

**ASSESSMENT REPORT**

**1991 PROGRAM**

**SIB 1-16, 20-39 CLAIMS**

**ESKAY CREEK REGION**

**SKEENA MINING DIVISION**

**BRITISH COLUMBIA**

**CANADA**

LOG NO: 92 05 06 RD.

SECTION:

N.T.S. 104B/9,10  
Latitude 56° 35' N  
Longitude 130° 29' W

FILE NO.

For

**AMERICAN FIBRE CORPORATION**

#701 - 475 Howe Street  
Vancouver, B.C.

and

**SILVER BUTTE RESOURCES**

#1201 - 900 West Hastings Street  
Vancouver, B.C.

Prepared By

**COPELAND REBAGLIATI & ASSOCIATES LTD**

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R.J. Haslinger, P.Eng.  
C.M. Rebagliati, P.Eng.

March 25, 1992

**VOLUME I**

**FILMED**

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**22,338**

**PART 1 OF 5**

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## INTRODUCTION

This report summarizes the exploration activities, geological features, nature and distribution of hydrothermal alteration and characteristics of mineralization on the SIB property. In 1991, sixty-four BQ thin wall diamond drill holes (91-49 to 112) comprising 6097.5 metres, were drilled on the SIB claims. The property was geologically mapped at 1:2000 scale and covered all 44.5 line km of cut grid. Drill logs including assays and geological plans and sections are included in this report. Compilation scale figures are also included to integrate the 1991 data with data collected during the 1989 and 1990 programs.

## LOCATION

The SIB property is located 80 km north of Stewart, British Columbia in the centre of the Iskut mining camp. Access is by fixed-wing aircraft from Smithers or Terrace to gravel-surfaced airfields at the Snip mine at Bronson Creek or at Bob Quinn Lake on the Stewart-Cassiar highway #37 (Figure 1). From these airfields, the distance to the claims is approximately 40 km. With the impending development of the Eskay deposit on the adjacent claim block, it is anticipated that by late 1992 road access will be extended to within 4 km of the SIB claims.

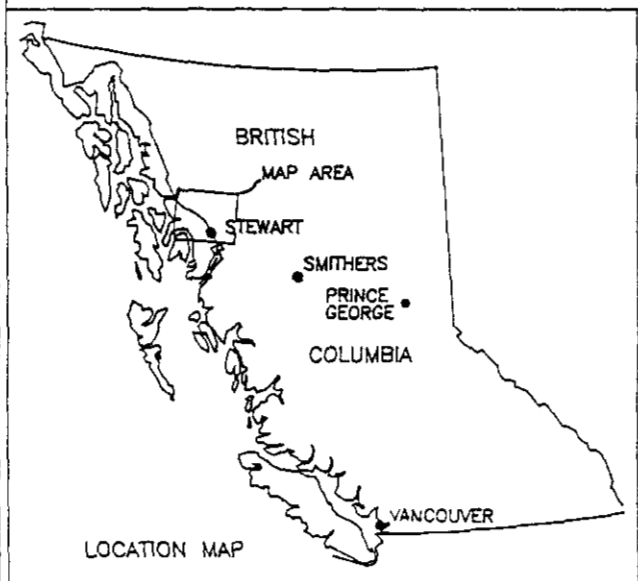
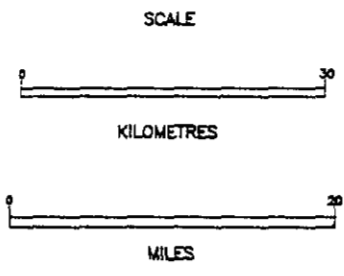
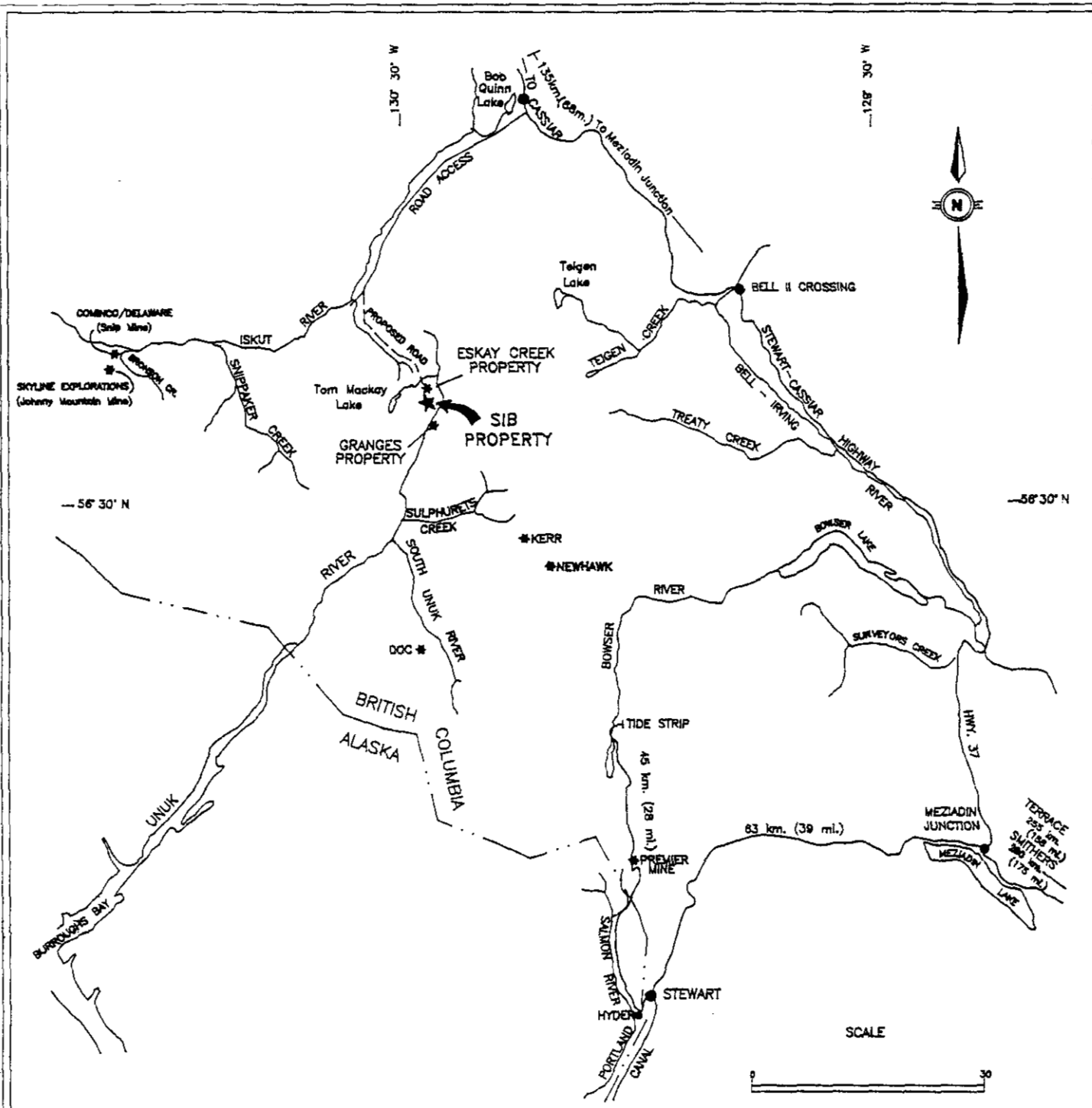
## CLAIM DATA

The SIB claims comprise two separately staked, overlapping claim blocks (Figures 2 and 3). The ownership of the claims are subject to an agreement between American Fibre Corporation and Silver Butte Resources Ltd.

The SIB claims are situated in the Skeena Mining Division and are held jointly by American Fibre Corporation and Silver Butte Resources Ltd. Essential claim data are as follows:

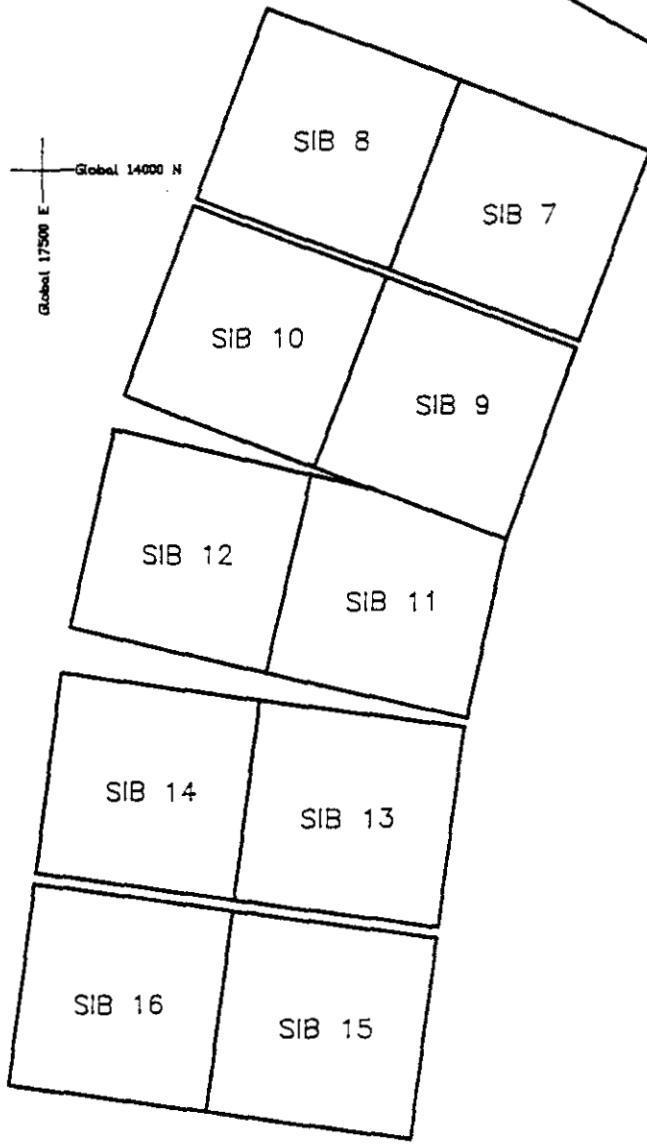
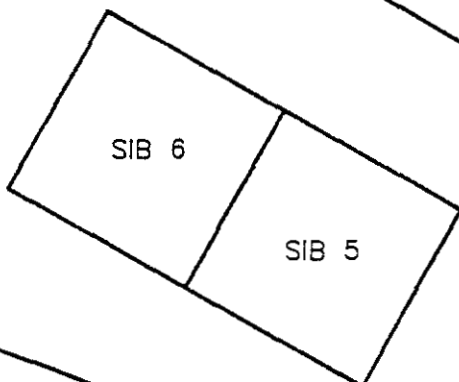
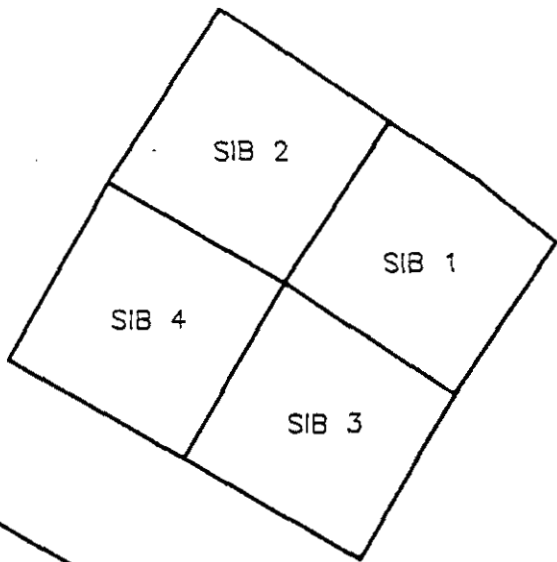
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SIB 3	37225	1	31 May 2001
SIB 4	37226	1	31 May 2001
SIB 5	37227	1	31 May 2001
SIB 6	37228	1	31 May 2001
SIB 7	37229	1	31 May 2001
SIB 8	37230	1	31 May 2001
SIB 9	37231	1	31 May 2001
SIB 10	37232	1	31 May 2001
SIB 11	37233	1	31 May 2001
SIB 12	37234	1	31 May 2001
SIB 13	37235	1	31 May 2001
SIB 14	37236	1	31 May 2001
SIB 15	37237	1	31 May 2001
SIB 16	37238	1	31 May 2001
SIB 20	7650	1	29 June 1995
SIB 21	7651	1	29 June 1995
SIB 22	7652	1	29 June 1995
SIB 23	7653	1	29 June 1995
SIB 24	7654	1	29 June 2000
SIB 25	7655	1	29 June 2000
SIB 26	7656	1	29 June 2000
SIB 27	7657	1	29 June 2000
SIB 28	7658	1	29 June 2000
SIB 29	7659	1	29 June 2000
SIB 30	7660	1	29 June 2000
SIB 31	7661	1	29 June 2000
SIB 32	7662	1	29 June 2000
SIB 33	7663	1	29 June 2000
SIB 34	7664	1	29 June 2000
SIB 35	7665	1	29 June 2000
SIB 36	7666	1	29 June 2000
SIB 37	7667	1	29 June 2000
SIB 38	7668	1	30 June 2000
SIB 39	7669	1	30 June 2000

\* Expiry date as of March 25, 1992



SILVER BUTTE RESOURCES LTD.  
 AMERICAN FIBRE CORPORATION  
 COPELAND REBAGLIATI & ASSOCIATES LTD.  
 SIB PROPERTY  
 SKEENA M.D., B.C.  
 LOCATION MAP

SCALE:	AS SHOWN	DRAWN BY:	ProComp GeoDraft Ltd.	FILE:	SIBAREA.DWG
DATE:	JAN. 1992	XYZ:	1048/9W,10E	PAGE:	1



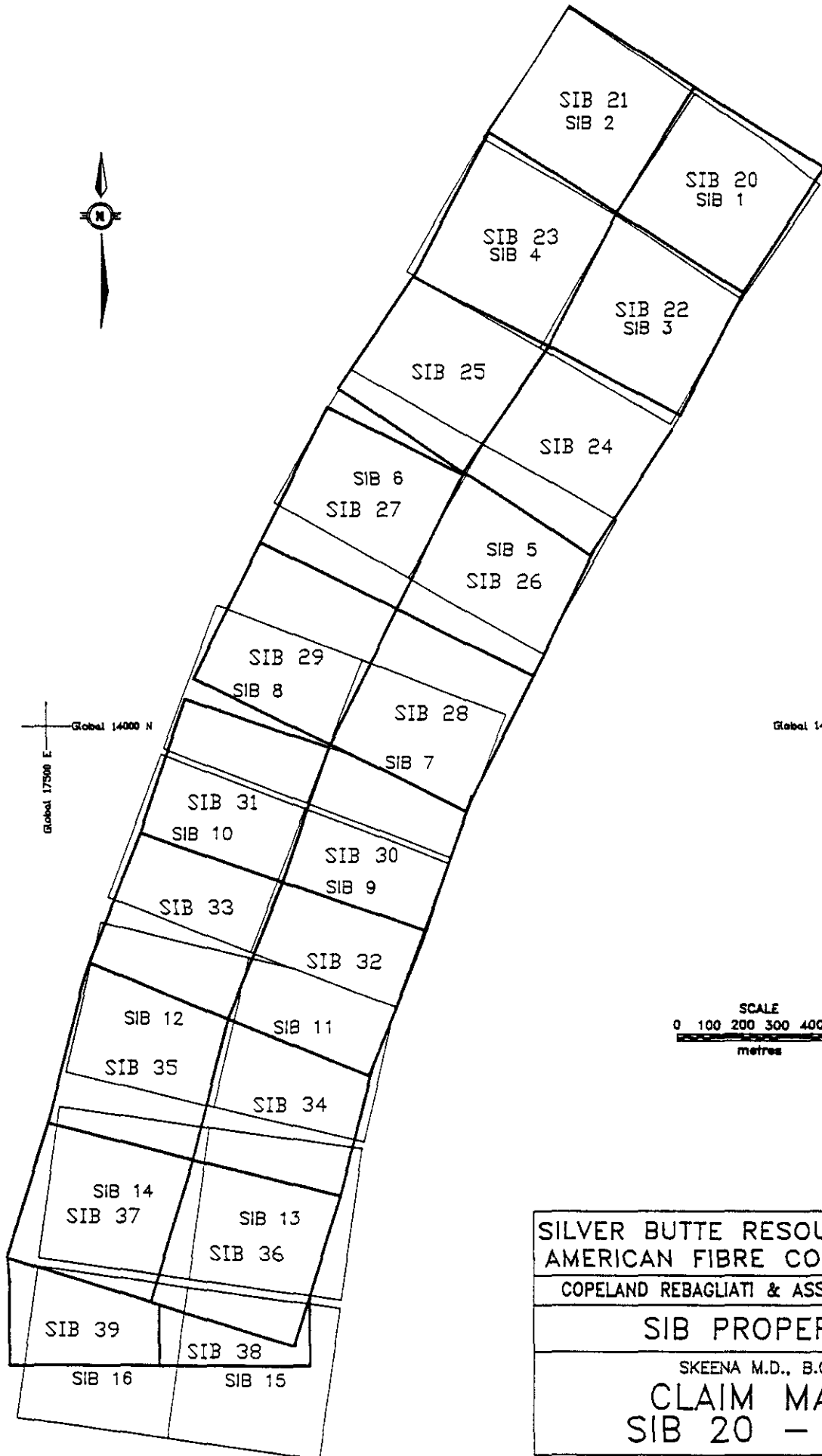
Global 17500 E  
Global 14000 N

Global 14000 N  
Global 20000 E

SCALE  
0 100 200 300 400 500  
metres

SILVER BUTTE RESOURCES LTD. AMERICAN FIBRE CORPORATION COPELAND REBAGLIATI & ASSOCIATES LTD.		
SIB PROPERTY		
SKEENA M.D., B.C.		
CLAIM MAP SIB 1 - 16		
SCALE: AS SHOWN	DRAWN BY: ProComp GeoDraft Ltd.	FILE: CLAIM116.DWG
DATE: FEB. 1992	DATE: 104B/9W.10E	PAGE: 2





Global 14000 N  
Global 20000 E

SCALE  
0 100 200 300 400 500  
metres

SILVER BUTTE RESOURCES LTD.  
AMERICAN FIBRE CORPORATION  
COPELAND REBAGLIATI & ASSOCIATES LTD.  
SIB PROPERTY  
SKEENA M.D., B.C.  
CLAIM MAP  
SIB 20 - 39

SCALE: AS SHOWN	DRAWN BY: ProComp Geodraft LTD.	FILE: CLM2039.DWG
DATE: FEB. 1992	DATE:	PAGE: 3

**EXPLORATION**

Exploration in the claim area began in the 1930s and has continued intermittently to the present. In 1989, 1990 and 1991 Copeland Rebagliati & Associates Ltd. (and its predecessor company Coastal Mountain Engineering & Management Ltd.) conducted exploration on the SIB claims on behalf of American Fibre Corporation and Silver Butte Resources Ltd. Exploration techniques involved the use of a combination of detailed geological, geochemical and geophysical geotechnical surveys to systematically explore for syngenetic massive sulphide deposits and epigenetic stockwork or vein deposits carrying high concentrations of gold and silver. Data from these surveys were compiled to formulate geological ore deposit models which were used to select prospective drill targets.

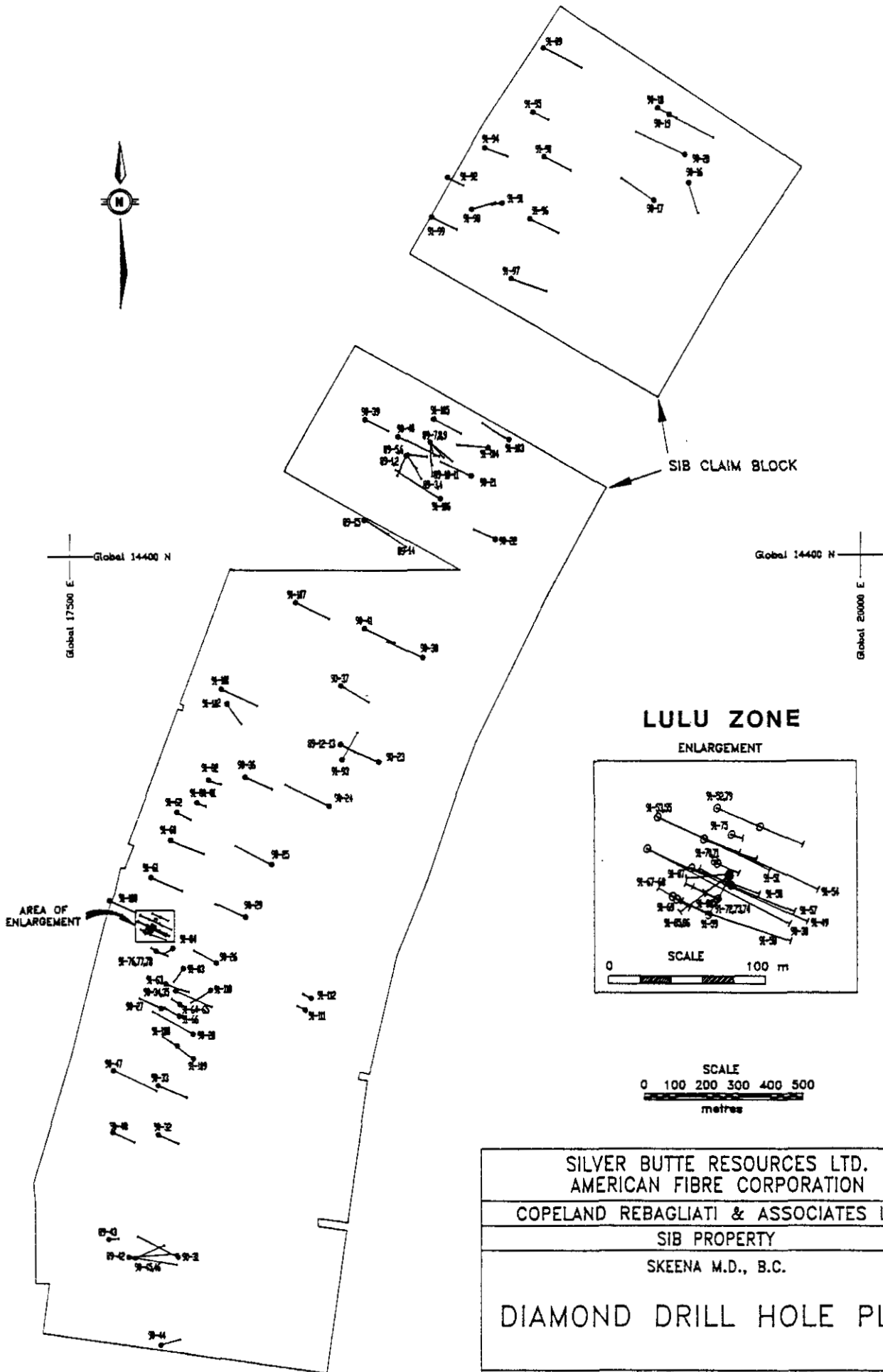
Exploration activities during the 1989 - 1991 period are summarized as follows:

**SUMMARY OF EXPLORATION ACTIVITIES**

<u>Activity</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>Total</u>
Line Cutting	37.4	44.5	-	81.9
Soil Samples	1,354	1,080	27	2,461
Rock Samples	365	315	129	809
Heavy Mineral Samples	-	169	-	169
Magnetic Survey	-	42.6	-	42.6 km
VLF-EM Survey	-	42.6	-	42.6 km
Induced Polarization	3.7	36.4	-	40.1 km
Geology (scale)	260 (1:5000)	400 (1:5000)	400 (1:2000)}	1,060 ha
Drill Holes	15	26	64	105 holes
Drill Metreage	1,840.0	3,981.9	6,097.5	11,919.4 m
Third Party Drill Holes	2	5	-	7 holes
Third Party Drill Metreage	268.0	760.2	-	1,028.2 m
Core logging	1,840.0	5,010.1	19,045.1	25,895.2m

A diamond drill hole plan and geochemical and geophysical data are compiled on Figures 4, 4a, 4b, 4c, 5, 6, 7 and 8. Analytical

procedures for drill core analyses are given in Appendix A and the drill logs and analytical results for the 1991 drill holes are given in Appendix B.

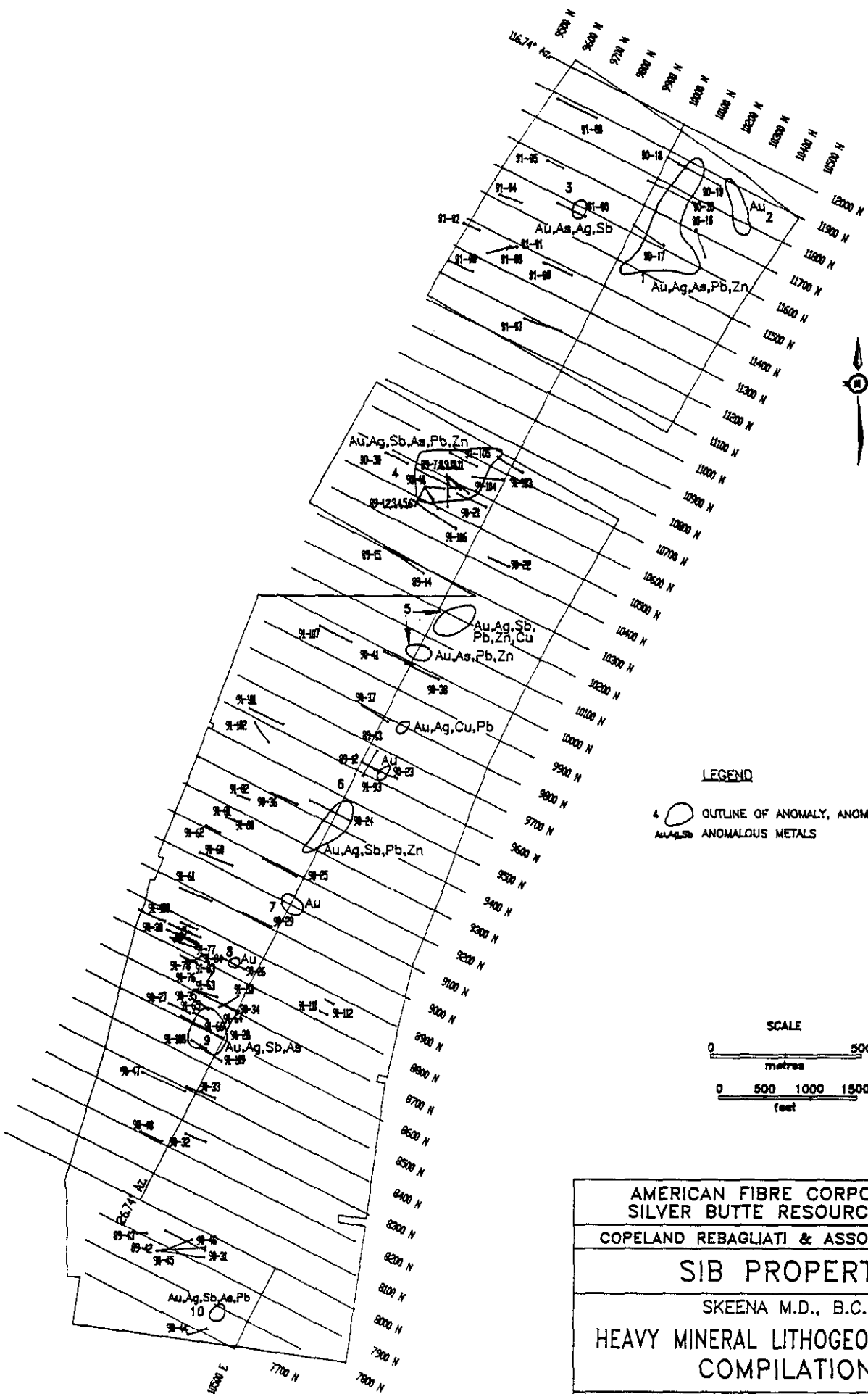


SILVER BUTTE RESOURCES LTD.  
AMERICAN FIBRE CORPORATION  
COPELAND REBAGLIATI & ASSOCIATES LTD.  
SIB PROPERTY  
SKEENA M.D., B.C.  
DIAMOND DRILL HOLE PLAN

SCALE :	AS SHOWN	DRAWN BY :	ProComp GeoDraft Ltd.	FILE :	
DATE :	JAN. 1992	REVISED :		FIGURE :	4

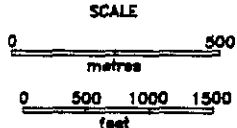






**LEGEND**

- OUTLINE OF ANOMALY, ANOMALY IDENTIFIER
- Au, Ag, Sb ANOMALOUS METALS



AMERICAN FIBRE CORPORATION  
 SILVER BUTTE RESOURCES LTD.  
 COPELAND REBAGLIATI & ASSOCIATES LTD.  
**SIB PROPERTY**  
 SKEENA M.D., B.C.  
 HEAVY MINERAL LITHOGEOCHEMISTRY  
 COMPILATION

SCALE:	AS SHOWN	DRAWN BY:	ProComp GeoDraft Ltd.	FILE:	HMCOM.DWG
DATE:	FEB. 1992	BY:	1048/GW,10E	PAGE:	7





## REGIONAL GEOLOGY

The property overlies major contacts between the Middle to Lower Jurassic Salmon River - Mount Dilworth - Betty Creek formations (Figure 9). These Middle Jurassic rocks are host to several important mineral deposits in the Iskut district. The upper contact of the felsic Mount Dilworth formation with the Salmon River formation is the approximate stratigraphic interval which hosts the multi-million ounce Eskay Creek 21B Zone stratiform massive sulphide deposit and the epigenetic 21A Zone deposit. This time-stratigraphic interval strikes across much of the SIB claim block (Figure 10).

## PROPERTY GEOLOGY

On the SIB claims sulphidic mudstones, and lesser black cherts, are developed at or near the upper contact of the Mount Dilworth formation with the Salmon River formation (Figures 11 and 12). These rocks are often well-bedded sulphidic turbidites. Their lateral equivalents are host to sulphate-sulphide-gold-silver mineralization which forms the Lulu mineralized zone on the SIB Claims.

A thin package of epiclastic and volcanoclastic sediments forms at the contact between the felsic rocks of the Mount Dilworth formation and the intermediate pyroclastic and flow rocks of the underlying Betty Creek formation. On the property scale (Figures 13 to 15) these epiclastic and volcanoclastic rocks are mapped as the MacKay sediments.

Supracrustal rocks are north-northeast striking, and most often moderate to steep west dipping (Figures 16 to 23). Changes in dip

direction define several small scale fold closures. Fold structures have plunges which gently rotate through modest northeast to southwest directions.

The Coulter Creek Thrust was initiated contemporaneously with folding of the supracrustal rocks. This thrust is a north striking west verging thrust which places the older Mount Dilworth formation on top of the younger Salmon River formation. The trace of the thrust is mapped across the southwestern third of the claim group.

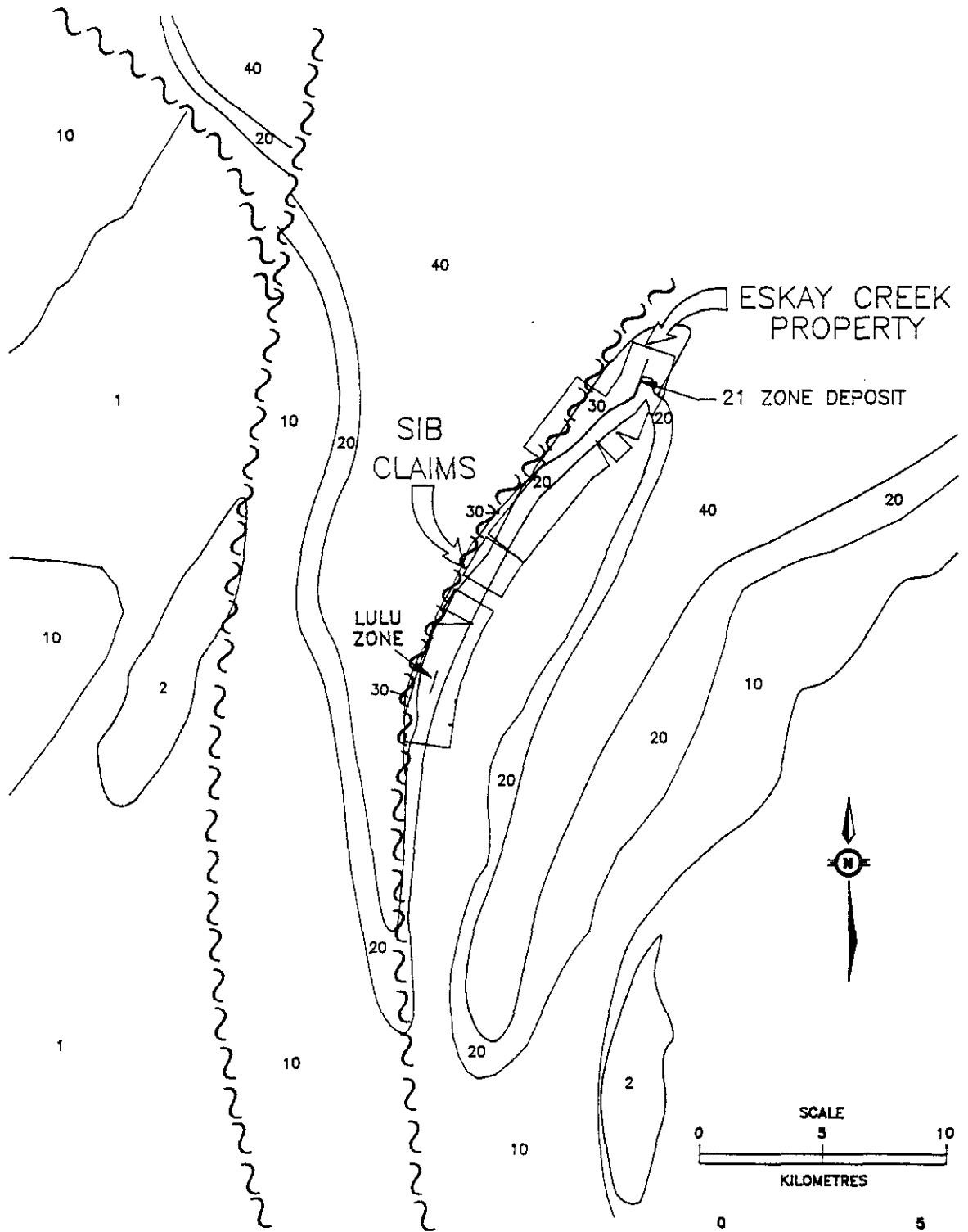
East-west to north-west trending extensional faults, frequently with sinistral offsets, further imbricate the stratigraphy on the SIB claims. These structures often localize zones of enhanced hydrothermal alteration, and base and precious metals mineralization.

Four distinct styles of mineralization have been defined on the SIB claims:

- i. Stringer and Disseminated gold-silver-arsenic-lead-zinc Mineralization

This style of mineralization is confined to the highly altered pyroclastic rocks present at the Betty Creek - MacKay Sediment contact.

The zone ranges from 5 - 15 metres in thickness and has gold geochemical values which are typically in the range 0.25 - 1.5 g/t.



**LEGEND**

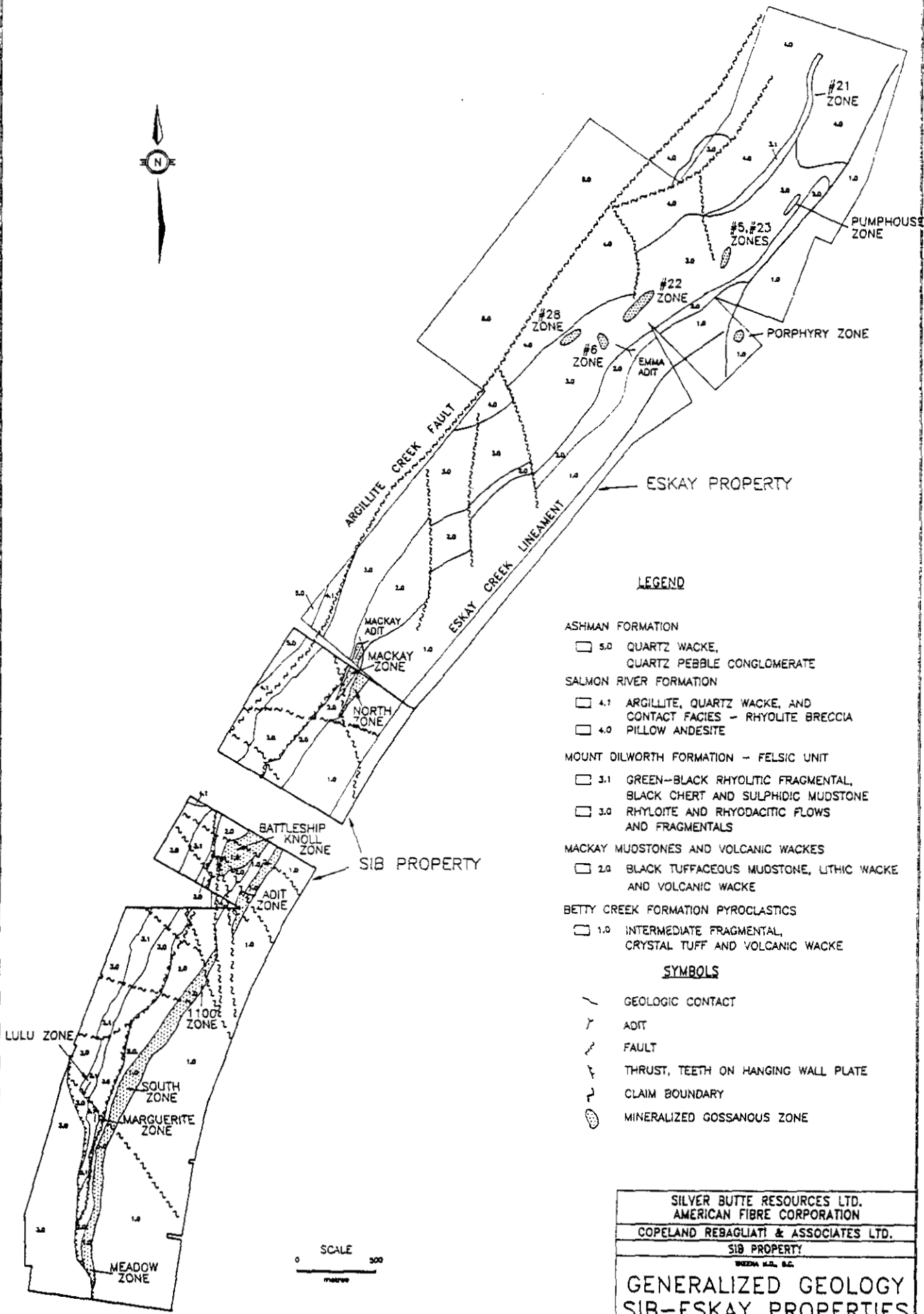
PERIOD	FORMATION	FORMATION
M. Jur	40	Ashman
	30	Salmon River
190 Ma	20	Mount Dilworth
	10	Betty Creek
L. Jur	2	Unuk River
210 Ma	1	
U. Tri		

6 Km

BOWSER LAKE  
SPATSIZI  
HAZELTON  
STUHINI

AMERICAN FIBRE CORPORATION SILVER BUTTE RESOURCES LTD.		
COPELAND REBAGLIATI & ASSOCIATES LTD.		
SIB PROPERTY		
SKEENA M.D., B.C.		
REGIONAL GEOLOGY		
SCALE: AS SHOWN	DRAWN BY: ProComp GeoDraft Ltd.	FILE: SIBREG4.DWG
DATE: FEB. 1992	SCALE: 1048/9W,10E	PAGE: 9

MODIFIED FROM REBAGLIATI et al. (1991)



**LEGEND**

- ASHMAN FORMATION
  - 5.0 QUARTZ WACKE, QUARTZ PEBBLE CONGLOMERATE
- SALMON RIVER FORMATION
  - 4.1 ARGILLITE, QUARTZ WACKE, AND CONTACT FACIES - RHYOLITE BRECCIA
  - 4.0 PILLOW ANDESITE
- MOUNT DILWORTH FORMATION - FELSIC UNIT
  - 3.1 GREEN-BLACK RHYOLITIC FRAGMENTAL, BLACK CHERT AND SULPHIDIC MUDSTONE
  - 3.0 RHYLOITE AND RHYODACITIC FLOWS AND FRAGMENTALS
- MACKAY MUDDSTONES AND VOLCANIC WACKES
  - 2.0 BLACK TUFFACEOUS MUDSTONE, LITHIC WACKE AND VOLCANIC WACKE
- BETTY CREEK FORMATION PYROCLASTICS
  - 1.0 INTERMEDIATE FRAGMENTAL, CRYSTAL TUFF AND VOLCANIC WACKE

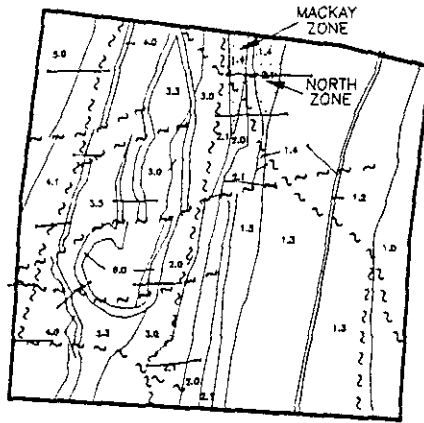
**SYMBOLS**

- GEOLOGIC CONTACT
- ADIT
- FAULT
- THRUST, TEETH ON HANGING WALL PLATE
- CLAIM BOUNDARY
- MINERALIZED GOSSANOUS ZONE



SILVER BUTTE RESOURCES LTD. AMERICAN FIBRE CORPORATION		
COPELAND REBAGLIATI & ASSOCIATES LTD.		
SIB PROPERTY		
WEDDA S.S., B.C.		
<b>GENERALIZED GEOLOGY</b>		
<b>SIB-ESKAY PROPERTIES</b>		
SCALE AS SHOWN	DRAWN BY: Fred C. Gledhill LTD.	FILE: SIBESKAY.DWG
DATE: FEB. 1982		PAGE: 10

MODIFIED AFTER BRETTON ET AL. 1989 AND OLIVER, 1982



**LEGEND**

**INTRUSIVE ROCKS (6)**

6.0 DIORITE DYKE

**ASHMAN FORMATION (5)**

5.0 QUARTZ WACKE,  
QUARTZ PEBBLE CONGLOMERATE

**SALMON RIVER FORMATION (4)**

4.1 ARGILLITE, QUARTZ WACKE  
4.0 CONTACT FACIES - ARGILLITE -  
RHYOLITE BRECCIA

**MOUNT DILWORTH FORMATION - FELSIC UNIT (3)**

3.3 RHYLOITE FLOW (AUTOBRECCIATED) AND TUFF  
3.2 GREEN-BLACK RHYOLITIC FRAGMENTAL  
AND CHERT BRECCIA  
3.1 BLACK CHERT - CHERT BRECCIA,  
SULPHIDIC MUDDSTONE  
3.0 RHYODACITIC FRAGMENTAL AND FLOW

**MACKAY MUDSTONES AND VOLCANIC WACKES (2)**

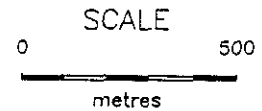
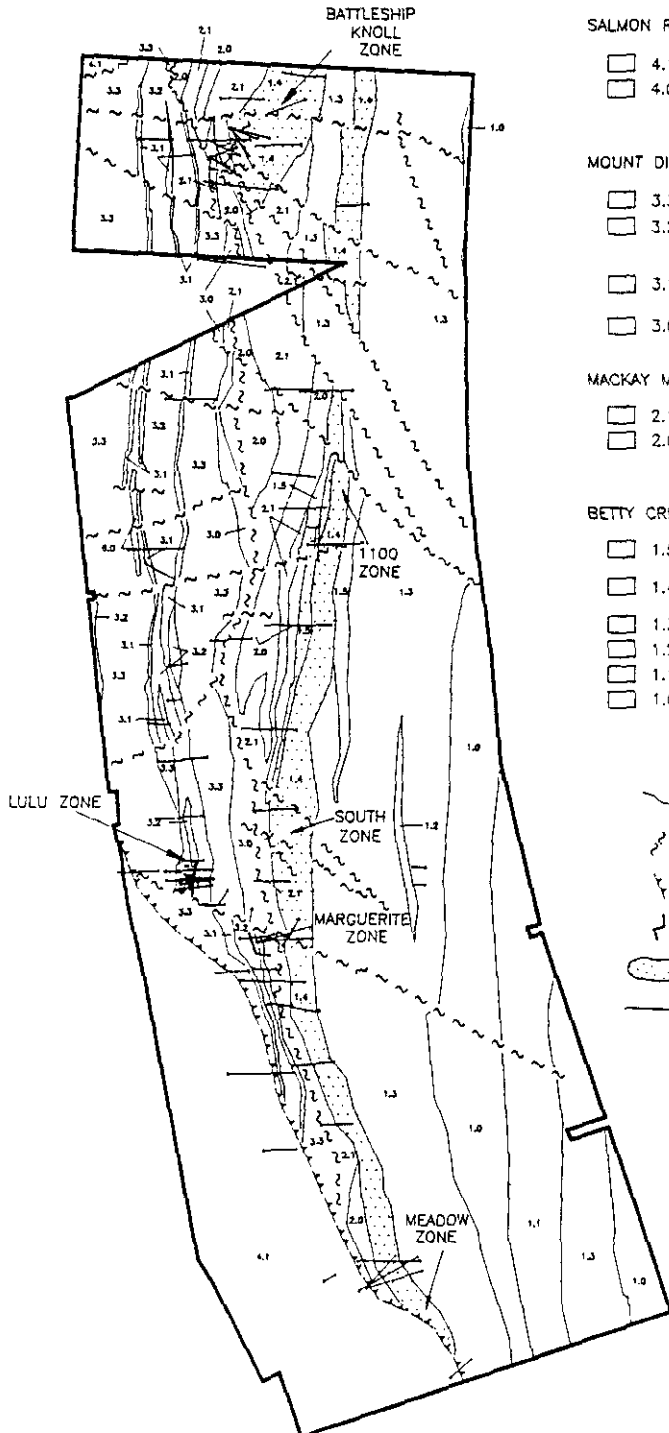
2.1 BLACK TUFFACEOUS MUDDSTONE, LITHIC WACKE  
2.0 VOLCANIC WACKE, INTERMEDIATE FLOW  
AND FRAGMENTAL, DEBRIS FLOW

**BETTY CREEK FORMATION PYROCLASTICS (1)**

1.5 INTERMEDIATE FRAGMENTAL  
AND BLACK CRYSTAL TUFF  
1.4 INTERMEDIATE LAPILLI FRAGMENTAL -  
POTASSIUM FELDSPAR / SERICITE ALTERED  
1.3 INTERMEDIATE FRAGMENTAL  
1.2 INTERVOLCANIC ARGILLITE  
1.1 POLYLITHIC VOLCANIC WACKE  
1.0 PHYLLITIC VOLCANICLASTIC

**SYMBOLS**

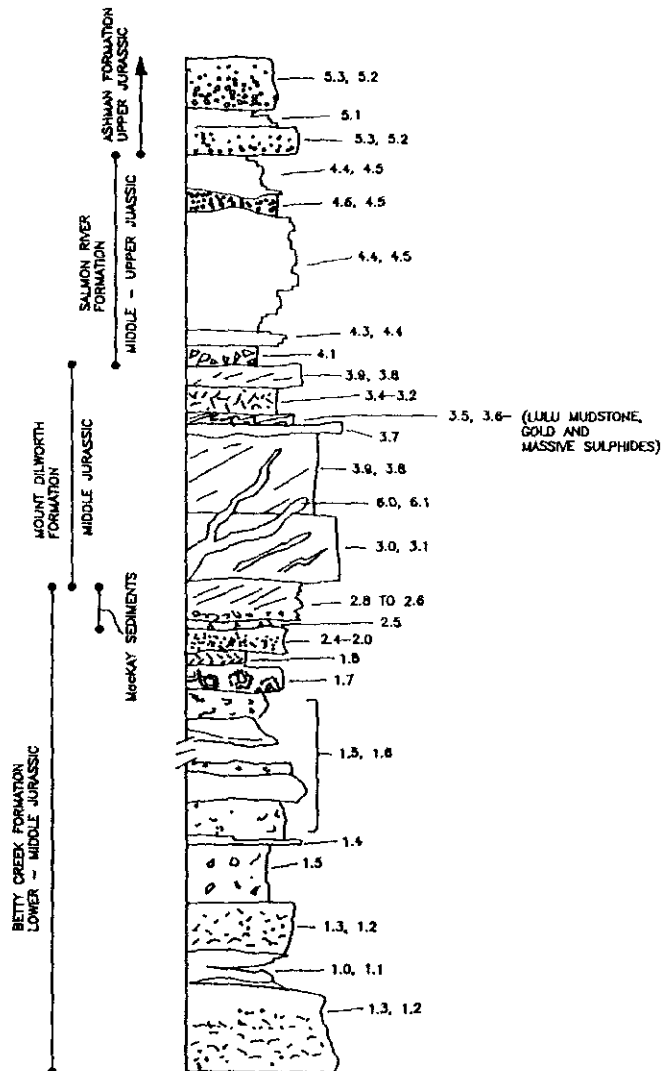
- GEOLOGIC CONTACT
- FAULT
- THRUST, TEETH ON HANGING WALL PLATE
- CLAIM BOUNDARY
- MINERALIZED GOSSANOUS ZONE
- DIAMOND DRILLHOLE



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SIB PROPERTY

SWEDEN U.S. & C.  
**GENERALIZED  
GEOLOGY**

DATE: AS SHEWEN PAGE # Proj/Zone GeoChart FILE: F121148B.DWG  
SUN: FEB 1992



## LEGEND

### INTRUSIVE ROCKS (6)

- 6.1 DIORITE DYKE
- 6.0 FELDSPAR PORPHYRYTIC FELSIC DYKE

### ASHMAN FORMATION (5)

- 5.3 POLYLYTIC QUARTZ PEBBLE CONGLOMERATE
- 5.2 QUARTZ WACKE
- 5.1 ARGILLITE

### SALMON RIVER FORMATION (4)

- 4.8 TUFFACEOUS WACKE
- 4.7 CHLORITIC SILTITE
- 4.6 POLYLYTIC QUARTZ PEBBLE CONGLOMERATE
- 4.5 QUARTZ WACKE - LITHIC WACKE
- 4.4 ARGILLITE
- 4.3 SULPHURIC TURBIDITE - PYRITIC SILTITE
- 4.2 BLACK CHERT
- 4.1 CONTACT FACIES - ARGILLITE - RHYOLITE BRECCIA

### MOUNT DILWORTH FORMATION - FELSIC UNIT (3)

- 3.0 TUFFACEOUS RHYOLITE
- 3.0 RHYOLITE FLOW (AUTOBRECCIATED)
- 3.7 CHERT RHYOLITIC FLOW
- 3.6 TURBIDITIC MUDSTONE
- 3.5 SULPHURIC MUDSTONE AND CHERT
- 3.4 GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA
- 3.3 BLACK CHERT - CHERT BRECCIA
- 3.2 GREEN-BLACK RHYOLITIC FLOW
- 3.1 RHYODACITIC FLOW
- 3.0 RHYODACITIC FRAGMENTAL

### MUCKAY MUDSTONES AND VOLCANIC WACKES (2)

- 2.8 BLACK TUFFACEOUS MUDSTONE
- 2.7 BLACK SULPHURIC MUDSTONE
- 2.6 QUARTZ AND LITHIC WACKE
- 2.5 LIMESTONE
- 2.4 HEMATITIC POLYMYCTIC VOLCANIC WACKE
- 2.3 SUB-AERIAL INTERMEDIATE FRAGMENTAL
- 2.2 SUB-AERIAL INTERMEDIATE FLOW
- 2.1 SUB-AERIAL HEMATITIC DEBRIS FLOW
- 2.0 CHLORITIC VOLCANIC WACKE

### BETTY CREEK FORMATION PYROCLASTICS (1)

- 1.8 BLACK CRYSTAL TUFF
- 1.7 INTERMEDIATE FRAGMENTAL AND CLASTIC BRECCIA
- 1.6 INTERMEDIATE FLOW
- 1.5 INTERMEDIATE FRAGMENTAL
- 1.4 INTERVOLCANIC ARGILLITE
- 1.3 MAFC FRAGMENTAL
- 1.2 MAFC FLOW
- 1.1 POLYLYTIC VOLCANIC WACKE
- 1.0 PHYLITIC VOLCANICLASTIC

SCALE



MODIFIED AFTER OLIVER (1960)

SILVER BUTTE RESOURCES LTD.  
AMERICAN FIBRE CORPORATION  
COPELAND REAGLIATI & ASSOCIATES LTD.

