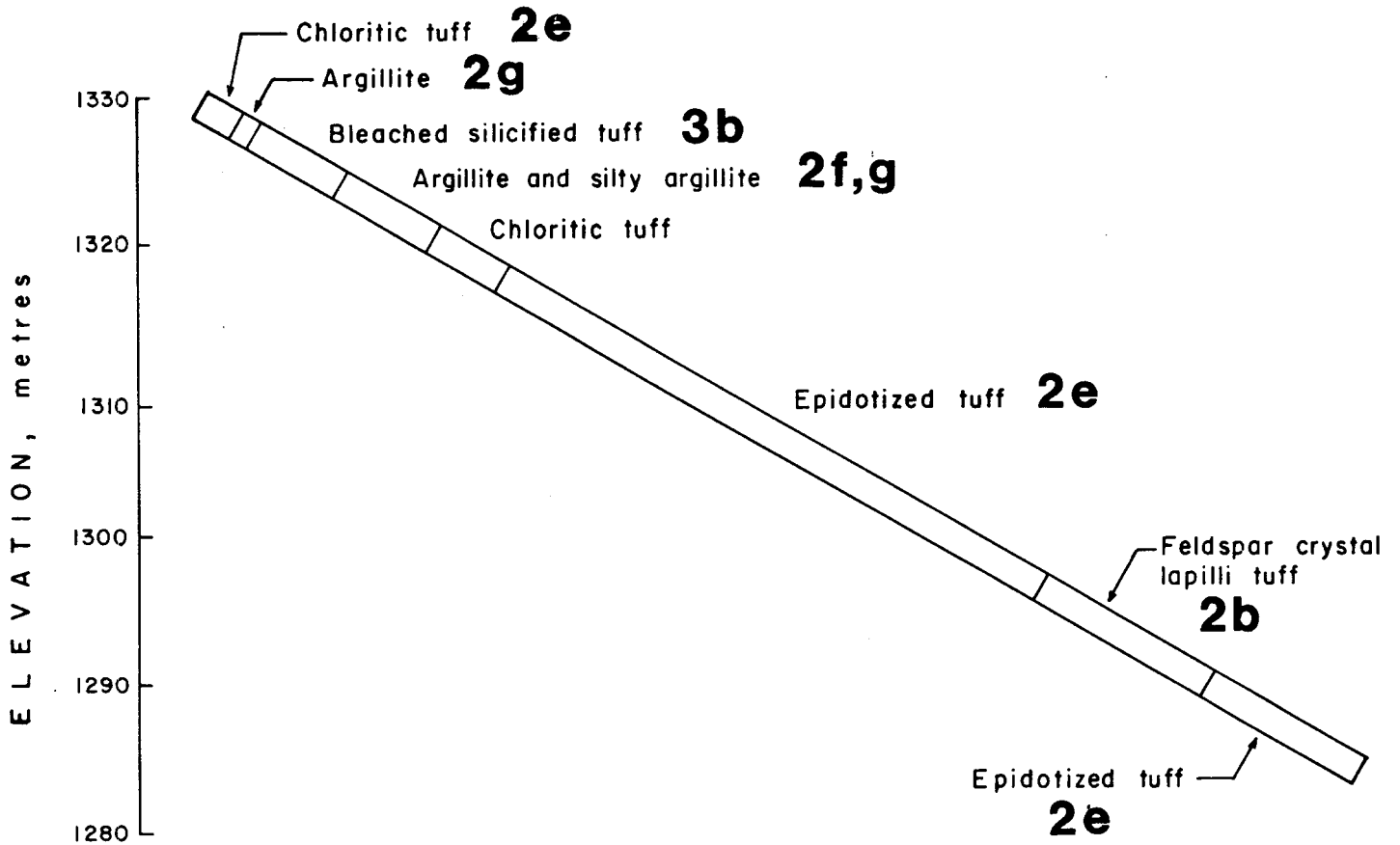
DRILL HOLE
S-9-80

PROJ. 140

WORK BY	DRAWN BY	DATE, Aug 1987
SC	VJG	
10 0 10 20		
SCALE IN METRES		1: 500

Figure:

DDH S-10-80



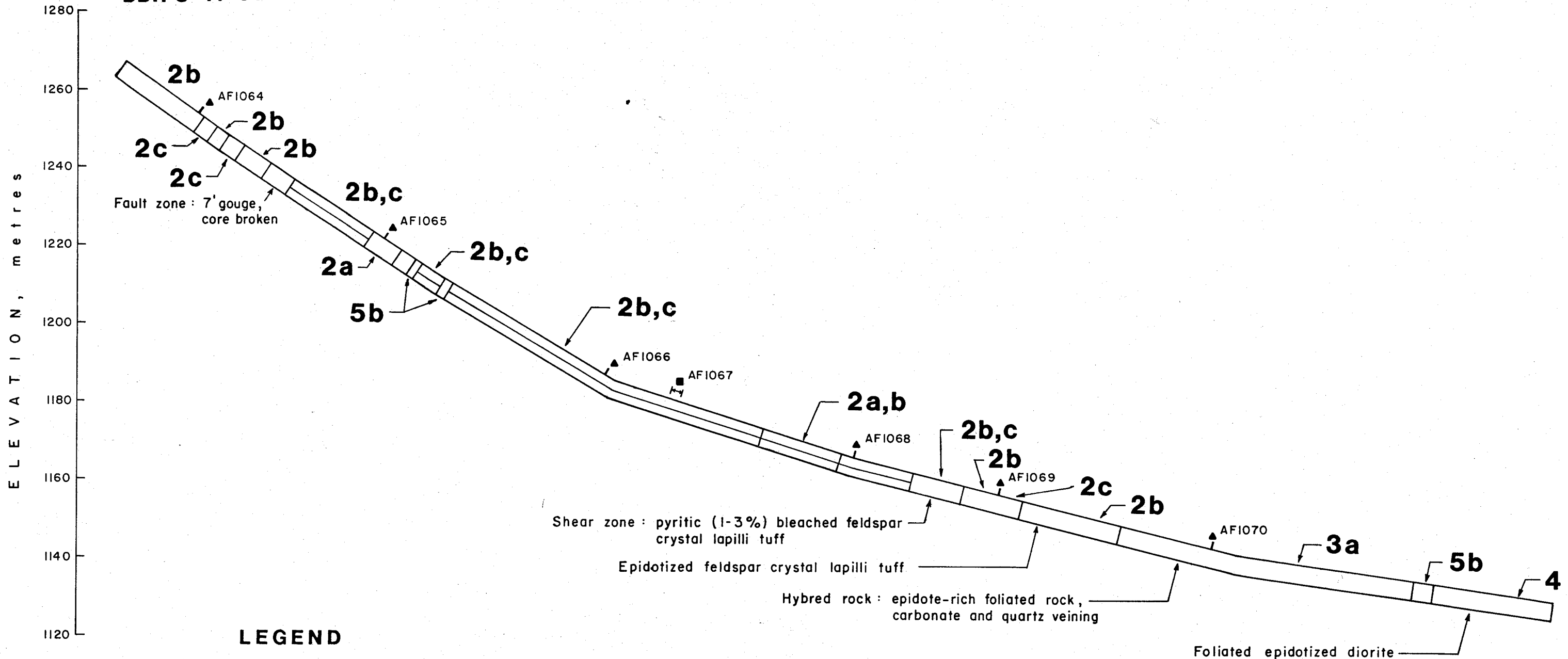
LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

FALCONBRIDGE LIMITED		
NORTHAIR OPTION		
DRILL HOLE		
S-10-80		
PROJ. 140		
WORK BY	DRAWN BY	DATE, Dec 1987
SC	VJG	
SCALE IN METRES 1 : 500		
Figure:		