SIB PROPERTY

SKEENA M.D., B.C.

STRATIGRAPHIC COLUMN

DATE: APR 1980	DRAWN BY: AILE DAVENING	NO. OF SHEETS: STRATCOL-010
DATE: FEB. 1982	SCALE: AS SHOWN	SHEET: 12

ii. Stratabound lead-zinc Veins

These veins develop in a sheared tuffaceous mudstone member of the MacKay Sediments.

iii. Gold-Stibnite Quartz-Carbonate Veinlets

Auriferous veinlets intersected at 8840N in the Lulu zone in DDH 90-30, are hosted by sulphidic mudstones and support strong mineralization grading up to 14.43 g gold/t and 1060 g silver/t over widths of 14.3 metres (0.421 oz gold/t, 30.91 oz silver/t over 46.92 ft.) (Figure 24).

iv. Stratiform (?) Sulphide-Sulphate Bodies - Precious Metals Enriched

Highly deformed barite-sulphide bodies are intersected in several boreholes in the Lulu zone (Figures 25 and 26). They are particularly well represented in DDH's 91-72 and 91-73. Strong gold-silver mineralization is associated with this baritic zone which in DDH 91-73 grades up to 12.46 g gold/t and 1258 g silver/t over 12.5 m (0.363 oz gold/t, 36.69 oz silver/t over 41 ft.). The zone is either a very early deformed sulphide vein or a true syngenetic massive sulphide lens. The available data cannot conclusively permit a distinction between these two alternatives.

Highlights from the 1989, 1990 and 1991 drilling programs are summarized as follows:









## Highlights of the 1989, 1990 and 1991 SIB Drilling Programs

Hole #	From m	To m	Length m	Length ft	Gold g/t*	Gold oz/t*	Silver g/t	Silver oz/t	Lead %	Zinc %
89-1	8.40	32.33	23.93	78.51	0.81	0.024	4.8	0.14		
89-2	6.00 8.00	24.00 10.09	18.00 2.09	59.06 6.86	0.67	0.019	6.7	0.20	0.50	0.70
89-3	1.53 43.79 68.33	17.00 50.00 69.24	15.47 6.21 0.91	50.75 20.37 2.99	0.43 0.66 1.17	0.013 0.019 0.034	3.5 3.7 6.2	0.10 0.11 0.18		
89-4	4.00 19.00 38.00	12.00 29.59 46.00	8.00 10.59 8.00	26.25 34.74 26.25	0.46 0.73 0.84	0.013 0.021 0.025	3.3 3.3 3.8	0.10 0.10 0.11		
89-5	1.54 31.00 43.00 51.00 56.00	10.00 32.38 45.00 53.00 62.00	8.46 1.38 2.00 2.00 6.00	27.76 4.53 6.56 6.56 19.69	0.54 0.89 0.50 0.36 0.71	0.016 0.026 0.015 0.010 0.021	2.7 4.2 2.0 6.2 3.9	0.08 0.12 0.06 0.18 0.11		
89-6	4.00 49.00	13.00 56.14	9.00 7.14	29.53 23.43	1.28 0.88	0.037 0.026	6.4 5.3	0.19 0.16		
89-7	3.00 25.00 46.00 64.00 74.97 81.00 92.77	6.00 26.00 55.00 65.00 78.39 82.00 94.37	3.00 1.00 9.00 1.00 3.42 1.00 1.60	9.84 3.28 29.53 3.28 11.22 3.28 5.25	0.49 0.36 1.30 0.49 0.57 0.36 0.48	0.014 0.010 0.038 0.014 0.017 0.010 0.014	7.1 2.1 4.2 1.1 1.8 1.3 1.6	0.21 0.06 0.12 0.03 0.05 0.04 0.05		
89-8	5.00 8.00 13.00 48.00 59.00 76.94 92.00	6.00 9.34 42.00 51.00 61.00 78.50 95.00	1.00 1.34 29.00 3.00 2.00 1.56 3.00	3.28 4.40 95.14 9.84 6.56 5.12 9.84	0.42 0.39 0.57 0.46 2.63 0.37 0.66	0.012 0.011 0.017 0.013 0.077 0.011 0.019	2.8 4.7 2.8 2.3 3.7 2.0 3.1	0.08 0.14 0.08 0.07 0.11 0.06 0.09		
89-9	4.00 31.00 50.00 54.00 59.00	18.00 42.00 51.00 58.00 63.00	14.00 11.00 1.00 4.00 4.00	45.93 36.09 3.28 13.12 13.12	0.40 0.48 0.49 0.46	0.012 0.014 0.014 0.013	8.1 2.5 2.2 2.3	0.24 0.07 0.06 0.07	0.40	
89-10	3.00 7.00 31.00 77.29 87.00 115.00	4.00 14.00 60.09 83.00 102.00 117.28	1.00 7.00 29.09 5.71 15.00 2.28	3.28 22.97 95.44 18.73 49.21 7.48	0.38 0.53 0.37 1.06 0.50 0.37	0.011 0.015 0.011 0.031 0.015 0.011	1.5 10.6 1.9 2.5 3.1 8.9	0.04 0.31 0.05 0.07 0.09 0.26		
89-11	7.00 12.00 32.00 39.00 41.00 57.00 76.00 86.00 104.00	8.00 27.00 33.00 40.00 42.00 59.00 78.00 89.00 122.56	1.00 15.00 1.00 1.00 1.00 2.00 2.00 3.00 18.56	3.28 49.21 3.28 3.28 3.28 6.56 6.56 9.84 60.89	0.45 0.46 0.43 0.36 0.40 0.48 0.72 0.41 0.47	0.013 0.013 0.012 0.010 0.012 0.014 0.021 0.012 0.014	1.6 3.0 1.4 3.1 2.2 5.1 32.9 3.0 3.9	0.05 0.09 0.04 0.09 0.06 0.15 0.96 0.09 0.11	1.40	1.30

\* In this report gold and silver assays reported as g/t refers to grams per metric tonne and oz/t refers to ounces per imperial ton.

## Highlights of the 1989, 1990 and 1991 SIB Drilling Programs

Hole #	From m	To m	Length m	Length ft	Gold g/t	Gold oz/t	Silver g/t	Silver oz/t	Lead %	Zinc %
89-12	17.00	18.00	1.00	3.20	0.52	0.015	21.9	0.64		
	23.00	46.00	23.00	75.46	1.35	0.039	3.1	0.09		
	34.00	36.00	2.00	6.56						1.60
89-13	26.20	27.00	0.80	2.62	0.48	0.014	0.9	0.03		
	29.00	30.00	1.00	3.28	0.47	0.014	11.7	0.34	1.00	0.50
	37.00	38.00	1.00	3.28	0.62	0.018	0.8	0.02		
	42.00	49.00	7.00	22.97	0.41	0.012	2.0	0.06		
	96.00	97.00	1.00	3.28	1.85	0.054	1.2	0.04		
89-14, 89-15 No Significant Results*										
90-16	62.00	65.00	3.00	9.84	0.39	0.011	0.7	0.02		
	68.00	74.00	6.00	19.69	0.27	0.008	1.0	0.03		
	86.00	95.00	9.00	29.53	0.58	0.017	1.1	0.03		
	95.00	98.90	3.90	12.80	2.03	0.059	2.1	0.06		
	101.00	106.00	5.00	16.40	0.36	0.011	0.8	0.02		
	111.00	113.62	2.02	6.63	1.75	0.051	1.6	0.05		
90-17	119.00	120.00	1.00	3.28	0.34	0.010	9.6	0.28	0.55	0.53
	143.00	144.00	1.00	3.28	0.20	0.006	7.9	0.23	0.62	1.83
90-18	42.00	43.00	1.00	3.28	0.42	0.012	10.0	0.29	0.67	0.72
	47.00	50.00	3.00	9.84	0.56	0.016	2.9	0.08		0.11
90-19	47.00	49.00	2.00	6.56	0.40	0.012	7.7	0.22	0.41	0.54
	85.00	91.00	6.00	19.69	0.71	0.021	1.2	0.04		
	97.00	99.00	2.00	6.56	0.46	0.013	1.1	0.03		
	184.00	186.00	2.00	6.56	0.61	0.018	1.3	0.04		
90-20	1.35	2.25	0.90	2.95	1.15	0.034	3.6	0.11	0.39	0.20
	19.82	20.39	0.57	1.87	0.49	0.014	2.3	0.07		0.18
	26.10	27.94	1.84	6.04	0.51	0.015	3.0	0.09		
	117.21	122.11	4.90	16.08	0.21	0.008	6.5	0.19	0.39	0.45
	163.32	163.98	0.66	2.17	0.36	0.011	0.9	0.03		
	178.70	181.63	2.93	9.61	0.52	0.015	3.4	0.10		
	184.67	185.67	1.00	3.28	0.43	0.012	1.2	0.04		
	193.74	194.84	1.10	3.61	0.41	0.012	1.4	0.04		
	202.95	211.00	8.05	26.41	0.38	0.011	3.3	0.10		
90-21	25.50	31.00	5.50	18.04	0.37	0.011	2.5	0.07		
	32.00	33.00	1.00	3.28	2.79	0.081	4.2	0.12		
	36.00	37.00	1.00	3.28	0.93	0.027	2.0	0.06		
	55.75	57.75	2.00	6.56	0.47	0.014	2.3	0.07		
	144.00	146.00	2.00	6.56	0.50	0.015	2.7	0.08		
90-22	20.00	21.16	1.16	3.80					0.20	1.20
	102.00	105.00	3.00	9.84	0.48	0.014	0.7	0.02		
90-23	102.72	103.58	0.86	2.82	0.18	0.005	5.1	0.15	0.38	0.23
	104.70	105.00	0.30	0.98	0.18	0.005	8.6	0.25	0.56	1.00
90-24	23.77	26.00	2.23	7.32	0.38	0.011	1.1	0.03		
90-25	36.00	39.00	3.00	9.84	0.45	0.013	1.0	0.03		
	58.00	61.00	3.00	9.84	0.40	0.012	2.8	0.08		

\* All intersections less than 0.34 grams gold per tonne (0.01 ounces gold per ton)

## Highlights of the 1989, 1990 and 1991 SIB Drilling Programs

Hole #	From m	To m	Length m	Length ft	Gold g/t	Gold oz/t	Silver g/t	Silver oz/t	Lead %	Zinc %
90-26	48.00	51.00	3.00	9.84	0.46	0.014	0.9	0.03		
	51.50	59.10	7.60	24.93	0.47	0.014	1.4	0.04		
	60.00	62.00	2.00	6.65	0.45	0.013	1.1	0.03		
90-27	3.57	10.00	6.43	21.10	0.56	0.016	6.5	0.19		
90-28	24.00	30.00	6.00	19.69	1.26	0.037	2.4	0.07		
	45.00	46.00	1.00	3.28	0.54	0.016	11.7	0.34	0.11	0.18
90-29	65.30	65.80	0.50	1.64	0.36	0.010	3.6	0.11		
	66.30	66.80	0.50	1.64	0.42	0.012	1.2	0.04		
	69.80	70.30	0.50	1.64	0.51	0.015	2.7	0.08		
	70.80	72.54	1.74	5.71	0.36	0.011	6.9	0.20	0.41	0.29
90-30	52.20	57.70	5.50	18.04	0.65	0.019	4.4	0.13		
	57.70	58.91	1.21	3.97	14.33	0.418	70.6	2.06		
	58.91	61.41	2.50	8.20	4.15	0.121	174.0	5.07		
	61.41	66.50	5.09	16.70	29.79	0.869	1722.7	50.24		
	66.50	69.50	3.00	9.84	1.75	0.051	201.0	5.86		
	69.50	72.00	2.50	8.20	8.71	0.254	2105.6	61.41		
	72.00	74.14	2.14	7.02	3.19	0.093	159.5	4.65		
	74.14	75.00	0.86	2.82	0.99	0.029	15.8	0.46		
	75.00	77.00	2.00	6.56	0.60	0.017	3.2	0.09		
	Containing:									
	57.70	72.00	14.30	46.92	14.43	0.421	1059.8	30.91		
	57.70	74.14	16.44	53.94	12.96	0.378	942.7	27.49		
90-31	129.79	130.79	1.00	3.28	0.59	0.017	4.8	0.14		
	135.79	136.79	1.00	3.28	0.44	0.013	2.9	0.08		
	142.79	143.79	1.00	3.28	0.64	0.019	4.3	0.13		
90-32	No Significant Results*									
90-33	67.63	71.30	3.67	12.04	0.44	0.013	20.2	0.59	0.78	0.62
	79.90	82.76	2.86	9.38	0.42	0.012	12.0	0.35	0.64	0.42
90-34	4.00	8.53	4.53	14.86	3.52	0.103	36.3	1.06		0.17
	Or									0.14
	2.98	14.63	11.65	38.22	2.33	0.068	25.7	0.75		
	154.83	172.96	18.13	59.48	0.68	0.020	1.7	0.05		
	177.17	178.17	1.00	3.28	0.35	0.010	1.4	0.04		
90-35, 90-36	No Significant Results*									
90-37	55.90	56.85	0.95	3.12	0.45	0.013	2.6	0.08		
	87.78	88.78	1.00	3.28	0.45	0.013	12.7	0.37	1.32	2.23
	108.02	109.77	1.75	15.74					1.30	1.20
90-38	45.81	47.72	1.91	6.27	0.43	0.013	7.8	0.23		
	166.49	172.27	5.78	18.96	0.45	0.013	3.0	0.09		
90-39	No Significant Results*									
90-40	183.02	186.00	2.98	9.78	0.94	0.027	3.0	0.09		
90-41	49.09	55.51	6.42	21.06	0.53	0.016	10.6	0.31		0.79
	60.00	62.75	2.75	9.02	0.47	0.014	12.7	0.37	0.56	1.39
	95.00	102.00	7.00	22.97	0.40	0.012	2.6	0.08		

\* All intersections less than 0.34 grams gold per tonne (0.01 ounces gold per ton)

## Highlights of the 1989, 1990 and 1991 SIB Drilling Programs

Hole #	From m	To m	Length m	Length ft	Gold g/t	Gold oz/t	Silver g/t	Silver oz/t	Lead %	Zinc %
89-42	No Significant Results*									
89-43	8.43	11.59	3.16	10.37	0.78	0.023	3.7	0.11		
90-44, 90-45	No Significant Results*									
90-46	184.00 184.00	191.00 187.00	7.00 3.00	22.97 9.84	0.22	0.006	11.4	0.33	0.36	1.00
90-47, 90-48, 90-49	No Significant Results*									
91-50	27.18	28.18	1.00	3.28	1.23	0.036	10.7	0.31		
91-51	18.80 27.00 39.00	22.00 31.00 43.00	3.20 4.00 4.00	10.50 13.12 13.12	0.80 0.63 0.43	0.023 0.018 0.012	3.1 3.8 2.1	0.09 0.11 0.06		
91-52	No Significant Results*									
91-53	77.00 76.00	78.00 81.40	1.00 5.40	3.28 17.72	0.01 0.02	0.001 0.001	62.5 20.7	1.82 0.60		
91-54	No Significant Results*									
91-55	25.00 46.00 69.00	26.00 63.00 72.37	1.00 17.00 3.37	3.28 55.77 11.06	0.44 2.19 0.82	0.013 0.064 0.024	2.2 5.9 57.7	0.06 0.17 1.68		
91-56	21.74 25.30 34.00 37.00	23.00 34.00 37.00 39.30	1.26 8.70 3.00 2.30	4.13 28.54 9.84 7.55	0.37 1.73 8.16 2.99	0.011 0.050 0.238 0.087	1.5 6.3 1139.3 90.9	0.04 0.18 33.23 2.65		
91-57	No Significant Results*									
91-58	89.00	95.00	6.00	19.69	1.02	0.030	3.2	0.09		
91-59, 91-60, 91-61, 91-62	No Significant Results*									
91-63	6.10	23.00	16.90	55.45	0.11	0.003	17.1	0.05		
91-64, 91-65, 91-66, 91-67	No Significant Results*									
91-68	12.00	13.00	1.00	3.28	0.35	0.010	1.2	0.04		
91-69	No Significant Results*									
91-70	24.40 39.00	39.00 58.00	14.60 19.00	47.90 62.34	0.49 1.09	0.014 0.032	0.9 63.8	0.03 1.86		
91-71	8.00 13.00	9.00 14.00	1.00 1.00	3.28 3.28	0.42 0.36	0.012 0.011	0.2 0.8	0.01 0.02		
91-72	21.50 27.00 29.00 39.00	23.70 29.00 37.00 41.00	2.20 2.00 8.00 2.00	7.22 6.56 26.20 6.56	0.99 1.04 10.61 1.32	0.029 0.031 0.310 0.038	2.4 19.5 802.4 36.7	0.07 0.57 23.40 1.07		

\* All intersections less than 0.34 grams gold per tonne (0.01 ounces gold per ton)

## Highlights of the 1989, 1990 and 1991 SIB Drilling Programs

Hole #	From m	To m	Length m	Length .ft	Gold g/t	Gold oz/t	Silver g/t	Silver oz/t	Lead %	Zinc %
91-73	28.00	35.40	7.40	24.28	0.83	0.024	0.6	0.02		
	35.40	47.90	12.50	41.01	12.46	0.363	1257.9	36.69		
	44.30	47.90	3.60	11.81	20.37	0.594	2633.2	76.80		
	47.90	49.00	1.10	3.61	0.65	0.019	39.7	1.16		
91-74	16.40	21.80	5.40	17.72	0.64	0.019	2.2	0.06		
91-75	10.65	11.65	1.00	3.28	0.42	0.012	2.0	0.06		
	22.00	23.50	1.50	4.92	0.47	0.014	0.1	-		
91-76, 91-77, 91-78 No Significant Results*										
91-79	41.76	45.50	3.74	12.27	0.51	0.015	5.3	0.16		
	51.20	58.80	7.60	24.93	1.42	0.042	20.0	0.58		
91-80, 91-81, 91-82, 91-83, 91-84 No Significant Results*										
91-85	24.70	25.90	1.20	3.94	0.30	0.009	0.1	-		
	30.00	35.70	5.70	18.70	4.77	0.139	170.9	4.98		
	35.70	40.30	4.60	15.09	18.26	0.533	956.6	27.90		
	40.30	41.30	1.00	3.28	1.72	0.050	79.9	2.33		
91-86	28.00	38.00	10.00	32.81	0.60	0.018	0.4	0.01		
	38.00	51.00	13.00	42.65	2.92	0.085	433.3	12.64		
	40.00	47.00	7.00	22.97	4.20	0.123	775.6	22.62		
91-87	12.00	14.00	2.00	6.56	0.42	0.012	3.4	0.10		
91-88	21.00	23.00	2.00	6.56	0.40	0.012	1.3	0.04		
	29.00	31.00	2.00	6.56	1.63	0.048	2.0	0.06		
91-89 No Significant Results*										
91-90	61.00	65.00	4.00	13.12	-	-	6.6	0.19		
91-91, 91-92 No Significant Results*										
91-93	25.59	59.00	33.41	109.61	0.40	0.012	1.9	0.06		
	85.00	105.00	20.00	65.62	1.26	0.037	4.4	0.13		
91-94, 91-95, 91-96 No Significant Results*										
91-97	140.00	144.00	4.00	13.12	0.40	0.012	2.5	0.07		
	158.00	166.00	8.00	26.25	0.40	0.012	2.5	0.07		
91-98, 91-99, 91-100, 91-101, 91-102 No Significant Results*										
91-103	3.05	11.00	7.95	26.08	0.48	0.014	4.9	0.14		
	25.00	27.00	2.00	6.56	1.00	0.029	2.9	0.08		
	29.00	31.00	2.00	6.56	0.39	0.011	1.0	0.03		
	49.00	51.00	2.00	6.56	0.46	0.013	1.3	0.04		
91-104	2.00	6.00	4.00	13.12	0.59	0.017	1.1	0.03		
	20.00	22.00	2.00	6.56	0.34	0.010	1.8	0.05		
	36.00	44.00	8.00	26.25	0.56	0.016	2.3	0.07		
	54.00	66.00	12.00	39.37	0.42	0.012	1.6	0.05		
	72.00	74.00	2.00	6.56	0.54	0.016	1.8	0.05		

\* All intersections less than 0.34 grams gold per tonne (0.01 ounces gold per ton)

## Highlights of the 1989, 1990 and 1991 SIB Drilling Programs

Hole #	From m	To m	Length m	Length ft	Gold g/t	Gold oz/t	Silver g/t	Silver oz/t	Lead %	Zinc %
91-105	27.00	29.00	2.00	6.56	0.35	0.010	3.9	0.11		
	73.00	75.00	2.00	6.56	0.72	0.021	1.6	0.05		
	77.00	79.00	2.00	6.56	0.40	0.012	0.3	0.01		
91-106	154.00	158.00	4.00	13.12	0.62	0.018	7.2	0.21		
	166.00	170.00	4.00	13.12	0.58	0.017	12.9	0.37		
91-107, 91-108 No Significant Results*										
91-109	33.00	35.00	2.00	6.56	0.43	0.013	3.3	0.10		
	63.00	65.00	2.00	6.56	0.35	0.010	2.1	0.06		
	79.00	81.00	2.00	6.56	0.56	0.016	6.3	0.18		
91-110	80.00	82.00	2.00	6.56	0.36	0.010	0.5	0.01		
	84.00	90.00	6.00	19.69	0.69	0.020	1.2	0.04		
91-111	6.10	7.00	0.90	2.95	0.36	0.011	1.3	0.04		
91-112	12.50	14.50	2.00	6.56	0.42	0.012	0.5	0.01		

\* All intersections less than 0.34 grams gold per tonne (0.01 ounces gold per ton)



Two forms of hydrothermal alteration are defined. One of these is related to the development of hydrothermal sericite and the oxidation of primary sulphides associated with the development of stratiform sulphidized zones. These develop at or near the contact of the Mount Dilworth formation with the Salmon River formation. The second alteration form is associated with alteration zones which may be both discordant and concordant with the strike of the enclosing stratigraphy. These zones are characterized by strong silica injection, pyritization, sericitization and potassic metasomatism.

Intrusive rocks form a very modest part of the rock column on the SIB claims. Most of these belong to the Unuk River diorite suite and are not mineralized.

#### CONCLUSIONS AND RECOMMENDATIONS

Extensive exploration has been conducted on the SIB property for both stratiform volcanogenic massive sulphide mineralization and for epithermal gold-silver mineralized zones.

Mineralization within the Lulu zone has been extensively drill tested. There are blocks of untested rock left within this zone. Based on the style and form of the higher grade mineralization seen in the Lulu Syncline, the preferred area of mineralization is near the core of the synclinal closure. Additional reserves may remain on sections where the closure has not been penetrated by boreholes.

The alteration mapping indicates that the surface exposures of the Mount Dilworth formation are hydrothermally altered.

The highly altered rock mass which often forms the contact between the Betty Creek rocks and the MacKay sediments has been pierced by many boreholes. Gold intersections in this area often range between 250 and 1500 ppb over a few metres.

Structurally controlled lead-zinc veins have been frequently intersected deep within the tuffaceous mudstone horizon.

Shear hosted gold veins, and smaller higher grade mineralized zones may exist on the SIB claims particularly within the intermediate volcanic rocks of the Betty Creek formation. These zones are most likely to develop at or near the trace of brittle failure zones and within the alteration envelopes of these zones.

The SIB claims have considerable strategic importance due to their proximity to the Eskay Creek deposit.

It is recommended that the SIB claims be maintained in good standing.

STATEMENT OF EXPENDITURES1991 PROGRAMSIB PROJECTJUNE 1, 1991 TO FEBRUARY 29, 1992

Diamond drilling and related costs	\$	624,422
Assays		65,778
Fuel		9,062
Helicopter (drill moves, fuel hauls)		231,528
Camp construction, supplies, mob and demob		188,770
Freight		13,817
Travel & Accomodation		34,523
Project staff and consultants		
D. Copeland, P.Eng.		
26 days @ \$465/day		12,090
M. Rebagliati, P.Eng.		
94 days @ \$465/day		43,710
T. MacAuley, senior geologist		
18 days @ \$450/day		8,100
J. Oliver, senior geologist		
131 days @ \$425/day		55,675
R. Haslinger, P.Eng.		
163 days @ \$375/day		61,125
R. Cann, senior geologist		
17 days @ \$350/day		5,950
J. Stevens, project surveyor		
24 days @ \$300/day		7,200
M. Archambault, project geologist		
111 days @ \$300/day		33,300
L. Forzley, C.A., project accountant		
30 days @ \$300/day		9,000
H. Chaudet, surveyor		
43 days @ \$285/day		12,255
P. Lawnikanis, geologist		
37 days @ \$285/day		10,545
C. O'Brien, camp cook		
48 days @ \$280/day		13,440
J. Lund, camp cook		
45 days @ \$280/day		12,600

Project staff and consultants, cont'd	
R. Klassen, geologist 36 days @ \$275/day	9,900
J. McCrea, geologist 68 days @ \$250/day	17,000
D. O'Neill, field technician 37 days @ \$240/day	8,880
M. Reid, field technician 37 days @ \$230/day	8,510
D. Wilson, field technician 81 days @ \$225/day	18,225
R. Rebagliati, field assistant 37 days @ \$210/day	7,770
N. Jensen, field assistant 100 days @ \$210/day	21,000
H. Smit, cook's assistant 53 days @ \$210/day	11,130
M. Yates, mining assistant 66.71 days @ \$150/day	<u>10,007</u>
	397,412
Food and camp consumables	16,091
Project control and data compilation	7,871
Reports, drafting, printing, petrographics and displays	79,243
Drill hole surveying	9,511
Expediting	10,051
Communication	<u>73,132</u>
TOTAL:	<u>\$ 1,761,211</u>

**CERTIFICATES OF QUALIFICATIONS**

D.J. Copeland, P. Eng.  
R.J. Haslinger, P. Eng.  
C.M. Rebagliati, P. Eng.

Certificate of Qualifications

I, David J. Copeland, of the City of Vancouver, Province of British Columbia, do hereby certify that:

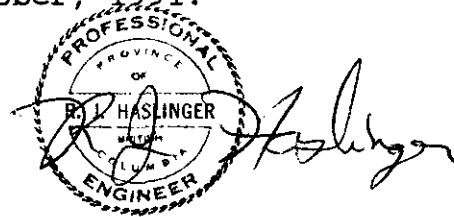
1. I am a consulting geological engineer with a business office at Suite 700 - 1177 West Hastings Street, Vancouver, B.C. and am president of Copeland Rebagliati & Associates Ltd.
2. I am a graduate in economic geology with a Bachelor of Science degree from the University of British Columbia in 1970.
3. I am a registered member, in good standing, of the Association of Professional Engineers and Geoscientists of B.C.
4. Since graduation I have been engaged in mineral exploration and mine development in Canada, United States of America, South America and Australasia.
5. The foregoing Assessment Report, 1991 Program, SIB 1-16, 20-39 Claims, Eskay Creek Region is based on:
  - a) A study of all available company and government reports.
  - b) My personal knowledge of the general area resulting from regional studies and from the management of exploration on the property in 1989, 1990 and 1991.

D.J. Copeland, P. Eng.  
March 25, 1992

Certificate of Qualifications

I, Richard Josef Haslinger, of #204 - 1990 West 6th Avenue, Vancouver, B.C., hereby certify that:

1. I am a Geological Engineer employed by Copeland Rebagliati & Associates Ltd., a geological consulting firm with offices at 700 - 1177 West Hastings Street, Vancouver, B.C.
2. I am a graduate of the University of British Columbia (B.Sc., Geological Engineering, 1986).
3. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia.
4. I have practised my profession continuously since graduation, excluding the period January, 1989 to June, 1990.
5. The foregoing Assessment Report, 1991 Program, SIB 1-16, 20-39 Claims, Eskay Creek Region is based on:
  - a) A study of available company and government reports.
  - b) My personal knowledge of the area resulting from my direct supervision of exploration on the property from August to October, 1990 and June to October, 1991.

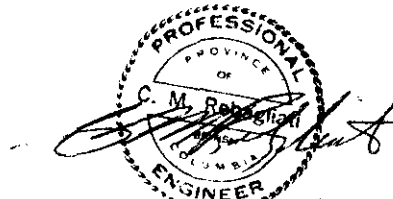


R. J. Haslinger, P.Eng.  
March 25, 1992

Certificate of Qualifications

I, Clarence Mark Rebagliati, of 3536 West 15th Avenue, Vancouver, B.C., hereby certify that:

1. I am a consulting Geological Engineer with offices at 3536 West 15th Avenue, Vancouver, B.C.
2. I am a graduate of the Provincial Institute of Mining, Haileybury, Ontario (Mining Technology, 1966).
3. I am a graduate of the Michigan Technological University, Houghton, Michigan, U.S.A. (B.Sc., Geological Engineering, 1969).
4. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia.
5. I have practised my profession continuously since graduation.
6. The foregoing Assessment Report, 1991 Program, SIB 1-16, 20-39 Claims, Eskay Creek Region is based on:
  - a) A study of all available company and government reports.
  - b) My personal knowledge of the general area resulting from regional studies and from the management of exploration on the property in 1989, 1990 and 1991.



C.M. Rebagliati, P.Eng.  
March 25, 1992



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**APPENDIX A**  
ANALYTICAL PROCEDURES



**MINERAL  
• ENVIRONMENTS  
LABORATORIES**

Division of Assayers Corp. Ltd.

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ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK:

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PROCEDURE FOR TRACE ELEMENT ICP  
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Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu,  
Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb,  
Sr, Th, U, V, Zn, Ga, Sn, W, Cr

Samples are processed by Min-En Laboratories, at 705 West 15th Street, North Vancouver, employing the following procedures.

After drying the samples at 95 C, soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized on a ring mill pulverizer.

0.50 gram of the sample is digested for 2 hours with an aqua regia mixture. After cooling samples are diluted to standard volume.

The solutions are analyzed by computer operated Jarrall Ash 9000 ICAP or Jobin Yvon 70 Type II Inductively Coupled Plasma Spectrometers.



**MINERAL  
• ENVIRONMENTS  
LABORATORIES**

Division of Assayers Corp. Ltd.

ELEMENT	DIGESTION	METHOD	DETECTION LIMIT
Ag PPM	Aqua Regia	ICP-AES	0.1
Al PPM	Aqua Regia	ICP-AES	1
As PPM	Aqua Regia	ICP-AES	1
B PPM	Aqua Regia	ICP-AES	1
BA PPM	Aqua Regia	ICP-AES	1
Be PPM	Aqua Regia	ICP-AES	0.1
Bi PPM	Aqua Regia	ICP-AES	1
Ca PPM	Aqua Regia	ICP-AES	10
Cd PPM	Aqua Regia	ICP-AES	0.1
Co PPM	Aqua Regia	ICP-AES	1
Cu PPM	Aqua Regia	ICP-AES	1
Fe PPM	Aqua Regia	ICP-AES	10
K PPM	Aqua Regia	ICP-AES	10
Li PPM	Aqua Regia	ICP-AES	10
Mg PPM	Aqua Regia	ICP-AES	10
Mn PPM	Aqua Regia	ICP-AES	1
Mo PPM	Aqua Regia	ICP-AES	1
Na PPM	Aqua Regia	ICP-AES	10
Ni PPM	Aqua Regia	ICP-AES	1
P PPM	Aqua Regia	ICP-AES	10
Pb PPM	Aqua Regia	ICP-AES	1
Sb PPM	Aqua Regia	ICP-AES	1
Sr PPM	Aqua Regia	ICP-AES	1
Th PPM	Aqua Regia	ICP-AES	1
U PPM	Aqua Regia	ICP-AES	1
V PPM	Aqua Regia	ICP-AES	0.1
Zn PPM	Aqua Regia	ICP-AES	1
Ga PPM	Aqua Regia	ICP-AES	1
Sn PPM	Aqua Regia	ICP-AES	1
W PPM	Aqua Regia	ICP-AES	1
Cr PPM	Aqua Regia	ICP-AES	1
Au PPB	Fire Assay-Aqua Regia	AAS	1
Au PPB	Aqua Regia-MIBK	AAS	5
Hg PPB	Aqua Regia	AAS-Flameless	5
Tl PPB	Aqua Regia-MIBK	AAS	20
F PPM	Fusion	Specific Ion	2

OFFICE AND LABORATORIES:  
705 WEST FIFTEENTH STREET, NORTH VANCOUVER, B.C.  
CANADA V7M 1T2

PHONE: (604) 980-5814 (604) 988-4524  
TELEX: VIA USA 7601067  
FAX: (604) 980-9621



ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK

-----  
PROCEDURE FOR AU, PT OR PD FIRE GEOCHEM  
-----

Geochemical samples for Au Pt Pd are processed by Min-En Laboratories, at 705 West 15th St., North Vancouver, B. C., laboratory employing the following procedures:

After drying the samples at 95 C, soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized on a ring mill pulverizer.

A suitable sample weight; 15.00 or 30.00 grams is fire assay preconcentrated. The precious metal beads are taken into solution with aqua regia and made to volume.

For Au only, samples are aspirated on an atomic absorption spectrometer with a suitable set of standard solutions. If samples are for Au plus Pt or Pd, the sample solution is analyzed in an inductively coupled plasma spectrometer with reference to a suitable standard set.



**MINERAL  
• ENVIRONMENTS  
LABORATORIES**

Division of Assayers Corp. Ltd.

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**GOLD ASSAY PROCEDURE:**  
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Samples are dried @ 95 C and when dry are crushed on a jaw crusher. The 1/4 inch output of the jaw crusher is put through a secondary roll crusher to reduce it to - 1/8 inch. The whole sample is then riffled on a Jones Riffle down to a statistically representative 300 - 400 gram sub-sample (in accordance with Gy's statistical rules). This sub-sample is then pulverized on a ring pulverizer to 95% minus 120 mesh, rolled and bagged for analysis. The remaining reject from the Jones Riffle is bagged and stored.

Samples are fire assayed using one assay ton sample weight. The samples are fluxed, a silver inquart added and mixed. The assays are fused in batches of 24 assays along with a natural standard and a blank. This batch of 26 assays is carried through the whole procedure as a set. After cupellation the precious metal beads are transferred into new glassware, dissolved, diluted to volume and mixed.

These aqua regia solutions are analyzed on an atomic absorption spectrometer using a suitable standard set. The natural standard fused along with this set must be within 3 standard deviations of its known or the whole set is re-assayed. Likewise the blank must be less than 0.015 g/tonne.



**APPENDIX B**

DRILL LOGS AND ANALYTICAL RESULTS

DRILL HOLES 91-49 TO 91-83	VOLUME I
DRILL HOLES 91-84 TO 91-112	VOLUME II

NTS MAP # : 1048/9 CLAIM # : SIB 12, 36  
 LOCAL GRID : 8839.94 N / 9674.83 E GLOBAL GRID : 13244.49 N / 17712.58 E  
 LENGTH : 207.30 m INCLINATION : -58.5 degrees ELEVATION : 983.42 metres  
 OVERBURDEN : 3.05 m CASING : 3.05 metres AZIMUTH : 117.0 degrees  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/03 DATE DRILLED : 1991/06/29 CORE LOCATION: 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 10001-10113

SUMMARY LOG

91-49

From(m)	To(m)	Field Name (Legend)
0.00	3.05	CASING
3.05	26.00	CHERTY RHYOLITIC FLOW (3.7)
26.00	73.50	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
73.50	90.00	CHERTY RHYOLITE FLOW (3.7)
90.00	125.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
125.00	130.00	GREEN-BLACK RHYOLITIC FLOW (3.2)
130.00	137.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
137.00	143.00	RHYODACITIC FRAGMENTAL (3.0)
143.00	156.00	DIORITE DYKE (6.1)
156.00	185.00	RHYODACITIC FRAGMENTAL (3.0) (?)
185.00	186.00	QUARTZ AND LITHIC WACKE (2.6)
186.00	194.00	RHYODACITIC FRAGMENTAL (3.0)
194.00	204.00	HEMATITIC POLYMYCTIC VOLCANIC WACKE (2.4), SUB-AERIAL HEMATITIC DEBRIS FLOW (2.1)
204.00	207.30	CHLORITIC VOLCANIC WACKE (2.0)

207.30 END OF HOLE.

ANALYTICAL HIGHLIGHTS

91-49

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
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No significant results.

From(m)	To(m)	Description
0.00	3.05	CASING
3.05	26.00	CHERTY RHYOLITIC FLOW (3.7)
26.00	73.50	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
73.50	90.00	CHERTY RHYOLITE FLOW (3.7)
90.00	125.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
125.00	130.00	GREEN-BLACK RHYOLITIC FLOW (3.2)
130.00	137.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
137.00	143.00	RHYODACITIC FRAGMENTAL (3.0)

### Lithology

- Medium to dark grey to bluish on unaltered sections; greenish grey, dark grey, dark green and yellowish grey colour variations in altered and sheared sections.
- Fragmental volcanic is 50% clasts and 50% matrix on average, with a decrease of clasts to 30% below 103.0 metres. Size range falls into the lapilli range, with a mean width of 1.3 cm.
- Fragments are quartzose from 3.05 to 65.0m, with feldspathic and less frequent lithic clasts making up the remaining fragment types. Below 65m there is an increase in the percentage of feldspar clasts, which is partially reflected in the increase in sericite content. Fragments are poorly rounded and sorted, and original textures are rarely preserved.
- The matrix is very fine grained to aphanitic, and appears glassy to opaque. Below 65m the matrix is more feldspathic, and thus more sericitized and chloritized.
- <67.0>-<67.7> Mudstone: dark grey, laminated, fractured and folded, weakly veined; 110.8m, 112.6m, 113.1m, 114.0m, 115.2, 116.3m - Mudstone/graphitic interbeds; dark grey to black, deformed and distorted with highly irregular contacts, less than 10cm wide in all cases.
- Brecciated (intermediate ?) dykes: medium grey to greenish, fragments of breccia usually subrounded with near concentric "growth cores"; aphanitic, matrix made up smaller, < 1cm subangular fragments and aphanitic greenish white material. Large breccia fragments are 5 to 8 cm, and some appear to have "sub-intrusive" cores (See Intermediate dyke unit from 143.0 - 152.5. Note: this unit contains the most pyrite found in all the rock units and structures in hole 91-49. See mineralization section.
- Brecciated dykes occur at: 93.7 - 94.0m, 99.4 - 99.6m, 100.2 - 100.5m, 101.3 - 101.8m, 102.3 - 103.5m, 117.8 - 119.0m, 120.6 - 121.0m, 130.8 - 133.5m and 141.0 - 143.0.

### Structure

- Core axis measurements of bedding ? at 3.4m, 30.0m, and 38.0m record at 40 to 45 degrees
- Fault zones (marked by gouge and broken core) at 76.2 to 77.0m, fractured and quartz-calcite veined above fault from 73.8 to 76.2m, far more competent below fault and another zone at 133.5 - 134.0, with gouge at 133.6 - 133.75m, upper contact of the 133.5 to 134.0m fault is intruded by breccia dyke and a shear zone present from 127.5 to 130.6m.

From(m)	To(m)	Description
---------	-------	-------------

## Shear Zones:

- 13.7 - 14.9 at 0 - 15 degrees to c/a, weak chlorite alteration.
- 37.8 - 39.0 at 35 - 40 degrees to c/a, weak sericite alteration.
- 46.0 - 46.3 at 30 degrees to c/a, mylonitic texture.
- 53.5 - 54.1 at 15 - 45 degrees to c/a, weak sericite and chlorite alteration.
- 65.3 - 65.5 lost and broken core, weak chlorite and sericite alteration.
- 82.4 - 85.7 at 15 - 40 degrees to c/a, moderate foliation, weak chlorite and moderate sericite alteration.
- 102.5 - 105.0 at 20 - 35 degrees to c/a, weak to moderate foliation, weak sericite alteration, this zone is cut by 2 brecciated dykes.
- 115.0 - 117.5 weak shear zone with core angles of 30 - 45 degrees, moderately sericitized zones and isolated "smeared-out" graphitic bands.
- 122.0 - 124.2 -10 to 20cm isolated sheared zone with 10 - 20 degrees core angles, and abundant chloritic partings.
- 127.5 - 130.6 moderate to strong foliation, with core axis angles from 0 - 30 dereees, with averages of 5 - 8 degrees, zone is dark grey to blackish due to either graphitic or chloritic rich laminae.

## Other observations

- Surface fractures with hematite staining common from 3.05 - 22.0 metres.
- Oblique strain fabric and or lineation noted on many broken core surfaces, this may be related to a later stage deformation event.

## Alteration

- Alteration in the first 70 - 80m of hole 91-49 is generally very weak for chlorite and sericite. After 80m, or the first major fault zone, the degree of chlorite and especially sericite alteration increases (see below)
- 71.0 - 72.5 Weak chlorite alteration, especially as partings in weakly sheared material.
- 79.3 - 81.5 As above, but chlorite is concentrated in less than 5cm bands.
- 82.4 - 85.3 Moderate sericite alteration, related to the shear zone. (Sericite is medium green and concentrated in the unit of the matrix while chlorite (dark grey) is more common around the clasts.)
- 91.4 - 99.0 Isolated 20 - 40cm bands of moderately sericitized and weakly chloritized rock with similar textural relationships as the 82.4 - 85.3 interval.
- 99.0 - 105.0 Weak to moderate chlorite alteration with weak sericite alteration.
- 105.0 - 113.0 Weak to moderate sericite alteration, concentrated in the more foliated sections.
- 113.0 - 117.0 Moderate to strong sericite alteration, this interval contains isolated distorted argillaceous graphitic bands.
- 119.0 - 132.0 Weak to moderate sericite alteration, marked by the numerous sheared intervals and fragments of argillaceous material. Matrix appears to have weak chlorite alteration.
- 135.5 - 141.0 Weak grading/changing into moderate sericitic alteration, again related to both shearing and the fault zone at 135.0m.

## Mineralization

- Less than 1% pyrite as anhedral crystals and disseminated concentration in fractures from 3.05 - 50.0 metres. Pyrite also occurs as a trace portion of the fragmental felsic component.

From(m) To(m) -----Description-----

-Below 50.0 metres the percentage of pyrite decreases to trace (< 0.25%) amounts, and all zones described under Structure and Alteration still contain trace amounts except for the breccia dyke unit.  
 -The Breccia Dyke unit contains between 0.5 to 2% very fine grained patchy pyrite. The pyrite is concentrated around and in between the large brecciated fragments.

143.00 156.00 DIORITE DYKE (6.1)

Characteristics

-Medium grey to greenish, subporphyritic texture with 0.5 - 1mm plagioclase phenocrysts making up 20 - 30% of the rock. Trace amounts of quartz and leucoxene common.  
 -Rock is fractured to weakly brecciated, with "digested" xenolith fragments.

Structure

-Contacts with upper Breccia Dyke and lower volcanics are indistinct, but it is clear that the Diorite Dyke crosscuts the lower volcanic unit.

156.00 185.00 RHYODACITIC FRAGMENTAL (3.0)  
 185.00 186.00 QUARTZ AND LITHIC WACKE (2.6)  
 186.00 194.00 RHYODACITIC FRAGMENTAL (3.0)

Lithology

-Very similar to the 3.05 - 143.0m interval but the key differences are listed below:  
 Absence of intrusive dykes of both types; increase in dacitic to andesitic fragments and a more feldspar rich matrix; more variation in the percentage of fragments versus matrix, which is reflected in the degree of sericite alteration and color index; an increase in the intensity of sericite alteration and a corresponding increase in the degree of shearing.

Structure

-Fault Zone at 180.2 - 181.0, contacts at 35 degrees to c/a, gouge (sericitic) at 180.25m and 180.75m. Associated with isolated mudstone zone (See sub intervals below). Small, less than 10cm gouge zone at 169.8m, present within a strongly foliated zone from 168.3 to 170.7m.  
 -Weak Shear Zones at 158.4 to 163.4 (30 - 40 degrees to c/a), 165.0 to 167.0 (35 degrees to c/a), and at 171.8 to 175.8 (foliations at 30 - 35 degrees to c/a). All these zones have moderate sericite and very weak chloritic alteration.  
 -Strong Shear Zones at 168.3 to 170.7m and 188.5 to 190.0m. These zones have moderate to strong sericite alteration, weak chloritic alteration, and low core axis angles, less than 15 degrees in moderate to strong foliation zones.  
 -Below the 190.7 lithological contact there are no shear or fault zones (See next interval).

Alteration

-Generally weak to moderate sericite alteration throughout the interval except strong alteration present in shear zones. Some zones have weak chlorite alteration or a partially chloritic matrix.

From(m) To(m) -----Description-----

-The amount of albite? alteration has "dropped-off", and may be absent, based on the hardness of the rock. (This entire zone will be later tested for Na alteration.)

Mineralization

-Only trace (<0.25%) amounts of pyrite are present in this interval as isolated blebs or crystals of pyrite.  
 -Sphalerite? was detected in some quartz-carbonate veinlets between 184.7 and 185.9m. This sulphide is yellow-brown and occurs with trace (<0.25%) pyrite.

Subintervals - Mudstone <179.8> - <189.9>

-Isolated mudstone from 179.8 - 182.2m, 182.7 - 182.8m, and 184.7 - 184.9m. This corresponds to a 2.4m, 0.1m, and a 5.2m bed that may be related to fault transposition. Trace pyrite (<0.25%).  
 -The mudstone is blackish, hard, and has abundant hairline to < 1.0cm quartz-carbonate vein material.

194.00 204.00 HEMATITIC POLYMICITIC VOLCANIC WACKE (2.4), SUB-AERIAL HEMATITIC DEBRIS FLOW (2.1)  
 204.00 207.30 CHLORITIC VOLCANIC WACKE (2.0)

Lithology

-Light greenish-grey with a pale yellow-green matrix, matrix supported with 30 to 40% lapilli range heterolithic (rock, rare crystal) fragments. The fragments have a wide compositional variety, but are dominated by dacitic to andesitic clasts. A 6 to 1 mafic to felsic clasts ratio has been estimated for the fragments.  
 -Except for the upper contact and some lower crystal/ash tuff beds (206.3 - 207.3m), which fine upward, the unit is (internally) poorly sorted. This may be the result of the type of volcanism and absence of post depositional deformation.  
 -Although this unit proper begins at 190.7m, there is a gradationnal change from this unit to the unit above, that is truncated by the shear zone at 190.0 metres. Bedding planes in this zone are 75 to 80 degrees to c/a and the sequence prior to the 190.7m contact fine upward (tops to the west).

Structure, Alteration, Mineralogy

-There are no apparent structural features in this unit, it is relatively undisturbed.  
 -Alteration is weak to very weak, with sericite more common in the matrix.  
 -Isolated detrital blebs or pyrite pieces are present as part of the matrix.

Veins

-All veins inspected, except for those discussed earlier are barren of sulphides.  
 -Concentrations of hairline to 0.5cm veins appear to be related to albite? or silica alteration, and this will be checked by Na (Sodium) staining.

207.30 END OF HOLE.



## AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

## - SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91-49	10001	3.05	5.00	1.95	-	-	1	-	-	0.3	33	1	123	-	6	21	91	7330	830
91-49	10002	5.00	7.00	2.00	-	-	2	-	-	0.4	32	1	39	-	5	24	86	10150	1730
91-49	10003	7.00	9.00	2.00	-	-	1	-	-	0.2	29	1	37	-	3	17	42	6380	300
91-49	10004	9.00	11.00	2.00	-	-	2	-	-	0.4	45	1	58	-	4	19	70	7120	2740
91-49	10005	11.00	13.00	2.00	-	-	1	-	-	0.5	16	1	64	-	5	17	94	5580	2260
91-49	10006	13.00	15.00	2.00	-	-	1	-	-	0.5	18	1	71	-	4	17	97	8630	4410
91-49	10007	15.00	17.00	2.00	-	-	1	-	-	0.4	33	1	10	-	5	13	79	6270	3240
91-49	10008	17.00	19.00	2.00	-	-	2	-	-	0.2	17	1	33	-	4	18	72	6310	1670
91-49	10009	19.00	21.00	2.00	-	-	2	-	-	0.4	20	2	40	-	4	18	76	6110	4160
91-49	10010	21.00	23.00	2.00	-	-	1	-	-	0.5	41	2	71	-	5	23	126	6600	4420
91-49	10011	23.00	25.00	2.00	-	-	1	-	-	0.5	129	1	52	-	5	23	94	8410	4880
91-49	10012	25.00	27.00	2.00	-	-	3	-	-	0.4	166	1	79	-	6	27	121	12170	5470
91-49	10013	27.00	29.00	2.00	-	-	2	-	-	0.4	19	1	76	-	6	22	110	13060	3830
91-49	10014	29.00	31.00	2.00	-	-	2	-	-	0.4	26	2	69	-	5	20	78	10020	1810
91-49	10015	31.00	33.00	2.00	-	-	4	-	-	0.5	47	3	43	-	5	20	65	8700	3810
91-49	10016	33.00	35.00	2.00	-	-	2	-	-	0.4	28	2	48	-	5	18	62	6790	3480
91-49	10017	35.00	37.00	2.00	-	-	1	-	-	0.4	98	4	32	-	7	20	75	14220	3780
91-49	10018	37.00	39.00	2.00	-	-	5	-	-	0.5	53	3	81	-	8	26	140	18100	6980
91-49	10019	39.00	41.00	2.00	-	-	1	-	-	0.6	20	1	56	-	4	19	91	8430	10590
91-49	10020	41.00	43.00	2.00	-	-	1	-	-	0.7	18	2	34	-	5	24	92	6860	8180
91-49	10021	43.00	45.00	2.00	-	-	2	-	-	0.5	14	1	42	-	3	17	101	11780	5540
91-49	10022	45.00	47.00	2.00	-	-	1	-	-	0.5	17	1	45	-	5	23	107	6620	3270
91-49	10023	47.00	49.00	2.00	-	-	2	-	-	0.5	18	1	40	-	5	23	126	9980	4900
91-49	10024	49.00	51.00	2.00	-	-	2	-	-	0.5	18	1	29	-	5	22	97	8410	4540
91-49	10025	51.00	53.00	2.00	-	-	1	-	-	0.5	28	3	53	-	6	19	113	8100	4890
91-49	10026	53.00	55.00	2.00	-	-	2	-	-	0.6	18	1	47	-	4	18	88	8180	8250
91-49	10027	55.00	57.00	2.00	-	-	3	-	-	0.7	15	2	53	-	7	19	99	6430	5760
91-49	10028	57.00	59.00	2.00	-	-	3	-	-	0.5	16	2	52	-	4	21	94	8120	7160
91-49	10029	59.00	61.00	2.00	-	-	1	-	-	0.5	44	3	38	-	6	30	144	8340	3750
91-49	10030	61.00	63.00	2.00	-	-	2	-	-	0.6	20	2	34	-	3	23	106	9820	6420
91-49	10031	63.00	65.00	2.00	-	-	1	-	-	0.3	18	2	28	-	4	32	92	7460	4770
91-49	10032	65.00	67.00	2.00	-	-	2	-	-	0.3	16	1	29	-	3	13	82	6890	7240
91-49	10033	67.00	67.70	0.70	-	-	19	-	-	0.9	117	23	67	-	31	49	101	22880	13780
91-49	10034	67.70	69.00	1.30	-	-	2	-	-	0.5	18	2	17	-	4	14	93	8100	12080
91-49	10035	69.00	71.00	2.00	-	-	1	-	-	0.4	25	2	129	-	5	24	114	10490	8100
91-49	10036	71.00	73.00	2.00	-	-	1	-	-	0.4	22	4	68	-	4	21	118	10160	6750
91-49	10037	73.00	75.00	2.00	-	-	2	-	-	0.4	16	4	46	-	4	12	90	9840	14940
91-49	10038	75.00	77.00	2.00	-	-	2	-	-	0.3	28	3	49	-	6	24	126	11560	13250
91-49	10039	77.00	79.00	2.00	-	-	1	-	-	0.5	58	3	25	-	6	24	122	8930	10550
91-49	10040	79.00	81.00	2.00	-	-	2	-	-	0.4	72	2	18	-	5	25	89	9440	8440
91-49	10041	81.00	83.00	2.00	-	-	1	-	-	0.6	20	3	37	-	5	21	84	8480	10480
91-49	10042	83.00	85.00	2.00	-	-	3	-	-	0.6	13	2	55	-	4	19	85	7000	7130
91-49	10043	85.00	87.00	2.00	-	-	1	-	-	0.3	21	3	58	-	5	21	99	9540	5780
91-49	10044	87.00	89.00	2.00	-	-	2	-	-	0.4	19	1	52	-	5	22	90	7550	6940
91-49	10045	89.00	91.00	2.00	-	-	1	-	-	0.5	13	2	87	-	5	21	125	11460	5710
91-49	10046	91.00	93.00	2.00	-	-	2	-	-	0.4	18	1	103	-	5	21	108	10790	7020
91-49	10047	93.00	95.00	2.00	-	-	2	-	-	1.0	31	2	89	-	6	20	130	13480	10510
91-49	10048	95.00	97.00	2.00	-	-	1	-	-	0.7	20	1	77	-	6	19	126	16880	7760
91-49	10049	97.00	98.00	1.00	-	-	2	-	-	0.7	14	1	96	-	5	19	163	17710	4450
91-49	10050	98.00	99.00	1.00	-	-	2	-	-	0.9	22	3	96	-	12	25	196	22260	6110



## AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

## - SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91-49	10051	99.00	101.30	2.30	-	-	1	-	-	0.9	33	6	76	-	14	33	212	28120	7090	
91-49	10052	101.30	103.00	1.70	-	-	4	-	-	0.8	33	3	64	-	14	23	85	26480	11970	
91-49	10053	103.00	105.00	2.00	-	-	1	-	-	0.6	21	1	102	-	8	24	114	22790	7100	
91-49	10054	105.00	107.00	2.00	-	-	2	-	-	0.6	21	1	75	-	6	15	107	17150	12120	
91-49	10055	107.00	109.00	2.00	-	-	3	-	-	0.4	21	1	58	-	4	14	117	12030	6960	
91-49	10056	109.00	111.00	2.00	-	-	1	-	-	0.4	17	1	85	-	6	25	149	17790	3890	
91-49	10057	111.00	113.00	2.00	-	-	2	-	-	0.5	15	1	49	-	5	16	103	14600	7200	
91-49	10058	113.00	115.00	2.00	-	-	2	-	-	0.5	19	1	80	-	9	22	119	17800	3580	
91-49	10059	115.00	116.50	1.50	-	-	1	-	-	0.5	10	1	48	-	4	15	90	10700	4810	
91-49	10060	116.50	117.80	1.30	-	-	1	-	-	0.2	31	2	49	-	12	23	130	20350	5430	
91-49	10061	117.80	119.00	1.20	-	-	1	-	-	0.2	3	2	49	-	12	23	130	20350	5430	
91-49	10062	119.00	121.00	2.00	-	-	3	-	-	0.3	15	1	61	-	5	5	100	15360	4250	
91-49	10063	121.00	123.00	2.00	-	-	4	-	-	0.3	9	1	97	-	7	11	108	16680	2830	
91-49	10065	123.00	125.00	2.00	-	-	2	-	-	0.6	7	1	117	-	5	22	164	19960	4330	
91-49	10066	125.00	127.00	2.00	-	-	2	-	-	0.6	5	1	75	-	5	16	102	18050	7310	
91-49	10067	127.00	128.80	1.80	-	-	1	-	-	0.4	1	1	114	-	5	16	167	23090	4310	
91-49	10068	128.80	131.00	2.20	-	-	3	-	-	0.4	1	1	143	-	6	4	176	25210	2370	
91-49	10069	131.00	132.00	1.00	-	-	2	-	-	0.4	52	5	102	-	21	1	94	24880	8600	
91-49	10070	132.00	133.50	1.50	-	-	5	-	-	0.3	80	8	52	-	33	5	71	27630	8550	
91-49	10071	133.50	135.50	2.00	-	-	1	-	-	0.6	12	1	59	-	6	13	118	13880	11760	
91-49	10072	135.50	137.00	1.50	-	-	1	-	-	0.3	7	1	164	-	4	12	91	13260	2900	
91-49	10073	137.00	139.00	2.00	-	-	2	-	-	0.4	1	1	70	-	15	10	105	17840	2070	
91-49	10074	139.00	141.00	2.00	-	-	1	-	-	0.2	1	1	81	-	5	3	121	22660	1680	
91-49	10075	141.00	143.00	2.00	-	-	2	-	-	0.1	74	9	35	-	28	1	86	36040	8560	
91-49	10076	143.00	145.00	2.00	-	-	6	-	-	0.1	171	29	19	-	40	1	77	56560	15000	
91-49	10077	145.00	147.00	2.00	-	-	3	-	-	0.1	345	65	19	-	47	1	108	79570	15450	
91-49	10078	147.00	149.00	2.00	-	-	3	-	-	0.1	263	36	27	-	47	4	99	60000	15580	
91-49	10079	149.00	151.00	2.00	-	-	1	-	-	0.1	73	19	15	-	40	1	105	50300	9080	
91-49	10080	151.00	153.00	2.00	-	-	2	-	-	0.1	313	47	16	-	38	1	73	92100	8470	
91-49	10081	153.00	155.00	2.00	-	-	1	-	-	0.6	1	1	50	-	7	2	108	25050	7090	
91-49	10082	155.00	157.00	2.00	-	-	1	-	-	0.5	1	1	82	-	6	2	125	23060	8010	
91-49	10083	157.00	159.00	2.00	-	-	1	-	-	0.5	56	12	39	-	24	8	85	24780	9360	
91-49	10084	159.00	161.00	2.00	-	-	2	-	-	0.7	1	1	135	-	6	5	132	24340	7090	
91-49	10085	161.00	163.00	2.00	-	-	1	-	-	0.5	1	1	146	-	5	9	131	19350	4570	
91-49	10086	163.00	165.00	2.00	-	-	2	-	-	0.7	9	1	154	-	5	17	123	15220	5190	
91-49	10087	165.00	167.00	2.00	-	-	2	-	-	0.7	4	1	176	-	5	25	185	13530	7080	
91-49	10088	167.00	168.30	1.30	-	-	4	-	-	0.7	43	3	169	-	7	43	239	20390	2400	
91-49	10089	168.30	170.70	2.40	-	-	2	-	-	0.6	17	1	155	-	6	23	188	21040	7980	
91-49	10090	170.70	173.00	2.30	-	-	2	-	-	0.4	20	8	158	-	16	8	91	18850	3630	
91-49	10091	173.00	175.00	2.00	-	-	7	-	-	0.3	46	5	115	-	14	9	121	24680	5060	
91-49	10092	175.00	177.00	2.00	-	-	1	-	-	0.7	34	9	89	-	17	20	93	17960	5900	
91-49	10093	177.00	179.00	2.00	-	-	2	-	-	0.6	41	3	101	-	6	22	112	13480	10780	
91-49	10094	179.00	179.80	0.80	-	-	2	-	-	1.0	21	4	98	-	7	23	141	10050	12510	
91-49	10095	179.80	180.20	0.40	0.01	0.001	-	-	-	2.2	39	30	54	650	29	29	142	20400	20140	
91-49	10096	180.20	181.30	1.10	0.02	0.001	-	-	-	0.2	23	6	42	250	9	14	81	11170	21310	
91-49	10097	181.30	182.25	0.95	0.01	0.001	-	-	-	0.2	25	6	85	150	11	13	91	15410	8200	
91-49	10098	182.50	184.10	1.60	0.01	0.001	-	-	-	1.0	72	18	81	300	36	8	99	27130	15150	
91-49	10099	184.10	184.70	0.60	0.02	0.001	-	-	-	0.3	22	8	62	215	6	10	70	10640	16060	
91-49	10100	184.70	186.30	1.60	0.01	0.001	-	-	-	1.3	179	113	73	1520	20	117	556	30270	37750	
91-49	10101	186.30	188.00	1.70	0.05	0.001	-	-	-	1.1	41	17	64	370	10	17	104	10870	14670	
91-49	10102	188.00	189.00	1.00	0.01	0.001	-	-	-	1.3	203	13	56	285	9	14	143	18080	13190	

## AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

## - SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-49	10103	189.00	190.00	1.00	0.01	0.001	-	-	-	1.3	203	13	56	285	9	14	143	18080	13190
91-49	10104	190.00	190.70	0.70	-	-	1	-	-	0.5	78	22	106	-	12	31	60	9420	9040
91-49	10105	190.70	192.00	1.30	-	-	1	-	-	0.2	69	6	84	-	18	9	100	52220	22030
91-49	10106	192.00	194.00	2.00	-	-	3	-	-	0.1	1	1	103	-	12	1	97	56910	16640
91-49	10107	194.00	196.00	2.00	-	-	1	-	-	0.3	12	1	87	-	25	8	125	56790	20100
91-49	10108	196.00	198.00	2.00	-	-	2	-	-	1.0	24	5	171	-	21	15	91	48990	23850
91-49	10109	198.00	200.00	2.00	-	-	2	-	-	1.0	22	3	440	-	9	10	84	51200	47110
91-49	10110	200.00	202.00	2.00	-	-	1	-	-	0.2	11	1	194	-	7	7	109	59410	23530
91-49	10111	202.00	204.00	2.00	-	-	2	-	-	0.1	55	1	311	-	6	9	106	62780	24920
91-49	10112	204.00	205.80	1.80	-	-	2	-	-	0.1	118	4	128	-	9	8	115	49080	9820
91-49	10113	205.80	207.30	1.50	-	-	2	-	-	0.5	27	10	209	-	18	15	99	47690	20050

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ1+2  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	Tl PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPM	HG PPB
10001	.3	3370	33	3	123	1.6	1	830	.1	1	6	7330	2320	1	390	73	3	350	37	10	21	1	2	5	41	.8	91	1	1	5	125	1	
10002	.4	2640	32	3	39	1.0	1	1730	.1	1	5	10150	1420	1	550	132	6	540	18	10	24	1	3	6	43	.9	86	1	1	5	125	2	
10003	.2	2470	29	2	37	.8	1	300	.1	1	3	6380	1160	1	180	35	2	510	10	10	17	1	1	6	42	.5	42	1	1	5	120	1	
10004	.4	2520	45	1	58	.7	1	2740	.1	1	4	7120	1110	1	580	103	6	530	11	10	19	1	4	5	34	.8	70	1	1	5	123	2	
10005	.5	3890	16	1	64	1.4	1	2260	.1	1	5	5580	2710	1	600	90	2	330	40	10	17	1	5	7	49	1.0	94	2	1	4	98	1	
10006	.5	3930	18	2	71	1.7	1	4410	.1	1	4	8630	2740	1	840	161	4	290	26	10	17	1	6	7	40	.9	97	3	1	4	82	1	
10007	.4	1320	33	1	10	.3	1	3240	.1	1	5	6270	310	1	370	92	2	760	30	10	13	1	4	5	25	.8	79	2	1	5	133	1	
10008	.2	2240	17	1	33	1.0	1	1670	.1	1	4	6310	1220	1	420	94	6	570	33	10	18	1	3	4	28	.8	72	1	1	5	120	2	
10009	.4	2470	20	1	40	1.2	1	4160	.1	1	4	6110	1680	1	750	101	2	330	13	20	18	2	6	5	33	.7	76	1	1	5	112	2	
10010	.5	4180	41	1	71	2.3	2	4420	.1	1	5	6600	3050	1	920	118	3	200	14	10	23	2	6	5	27	.8	126	3	1	3	66	1	
10011	.5	1810	129	1	52	.9	1	4880	.1	1	5	8410	910	1	860	149	2	580	42	10	23	1	9	4	31	.6	94	1	1	5	133	1	
10012	.4	5700	166	1	79	2.1	2	5470	.1	2	6	12170	3100	4	1790	183	4	360	43	10	27	1	10	6	54	.9	121	2	1	4	92	3	
10013	.4	6450	19	1	76	2.0	1	3830	.1	2	6	13060	3040	4	2550	196	2	270	7	20	22	1	9	6	64	.9	110	3	1	5	112	2	
10014	.4	3560	26	1	69	1.5	1	1810	.1	2	5	10020	2270	1	620	61	8	570	35	20	20	2	5	5	44	.9	78	2	1	6	146	2	
10015	.5	1840	47	1	43	.5	1	3810	.1	2	5	8700	900	1	500	66	3	710	31	30	20	3	10	6	42	1.0	65	1	1	6	157	4	
10016	.4	2000	28	6	48	.8	2	3480	.1	1	5	6790	1190	1	640	62	9	690	47	20	18	2	10	5	33	.8	62	1	1	7	170	2	
10017	.4	1640	98	1	32	.6	1	3780	.1	2	7	14220	680	1	670	71	6	790	25	20	20	4	9	5	34	1.1	75	1	1	7	179	1	
10018	.5	6560	53	3	81	3.2	1	6980	.1	2	8	18100	4280	1	2880	196	6	240	47	10	26	3	18	7	46	1.2	140	2	1	4	101	5	
10019	.6	4720	20	1	56	1.4	1	10590	.1	1	4	8430	2070	3	2800	262	2	330	33	10	19	1	24	6	53	1.5	91	3	1	6	141	1	
10020	.7	3360	18	1	34	1.2	2	8180	.1	1	5	6860	1780	1	2570	188	6	460	36	10	24	2	18	5	45	1.3	92	3	1	6	129	1	
10021	.5	5910	14	1	42	1.9	1	5540	.1	1	3	11780	2180	5	4590	236	1	210	13	10	17	1	12	6	41	1.1	101	4	1	4	83	2	
10022	.5	5280	17	1	45	1.4	2	3270	.1	1	5	6620	2150	4	2200	112	6	320	1	20	23	1	6	5	42	1.1	107	4	1	5	114	1	
10023	.5	6740	18	1	40	1.6	2	4900	.1	1	5	9980	2060	6	3380	184	1	320	1	10	23	1	9	5	46	.9	126	4	1	4	99	2	
10024	.5	4340	18	1	29	1.3	2	4540	.1	1	5	8410	1430	3	2260	148	5	440	1	10	22	1	8	4	32	1.1	97	4	1	5	108	2	
10025	.5	3530	28	1	53	1.7	1	4890	.1	1	6	8100	2210	1	1850	138	1	350	1	10	19	3	9	5	29	1.0	113	2	1	4	103	1	
10026	.6	5020	18	1	47	1.9	1	8250	.1	1	4	8180	2260	3	2850	215	6	370	1	10	18	1	18	4	34	1.4	88	4	1	5	113	2	
10027	.7	4710	15	1	53	1.7	2	5760	.1	1	7	6430	2570	1	2080	141	2	350	1	20	19	2	12	6	49	1.2	99	3	1	5	117	3	
10028	.5	5870	16	1	52	1.8	1	7160	.1	1	4	8120	2710	3	3410	208	5	430	1	20	21	2	15	6	55	1.5	94	4	1	5	117	3	
10029	.5	5190	44	1	38	1.3	1	3750	.1	1	6	8340	1880	3	2460	97	1	390	1	20	30	3	7	5	47	1.0	144	4	1	4	109	1	
10030	.6	5700	20	1	34	1.4	2	6420	.1	1	3	9820	1750	4	4510	179	4	440	1	10	23	2	15	6	47	1.6	106	4	1	4	99	2	
10031	.3	3910	18	3	28	1.4	1	4770	.1	1	4	7460	1670	2	2880	106	1	340	1	10	32	2	11	5	27	1.0	92	2	1	4	99	1	
10032	.3	3650	16	3	29	1.4	1	7240	.1	1	3	6890	1800	1	3220	108	5	420	2	10	13	1	20	5	29	1.4	82	2	1	5	125	2	
10033	.9	7340	117	6	67	3.7	1	13780	.1	23	31	22880	4310	1	7630	418	1	170	35	630	49	23	48	4	43	16.9	101	2	1	2	49	19	
10034	.5	2480	18	1	17	.7	1	12080	.1	1	4	8100	1060	1	4670	171	7	660	2	40	14	2	28	5	28	2.2	93	2	1	6	152	2	
10035	.4	5640	25	3	129	1.9	1	8100	.1	1	5	10490	2790	1	5220	175	1	330	1	20	24	2	19	7	43	1.6	114	3	1	4	98	1	
10036	.4	7790	22	3	68	3.0	1	6750	.1	1	4	10160	3950	2	6180	122	5	230	1	20	21	4	18	7	45	1.5	118	4	1	4	95	1	
10037	.4	3720	16	2	46	1.3	1	14940	.1	1	4	9840	2140	1	6780	221	1	170	1	20	12	4	55	5	22	1.7	90	2	1	4	87	2	
10038	.3	4980	28	3	49	1.7	1	13250	.1	1	6	11560	2840	1	6120	248	5	260	1	20	24	3	52	5	28	1.9	126	2	1	4	103	2	
10039	.5	2320	58	1	25	.7	1	10550	.1	1	6	8930	1110	1	4420	164	2	540	1	30	24	3	38	5	30	1.6	122	2	1	6	148	1	
10040	.4	2260	72	1	18	.6	1	8640	.1	1	5	9440	800	1	3570	128	7	690	1	10	25	2	26	6	38	1.2	89	2	1	6	159	2	
10041	.6	3960	20	1	37	1.4	1	10480	.1	1	5	8480	2020	1	4410	143	1	300	1	10	21	3	34	6	39	1.4	84	3	1	4	103	1	
10042	.6	6500	13	1	55	3.5	1	7130	.1	1	4	7000	3570	1	3950	107	3	70	1	20	19	2	15	4	30	1.1	85	4	1	3	66	3	
10043	.3	5830	21	1	58	3.1	1	5780	.1	1	5	9540	3330	1	4930	108	1	110	1	10	21	3	14	5	34	1.1	99	3	1	3	68	1	
10044	.4	5520	19	1	52	1.9	1	6940	.1	1	5	7550	2950	1	5360	97	6	280	1	30	22	1	26	5	32	1.5	90	3	1	5	124	2	
10045	.5	7470	13	1	87	2.4	1	5710	.1	1	5	11460	4000	3	9220	121	2	150	1	40	21	2	25	7	37	1.7	125	3	1	3	55	1	
10046	.4	12080	18	2	103	2.8	1	7020	.1	1	5	10790	5310	7	10000	171	5	140	1	20	21	1	24	6	40	1.5	108	4	1	3	68	2	
10047	1.0	13750	31	2	89	3.0	1	10510	.1	3	6	13480	4150	14	15290	332	5	90	1	30	20	2	28	7	49	3.8	130	4	1	2	48	2	
10048	.7	15400	20	2	77	2.8	1	7760	.1	2	6	16880	3820	15	15610	232	3	100	1	10	19	1	17	6	37	2.3	126	3	1	2	47	1	
10049	.7	21270	14	3	96	3.9	2	4450	.1	2	5	17710	4950	21	19770	194	4	70	1	10	19	1	11	7	55	3.1	163	4	1	2	37	2	
10050	.9	23770	22	4	96	4.0	2	6110	.1	6</																							

COMP: COPELAND,REBAGLIATI & ASSOC.

PROJ: 9101

ATTN: M.REBAGLIATI

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

(604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ3+4

DATE: 91/10/17

\* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
10062	.3	17040	15	8	61	2.3	2	4250	.1	3	5	15360	3030	19	20010	136	3	130	1	20	5	1	9	6	46	6.0	100	2	1	3	78	3	
10063	.3	22950	9	10	97	3.6	2	2830	.1	3	7	16680	5420	22	22690	119	3	100	1	10	11	1	8	6	51	3.9	108	3	1	2	51	4	
10065	.6	29770	7	10	117	5.1	2	4330	.1	3	5	19960	6750	30	28840	150	1	120	1	10	22	1	14	6	54	3.9	164	3	1	1	38	2	
10066	.6	24950	5	8	75	2.8	1	7310	.1	3	5	18050	4400	29	30160	192	1	190	1	40	16	1	20	5	64	5.4	102	1	1	2	62	2	
10067	.4	35720	1	10	114	4.1	2	4310	.1	3	5	23090	7080	39	38520	189	1	120	1	20	16	1	10	6	91	7.0	167	1	1	1	35	1	
10068	.4	39880	1	13	143	4.6	1	2370	.1	3	6	25210	8480	41	40250	177	1	140	1	40	4	1	7	8	102	6.4	176	1	1	1	26	3	
10069	.4	24100	52	7	102	2.4	2	8600	.1	19	21	24880	3990	31	26750	186	1	260	26	470	1	5	27	4	71	136.6	94	1	1	6	121	2	
10070	.3	19370	80	5	52	1.8	1	8550	.1	30	33	27630	3150	27	20990	167	1	420	46	690	5	8	23	1	69	155.3	71	1	1	7	141	5	
10071	.6	17080	12	24	59	2.6	1	11760	.1	3	6	13880	3950	20	10910	109	2	180	1	20	13	1	48	6	29	8.8	118	3	1	2	49	1	
10072	.3	23460	7	6	164	3.3	1	2900	.1	2	4	13260	4600	27	22790	68	1	140	1	10	12	1	10	6	43	3.0	91	3	1	3	65	1	
10073	.4	26080	1	6	70	3.6	2	2070	.1	2	15	17840	3780	34	31620	96	2	190	1	10	10	1	6	5	41	3.8	105	1	1	2	64	2	
10074	.2	33300	1	8	81	4.1	1	1680	.1	3	5	22660	4390	48	40700	113	1	190	1	10	3	1	6	3	55	7.7	121	1	1	1	37	1	
10075	.1	22460	74	6	35	2.5	1	8560	.1	23	28	36040	2090	32	29260	152	4	400	28	480	1	9	14	1	56	152.9	86	1	1	7	151	2	
10076	.1	19170	171	6	19	1.6	1	15000	.1	34	40	56560	870	30	26290	184	12	530	33	890	1	29	27	1	120	266.8	77	1	1	10	196	6	
10077	.1	14870	345	9	19	1.5	1	15450	.1	40	47	79570	1400	32	27190	223	7	430	37	960	1	65	29	1	45	223.7	108	1	1	8	169	3	
10078	.1	12680	263	7	27	1.7	1	15580	.1	37	47	60000	1380	22	23900	279	2	490	43	990	4	36	30	1	40	200.2	99	1	1	8	151	3	
10079	.1	25850	73	6	15	1.9	1	9080	.1	39	40	50300	660	46	37930	308	1	350	48	1090	1	19	15	1	75	292.7	105	1	1	10	216	1	
10080	.1	17640	313	9	16	1.5	1	8470	.1	31	38	92100	1000	28	24990	313	25	470	15	740	1	47	16	1	67	199.0	73	1	1	8	188	2	
10081	.6	28990	1	7	50	3.1	1	7090	.1	5	7	20500	2630	47	40470	131	2	240	1	40	2	1	19	1	49	20.7	108	1	1	2	76	1	
10082	.5	33650	1	8	82	4.5	1	8010	.1	3	6	23060	3930	54	47290	131	1	200	1	10	2	1	19	4	52	9.1	125	1	1	1	60	1	
10083	.5	19360	56	5	39	2.1	1	9360	.1	21	24	24780	1840	30	28730	145	1	380	29	500	8	12	21	1	52	119.0	85	1	1	7	152	1	
10084	.7	39160	1	9	135	5.3	1	7090	.1	4	6	24340	6270	64	48640	104	1	160	1	10	5	1	18	3	63	5.3	132	1	2	1	40	2	
10085	.5	35470	1	9	146	4.8	1	4570	.1	3	5	19350	7270	48	38110	64	1	110	1	10	9	1	10	4	66	4.0	131	1	1	1	30	1	
10086	.7	30960	9	11	154	3.9	2	5190	.1	2	5	15220	7860	33	28320	56	2	150	1	30	17	1	13	7	83	3.6	123	2	1	2	45	2	
10087	.7	32330	4	9	176	4.9	2	7080	.1	2	5	13530	10370	30	26280	73	1	100	1	10	25	1	19	7	87	3.3	185	3	1	1	26	2	
10088	.7	30480	43	8	169	5.1	2	2400	.1	2	7	20390	9250	29	23850	51	2	110	1	50	43	3	7	6	80	3.0	239	3	1	1	25	4	
10089	.6	33680	17	9	155	4.7	2	7980	.1	3	6	21040	8630	40	33230	78	2	90	1	30	23	1	26	7	79	3.3	188	1	1	1	14	2	
10090	.4	28050	20	7	158	5.0	2	3630	.1	2	16	18850	8880	28	23030	65	1	70	1	20	8	8	9	9	75	2.4	91	4	1	1	9	2	
10091	.3	22270	46	6	115	4.1	5	5060	.1	6	14	24680	6070	25	23770	79	3	80	1	110	9	5	12	7	51	12.2	121	2	1	1	24	7	
10092	.7	13150	34	11	89	3.1	5	5900	.1	6	17	17960	5380	12	15940	86	3	140	7	120	20	9	16	9	50	11.0	93	5	1	2	38	1	
10093	.6	14250	41	9	101	2.4	2	10780	.1	2	6	13480	5350	13	16720	158	1	60	1	70	22	3	29	8	41	2.9	112	4	1	1	27	2	
10094	1.0	9080	21	5	98	2.0	2	12510	.1	2	7	10050	4730	4	11380	237	3	70	2	60	23	4	29	8	27	2.9	141	6	1	2	46	2	
10095	.4	3990	39	3	54	1.5	1	20140	.1	4	29	20400	2560	4	10310	403	18	760	20	250	29	30	59	3	30	10.4	142	1	1	3	70	650	
10096	.5	4680	23	1	42	1.4	2	21310	.1	2	9	11170	2220	6	13100	232	3	110	4	50	14	6	77	5	9	4.6	81	3	1	6	145	250	
10097	.4	11990	25	2	85	2.8	4	8200	.1	5	11	15410	5040	8	13140	111	2	120	5	120	13	6	19	8	31	12.9	91	3	1	3	74	150	
10098	.4	14190	72	7	81	1.8	2	15150	.1	32	36	27130	3900	17	23990	259	1	300	46	810	8	18	35	2	35	108.0	99	1	1	8	161	300	
10099	.6	5800	22	1	62	1.3	1	16060	.1	3	6	10640	3330	1	8450	238	7	220	5	110	10	8	34	7	12	4.4	70	3	1	5	130	215	
10100	.9	5170	179	1	73	1.4	1	37750	2.2	6	20	30270	3230	1	17100	766	15	770	20	310	117	113	77	1	15	13.9	556	1	1	5	119	1520	
10101	5.0	2860	41	1	64	1.3	1	14670	.1	6	10	10870	1980	1	9570	258	2	40	8	110	17	17	32	5	9	3.7	104	3	1	3	65	370	
10102&10103	5.6	3490	203	1	56	1.7	1	13190	.1	7	9	18080	2320	1	13530	352	1	50	10	80	14	13	23	8	19	3.7	143	2	1	3	68	285	
10104	.5	5810	78	4	106	1.0	1	9040	.1	5	12	9420	3340	1	4050	226	8	60	4	220	31	22	11	2	33	4.6	60	2	1	4	83	1	
10105	.2	18850	69	7	84	1.3	1	22030	.1	12	18	52220	2790	20	20100	986	1	260	1	2300	9	6	29	1	212	42.8	100	1	1	2	35	1	
10106	.1	25640	1	7	103	1.5	1	16640	.1	11	12	56910	2900	24	19630	633	1	280	1	2790	1	1	26	1	262	46.1	97	1	1	2	34	3	
10107	.3	23900	12	7	87	1.3	3	20100	.1	13	25	56790	2950	22	20420	707	1	260	1	2770	8	1	35	1	297	42.7	125	2	1	2	33	1	
10108	1.0	19760	24	5	171	1.2	5	23850	.1	12	21	48990	2780	17	19010	1042	1	240	1	2430	15	5	34	2	322	40.1	91	5	1	3	33	2	
10109	1.0	21790	22	5	440	1.0	5	47110	.1	12	9	51200	2310	19	18850	1718	1	220	1	2200	10	3	46	1	289	38.4	84	5	1	2	33	2	
10110	.2	25770	11	6	194	1.0	3	23530	.1	14	7	59410	2970	21	19910	1039	1	220	1	2370	7	1	34	1	366	37.7	109	3	1	2	35	1	
10111	.1																																



**MIN EN ASSAYERS LABORATORIES**  
 (DIVISION OF ASSAYERS CORP.)

91-49

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
 CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

705 WEST 15TH STREET  
 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
 TELEPHONE (604) 980-5814 OR (604) 988-4524  
 FAX (604) 980-9621

**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Assay Certificate

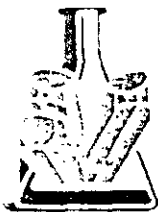
1S-0124-RA1

Company: COPELAND REBAGLIATI & ASSOC.  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-18-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify the following Assay of 23 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.*

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton
10095	.01	.001
10096	.02	.001
10097	.01	.001
10098	.01	.001
10099	.02	.001
10100	.01	.001
10101	.05	.001
10102 & 10103	.01	.001



**MINERALS ENVIRONMENTAL LABORATORIES**  
 (DIVISION OF ASSAYERS CORP.)

91-49

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
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*Geochemical Analysis Certificate* 1S-0124-RG1

Company: **COPELAND REBAGLIATI & ASSOC.**  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-18-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify* the following Geochemical Analysis of 23 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.

Sample Number	AG PPM
10095	2.2
10096	0.2
10097	0.2
10098	1.0
10099	0.3
10100	1.3
10101	1.1
10102 & 10103	1.3

COPELAND REBAGLIATI & ASSOCIATES LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-50  
 SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 104B/9 CLAIM # : SIB 12, 35  
 LOCAL GRID : 8841.63 N / 9705.38 E GLOBAL GRID : 13232.25 N / 17740.62 E  
 LENGTH : 64.00 m INCLINATION : -48.5 degrees ELEVATION : 982.99 metres  
 OVERBURDEN : 5.20 m CASING : 5.20 metres AZIMUTH : 110.5 degrees  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/04 DATE DRILLED : 1991/07/4 CORE LOCATION : 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 10114-10160

SUMMARY LOG 91-50

From(m)	To(m)	Field Name (Legend)
0.00	5.20	CASING
5.20	26.00	SULPHIDIC MUDSTONE AND CHERT (3.5) +/- TURBIDITIC MUDSTONE (3.6)
26.00	31.70	TUFFACEOUS RHYOLITE (3.9) +/- BLACK CHERT - CHERT BRECCIA -SERICITE (3.3a)
31.70	64.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
64.00		END OF HOLE.

ANALYTICAL HIGHLIGHTS 91-50

From(m)	To(m)	Length(m)	Au g/t	Au Oz/ton	Ag g/t	Ag Oz/ton	% Pb	% Zn
27.18	28.18	1.0	1.23	0.036	10.7	0.31		

From(m)	To(m)	Description
0.00	5.20	CASING
5.20	26.00	SULPHIDIC MUDSTONE AND CHERT (3.5) +/- TURBIDITIC MUDSTONE (3.6)
26.00	31.70	TUFFACEOUS RHYOLITE (3.9) +/- BLACK CHERT - CHERT BRECCIA -SERICITE (3.3a)

#### Lithology

- Black with dark grey and yellowish bands in part due to compositional variations.
- Comprised of thin to very thin beds (or laminae) of argillite rich material alternating with thin beds 1mm to 20mm silt size material and pyritic enriched material.
- Laminae size and composition variations are abundant throughout the entire interval, and broken surfaces sooty graphitic partings are common.
- Sedimentary structures and features such as laminae, stylolites, flute casts, slumps and possible slump fractures are present, and are typical of this type of rock.
- The lower 5.5 metres from 25.0 to 30.2m is a transition zone and is marked by change in colour (to grey) and increase in volcanic components, indicating a graded change from the present unit to the next unit.
- A smaller fault and a shear zone in the Lower mudstone unit obscure the sequence from 23.0 to 30.2 metres.

#### Structure

- Numerous bedding measurements yielded core axis angles of 50 to 60 degrees, with a mean of 55 degrees.
- Broken core from 21.8 to 24.9 records a fault zone with very broken-up rock and gouge material at 24.6 - 24.8m. Immediately below the 24.9m contact the rock is veined with calcareous stringers.
- Shear Zone from 27.3 - 30.2m; moderate foliation with mean foliation angles of 10-15 degrees, weak chlorite and moderate sericite alteration.

#### Alteration

- Altered only adjacent to quartz-carbonate veins, where rock is calcareous.
- On the whole there is no alteration imprint in this unit.

#### Mineralization

- Both diagenetic and hydrothermal pyrite are present in this unit.
- Syngenetic pyrite, found in "pyritic laminae" are common, and make up to 1% of the unit.
- Hydrothermal pyrite, occurring as more smaller point-like crystals, occurs as trace amounts.

#### Veining

- Isolated quartz-carbonate veins and veinlets are present at 22.18, 24.18, and 24.9 metres.



From(m)	To(m)	-----Description-----
31.70	64.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
		<p>Lithology &lt;31.70&gt;-&lt;41.2&gt;</p> <ul style="list-style-type: none"> <li>-Medium greyish-green, with darker grey sections that are less than 5cm wide</li> <li>-Matrix supported lapilli range tuff with 30 - 50% clasts which are heterolithic but favour the more mafic end of the composition sector.</li> <li>-The mean size of fragments are 1.9cm but variations are common, and this unit is poorly sorted, bedding is absent.</li> </ul> <p>Structure</p> <ul style="list-style-type: none"> <li>-Except for very local foliations, which measure 35 -40 degrees to c/a, there are no structural features present.</li> </ul> <p>Alteration</p> <ul style="list-style-type: none"> <li>-The unit is weakly sericitized throughout, and this is most obvious when examining the matrix.</li> </ul> <p>Mineralization</p> <ul style="list-style-type: none"> <li>-Only traces of pyrite are present, and some pyrite blebs appear to be part of the clasts material.</li> </ul> <p>Veining</p> <ul style="list-style-type: none"> <li>-Thin hairline calcareous veinlets and calcareous patches on the foliated surfaces are present, and in some core it imparts a pale white appearance.</li> </ul> <p>Subintervals</p> <ul style="list-style-type: none"> <li>-Mafic dyke at 31.9 - 32.8 and 34.3 - 35.4 metres. Dull grey with 0.25 to 0.5mm plagioclase phenocrysts, trace quartz, and a weak fractured appearance.</li> </ul> <p>Lithology &lt;41.20&gt;-&lt;50.40&gt;</p> <ul style="list-style-type: none"> <li>-A sub-unit within the Tuffaceous Rhyolite unit, but distinctive enough to be separated from the lithologies above 41.2m and below 50.4 metres.</li> <li>-Medium to dark grey, with 30-40% clasts and 60-70% matrix. Clasts are dominated by near black angular fragments that average 3 to 3cm. Smaller subrounded intermediate composition clasts are embedded in a dull grey matrix.</li> </ul> <p>Structure</p> <ul style="list-style-type: none"> <li>-Broken (fractured) core from 45.8 - 48.8m</li> <li>-Fault at 48.6 - 48.8 metres, marked by gouge.</li> <li>-No broken or missing core below 49.2 metres</li> </ul> <p>Alteration</p> <ul style="list-style-type: none"> <li>-Weak sericite alteration present in the matrix.</li> <li>-Fragments are less altered than the previous unit.</li> </ul>

From(m) To(m) -----Description-----

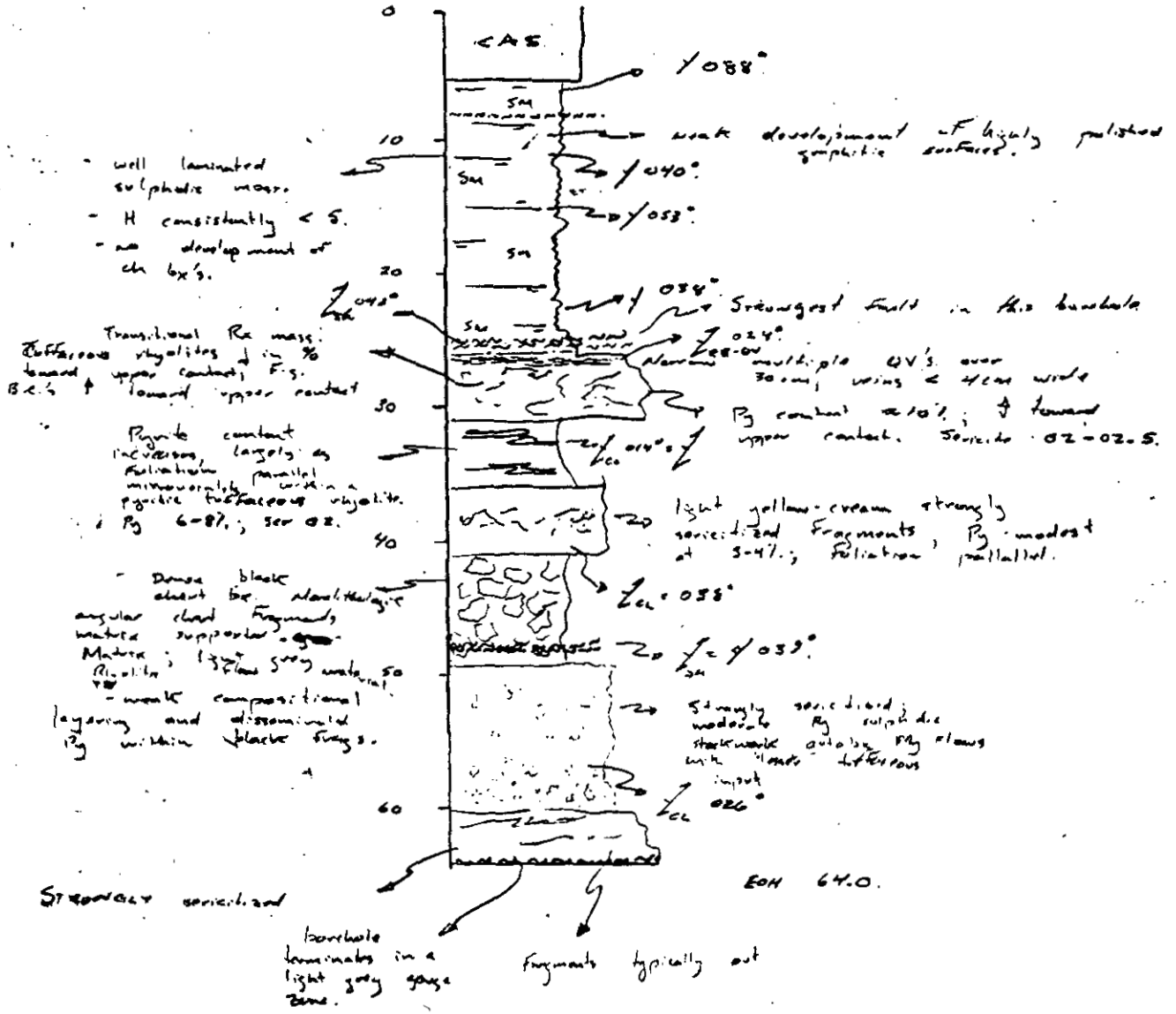
Lithology <50.4>-<64.0>  
 -See the 31.7 to 41.2 metre description

Structure  
 -Isolated foliated intervals at 52.0m (10cm wide), 53.5 - 54.0m, 55.8 - 56.2m,  
 57.5 - 58.0m, and 58.4 - 58.7 metres.  
 -Fault at 63.5 metres, gouge continues to 64.0m, the end of the hole.

Alteration  
 -Sericite alteration is weak to moderate throughout, and moderate in the  
 moderately foliated zones described in the Structure section.

Mineralization  
 -Traces of bleb pyrite are present within this unit, and are probably part of  
 the fragmental portion of the rock.