DDH S-11-80



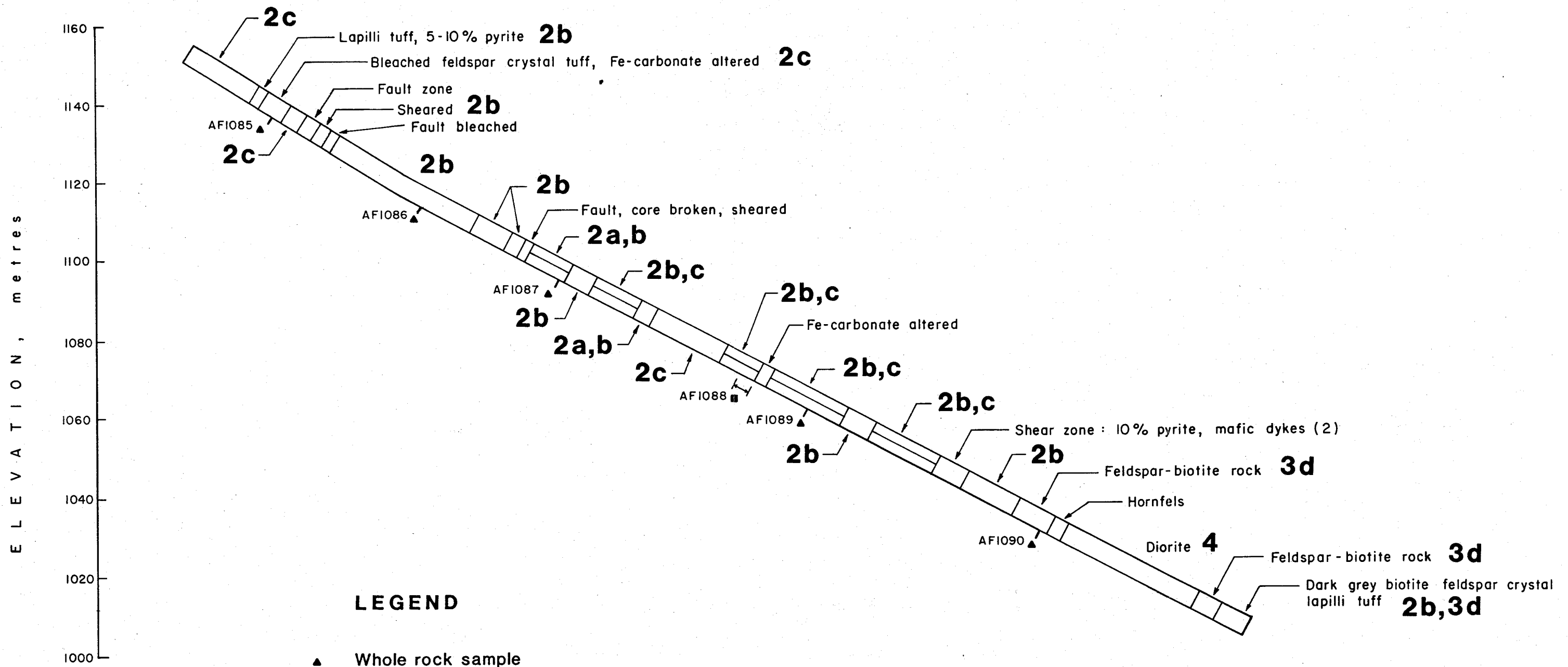
LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

FALCONBRIDGE LIMITED		
NORTHAIR OPTION		
DRILL HOLE		
S-11-80		
PROJ. 140		
WORK BY	DRAWN BY	DATE.
SC	VJG	
SCALE IN METRES 1 : 1000		
Figure:		

DDH S-12-80



LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

FALCONBRIDGE LIMITED

NORTHAIR OPTION

**DRILL HOLE
S-12-80**

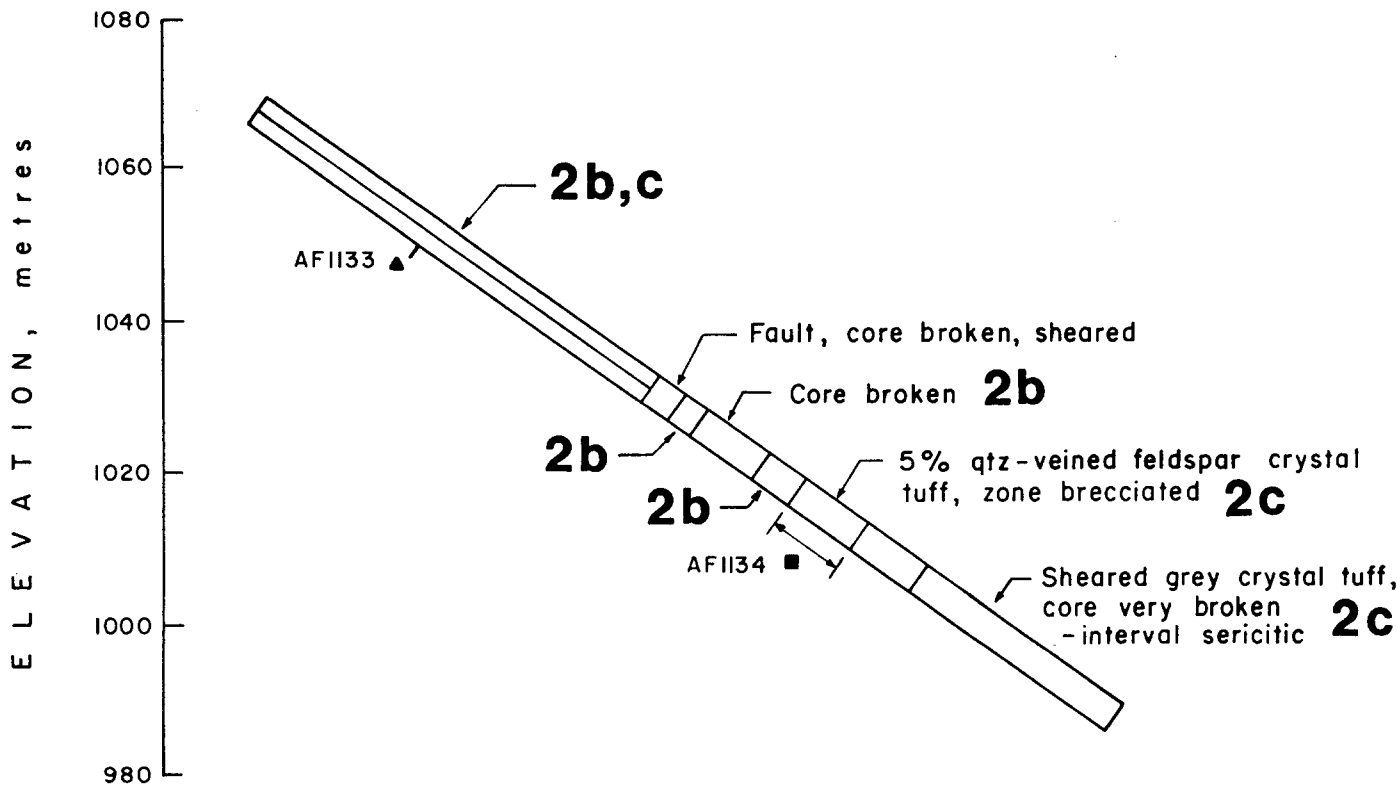
PROJ. 140

WORK BY SC	DRAWN BY VJG	DATE: Sept 1987
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10 0 10 20 30 40 50
SCALE IN METRES 1:1000

Figure:

DDH S-13-80



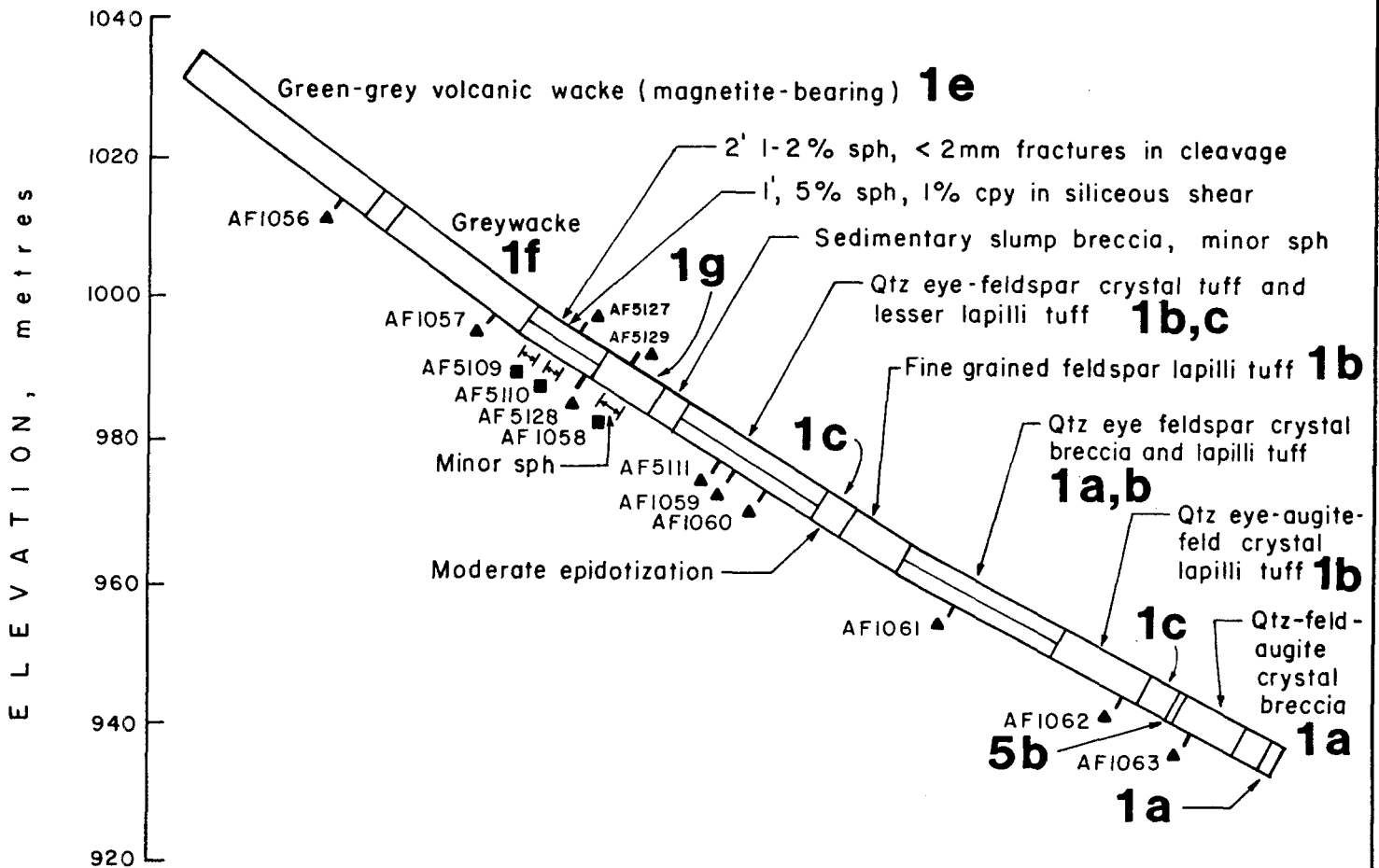
LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

FALCONBRIDGE LIMITED		
NORTHAIR OPTION		
DRILL HOLE		
S-13-80		
PROJ. 140		
WORK BY	DRAWN BY	DATE, Aug 1987
SCALE IN METRES 1 : 500		
Figure:		

DDH S-14-80



LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

FALCONBRIDGE LIMITED

NORTHAIR OPTION

DRILL HOLE
S-14-80

PROJ.

WORK BY

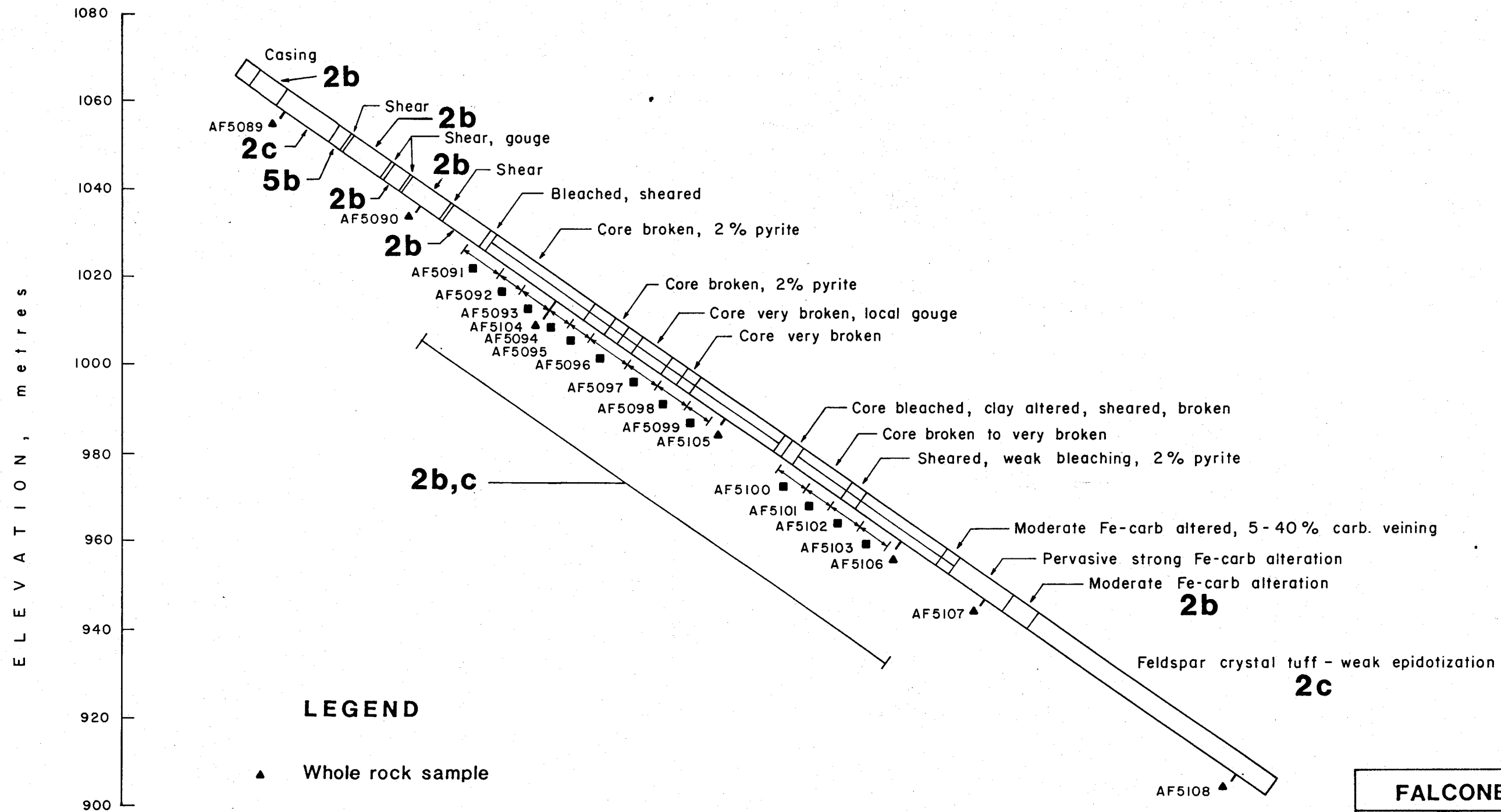
DRAWN BY

DATE

SCALE IN METRES

Figure:

DDH S-15-80



ELEVATION, metres

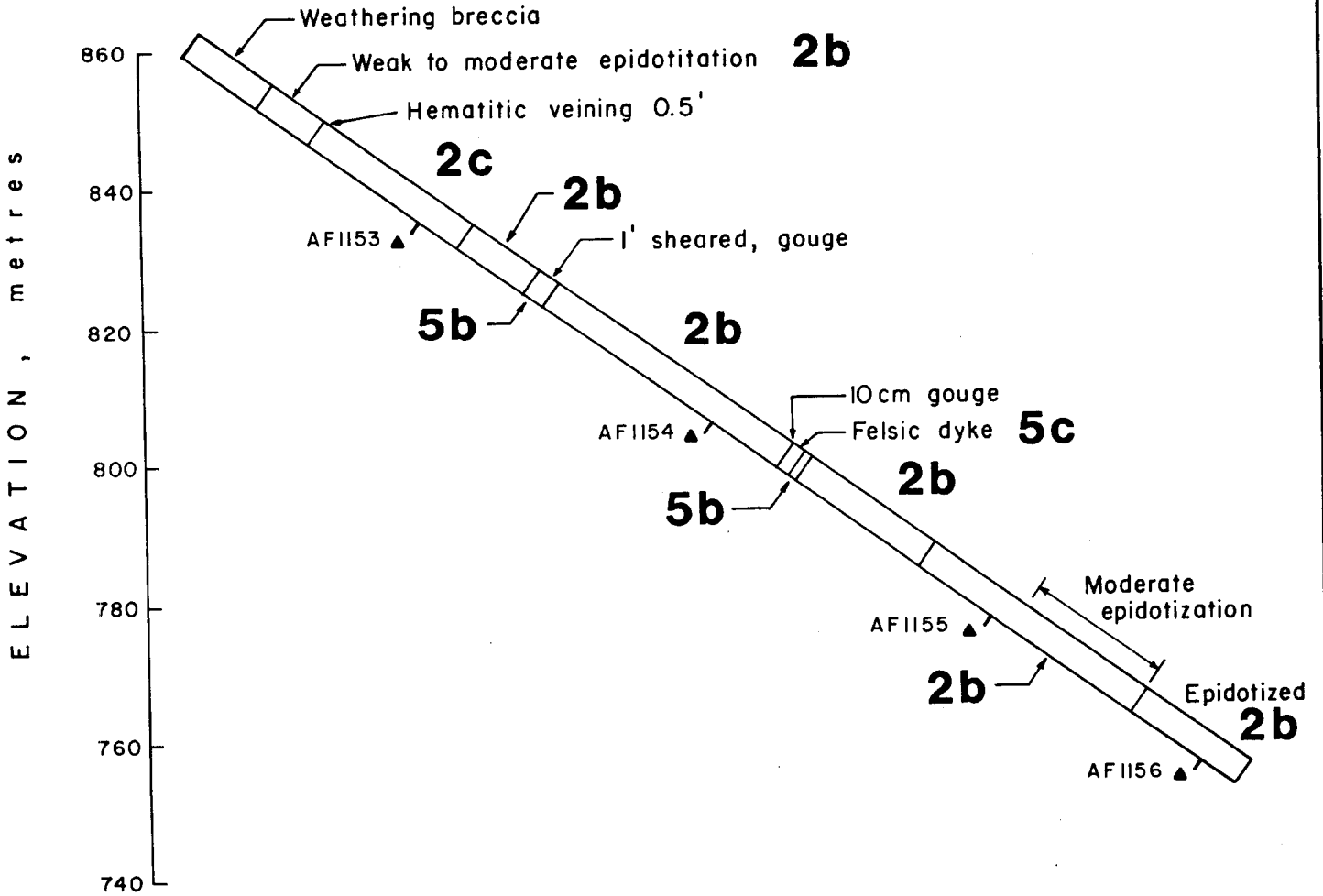
LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

FALCONBRIDGE LIMITED		
NORTHAIR OPTION		
DRILL HOLE		
S-15-80		
PROJ. 140		
WORK BY SC	DRAWN BY VJG	DATE: Sept 1987
SCALE IN METRES 1:1000		
Figure:		

DDH S-16-80



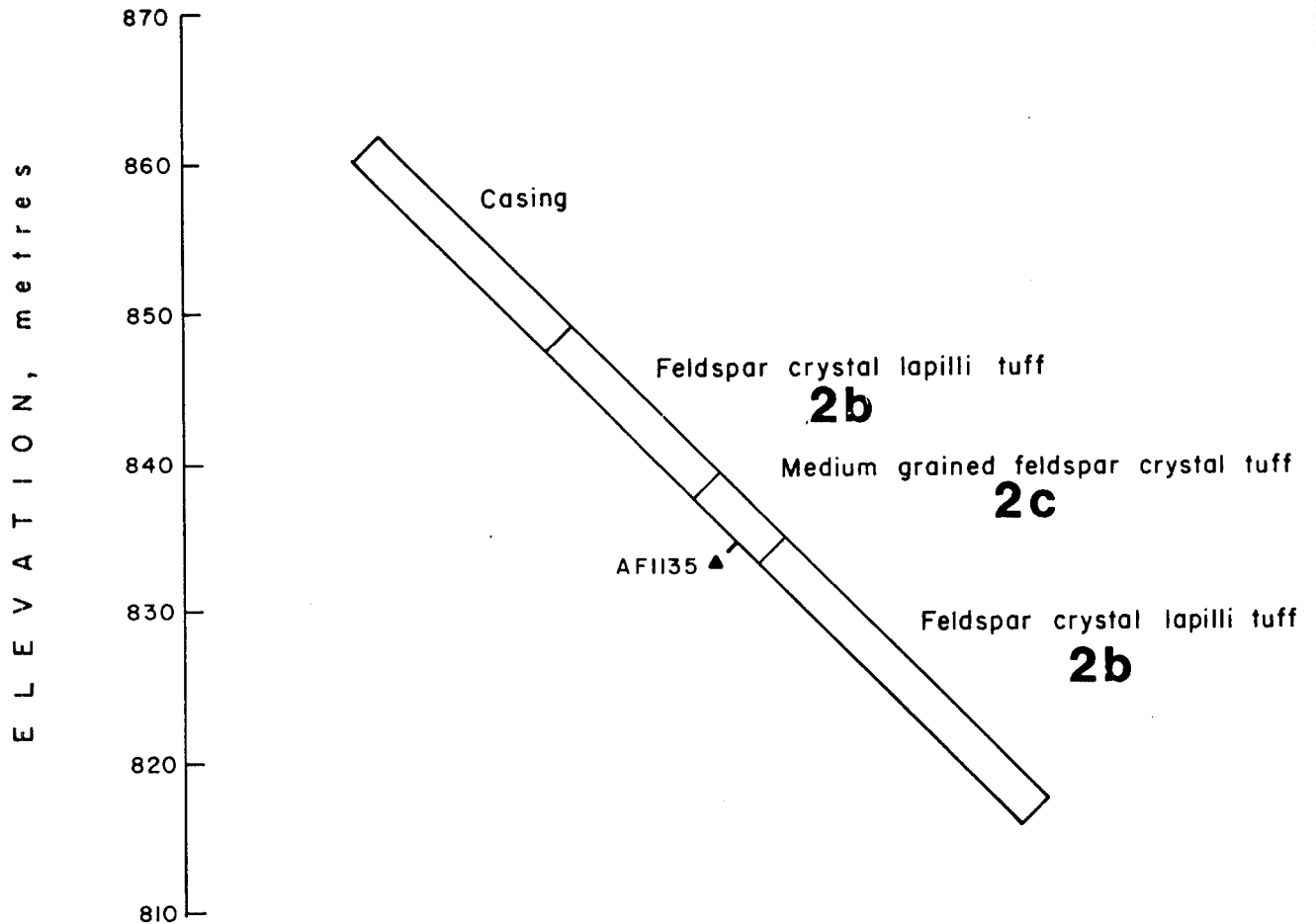
LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

FALCONBRIDGE LIMITED		
NORTH AIR OPTION		
DRILL HOLE		
S-16-80		
PROJ. 140		
WORK BY SC	DRAWN BY VJG	DATE: Aug 1987
<p>SCALE IN METRES 1 : 1000</p>		
Figure:		