64.00 END OF HOLE.



## AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

## - SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-50	10114	5.18	6.18	1.00	0.03	0.001	-	-	-	1.4	317	105	133	2720	81	27	573	32500	1740
91-50	10115	6.18	7.18	1.00	0.03	0.001	-	-	-	0.7	311	88	134	2290	63	22	448	30990	390
91-50	10116	7.18	8.18	1.00	0.01	0.001	-	-	-	1.0	245	90	127	2050	74	26	647	35190	1230
91-50	10117	8.18	9.18	1.00	0.03	0.001	-	-	-	1.0	284	65	106	1620	55	24	819	22190	820
91-50	10118	9.18	10.18	1.00	0.01	0.001	-	-	-	1.0	215	68	84	2090	62	21	738	25290	1530
91-50	10119	10.18	11.18	1.00	0.03	0.001	-	-	-	3.9	517	100	135	3250	91	21	634	38960	570
91-50	10120	11.18	12.18	1.00	0.05	0.001	-	-	-	3.3	472	99	195	2880	87	23	868	34040	4280
91-50	10121	12.18	13.18	1.00	0.05	0.001	-	-	-	2.4	645	92	138	1580	79	18	796	34430	3020
91-50	10122	13.18	14.18	1.00	0.01	0.001	-	-	-	2.7	239	65	108	2700	54	15	506	23410	4750
91-50	10123	14.18	15.18	1.00	0.01	0.001	-	-	-	3.9	120	42	68	1020	35	19	369	18460	87640
91-50	10124	15.18	16.18	1.00	0.01	0.001	-	-	-	3.6	189	64	78	1230	47	22	384	29500	68210
91-50	10125	16.18	17.18	1.00	0.02	0.001	-	-	-	2.9	359	118	153	2850	111	23	818	53980	8030
91-50	10126	17.18	18.18	1.00	0.02	0.001	-	-	-	5.9	167	74	122	2420	83	16	902	34350	6520
91-50	10127	18.18	19.18	1.00	0.01	0.001	-	-	-	4.1	168	70	147	2280	81	52	780	37800	7990
91-50	10128	19.18	20.18	1.00	0.03	0.001	-	-	-	3.0	100	59	142	1500	58	21	732	29350	8050
91-50	10129	20.18	21.18	1.00	0.04	0.001	-	-	-	2.2	126	70	101	1450	58	22	442	38210	8310
91-50	10130	21.18	22.18	1.00	0.04	0.001	-	-	-	2.1	186	81	134	1280	63	16	370	41180	13740
91-50	10131	22.18	23.18	1.00	0.01	0.001	-	-	-	6.8	273	83	131	2380	60	21	535	39410	12130
91-50	10132	23.18	24.18	1.00	0.01	0.001	-	-	-	5.4	282	80	151	1300	65	19	776	30460	9540
91-50	10133	24.18	25.18	1.00	0.01	0.001	-	-	-	2.4	527	125	162	1580	82	19	603	42350	28840
91-50	10134	25.18	26.18	1.00	0.02	0.001	-	-	-	3.6	618	147	218	930	96	26	1049	43030	12180
91-50	10135	26.18	27.18	1.00	0.10	0.003	-	-	-	2.3	575	120	295	1230	58	29	505	35420	6140
91-50	10136	27.18	28.18	1.00	1.23	0.036	-	-	-	10.7	919	500	410	1640	35	25	395	23190	8310
91-50	10137	28.18	29.18	1.00	0.04	0.001	-	-	-	3.8	226	82	255	1370	28	23	407	22740	1530
91-50	10138	29.18	30.18	1.00	0.13	0.004	-	-	-	1.8	529	47	173	775	16	25	215	17120	12120
91-50	10139	30.18	31.18	1.00	0.01	0.001	-	-	-	1.7	229	38	130	720	8	26	205	16740	4550
91-50	10140	31.18	32.18	1.00	0.01	0.001	-	-	-	1.0	148	38	199	620	8	22	262	17300	3080
91-50	10141	32.18	33.18	1.00	-	-	3	-	-	0.5	154	56	149	-	13	27	441	20450	4550
91-50	10142	33.18	34.18	1.00	-	-	27	-	-	1.1	167	44	111	-	9	33	245	17450	1760
91-50	10143	34.18	35.18	1.00	-	-	60	-	-	1.4	304	36	279	-	7	21	127	17560	23760
91-50	10144	35.18	37.18	2.00	-	-	80	-	-	2.2	183	26	164	-	7	19	124	15320	7010
91-50	10145	37.18	39.18	2.00	-	-	379	-	-	4.0	416	51	244	-	8	33	148	23130	15930
91-50	10146	39.18	41.18	2.00	-	-	69	-	-	2.9	133	35	155	-	6	27	128	13620	8370
91-50	10147	41.18	43.18	2.00	-	-	12	-	-	2.0	107	29	112	-	5	25	95	11950	11230
91-50	10148	43.18	45.18	2.00	-	-	4	-	-	1.6	85	25	82	-	12	31	121	9610	5830
91-50	10149	45.18	47.18	2.00	-	-	2	-	-	1.6	49	17	48	-	5	22	89	5370	6750
91-50	10150	47.18	49.18	2.00	-	-	2	-	-	1.6	92	16	56	-	6	28	90	9330	7170
91-50	10151	49.18	51.18	2.00	-	-	1	-	-	1.7	59	13	38	-	5	34	75	8550	11180
91-50	10152	51.18	53.18	2.00	-	-	1	-	-	1.8	46	13	25	-	6	28	83	6050	9360
91-50	10153	53.18	55.18	2.00	-	-	1	-	-	1.8	55	13	198	-	8	27	117	7600	6910
91-50	10154	55.18	57.18	2.00	-	-	1	-	-	1.6	98	15	101	-	5	27	111	10190	4420
91-50	10155	57.18	59.18	2.00	-	-	2	-	-	1.5	64	13	94	-	5	25	124	7470	3950
91-50	10156	59.18	61.18	2.00	-	-	1	-	-	1.7	46	9	78	-	5	25	104	8530	4960
91-50	10157	61.18	63.18	2.00	-	-	1	-	-	1.6	46	8	66	-	5	25	100	9500	6740
91-50	10158	63.18	65.18	2.00	-	-	1	-	-	0.5	23	6	30	-	6	26	93	8470	7890
91-50	10159	65.18	67.18	2.00	-	-	1	-	-	0.4	17	5	50	-	6	22	100	9700	5060
91-50	10160	67.18	69.06	1.88	-	-	2	-	-	0.4	29	6	111	-	5	19	105	7430	6470

COMP: COPELAND, REBAGLIATI & ASSOC.

PROJ: 9101

ATTN: M. REBAGLIATI

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

(604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ3+4

DATE: 91/10/17

\* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
10062	.3	17040	15	8	61	2.3	2	4250	.1	3	5	15360	3030	19	20010	136	3	130	1	20	5	1	9	6	46	6.0	100	2	1	3	78	3	
10063	.3	22950	9	10	97	3.6	2	2830	.1	3	7	16680	5420	22	22690	119	3	100	1	10	11	1	8	6	51	3.9	108	3	1	2	51	4	
10065	.6	29770	7	10	117	5.1	2	4330	.1	3	5	19960	6750	30	28840	150	1	120	1	10	22	1	14	6	54	3.9	164	3	1	1	38	2	
10066	.6	24950	5	8	75	2.8	1	7310	.1	3	5	18050	4400	29	30160	192	1	190	1	40	16	1	20	5	64	5.4	102	1	1	2	62	2	
10067	.4	35720	1	10	114	4.1	2	4310	.1	3	5	23090	7080	39	38520	189	1	120	1	20	16	1	10	6	91	7.0	167	1	1	1	35	1	
10068	.4	39880	1	13	143	4.6	1	2370	.1	3	6	25210	8480	41	40250	177	1	140	1	40	4	1	7	8	102	6.4	176	1	1	1	26	3	
10069	.4	24100	52	7	102	2.4	2	8600	.1	19	21	24880	3990	31	26750	186	1	260	26	470	1	5	27	4	71	136.6	94	1	1	6	121	2	
10070	.3	19370	80	5	52	1.8	1	8550	.1	30	33	27630	3150	27	20990	167	1	420	46	690	5	8	23	1	69	155.3	71	1	1	7	141	5	
10071	.6	17080	12	24	59	2.6	1	11760	.1	3	6	13880	3950	20	19610	109	2	180	1	20	13	1	48	6	29	8.8	118	3	1	2	49	1	
10072	.3	23460	7	6	164	3.3	1	2900	.1	2	4	13260	4600	27	22790	68	1	140	1	10	12	1	10	6	43	3.0	91	3	1	3	65	1	
10073	.4	26080	1	6	70	3.6	2	2070	.1	2	15	17840	3780	34	31620	96	2	190	1	10	10	1	6	5	41	3.8	105	1	1	2	64	2	
10074	.2	33300	1	8	81	4.1	1	1680	.1	3	5	22660	4390	48	40700	113	1	190	1	10	3	1	6	3	55	7.7	121	1	1	1	37	1	
10075	.1	22460	74	6	35	2.5	1	8560	.1	23	28	36040	2090	32	29260	152	4	400	28	480	1	9	14	1	56	152.9	86	1	1	7	151	2	
10076	.1	19170	171	6	19	1.6	1	15000	.1	34	40	56560	870	30	26290	184	12	530	33	890	1	29	27	1	120	266.8	77	1	1	10	196	6	
10077	.1	14870	345	9	19	1.5	1	15450	.1	40	47	79570	1400	32	27190	223	7	430	37	960	1	65	29	1	45	223.7	108	1	1	8	169	3	
10078	.1	12680	263	7	27	1.7	1	15580	.1	37	47	60000	1380	22	23900	279	2	490	43	990	4	36	30	1	40	200.2	99	1	1	8	151	3	
10079	.1	25850	73	6	15	1.9	1	9080	.1	39	40	50300	660	46	37930	308	1	350	48	1090	1	19	15	1	75	292.7	105	1	1	10	216	1	
10080	.1	17640	313	9	16	1.5	1	8470	.1	31	38	92100	1000	28	24990	313	25	470	15	740	1	47	16	1	67	199.0	73	1	1	8	188	2	
10081	.6	28990	1	7	50	3.1	1	7090	.1	5	7	25050	2630	47	40470	131	2	240	1	40	2	1	19	1	49	20.7	108	1	1	2	76	1	
10082	.5	33650	1	8	82	4.5	1	8010	.1	3	6	23060	3930	54	47290	131	1	200	1	10	2	1	19	4	52	9.1	125	1	1	1	60	1	
10083	.5	19360	56	5	39	2.1	1	9360	.1	21	24	24780	1840	30	28730	145	1	380	29	500	8	12	21	1	52	119.0	85	1	1	7	152	1	
10084	.7	39160	1	9	135	5.3	1	7090	.1	4	6	24340	6270	64	48640	104	1	160	1	10	5	1	18	3	63	5.3	132	1	2	1	40	2	
10085	.5	35470	1	9	146	4.8	1	4570	.1	3	5	19350	7270	48	38110	64	1	110	1	10	9	1	10	4	66	4.0	131	1	1	1	30	1	
10086	.7	30960	9	11	154	3.9	2	5190	.1	2	5	15220	7860	33	28320	56	2	150	1	30	17	1	13	7	83	3.6	123	2	1	2	45	2	
10087	.7	32330	4	9	176	4.9	2	7080	.1	2	5	13530	10370	30	26280	73	1	100	1	10	25	1	19	7	87	3.3	185	3	1	1	26	2	
10088	.7	30480	43	8	169	5.1	2	2400	.1	2	7	20390	9250	29	23850	51	2	110	1	50	43	3	7	6	80	3.0	239	3	1	1	25	4	
10089	.6	33680	17	9	155	4.7	2	7980	.1	3	6	21040	8630	40	33230	78	2	90	1	30	23	1	26	7	79	3.3	188	1	1	1	14	2	
10090	.4	28050	20	7	158	5.0	2	3630	.1	2	16	18850	8880	28	23030	65	1	70	1	20	8	8	9	9	75	2.4	91	4	1	1	9	2	
10091	.3	22270	46	6	115	4.1	5	5060	.1	6	14	24680	6070	25	23770	79	3	80	1	110	9	5	12	7	51	12.2	121	2	1	1	24	7	
10092	.7	13150	34	11	89	3.1	5	5900	.1	6	17	17960	5380	12	15940	86	3	140	7	120	20	9	16	9	50	11.0	93	5	1	2	38	1	
10093	.6	14250	41	9	101	2.4	2	10780	.1	2	6	13480	5350	13	16720	158	1	60	1	70	22	3	29	8	41	2.9	112	4	1	1	27	2	
10094	1.0	9080	21	5	98	2.0	2	12510	.1	2	7	10050	4730	4	11380	237	3	70	2	60	23	4	29	8	27	2.9	141	6	1	2	46	2	
10095	.4	3990	39	3	54	1.5	1	20140	.1	4	29	20400	2560	4	10310	403	18	760	20	250	29	30	59	3	30	10.4	142	1	1	3	70	650	
10096	.5	4680	23	1	42	1.4	2	21310	.1	2	9	11170	2220	6	13100	232	3	110	4	50	14	6	77	5	9	4.6	81	3	1	6	145	250	
10097	.4	11990	25	2	85	2.8	4	8200	.1	5	11	15410	5040	8	13140	111	2	120	5	120	13	6	19	8	31	12.9	91	3	1	3	74	150	
10098	.4	14190	72	7	81	1.8	2	15150	.1	32	36	27130	3900	17	23990	259	1	300	46	810	8	18	35	2	35	108.0	99	1	1	8	161	300	
10099	.6	5800	22	1	62	1.3	1	16060	.1	3	6	10640	3330	1	8450	238	7	220	5	110	10	8	34	7	12	4.4	70	3	1	5	130	215	
10100	.9	5170	179	1	73	1.4	1	37750	2.2	6	20	30270	3230	1	17100	766	15	770	20	310	117	113	77	1	15	13.9	556	1	1	5	119	1520	
10101	5.0	2860	41	1	64	1.3	1	14670	.1	6	10	10870	1980	1	9570	258	2	40	8	110	17	17	32	5	9	3.7	104	3	1	3	65	370	
10102&10103	5.6	3490	203	1	56	1.7	1	13190	.1	7	9	18080	2320	1	13530	352	1	50	10	80	14	13	23	8	19	3.7	143	2	1	3	68	285	
10104	.5	5810	78	4	106	1.0	1	9040	.1	5	12	9420	3340	1	4050	226	8	60	4	220	31	22	11	2	33	4.6	60	2	1	4	83	1	
10105	.2	18850	69	7	84	1.3	1	22030	.1	12	18	52220	2790	20	20100	986	1	260	1	2300	9	6	29	1	212	42.8	100	1	1	2	35	1	
10106	.1	25640	1	7	103	1.5	1	16640	.1	11	12	56910	2900	24	19630	633	1	280	1	2790	1	1	26	1	262	46.1	97	1	1	2	34	3	
10107	.3	23900	12	7	87	1.3	3	20100	.1	13	25	56790	2950	22	20420	707	1	260	1	2770	8	1	35	1	297	42.7	125	2	1	2	33	1	
10108	1.0	19760	24	5	171	1.2	5	23850	.1	12	21	48990	2780	17	19010	1042	1	240	1	2430	15	5	34	2	322	40.1	91	5	1	3	33	2	
10109	1.0	21790	22	5	440	1.0	5	47110	.1	12	9	51200	2310	19	18850	1718	1	220	1	2200	10	3	46	1	289	38.4	84	5	1	2	33	2	
10110	.2	25770	11	6	194	1.0	3	23530	.1	14	7	59410	2970	21	19910	1039	1	220	1	2370	7	1	34	1	366	37.7	109	3	1	2	35	1	
10111	.1	16990	55																														

COMP: COPELAND, REBAGLIATI & ASSOC.

PROJ: 9101

ATTN: M.REBAGLIATI

MIN-EN LABS — ICP REPORT  
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
(604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ5+6

DATE: 91/10/17

\* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	Tl PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
10122	.4	7470	239	1	108	1.6	1	4750	3.5	7	54	23410	3750	1	860	111	41	1400	87	750	15	65	9	1	24	49.0	506	1	1	3	52	2700	
10123	1.3	4090	120	1	68	.9	2	87640	3.7	5	35	18460	2270	1	2140	1754	21	1300	41	790	19	42	82	1	12	25.5	369	4	1	2	32	1020	
10124	.9	4630	189	1	78	1.0	2	68210	2.8	7	47	29500	2610	1	2360	2507	36	1360	66	890	22	64	68	1	16	31.1	384	1	1	2	31	1230	
10125	1.2	10490	359	1	153	1.9	1	8030	8.6	15	111	53980	5270	1	2660	597	22	1140	58	760	23	118	14	1	30	64.9	818	1	1	2	34	2850	
10126	1.7	7570	167	1	122	1.5	1	6520	14.3	9	83	34350	3910	2	2320	292	16	1240	51	420	16	74	12	1	23	51.4	902	1	1	2	26	2420	
10127	1.9	10050	168	1	147	1.6	1	7990	8.2	10	81	37800	4800	1	3480	347	17	5300	56	480	52	70	17	1	23	62.2	780	1	1	2	36	2280	
10128	.7	9140	100	1	142	1.9	1	8050	8.3	8	58	29350	4320	2	5740	348	26	2080	62	550	21	59	23	2	24	49.9	732	1	1	2	30	1500	
10129	.2	6180	126	1	101	1.6	1	8310	1.5	12	58	38210	2850	1	6400	433	21	2520	50	610	22	70	27	1	25	37.6	442	1	1	2	21	1450	
10130	.1	7350	186	1	134	1.5	1	13740	.2	15	63	41180	3360	7	9000	658	16	1520	32	540	16	81	62	1	24	50.1	370	1	1	3	65	1280	
10131	.1	6880	273	7	131	1.3	1	12130	2.2	10	60	39410	3210	8	6260	520	27	1140	69	1140	21	83	40	2	32	48.2	535	1	1	2	42	2380	
10132	.2	7070	282	3	151	1.1	1	9540	6.5	9	65	30460	3410	4	5350	280	27	1580	72	680	19	80	23	1	28	50.4	776	1	1	2	28	1300	
10133	.4	7470	527	3	162	1.4	1	28840	3.0	13	82	42350	3620	1	4830	1122	43	1460	87	1310	19	125	38	1	27	54.6	603	1	1	1	21	1580	
10134	.5	9980	618	4	218	1.6	1	12180	7.1	10	96	43030	4780	1	4170	416	56	2020	110	640	26	147	22	1	29	87.0	1049	1	1	2	24	930	
10135	.3	8820	575	2	295	1.7	1	6140	2.9	7	58	35420	4340	1	2230	180	45	3040	80	470	29	120	12	2	28	38.0	505	1	1	2	49	1230	
10136	9.8	7100	919	1	410	1.3	1	8310	.1	5	35	23190	3520	2	2500	128	26	1780	41	340	25	500	37	4	23	20.7	395	1	1	4	101	1640	
10137	.2	8260	226	1	255	1.5	1	1530	2.6	4	28	22740	4310	2	1160	53	48	1040	36	120	23	82	4	4	38	21.8	407	1	1	4	91	1370	
10138	.3	6250	529	1	173	1.4	2	12120	.1	2	16	17120	3510	3	2300	87	34	1110	4	50	25	47	43	7	37	2.0	215	1	1	4	89	775	
10139	.2	5400	229	1	130	1.3	2	4550	.1	2	8	16740	2880	1	1780	45	14	1130	14	30	26	38	12	4	24	2.6	205	1	1	4	94	720	
10140	.2	8780	148	1	199	1.5	1	3080	.1	2	8	17300	4690	4	2010	28	16	70	14	10	22	38	9	7	31	3.1	262	1	1	3	64	620	
10141	.5	6350	154	1	149	1.2	1	4550	.1	3	13	20450	3410	2	2220	44	22	1140	24	20	27	56	12	5	36	3.1	441	2	1	4	86	3	
10142	1.1	4600	167	1	111	1.3	2	1760	.1	2	9	17450	2570	2	1170	16	12	1140	18	30	33	44	5	5	22	2.0	245	4	1	3	57	27	
10143	1.4	6590	304	1	279	1.4	2	23760	.1	3	7	17560	3550	3	5320	323	10	70	3	20	21	36	49	6	38	2.9	127	4	1	4	80	60	
10144	2.2	7280	183	1	164	1.4	3	7010	.1	2	7	15320	3570	4	2620	59	14	70	4	20	19	26	12	7	37	2.5	124	8	1	5	90	80	
10145	4.0	9050	416	1	244	1.8	4	15930	.1	3	8	23130	4510	4	3350	165	15	820	4	30	33	51	27	8	45	2.8	148	7	2	4	82	379	
10146	2.9	7030	133	19	155	1.6	4	8370	.1	2	6	13620	3520	3	2690	71	11	110	7	20	27	35	19	8	38	2.5	128	8	1	5	88	69	
10147	2.0	5030	107	1	112	1.3	3	11230	.1	2	5	11950	2730	2	1900	92	8	80	1	20	25	29	22	8	33	2.1	95	7	1	4	94	12	
10148	1.6	5040	85	1	82	1.4	3	5830	.1	2	12	9610	1980	5	3320	58	9	850	2	40	31	25	10	7	26	1.9	121	7	1	4	80	4	
10149	1.6	3090	49	1	48	.6	3	6750	.1	1	5	5370	1080	3	2110	79	4	1110	2	20	22	17	10	6	23	1.9	89	8	1	5	123	2	
10150	1.6	2720	92	1	56	.8	3	7170	.1	2	6	9330	1210	2	3050	89	9	1290	2	30	28	16	18	7	24	2.0	90	7	1	5	106	2	
10151	1.7	2040	59	1	38	.6	3	11180	.1	2	5	8550	950	2	5390	116	5	460	3	40	34	13	31	6	19	2.6	75	8	1	7	150	1	
10152	1.8	2020	46	1	25	.5	3	9360	.1	1	6	6050	770	2	4260	87	9	1480	4	40	28	13	29	7	23	2.7	83	8	1	7	152	1	
10153	1.8	4670	55	1	198	1.2	3	6910	.1	2	8	7600	1810	4	4710	87	6	980	3	20	27	13	23	7	29	2.4	117	8	1	6	146	1	
10154	1.6	9900	98	1	101	2.1	4	4420	.1	2	5	10190	3490	8	7240	71	8	170	2	30	27	15	12	9	34	2.3	111	9	1	5	108	1	
10155	1.5	8270	64	1	94	2.3	4	3950	.1	2	5	7470	3660	7	5220	60	7	140	3	30	25	13	10	9	32	2.1	124	9	1	4	81	2	
10156	1.7	7370	46	1	78	2.0	3	4960	.1	2	5	8530	3060	7	6990	82	7	180	2	20	25	9	14	8	38	2.4	104	9	1	5	86	1	
10157	1.6	6890	46	1	66	1.6	3	6740	.1	2	5	9500	2420	7	8140	103	3	200	1	20	25	8	25	8	23	2.4	100	8	1	4	79	1	
10158	.5	3700	23	12	30	1.1	2	7890	.1	1	6	8470	1150	5	6700	90	2	200	1	20	26	6	25	3	12	1.5	93	2	1	4	82	1	
10159	.4	6330	17	9	50	1.3	1	5060	.1	1	6	9700	1430	8	7340	90	4	320	1	30	22	5	14	3	19	1.0	100	3	1	4	79	1	
10160	.4	3150	29	6	111	1.8	2	6470	.1	1	5	7430	1680	2	4110	69	2	100	1	10	19	6	19	4	15	.8	105	2	1	3	67	2	
10161	.7	6860	599	1	94	2.1	1	1720	.1	2	8	20350	3530	1	990	13	23	50	4	20	37	52	4	8	28	1.1	288	1	1	2	49	720	
10162	.1	8700	304	1	128	1.8	1	990	.1	3	19	25950	4500	3	1090	20	19	890	17	30	19	45	3	4	29	8.5	260	1	1	5	114	595	
10163	.1	8120	1278	7	69	2.0	1	2930	.1	11	30	143530	4210	1	1650	32	73	990	1	10	8	68	5	1	29	7.6	256	1	1	2	52	1600	
10164	.1	8540	365	1	114	2.0	1	1760	7.5	7	56	32050	4450	5	1100	88	42	2110	93	290	27	93	4	1	31	56.6	815	1	1	3	31	675	
10165	.1	10900	454	1	138	2.4	1	1880	.5	8	54	40220	5550	3	1340	87	28	1020	53	280	14	93	4	1	27	33.1	378	1	1	3	27	550	
10166	.1	11450	297	1	145	2.0	1	2230	1.4	7	47	29460	5840	4	1460	79	28	1350	65	380	19	87	5	1	37	54.3	495	1	1	4	56	575	
10167	.2	12720	241	1	160	2.3	1	2810	2.1	8	62	26690	6310	4	1610	103	42	1830	96	550	27	95	7	1	40	65.4	528	1	1	3	39	560	
10168	.3	10640	802	1	145	2.4	1	2350	5.5	10	86	35350	5430	4	1380	116	44	2030	108	420	35	133	5	1	33	64.7	856	1	1	4	55</		



**MIN-EN LABORATORIES**  
 (DIVISION OF ASSAYERS CORP.)

91-50

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
 CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:  
 705 WEST 15TH STREET  
 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
 TELEPHONE (604) 980-5814 OR (604) 988-4524  
 FAX (604) 980-9621

**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Assay Certificate

1S-0124-RA2

Company: COPELAND REBAGLIATI & ASSOC.  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-18-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

We hereby certify the following Assay of 23 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton
10114	.03	.001
10115	.03	.001
10116	.01	.001
10117	.03	.001
10118	.01	.001
10119	.03	.001
10120	.05	.001
10121	.05	.001
10122	.01	.001
10123	.01	.001
10124	.01	.001
10125	.02	.001
10126	.02	.001
10127	.01	.001
10128	.03	.001
10129	.04	.001
10130	.04	.001
10131	.01	.001
10132	.01	.001
10133	.01	.001
10134	.02	.001
10135	.10	.003
10136	1.23	.036
10137	.04	.001
10138	.13	.004
10139	.01	.001
10140	.01	.001

Certified by

MIN-EN LABORATORIES



**MIN-EN LABORATORIES**  
 (DIVISION OF ASSAYERS CORP.)

91-50

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
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**VANCOUVER OFFICE:**  
 105 WEST 15TH STREET  
 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
 TELEPHONE (604) 980-5814 OR (604) 988-4524  
 FAX (604) 980-9621

**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Geochemical Analysis Certificate

1S-0124-RG2

Company: COPELAND REBAGLIATI & ASSOC.  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-18-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify* the following Geochemical Analysis of 23 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.

Sample Number	AG PPM
10114	1.4
10115	0.7
10116	1.0
10117	1.0
10118	1.0
10119	3.9
10120	3.3
10121	2.4
10122	2.7
10123	3.9
10124	3.6
10125	2.9
10126	5.9
10127	4.1
10128	3.0
10129	2.2
10130	2.1
10131	6.8
10132	5.4
10133	2.4
10134	3.6
10135	2.3
10136	10.7
10137	3.8
10138	1.8
10139	1.7
10140	1.0

Certified by

MIN-EN LABORATORIES



AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD.

91-51

SIB PROPERTY

DIAMOND DRILL LOG

NTS MAP # : 1048/9	CLAIM # : SIB 12, 33, 35	
LOCAL GRID : 8861.67 N / 9704.48 E	GLOBAL GRID : 13250.55 N / 17748.84 E	
LENGTH : 67.00 m	INCLINATION : -46.0 degrees	ELEVATION : 986.39 metres
OVERBURDEN : 5.30 m	CASING : 5.30 metres	AZIMUTH : 113.0 degrees
LOGGED BY : Paul Lawnikanis	DRILLED BY : J.T. Thomas	ASSAYING BY : Min-En Labs
DATE LOGGED : 1991/07/05	DATE DRILLED : 1991/07/04	CORE LOCATION: 86+30 N, 96+70 E
Y/M/D	Y/M/D	SAMPLE NO. SERIES : 10161-10198

## SUMMARY LOG

91-51

From(m)	To(m)	Field Name (Legend)
0.00	5.30	CASING
5.30	11.00	BLACK CHERT - CHERT BRECCIA (3.3), GREEN-BLACK RHYOLITIC FLOW (3.2)
11.00	19.00	SULPHIDIC MUDSTONE AND CHERT (3.5), TURBIDITIC MUDSTONE (3.6)
19.00	21.00	TURBIDITIC MUDSTONE (3.6)
21.00	26.50	BLACK CHERT - CHERT BRECCIA (3.3) +/- GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)
26.50	31.00	SULPHIDIC MUDSTONE AND CHERT (3.5), TURBIDITIC MUDSTONE (3.6)
31.00	36.00	BLACK CHERT - CHERT BRECCIA (3.3)
36.00	47.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
47.00	57.60	CHERTY RHYOLITIC FLOW (3.7)
57.60	67.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
67.00		END OF HOLE.

## ANALYTICAL HIGHLIGHTS

91-51

From(m)	To(m)	Length(m)	Au g/t	Au Oz/ton	Ag g/t	Ag Oz/ton	% Pb	% Zn
18.80	22.00	3.20	0.80	0.023	3.1	0.09		
27.00	31.00	4.00	0.63	0.018	3.8	0.11		
39.00	43.00	4.00	0.43	0.012	2.1	0.06		

From(m) To(m) -----Description-----

0.00 5.30 CASING  
 5.30 11.00 BLACK CHERT - CHERT BRECCIA (3.3), GREEN-BLACK RHYOLITIC FLOW (3.2)

Lithology <5.3>-<7.0>

- Greyish, green, 50% clasts (lapilli size range) and 50% sericitic matrix
- Bedding and/or foliation is 70 - 90 degrees to c/a. Top of the unit has a 3cm of gouge like cemented interval.
- Unit has weak sericite alteration and chloritic rich networks surrounding larger clasts.
- Lower contact is not gradational, and changes to next unit within a 15cm fractured section. This may be due to a series of faults present at 7.3m and 8.8m(See below).

11.00 19.00 SULPHIDIC MUDSTONE AND CHERT (3.5), TURBIDITIC MUDSTONE (3.6)  
 19.00 21.00 TURBIDITIC MUDSTONE (3.6)  
 21.00 26.50 BLACK CHERT - CHERT BRECCIA (3.3) +/- GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)  
 26.50 31.00 SULPHIDIC MUDSTONE AND CHERT (3.5), TURBIDITIC MUDSTONE (3.6)

Lithology <7.0>-<32.4>

- Black to dark grey argillaceous and graphitic unit with upper and lower transition zones that are defined by percentage of volcanic and detrital debris.
- From 7.0 - 10.8m and from 19.2 - 25.8, there is subunit within the "Lulu Mudstone" that contains 50 - 60% volcanically derived debris (clasts, fragments and crystals). This subunit is dark grey with an average of 2 - 3% pyrite, but some zones have up to 10 - 15% pyrite. From 10.2 - 10.8 metres; the sulphide (pyrite) is concentrated in a 20cm band with 10% pyrite, a 35cm band of 40 - 50% pyrite (semi-massive sulphide texture), and a lower 15cm band of 15% pyrite. Both diagenetic and hydrothermal pyrite are present in these intervals.
- The "Lulu Mudstone" is made up of very thin argillaceous bands that alternate with silty and pyrite rich bands. Laminae and beds range from 1 - 20 mm in thickness.
- Sedimentary structures such as laminae, slumps, flute casts, and microfaults are numerous.

Structure

- Bedding planes commonly measure from 40 - 60 degrees, with an average of 52 degrees to c/a.
- The unit is weakly sheared in places, and this changes the foliation to 25 - 35 degrees to c/a.
- Fractured and broken core intervals are common and may be related to fault zones found between 7.0 and 8.8 metres, and 27.2 - 32.7 metres.
- Fault slips and gouge zones at 7.3m, 8.8m, 27.2m, 28.5m, 29.2m, 29.4m, 30.0, and 31.3 metres.

Alteration

Very weak sericite and chlorite alteration in the more volcanic (component) rich sections eg.: 7.0 - 10.8, 19.2 - 25.8, and 31.7 - 32.4 metres.

From(m)	To(m)	Description
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Mineralization

-In the "Lulu Mudstone" proper; the pyrite is both syngenetic and hydrothermal. The syngenetic pyrite is found in bands, while the later pyrite appears as small subhedral crystals in non-pyrite rich zones.

31.00	36.00	BLACK CHERT - CHERT BRECCIA (3.3)
36.00	47.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)

Lithology <32.4>-<47.0>

-Medium grey with some dark patches.  
 -60% Matrix, 40% Clasts, with fragments in the dacitic composition range, crystals are rare.  
 -Fragments from 4 to 35 mm, with a mean size of 1.0cm.  
 -Degree of shearing and matrix alteration makes textural and fabric identification difficult.

Structure

-Abundant sheared intervals over the unit. Core axis angles from 0 to 20 degrees; with an average of 13 degrees to c/a.  
 -Both contacts are weakly sheared, and the more intense shearing is from 38.0 - 45.3 metres.

Alteration

-Weak to moderate sericite and weak to very weak chlorite alteration.  
 -Moderate sericite alteration in strongly sheared zones.

Mineralization

-The entire interval from 32.4 - 47.0m contains only trace pyrite, but two isolated zones from 37.8 - 38.2m and 43.1 - 43.3m have 2% pyrite.

47.00	57.60	CHERTY RHYOLITIC FLOW (3.7)
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Lithology

-Medium to dark grey overall, but matrix is light grey, and the fragments are dark to black.  
 -30 to 40% siliceous volcanic or mudstone type angular fragments in a 60 to 70% greyish-green feldspar rich matrix.  
 -Breccia type texture, but may be akin to a debris flow. Fragments average 2 - 3cm, and 5mm or less subrounded fragments are in the matrix.

Structure

-Small 5 - 10cm gouge zones -implying faulting or slips, at 47.6m, 50.0m, 51.7m.  
 -Isolated sheared intervals marked by broken core.

From (m)      To (m)      -----Description-----

Alteration

-Weak sericite alteration in the matrix.

Mineralization

-No pyritic Zones.

Veining

-Isolated 3-5mm quartz-feldspar veins from 47.0 - 50.0m.

-6cm buff quartz vein at 51.6m, barren.

57.60      67.00      TUFFACEOUS RHYOLITE -SERICITE (3.9a)

Lithology

-See 32.4 - 47.0m description.

Structure

-Fault Zone from 58.6 - 61.0 metres; entire zone is sheared with gouge zones at 58.7m, 59.3m and 60.8m. Weak sericite, chlorite and very weak potassic? alteration in the fault zone.

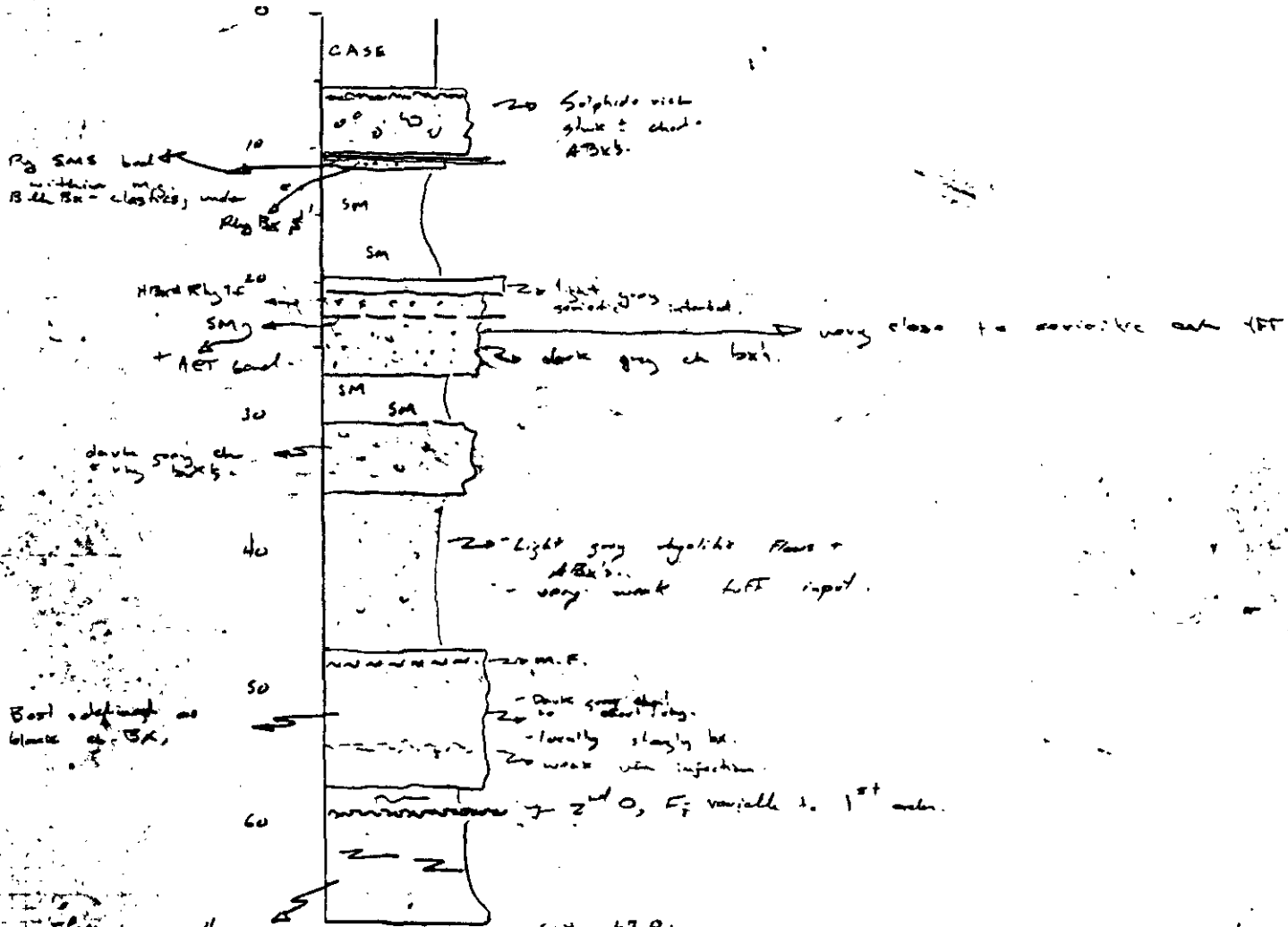
-Shear zones at 57.85 to 58.6 metres, with core axis angles from 5 to 10 degrees; and at 61.5 to 63.0 metres with core axis angles from 25 -35 degrees.

Alteration

-Weak to moderate sericite alteration

Chlorite alteration is weak to very weak, and chlorite is more common enveloping larger clasts.

67.00      END OF HOLE.



Carbon grey, yellow, argillite tuffs and fluvial flow. Not to 2-4 ft.

Stevenson Data - strongest detachment at 58.2 ft.

81.4  
67.0  
93.5  
2.8  
445.0

16.8	∠ 023°	39.0	∠ 012°	46.8	Comp Layer	to chert out.
0.5	∠ 032° = ∠	21.8	∠ 020 (definite Fl.)	59.0	sh zone	used.
20.1	∠ 47°	42.4	∠ 18°	66.0	∠ 025	

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91-51	10161	6.10	9.14	3.04	0.13	0.004	-	-	-	0.7	599	52	94	720	8	37	288	20350	1720
91-51	10162	9.14	10.20	1.06	0.04	0.001	-	-	-	2.0	304	45	128	595	19	19	260	25950	990
91-51	10163	10.20	10.80	0.60	0.28	0.008	-	-	-	1.8	1278	68	69	1600	30	8	256	143530	2930
91-51	10164	10.80	11.80	1.00	0.01	0.001	-	-	-	3.0	365	93	114	675	56	27	815	32050	1760
91-51	10165	11.80	12.80	1.00	0.02	0.001	-	-	-	1.1	454	93	138	550	54	14	378	40220	1880
91-51	10166	12.80	13.80	1.00	0.01	0.001	-	-	-	2.2	297	87	145	575	47	19	495	29460	2230
91-51	10167	13.80	14.80	1.00	0.01	0.001	-	-	-	1.7	241	95	160	560	62	27	528	26690	2810
91-51	10168	14.80	15.80	1.00	0.11	0.003	-	-	-	1.5	802	133	145	400	86	35	856	35350	2350
91-51	10169	15.80	16.80	1.00	0.27	0.008	-	-	-	2.9	523	91	157	480	48	21	381	24810	710
91-51	10170	16.80	17.80	1.00	0.26	0.008	-	-	-	2.5	862	141	157	375	92	37	1210	37580	2280
91-51	10171	17.80	18.80	1.00	0.11	0.003	-	-	-	1.0	279	67	78	900	36	17	416	18180	920
91-51	10172	18.80	19.80	1.00	0.37	0.011	-	-	-	2.1	530	79	74	800	25	19	318	22240	930
91-51	10173	19.80	20.80	1.00	1.27	0.037	-	-	-	4.9	1217	119	162	1110	11	33	153	42430	5250
91-51	10174	20.80	22.00	1.20	0.76	0.022	-	-	-	2.5	932	82	92	1400	12	23	219	33480	2060
91-51	10175	22.00	23.00	1.00	0.20	0.006	-	-	-	1.2	677	50	114	1300	15	30	227	24410	1250
91-51	10176	23.00	23.50	0.50	0.14	0.004	-	-	-	2.0	381	68	139	1850	32	32	317	21220	1560
91-51	10177	23.50	25.00	1.50	0.08	0.002	-	-	-	0.9	538	45	146	2280	11	26	215	21570	1470
91-51	10178	25.00	27.00	2.00	0.25	0.007	-	-	-	1.3	648	69	157	1620	25	26	339	32060	1480
91-51	10179	27.00	29.00	2.00	0.59	0.017	-	-	-	2.7	492	124	271	3750	68	21	721	30090	2390
91-51	10180	29.00	31.00	2.00	0.66	0.019	-	-	-	4.8	413	248	292	1200	51	19	487	26350	4860
91-51	10181	31.00	33.00	2.00	0.05	0.001	-	-	-	0.7	104	54	298	1185	10	29	299	15180	3700
91-51	10182	33.00	35.00	2.00	-	-	23	-	-	0.3	118	35	73	-	6	28	178	14570	4790
91-51	10183	35.00	37.00	2.00	-	-	125	-	-	0.7	208	29	65	-	5	14	109	12720	2480
91-51	10184	37.00	39.00	2.00	-	-	153	-	-	1.3	515	37	55	-	6	22	88	25720	6080
91-51	10185	39.00	41.00	2.00	-	-	350	-	-	2.0	485	36	50	-	6	16	103	17580	11880
91-51	10186	41.00	43.00	2.00	-	-	501	-	-	2.2	648	44	71	-	6	20	103	19370	11660
91-51	10187	43.00	45.00	2.00	-	-	60	-	-	1.6	148	33	56	-	7	22	131	17140	8940
91-51	10188	45.00	47.00	2.00	-	-	152	-	-	1.3	93	11	18	-	2	8	35	3580	3090
91-51	10189	47.00	49.00	2.00	-	-	1	-	-	0.5	37	8	39	-	5	22	85	5920	6400
91-51	10190	49.00	51.00	2.00	-	-	2	-	-	0.5	37	8	44	-	5	22	123	6290	3450
91-51	10191	51.00	53.00	2.00	-	-	2	-	-	0.5	30	7	26	-	5	25	98	6070	5070
91-51	10192	53.00	55.00	2.00	-	-	1	-	-	0.6	26	9	96	-	7	23	117	7330	7610
91-51	10193	55.00	57.00	2.00	-	-	3	-	-	0.5	30	9	45	-	5	26	93	7780	4270
91-51	10194	57.00	59.00	2.00	-	-	1	-	-	0.6	35	9	75	-	21	24	102	6780	5540
91-51	10195	59.00	61.00	2.00	-	-	1	-	-	0.6	64	13	61	-	6	20	97	10770	8950
91-51	10196	61.00	63.00	2.00	-	-	2	-	-	0.5	36	12	63	-	5	31	131	9100	3270
91-51	10197	63.00	65.00	2.00	-	-	1	-	-	0.5	26	5	45	-	5	22	105	10220	6970
91-51	10198	65.00	67.00	2.00	-	-	1	-	-	0.5	24	6	50	-	5	24	112	9370	3260

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ5+6  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
10122	.4	7470	239	1	108	1.6	1	4750	3.5	7	54	23410	3750	1	860	111	41	1400	87	750	15	65	9	1	24	49.0	506	1	1	3	52	2700	
10123	1.3	4090	120	1	68	.9	2	87640	3.7	5	35	18460	2270	1	2140	1754	21	1300	41	790	19	42	82	1	12	25.5	369	4	1	2	32	1020	
10124	.9	4630	189	1	78	1.0	2	68210	2.8	7	47	29500	2610	1	2360	2507	36	1360	66	890	22	64	68	1	16	31.1	384	1	1	2	31	1230	
10125	1.2	10490	359	1	153	1.9	1	8030	8.6	15	111	53980	5270	1	2660	597	22	1140	58	760	23	118	14	1	30	64.9	818	1	1	2	34	2850	
10126	1.7	7570	167	1	122	1.5	1	6520	14.3	9	83	34350	3910	2	2320	292	16	1240	51	420	16	74	12	1	23	51.4	902	1	1	2	26	2420	
10127	1.9	10050	168	1	147	1.6	1	7990	8.2	10	81	37800	4800	1	3480	347	17	5300	56	480	52	70	17	1	23	62.2	780	1	1	2	36	2280	
10128	.7	9140	100	1	142	1.9	1	8050	8.3	8	58	29350	4320	2	5740	348	26	2080	62	550	21	59	23	2	24	49.9	732	1	1	2	30	1500	
10129	.2	6180	126	1	101	1.6	1	8310	1.5	12	58	38210	2850	1	6400	433	21	2520	50	610	22	70	27	1	25	37.6	442	1	1	2	21	1450	
10130	.1	7350	186	1	134	1.5	1	13740	.2	15	63	41180	3360	7	9000	658	16	1520	32	540	16	81	62	1	24	50.1	370	1	1	3	65	1280	
10131	.1	6880	273	7	131	1.3	1	12130	2.2	10	60	39410	3210	8	6260	520	27	1140	69	1140	21	83	40	2	32	48.2	535	1	1	2	42	2380	
10132	.2	7070	282	3	151	1.1	1	9540	6.5	9	65	30460	3410	4	5350	280	27	1580	72	680	19	80	23	1	28	50.4	776	1	1	2	28	1300	
10133	.4	7470	527	3	162	1.4	1	28840	3.0	13	82	42350	3620	1	4830	1122	43	1460	87	1310	19	125	38	1	27	54.6	603	1	1	1	21	1580	
10134	.5	9980	618	4	218	1.6	1	12180	7.1	10	96	43030	4780	1	4170	416	56	2020	110	640	26	147	22	1	29	87.0	1049	1	1	2	24	930	
10135	.3	8820	575	2	295	1.7	1	6140	2.9	7	58	35420	4340	1	2230	180	45	3040	80	470	29	120	12	2	28	38.0	505	1	1	2	49	1230	
10136	9.8	7100	919	1	410	1.3	1	8310	.1	5	35	23190	3520	2	2500	128	26	1780	41	340	25	500	37	4	23	20.7	395	1	1	4	101	1640	
10137	.2	8260	226	1	255	1.5	1	1530	2.6	4	28	22740	4310	2	1160	53	48	1040	36	120	23	82	4	4	38	21.8	407	1	1	4	91	1370	
10138	.3	6250	529	1	173	1.4	2	12120	.1	2	16	17120	3510	3	2300	87	34	1110	4	50	25	47	43	7	37	2.0	215	1	1	4	89	775	
10139	.2	5400	229	1	130	1.3	2	4550	.1	2	8	16740	2880	1	1780	45	14	1130	14	30	26	38	12	4	24	2.6	205	1	1	4	94	720	
10140	.2	8780	148	1	199	1.5	1	3080	.1	2	8	17300	4690	4	2010	28	16	70	14	10	22	38	9	7	31	3.1	262	1	1	3	64	620	
10141	.5	6350	154	1	149	1.2	1	4550	.1	3	13	20450	3410	2	2220	44	22	1140	24	20	27	56	12	5	36	3.1	441	2	1	4	86	3	
10142	1.1	4600	167	1	111	1.3	2	1760	.1	2	9	17450	2570	2	1170	16	12	1140	18	30	33	44	5	5	22	2.0	245	4	1	3	57	27	
10143	1.4	6590	304	1	279	1.4	2	23760	.1	3	7	17560	3550	3	5320	323	10	70	3	20	21	36	49	6	38	2.9	127	4	1	4	80	60	
10144	2.2	7280	183	1	164	1.4	3	7010	.1	2	7	15320	3570	4	2620	59	14	70	4	20	19	26	12	7	37	2.5	124	8	1	5	90	80	
10145	4.0	9050	416	1	244	1.8	4	15930	.1	3	8	23130	4510	4	3350	165	15	820	4	30	33	51	27	8	45	2.8	148	7	2	4	82	379	
10146	2.9	7030	133	19	155	1.6	4	8370	.1	2	6	13620	3520	3	2690	71	11	110	7	20	27	35	19	8	38	2.5	128	8	1	5	88	69	
10147	2.0	5030	107	1	112	1.3	3	11230	.1	2	5	11950	2730	2	1900	92	8	80	1	20	25	29	22	8	33	2.1	95	7	1	4	94	12	
10148	1.6	5040	85	1	82	1.4	3	5830	.1	2	12	9610	1980	5	3320	58	9	850	2	40	31	25	10	7	26	1.9	121	7	1	4	80	4	
10149	1.6	3090	49	1	48	.6	3	6750	.1	1	5	5370	1080	3	2110	79	4	1110	2	20	22	17	10	6	23	1.9	89	8	1	5	123	2	
10150	1.6	2720	92	1	56	.8	3	7170	.1	2	6	9330	1210	2	3050	89	9	1290	2	30	28	16	18	7	24	2.0	90	7	1	5	106	2	
10151	1.7	2040	59	1	38	.6	3	11180	.1	2	5	8550	950	2	5390	116	5	460	3	40	34	13	31	6	19	2.6	75	8	1	7	150	1	
10152	1.8	2020	46	1	25	.5	3	9360	.1	1	6	6050	770	2	4260	87	9	1480	4	40	28	13	29	7	23	2.7	83	8	1	7	152	1	
10153	1.8	4670	55	1	198	1.2	3	6910	.1	2	8	7600	1810	4	4710	87	6	980	3	20	27	13	23	7	29	2.4	117	8	1	6	146	1	
10154	1.6	9900	98	1	101	2.1	4	4420	.1	2	5	10190	3490	8	7240	71	8	170	2	30	27	15	12	9	34	2.3	111	9	1	5	108	1	
10155	1.5	8270	64	1	94	2.3	4	3950	.1	2	5	7470	3660	7	5220	60	7	140	3	30	25	13	10	9	32	2.1	124	9	1	4	81	2	
10156	1.7	7370	46	1	78	2.0	3	4960	.1	2	5	8530	3060	7	6990	82	7	180	2	20	25	9	14	8	28	2.4	104	9	1	5	86	1	
10157	1.6	6890	46	1	66	1.6	3	6740	.1	2	5	9500	2420	7	8140	103	3	200	1	20	25	8	25	8	23	2.4	100	8	1	4	79	1	
10158	.5	3700	23	12	30	1.1	2	7890	.1	1	6	8470	1150	5	6700	90	2	200	1	20	26	6	25	3	12	1.5	93	2	1	4	82	1	
10159	.4	6330	17	9	50	1.3	1	5060	.1	1	6	9700	1430	8	7340	90	4	320	1	30	22	5	14	3	19	1.0	100	3	1	4	79	1	
10160	.4	3150	29	6	111	1.8	2	6470	.1	1	5	7430	1680	2	4110	69	2	100	1	10	19	6	19	4	15	.8	105	2	1	3	67	2	
10161	.7	6860	599	1	94	2.1	1	1720	.1	2	8	20350	3530	1	990	13	23	50	4	20	37	52	4	8	28	1.1	288	1	1	2	49	720	
10162	.1	8700	304	1	128	1.8	1	990	.1	3	19	25950	4500	3	1090	20	19	890	17	30	19	45	3	4	29	8.5	260	1	1	5	114	595	
10163	.1	8120	1278	7	69	2.0	1	12930	.1	11	30	143530	4210	1	1650	32	73	990	1	10	8	68	5	1	29	7.6	256	1	1	2	52	1600	
10164	.1	8540	365	1	114	2.0	1	1760	7.5	7	56	32050	4450	5	1100	88	42	2110	93	290	27	93	4	1	31	56.6	815	1	1	3	31	675	
10165	.1	10900	454	1	138	2.4	1	1880	.5	8	54	40220	5550	3	1340	87	28	1020	53	280	14	93	4	1	27	33.1	378	1	1	3	27	550	
10166	.1	11450	297	1	145	2.0	1	2230	1.4	7	47	29460	5840	4	1460	79	28	1350	65	380	19	87	5	1	37	54.3	495	1	1	4	56	575	
10167	.2	12720	241	1	160	2.3	1	2810	2.1	8	62	26690	6310	4	1610	103	42	1830	96	550	27	95	7	1	40	65.4	528	1	1	3	39	560	
10168	.3	10640	802	1	145	2.4	1	2350	5.5	10	86	35350	5430	4	1380	116	44	2030	108	420	35	133	5	1	33	64.7	856	1	1	4	55	400	
10169	.1	4340	523	1	157	1.1	1	710	1.6	7</																							

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ7+8  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
10178	.5	9480	648	1	157	1.8	1	1480	.1	5	25	32060	4870	1	1200	43	30	1420	18	80	26	69	6	4	24	16.3	339	1	1	3	75	1620	
10179	1.8	7230	492	1	271	2.1	1	2390	6.7	8	68	30090	3590	1	840	90	28	1110	65	370	21	124	5	1	23	47.6	721	1	1	2	36	3750	
10180	3.9	9630	413	1	292	2.4	1	4860	2.6	6	51	26350	4920	3	1530	90	20	1300	36	330	19	248	14	4	37	31.2	487	1	1	3	63	1200	
10181	.2	8230	104	1	298	1.9	1	3700	.1	2	10	15180	3980	3	1750	37	12	1220	10	70	29	54	9	10	44	1.9	299	1	1	4	88	1185	
10182	.3	2510	118	5	73	.6	1	4790	.1	2	6	14570	1130	1	930	41	11	570	1	70	28	35	11	3	22	.7	178	1	1	5	126	23	
10183	.7	2490	208	4	65	1.0	1	2480	.1	2	5	12720	1440	1	620	23	9	190	2	20	14	29	5	1	14	.5	109	1	1	5	111	125	
10184	1.3	2500	515	4	55	1.3	2	6080	.1	2	6	25720	1490	1	1120	35	21	30	1	10	22	37	10	1	13	.5	88	1	1	3	74	153	
10185	2.0	2080	485	3	50	1.0	1	11880	.1	2	6	17580	1340	1	1040	135	11	30	1	10	16	36	17	1	12	.6	103	1	1	2	63	350	
10186	2.2	2760	648	3	71	1.3	1	11660	.1	2	6	19370	1680	1	1350	87	15	40	1	10	20	44	20	1	14	.9	103	1	1	3	60	501	
10187	1.6	2760	148	3	56	1.6	1	8940	.1	2	7	17140	1740	1	1250	59	10	30	1	10	22	33	15	1	13	.6	131	1	1	3	76	60	
10188	1.3	900	93	1	18	.5	2	3090	.1	1	2	3580	570	1	750	21	3	50	1	10	8	11	6	1	5	.8	35	5	1	1	24	152	
10189	.5	1850	37	1	39	.6	1	6400	.1	1	5	5920	670	1	2720	71	4	1100	1	10	22	8	21	1	19	1.0	85	1	1	5	123	1	
10190	.5	2890	37	1	44	1.0	1	3450	.1	1	5	6290	1260	1	2320	54	5	1190	1	10	22	8	10	2	24	.9	123	2	1	4	90	2	
10191	.5	2180	30	1	26	.6	1	5070	.1	1	5	6070	810	2	2780	72	4	1220	1	10	25	7	15	1	18	.9	98	3	1	5	123	2	
10192	.6	1980	26	1	96	.8	2	7610	.1	1	7	7330	1000	1	4340	76	5	1060	2	10	23	9	28	2	16	1.3	117	2	1	5	113	1	
10193	.5	5280	30	2	45	1.4	2	4270	.1	1	5	7780	1560	5	5430	65	3	140	1	10	26	9	11	4	17	1.1	93	3	1	5	117	3	
10194	.6	3950	35	1	75	1.7	2	5540	.1	1	21	6780	1600	3	4480	72	6	80	1	20	24	9	15	3	14	1.3	102	3	1	4	85	1	
10195	.6	3350	64	1	61	1.7	1	8950	.1	1	6	10770	1610	2	5410	103	4	60	1	20	20	13	41	3	12	1.3	97	2	1	3	65	1	
10196	.5	7260	36	3	63	2.4	1	3270	.1	1	5	9100	2620	7	6210	80	42	90	1	30	31	12	14	5	19	1.1	131	4	1	2	42	2	
10197	.5	6600	26	2	45	1.7	2	6970	.1	1	5	10220	1990	7	9210	98	3	180	1	10	22	5	23	5	19	1.5	105	4	1	4	80	1	
10198	.5	6590	24	2	50	1.6	2	3260	.1	1	5	9370	1890	7	9260	72	5	210	1	30	24	6	9	4	19	1.5	112	4	1	4	73	1	
10199	.5	2500	18	1	45	1.0	1	6770	.1	1	6	7410	1320	1	350	208	2	390	1	10	18	2	7	2	19	.7	100	1	1	4	107	2	
10200	.5	2120	23	1	38	1.0	1	3180	.1	1	5	5940	1160	1	240	121	6	470	1	10	14	2	4	2	16	.7	67	2	1	6	134	1	
10201	.4	2210	23	1	33	1.0	1	5750	.1	1	5	7500	1090	1	540	172	2	530	1	10	16	2	7	3	19	.7	84	2	1	5	130	2	
10202	.3	2170	14	1	34	.9	2	1660	.1	1	5	7400	790	1	740	91	6	510	1	20	15	2	3	2	19	.8	85	1	1	5	129	3	
10203	.5	2340	17	1	46	1.7	2	3430	.1	1	6	8710	1570	1	990	98	1	250	1	10	21	4	4	2	17	.6	112	1	1	4	105	2	
10204	.6	3110	103	2	61	1.7	2	15160	.1	1	5	13100	2100	1	3440	577	4	140	1	10	19	7	19	4	15	1.2	141	1	1	4	85	2	
10205	.6	2450	25	3	34	.9	1	15510	.1	1	5	11390	1300	1	5120	402	2	380	1	10	13	5	30	3	18	1.8	121	2	1	6	149	1	
10206	.6	2710	43	1	36	.9	2	8910	.1	1	6	8860	1340	1	2410	224	7	430	2	10	20	6	13	2	16	1.1	88	2	1	6	136	2	
10207	.6	3260	80	1	51	1.6	2	8770	.1	1	5	9830	1890	1	3540	252	3	230	1	10	22	6	26	3	19	1.0	120	2	1	4	104	1	
10208	.5	3710	25	2	64	1.4	2	7370	.1	1	7	10990	1980	1	4160	236	6	270	1	10	28	10	19	3	20	1.2	120	2	1	4	94	1	
10209	.2	2060	17	7	32	1.0	1	4730	.1	1	4	10180	1160	1	3790	149	8	300	1	20	21	5	9	1	10	.9	100	2	1	4	92	2	
10210	.4	2220	13	4	61	1.6	1	7720	.1	1	5	10130	1350	2	5210	183	5	190	1	20	17	5	25	1	11	.9	103	2	1	3	80	1	
10211	.4	3380	18	3	52	2.3	2	2950	.1	1	5	7510	2090	2	3370	136	6	160	1	10	22	7	8	2	12	.7	144	3	1	2	43	1	
10212	.5	1540	45	1	22	.7	1	11170	.1	1	6	8430	750	1	2960	186	5	470	1	30	18	13	20	1	16	1.1	84	3	1	6	138	1	
10213	.5	4800	19	2	63	3.3	1	3810	.1	1	5	5680	2760	2	2470	141	12	100	1	20	23	13	8	3	14	.7	149	3	1	1	28	2	
10214	.5	3450	508	1	49	1.8	1	7960	.1	1	5	10560	1990	1	3070	187	7	70	1	20	17	28	24	1	12	.9	87	2	1	4	94	209	
10215	.4	7600	334	1	116	2.2	1	3950	.1	2	25	23510	4050	3	1880	98	19	780	5	20	23	31	9	3	27	1.3	105	1	1	5	137	700	
10216	.5	6810	407	1	84	1.9	2	4920	.1	1	6	12160	3610	4	2300	119	6	2070	6	10	23	32	10	3	25	1.5	112	1	1	4	107	690	
10217	.1	7310	235	1	84	2.5	1	4180	.1	3	7	27760	3890	2	2000	83	26	800	4	10	22	34	10	3	21	2.3	129	1	1	5	127	1340	
10218	.3	6940	386	1	81	2.4	1	2600	.1	3	8	21500	3750	3	1380	47	17	80	7	10	19	37	8	3	20	2.5	160	1	1	4	105	1220	
10219	.2	11170	508	1	135	3.4	1	2770	.1	11	65	40240	5680	2	1280	106	42	2210	80	510	27	128	7	1	37	50.6	421	1	1	3	69	2550	
10220	.9	7220	329	1	98	2.0	1	4650	.1	2	11	17430	3950	2	2290	35	20	70	14	30	21	34	21	4	22	4.9	257	3	1	3	65	2670	
10221	2.9	6410	101	1	80	1.5	1	7520	.1	2	12	11620	3340	5	3970	78	14	750	17	30	22	33	39	3	24	7.2	244	2	1	5	113	2250	
10222	.4	9130	145	1	112	1.9	1	3690	.1	2	9	15220	4800	6	2950	39	23	640	17	20	30	26	14	5	32	3.9	235	2	1	4	77	1700	
10223	.5	4840	93	1	62	1.4	1	6860	.1	2	9	11900	2670	3	3130	44	15	1230	21	20	29	23	31	3	14	2.9	315	2	1	4	94	1570	
10224	.5	8260	92	1	99	1.9	2	2730	.1	2	8	12100	4240	6	2250	54	11	80	13	10	21	20	8	5	25	2.8	314	3	1	4	86	2370	
10225	.6	10420	92	1	129	2.2	2	2010	.1	2	14	13080	5630	6	2040	24	16	80	17	20	26	27	8	7	38	2.7	405	3	1	4	80	2180	
10226	.6	3790	74	1	65	.7	2	6340	.1	2	5	10950	1780	2	2730	50	5	600	3	30	19	13	18	5</									





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 FAX (604) 847-3005

Assay Certificate

1S-0124-RA3

Company: **COPELAND REBAGLIATI & ASSOC.**  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-18-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify* the following Assay of 23 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton
10161	.13	.004
10162	.04	.001
10163	.28	.008
10164	.01	.001
10165	.02	.001
10166	.01	.001
10167	.01	.001
10168	.11	.003
10169	.27	.008
10170	.26	.008
10171	.11	.003
10172	.37	.011
10173	1.27	.037
10174	.76	.022
10175	.20	.006
10176	.14	.004
10177	.08	.002
10178	.25	.007
10179	.59	.017
10180	.66	.019
10181	.05	.001

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Geochemical Analysis Certificate

1S-0124-RG3

Company: COPELAND REBAGLIATI & ASSOC.  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-18-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify* the following Geochemical Analysis of 23 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.

Sample Number	AG PPM
10161	0.7
10162	2.0
10163	1.8
10164	3.0
10165	1.1
10166	2.2
10167	1.7
10168	1.5
10169	2.9
10170	2.5
10171	1.0
10172	2.1
10173	4.9
10174	2.5
10175	1.2
10176	2.0
10177	0.9
10178	1.3
10179	2.7
10180	4.8
10181	0.7

Certified by 

MIN-EN LABORATORIES

COPELAND REBAGLIATI & ASSOCIATES LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD.		91-52
SIB PROPERTY		DIAMOND DRILL LOG
MTS MAP # : 1048/9	CLAIM # : SIB 12, 33	
LOCAL GRID : 8882.88 N / 9702.87 E	GLOBAL GRID : 13270.21 N / 17756.95 E	
LENGTH : 83.30 m	INCLINATION : -45.0 degrees	ELEVATION : 991.07 metres
OVERBURDEN : 3.00 m	CASING : 3.00 metres	AZIMUTH : 113.5 degrees
LOGGED BY : Paul Lawnikanis	DRILLED BY : J.T. Thomas	ASSAYING BY : Min-En Labs
DATE LOGGED : 1991/07/06	DATE DRILLED : 1991/07/05	CORE LOCATION: 86+30 N, 96+70 E
Y/M/D	Y/M/D	SAMPLE NO. SERIES : 10199-10241

SUMMARY LOG 91-52

From(m)	To(m)	Field Name (Legend)
0.00	3.00	CASING
3.00	28.00	TUFFACEOUS RHYOLITE (3.9) +/- RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
28.00	29.00	SULPHIDIC MUDSTONE AND CHERT (3.5)
29.00	32.50	TUFFACEOUS RHYOLITE (3.9) +/- RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
32.50	43.80	SULPHIDIC MUDSTONE AND CHERT (3.5)
43.80	83.30	TUFFACEOUS RHYOLITE -SERICITE -PYRITE (3.9a, Py)
		51.0 - 51.5 BLACK CHERT - CHERT BRECCIA (3.3)
83.30		END OF HOLE.

ANALYTICAL HIGHLIGHTS 91-52

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
No significant results.						

From(m)	To(m)	-----Description-----
---------	-------	-----------------------

0.00	3.00	CASING
3.00	28.00	TUFFACEOUS RHYOLITE (3.9) +/- RHYOLITE FLOW (AUTOBRECCIATED) (3.8)

## Lithology &lt;3.00&gt;-&lt;11.00&gt;

- Dark grey with rarer medium grey patches.
- Black angular clasts (40%) is a medium grey, very fine grained matrix.
- Poorly sorted texture with possible bedding planes at 30 - 40 degrees to c/a.

## Structure

- Massive to weakly foliated, uniform.
- Fracturing related to surface jointing common.
- Hematitic staining is ubiquitous in fracture zones.

## Alteration

- Hard rock that may have been "albitized" after being weakly sericitized.
- This later alteration has overprinted other more common alterations noted at depths below 60 - 70m in DDH 91-49.

## Mineralization

- Isolated crystals and blebs of primary pyrite in trace (< 0.25%) amounts.

28.00	29.00	SULPHIDIC MUDSTONE AND CHERT (3.5)
29.00	32.50	TUFFACEOUS RHYOLITE (3.9) +/- RHYOLITE FLOW (AUTOBRECCIATED) (3.8)

## Lithology &lt;11.0&gt;-&lt;32.5&gt;

- Greenish grey with short sections of dark grey rock, resulting from the original alteration of fresh rocks.
- Lapilli size clasts (25 - 40% of the framework) in aphanitic yellow-green matrix.
- poorly sorted but some sections have "fining up cycles" toward the top of the core.

## Structure

- Upper 5 - 8 metres are weakly foliated, then from about 20 - 34 m, the zone is moderately foliated.
- Fault Zone from 32.6 - 34.0 metres, with only 50cm of core recovery. Last 2.0 metres of core or gouge has been fully washed out.
- Sheared (moderately foliated) with core axis angles of 25 - 50 degrees, angles change from 25 degrees near lower contact to 50 degrees at 25.8m depth.
- Foliation and alteration changes may be related to faulting at "Lulu Mudstone" contact.
- Weak foliation from 21.3 - 25.8 metres.

## Alteration

- Stage one: Sericitization (moderate) and chloritization (very weak) of rock
- Stage two: Albitization? (moderate) as an overprint, resulting in hard rock.
- Alteration (stage one) increases toward the lower fault contact; from 26.0 - 31.0m strong sericitization.

From(m) To(m) -----Description-----

Mineralization

-Only traces of pyrite throughout interval except for 0.25 - 0.50% pyrite from 31.8 - 34.0 metres.

Sub-intervals

-From 28.1 - 29.3; dark grey to black interval of volcanic breccia, strongly altered, usefull as a marker horizon.

32.50 43.80 SULPHIDIC MUDSTONE AND CHERT (3.5)

Lithology <34.0>-<49.6>

-Very dark grey to black, black only from 42.6 - 43.8m ("Lulu Mudstone" proper).  
 -Admixture of volcanic and detrital (argillaceous) debris throughout.  
 -Very close to 50% detrital components, matrix is detrital rich.  
 -Actual composition difficult to define due to moderate shearing and alteration imprint.

Structure

-Fault Zones with less than 5cm of gouge at 37.6m, 38.1m, 42.7m, and 47.2m. These slips may be related to the larger fault zone logged above from 32.6 - 34.0m.  
 -Shearing: The entire unit is sheared, except for the "Lulu Unit" from 42.6 - 43.8m. Foliations are moderately developed, with core axis angles from 0 - 15 degrees; the average is close to 10 degrees. The shearing is not uniform, and some zones appear to be more "mylonitized" than other zones. For example, the lower 40m (45.6 - 49.6) is schistose looking due to the moderate to strong shearing.  
 -Both rock contacts, upper at 34.0m, lower at 49.6m, are sharp, and believed to be structurally controlled.

Alteration

-Original sericite and chlorite alteration probably weak  
 -Imprinted albitic? alteration is moderate, thus masking the previous alterations.  
 -Rock is harder than a (5 to 5.5 hardness) steel tip.

Mineralization

-Both syngenetic and secondary or hydrothermal? pyrite ranges from 0.25 -1% in the volcanoclastic intervals. Some sections have up to 5% pyrite, but are not more than 5cm width.  
 -The "Lulu bed" from 42.6 - 43.8 metres has 0.5% pyrite on average, with a 10cm interval of 4% secondary pyrite.

From(m)	To(m)	Description
43.80	83.30	TUFFACEOUS RHYOLITE -SERICITE -PYRITE (3.9a, Py) 51.0 - 51.5 BLACK CHERT - CHERT BRECCIA (3.3)

Lithology <49.6>-<83.3>

- Greyish yellow green grading into greenish grey below 75.0m.
- Lapilli type tuff with clasts of a 1.5 - 2.0cm mean size range from 49.6 - 68.0m, below 68.0m the percentage of clasts/fragments drop off to 25%, and there are some more ash rich sections.
- General sericite alteration probably masks the true original textures, and actual beddings or deposition sequences are distorted by the shearing.

Structure

- Most structural adjustment occur from 55.0 - 73.5m, with shearing and a large fault zone accounting for the deformation.
- Fault slips at 53.3m (2cm of gouge); 55.7m (3cm of clay gouge); 56.0cm (3cm of missing core); 68.6m (7cm of breccia gouge); and 70.1 - 70.3m (25cm of breccia gouge).
- Major fault zone from 58.0 - 63.0 metres within this zone there is a 130cm gouge section from 58.2 - 59.5m and 2 metres of lost core from 61.0 - 63.0m. The upper and lower zones associated with this large fault record moderate foliations logged as shear zones.
- Shear zones at 50.5 - 58.0 (transposed foliations, moderate sericite alteration) this is the upper Fault Contact; at 63.0 - 65.7m (0 - 10 degree foliations, moderate, broken core common, moderate sericite alteration).
- A weaker shear zone from 68.0 - 71.7m contains 3 fault slips and has 15 - 25 degrees core axis angles, alteration is weak to moderate.

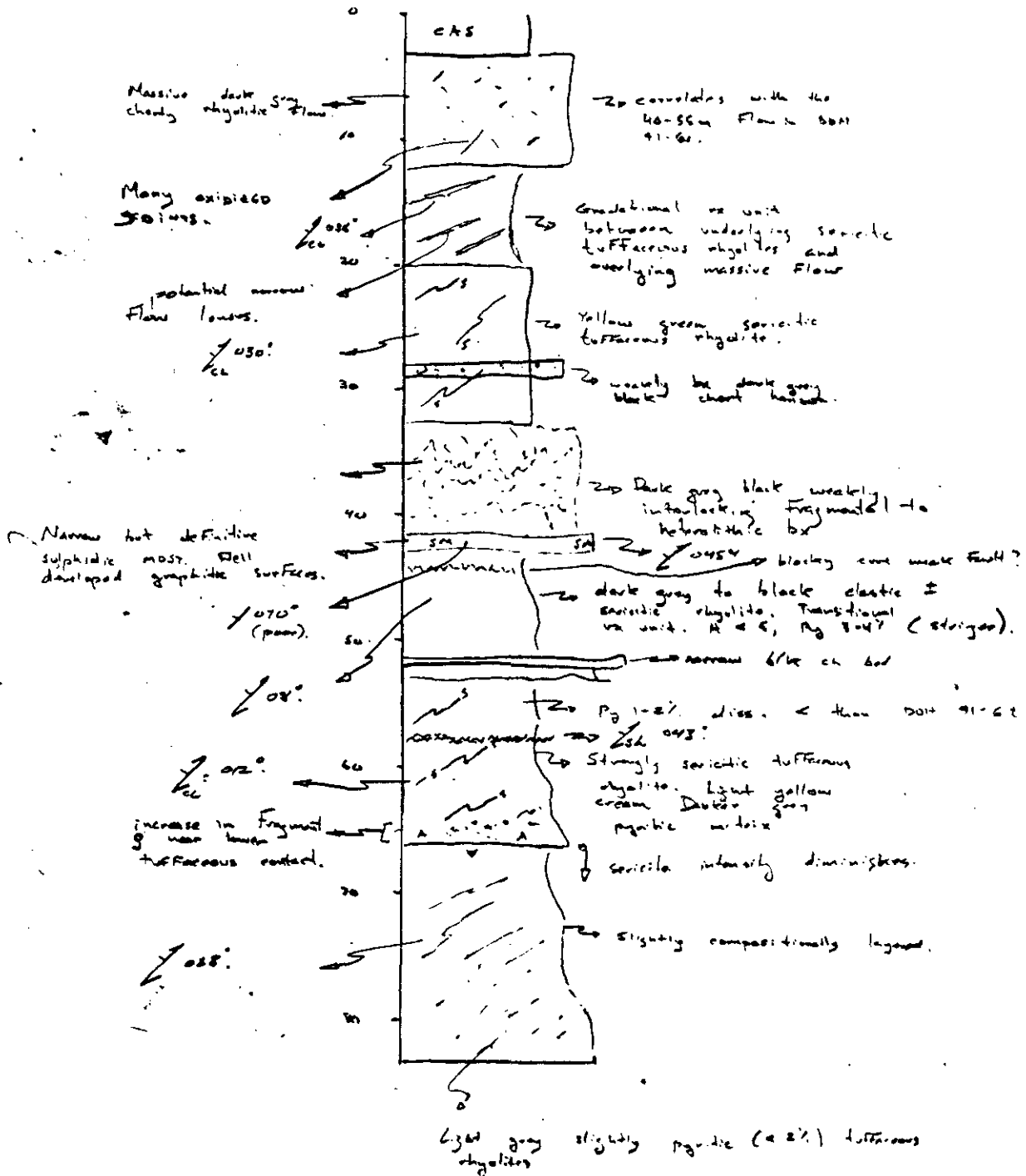
Alteration

- Moderate sericite and weak chlorite alteration in the shear zones.
- Weak to locally (isolated) moderate sericite alteration from 73.5 - 83.3 metres.
- Of important note is that the albite? alteration, as matched by rock hardness persists to the end of the hole. Weak albite? alteration from 53.0 = 83.3 metres.

Mineralization

- In the shear zones there is 0.25 - 0.50% pyrite.
- In weakly or unfoliated rock there is only trace (< 0.25%) pyrite.
- From 65.7 - 68.0 metres there is a section that has up to 1% pyrite, the pyrite is mainly detrital in nature, but subhedral crystals are also present in the matrix (1 metre samples will be taken through this zone).
- Take note that certain anomalous zink and copper values that appear to be sporadic are due to deposition of brass from a new type of drill bit onto core.

83.30 END OF HOLE.



HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91-52	10199	3.00	5.00	2.00	-	-	2	-	-	0.5	18	2	45	-	6	18	100	7410	6770
91-52	10200	5.00	7.00	2.00	-	-	1	-	-	0.5	23	2	38	-	5	14	67	5940	3180
91-52	10201	7.00	9.00	2.00	-	-	2	-	-	0.4	23	2	33	-	5	16	84	7500	5750
91-52	10202	9.00	11.00	2.00	-	-	3	-	-	0.3	14	2	34	-	5	15	85	7400	1660
91-52	10203	11.00	13.00	2.00	-	-	2	-	-	0.5	17	4	46	-	6	21	112	8710	3430
91-52	10204	13.00	15.00	2.00	-	-	2	-	-	0.6	103	7	61	-	5	19	141	13100	15160
91-52	10205	15.00	17.00	2.00	-	-	1	-	-	0.6	25	5	34	-	5	13	121	11390	15510
91-52	10206	17.00	19.00	2.00	-	-	2	-	-	0.6	43	6	36	-	6	20	88	8860	8910
91-52	10207	19.00	21.00	2.00	-	-	1	-	-	0.6	80	6	51	-	5	22	120	9830	8770
91-52	10208	21.00	23.00	2.00	-	-	1	-	-	0.5	25	10	64	-	7	28	120	10990	7370
91-52	10209	23.00	25.00	2.00	-	-	2	-	-	0.2	17	5	32	-	4	21	100	10180	4730
91-52	10210	25.00	27.00	2.00	-	-	1	-	-	0.4	13	5	61	-	5	17	103	10130	7720
91-52	10211	27.00	28.00	1.00	-	-	1	-	-	0.4	18	7	52	-	5	22	144	7510	2950
91-52	10212	28.00	29.30	1.30	-	-	1	-	-	0.5	45	13	22	-	6	18	84	8430	11170
91-52	10213	29.30	31.00	1.70	-	-	2	-	-	0.5	19	13	63	-	5	23	149	5680	3810
91-52	10214	31.00	34.00	3.00	-	-	209	-	-	0.5	508	28	49	-	5	17	87	10560	7960
91-52	10215	34.00	36.00	2.00	0.07	0.002	-	-	-	1.1	334	31	116	700	25	23	105	23510	3950
91-52	10216	36.00	38.00	2.00	0.08	0.002	-	-	-	0.8	407	32	84	690	6	23	112	12160	4920
91-52	10217	38.00	40.00	2.00	0.03	0.001	-	-	-	2.4	235	34	84	1340	7	22	129	27760	4180
91-52	10218	40.00	42.60	2.60	0.06	0.002	-	-	-	1.3	386	37	81	1220	8	19	160	21500	2600
91-52	10219	42.60	44.00	1.40	0.13	0.004	-	-	-	2.7	508	128	135	2550	65	27	421	40240	2770
91-52	10220	44.00	45.00	1.00	0.08	0.002	-	-	-	1.8	329	34	98	2670	11	21	257	17430	4650
91-52	10221	45.00	46.00	1.00	0.07	0.002	-	-	-	3.6	101	33	80	2250	12	22	244	11620	7520
91-52	10222	46.00	47.00	1.00	0.02	0.001	-	-	-	1.4	145	26	112	1700	9	30	235	15220	3690
91-52	10223	47.00	48.00	1.00	0.02	0.001	-	-	-	1.3	93	23	62	1570	9	29	315	11900	6860
91-52	10224	48.00	49.00	1.00	0.01	0.001	-	-	-	1.1	92	20	99	2370	8	21	314	12100	2730
91-52	10225	49.00	50.00	1.00	0.01	0.001	-	-	-	2.1	92	27	129	2180	14	26	405	13080	2010
91-52	10226	50.00	52.00	2.00	0.02	0.001	-	-	-	1.2	74	13	65	2600	5	19	159	10950	6340
91-52	10227	52.00	54.00	2.00	-	-	3	-	-	0.4	56	11	32	-	5	25	146	9930	6290
91-52	10228	54.00	56.00	2.00	-	-	1	-	-	0.4	61	11	44	-	7	23	114	13950	5510
91-52	10229	56.00	58.00	2.00	-	-	1	-	-	0.4	60	11	58	-	11	29	129	17880	4840
91-52	10230	58.00	60.00	2.00	-	-	2	-	-	0.6	61	12	32	-	6	22	143	10790	13340
91-52	10231	60.00	63.00	3.00	-	-	1	-	-	0.1	164	21	108	-	7	25	194	29100	8080
91-52	10232	63.00	65.00	2.00	-	-	1	-	-	0.3	93	11	59	-	5	20	150	16030	6870
91-52	10233	65.00	67.00	2.00	-	-	2	-	-	0.4	123	23	67	-	6	33	282	17820	5630
91-52	10234	67.00	69.00	2.00	-	-	1	-	-	0.5	90	13	51	-	6	24	213	16880	7890
91-52	10235	69.00	71.00	2.00	-	-	1	-	-	0.4	72	12	45	-	6	25	200	14360	5690
91-52	10236	71.00	73.00	2.00	-	-	20	-	-	0.1	231	27	37	-	8	42	248	44450	8920
91-52	10237	73.00	75.00	2.00	-	-	2	-	-	0.5	57	9	60	-	5	19	104	7440	7300
91-52	10238	75.00	77.00	2.00	-	-	1	-	-	0.4	45	9	66	-	6	27	157	10130	2670
91-52	10239	77.00	79.00	2.00	-	-	1	-	-	0.7	40	7	60	-	6	26	99	14290	6220
91-52	10240	79.00	81.00	2.00	-	-	1	-	-	0.6	25	5	53	-	5	22	115	8440	3450
91-52	10241	81.00	83.30	2.30	-	-	2	-	-	0.6	22	4	33	-	5	28	103	11400	6810



COMP: COPELAND, REBAGLIATI & ASSOC.

PROJ: 9101

ATTN: M.REBAGLIATI

MIN-EN LABS — ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ7+8

DATE: 91/10/17

\* ROCK \* (ACT:F31)

Table with 30 columns (AG, AL, AS, B, BA, BE, BI, CA, CD, CO, CU, FE, K, LI, MG, MN, MO, NA, NI, P, PB, SB, SR, TH, TI, V, ZN, GA, SN, W, CR, AU-FIRE, HG) and 50 rows of sample data. Includes handwritten annotations '91-52' and '91-52' on the left side.

COMP: COPELAND, REBAGLIATI & ASSOC.  
PROJ: 9101  
ATTN: M. REBAGLIATI

MIN-EN LABS — ICP REPORT  
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
(604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ9+10  
DATE: 91/10/17  
\* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
10234	.5	4070	90	1	51	1.9	1	7890	.1	2	6	16880	2310	2	2860	35	11	50	1	30	24	13	25	2	15	.9	213	2	1	3	58	1	
10235	.4	3200	72	1	45	1.7	1	5690	.1	1	6	14360	1930	1	1830	37	12	80	1	30	25	12	14	2	11	.4	200	2	1	2	47	1	
10236	.1	2650	231	2	37	2.4	1	8920	.1	6	8	44450	1600	1	3380	62	26	70	1	20	42	27	25	1	15	.9	248	1	1	2	54	20	
10237	.5	3610	57	1	60	1.7	1	7300	.1	1	5	7440	1960	2	2950	50	7	100	1	20	19	9	26	1	12	.7	104	3	1	3	57	2	
10238	.4	7710	45	1	66	2.6	1	2670	.1	1	6	10130	2430	9	6860	57	10	70	1	20	27	9	8	3	16	.9	157	5	1	3	69	1	
10239	.7	7760	40	1	60	2.2	2	6220	.1	2	6	14290	2140	11	11650	110	9	90	1	20	26	7	14	3	16	1.9	99	5	1	3	72	1	
10240	.6	6970	25	1	53	2.1	1	3450	.1	1	5	8440	2230	7	7410	52	3	160	1	10	22	5	9	4	21	1.1	115	5	1	3	57	1	
10241	.6	10950	22	1	33	1.7	2	6810	.1	2	5	11400	1610	15	12740	91	4	260	1	10	28	4	12	3	20	1.8	103	6	1	3	78	2	
10242	.5	2560	23	1	43	1.5	2	4270	.1	1	5	7270	1720	1	510	147	2	410	1	20	20	3	5	2	25	.7	97	3	1	4	98	1	
10243	.4	1940	10	1	26	1.0	1	4100	.1	1	4	6850	980	1	420	175	6	610	2	10	18	2	7	2	32	.6	92	2	1	5	123	1	
10244	.4	2600	17	1	30	1.1	1	3530	.1	1	6	8610	1150	2	720	153	2	480	1	10	20	3	5	1	28	.5	85	3	1	5	120	4	
10245	.5	2470	21	1	49	1.5	1	1220	.1	1	4	6510	1710	1	510	114	5	410	1	10	18	6	3	2	24	.6	101	2	1	4	107	3	
10246	.5	2140	64	1	33	1.2	1	7910	.1	1	6	7630	1400	1	590	165	1	340	1	10	21	8	10	1	17	.7	89	2	1	4	111	5	
10247	.5	3000	28	1	77	2.5	1	7740	.1	1	3	6270	2430	1	1500	163	4	50	1	20	15	6	9	1	13	.9	72	2	1	2	51	1	
10248	.6	2060	35	1	101	1.2	1	4010	.1	2	8	9610	1890	1	210	109	49	100	1	20	20	8	7	1	11	.7	159	1	1	4	107	1	
10249	.8	1940	36	1	72	1.4	1	11540	.1	2	8	20560	2050	1	280	361	66	130	1	20	30	5	22	1	14	1.2	140	1	1	3	72	1	
10250	.7	1770	21	1	61	1.3	1	7980	.1	1	6	8540	1770	1	240	196	52	100	1	20	22	2	15	1	12	.6	97	2	1	3	76	1	
10251	.7	2700	25	8	70	2.4	1	19030	.1	2	9	23340	2460	1	590	618	24	90	1	30	36	5	32	1	27	1.1	109	1	1	3	74	2	
10252	.6	3600	37	7	176	2.6	1	7950	.1	2	7	18360	2670	1	2070	330	24	90	1	30	42	5	19	2	25	1.0	212	1	1	3	69	1	
10253	.8	4330	22	6	100	2.6	1	8290	.1	2	9	15110	2960	1	1730	433	13	110	1	20	52	5	15	3	36	1.0	177	2	1	4	78	4	
10254	1.0	5890	24	7	99	2.9	3	24230	.1	2	7	16300	3550	2	3560	1016	28	80	1	40	55	5	48	5	52	1.9	201	3	1	3	63	2	
10255	.6	4750	18	5	83	3.0	1	4090	.1	2	8	17220	2910	2	3290	228	18	70	1	10	39	4	9	3	31	.7	222	2	1	3	50	1	
10256	.6	4650	26	4	87	2.1	2	5400	.1	2	5	12900	2260	3	1940	165	20	190	1	20	24	3	9	2	33	.7	121	2	1	3	73	1	
10257	.6	3680	49	3	41	1.2	2	7310	.1	1	5	8950	1540	2	2300	181	2	260	1	10	21	3	14	2	20	1.0	91	3	1	4	101	1	
10258	.5	2380	15	2	40	1.3	2	11650	.1	1	3	8340	1450	1	3140	317	6	250	1	20	17	2	28	1	14	1.3	88	2	1	5	121	5	
10259	.5	2870	27	3	57	2.0	1	6500	.1	2	5	11880	1970	1	2400	207	2	140	1	20	22	5	15	2	18	.9	144	2	1	4	79	1	
10260	.7	3440	18	3	58	1.8	1	9690	.1	1	8	11800	2190	1	1880	255	5	230	1	20	18	5	22	3	28	1.3	137	2	1	4	86	2	
10261	.5	3530	16	3	54	1.7	1	5870	.1	1	4	7970	2160	1	2050	154	2	250	1	20	20	3	13	4	39	.8	135	3	1	4	95	5	
10262	.7	4190	19	3	42	1.5	1	8360	.1	1	4	8140	1920	1	2270	238	5	410	1	10	21	2	15	4	49	1.3	92	4	1	5	113	1	
10263	.6	4060	18	2	46	1.4	2	4300	.1	1	5	7280	2070	1	1910	129	2	370	1	10	23	3	7	3	51	.9	93	3	1	5	109	2	
10264	.5	4280	15	2	48	1.8	2	3840	.1	1	4	7910	2120	2	2090	121	5	280	1	40	17	2	5	2	34	.8	98	3	1	4	80	1	
10265	.5	3010	17	1	40	1.5	1	5420	.1	1	4	6890	1800	1	1880	107	5	290	1	90	22	4	15	2	31	.9	93	2	1	5	104	1	
10266	.4	1130	72	1	12	.3	1	5170	.1	2	4	9910	170	1	540	55	11	850	1	70	10	5	9	1	22	.9	52	1	1	7	168	4	
10267	.3	1500	108	1	18	.5	1	4100	.1	2	5	19330	630	1	170	32	12	750	1	60	17	14	8	1	28	.7	45	1	1	7	172	1	
10268	.5	1710	73	1	25	.6	1	4180	.1	2	6	15110	830	1	190	40	16	730	1	30	17	7	8	1	31	.8	48	2	1	7	188	1	
10269	.4	1880	39	1	38	.6	1	4620	.1	2	5	9550	1220	1	200	37	6	530	1	40	21	5	7	2	30	.5	47	1	1	7	174	2	
10270	.3	2130	71	1	31	1.2	1	2550	.1	3	7	20360	1280	1	430	37	14	390	1	50	32	9	4	2	31	.3	81	1	1	5	128	2	
10271	.4	2810	44	1	36	1.9	1	7880	.1	2	6	12910	1430	1	1260	111	7	320	1	50	22	6	13	1	16	.7	102	2	1	4	103	2	
10272	.6	7770	96	1	101	2.1	1	8130	.1	3	14	15360	3890	3	1840	89	16	1580	19	90	26	19	8	3	44	8.2	184	3	1	5	130	1600	
10273	.5	5910	131	1	89	1.5	1	2590	.1	3	17	16230	3210	1	440	50	20	1340	25	90	23	21	5	2	36	9.7	198	1	1	6	142	2640	
10274	.8	7170	170	1	109	2.1	1	2840	1.3	5	40	21120	4020	1	610	76	67	1250	109	350	29	39	5	4	49	24.6	410	1	1	4	86	9875	
10275	.5	6260	150	1	105	1.8	1	2170	3.6	7	60	22840	3640	1	560	99	48	1390	89	480	31	38	4	2	44	30.4	560	1	1	3	78	1090	
10276	.3	6080	233	1	94	1.9	1	3590	.1	7	42	30550	3660	1	670	88	126	1730	138	230	29	56	6	3	27	14.5	290	1	1	3	64	1320	
10277	.3	5310	195	1	106	1.7	1	7790	.1	4	26	24130	3150	1	2330	112	37	2130	42	140	28	24	25	4	32	10.5	338	1	1	4	89	1320	
10278	.1	2120	142	2	45	1.2	1	7620	.1	2	5	24580	1350	1	1640	95	21	150	1	40	17	11	15	1	10	.9	100	1	1	4	97	1	
10279	.3	1990	94	1	51	1.1	1	4010	1.0	3	16	16690	1400	1	630	51	19	630	15	130	15	16	6	1	10	3.0	228	1	1	3	73	1	
10280	.4	2550	89	1	213	1.0	1	5590	.1	3	14	14750	1290	1	1780	78	20	660	14	110	16	13	11	1	10	4.7	164	1	1	4	99	2	
10281	.5	3040	97	1	79	1.0	2	11480	.1	2	9	13320	1210	1	4980	143	12	420	9	330	16	10	37	1	13	4.7	94	2	1	6	137	1	
10282	.7	4920	121	2	55	1.4	1	7090	3.4	6	39	23780	1440	4	4700	212	14	510	30	280	13	28	14	1	23	22.7	365	2	1	4	82	1	
10283	4.1	3700	100	1																													



**MIN-EN ENVIRONMENTAL LABORATORIES**  
 (DIVISION OF ASSAYERS CORP.)

91-52

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
 CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

705 WEST 15TH STREET  
 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
 TELEPHONE (604) 980-5814 OR (604) 988-4524  
 FAX (604) 980-9621

**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Assay Certificate

1S-0124-RA3

Company: **COPELAND REBAGLIATI & ASSOC.**  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-18-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify* the following Assay of 23 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton
10215	.07	.002
10216	.08	.002
10217	.03	.001
10218	.06	.002
10219	.13	.004
10220	.08	.002
10221	.07	.002
10222	.02	.001
10223	.02	.001
10224	.01	.001
10225	.01	.001
10226	.02	.001

Certified by   
 MIN-EN LABORATORIES



**MIN-EN LABORATORIES**  
 (DIVISION OF ASSAYERS CORP.)

91-52

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
 CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:  
 105 WEST 15TH STREET  
 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
 TELEPHONE (604) 980-5814 OR (604) 988-4524  
 FAX (604) 980-9621

**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Geochemical Analysis Certificate

1S-0124-RG3

Company: COPELAND REBAGLIATI & ASSOC.  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-18-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify* the following Geochemical Analysis of 23 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.

Sample Number	AG PPM
10215	1.1
10216	0.8
10217	2.4
10218	1.3
10219	2.7
10220	1.8
10221	3.6
10222	1.4
10223	1.3
10224	1.1
10225	2.1
10226	1.2

Certified by *Tom J. Smith*

MIN-EN LABORATORIES

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-53  
SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 1048/9 CLAIM # : SIB 12, 33, 35  
LOCAL GRID : 8860.82 N / 9671.93 E GLOBAL GRID : 13264.44 N / 17719.39 E  
LENGTH : 81.40 m INCLINATION : -46.5 degrees ELEVATION : 988.25 metres  
OVERBURDEN : 2.10 m CASING : 2.10 metres AZIMUTH : 116.0 degrees  
LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
DATE LOGGED : 1991/07/08 DATE DRILLED : 1991/07/06 CORE LOCATION: 86+30 N, 96+70 E  
Y/M/D Y/M/D SAMPLE NO. SERIES : 10242-10294

## SUMMARY LOG

91-53

From(m)	To(m)	Field Name (Legend)
0.00	2.10	CASING
2.10	12.00	RHYODACITIC FRAGMENTAL (3.0), TUFFACEOUS RHYOLITE (3.9)
12.00	28.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
28.00	37.70	CHERTY RHYOLITIC FLOW (3.7)
37.70	59.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
59.00	64.40	BLACK CHERT - CHERT BRECCIA (3.3)
64.40	66.00	TUFFACEOUS RHYOLITE -SERICITE -PYRITE (3.9a, Py)
66.00	81.40	SULPHIDIC MUDSTONE AND CHERT (3.5), TURBIDITIC MUDSTONE (3.6)
81.40		END OF HOLE.

## ANALYTICAL HIGHLIGHTS

91-53

From(m)	To(m)	Length(m)	Au g/t	Au Oz/ton	Ag g/t	Ag Oz/ton	% Pb	% Zn
77.00	78.00	1.00	0.01	0.001	62.5	1.82		

From(m)	To(m)	-----Description-----
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0.00	2.10	CASING
2.10	12.00	RHYODACITIC FRAGMENTAL (3.0), TUFFACEOUS RHYOLITE (3.9)

## Lithology &lt;2.1&gt;-&lt;14.3&gt;

- Strong to moderate alteration obscures the matrix/fragment ratios and colour indexes associated with more intermediate fragmental volcanics. See 91-49.
- Medium grey from 2.1 to 9.14m, greyish yellow to greenish yellow from 9.14 - 14.3m
- Most probably a lapilli (range) tuff of intermediate composition, but all textures are masked by alteration.

## Structure

- Isolated foliation or "bedding plane surface" at 12.0m; foliation/bedding? at 53 - 70 degrees to core axis.
- Fracturing due to jointing and mechanical weathering common, with numerous limonitic stain zones (surface fractures).

## Alteration

- Albitized?; moderate alteration, this overprints earlier weak sericite/chlorite alteration.
- Weak to moderate sericite alteration from 12.0 - 14.3 metres.

12.00	28.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
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## Lithology &lt;14.3&gt;-&lt;28.0&gt;

- Medium green-grey with dark green and light greyish green sections.
- Fragmented textures poorly developed due to alterations and the shear zones.
- Alternating colours related to alteration front and shearing of rock.

## Structure

- This interval has been sheared, weakly mylonitized, and foliations reflect this.
- Upper and lower contacts fairly sharp, and defined by colour/alteration and foliation change.
- From 14.3 - 14.8m: sheared contacts, angles from 30 - 55 degrees recorded, moderate alterations.
- From 14.8 - 18.0m: "mylonitized" zone, internally the matrix and framework (clasts and fragments) are "mixed together", chloritized moderately, weakly sericitized, and weakly albitized?
- From 18.0 - 19.5m: moderately sheared zone with augen-like clasts in a chlorite rich matrix, and 1% pyrite. Foliation terminates abruptly.
- From 19.5 - 22.4m: less altered, weakly sheared zone, textures more representative of the unit in undeformed, fresher zones.
- From 22.4 - 26.5: moderately foliated (sheared) and altered zone, with textures similar to those in the 18.0 - 19.5m zone. Average foliation is 40 degrees to c/a.
- From 26.5 - 28.0: weak foliation, angle to c/a is from 35 - 45 degrees; rock is very similar to the 19.5 - 22.4m zone.

From(m)	To(m)	Description
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## Alteration

-Chloritization of the matrix (moderate alteration) is the most obvious feature of this interval. There is a weak sericite alteration, and this is more pronounced on clasts and fragments.

-The albite? alteration phase appears to have postdated these earlier alterations, as is supported by the hardness of the rock.

## Mineralization

-From 14.2 - 18.0m: 0.25 - 0.50% pyrite very fine grained masses in the matrix.

-From 18.0 - 19.5m: 1% pyrite, very fine grained masses in the matrix, coating grains.

-From 19.5 - 22.4m: less than 0.25% pyrite (sporadic)

-From 22.4 - 28.0m: 0.5% pyrite (as above) some zones with 1 - 2% pyrite.

28.00	37.70	CHERTY RHYOLITIC FLOW (3.7)
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## Lithology

-See 2.1 - 14.3m interval; unit is medium apple green to greyish on some sections.

## Structure

-Thin, <15cm foliation zones present, but generally semi-massive.

## Alteration

-Moderately sericitized, very weakly chloritized. Chlorite concentrated as masses in foliated zones.

-Overprinted by the albite? alteration, but rock is softer than "units" or zones above and below this one.

## Mineralization

-Spotty concentrations of anhedral pyrite, notably in foliated zones (0.25 - 0.5%).

-But overall there is <0.25% pyrite.

-Note: This (unit/sub-unit) section of the drill hole is separated from the other zones by the degree of sericite alteration.

37.70	59.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
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## Lithology

-Uniform medium grey, rare patches of greyish green or yellow green rock.

-Fragments range from 30 - 50% of the rock; size ranges from 4mm to 35cm common, with a mean size of 1cm.

-Matrix is 50 - 70% of the rock, but is opaque to glassy.

## Structure

-Isolated foliated zones, no large shear zone.

-Lower contact may be a shear zone, with an angle of 135 degrees to c/a (left lateral slip?). There is an abrupt change from moderate to strongly altered volcanics to volcaniclastic mudstone at this contact.

From(m) To(m) -----Description-----

Alteration

- "Albitization" is the main alteration type in this unit, the rock is hard.
- Only a very weak sericitic alteration is present in the matrix.