DDH S-17-80



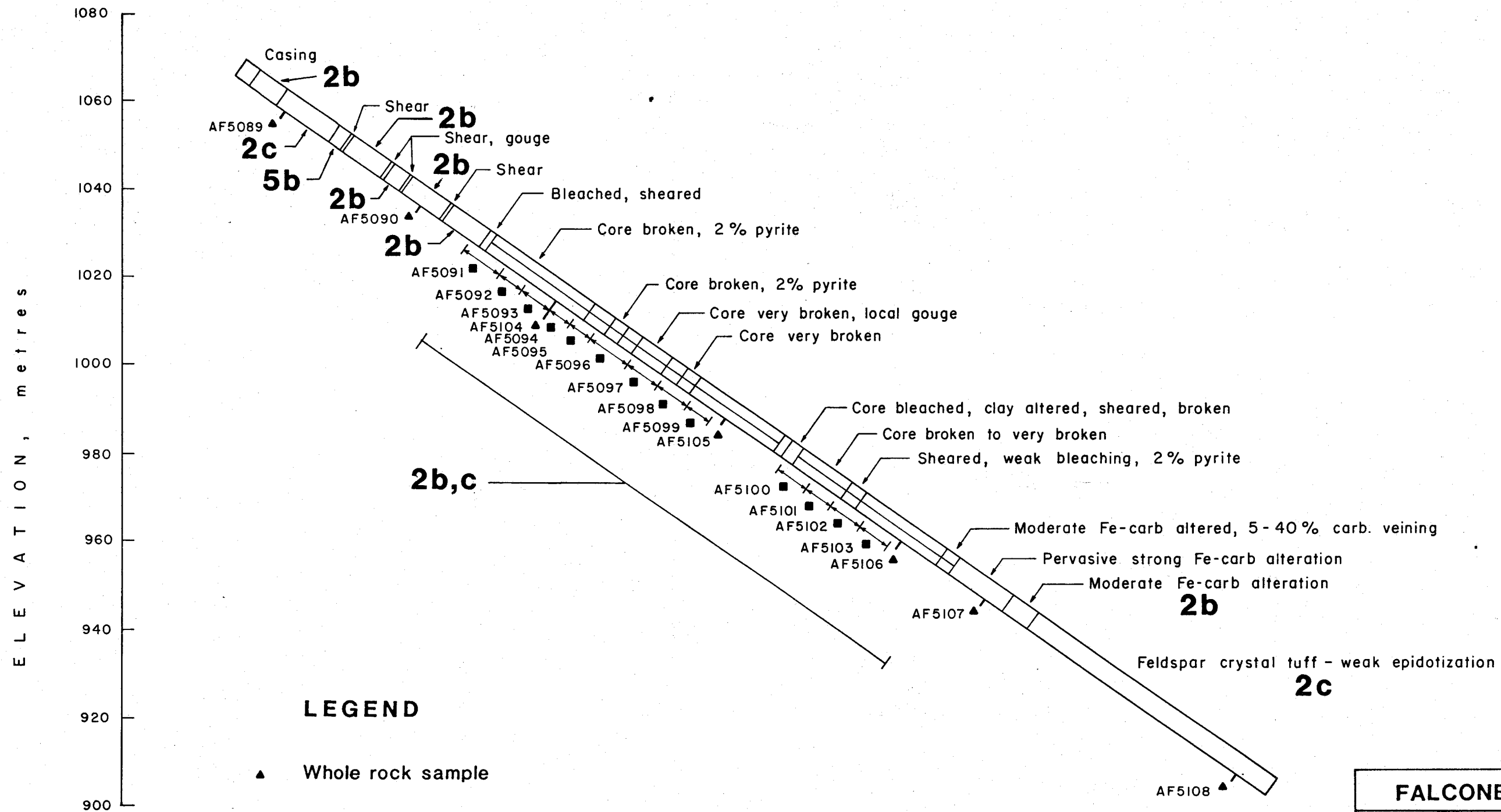
LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

FALCONBRIDGE LIMITED		
NORTHAIR OPTION		
DRILL HOLE		
S-17-80		
PROJ. 140		
WORK BY	DRAWN BY	DATE. Aug 1987
SC	VJG	
SCALE IN METRES 1 : 500		
Figure:		

DDH S-15-80



ELEVATION, metres

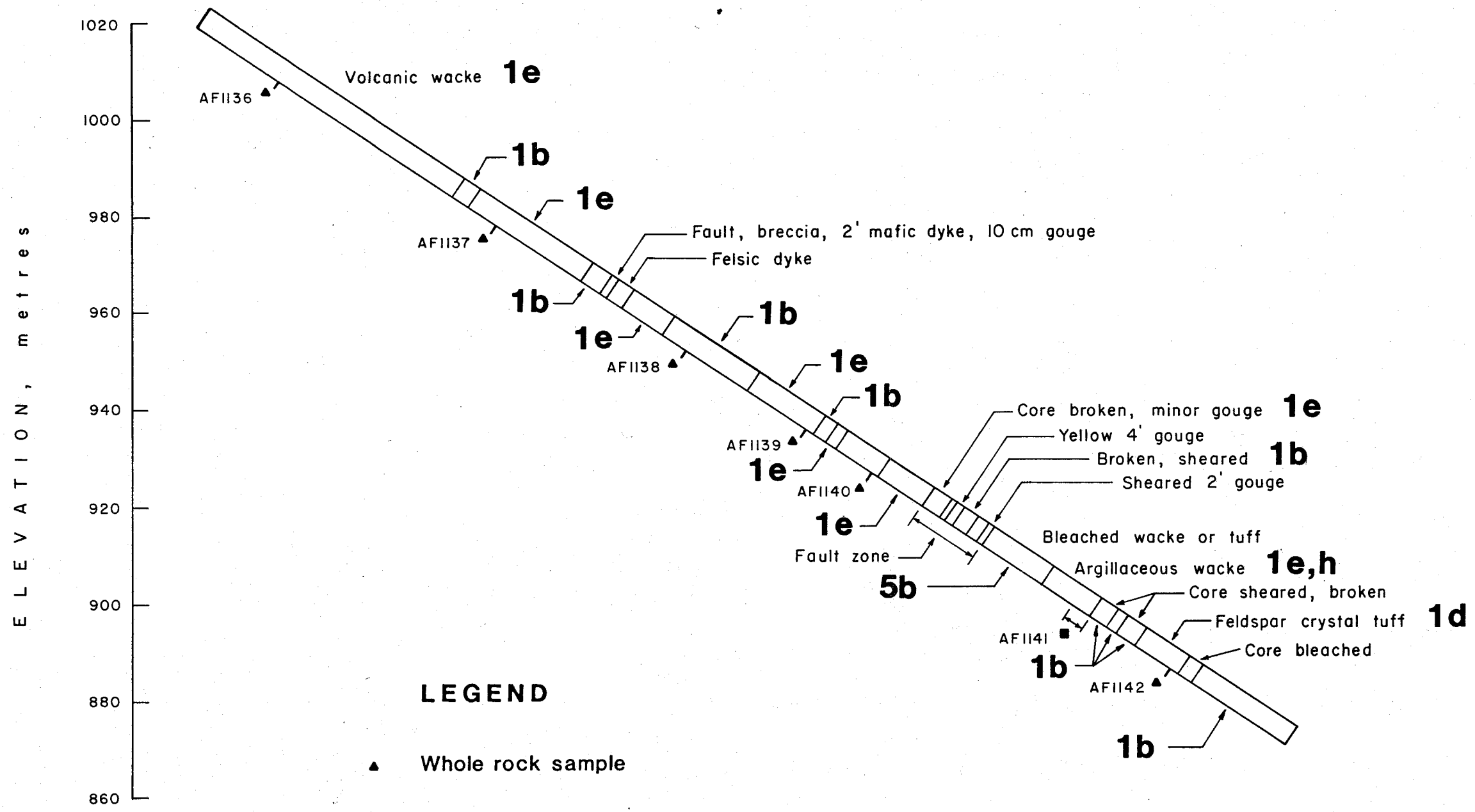
LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

FALCONBRIDGE LIMITED		
NORTHAIR OPTION		
DRILL HOLE		
S-15-80		
PROJ. 140		
WORK BY	DRAWN BY	DATE: Sept 1987
SC	VJG	
SCALE IN METRES		1:1000
Figure:		

DDH S-19-80



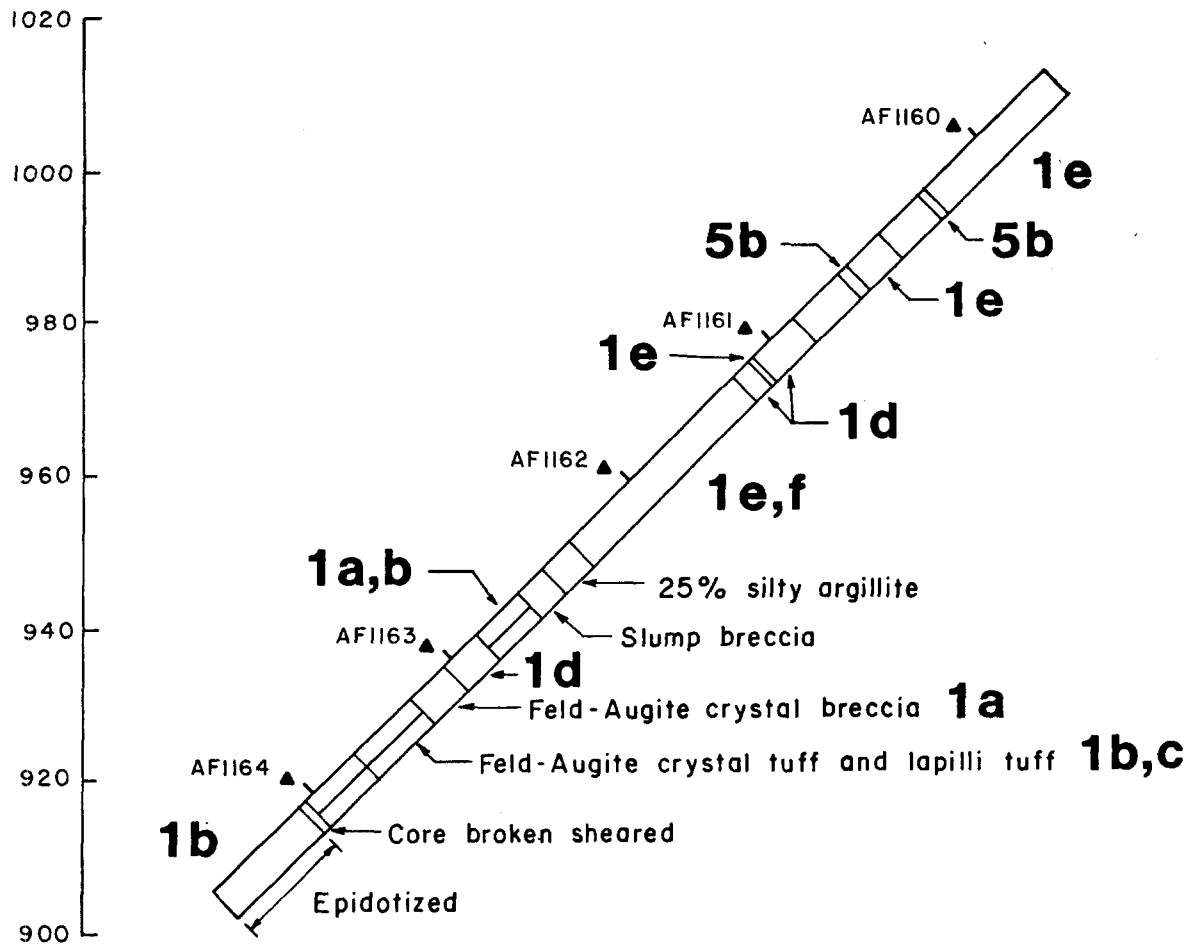
LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

FALCONBRIDGE LIMITED		
NORTHAIR OPTION		
DRILL HOLE		
S-19-80		
PROJ. 140		
WORK BY SC	DRAWN BY VJG	DATE, Sept 1987
<p>SCALE IN METRES 1:1000</p>		
Figure:		

DDH S-1-81



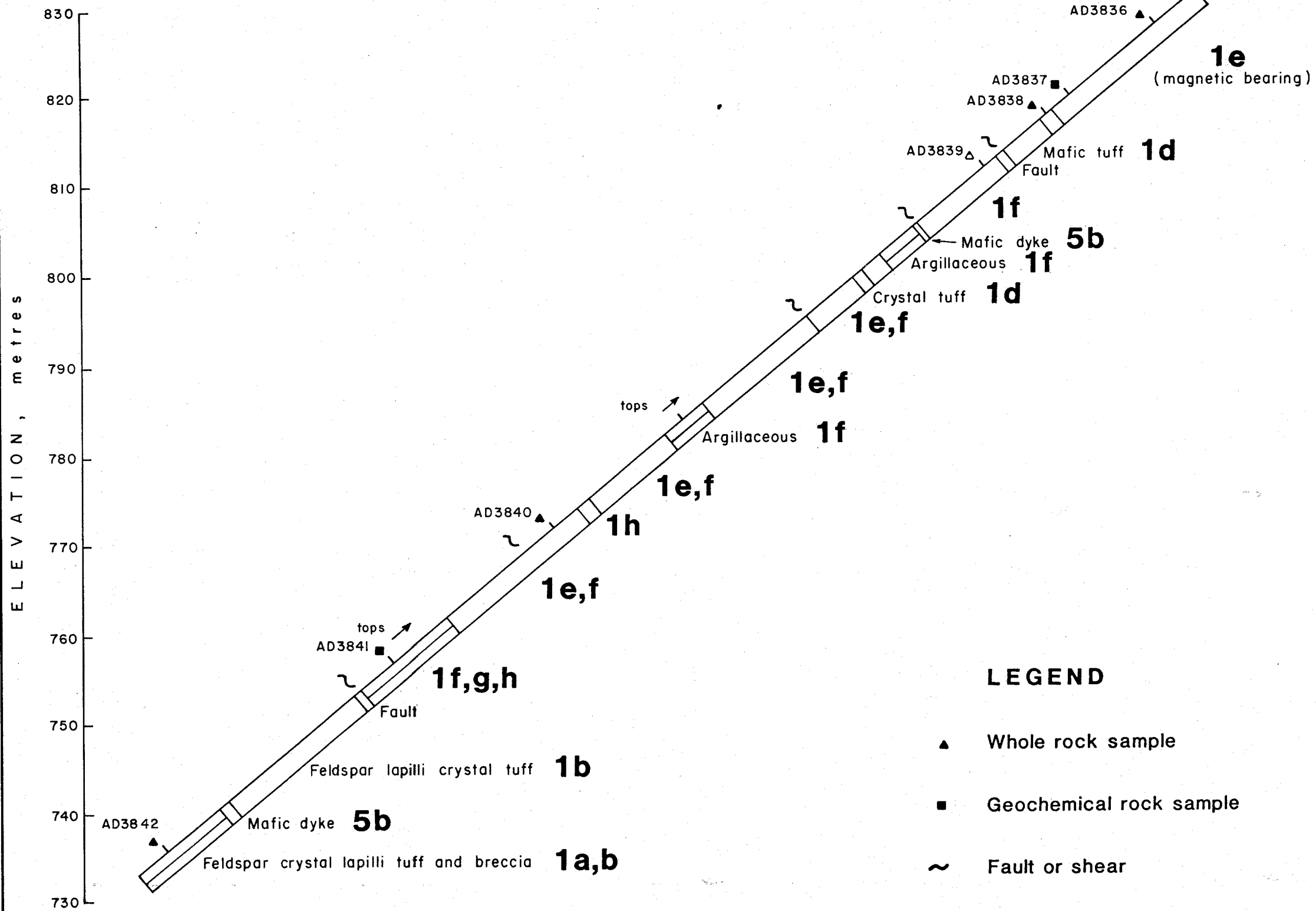
LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

FALCONBRIDGE LIMITED		
NORTHAIR OPTION		
DRILL HOLE		
S-1-81		
PROJ. 140		
WORK BY	DRAWN BY	DATE , Dec 1987
SC	VJG	
<small>SCALE IN METRES</small>		
Figure:		