Mineralization

- From 46.0 - 58.3m, there are numerous 15cm to 1.3m "stringer type" pyritic zones. The pyrite is present in dense masses, blebs, wisps, and filaments, and can range from 0.5 - 1.5%. Smaller concentrated intervals have 1 - 2% pyrite.
- This zone from 46.0 - 59.0 has similar pyrite stringer mineralization as other holes, but it is the footwall.

Veins

- Thin (hairline to 0.5cm) quartz feldspar veins are common over this unit. Vein orientations favour the 40 - 60 degree to c/a orientation, but 2 other vein sets are present at oblique angles to this first set.

Subintervals

- Andesitic dyke? from 56.6 - 57.7 and 58.3 - 59.0m

59.00 64.40 BLACK CHERT - CHERT BRECCIA (3.3)

Lithology

- Dark grey to black, lower section is black.
- Admixture of volcanic debris (<1cm clasts, ash) and argillaceous material.
- Ratio of matrix to clasts changes from 5%clasts to 30% near lower contact, but the shearing makes more accurate determinations difficult.

Structure

- Both contacts are shear related, and there is a quartz-carbonate vein at each contact. The upper contact is at 135 degrees to c/a, while the lower contact is at 60 degrees to c/a. Foliations adjacent to these veins contacts are at different angles and planes (as visualized when the core is rotated).
- The subunit varies from 40 - 50 degrees in the foliated sections. Foliation is weak to moderate.

Alteration

- Alterations are difficult to determine due to the percentage of argillaceous material; but the rock still resists scratching. definite decrease in albite alteration is indicated due to the colour of this unit.

Mineralization

- <0.5% pyrite as secondary (hydrothermal) blebs in the matrix.
- Trace amounts of sphalerite at the lower contact - in the quartz-carbonate vein.



From(m)	To(m)	Description
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64.40	66.00	TUFFACEOUS RHYOLITE -SERICITE -PYRITE (3.9a, Py)
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## Lithology &lt;64.4&gt;-&lt;69.5&gt;

- Medium to dark grey.
- A fragmental volcanic with gradual increase in deformed mudstone fragments from <5% (64.5 - 65.5m) to 25% (68.0 - 69.5m).
- Textures and fabric defined by the degree of foliation and fracturing.

## Structure

- This shear zone has moderate to strong foliation; with angles from 35 - 45 degrees. Elongation and "refolding" of mudstone fragments is common (Transposed foliations noted).
- The shearing continues into the next unit (mudstone proper), and the foliation angles approach 0 -10 degrees, implying that the shear zone is extensive.

## Alteration

- Chloritic and sericitic alteration is "marked" by both the albite alteration and the shearing.
- The matrix is sericitized weakly to moderately.

## Mineralization

- 0.25 - 0.50% pyrite over this interval
- Pyrite appears to replace clasts and follow foliation trends as well.

## Veins

- Hairline to 3mm veins common
- One set is deformed by the shearing, the "albitic" set is crosscutting the younger veins.

66.00	81.40	SULPHIDIC MUDSTONE AND CHERT (3.5), TURBIDITIC MUDSTONE (3.6)
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## Lithology &lt;69.5&gt;-&lt;81.4&gt;

- black, argillite with graphitic partings
- Bedding, laminae are from <1mm to 2.5cm in width
- Upper contact marked by a 15cm "meta-argillite" band
- Lower contact not drilled - Hole was lost at 81.4m.

## Structure

- Continuation of the shear zone logged from 64.4m
- Foliations start at 35 - 45 degrees at the 69.5 - 70.0m interval, and decreases gradually to 0 - 10 degrees after 75.0m
- Bedding is highly irregular and folded and kinked.
- From 76.2 - 81.4m (5.2m interval), the core is ground up, fractured, and fragmented. At least 2.5 metres of core was not recovered, probably between the 78.0 - 80.0 metre depth, but this is not indicated on the drilling block markers.

From(m)      To(m)      -----Description-----

Alteration

-The albite? alteration is present to 81.4m.

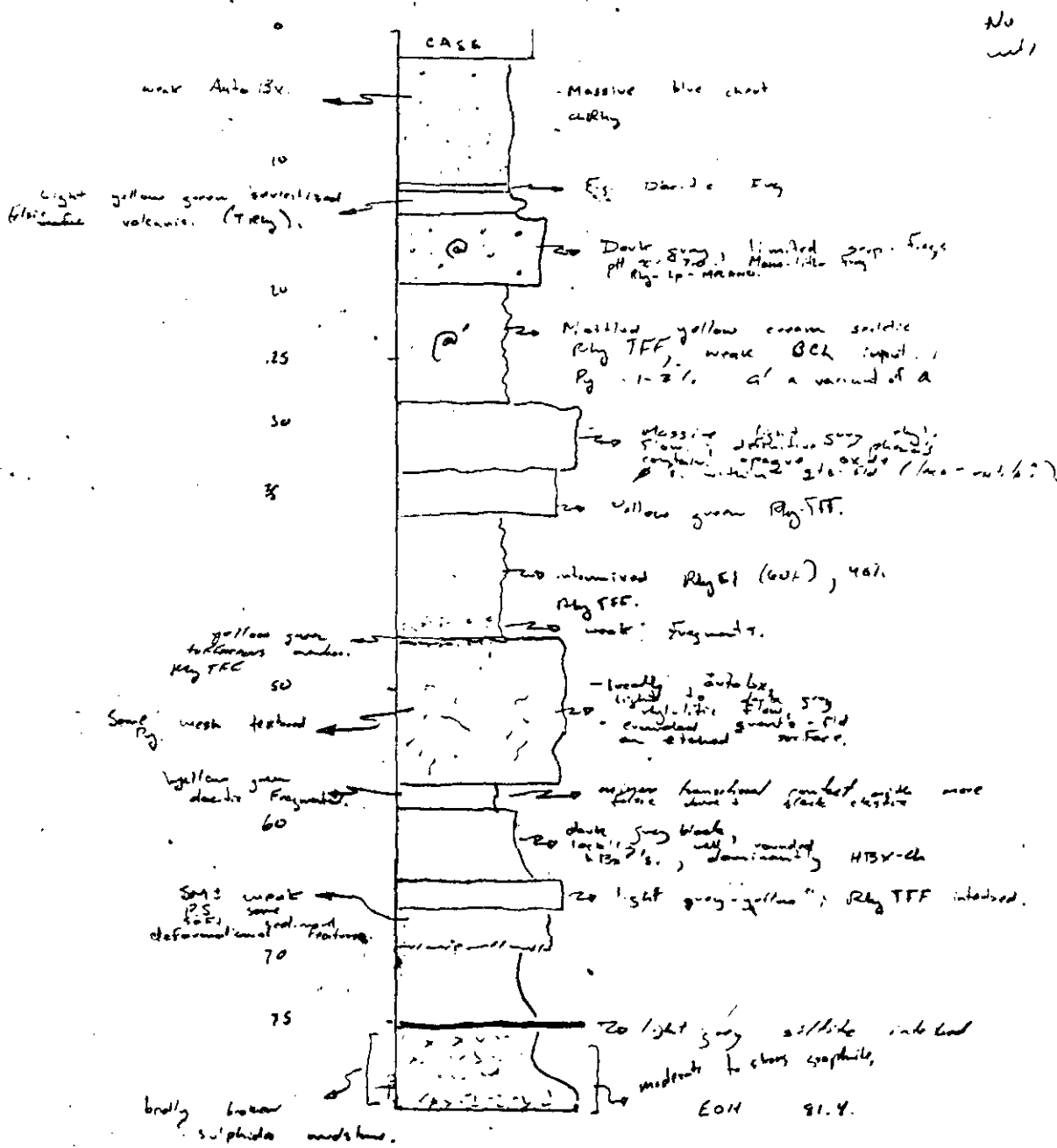
Mineralization

-0.25 - 0.50% pyrite from 69.5 - 76.0m, below that estimation is not possible.  
 -No unusual mineral sulphides were spotted in the broken core zone

Comment

-It is believed that a large fault intersects the "Lulu Mudstone" between 76.1 and 77.1 metres.

81.40      END OF HOLE.



No major faults with trace of

Structure	7.8	∠ 055°	∠ 042° @ 37.0	74.5	031°
	14.2	∠ 040°	45.7 ∠ 047°	031°	∠ ch-sch. @
	19.4	∠ 058°	∠ 044° @ 55°	78.5	
	22.7	∠ 045°	∠ 033° @ 65.5	75.5	∠ 30°; AET
	31.3	∠ 053°	∠ 31° @ 67		

## AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

## - SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-53	10242	2.13	4.00	1.87	-	-	1	-	-	0.5	23	3	43	-	5	20	97	7270	4270
91-53	10243	4.00	6.00	2.00	-	-	1	-	-	0.4	10	2	26	-	4	18	92	6850	4100
91-53	10244	6.00	8.00	2.00	-	-	4	-	-	0.4	17	3	30	-	6	20	85	8610	3530
91-53	10245	8.00	10.00	2.00	-	-	3	-	-	0.5	21	6	49	-	4	18	101	6510	1220
91-53	10246	10.00	12.00	2.00	-	-	5	-	-	0.5	64	8	33	-	6	21	89	7630	7910
91-53	10247	12.00	14.00	2.00	-	-	1	-	-	0.5	28	6	77	-	3	15	72	6270	7740
91-53	10248	14.00	15.80	1.80	-	-	1	-	-	0.6	35	8	101	-	8	20	159	9610	4010
91-53	10249	15.80	16.80	1.00	-	-	1	-	-	0.8	36	5	72	-	8	30	140	20560	11540
91-53	10250	16.80	18.30	1.50	-	-	1	-	-	0.7	21	2	61	-	6	22	97	8540	7980
91-53	10251	18.30	19.10	0.80	-	-	2	-	-	0.7	25	5	70	-	9	36	109	23340	19030
91-53	10252	19.10	21.00	1.90	-	-	1	-	-	0.6	37	5	176	-	7	42	212	18360	7950
91-53	10253	21.00	23.00	2.00	-	-	4	-	-	0.8	22	5	100	-	9	52	177	15110	8290
91-53	10254	23.00	25.00	2.00	-	-	2	-	-	1.0	24	5	99	-	7	55	201	16300	24230
91-53	10255	25.00	27.00	2.00	-	-	1	-	-	0.6	18	4	83	-	8	39	222	17220	4090
91-53	10256	27.00	29.00	2.00	-	-	1	-	-	0.6	26	3	87	-	5	24	121	12900	5400
91-53	10257	29.00	31.00	2.00	-	-	1	-	-	0.6	49	3	41	-	5	21	91	8950	7310
91-53	10258	31.00	33.00	2.00	-	-	5	-	-	0.5	15	2	40	-	3	17	88	8340	11650
91-53	10259	33.00	35.00	2.00	-	-	1	-	-	0.5	27	5	57	-	5	22	144	11880	6500
91-53	10260	35.00	37.00	2.00	-	-	2	-	-	0.7	18	5	58	-	8	18	137	11800	9690
91-53	10261	37.00	39.00	2.00	-	-	5	-	-	0.5	16	3	54	-	4	20	135	7970	5870
91-53	10262	39.00	41.00	2.00	-	-	1	-	-	0.7	19	2	42	-	4	21	92	8140	8360
91-53	10263	41.00	43.00	2.00	-	-	2	-	-	0.6	18	3	46	-	5	23	93	7280	4300
91-53	10264	43.00	45.00	2.00	-	-	1	-	-	0.5	15	2	48	-	4	17	98	7910	3840
91-53	10265	45.00	47.00	2.00	-	-	1	-	-	0.5	17	4	40	-	4	22	93	6890	5420
91-53	10266	47.00	49.00	2.00	-	-	4	-	-	0.4	72	5	12	-	4	10	52	9910	5170
91-53	10267	49.00	51.00	2.00	-	-	1	-	-	0.3	108	14	18	-	5	17	45	19330	4100
91-53	10268	51.00	53.00	2.00	-	-	1	-	-	0.5	73	7	25	-	6	17	48	15110	4180
91-53	10269	53.00	55.00	2.00	-	-	2	-	-	0.4	39	5	38	-	5	21	47	9550	4620
91-53	10270	55.00	57.00	2.00	-	-	2	-	-	0.3	71	9	31	-	7	32	81	20360	2550
91-53	10271	57.00	59.00	2.00	-	-	2	-	-	0.4	44	6	36	-	6	22	102	12910	7880
91-53	10272	59.00	60.00	1.00	0.01	0.001	-	-	-	2.8	96	19	101	1600	14	26	184	15360	8130
91-53	10273	60.00	61.00	1.00	0.01	0.001	-	-	-	2.1	131	21	89	2640	17	23	198	16230	2590
91-53	10274	61.00	62.00	1.00	0.04	0.001	-	-	-	2.2	170	39	109	9875	40	29	410	21120	2840
91-53	10275	62.00	63.00	1.00	0.02	0.001	-	-	-	1.7	150	38	105	1090	60	31	560	22840	2170
91-53	10276	63.00	64.00	1.00	0.02	0.001	-	-	-	1.7	233	56	94	1320	42	29	290	30550	3590
91-53	10277	64.00	65.00	1.00	0.01	0.001	-	-	-	1.6	195	24	106	1320	26	28	338	24130	7790
91-53	10278	65.00	66.00	1.00	-	-	1	-	-	0.1	142	11	45	-	5	17	100	24580	7620
91-53	10279	66.00	67.00	1.00	-	-	1	-	-	0.3	94	16	51	-	16	15	228	16690	4010
91-53	10280	67.00	68.00	1.00	-	-	2	-	-	0.4	89	13	213	-	14	16	164	14750	5590
91-53	10281	68.00	69.00	1.00	-	-	1	-	-	0.5	97	10	79	-	9	16	94	13320	11480
91-53	10282	69.00	70.00	1.00	-	-	1	-	-	0.7	121	28	55	-	39	13	365	23780	7090
91-53	10283	70.00	71.00	1.00	0.05	0.001	-	-	-	2.1	100	16	266	885	38	14	402	17540	8180
91-53	10284	71.00	72.00	1.00	0.06	0.002	-	-	-	2.1	239	23	132	1200	45	10	389	26670	12900
91-53	10285	72.00	73.00	1.00	0.08	0.002	-	-	-	2.4	114	17	91	1150	47	10	622	20380	14450
91-53	10286	73.00	74.00	1.00	0.02	0.001	-	-	-	6.3	203	21	86	1155	75	16	950	29190	8160
91-53	10287	74.00	75.00	1.00	0.01	0.001	-	-	-	2.6	159	24	164	1385	76	22	656	29560	7080
91-53	10288	75.00	76.00	1.00	0.02	0.001	-	2.00	0.06	2.6	281	54	156	1200	87	21	405	40400	7470
91-53	10289	76.00	77.00	1.00	0.02	0.001	-	22.30	0.65	8.0	214	87	144	1480	363	27	984	37490	6440
91-53	10290	77.00	78.00	1.00	0.01	0.001	-	62.50	1.82	90.5	244	124	136	2020	1813	44	1960	46940	5180
91-53	10291	78.00	79.00	1.00	0.01	0.001	-	12.70	0.37	7.9	468	117	103	1920	121	16	830	34010	1830

## AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

## - SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-53	10292	79.00	80.00	1.00	0.01	0.001	-	4.50	0.13	4.4	545	134	130	2340	115	16	816	44630	3530
91-53	10293	80.00	81.00	1.00	0.02	0.001	-	8.60	0.25	4.6	208	93	231	1400	242	16	955	29420	4580
91-53	10294	81.00	81.40	0.40	0.05	0.001	-	3.00	0.09	2.8	373	102	118	1670	91	22	519	30320	3650

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ9+10  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SM PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
10234	.5	4070	90	1	51	1.9	1	7890	.1	2	6	16880	2310	2	2860	35	11	50	1	30	24	13	25	2	15	.9	213	2	1	3	58	1	
10235	.4	3200	72	1	45	1.7	1	5690	.1	1	6	14360	1930	1	1830	37	12	80	1	30	25	12	14	2	11	.4	200	2	1	2	47	1	
10236	.1	2650	231	2	37	2.4	1	8920	.1	6	8	44450	1600	1	3380	62	26	70	1	20	42	27	25	1	15	.9	248	1	1	2	54	20	
10237	.5	3610	57	1	60	1.7	1	7300	.1	1	5	7440	1960	2	2950	50	7	100	1	20	19	9	26	1	12	.7	104	3	1	3	57	2	
10238	.4	7710	45	1	66	2.6	1	2670	.1	1	6	10130	2430	9	6860	57	10	70	1	20	27	9	8	3	16	.9	157	5	1	3	69	1	
10239	.7	7760	40	1	60	2.2	2	6220	.1	2	6	14290	2140	11	11650	110	9	90	1	20	26	7	14	3	16	1.9	99	5	1	3	72	1	
10240	.6	6970	25	1	53	2.1	1	3450	.1	1	5	8440	2230	7	7410	52	3	160	1	10	22	5	9	4	21	1.1	115	5	1	3	57	1	
10241	.6	10950	22	1	33	1.7	2	6810	.1	2	5	11400	1610	15	12740	91	4	260	1	10	28	4	12	3	20	1.8	103	6	1	3	78	2	
10242	.5	2560	23	1	43	1.5	2	4270	.1	1	5	7270	1720	1	510	147	2	410	1	20	20	3	5	2	25	.7	97	3	1	4	98	1	
10243	.4	1940	10	1	26	1.0	1	4100	.1	1	4	6850	980	1	420	175	6	610	2	10	18	2	7	2	32	.6	92	2	1	5	123	1	
10244	.4	2600	17	1	30	1.1	1	3530	.1	1	6	8610	1150	2	720	153	2	480	1	10	20	3	5	1	28	.5	85	3	1	5	120	4	
10245	.5	2470	21	1	49	1.5	1	1220	.1	1	4	6510	1710	1	510	114	5	410	1	10	18	6	3	2	24	.6	101	2	1	4	107	3	
10246	.5	2140	64	1	33	1.2	1	7910	.1	1	6	7630	1400	1	590	165	1	340	1	10	21	8	10	1	17	.7	89	2	1	4	111	5	
10247	.5	3000	28	1	77	2.5	1	7740	.1	1	3	6270	2430	1	1500	163	4	50	1	20	15	6	9	1	13	.9	72	2	1	2	51	1	
10248	.6	2060	35	1	101	1.2	1	4010	.1	2	8	9610	1890	1	210	109	49	100	1	20	20	8	7	1	11	.7	159	1	1	4	107	1	
10249	.8	1940	36	1	72	1.4	1	11540	.1	2	8	20560	2050	1	280	361	66	130	1	20	30	5	22	1	14	1.2	140	1	1	3	72	1	
10250	.7	1770	21	1	61	1.3	1	7980	.1	1	6	8540	1770	1	240	196	52	100	1	20	22	2	15	1	12	.6	97	2	1	3	76	1	
10251	.7	2700	25	8	70	2.4	1	19030	.1	2	9	23340	2460	1	590	618	24	90	1	30	36	5	32	1	27	1.1	109	1	1	3	74	2	
10252	.6	3600	37	7	176	2.6	1	7950	.1	2	7	18360	2670	1	2070	330	24	90	1	30	42	5	19	2	25	1.0	212	1	1	3	69	1	
10253	.8	4330	22	6	100	2.6	1	8290	.1	2	9	15110	2960	1	1730	433	13	110	1	20	52	5	15	3	36	1.0	177	2	1	4	78	4	
10254	1.0	5890	24	7	99	2.9	3	24230	.1	2	7	16300	3550	2	3560	1016	28	80	1	40	55	5	48	5	52	1.9	201	3	1	3	63	2	
10255	.6	4750	18	5	83	3.0	1	4090	.1	2	8	17220	2910	2	3290	228	18	70	1	10	39	4	9	3	31	.7	222	2	1	3	50	1	
10256	.6	4650	26	4	87	2.1	2	5400	.1	2	5	12900	2260	3	1940	165	20	190	1	20	24	3	9	2	33	.7	121	2	1	3	73	1	
10257	.6	3680	49	3	41	1.2	2	7310	.1	1	5	8950	1540	2	2300	181	2	260	1	10	21	3	14	2	20	1.0	91	3	1	4	101	1	
10258	.5	2380	15	2	40	1.3	2	11650	.1	1	3	8340	1450	1	3140	317	6	250	1	20	17	2	28	1	14	1.3	88	2	1	5	121	5	
10259	.5	2870	27	3	57	2.0	1	6500	.1	2	5	11880	1970	1	2400	207	2	140	1	20	22	5	15	2	18	.9	144	2	1	4	79	1	
10260	.7	3440	18	3	58	1.8	1	9690	.1	1	8	11800	2190	1	1880	255	5	230	1	20	18	5	22	3	28	1.3	137	2	1	4	86	2	
10261	.5	3530	16	3	54	1.7	1	5870	.1	1	4	7970	2160	1	2050	154	2	250	1	20	20	3	13	4	39	.8	135	3	1	4	95	5	
10262	.7	4190	19	3	42	1.5	1	8360	.1	1	4	8140	1920	1	2270	238	5	410	1	10	21	2	15	4	49	1.3	92	4	1	5	113	1	
10263	.6	4060	18	2	46	1.4	2	4300	.1	1	5	7280	2070	1	1910	129	2	370	1	10	23	3	7	3	51	.9	93	3	1	5	109	2	
10264	.5	4280	15	2	48	1.8	2	3840	.1	1	4	7910	2120	2	2090	121	5	280	1	40	17	2	5	2	34	.8	98	3	1	4	80	1	
10265	.5	3010	17	1	40	1.5	1	5420	.1	1	4	6890	1800	1	1880	107	5	290	1	90	22	4	15	2	31	.9	93	2	1	5	104	1	
10266	.4	1130	72	1	12	.3	1	5170	.1	2	4	9910	170	1	540	55	11	850	1	70	10	5	9	1	22	.9	52	1	1	7	168	4	
10267	.3	1500	108	1	18	.5	1	4100	.1	2	5	19330	630	1	170	32	12	750	1	60	17	14	8	1	28	.7	45	1	1	7	172	1	
10268	.5	1710	73	1	25	.6	1	4180	.1	2	6	15110	830	1	190	40	16	730	1	30	17	7	8	1	31	.8	48	2	1	7	188	1	
10269	.4	1880	39	1	38	.6	1	4620	.1	2	5	9550	1220	1	200	37	6	530	1	40	21	5	7	2	30	.5	47	1	1	7	174	2	
10270	.3	2130	71	1	31	1.2	1	2550	.1	3	7	20360	1280	1	430	37	14	390	1	50	32	9	4	2	31	.3	81	1	1	5	128	2	
10271	.4	2810	44	1	36	1.9	1	7880	.1	2	6	12910	1430	1	1260	111	7	320	1	50	22	6	13	1	16	.7	102	2	1	4	103	2	
10272	.6	7770	96	1	101	2.1	1	8130	.1	3	14	15360	3890	3	1840	89	16	1580	19	90	26	19	8	3	44	8.2	184	3	1	5	130	1600	
10273	.5	5910	131	1	89	1.5	1	2590	.1	3	17	16230	3210	1	440	50	20	1340	25	90	23	21	5	2	36	9.7	198	1	1	6	142	2640	
10274	.8	7170	170	1	109	2.1	1	2840	1.3	5	40	21120	4020	1	610	76	67	1250	109	350	29	39	5	4	49	24.6	410	1	1	4	86	9875	
10275	.5	6260	150	1	105	1.8	1	2170	3.6	7	60	22840	3640	1	560	99	48	1390	89	480	31	38	4	2	44	30.4	560	1	1	3	78	1090	
10276	.3	6080	233	1	94	1.9	1	3590	.1	7	42	30550	3660	1	670	88	126	1730	138	230	29	56	6	3	27	14.5	290	1	1	3	64	1320	
10277	.3	5310	195	1	106	1.7	1	7790	.1	4	26	24130	3150	1	2330	112	37	2130	42	140	28	24	25	4	32	10.5	350	1	1	4	89	1320	
10278	.1	2120	142	2	45	1.2	1	7620	.1	2	5	24580	1350	1	1640	95	21	150	1	40	17	11	15	1	10	.9	100	1	1	4	97	1	
10279	.3	1990	94	1	51	1.1	1	4010	1.0	3	16	16690	1400	1	630	51	19	630	15	130	15	16	6	1	10	3.0	228	1	1	3	73	1	
10280	.4	2550	89	1	213	1.0	1	5590	.1	3	14	14750	1290	1	1780	78	20	660	14	110	16	13	11	1	10	4.7	164	1	1	4	99	2	
10281	.5	3040	97	1	79	1.0	2	11480	.1	2	9	13320	1210	1	4980	143	12	420	9	330	16	10	37	1	13	4.7	94	2	1	6	137	1	
10282	.7	4920	121	2	55	1.4	1	7090	3.4	6	39	23780	1440	4	4700	212	14	510	30	280	13	28	14	1	23	22.7	365	2	1	4	82	1	
10283																																	

COMP: COPELAND, REBAGLIATI & ASSOC.

PROJ: 9101

ATTN: M.REBAGLIATI

MIN-EN LABS — ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ11+12

DATE: 91/10/17

\* ROCK \* (ACT:F31)

Table with columns for SAMPLE NUMBER and various chemical elements (AG, AL, AS, B, BA, BE, BI, CA, CD, CO, CU, FE, K, LI, MG, MN, MO, NA, NI, P, PB, SB, SR, TH, TI, V, ZN, GA, SN, W, CR, AU-FIRE, HG) and their corresponding PPM values. Includes handwritten annotations like '53' and '91-53'.



**MIN-EN LABORATORIES**  
(DIVISION OF ASSAYERS CORP.)

91-53

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
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3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

Assay Certificate

1S-0124-RA4

Company: **COPELAND REBAGLIATI & ASSOC.**  
Project: 9101  
Attr: MARK REBAGLIATI

Date: JUL-18-91  
Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify* the following Assay of 23 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton
10272	.01	.001
10273	.01	.001
10274	.04	.001
10275	.02	.001
10276	.02	.001
10277	.01	.001
10283	.05	.001
10284	.06	.002
10285	.08	.002
10286	.02	.001
10287	.01	.001
10288	.02	.001
10289	.02	.001
10290	.01	.001
10291	.01	.001
10292	.01	.001
10293	.02	.001
10294	.05	.001

Certified by \_\_\_\_\_

MIN-EN LABORATORIES





**MIN-EN**  
**LABORATORIES**  
 (DIVISION OF ASSAYERS CORP.)

91-53

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Geochemical Analysis Certificate

1S-0124-RG4

Company: COPELAND REBAGLIATI & ASSOC.  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-18-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify the following Geochemical Analysis of 23 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.*

Sample Number	AG PPM
10272	2.8
10273	2.1
10274	2.2
10275	1.7
10276	1.7
10277	1.6
10283	2.1
10284	2.1
10285	2.4
10286	6.3
10287	2.6
10288	2.6
10289	8.0
10290	90.5
10291	7.9
10292	4.4
10293	4.6
10294	2.8

Certified by

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**MLN-EN LABORATORIES**  
(DIVISION OF ASSAYERS CORP.)

91-53

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
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Assay Certificate

1S-0124-XA1

Company: **COPELAND REBAGLIATI & ASSOC.**  
Project: 9101  
Attn: MARK REBAGLIATI

Date: JUL-18-91  
Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify* the following Assay of 19 ROCK samples submitted JUL-17-91 by MARK REBAGLIATI.

Sample Number	AG	AG	<i>Replica</i> AG	<i>Replica</i> AG
	g/tonne	oz/ton	g/tonne	oz/ton
10288	2.0	.06	1.7	.05
10289	22.3	.65	6.5	.19
10290	62.5	1.82	61.0	1.78
10291	12.7	.37	5.1	.15
10292	4.5	.13	4.6	.13
10293	8.6	.25	12.5	.36
10294	3.0	.09	2.8	.08

\* Metallic Silver Noted in samples, so rerun to check, use 1st + 2nd columns when reporting

Certified by

MLN-EN LABORATORIES

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD.		91-54
SIB PROPERTY		DIAMOND DRILL LOG
<hr/>		
NTS MAP # : 104B/9	CLAIM # : SIB 12, 33, 35	
LOCAL GRID : 8860.83 N / 9671.66 E	GLOBAL GRID : 13264.56 N / 17719.15 E	
LENGTH : 213.40 m	INCLINATION : -60 degrees	ELEVATION : 988.19 metres
OVERBURDEN : 1.60 m	CASING : 1.60 metres	AZIMUTH : 116.5 degrees
LOGGED BY : Paul Lawnikanis	DRILLED BY : J.T. Thomas	ASSAYING BY : Min-En Labs
DATE LOGGED : 1991/07/09	DATE DRILLED : 1991/07/08	CORE LOCATION: 86+30 N, 96+70 E
Y/M/D	Y/M/D	SAMPLE NO. SERIES : 10295-10406

SUMMARY LOG 91-54

From(m)	To(m)	Field Name (Legend)
0.00	1.60	CASING
1.60	15.00	RHYODACITIC FRAGMENTAL (3.0), TUFFACEOUS RHYOLITE (3.9)
15.00	53.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
53.00	65.00	CHERTY RHYOLITIC FLOW (3.7)
65.00	88.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
88.00	92.00	DIORITE DYKE (6.1)
92.00	121.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
	102.00 - 103.00	DIORITE DYKE (6.1)
121.00	128.00	CHERTY RHYOLITIC FLOW (3.7)
128.00	153.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
	139.00 - 135.00	DIORITE DYKE (6.1)
153.00	159.20	RHYODACITIC FRAGMENTAL (3.0)
159.20	177.20	DIORITE DYKE (6.1)
177.20	183.70	RHYODACITIC FRAGMENTAL (3.0)
183.70	186.30	DIORITE DYKE (6.1)
186.30	191.80	RHYODACITIC FRAGMENTAL (3.0)
191.80	194.00	BLACK TUFFACEOUS MUDSTONE (2.8)
194.00	195.40	HEMATITIC POLYMIC TIC VOLCANIC WACKE (2.4), SUB-AERIAL INTERMEDIATE FRAGMENTAL (2.3)
195.40	198.00	SUB-AERIAL HEMATITIC DEBRIS FLOW (2.1)
198.00	211.00	SUB-AERIAL INTERMEDIATE FRAGMENTAL -IRON CARBONATE (2.3F)
211.00	213.40	CHLORITIC VOLCANIC WACKE (2.0) +/- SUB-AERIAL INTERMEDIATE FRAGMENTAL (2.3)
213.40		END OF HOLE.

ANALYTICAL HIGHLIGHTS 91-54

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
---------	-------	-----------	-----------	-----------	------	------

No significant results.

From(m)	To(m)	Description
0.00	1.60	CASING
1.60	15.00	RHYODACITIC FRAGMENTAL (3.0), TUFFACEOUS RHYOLITE (3.9)
15.00	53.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
53.00	65.00	CHERTY RHYOLITIC FLOW (3.7)
65.00	88.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
88.00	92.00	DIORITE DYKE (6.1)
92.00	121.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
	102.00 - 103.00	DIORITE DYKE (6.1)
121.00	128.00	CHERTY RHYOLITIC FLOW (3.7)
128.00	153.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
	139.00 - 135.00	DIORITE DYKE (6.1)
153.00	159.20	RHYODACITIC FRAGMENTAL (3.0)

## Lithology

-From 1.6 - 159.2 the unit is similar to the drilled lithology of hole 91-53, except that the zones are deeper in the section. Like 91-53, the key changes of the rock observed is related to both alteration and structural changes. Therefore all key changes in texture and fabric will be discussed under a combined Alteration - Structure subheading.

-This unit is a felsic to intermediate (composition range) fragmental volcanic. The fragments (both angular and rounded) usually range from 3mm - 38mm widths. The matrix composition and percentage are variable, due to the internal changes of the sequence and the subsequent metamorphic/deformation changes.

## Structure - Alteration - Mineralization

-1.6 - 18.5m: Semi-massive to very weakly foliated, isolated, <50cm zones of moderate foliation, in these zones, there is weak to moderate sericite alteration. Moderate albite? alteration throughout; rock is hard. Weak shearing from 17 - 18.5m, foliation from 40 - 50 degrees. Trace (<0.25%) pyrite locally.

-18.5 - 20.0: Shear zone, moderate foliations from 5 - 25 degrees, weakly chloritic.

-20.0 - 28.0: See 2.1 - 18.5m description; addenda: the 2.1 - 28.0m zone has small quartz -albite? veins of hairline to 0.4cm widths. The same veining is present in other alteration sections.

-28.0 - 30.0: Small fault zone; fractured core from 28.0 - 30m; gouge at 29.0 and 29.3m. The zone has 5 - 8% < 2mm calcareous and feldspathic vein material. Pyrite poor, specs of pyrite noted only.

-34.2 - 37.7: Shear zone, moderate foliation, core axis angles from 30 - 45 degrees; but locally down to 10 degrees; moderate sericite alteration and albitic alteration, specs of pyrite.

From(m)	To(m)	-----Description-----
		-37.7 - 46.0: Zone of mixed massive rock, weakly foliated greenish rock, and from 43.0 - 45.7m the core is broken up. Slip zones (gouge plus matrix rock) at 43.6 and 45.5 metres.
		-46.0 - 82.6: Zone of very weak to non foliated albitic? rich rock (grey to white in places) with scattered intervals of moderate foliation. Moderate foliation zones are sericitized and chloritic. The chloritic content increases gradually down dip. No mineralized zones are present.
		-52.0: 2.5 cm quartz-feldspar vein, barren
		-52.5: 10cm slip zone, hematitic (rusty)
		-54.0 - 55.0: shear zone, moderate foliation and alteration, c/a = 15, 35 degrees.
		-67.8 - 71.2: chloritic rich shear intervals 35 - 50 degrees to c/a; separated by chloritic zones.
		-71.5m: 6cm slip zone, rusty.
		-76.35: 8cm bull quartz vein, 65, 75 degrees to c/a, trace pyrite, 5% xenolith material.
		-76.7: 1.5cm bull quartz vein, 65, 75 degrees to c/a, vuggy texture, barren.
		-81.0: 7cm quartz feldspar vein, broken in core, 5% xenolith, barren.
		-82.6 - 85.9: Weak to moderate foliation zone, albitic, with chloritic rich sections, shear angles variable, lower 35cm contact sericitic, trace (<0.25%) pyrite.
		-85.9 - 88.8: Breccia Dyke, related to andesitic dyke, but brecciated and fractured. Contains fragments or xenoliths of mudstone, volcanics, and is veined. 0.25 to 0.50% pyrite overall, with pyrite in fractured zones. Hydrothermally emplaced.
		-88.8 - 95.8: Moderately sericitized shear zone; medium apple green to light grey-green. -Core angles from 40 - 50 degrees, fractured lower contact.
		-95.8 - 101.6: Zone of fracturing, with a fault from 98.5 - 99.4 metres. Fault contacts at 30 - 40 degrees to c/a, and gouge is well cemented. Spotted texture on the fractured sections above and below the fault. Weak chlorite, sericite and moderate albitic? alteration. Specs of pyrite only.
		-101.6 - 113.7: Weak to moderate sericitically altered section, weak foliations locally. -Weak to moderate albitic alteration. -Breccia dyke from 111.1 - 112.2 metres.

From(m) To(m) -----Description-----

-113.7 - 116.8: Shear zone; moderate to strong foliation, 0 - 10 degrees to c/a, 5 degrees average  
 -Refolding of foliation common, fragments are elongated. Green chlorite common, moderate sericite alteration. Contacts sharp at 15 cm to non foliated zones.(?)

-116.8 - 128.7: Relatively unsheared zone (isolated foliation zones) of grey-green to medium grey rock. Distinguished by numerous quartz-feldspar veins from 1mm - 3cm. Most veins are 4 - 6mm, and are 50 - 70 degrees to c/a.  
 -Weakly sheared, chlorite rich lower contact from 127 - 128.7 metres.

-128.7 - 139.5: Shear zone?: Moderately foliated to locally weakly foliated zone of medium greenish-grey rock with moderate sericite alteration. Chloritic slumps and stretched epiclastic (mudstone?) fragments common. Transposed foliations throughout. Matrix looks rotated due to plastic flow of this zone. Contacts sharp 10cm with angles of 110 - 130 degrees to c/a. (Matrix rich sections act as passive flow markers in the zone).

-139.5 - 145.5: Brecciated dykes with xenoliths (unintruded sections) of strongly altered and deformed country rock.  
 -Fracture/slip zones with rubbly core at 141.7m, 141.8m, 143.6m, 145.4m.  
 -Very low percentage of pyrite (trace only).

145.5 - 147.5: Shear zone; strong foliation with c/a angles from 0 to 10 degrees, upper contact 145.5 - 145.7 fractured heavily, also undulating first foliation noted, moderately sericitized, with a moderate albitic overprint.  
 -Steel grey zone of strongly albitized rock, massive, veining common. Very hard.

-148.8 - 155.5: Strong shear zone; strongly (highly) foliated with transposed foliations common; contacts change from 40 - 0 degree. Foliation over 25cm width. Moderate to strong sericite alteration, and weak albitic alteration. Rock is scratched by steel nail.  
 -Chloritic volcanic clasts and mudstone clasts and breccia material stretched out in numerous spots. Internally complex fold, foliation pattern.  
 -Unmineralized to specs of pyrite.

-155.5 - 157.4: Weak shear zone, less alteration, more massive looking, but still very difficult to determine original textures.

-157.4 - 159.2: Greenish grey sericitic-chloritic rock with weak foliation and moderate albite alteration.  
 -Sharp lower contact with intrusive breccia, unmineralized.

159.20 177.20 DIORITE DYKE (6.1)

Lithology <159.2>-<169.0>

-Greyish green, brecciated with full range of rounded to angular fragments, texture and fabrics change from 10 - 30cm intervals. Generally there is 60 - 80% breccia and 20 - 40% matrix. Some sections have country rock fragments, chloritic, sericitic, albitic, and then andesitic porphyritic fragments.

From(m) To(m) -----Description-----
 

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## Alteration, Mineralization

- Unit is albitized?, and pyrite is common coating and surrounding grains. 0.25 - 0.50% pyrite throughout as an average, but some section with 3 - 5% pyrite (Heavily sampled in hole 91-49).
- Some country rock xenolith zones at 159.6 - 160.2, 166.0 - 166.5, and 168.5 - 169.0m.
- Lower contact 168.5 - 169.0 fractured and "baked" by contact metamorphism.

## Lithology &lt;169.0&gt;-&lt;177.2&gt;

- Medium grey to salmon colour; 25 - 30%, 1 - 1.5mm plagioclase phenocrysts, massive texture (non-foliated) and porphyritic, weakly fractured during crystallization, giving the rock a pseudo-fragment texture. Weak to very weak alteration (leucoxene bearing) and overprinted by albitic alteration. Brecciated upper and lower contacts. Upper contact was also baked and metamorphosed.

177.20 183.70 RHYODACITIC FRAGMENTAL (3.0)

## Lithology

- Medium-dark grey, moderately foliated, 30 - 50% subangular brecciated fragments base in a medium grey-green matrix. Fragments are both chloritic (dark green) and epiclastic (mudstone?).

## Structure

- Shearing (polyphase) throughout unit. Average c/a angles from 0 - 20 degrees. Lower 1 metre is at 30 - 35 degrees to foliation and is a more "regular" fragmental volcanic.
- Sharp lower contact due to repeat of the dyke unit, Possible Marker Unit

## Alteration

- Albitic alteration absent?

## Mineralization

- Trace pyritic specs and blebs.

183.70 186.30 DIORITE DYKE (6.1)

## Lithology

- See both 159.2 - 169m and 169 - 177.2m intervals
- Over the present interval; this dyke disrupts the stratigraphy, and "mares" the transition from brecciated, sheared volcanics to more foliated/sericitized volcanics.
- Probably the dyke is emplaced within this broad shear zone.
- Within the dyke (from 185.8 - 186.1m) there is a strongly sericitized and sheared melange of volcaniclastic material. This thin 30cm band is similar to the unit below the dyke.

From(m)	To(m)	Description
		<p>Structure</p> <ul style="list-style-type: none"> <li>-Dyke has an upper contact of 60.0 degrees, and a lower contact of 85 degrees. Both are intrusive, but the lower contact rests in a "new shear zone".</li> </ul>
186.30	191.80	<p>RHYODACITIC FRAGMENTAL (3.0)</p> <p>Lithology &lt;186.3&gt;-&lt;189.5&gt;</p> <ul style="list-style-type: none"> <li>-Medium greenish grey, hard, foliation moderate from 0-15 degrees; in part a mylonitic texture. Chloritic, sericitic layers "refolded" and reground in the glassy matrix.</li> <li>-Fracturing or weak brecciation of the rock has permitted for a veining network of chloritic filaments to develop. Isolated pyritic specs noted.</li> <li>-Lower 15cm has foliation change from 20 - 50 degrees. (See next division)</li> </ul> <p>Lithology &lt;189.5&gt;-&lt;191.8&gt;</p> <ul style="list-style-type: none"> <li>-This small zone resembles a "passive marker" bed of rock that "escaped" shearing, mylonitization, and fluid (sericitic) alteration.</li> <li>-Greyish with weak isolated chloritic, sericitic alteration, very hard, textures/fabric partially preserved.</li> <li>-Apparent core angles from 45 - 60 degrees, but the textures are hidden by the overprinting alteration.</li> <li>-&lt; 6cm dyke rock cutting interval at 3 locations.</li> </ul>
191.80	194.00	BLACK TUFFACEOUS MUDSTONE (2.8)
194.00	195.40	HEMATITIC POLYMICITIC VOLCANIC WACKE (2.4), SUB-AERIAL INTERMEDIATE FRAGMENTAL (2.3)
		<p>Lithology</p> <ul style="list-style-type: none"> <li>-Melange of strongly altered Dilworth rock and blackish mudstone, entire unit is like a repeat of the upper 2 shear/alteration zone.</li> <li>Eg:191.4 - 191.8: Sericitic sheared transition zone.</li> <li>191.8 - 193.2: Strongly foliated and veined mudstone.</li> <li>193.2 - 194.0: Intensity sericitized (green) Dilworth (sericitite).</li> <li>194.0 - 194.4: Moderately foliated mudstone, c/a angles at 40 - 50 degrees to foliation, less well veined.</li> <li>194.4 - 195.4: A mixed sericitic, albitic zone with profuse veining.</li> <li>-Veining, 2 - 3% of the entire zone, consists of quartz, quartz-feldspar, and carbonate veins. Relationship complex.</li> </ul> <p>Structure</p> <ul style="list-style-type: none"> <li>-More shearing (plastic flow) was "take-up" by the upper portion of the zone (191.8 - 194.0 metres). This may represent the lower part of the lower shear zone.</li> <li>-The mudstone is dragged or "transported" within the shear zones, it itself is truncated and discontinuous.</li> <li>-Lower contact from 195.3 - 195.4 resembles an "intrusive contact". Both the sericite band at 195.3 and the brecciated band at 195.4 have c/a angles of 70 - 80 degrees.</li> <li>-A similar rock package is present at Hole 91-49, but with the absence of albitic? alteration.</li> </ul>



From(m)	To(m)	Description
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## Mineralization

-Trace pyrite noted throughout core. But at 194.0 metres, a 3cm zone of stringer pyrite is present; with 3 -10% pyrite.

195.40	198.00	SUB-AERIAL HEMATITIC DEBRIS FLOW (2.1)
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## Lithology &lt;195.4&gt;-&lt;196.8&gt;

-Medium grey to "salt and pepper" like colour.

Mixture of lapilli and crystals in a grey (welded?) matrix. Matrix of crystal and ash; with 25 - 30% heterolithic fragment material. Almost 50% clastic and 50% volcanic fragments. Includes mudstone, siltstone, chert, pure quartz, and rhyolitic to andesitic material. Clasts of the lower unit noted in this unit.

-Appears to fine up (Tops westward) with weak bedding or foliation planes at 45 degrees.

-Unit is hard, possibly due to alteration or % of quartz in the rock.

## Structure

-Sharp lower contact, probably due to mode of deposition.

198.00	211.00	SUB-AERIAL INTERMEDIATE FRAGMENTAL -IRON CARBONATE (2.3F)
211.00	213.40	CHLORITIC VOLCANIC WACKE (2.0) +/- SUB-AERIAL INTERMEDIATE FRAGMENTAL (2.3)

## Lithology &lt;196.8&gt;-&lt;213.4&gt;

-Greenish grey to yellowish green, abrupt colour changes due to alteration.

-Matrix supported lapilli (or welded tuff?) type volcanic. Matrix a complex mixture of ash, crystals and very small shards. All packed together.

-Fragments, principally dacitic and andesitic, at a 5 or 4 to 1 ratio to felsic fragments make up to 30 - 40% of the unit. Most fragments appear to have chloritic or sericitic alteration.

-Small interbed of volcanoclastic ash tuff from 197.7 - 198.0 metres. Oblique contacts.

## Structure - Alteration

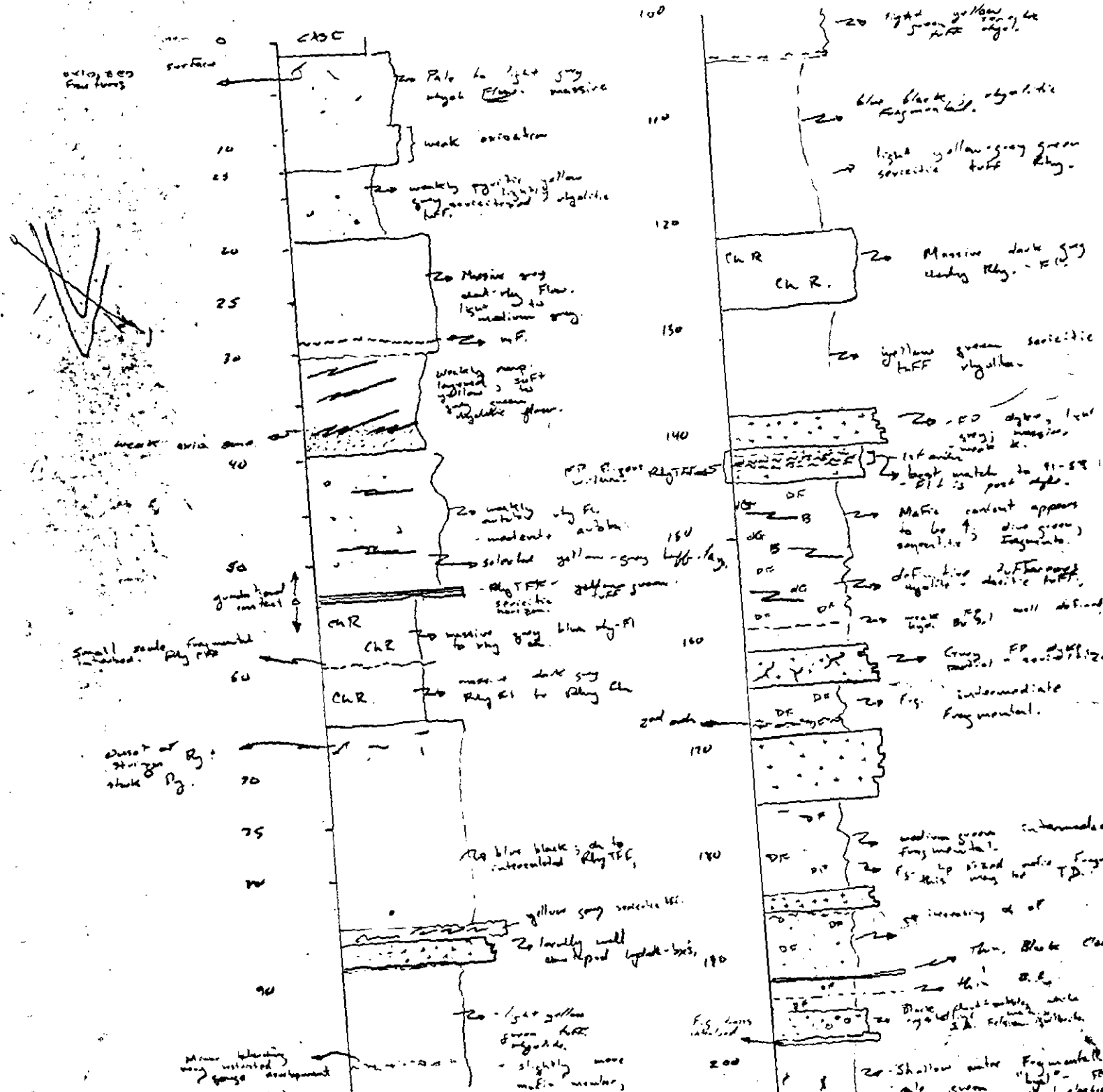
-Very weak foliation noted at 35 - 50 degrees to c/a; slip (fracture) at 199.7 - 200.0m. Zone is partially "ground-up", c/a angles in this zone from 15 - 25 degrees.