DDH S-3-81



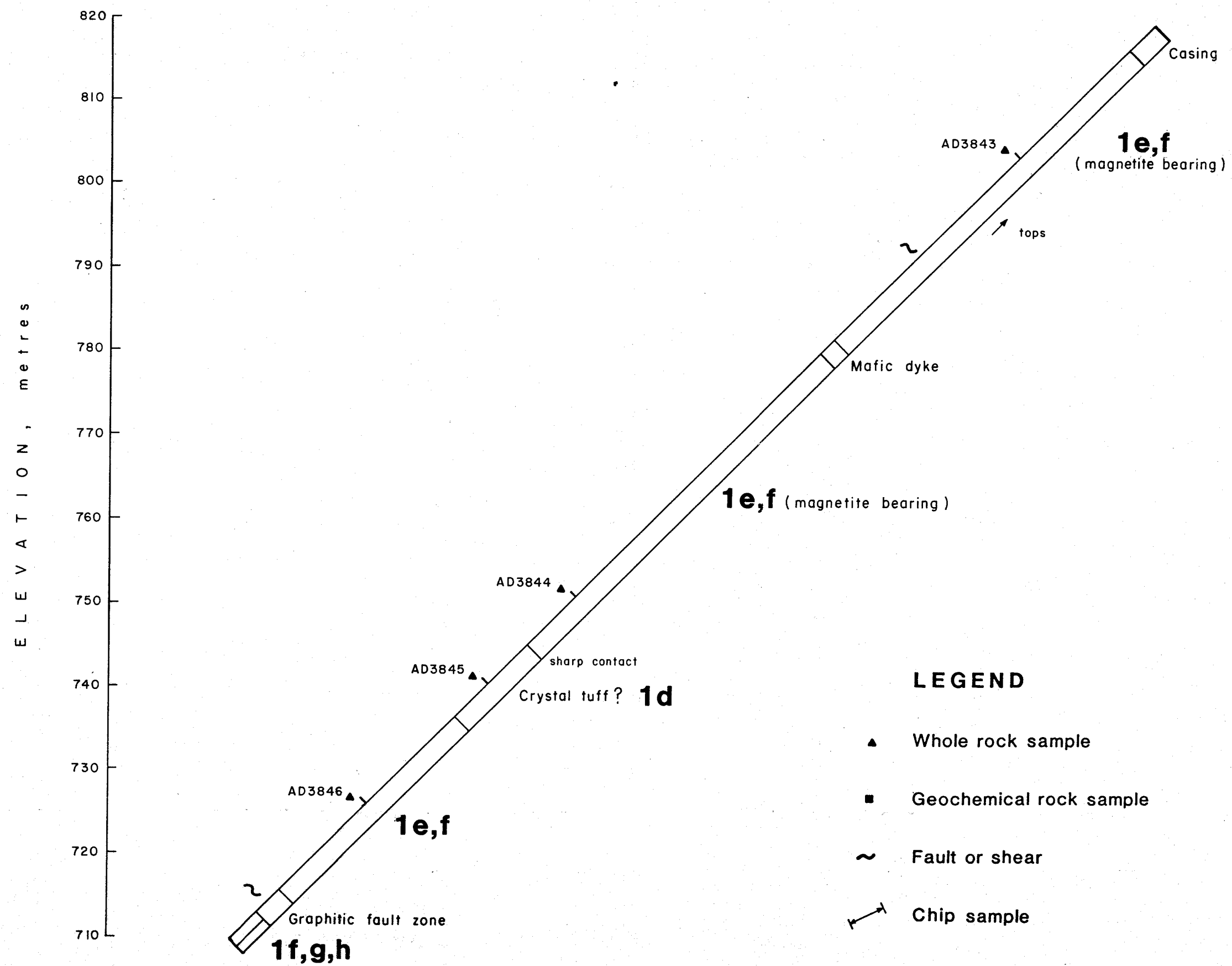
LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

FALCONBRIDGE LIMITED		
NORTHAIR OPTION		
DRILL HOLE		
S-3-81		
PROJ. 140		
WORK BY SC	DRAWN BY VJG	DATE: Aug 1987
<p>SCALE IN METRES 1:500</p>		
Figure:		

DDH S-4-81



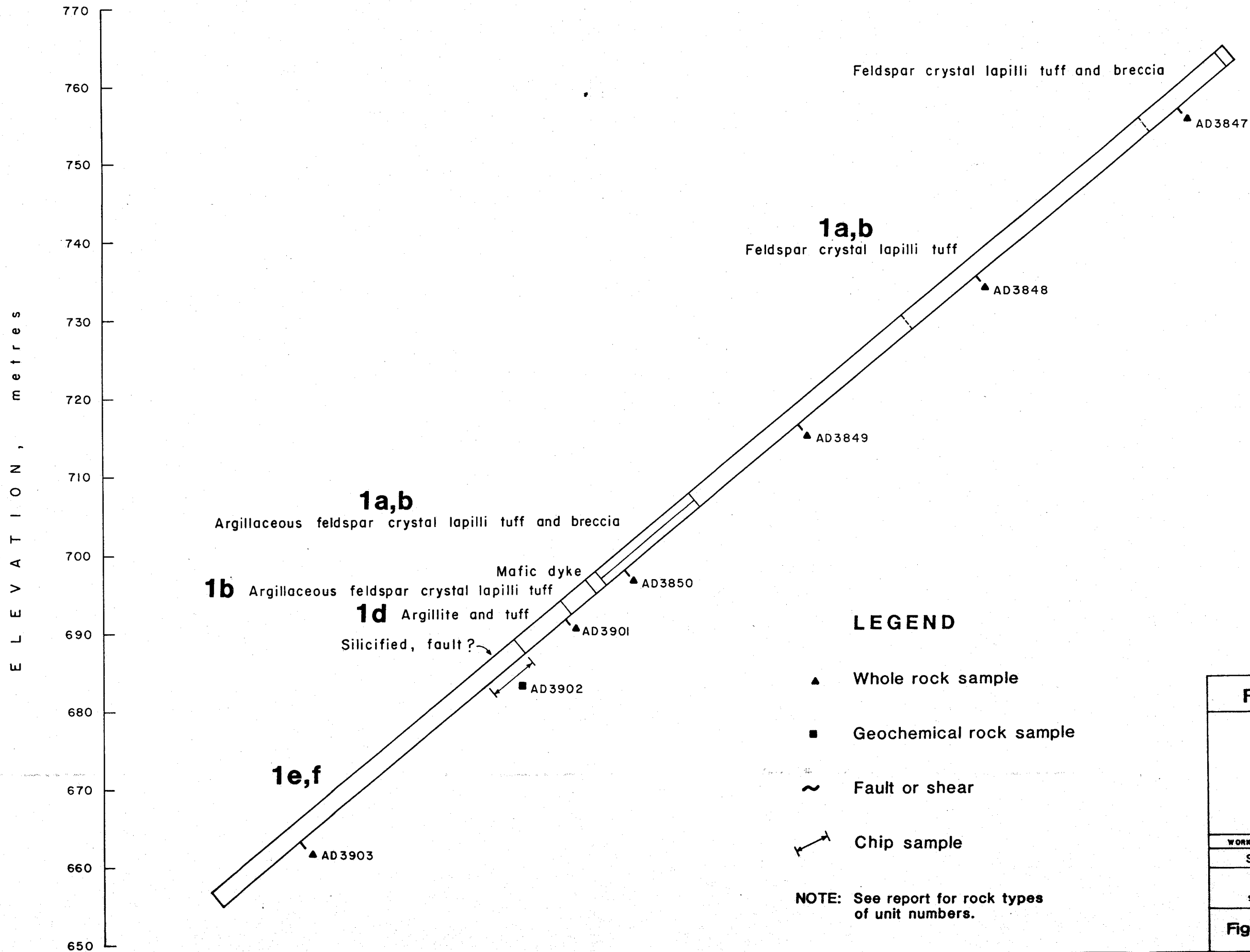
LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↔ Chip sample

NOTE: See report for rock types of unit numbers.

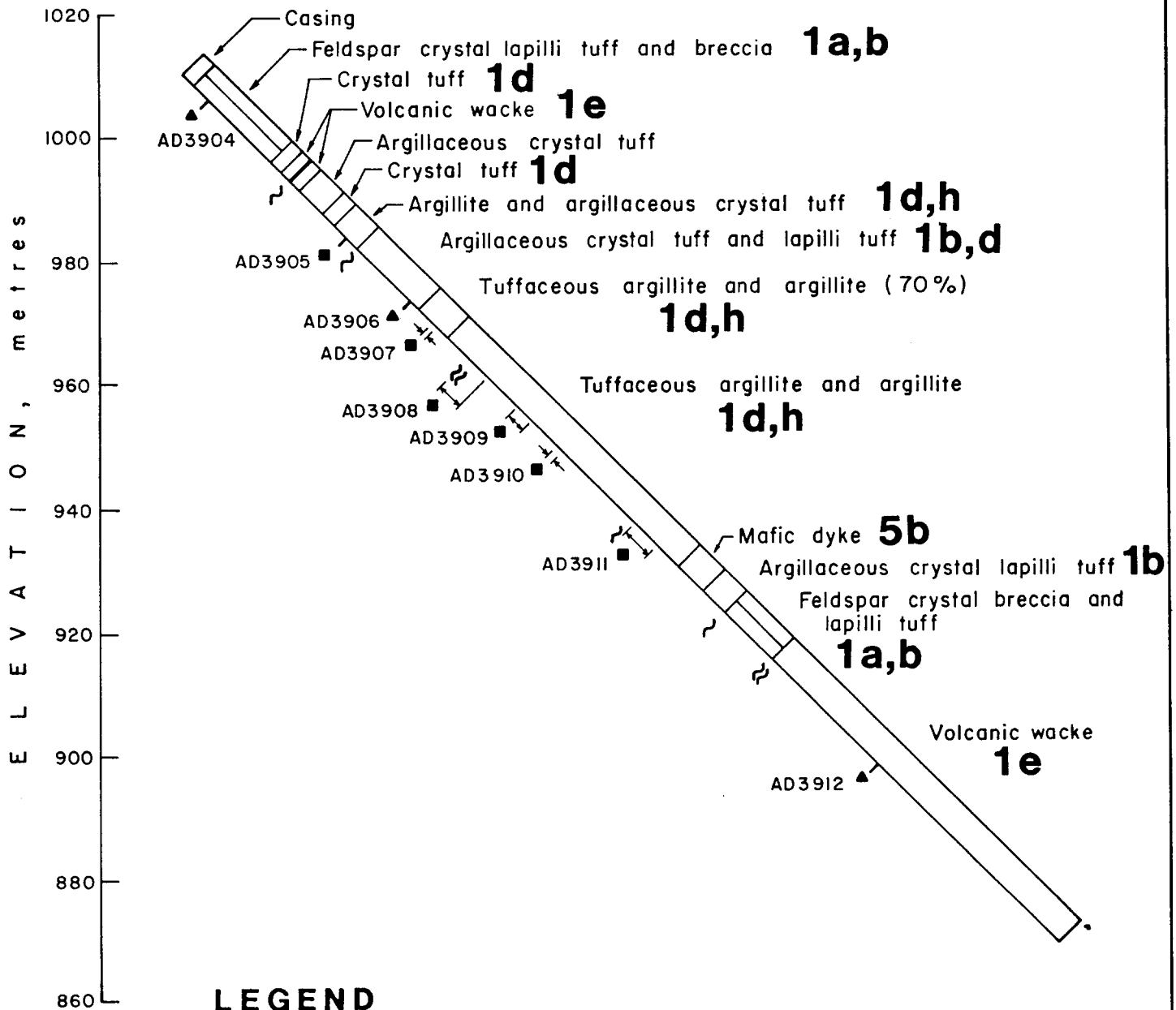
FALCONBRIDGE LIMITED		
NORTHAIR OPTION		
DRILL HOLE		
S-4-81		
PROJ. 140		
WORK BY	DRAWN BY	DATE
SC	VJG	Aug 1987
SCALE IN METRES		1 : 500
Figure:		

DDH S-5-81



FALCONBRIDGE LIMITED		
NORTHAIR OPTION		
DRILL HOLE		
S-5-81		
PROJ. 140		
WORK BY	DRAWN BY	DATE, Sept 1987
SC	VJG	
		1: 500
SCALE IN METRES		
Figure:		

DDH S-6-81



FALCONBRIDGE LIMITED

NORTHAIR OPTION

DRILL HOLE
S-6-81

PROJ. 140

WORK BY

DRAWN BY

DATE, Aug 1987

SC

V J G

10 0 10 20 30 40 50 m

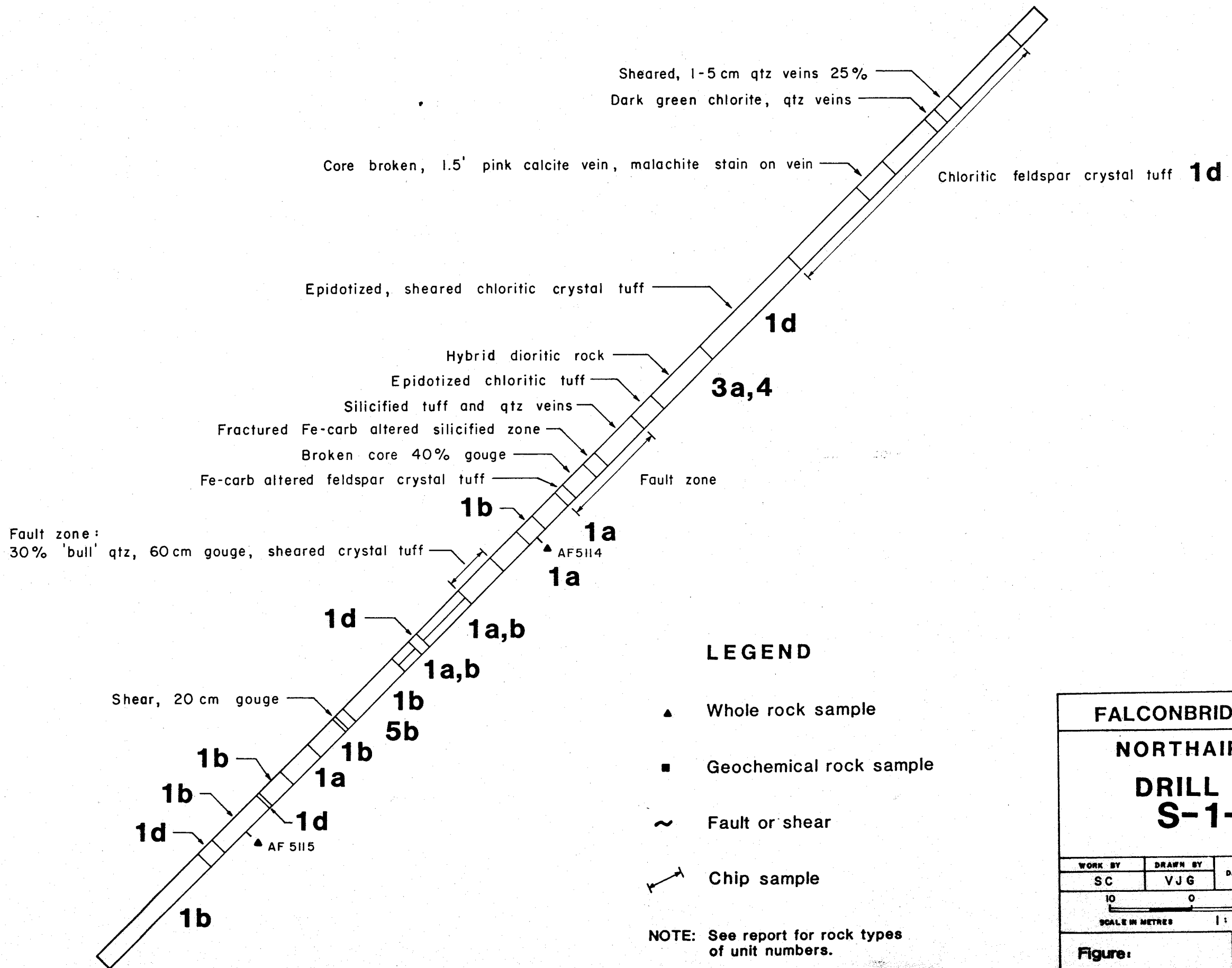
SCALE IN METRES

1 : 1000

Figure:

NOTE: See report for rock types of unit numbers.

DDH S-1-86



LEGEND

- ▲ Whole rock sample
- Geochemical rock sample
- ~ Fault or shear
- ↗ Chip sample

NOTE: See report for rock types of unit numbers.

FALCONBRIDGE LIMITED		
NORTHAIR OPTION		
DRILL HOLE		
S-1-86		
PROJ. 140		
WORK BY	DRAWN BY	DATE: Sept 1987
SC	VJG	
SCALE IN METRES		1: 500
Figure:		