-Albitic? alteration noted, weak.

-Sericitic alteration? or other fluids alteration (moderate potassic alteration) from 211.4 - 213.4m. Rock is yellowish and hard.

213.40	END OF HOLE.
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does correspond well on surface  
with orange b.c.f. (Ry FI-13x?)



Geological DATA:

53.5	100	035°	177.8	100	043°
71.5	100	034°	192	100	018°, 15° det.
84.8	100	018°	155	100	005°
107	100	038° = 0.6	190	100	002°
121	100	010°	209	100	032°
137.5	100	030°			
143.3	100	01°			020°
218.7	210				EOH

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91-54	10295	1.60	4.00	2.40	-	-	3	-	-	0.5	26	5	31	-	5	19	105	8190	1160	
91-54	10296	4.00	6.00	2.00	-	-	1	-	-	0.5	21	2	26	-	11	18	77	7430	1880	
91-54	10297	6.00	8.00	2.00	-	-	2	-	-	0.6	21	2	31	-	4	22	114	8620	7440	
91-54	10298	8.00	10.00	2.00	-	-	1	-	-	0.5	31	9	56	-	5	27	123	8140	5240	
91-54	10299	10.00	12.00	2.00	-	-	2	-	-	0.5	48	9	44	-	5	27	97	6170	5420	
91-54	10300	12.00	14.00	2.00	-	-	1	-	-	0.8	62	9	343	-	3	18	75	6810	4310	
91-54	10301	14.00	16.00	2.00	-	-	1	-	-	0.9	26	7	154	-	3	23	115	5320	9710	
91-54	10302	16.00	18.00	2.00	-	-	3	-	-	0.9	23	6	143	-	3	21	100	5560	8050	
91-54	10303	18.00	20.00	2.00	-	-	1	-	-	0.7	16	4	80	-	4	23	110	9890	6490	
91-54	10304	20.00	22.00	2.00	-	-	4	-	-	0.7	15	6	61	-	4	21	98	9330	8020	
91-54	10305	22.00	24.00	2.00	-	-	1	-	-	0.6	42	5	124	-	5	24	98	13670	4120	
91-54	10306	24.00	26.00	2.00	-	-	1	-	-	0.5	39	4	79	-	4	16	60	8400	4240	
91-54	10307	26.00	28.00	2.00	-	-	2	-	-	0.7	60	5	34	-	19	21	55	14340	6610	
91-54	10308	28.00	30.00	2.00	-	-	1	-	-	1.0	54	4	130	-	6	19	94	16920	18710	
91-54	10309	30.00	32.00	2.00	-	-	2	-	-	0.9	18	5	73	-	7	46	113	8610	7770	
91-54	10310	32.00	34.20	2.20	-	-	1	-	-	0.6	30	3	64	-	4	24	109	12240	6240	
91-54	10311	34.20	36.00	1.80	-	-	1	-	-	0.9	25	5	93	-	6	30	167	13320	9590	
91-54	10312	36.00	38.00	2.00	-	-	3	-	-	0.9	15	4	71	-	4	21	123	8950	10900	
91-54	10313	38.00	40.00	2.00	-	-	1	-	-	0.6	15	4	100	-	4	24	101	10870	3270	
91-54	10314	40.00	41.70	1.70	-	-	2	-	-	0.8	14	3	71	-	6	28	128	10120	7750	
91-54	10315	41.70	44.00	2.30	-	-	1	-	-	0.9	27	5	30	-	8	28	112	7370	8300	
91-54	10316	44.00	46.00	2.00	-	-	2	-	-	0.7	19	4	34	-	6	19	97	8850	7780	
91-54	10317	46.00	48.00	2.00	-	-	4	-	-	0.6	27	4	411	-	5	24	149	9820	5730	
91-54	10318	48.00	50.00	2.00	-	-	1	-	-	0.6	20	4	49	-	6	27	134	12820	2470	
91-54	10319	50.00	52.00	2.00	-	-	2	-	-	0.8	18	3	26	-	4	21	80	7320	6980	
91-54	10320	52.00	54.00	2.00	-	-	1	-	-	0.9	18	4	42	-	5	25	144	11270	10760	
91-54	10321	54.00	56.00	2.00	-	-	3	-	-	0.7	16	5	73	-	6	30	108	10850	4730	
91-54	10322	56.00	58.00	2.00	-	-	1	-	-	0.8	22	4	32	-	4	21	94	6280	4210	
91-54	10323	58.00	60.00	2.00	-	-	2	-	-	0.8	26	5	46	-	5	31	95	12970	3300	
91-54	10324	60.00	62.00	2.00	-	-	1	-	-	0.9	27	7	36	-	6	32	148	10520	4430	
91-54	10325	62.00	64.00	2.00	-	-	2	-	-	0.8	19	4	35	-	3	17	74	11590	4370	
91-54	10326	64.00	66.00	2.00	-	-	1	-	-	0.7	29	6	46	-	4	21	79	9050	6520	
91-54	10327	66.00	68.00	2.00	-	-	2	-	-	0.7	23	5	57	-	4	17	99	8370	3780	
91-54	10328	68.00	70.00	2.00	-	-	1	-	-	0.8	15	4	39	-	4	26	93	8190	7920	
91-54	10329	70.00	72.00	2.00	-	-	1	-	-	0.7	16	3	56	-	4	21	116	7000	6750	
91-54	10330	72.00	74.00	2.00	-	-	2	-	-	0.5	19	1	9	-	3	15	70	5300	6290	
91-54	10331	74.00	76.00	2.00	-	-	1	-	-	0.5	33	5	33	-	4	19	141	9070	7590	
91-54	10332	76.00	78.00	2.00	-	-	3	-	-	0.6	22	2	47	-	5	20	123	10990	6010	
91-54	10333	78.00	80.00	2.00	-	-	1	-	-	0.6	20	1	29	-	5	21	81	8290	8400	
91-54	10334	80.00	82.00	2.00	-	-	2	-	-	0.8	17	1	21	-	6	20	96	7610	11270	
91-54	10335	82.00	84.00	2.00	-	-	1	-	-	0.8	20	3	47	-	6	27	124	9580	4630	
91-54	10336	84.00	86.00	2.00	-	-	2	-	-	0.7	23	2	72	-	6	28	114	10620	4640	
91-54	10337	86.00	88.00	2.00	-	-	1	-	-	1.1	43	6	54	-	15	25	69	11300	14720	
91-54	10338	88.00	90.00	2.00	-	-	2	-	-	0.9	37	4	51	-	10	22	70	13430	9440	
91-54	10339	90.00	92.00	2.00	-	-	1	-	-	1.1	35	5	93	-	8	27	133	18780	3500	
91-54	10340	92.00	94.00	2.00	-	-	4	-	-	0.9	24	4	87	-	5	24	113	12010	2770	
91-54	10341	94.00	96.00	2.00	-	-	1	-	-	0.7	19	6	81	-	7	22	113	9030	1870	
91-54	10342	96.00	98.00	2.00	-	-	1	-	-	0.8	21	5	88	-	4	20	127	10310	4560	
91-54	10343	98.00	100.00	2.00	-	-	2	-	-	1.0	30	5	68	-	6	22	87	9480	15870	
91-54	10344	100.00	102.00	2.00	-	-	1	-	-	0.7	20	5	59	-	5	21	148	8420	6430	

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-54	10345	102.00	104.00	2.00	-	-	2	-	-	0.8	27	5	55	-	6	30	235	11320	5110
91-54	10346	104.00	106.00	2.00	-	-	1	-	-	0.8	24	8	69	-	7	38	181	12280	5660
91-54	10347	106.00	108.00	2.00	-	-	3	-	-	1.2	25	6	75	-	7	24	100	12560	6990
91-54	10348	108.00	110.00	2.00	-	-	1	-	-	1.1	26	3	68	-	6	29	115	10560	2510
91-54	10349	110.00	112.00	2.00	-	-	1	-	-	1.1	41	6	51	-	11	20	74	15340	1610
91-54	10350	112.00	114.00	2.00	-	-	2	-	-	1.0	42	8	56	-	10	33	97	16530	4000
91-54	10351	114.00	116.00	2.00	-	-	1	-	-	0.9	33	5	66	-	6	26	111	16530	6060
91-54	10352	116.00	118.00	2.00	-	-	1	-	-	1.1	35	6	86	-	7	24	154	16120	2760
91-54	10353	118.00	120.00	2.00	-	-	3	-	-	1.0	27	3	45	-	7	28	102	10260	5370
91-54	10354	120.00	122.00	2.00	-	-	1	-	-	1.7	44	7	52	-	11	52	205	18630	3080
91-54	10355	122.00	124.00	2.00	-	-	1	-	-	0.8	25	2	32	-	8	27	81	9940	6970
91-54	10356	124.00	126.00	2.00	-	-	3	-	-	0.7	26	2	31	-	5	23	85	9890	2750
91-54	10357	126.00	128.00	2.00	-	-	1	-	-	0.7	28	2	14	-	6	25	106	10820	4800
91-54	10358	128.00	130.00	2.00	-	-	2	-	-	0.8	25	3	56	-	5	20	109	12800	4060
91-54	10359	130.00	132.00	2.00	-	-	1	-	-	0.7	32	4	333	-	6	75	114	13560	3770
91-54	10360	132.00	134.00	2.00	-	-	3	-	-	0.5	23	3	75	-	5	29	116	13720	4780
91-54	10361	134.00	136.00	2.00	-	-	3	-	-	0.5	24	2	71	-	4	25	116	14940	1900
91-54	10362	136.00	138.00	2.00	-	-	2	-	-	0.6	26	4	99	-	5	32	141	17630	2710
91-54	10363	138.00	140.00	2.00	-	-	1	-	-	0.5	42	6	62	-	16	13	111	23240	4590
91-54	10364	140.00	142.00	2.00	-	-	2	-	-	0.4	49	8	49	-	23	10	111	27770	9590
91-54	10365	142.00	144.00	2.00	-	-	1	-	-	0.2	56	7	31	-	26	13	83	26570	8180
91-54	10366	144.00	146.00	2.00	-	-	4	-	-	0.6	56	10	25	-	27	14	71	18440	11180
91-54	10367	146.00	148.00	2.00	-	-	3	-	-	0.7	30	3	38	-	6	26	97	11360	5730
91-54	10368	148.00	150.00	2.00	-	-	1	-	-	0.8	32	4	50	-	6	26	119	14290	4610
91-54	10369	150.00	152.00	2.00	-	-	1	-	-	0.8	34	4	93	-	7	19	156	17730	1320
91-54	10370	152.00	154.00	2.00	-	-	3	-	-	0.7	24	3	78	-	7	22	153	19960	2780
91-54	10371	154.00	156.00	2.00	-	-	2	-	-	0.6	12	3	116	-	4	11	131	23790	1470
91-54	10372	156.00	158.00	2.00	-	-	6	-	-	0.7	29	4	51	-	6	22	124	16320	4800
91-54	10373	158.00	160.00	2.00	-	-	4	-	-	0.6	28	5	33	-	11	9	88	22140	9590
91-54	10374	160.00	162.00	2.00	-	-	2	-	-	0.1	72	10	12	-	22	10	60	39120	14880
91-54	10375	162.00	164.00	2.00	-	-	2	-	-	0.1	154	21	7	-	38	1	78	82070	14830
91-54	10376	164.00	166.00	2.00	-	-	2	-	-	0.1	54	8	9	-	13	12	82	46720	11530
91-54	10377	166.00	168.00	2.00	-	-	5	-	-	0.4	30	4	9	-	5	16	59	19280	6010
91-54	10378	168.00	169.00	1.00	-	-	1	-	-	0.2	29	6	21	-	10	6	80	31080	7690
91-54	10379	169.00	170.00	1.00	-	-	2	-	-	0.1	50	28	17	-	53	1	105	54530	7560
91-54	10380	170.00	172.00	2.00	-	-	1	-	-	0.1	51	23	19	-	40	1	164	55320	9260
91-54	10381	172.00	174.00	2.00	-	-	1	-	-	0.1	51	26	43	-	50	1	135	56180	8770
91-54	10382	174.00	176.00	2.00	-	-	4	-	-	0.2	51	17	103	-	37	8	112	38040	9330
91-54	10383	176.00	177.20	1.20	-	-	3	-	-	0.7	37	6	22	-	14	12	39	13100	12080
91-54	10384	177.20	179.00	1.80	-	-	1	-	-	1.1	17	4	136	-	6	24	173	21190	12720
91-54	10385	179.00	181.00	2.00	-	-	2	-	-	1.2	29	7	134	-	7	93	231	29220	7500
91-54	10386	181.00	182.10	1.10	-	-	3	-	-	1.8	25	7	122	-	14	65	336	30370	15590
91-54	10387	182.10	183.00	0.90	-	-	6	-	-	1.3	24	5	131	-	11	31	161	20500	20040
91-54	10388	183.00	185.00	2.00	-	-	4	-	-	1.2	61	9	52	-	24	13	84	22270	12210
91-54	10389	185.00	186.30	1.30	-	-	2	-	-	0.6	48	10	61	-	30	7	81	24070	20650
91-54	10390	186.30	188.00	1.70	-	-	1	-	-	0.5	20	5	112	-	8	11	78	21480	11640
91-54	10391	188.00	189.50	1.50	-	-	1	-	-	0.4	20	5	155	-	2	12	74	18160	1670
91-54	10392	189.50	191.00	1.50	-	-	2	-	-	0.4	21	2	33	-	3	12	61	8520	8160
91-54	10393	191.00	191.80	0.80	-	-	1	-	-	0.7	22	9	60	-	9	13	101	8590	10940
91-54	10394	191.80	193.20	1.40	0.01	0.001	-	-	-	1.8	30	13	209	300	14	25	151	12940	14780
91-54	10395	193.20	194.00	0.80	0.01	0.001	-	-	-	1.8	27	13	101	510	15	16	233	12110	18690

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-54	10396	194.00	194.40	0.40	0.01	0.001	-	-	-	2.3	194	38	84	820	21	43	358	27230	22910
91-54	10397	194.40	196.80	2.40	-	-	3	-	-	0.4	92	10	74	-	10	18	91	19670	15380
91-54	10398	196.80	198.00	1.20	-	-	1	-	-	0.1	18	4	115	-	20	6	88	46140	13500
91-54	10399	198.00	200.00	2.00	-	-	2	-	-	0.1	6	3	132	-	23	8	85	50380	16950
91-54	10400	200.00	202.00	2.00	-	-	2	-	-	0.1	8	1	106	-	11	9	100	55450	20890
91-54	10401	202.00	204.00	2.00	-	-	1	-	-	0.1	10	1	260	-	14	10	108	52290	24380
91-54	10402	204.00	206.00	2.00	-	-	4	-	-	0.1	15	3	416	-	16	11	88	51510	22940
91-54	10403	206.00	208.00	2.00	-	-	1	-	-	0.1	11	2	133	-	6	6	100	49860	18960
91-54	10404	208.00	210.00	2.00	-	-	2	-	-	0.1	9	1	508	-	5	7	108	54660	24190
91-54	10405	210.00	212.00	2.00	-	-	1	-	-	0.1	372	4	303	-	4	8	95	53170	24410
91-54	10406	212.00	213.40	1.40	-	-	1	-	-	0.1	26	2	162	-	4	11	93	51850	24290

COMP: COPELAND, REBAGLIATI & ASSOC.

PROJ: 9101

ATTN: M.REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ11+12

DATE: 91/10/17

\* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
10290	56.8	11200	244	4	136	2.7	1	5180	11.3	20	1813	46940	5590	1	1440	202	136	4470	300	1110	44	124	12	1	35	72.8	1960	1	1	160	63	2020	
10291	5.4	10390	468	1	103	2.8	1	1830	11.9	9	121	34010	5390	1	880	111	20	910	58	330	16	117	6	1	33	71.0	830	1	1	13	45	1920	
10292	2.1	12310	545	1	130	2.9	1	3530	10.5	12	115	44630	6230	1	1040	151	22	410	57	810	16	134	8	1	36	82.9	816	1	1	11	55	2340	
10293	18.9	11680	208	1	231	2.6	1	4580	7.6	10	242	29420	6000	1	1560	137	53	1090	132	900	16	93	9	1	34	85.2	955	1	1	29	42	1400	
10294	1.3	11820	373	1	118	2.7	1	3650	2.4	9	91	30320	6050	1	1280	124	27	1130	71	490	22	102	8	1	38	85.7	519	1	1	4	56	1670	
10295	.5	2180	26	1	31	.9	2	1160	.1	1	5	8190	1080	1	410	124	2	590	1	10	19	5	3	3	33	.7	105	3	1	6	135	3	
10296	.5	2140	21	1	26	.8	2	1880	.1	1	11	7430	970	1	450	97	8	690	1	10	18	2	4	2	31	.8	77	3	1	7	160	1	
10297	.6	1830	21	1	31	1.1	2	7440	.1	1	4	8620	1150	1	590	208	2	530	1	20	22	2	10	2	25	.7	114	2	1	6	131	2	
10298	.5	2620	31	2	56	1.7	1	5240	.1	1	5	8140	2080	1	830	192	4	330	1	10	27	9	10	3	17	.8	123	2	1	4	86	1	
10299	.5	2960	48	11	44	.8	1	5420	.1	1	5	6170	1780	2	480	195	8	540	2	10	27	9	8	2	33	1.3	97	1	1	6	160	2	
10300	.8	5240	62	9	343	2.0	1	4310	.1	1	3	6810	3260	1	730	117	3	220	1	10	18	9	5	3	35	1.0	75	3	1	4	83	1	
10301	.9	9950	26	7	154	4.0	2	9710	.1	1	3	5320	6100	3	1030	119	3	100	1	20	23	7	7	3	55	1.2	115	4	1	3	61	1	
10302	.9	9700	23	6	143	3.5	2	8050	.1	1	3	5560	5790	2	1310	108	2	80	1	20	21	6	8	2	54	1.2	100	3	1	3	58	3	
10303	.7	6720	16	5	80	2.1	2	6490	.1	1	4	9890	3630	2	1980	215	5	440	1	10	23	4	18	3	56	1.2	110	3	1	5	103	1	
10304	.7	4880	15	3	61	1.2	2	8020	.1	1	4	9330	2850	1	2440	198	3	430	1	10	21	6	26	3	43	1.2	98	3	1	4	92	4	
10305	.6	6560	42	3	124	2.1	2	4120	.1	2	5	13670	3730	1	2290	163	5	500	1	10	24	5	9	3	54	1.1	98	4	1	5	111	1	
10306	.5	2340	39	1	79	.5	2	4240	.1	1	4	8400	1090	1	700	78	5	770	1	10	16	4	9	2	36	1.1	60	2	1	5	127	1	
10307	.7	2590	60	1	34	.6	2	6610	.1	2	19	14340	1200	1	950	137	11	960	1	10	21	5	15	1	33	1.1	55	1	1	7	166	2	
10308	1.0	2550	54	1	130	.7	1	18710	.1	2	6	16920	1080	1	2890	508	4	630	1	20	19	4	64	1	31	1.9	94	2	1	5	116	1	
10309	.9	5540	18	2	73	1.7	2	7770	.1	1	7	8610	3140	2	1190	195	3	400	1	20	46	5	21	2	43	1.2	113	3	1	4	105	2	
10310	.6	5580	30	3	64	1.8	1	6240	.1	2	4	12240	3330	1	1530	223	2	310	1	20	24	3	15	2	35	.9	109	3	1	4	87	1	
10311	.9	8650	25	3	93	3.0	2	9590	.1	2	6	13320	5420	2	2530	303	2	120	1	20	30	5	21	4	54	1.3	167	4	1	3	58	1	
10312	.9	6960	15	1	71	2.2	2	10900	.1	1	4	8950	4200	2	2130	320	1	240	1	20	21	4	21	3	52	1.3	123	3	1	3	70	3	
10313	.6	8560	15	2	100	2.0	3	3270	.1	1	4	10870	4350	4	2490	158	2	430	1	10	24	4	7	3	66	1.0	101	3	1	5	95	1	
10314	.8	6990	14	3	71	1.9	3	7750	.1	1	6	10120	4050	2	2080	230	4	420	1	10	28	3	17	3	56	1.4	128	3	1	5	102	2	
10315	.9	2700	27	1	30	.6	3	8300	.1	1	8	7370	1070	1	1720	212	7	880	3	20	28	5	18	4	54	1.4	112	3	1	7	169	1	
10316	.7	3070	19	1	34	.8	2	7780	.1	1	6	8850	1610	1	2730	214	4	630	1	20	19	4	24	2	39	1.5	97	3	1	6	134	2	
10317	.6	4890	27	1	411	1.9	3	5730	.1	1	5	9820	2930	3	2540	217	4	420	1	20	24	4	14	2	55	1.1	149	4	1	4	103	4	
10318	.6	5200	20	1	49	1.6	2	2470	.1	2	6	12820	2090	3	3160	183	3	480	1	10	27	4	8	3	69	1.2	134	5	1	4	93	1	
10319	.8	3040	18	1	26	.7	3	6980	.1	1	4	7320	1130	2	1750	184	6	600	1	10	21	3	12	2	61	1.8	80	4	1	6	145	2	
10320	.9	4470	18	1	42	1.7	2	10760	.1	1	5	11270	2210	2	2710	320	2	280	1	10	25	4	24	2	41	1.5	144	4	1	4	83	1	
10321	.7	7770	16	1	73	3.1	2	4730	.1	1	6	10850	4040	3	3010	186	1	280	1	10	30	5	9	2	49	1.4	108	5	1	4	94	3	
10322	.8	3580	22	1	32	1.3	2	4210	.1	1	4	6280	1700	1	1370	108	4	660	1	10	21	4	6	2	56	1.3	94	3	1	7	157	1	
10323	.8	4860	26	1	46	1.7	2	3300	.1	2	5	12970	2140	1	2780	186	1	650	1	10	31	5	6	4	66	1.1	95	4	1	6	133	2	
10324	.9	5620	27	1	36	1.5	2	4430	.1	2	6	10520	2070	2	3060	171	4	820	1	20	32	7	8	4	58	1.5	148	5	1	6	145	1	
10325	.8	4670	19	1	35	1.3	2	4370	.1	2	3	11590	1660	2	2960	185	2	660	1	20	17	4	9	4	67	1.4	74	5	1	6	139	2	
10326	.7	4650	29	1	46	1.5	2	6520	.1	1	4	9050	2410	1	2940	145	3	530	1	20	21	6	13	1	56	1.2	79	4	1	6	133	1	
10327	.7	3970	23	1	57	2.0	2	3780	.1	1	4	8370	2260	1	2250	96	2	430	1	10	17	5	8	1	50	1.1	99	4	1	6	128	2	
10328	.8	4440	15	1	39	2.5	2	7920	.1	1	4	8190	2540	1	3270	112	3	410	1	10	26	4	18	2	42	1.6	93	4	1	5	119	1	
10329	.7	7510	16	7	56	3.1	2	6750	.1	1	4	7000	3710	4	2670	88	1	280	1	20	21	3	11	1	48	.9	116	4	1	3	61	1	
10330	.5	1890	19	2	9	.4	1	6290	.1	1	3	5300	490	1	2030	85	6	770	2	10	15	1	11	1	19	1.1	70	2	1	6	137	2	
10331	.5	2960	33	1	33	1.3	2	7590	.1	1	4	9070	1520	1	3860	121	3	490	1	20	19	5	16	1	21	1.2	141	4	1	4	90	1	
10332	.6	7460	22	1	47	2.3	3	6010	.1	2	5	10990	2810	4	5640	123	5	520	1	20	20	2	13	1	45	1.8	123	5	1	6	118	3	
10333	.6	5250	20	1	29	1.4	2	8400	.1	1	5	8290	1510	3	4160	111	4	1030	1	20	21	1	13	1	38	1.8	81	4	1	5	128	1	
10334	.8	4610	17	1	21	1.3	2	11270	.1	1	6	7610	1360	3	4780	132	7	620	2	30	20	1	20	1	38	1.9	96	4	1	6	149	2	
10335	.8	8870	20	1	47	2.1	3	4630	.1	2	6	9580	2800	6	6870	111	4	370	1	20	27	3	11	1	41	1.6	124	6	1	5	103	1	
10336	.7	11240	23	1	72	2.8	2	4640	.1	2	6	10620	3650	8	10200	128	5	230	3	60	28	2	10	1	45	3.4	114	6	1	5	96	2	
10337	1.1	8190	43	1	54	1.5	2	14720	.1	11	15	11300	3060	4	6440	154	4	1580	14	120	25	6	24	1	80	33.8	69	5	1	6	118	1	
10338	.9	9780	37	1	51	1.9	3</																										

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ13+14  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
10346	.8	8920	24	1	69	2.5	3	5660	.1	2	7	12280	4740	3	12990	124	6	100	2	40	38	8	19	1	46	3.0	181	5	2	3	54	1	
10347	1.2	11950	25	1	75	2.9	3	6990	.1	3	7	12560	4560	8	14720	182	3	160	1	40	24	6	29	1	46	3.9	100	5	1	3	61	3	
10348	1.1	13240	26	1	68	2.4	3	2510	.1	2	6	10560	3500	12	12540	104	6	300	1	40	29	3	9	1	43	2.3	115	6	1	5	106	1	
10349	1.1	11940	41	1	51	2.4	2	1610	.1	8	11	15340	2830	12	10950	98	3	290	10	50	20	6	8	1	61	14.5	74	6	1	3	53	1	
10350	1.0	13770	42	1	56	2.3	3	4000	.1	7	10	16530	3460	12	12910	110	5	560	8	70	33	8	13	1	88	13.2	97	7	1	5	89	2	
10351	.9	18370	33	1	66	3.0	3	6060	.1	4	6	16530	4350	18	19990	142	3	240	1	40	26	5	24	2	58	7.1	111	6	2	3	54	1	
10352	1.1	18540	35	1	86	4.8	3	2760	.1	4	7	16120	5460	17	17580	100	5	130	2	70	24	6	11	4	61	5.7	154	7	2	3	35	1	
10353	1.0	11830	27	1	45	2.0	3	5370	.1	3	7	10260	2780	11	15340	119	5	420	4	30	28	3	17	1	49	7.5	102	6	1	5	93	3	
10354	1.7	17890	44	1	52	2.7	4	3080	.1	7	11	18630	3240	21	20330	126	8	260	6	50	52	7	11	1	67	16.9	205	6	2	4	75	1	
10355	.8	7950	25	1	32	1.6	2	6970	.1	2	8	9940	2050	7	10630	118	7	490	1	30	27	2	24	1	35	3.2	81	6	1	5	116	1	
10356	.7	9210	26	1	31	1.4	3	2750	.1	2	5	9890	1680	9	9980	73	7	560	1	40	23	2	9	1	41	2.1	85	7	1	6	116	3	
10357	.7	8680	28	1	14	.9	2	4800	.1	2	6	10820	720	9	10900	90	7	1000	2	30	25	2	14	1	35	2.0	106	7	1	6	130	1	
10358	.8	14880	25	1	56	3.5	4	4060	.1	2	5	12800	3290	15	14890	83	5	280	1	40	20	3	10	1	38	2.3	109	8	1	4	71	2	
10359	.7	17150	32	11	333	3.0	3	3770	.1	2	6	13560	2940	21	19940	94	2	160	1	50	75	4	11	4	39	2.6	114	6	1	4	79	1	
10360	.5	19470	23	7	75	3.4	3	4780	.1	2	5	13720	4220	19	20600	87	2	140	1	30	29	3	10	4	51	2.7	116	5	1	3	58	3	
10361	.5	20520	24	5	71	2.8	3	1900	.1	2	4	14940	2970	22	24250	90	2	200	1	40	25	2	6	3	50	3.0	116	6	1	4	75	3	
10362	.6	27340	26	6	99	4.5	3	2710	.1	2	5	17630	5460	29	28730	103	2	150	1	30	32	4	8	4	71	3.7	141	5	1	3	75	2	
10363	.5	23710	42	4	62	2.9	3	4590	.1	13	16	23240	3490	29	27480	116	1	260	15	270	13	6	12	1	62	66.5	111	4	1	5	99	1	
10364	.4	26010	49	5	49	2.6	3	9590	.1	21	23	27770	3250	37	31440	212	1	340	29	520	10	8	32	1	59	146.2	111	3	1	7	138	2	
10365	.2	21290	56	3	31	2.5	2	8180	.1	22	26	26570	1810	41	23770	121	1	500	34	430	13	7	26	1	58	145.1	83	4	1	7	143	1	
10366	.6	12030	56	1	25	1.7	2	11180	.1	18	27	18440	1610	23	14200	102	3	500	28	360	14	10	34	1	50	78.3	71	5	1	7	137	4	
10367	.7	10760	30	1	38	1.7	3	5730	.1	2	6	11360	2460	13	10370	55	9	220	1	50	26	3	18	3	41	3.9	97	5	1	4	83	3	
10368	.8	14980	32	1	50	2.8	3	4610	.1	2	6	14290	3030	16	16000	73	12	260	1	50	26	4	11	3	59	3.1	119	6	1	6	121	1	
10369	.8	22630	34	2	93	4.2	3	1320	.1	3	7	17730	4870	24	22730	67	8	120	1	80	19	4	7	6	79	4.7	156	6	1	3	71	1	
10370	.7	27780	24	3	78	4.4	3	2780	.1	3	7	19960	4220	38	33060	92	2	150	1	50	22	3	9	4	55	3.4	153	3	1	3	75	3	
10371	.6	33700	12	5	116	5.3	3	1470	.1	3	4	23790	4270	52	42390	97	1	160	1	50	11	3	9	2	54	3.8	131	1	2	2	56	2	
10372	.7	20270	29	1	51	2.6	3	4800	.1	2	6	16320	2520	28	25760	77	5	390	1	50	22	4	9	3	47	3.1	124	5	1	5	125	6	
10373	.6	24050	28	1	33	2.3	3	9590	.1	8	11	22140	1490	34	34320	105	1	360	6	160	9	5	18	1	54	43.4	88	4	1	4	100	4	
10374	.1	16570	72	1	12	1.3	3	14880	.1	23	22	39120	370	21	22590	115	8	700	32	580	10	10	22	1	162	175.0	60	4	1	11	229	2	
10375	.1	25790	154	4	7	1.5	1	14830	.1	32	38	82070	260	37	37490	127	11	470	26	790	1	21	23	1	144	244.0	78	1	1	9	198	2	
10376	.1	19200	54	1	9	1.6	3	11530	.1	11	13	46720	210	24	26760	94	14	1160	4	190	12	8	20	1	78	55.1	82	3	1	6	138	2	
10377	.4	11490	30	1	9	1.1	2	6010	.1	3	5	19280	230	14	14910	56	4	680	1	70	16	4	8	1	39	12.2	59	6	1	7	150	5	
10378	.2	21290	29	1	21	1.6	2	7690	.1	10	10	31080	860	29	28240	114	6	540	8	210	6	6	12	1	50	59.0	80	5	1	7	160	1	
10379	.1	32970	50	3	17	1.9	3	7560	.1	41	53	54530	800	49	46370	226	1	520	55	1020	1	28	18	1	145	294.4	105	1	1	11	244	2	
10380	.1	33550	51	4	19	2.0	2	9260	.1	39	40	55320	900	55	48840	224	1	510	48	1040	1	23	26	1	149	305.3	164	1	1	11	249	1	
10381	.1	34870	51	5	43	1.9	2	8770	.1	44	50	56180	1210	57	49970	213	1	480	54	1090	1	26	22	1	153	316.1	135	1	1	11	251	1	
10382	.2	27870	51	3	103	2.5	2	9330	.1	32	37	38040	2580	40	37330	159	1	380	41	760	8	17	20	1	93	219.1	112	1	1	9	197	4	
10383	.7	4560	37	1	22	.7	1	12080	.1	11	14	13100	770	4	7780	74	4	540	19	260	12	6	21	1	53	42.8	39	3	1	8	173	3	
10384	1.1	30820	17	4	136	4.5	3	12720	.1	3	6	21190	6220	36	34710	101	1	110	1	60	24	4	25	4	55	10.4	173	4	2	2	54	1	
10385	1.2	35180	29	7	134	5.0	2	7500	.1	4	7	29220	7240	44	36510	100	1	80	1	80	93	7	16	3	58	5.0	231	1	2	1	33	2	
10386	1.8	32390	25	4	122	4.6	3	15590	.1	4	14	30370	6280	43	36700	210	1	60	1	90	65	7	34	3	64	7.4	336	1	1	1	26	3	
10387	1.3	21070	24	1	131	3.0	5																										

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

MIN-EN LABS — ICP REPORT  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ15+16  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
10402	.1	23050	15	4	416	1.2	4	22940	.1	13	16	51510	3370	18	18480	996	1	230	1	2240	11	3	36	1	302	44.7	88	1	1	2	26	4	
10403	.1	23140	11	4	133	1.4	3	18960	.1	13	6	49860	3620	15	16920	811	1	250	1	2300	6	2	35	1	285	39.3	100	1	1	2	30	1	
10404	.1	26290	9	5	508	1.3	3	24190	.1	12	5	54660	3410	19	18470	1133	1	200	1	2270	7	1	39	1	221	41.5	108	1	1	2	35	2	
10405	.1	17110	372	6	303	1.5	2	24410	.1	12	4	53170	4200	10	18640	1017	1	140	1	2090	8	4	39	1	206	30.0	95	1	1	2	30	1	
10406	.1	12900	26	7	162	1.4	2	24290	.1	11	4	51850	5020	8	18370	1192	1	130	1	2330	11	2	57	1	212	26.7	93	1	1	2	28	1	
10407	.4	6720	168	1	187	2.3	2	1400	.1	2	9	22080	3530	1	1080	21	23	440	6	50	28	25	3	4	28	2.4	152	1	1	2	44	38	
10408	.4	4180	339	1	69	2.1	1	1710	.1	3	8	26130	2380	1	830	24	28	30	5	30	18	33	4	3	15	1.5	185	1	1	2	46	72	
10409	.3	6110	240	1	98	1.7	2	2250	.1	2	9	19070	3260	1	1320	34	21	490	12	40	22	32	6	2	27	3.1	230	1	1	4	79	50	
10410	.1	6090	332	1	87	1.8	1	1710	.1	3	8	27510	3160	1	1120	41	41	400	7	20	27	34	4	3	28	2.4	293	1	1	2	53	95	
10411	.1	7640	251	1	99	1.3	2	2550	.1	3	9	24120	4060	2	1150	65	33	1210	10	30	31	30	5	3	33	4.6	218	1	1	4	101	36	
10412	.2	8920	406	1	109	2.1	2	1690	.1	3	9	30210	4570	2	1330	52	59	490	6	40	23	39	5	5	34	3.8	159	1	1	3	52	60	
10413	.3	10340	356	1	125	1.6	1	1230	.1	2	10	15850	5300	2	1300	50	79	470	10	70	23	37	5	6	40	6.1	172	2	1	3	34	33	
10414	.1	10360	307	1	122	2.0	1	1550	.1	4	20	24150	5320	2	1310	70	230	910	44	60	27	90	5	9	24	11.3	214	1	1	2	19	1720	
10415	.1	11090	608	1	123	1.9	1	1550	.1	5	21	23960	5630	3	1430	45	173	1170	150	80	26	97	5	7	31	17.2	227	1	1	4	33	1500	
10416	.1	9480	865	1	115	2.1	1	2680	.1	15	53	48310	4940	3	1370	131	61	1950	213	310	20	152	6	3	37	30.0	292	1	1	3	21	2700	
10417	.1	14530	365	1	156	2.3	1	3770	.1	12	74	37260	7370	3	1770	142	49	1320	103	890	22	126	7	1	40	63.8	454	1	1	3	31	2300	
10418	.1	9350	246	1	136	1.9	1	2710	2.5	5	44	19850	4920	3	1280	94	29	1120	69	380	20	72	5	1	28	37.7	562	1	1	3	47	1720	
10419	.4	12030	350	1	148	2.5	1	2460	6.6	10	80	36210	6170	1	1380	141	31	1960	81	460	35	99	6	1	35	78.5	987	1	1	3	35	2280	
10420	.5	11840	322	1	125	2.5	1	5150	6.9	11	96	36160	5880	2	2110	181	41	2420	100	700	34	109	14	1	43	89.8	1062	1	1	3	25	2150	
10421	.3	13590	448	1	127	2.8	1	3080	8.9	16	125	49370	6840	1	1510	168	33	1160	79	610	26	155	7	1	37	104.7	1270	1	1	3	24	2850	
10422	.1	12450	473	1	123	2.5	1	2660	.6	13	91	52150	6370	1	1310	145	26	1380	54	490	25	125	6	1	35	54.9	678	1	1	2	26	2300	
10423	.3	5270	330	1	62	1.9	1	2610	8.8	9	83	31200	2950	1	580	137	54	1090	125	460	27	97	5	1	13	36.3	1000	1	1	2	37	1570	
10424	.3	5540	303	1	65	2.0	1	2790	10.5	11	85	38190	3070	1	540	160	58	1130	113	570	23	105	5	1	17	39.2	1040	1	1	1	20	1800	
10425	.1	5970	736	1	76	1.8	1	1910	.1	5	33	32150	3390	1	700	93	46	840	38	220	23	52	5	2	15	16.0	510	1	1	2	50	1250	
10426	.1	4470	377	1	62	1.2	1	3900	.1	2	8	15700	2500	1	1380	117	10	450	12	30	17	22	17	2	16	2.0	147	1	1	3	80	755	
10427	.1	4940	1033	1	70	1.7	1	1890	.1	5	11	57560	2980	1	770	117	59	30	1	60	24	23	6	4	14	.1	94	1	1	2	40	1120	
10428	.4	5870	127	1	87	1.3	1	11910	7.3	8	71	29600	3390	1	780	351	50	1410	92	550	20	64	42	1	17	35.4	725	1	1	2	37	1600	
10429	.7	2920	123	1	45	1.2	1	23110	10.2	9	67	29920	1850	1	930	1022	50	1060	93	1000	16	67	29	1	10	23.8	849	1	1	1	13	1780	
10430	.8	3900	137	1	55	1.2	1	24740	10.4	9	77	31620	2400	1	960	896	56	1200	97	1020	16	72	32	1	12	32.4	909	1	1	1	23	2000	
10431	.5	3080	133	1	58	1.6	1	11010	8.7	9	69	29870	2010	1	870	338	44	1660	89	690	23	61	20	1	11	20.2	818	1	1	1	17	1760	
10432	.7	4200	128	1	83	1.3	1	24640	7.5	8	63	29580	2650	1	890	887	45	1390	87	670	21	56	31	1	14	25.4	691	1	1	1	26	1640	
10433	.8	5190	127	1	82	1.5	1	25970	8.4	11	69	34650	3160	1	950	766	49	1130	94	910	15	64	32	1	20	34.8	800	1	1	2	29	1920	
10434	.5	3910	124	1	103	1.8	1	16590	6.1	9	67	30810	2480	1	780	370	50	3110	93	570	23	63	19	1	16	26.4	614	1	1	1	23	1600	
10435	.1	3570	170	1	60	1.3	1	18610	1.1	22	61	44520	2330	1	770	502	25	980	67	940	12	54	22	1	17	19.9	389	1	1	2	30	1340	
10436	.4	2480	91	1	48	1.0	1	14800	3.5	5	33	17490	1670	1	520	250	29	1220	55	570	15	33	16	1	13	13.5	413	1	1	2	52	1265	
10437	.2	3370	234	1	112	1.3	1	20950	.1	3	9	34170	2530	1	790	392	22	30	1	60	24	12	27	5	14	1.0	168	1	1	1	21	1535	
10438	.1	4540	265	1	143	1.7	1	6800	.1	4	13	39260	3250	1	790	162	33	580	22	60	29	26	9	3	21	.8	157	1	1	2	40	1200	
10439	.3	4810	147	1	96	1.5	1	8130	2.8	6	35	30180	3000	1	830	174	38	1750	49	440	25	37	9	1	27	16.2	509	1	1	2	58	1185	
10440	.4	3830	114	1	70	1.4	1	19420	4.0	6	46	23370	2370	1	770	378	42	2280	76	640	20	47	21	1	20	25.4	436	1	1	2	48	1180	
10441	.4	3150	115	1	85	1.3	1	11250	6.1	6	101	22740	1940	1	1430	293	29	1650	90	470	23	47	14	1	14	18.2	597	1	1	2	50	1030	
10442	.6	7280	56	1	102	2.9	1	10490	.1	1	7	10810	2970	6	5790	251	3	70	1	50	24	9	20	8	14	1.5	159	2	1	2	29	295	
10443	.5	8570	54	1	71	3.2	1	5970	.1	2	8	12640	2430	10	8570	193	3	50	1	60	23	11	18	6	10	2.2	193	3	1	1	22	310	
10444	.7	2720	111	1	225	1.3	1	10310	6.2	5	38	17670	1470	1	4420	274	14	1120	48	230	13	44	22	1	12	17.4	472	1	1	2	46	870	
10445	.4	2710	115	1	86	1.0	1	5970	7.0	6	48	23450	1670	1	1610	147	20	970	46	430	18	50	13	1	14	14.5	654	1	1	4	102	970	
10446	2.6	7870	475	1	90	2.3	1	3690	.1	10	47	41440	4000	1	1110	155	17	1390	31	620	15	109	8	1	22	25.1	380	1	1	2	42	1350	
10447	.9	8930	1304	1	94	1.7	1	3400	12.8	8	58	30740	4560	1	740	103	21	2610	51	780	20	133	7	1	30	57.1	966	1	1	2	38	1200	
10448	.2	6980	842	1	143	1.2	1	2650	1.3	7	47	28140	3610	1	610	96	15	2520	36	550	18	110	7	1	25	32.9	330	1	1	5	120	12	





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 3178 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Assay Certificate

1S-0124-RA4

Company: COPELAND REBAGLIATI & ASSOC.  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-18-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify* the following Assay of 23 ROCK samples  
 submitted JUL-15-91 by RICHARD HASLINGER.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton
10394	.01	.001
10395	.01	.001
10396	.01	.001

Certified by *Mark Rebagliati*

MIN-EN LABORATORIES



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 FAX (604) 847-3005

*Geochemical Analysis Certificate*

1S-0124-RG4

Company: **COPELAND REBAGLIATI & ASSOC.**  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-18-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify the following Geochemical Analysis of 23 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.*

Sample Number	AG PPM
10294	1.8
10295	1.8
10296	2.3

Certified by

MIN-EN LABORATORIES

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-55  
 SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 1048/9 CLAIM # : SIB 12, 33, 35  
 LOCAL GRID : 8861.60 N / 9704.27 E GLOBAL GRID : 13250.58 N / 17748.62 E  
 LENGTH : 83.80 m INCLINATION : -66 degrees ELEVATION : 985.69 metres  
 OVERBURDEN : 4.57 m CASING : 4.57 metres AZIMUTH : 113.5 degrees  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/11 DATE DRILLED : 1991/07/09 CORE LOCATION: 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 10001-10113

## SUMMARY LOG

91-55

From(m)	To(m)	Field Name (Legend)
0.00	4.57	CASING
4.57	12.70	BLACK CHERT - CHERT BRECCIA (3.3) +/- GREEN-BLACK RHYOLITIC FLOW (3.2)
12.70	15.00	TUFFACEOUS RHYOLITE -SERICITE -PYRITE (3.9 a, Py)
15.00	29.00	SULPHIDIC MUDSTONE AND CHERT (3.5), TURBIDITIC MUDSTONE (3.6)
29.00	30.00	BLACK CHERT - CHERT BRECCIA -PYRITE (3.3P)
30.00	42.00	SULPHIDIC MUDSTONE AND CHERT (3.5), BLACK CHERT - CHERT BRECCIA (3.3)
42.00	44.00	BLACK CHERT - CHERT BRECCIA -PYRITE (3.3Py)
44.00	71.70	SULPHIDIC MUDSTONE AND CHERT (3.5), TURBIDITIC MUDSTONE (3.6)
71.70	80.00	BLACK CHERT AND CHERT BRECCIA (3.3)
80.00	83.80	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
83.80		END OF HOLE.

## ANALYTICAL HIGHLIGHTS

91-55

From(m)	To(m)	Length(m)	Au g/t	Au Oz/ton	Ag g/t	Ag Oz/ton	% Pb	% Zn
25.00	26.00	1.00	0.44	0.013	2.2	0.06		
46.00	63.00	17.00	2.19	0.064	5.9	0.17		
69.00	72.37	3.37	0.83	0.024	57.7	1.68		

From(m)	To(m)	Description
0.00	4.57	CASING
4.57	12.70	BLACK CHERT - CHERT BRECCIA (3.3) +/- GREEN-BLACK RHYOLITIC FLOW (3.2)

## Lithology

-Medium to dark grey, greyish black toward lower contact; 50% fragments (felsic to intermediate lapilli tuff) and 50 dark grey matrix. Poorly developed, weak foliation with core axis angles from 50 - 55 degrees. Textured relationships indicate that the rock has been (at least) partially recrystallized. But this may be due to the % of argillaceous and chloritic material in the matrix.  
 -Weak chloritic and albitic alteration, lower rock contact @ 45 degrees to c/a.  
 -Trace to 0.25% pyrite from 4.6 to 10.0 metres, and 2% pyrite from 10.0 to 12.7 metres.

12.70	15.00	TUFFACEOUS RHYOLITE -SERICITE -PYRITE (3.9 a, Py)
15.00	29.00	SULPHIDIC MUDSTONE AND CHERT (3.5), TURBIDITIC MUDSTONE (3.6)
29.00	30.00	BLACK CHERT - CHERT BRECCIA -PYRITE (3.3P)
30.00	42.00	SULPHIDIC MUDSTONE AND CHERT (3.5), BLACK CHERT - CHERT BRECCIA (3.3)
42.00	44.00	BLACK CHERT - CHERT BRECCIA -PYRITE (3.3Py)
44.00	71.70	SULPHIDIC MUDSTONE AND CHERT (3.5), TURBIDITIC MUDSTONE (3.6)

## Lithology

-Black rock, some sections very dark. Banded, laminated, rhythmic bedding - but all these structures are distorted in various ways from tectonism. Some sections are carbonaceous (graphitic) especially in fault zones. Pyrite enrichment and some calcareous veining present, perhaps due to epigenetic alteration.

## Sub-intervals

-26.0 - 29.6 and 41.8 - 44.0 metres: Felsic to intermediate volcanic, foliated, weakly albitized?, sericitized.  
 -Dyke (rock) from 37.4 - 39.1 metres; fine grained, foliated unit, sub-porphyrific, sharp irregular contacts.

## Structure

-Foliation changes common, some intervals sheared.  
 -Fault zones: -45.6 - 49.0 -lost 2.5 metres of core over 2.1 metres. Gouge zone at 45.72 - 45.85m, 48.60 - 48.77m, and from 48.9 - 50.4metres, core is still broken-up.  
 -51.4 - 52.5m -gouge zone with shaly pieces, this fault occurs in a shear zone.  
 -61.1 - 61.7m -"shaly" zone of mudstone pieces, some gouge. Also in shear zone.  
 -67.1 - 69.0 -fractured zone with gouge developed at 67.5, 68.5, and 68.8 metres, also inthe shear zone.  
 -The upper fault contact may be in a large shear zone, that is well developed from 35.0 to 71.7 metres.  
 -Shear zone, non uniform foliation, from 35.0 - 71.7 metres; foliation can vary from 0 to 45 degrees, but the 10 to 20 degree angles are most common. Above and below the "shear" zone; the beds are moderately foliated with small parasitic folds and micro-faults. These features begin at 3 - 5 metres above the upper shear contact; the lower shear contact is abrupt at 30 degrees (oblique to c/a). Felsic volcanics are in "knife edge" contact with the mudstone.

From(m) To(m) -----Description-----

Alteration

-Weak "background" albitic? or siliceous alteration noted, rock is moderately hard.

Mineralization

-Unit has syngenetic (recrystallized) pyrite ranging from 0.5 - 2.0%, concentrated in bands, and hydrothermal pyrite (crystals) in the more "argillaceous matrix". The hydrothermal pyrite constitutes less than 0.15% of the rock.

-Average pyrite for the whole unit is 1%.

71.70 80.00 BLACK CHERT AND CHERT BRECCIA (3.3)  
 80.00 83.80 TUFFACEOUS RHYDLITE -SERICITE (3.9a)

Lithology

-Medium grey with numerous yellow grey patches, some greenish patches.  
 -Fragment sizes and percentage vary considerably over the zone, but averages are from 35 - 50% mixture of clast types, some are moderately altered, some hard and siliceous.

Matrix is hard to describe due to the alteration and weak shearing of the unit.

Alteration

-Weak sericite alteration of matrix, and feldspatic rich clasts moderately sericitized. Weak to very weak albitic or siliceous alteration. (Theununiform alteration has resulted in the concentration of pyrite. Pyrite is on the whole fairly abundant from 71.7 - 81.8m.

Mineralization

-Pyritic zones related to sericite - chlorite alteration, and fresher, lean zones, to albitic alteration.

-Pyritic texture are related to weak shearing and original hydrothermal deposition (emplacement).

-Pyrite from 0.25 - 5% in unit; 10 - 20% is concentrated stringer zones in both very fine grained, in masses and semi-massive in texture. Sometimes it forms masses (replacing) of feldspatic clasts.

Specific

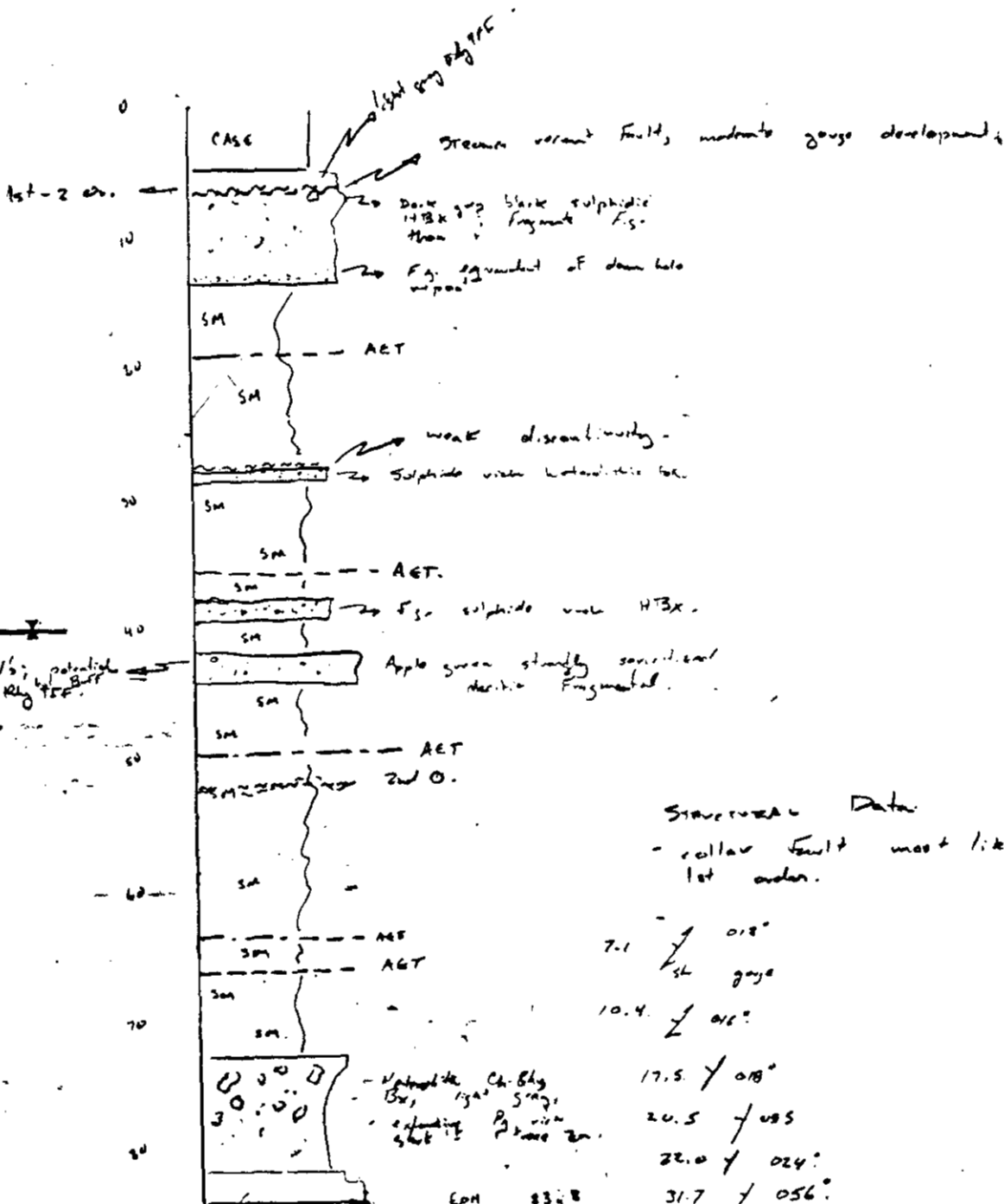
-Percentage pyrite by sample: 71.70 - 72.37m <0.25%  
 72.37 - 73.95m 2 - 3%  
 73.95 - 75.20m <0.5%  
 75.20 - 76.10m 2%  
 76.10 - 77.10m 4%  
 77.10 - 78.20m 2%  
 78.20 - 79.20m 3%  
 79.20 - 80.20m 15%  
 80.20 - 81.80m 1%  
 81.80 - 83.80m <0.25%

79.24 END OF HOLE.

# This Plot

early Simon - column Brealey.

DOM 91-56.



F.C. V6; potential Rhy. T.F.

Structural Data  
- collar fault most likely 1st order.

- 7.1 / 018°
- 10.4 / 016°
- 17.5 / 018°
- 20.5 / 055
- 22.0 / 024°
- 31.7 / 056°
- 36.5 / 031°
- 49.2 / 020°
- 56.1 / 08°
- 57.1 / sh. gypth 05°
- 58.1 / sh. gypth 05° = original?
- 63.3 / 050°
- 70.2 / 080°

light grey heavily pyroclastic dominant  
20.2 / 1st. 055°

DOM 834B

Rhy. Fl. & T.F.

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91-55	10407	4.51	6.00	1.49	-	-	38	-	-	0.4	168	25	187	-	9	28	152	22080	1400	
91-55	10408	6.00	7.50	1.50	-	-	72	-	-	0.4	339	33	69	-	8	18	185	26130	1710	
91-55	10409	7.50	9.00	1.50	-	-	50	-	-	0.3	240	32	98	-	9	22	230	19070	2250	
91-55	10410	9.00	10.50	1.50	-	-	95	-	-	0.1	332	34	87	-	8	27	293	27510	1710	
91-55	10411	10.50	12.00	1.50	-	-	36	-	-	0.1	251	30	99	-	9	31	218	24120	2550	
91-55	10412	12.00	13.50	1.50	-	-	60	-	-	0.2	406	39	109	-	9	23	159	30210	1690	
91-55	10413	13.50	15.00	1.50	-	-	33	-	-	0.3	356	37	125	-	10	23	172	15850	1230	
91-55	10414	15.00	16.00	1.00	0.04	0.001	-	-	-	1.8	307	90	122	1720	20	27	214	24150	1550	
91-55	10415	16.00	17.00	1.00	0.05	0.001	-	-	-	1.7	608	97	123	1500	21	26	227	23960	1550	
91-55	10416	17.00	18.00	1.00	0.03	0.001	-	-	-	2.2	865	152	115	2700	53	20	292	48310	2680	
91-55	10417	18.00	19.00	1.00	0.02	0.001	-	-	-	2.2	365	126	156	2300	74	22	454	37260	3770	
91-55	10418	19.00	20.00	1.00	0.01	0.001	-	-	-	2.5	246	72	136	1720	44	20	562	19850	2710	
91-55	10419	20.00	21.00	1.00	0.04	0.001	-	-	-	2.5	350	99	148	2280	80	35	987	36210	2460	
91-55	10420	21.00	22.00	1.00	0.05	0.001	-	-	-	2.7	322	109	125	2150	96	34	1002	36160	5150	
91-55	10421	22.00	23.00	1.00	0.16	0.005	-	-	-	3.4	448	155	127	2850	125	26	1270	49370	3080	
91-55	10422	23.00	24.00	1.00	0.22	0.006	-	-	-	3.0	473	125	123	2300	91	25	678	52150	2660	
91-55	10423	24.00	25.00	1.00	0.27	0.008	-	-	-	1.8	330	97	62	1570	83	27	1000	31200	2610	
91-55	10424	25.00	26.00	1.00	0.44	0.013	-	-	-	2.2	303	105	65	1800	85	23	1040	38190	2790	
91-55	10425	26.00	27.00	1.00	0.21	0.006	-	-	-	1.6	736	52	76	1250	33	23	510	32150	1910	
91-55	10426	27.00	28.00	1.00	0.13	0.004	-	-	-	1.4	377	22	62	755	8	17	147	15700	3900	
91-55	10427	28.00	28.80	0.80	0.11	0.003	-	-	-	1.7	1033	23	70	1120	11	24	94	57560	1890	
91-55	10428	28.80	30.00	1.20	0.01	0.001	-	-	-	2.2	127	64	87	1600	71	20	725	29600	11910	
91-55	10429	30.00	31.00	1.00	0.02	0.001	-	-	-	3.0	123	67	45	1780	67	16	849	29920	23110	
91-55	10430	31.00	32.00	1.00	0.01	0.001	-	-	-	2.8	137	72	55	2000	77	16	909	31620	24740	
91-55	10431	32.00	33.00	1.00	0.01	0.001	-	-	-	2.2	133	61	58	1760	69	23	818	29870	11010	
91-55	10432	33.00	34.00	1.00	0.01	0.001	-	-	-	2.3	128	56	83	1640	63	21	691	29580	24640	
91-55	10433	34.00	35.00	1.00	0.01	0.001	-	-	-	2.4	127	64	82	1920	69	15	800	34650	25970	
91-55	10434	35.00	36.00	1.00	0.01	0.001	-	-	-	3.2	124	63	103	1600	67	23	614	30810	16590	
91-55	10435	36.00	37.00	1.00	0.01	0.001	-	-	-	2.1	170	54	60	1340	61	12	389	44520	18610	
91-55	10436	37.00	37.44	0.44	0.02	0.001	-	-	-	1.6	91	33	48	1265	33	15	413	17490	14800	
91-55	10437	37.44	38.15	0.71	0.02	0.001	-	-	-	2.1	234	12	112	1535	9	24	168	34170	20950	
91-55	10438	38.15	38.80	0.65	0.01	0.001	-	-	-	1.6	265	26	143	1200	13	29	157	39260	6800	
91-55	10439	38.80	40.00	1.20	0.02	0.001	-	-	-	1.6	147	37	96	1185	35	25	509	30180	8130	
91-55	10440	40.00	41.00	1.00	0.01	0.001	-	-	-	2.5	114	47	70	1180	46	20	436	23370	19420	
91-55	10441	41.00	41.74	0.74	0.01	0.001	-	-	-	1.7	115	47	85	1030	101	23	597	22740	11250	
91-55	10442	41.74	42.74	1.00	0.01	0.001	-	-	-	1.4	56	9	102	295	7	24	159	10810	10490	
91-55	10443	42.74	43.86	1.12	0.02	0.001	-	-	-	1.3	54	11	71	310	8	23	193	12640	5970	
91-55	10444	43.86	45.00	1.14	0.02	0.001	-	-	-	1.7	111	44	225	870	38	13	472	17670	10310	
91-55	10445	45.00	46.00	1.00	0.02	0.001	-	-	-	1.3	115	50	86	970	48	18	654	23450	5970	
91-55	10446	46.00	49.00	3.00	3.77	0.110	-	-	-	3.9	475	109	90	1350	47	15	380	41440	3690	
91-55	10447	49.00	50.00	1.00	2.00	0.058	-	-	-	2.2	1304	133	94	1200	58	20	966	30740	3400	
91-55	10448	50.00	51.00	1.00	1.13	0.033	-	-	-	1.8	842	110	143	1220	47	18	330	28140	2650	
91-55	10449	51.00	52.00	1.00	1.70	0.050	-	-	-	2.5	1195	120	151	1250	58	20	517	27990	2550	
91-55	10450	52.00	53.00	1.00	2.56	0.075	-	-	-	2.5	1559	124	75	1020	59	13	462	33750	1640	
91-55	10451	53.00	54.00	1.00	1.89	0.055	-	-	-	2.9	947	94	55	1200	46	15	549	23430	2740	
91-55	10452	54.00	55.00	1.00	3.88	0.113	-	-	-	4.5	2469	176	121	1420	69	16	642	45480	3840	
91-55	10453	55.00	56.00	1.00	2.72	0.079	-	-	-	7.6	1350	151	100	1395	71	14	860	36210	3970	
91-55	10454	56.00	57.00	1.00	1.50	0.044	-	-	-	9.3	621	94	56	885	47	14	593	20780	1090	
91-55	10455	57.00	58.00	1.00	1.77	0.052	-	25.10	0.73	22.1	649	111	149	665	55	19	388	25050	1230	
91-55	10456	58.00	59.00	1.00	1.45	0.042	-	12.80	0.37	13.0	582	112	47	790	59	15	490	24020	1330	

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-55	10457	59.00	60.00	1.00	1.63	0.048	-	-	-	5.8	560	118	53	1190	63	19	508	28620	1890
91-55	10458	60.00	61.00	1.00	2.03	0.059	-	-	-	4.7	664	137	75	1135	87	24	654	38380	1930
91-55	10459	61.00	62.00	1.00	1.26	0.037	-	-	-	3.9	763	131	72	1250	96	22	786	40540	2560
91-55	10460	62.00	63.00	1.00	0.45	0.013	-	-	-	3.0	655	120	55	1300	89	19	989	34520	2190
91-55	10461	63.00	64.00	1.00	0.07	0.002	-	-	-	3.3	1075	148	63	1515	99	19	931	43490	3600
91-55	10462	64.00	65.00	1.00	0.02	0.001	-	-	-	3.8	686	146	82	1620	98	17	661	38640	2270
91-55	10463	65.00	66.00	1.00	0.03	0.001	-	-	-	3.2	759	141	114	1455	93	20	591	41320	2530
91-55	10464	66.00	67.00	1.00	0.04	0.001	-	-	-	3.6	497	124	114	1355	91	16	672	37270	2710
91-55	10465	67.00	68.00	1.00	0.04	0.001	-	-	-	4.7	429	126	60	1675	100	19	664	40110	2430
91-55	10466	68.00	69.00	1.00	0.05	0.001	-	-	-	3.1	391	113	54	1355	87	14	691	31520	3480
91-55	10467	69.00	70.00	1.00	1.04	0.030	-	109.50	3.19	108.3	390	255	121	1300	65	106	830	21040	4180
91-55	10468	70.00	71.00	1.00	1.13	0.033	-	62.40	1.82	58.7	497	164	48	1125	81	95	618	28130	1380
91-55	10469	71.00	72.37	1.37	0.44	0.013	-	16.50	0.48	15.4	181	94	116	680	38	44	451	20720	4240
91-55	10470	72.37	73.95	1.58	-	-	57	-	-	0.6	621	39	226	-	6	21	173	22350	6100
91-55	10471	73.95	75.20	1.25	-	-	22	-	-	0.4	165	22	210	-	5	16	122	12120	7930
91-55	10472	75.20	76.10	0.90	-	-	18	-	-	0.1	370	26	186	-	6	23	106	39540	6910
91-55	10473	76.10	77.10	1.00	-	-	19	-	-	0.1	334	26	227	-	6	27	85	43620	14470
91-55	10474	77.10	78.20	1.10	-	-	12	-	-	0.1	207	18	167	-	5	21	125	32020	9360
91-55	10475	78.20	79.20	1.00	-	-	4	-	-	0.1	292	63	162	-	8	32	103	75980	7560
91-55	10476	79.20	80.20	1.00	-	-	5	-	-	0.1	226	41	121	-	7	37	97	69110	7470
91-55	10477	80.20	81.80	1.60	-	-	2	-	-	0.6	113	11	117	-	5	23	110	17030	9450
91-55	10478	81.80	83.80	2.00	-	-	1	-	-	0.5	101	15	60	-	4	23	90	11010	5990

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COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M.REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ15+16  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
10402	.1	23050	15	4	416	1.2	4	22940	.1	13	16	51510	3370	18	18480	996	1	230	1	2240	11	3	36	1	302	44.7	88	1	1	2	26	4	
10403	.1	23140	11	4	133	1.4	3	18960	.1	13	6	49860	3620	15	16920	811	1	250	1	2300	6	2	35	1	285	39.3	100	1	1	2	30	1	
10404	.1	26290	9	5	508	1.3	3	24190	.1	12	5	54660	3410	19	18470	1133	1	200	1	2270	7	1	39	1	221	41.5	108	1	1	2	35	2	
10405	.1	17110	372	6	303	1.5	2	24410	.1	12	4	53170	4200	10	18640	1017	1	140	1	2090	8	4	39	1	206	30.0	95	1	1	2	30	1	
10406	.1	12900	26	7	162	1.4	2	24290	.1	11	4	51850	5020	8	18370	1192	1	130	1	2330	11	2	57	1	212	26.7	93	1	1	2	28	1	
10407	.4	6720	168	1	187	2.3	2	1400	.1	2	9	22080	3530	1	1080	21	23	440	6	50	28	25	3	4	28	2.4	152	1	1	2	44	38	
10408	.4	4180	339	1	69	2.1	1	1710	.1	3	8	26130	2380	1	830	24	28	30	5	30	18	33	4	3	15	1.5	185	1	1	2	46	72	
10409	.3	6110	240	1	98	1.7	2	2250	.1	2	9	19070	3260	1	1320	34	21	490	12	40	22	32	6	2	27	3.1	230	1	1	4	79	50	
10410	.1	6090	332	1	87	1.8	1	1710	.1	3	8	27510	3160	1	1120	41	41	400	7	20	27	34	4	3	28	2.4	293	1	1	2	53	95	
10411	.1	7640	251	1	99	1.3	2	2550	.1	3	9	24120	4060	2	1570	65	33	1210	10	30	31	30	5	3	33	4.6	218	1	1	4	101	36	
10412	.2	8920	406	1	109	2.1	2	1690	.1	3	9	30210	4570	2	1330	52	59	490	6	40	23	39	5	5	34	3.8	159	1	1	3	52	60	
10413	.3	10340	356	1	125	1.6	1	1230	.1	2	10	15850	5300	2	1300	50	79	470	10	70	23	37	5	6	40	6.1	172	2	1	3	34	33	
10414	.1	10360	307	1	122	2.0	1	1550	.1	4	20	24150	5320	2	1310	70	230	910	44	60	27	90	5	9	24	11.3	214	1	1	2	19	1720	
10415	.1	11090	608	1	123	1.9	1	1550	.1	5	21	23960	5630	3	1430	45	173	1170	150	80	26	97	5	7	31	17.2	227	1	1	4	33	1500	
10416	.1	9480	865	1	115	2.1	1	2680	.1	15	53	48310	4940	3	1370	131	61	1950	213	310	20	152	6	3	37	30.0	292	1	1	3	21	2700	
10417	.1	14530	365	1	156	2.3	1	3770	.1	12	74	37260	7370	3	1770	142	49	1320	103	890	22	126	7	1	40	63.8	454	1	1	3	31	2300	
10418	.1	9350	246	1	136	1.9	1	2710	2.5	5	44	19850	4920	3	1280	94	29	1120	69	380	20	72	5	1	28	37.7	562	1	1	3	47	1720	
10419	.4	12030	350	1	148	2.5	1	2460	6.6	10	80	36210	6170	1	1380	141	31	1960	81	460	35	99	6	1	35	78.5	987	1	1	3	35	2280	
10420	.5	11840	322	1	125	2.5	1	5150	6.9	11	96	36160	5880	2	2110	181	41	2420	100	700	34	109	14	1	43	89.8	1002	1	1	3	25	2150	
10421	.3	13590	448	1	127	2.8	1	3080	8.9	16	125	49370	6840	1	1510	168	33	1160	79	610	26	155	7	1	37	104.7	1270	1	1	3	24	2850	
10422	.1	12450	473	1	123	2.5	1	2660	.6	13	91	52150	6370	1	1310	145	26	1380	54	490	25	125	6	1	35	54.9	678	1	1	2	26	2300	
10423	.3	5270	330	1	62	1.9	1	2610	8.8	9	83	31200	2950	1	580	137	54	1090	125	460	27	97	5	1	13	36.3	1000	1	1	2	37	1570	
10424	.3	5540	303	1	65	2.0	1	2790	10.5	11	85	38190	3070	1	540	160	58	1130	113	570	23	105	5	1	17	39.2	1040	1	1	1	20	1800	
10425	.1	5970	736	1	76	1.8	1	1910	.1	5	33	32150	3390	1	700	93	46	840	38	220	23	52	5	2	15	16.0	510	1	1	2	50	1250	
10426	.1	4470	377	1	62	1.2	1	3900	.1	2	8	15700	2500	1	1380	117	10	450	12	30	17	22	17	2	16	2.0	147	1	1	3	80	755	
10427	.1	4940	1033	1	70	1.7	1	1890	.1	5	11	57560	2980	1	770	117	59	30	1	60	24	23	6	4	14	.1	94	1	1	2	40	1120	
10428	.4	5870	127	1	87	1.3	1	11910	7.3	8	71	29600	3390	1	780	351	50	1410	92	550	20	64	42	1	17	35.4	725	1	1	2	37	1600	
10429	.7	2920	123	1	45	1.2	1	23110	10.2	9	67	29920	1850	1	930	1022	50	1060	93	1000	16	67	29	1	10	23.8	849	1	1	1	13	1780	
10430	.8	3900	137	1	55	1.2	1	24740	10.4	9	77	31620	2400	1	960	896	56	1200	97	1020	16	72	32	1	12	32.4	909	1	1	1	23	2000	
10431	.5	3080	133	1	58	1.6	1	11010	8.7	9	69	29870	2010	1	870	338	44	1660	89	690	23	61	20	1	11	20.2	818	1	1	1	17	1760	
10432	.7	4200	128	1	83	1.3	1	24640	7.5	8	63	29580	2650	1	890	887	45	1390	87	670	21	56	31	1	14	25.4	691	1	1	1	26	1640	
10433	.8	5190	127	1	82	1.5	1	25970	8.4	11	69	34650	3160	1	950	766	49	1130	94	910	15	64	32	1	20	34.8	800	1	1	2	29	1920	
10434	.5	3910	124	1	103	1.8	1	16590	6.1	9	67	30810	2480	1	780	370	50	3110	93	570	23	63	19	1	16	26.4	614	1	1	1	23	1600	
10435	.1	3570	170	1	60	1.3	1	18610	1.1	22	61	44520	2330	1	770	502	25	980	67	940	12	54	22	1	17	19.9	389	1	1	2	30	1340	
10436	.4	2480	91	1	48	1.0	1	14800	3.5	5	33	17490	1670	1	520	250	29	1220	55	570	15	33	16	1	13	13.5	413	1	1	2	52	1265	
10437	.2	3370	234	1	112	1.3	1	20950	.1	3	9	34170	2530	1	790	392	22	30	1	60	24	12	27	5	14	1.0	168	1	1	1	21	1535	
10438	.1	4540	265	1	143	1.7	1	6800	.1	4	13	39260	3250	1	790	162	33	580	22	60	29	26	9	3	21	.8	157	1	1	2	40	1200	
10439	.3	4810	147	1	96	1.5	1	8130	2.8	6	35	30180	3000	1	830	174	38	1750	49	440	25	37	9	1	27	16.2	509	1	1	2	58	1185	
10440	.4	3830	114	1	70	1.4	1	19420	4.0	6	46	23370	2370	1	770	378	42	2280	76	640	20	47	21	1	20	25.4	436	1	1	2	48	1180	
10441	.4	3150	115	1	85	1.3	1	11250	6.1	6	101	22740	1940	1	1430	293	29	1650	90	470	23	47	14	1	14	18.2	597	1	1	2	50	1030	
10442	.6	7280	56	1	102	2.9	1	10490	.1	1	7	10810	2970	6	5790	251	3	70	1	50	24	9	20	8	14	1.5	159	2	1	2	29	295	
10443	.5	8570	54	1	71	3.2	1	5970	.1	2	8	12640	2430	10	8570	193	3	50	1	60	23	11	18	6	10	2.2	193	3	1	1	22	310	
10444	.7	2720	111	1	225	1.3	1	10310	6.2	5	38	17670	1470	1	4420	274	14	1120	48	230	13	44	22	1	12	17.4	472	1	1	2	46	870	
10445	.4	2710	115	1	86	1.0	1	5970	7.0	6	48	23450	1670	1	1610	147	20	970	46	430	18	50	13	1	14	14.5	654	1	1	4	102	970	
10446	2.6	7870	475	1	90	2.3	1	3690	.1	10	47	41440	4000	1	1110	155	17	1390	31	620	15	109	8	1	22	25.1	380	1	1	2	42	1350	
10447	.9	8930	1304	1	94	1.7	1	3400	12.8	8	58	30740	4560	1	740	103	21	2610	51	780	20	133	7	1	30	57.1	966	1	1	2	38	1200	
10448	.2	6980	842	1	143	1.2	1	2650	1.3	7	47	28140	3610	1	610	96	15	2520	36	550	18	110	7	1	25	32.9	330	1	1	5	120		

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

MIN-EN LABS — ICP REPORT  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ17+18  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPM	HG PPM
10458	3.2	7870	664	1	75	2.9	1	1930	7.6	11	87	38380	4040	1	710	109	31	2400	75	340	24	137	5	1	24	49.3	654	1	1	2	34	1135	
10459	2.1	8170	763	1	72	3.2	1	2560	8.9	11	96	40540	4250	1	730	115	15	1220	47	490	22	131	6	1	22	56.4	786	1	1	2	46	1250	
10460	1.5	5640	655	1	55	2.6	1	2190	15.1	9	89	34520	2970	1	510	102	20	880	57	410	19	120	6	1	16	41.7	989	1	1	1	24	1300	
10461	1.6	6690	1075	1	63	2.4	1	3600	13.5	12	99	43490	3640	1	600	125	25	1110	61	880	19	148	8	1	19	42.9	931	1	1	1	22	1515	
10462	2.3	9320	686	1	82	2.9	1	2270	7.7	10	98	38640	4710	1	800	135	15	900	51	390	17	146	6	1	25	60.3	661	1	1	2	37	1620	
10463	1.5	8940	759	1	114	2.9	1	2530	5.1	11	93	41320	4570	1	780	129	13	1730	40	490	20	141	6	1	30	57.6	591	1	1	2	30	1455	
10464	1.7	7990	497	1	114	2.6	1	2710	7.3	10	91	37270	4160	1	720	109	17	1100	45	530	16	124	6	1	23	53.5	672	1	1	1	27	1355	
10465	3.5	6530	429	1	60	2.6	1	2430	8.9	9	100	40110	3440	1	630	101	14	1560	34	450	19	126	6	1	17	36.2	664	1	1	1	33	1675	
10466	1.7	4270	391	1	54	2.4	1	3480	9.0	7	87	31520	2380	1	750	97	23	1010	63	440	14	113	13	1	9	28.5	691	1	1	2	42	1355	
10467	113.1	4300	390	1	121	1.5	1	4180	2.1	6	65	21040	2220	2	1210	122	23	1540	53	400	106	255	12	1	12	26.8	830	1	1	3	56	1300	
10468	57.2	1070	497	1	48	1.1	1	1380	.9	7	81	28130	870	3	200	75	10	1390	32	190	95	164	4	1	12	7.7	618	1	1	1	24	1125	
10469	15.8	3610	181	1	116	1.3	1	4240	1.9	5	38	20720	2000	2	740	102	24	1890	35	170	44	94	8	1	14	12.2	451	1	1	2	64	680	
10470	.6	6550	621	1	226	1.9	1	6100	.1	2	6	22350	3470	1	1230	71	13	40	4	40	21	39	11	5	30	.8	173	1	1	3	66	57	
10471	.4	7380	165	1	210	1.3	2	7930	.1	1	5	12120	3800	1	1640	97	9	280	2	20	16	22	15	5	37	1.4	122	3	1	4	102	22	
10472	.1	7060	370	1	186	1.7	1	6910	.1	3	6	39540	3650	1	1670	70	19	540	1	10	23	26	14	4	37	.4	106	1	1	4	89	18	
10473	.1	8690	334	1	227	1.8	2	14470	.1	4	6	43620	4540	1	1580	129	14	720	1	10	27	26	20	3	49	1.0	85	1	1	4	112	19	
10474	.1	7150	207	1	167	1.9	2	9360	.1	3	5	32020	3760	1	1690	125	10	80	1	10	21	18	16	6	41	.8	125	1	1	3	64	12	
10475	.1	7810	292	2	162	2.1	1	7560	.1	6	8	75980	4130	1	1570	46	21	550	1	10	32	63	12	2	39	.1	103	1	1	4	95	4	
10476	.1	5540	226	1	121	1.9	1	7470	.1	6	7	69110	2980	1	1370	39	27	880	1	10	37	41	11	1	32	.1	97	1	1	3	66	5	
10477	.6	6040	113	1	117	1.9	2	9450	.1	2	5	17030	3260	1	1830	115	8	410	1	10	23	11	14	5	36	1.1	110	2	1	3	78	2	
10478	.5	3460	101	11	60	1.0	1	5990	.1	1	4	11010	1880	1	2160	69	6	240	1	10	23	15	15	1	29	1.3	90	2	1	5	106	1	
10479	1.3	3410	175	1	77	1.2	1	3210	20.8	8	76	32490	1780	2	1570	302	30	780	73	260	19	116	6	1	17	33.9	1292	1	1	1	25	1300	
10480	.4	5360	321	1	105	1.2	1	1870	3.9	8	51	33380	2660	2	2110	197	40	1520	57	160	24	103	4	1	28	30.0	568	1	1	2	49	1475	
10481	.1	5680	149	1	100	.8	1	3740	.1	3	13	17250	2590	4	3250	67	23	770	21	40	17	43	7	2	21	5.0	206	1	1	4	88	1100	
10482	.1	2900	160	1	73	.8	1	6020	.1	3	13	15050	1740	1	2650	91	26	800	30	30	16	42	14	2	12	3.6	269	1	1	4	102	980	
10483	.3	4020	249	1	89	1.2	1	4540	4.3	6	49	25470	2260	2	1950	92	40	890	80	230	22	76	9	1	16	21.8	811	1	1	4	81	1085	
10484	.1	2590	348	1	63	1.0	1	1710	3.0	6	33	23150	1530	1	760	62	41	830	130	80	18	76	4	1	13	13.9	546	1	1	5	126	1065	
10485	.3	2920	215	1	67	1.1	1	2810	8.9	7	55	24920	1700	1	780	104	36	670	86	370	21	82	5	1	14	21.5	819	1	1	2	46	1100	
10486	.1	2830	275	1	80	1.1	1	3740	1.3	4	25	22000	1720	2	1230	67	28	600	40	220	19	56	8	1	12	7.6	439	1	1	2	58	1470	
10487	.1	2880	732	1	73	1.0	1	6300	.1	3	9	28940	1900	2	2570	73	34	610	13	40	21	48	16	3	10	1.1	187	1	1	2	60	1900	
10488	.1	3730	757	1	52	1.1	1	2950	.1	3	7	36820	2120	1	1430	33	31	30	1	30	12	34	6	2	11	.5	112	1	1	3	82	1100	
10489	.1	3830	358	1	94	1.2	1	8200	.1	3	9	35590	2300	1	2940	130	23	30	1	40	14	35	22	3	14	1.5	127	1	1	3	73	985	
10490	.2	4120	176	1	106	1.0	1	9130	.1	2	10	19940	2350	2	2350	146	17	30	12	20	18	37	18	3	15	3.1	198	1	1	4	95	600	
10491	.1	4080	1853	1	117	1.4	1	3720	.1	3	7	31530	2400	2	1580	31	31	760	1	40	30	69	11	3	18	.7	182	1	1	4	92	1830	
10492	.1	2930	499	1	94	1.1	1	2590	.1	4	13	39880	1800	1	1100	34	44	730	15	10	16	46	7	1	12	3.0	230	1	1	3	72	910	
10493	.1	3500	262	1	102	1.3	1	2350	.1	2	8	24620	2070	2	1030	38	26	30	6	20	16	41	7	2	12	1.2	173	1	1	3	73	595	
10494	.1	3840	596	1	68	1.0	1	1810	.1	5	8	55760	2210	2	860	53	82	520	1	10	17	61	4	1	19	.7	133	1	1	3	81	1120	
10495	.1	4170	353	1	198	.8	1	580	.1	3	13	18730	2350	1	580	36	72	510	65	50	22	74	3	4	16	4.5	198	1	1	3	57	900	
10496	.3	5200	741	1	90	1.3	1	2560	3.5	10	82	39980	2740	2	720	108	77	1080	106	540	26	191	6	1	16	30.1	808	1	1	2	22	2165	
10497&10498	2.3	3310	791	1	111	1.4	1	2660	7.1	8	75	30550	1790	1	380	69	34	1050	74	590	15	191	6	1	10	24.9	817	1	1	1	26	1960	
10499	1.8	3760	1522	1	82	1.9	1	3210	5.6	11	89	38960	2130	1	410	62	24	980	63	740	15	249	6	1	11	26.1	779	1	1	1	28	2400	
10500	1.9	3490	1110	1	88	1.9	1	3060	20.7	9	97	35830	1980	1	400	73	31	710	80	730	11	287	6	1	10	26.9	1460	1	1	1	27	2550	
10501	1.5	4890	1905	3	121	2.5	1	2820	5.7	10	90	38240	2660	2	510	79	15	1540	47	610	21	286	7	1	12	31.0	751	1	1	1	31	2370	
10502	1.4	4170	1845	1	45	2.8	1	2190	10.8	13	95	39300	2340	1	450	83	48	960	117	410	21	911	6	1	11	30.5	921	1	1	1	23	3300	
10503	4.8	4400	1675	1	101	2.9	1	2920	14.2	10	101	35620	2420	2	490	77	45	1000	113	590	17	992	8	1	11	34.4	1092	1	1	1	26	3350	
10504	5.5	4550	1532	1	66	2.4	1	3300	6.6	9	63	29210	2390	1	490	63	17	740	47	750	9	286	7	1	13	29.5	710	1	1	2	31	1550	
10505	23.9	2770	467	1	141	1.8	1	1200	9.4	5	54	18190	1580	1	420	61	14	830	39	120	26	662	3	1	11	19.2	795	1	1	2	60	1595	
10506	445.6	14																															



**MIN-EN LABORATORIES**  
 (DIVISION OF ASSAYERS CORP)

91-55

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 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
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 FAX (604) 980-9621

**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

*Assay Certificate*

1S-0124-RA5

Company: **COPELAND REBAGLIATI & ASSOC.**  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-18-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify the following Assay of 23 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.*

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton
10414	.04	.001
10415	.05	.001
10416	.03	.001
10417	.02	.001
10418	.01	.001
10419	.04	.001
10420	.05	.001
10421	.16	.005
10422	.22	.006
10423	.27	.008
10424	.44	.013
10425	.21	.006
10426	.13	.004
10427	.11	.003
10428	.01	.001
10429	.02	.001
10430	.01	.001
10431	.01	.001
10432	.01	.001
10433	.01	.001
10434	.01	.001
10435	.01	.001
10436	.02	.001
10437	.02	.001
10438	.01	.001
10439	.02	.001
10440	.01	.001
10441	.01	.001
10442	.01	.001
10443	.02	.001
10444	.02	.001
10445	.02	.001

Certified by

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**SMITHERS LAB.:**  
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 SMITHERS B.C. CANADA V0J 2N0  
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 FAX (604) 847-3005

Geochemical Analysis Certificate

1S-0124-RG5

Company: **COPELAND REBAGLIATI & ASSOC.**  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-18-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify* the following Geochemical Analysis of 23 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.

Sample Number	AG PPM
10414	1.8
10415	1.7
10416	2.2
10417	2.2
10418	2.5
10419	2.5
10420	2.7
10421	3.4
10422	3.0
10423	1.8
10424	2.2
10425	1.6
10426	1.4
10427	1.7
10428	2.2
10429	3.0
10430	2.8
10431	2.2
10432	2.3
10433	2.4
10434	3.2
10435	2.1
10436	1.6
10437	2.1
10438	1.6
10439	1.6
10440	2.5
10441	1.7
10442	1.4
10443	1.3
10444	1.7
10445	1.3

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**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
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Assay Certificate

1S-0124-RA6

Company: **COPELAND REBAGLIATI & ASSOC.**  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-18-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify* the following Assay of 23 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton
10446	3.77	.110
10447	2.00	.058
10448	1.13	.033
10449	1.70	.050
10450	2.56	.075
10451	1.89	.055
10452	3.88	.113
10453	2.72	.079
10454	1.50	.044
10455	1.77	.052
10456	1.45	.042
10457	1.63	.048
10458	2.03	.059
10459	1.26	.037
10460	.45	.013
10461	.07	.002
10462	.02	.001
10463	.03	.001
10464	.04	.001
10465	.04	.001
10466	.05	.001
10467	1.04	.030
10468	1.13	.033
10469	.44	.013

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**SMITHERS LAB.:**  
 3178 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Geochemical Analysis Certificate

15-0124-RG6

Company: **COPELAND REBAGLIATI & ASSOC.**  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-18-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify* the following Geochemical Analysis of 23 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.

Sample Number	AG PPM
10446	3.9
10447	2.2
10448	1.8
10449	2.5
10450	2.5
10451	2.9
10452	4.5
10453	7.6
10454	9.3
10455	22.1
10456	13.0
10457	5.8
10458	4.7
10459	3.9
10460	3.0
10461	3.3
10462	3.8
10463	3.2
10464	3.6
10465	4.7
10466	3.1
10467	108.3
10468	58.7
10469	15.4

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**SMITHERS LAB.:**  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

Assay Certificate

IS-0124-XA1

Company: COPELAND REBAGLIATI & ASSOC.  
Project: 9101  
Attn: MARK REBAGLIATI

Date: JUL-18-91  
Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify the following Assay of 19 ROCK samples submitted JUL-17-91 by MARK REBAGLIATI.*

Sample Number	AG	AG	<i>Primary</i> AG	<i>Replicy</i> AG
	g/tonne	oz/ton	g/tonne	oz/ton
10455	25.1	.73		
10456	12.8	.37		
10467	109.5	3.19		
10468	62.4	1.82		
10469	16.5	.48		

\* Metallic Silver Noted in samples, so perun to check, use 1st + 2nd columns when reporting

Certified by *[Signature]*

MIN-EN LABORATORIES

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AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-56

SIB PROPERTY DIAMOND DRILL LOG

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NTS MAP # : 1048/9	CLAIM # : SIB 12, 33, 35	
LOCAL GRID : 8843.69 N / 9729.20 E	GLOBAL GRID : 13223.37 N / 17762.82 E	
LENGTH : 59.70 m	INCLINATION : -72.5 degrees	ELEVATION : 979.26 metres
OVERBURDEN : 4.60 m	CASING : 4.60 metres	AZIMUTH : 294.5 degrees
LOGGED BY : Paul Lawnikanis	DRILLED BY : J.T. Thomas	ASSAYING BY : Min-En Labs
DATE LOGGED : 1991/07/11	DATE DRILLED : 1991/07/10	CORE LOCATION: 86+30 N, 96+70 E
Y/M/D	Y/M/D	SAMPLE NO. SERIES : 10479-10525

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SUMMARY LOG 91-56

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From(m)	To(m)	Field Name (Legend)
0.00	4.60	CASING
4.60	13.20	SULPHIDIC MUDSTONE AND CHERT (3.5) +/- TURBIDITIC MUDSTONE (3.6)
13.20	23.90	TUFFACEOUS RHYOLITE (3.9) +/- BLACK CHERT - CHERT BRECCIA -SERICITE (3.3a)
23.90	42.80	SULPHIDIC MUDSTONE AND CHERT (3.5) +/- TURBIDITIC MUDSTONE (3.6)
42.80	52.00	TUFFACEOUS RHYOLITE (3.9) +/- BLACK CHERT - CHERT BRECCIA -SERICITE (3.3)
52.00	59.70	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
59.70		END OF HOLE.

---

ANALYTICAL HIGHLIGHTS 91-56

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From(m)	To(m)	Length(m)	Au g/t	Au Oz/ton	Ag g/t	Ag Oz/ton	% Pb	% Zn
21.74	23.00	1.26	0.37	0.011	1.5	0.04		
25.30	34.00	8.70	1.73	0.050	6.3	0.18		
34.00	37.00	3.00	8.16	0.238	1139.3	33.23		
37.00	39.30	2.3	2.99	0.087	90.9	2.65		



From(m)      To(m)      -----Description-----

0.00      4.60      CASING  
4.60      13.20      SULPHIDIC MUDSTONE AND CHERT (3.5) +/- TURBIDITIC MUDSTONE (3.6)

Lithology <4.6>-<6.6>

-Charcoal to grey black, massive to weakly bedded mudstone.  
1 -2cm pyritic laminations are weakly developed, no or very limited tuffaceous input.

Structure, Mineralization

-4.8m Sulphide (pyritic) lamella: 12 degrees to c/a; oriented core indicates subvertical to weakly overturned beds.  
-Flame structures (weak); downhole younging inferred, not equivocal.  
-6.1m Sulphide lamination 5 degrees to c/a, potential hinge line.

Lithology <6.6>-<10.2>

-Poorly laminated medium grey mudstone with 15 - 20% diffuse, anastomosing tuffaceous input. Felsic "lenses" contain primary phenocrysts, identity uncertain. Sporadic quartz carbonate vein injection increasing towards lower contact. Felsic input sericitized 2 -3% disseminated pyrite. No significant faults.

Structure

-9.5m Foliation: 7 degrees to c/a, compositional layering: 32 degrees to c/a.

Lithology <10.2>-<13.2>

-Very similar rock unit to the interval 4.6 - 6.6m. Fine grained turbiditic laminations common, younging indicators rare. Discordant vein injection, chiefly carbonate microveinlets, <5% rock volume. Sericitic. Felsic input absent. No significant detachment, but localized graphitic shear planes, displacement?

Structure, Mineralization

-11.8m Sulphide lamellae 28 degrees to c/a, graphitic slickenslides: subvertical.  
-12.5m Weak kinematic indicators:  
Weak sinistral rotation based on vein tip rotation.

13.20      23.90      TUFFACEOUS RHYOLITE (3.9) +/- BLACK CHERT - CHERT BRECCIA -SERICITE (3.3a)

Lithology

-Moderately sericitized felsic tuff, with weak clastic input. Compositional layers typically defined by either black clastic or pyrite lamellae. Pyrite content 10 - 15%, 5% disseminated, 8 - 10% as lamella and stringers. Discordant veins <2% rock volume. Lamellae may sometimes exceed 5.0cm in thickness.  
-19.3 - 20.7 Enhance bedding, pyrite: 15 - 18% rock volume; 19.9m: Massive pyrite lamellae, up-hole younging suggested. Bedding 46 degrees to c/a.  
-16.6 - 18.3 Sub-interval of penecontemporaneous clastics and volcanic breccias.

From(m)	To(m)	-----Description-----
		<p>Structure</p> <ul style="list-style-type: none"> <li>-13.7 Compositional layering 28 degrees to c/a. Foliation 47 degrees to c/a.</li> <li>- No significant bedding rotations.</li> <li>-23.2m Bedding 43 degrees to c/a pyrite lamellae.</li> </ul>
23.90	42.80	<p>SULPHIDIC MUDSTONE AND CHERT (3.5) +/- TURBIDITIC MUDSTONE (3.6)</p> <p>Lithology &lt;23.9&gt;-&lt;34.1&gt;</p> <ul style="list-style-type: none"> <li>-Well laminated, massive and dark grey to black mudstone. Laminations are defined by 0.5 - 1.5cm pyrite beds. Very restricted tuffaceous input, intensely graphitic foliation surface. The mineralized zone develops toward the structural lower contact with the underlying sericitized felsic tuffs.</li> </ul> <p>Structure</p> <ul style="list-style-type: none"> <li>-24.6 Compositional layering 50 degrees to c/a, parallels foliation.</li> <li>-26.2 - 27.0 Broken core, and vein injection, no significant movement is inferred.</li> <li>-27.5 Bedding rotation, subparallel 8 degrees to c/a.</li> <li>-29.0 Bedding 20 degrees to c/a. Foliation 3 degrees to c/a.</li> <li>-32.4 - 33.5 Superb AE turbidite, thin grey clastic interbeds. 33.2 Bedding 57 to c/a</li> <li>-34.0 Bedding 52 degrees to c/a.</li> </ul> <p>Lithology &lt;34.1&gt;-&lt;42.8&gt;</p> <ul style="list-style-type: none"> <li>-Sulphidic mudstone</li> </ul> <p>Structure</p> <ul style="list-style-type: none"> <li>-37.9 Bedding 55 degrees to c/a</li> <li>-40.3 Bedding 43 degrees to c/a</li> <li>-42.5 Bedding (pyritic lamellae) 40 degrees to c/a.</li> </ul> <p>Mineralization</p> <ul style="list-style-type: none"> <li>- Antimony quartz gold veinlet injected.</li> <li>- Mineralized interval. Small anastomosing antimony - pyrargyrite and visible gold associated with quartz and lesser carbonate gangue minerals. Open space textures are common, stibnite lathes are discordant to foliation. Macroscopic indicators suggest intensity of mineralization increases towards the lower felsic tuff contact.</li> <li>-34.2 Stibnite - quartz veinlets discordant to pyrite foliation.</li> <li>-34.6 Visible Gold</li> <li>-35.2 Visible Gold generalized vein distribution: Sb micro-veinlets subparallel and weakly discordant to pyritic lamellae Discordant Sb stockwork, no consistent vein orientation.</li> <li>-37.8 Stibnite veinlet delaminates pyritic lamellae, Sb veinlet orientation 39 degrees to c/a.</li> <li>-38.8 - 42.8 Quartz - stibnite vein injection increases, and vein width increases. Visible Gold associated with Sb - Qtz veins throughout this interval.</li> <li>-Visible Gold veinlet orientation 34 degrees to c/a.</li> <li>-39.5 Sb vein orientation 60 degrees to c/a. Black carbonaceous or Mg chlorite veinlet envelop.</li> </ul>

From(m)	To(m)	Description
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- Down hole vein contact. 39.5m graphitic slip plane.
- Sb Qtz vein aggregates and stockwork; dominant vein set 40 degrees to c/a

42.80	52.00	TUFFACEOUS RHYOLITE (3.9) +/- BLACK CHERT - CHERT BRECCIA -SERICITE (3.3)
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## Lithology &lt;42.8&gt;-&lt;45.8&gt;

- The onset of volcanic stratigraphy is defined by a thin 60 - 80cm heterolithic breccia. Both chert, black clastic and strongly sericitized volcanic fragments. Thin pyritic lamellae are included in this interval. Below the heterolithic breccia, a medium to apple green felsic, to intermediate pyroclastic interval is developed to the lower contact. Clastic input in this interval is limited.
- 44.8 Well developed lapilli sized, rounded, medium green, volcanic fragments likely at intermediate composition.

## Structure

- 43.1 Bedding 65 degrees to c/a

## Mineralization

- Net pyrite content 8 - 10%; stibnite is not visible.

## Lithology &lt;45.8&gt;-&lt;56.1&gt;

- Fine grained black clastic compositional layers are aligned to foliation and occupy less than 5% rock volume. Felsic volcanic components are moderately sericitized and pyritized. Pyrite approximately 5 - 10%. Local flow bands and autobreccia features are common. Late calcite veinlets do not carry sulphide phases. No significant detachments.
- 47.5 Compositional layering 28 degrees to c/a.
- 54.1 - 56.1 Black compositional layers diminish. Rock is becoming increasingly rhyolitic.
- 55.3 Compositional layering 15 degrees to c/a; Note: No significant rotation.

52.00	59.70	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
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## Lithology &lt;56.1&gt;-&lt;59.7&gt;

- The rock unit is massive, and typically pale to cream grey in color. Disseminated pyrite is <2%, and the rock matrix has been weakly sericitized. Net feldspar content appears low, and is far subordinate to silica.

## Structure

- 56.0 Flow banding 43 degrees to c/a.
- 58.0 Weak flow banding 35 degrees to c/a.

## Mineralization

- 56.1 Discordant calcite veins carry no sulphide phases, orientation 35 degrees to c/a.

59.70	END OF HOLE.
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## AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

## - SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-56	10479	4.60	5.60	1.00	0.06	0.002	-	-	-	2.5	175	116	77	1300	76	19	1292	32490	3210
91-56	10480	5.60	6.50	0.90	0.03	0.001	-	-	-	1.9	321	103	105	1475	51	24	568	33380	1870
91-56	10481	6.50	8.00	1.50	0.02	0.001	-	-	-	1.4	149	43	100	1100	13	17	206	17250	3740
91-56	10482	8.00	9.50	1.50	0.01	0.001	-	-	-	1.4	160	42	73	980	13	16	269	15050	6020
91-56	10483	9.50	10.50	1.00	0.02	0.001	-	-	-	1.9	249	76	89	1085	49	22	811	25470	4540
91-56	10484	10.50	11.50	1.00	0.02	0.001	-	-	-	1.7	348	76	63	1065	33	18	546	23150	1710
91-56	10485	11.50	12.30	0.80	0.02	0.001	-	-	-	1.9	215	82	67	1100	55	21	819	24920	2810
91-56	10486	12.30	13.00	0.70	0.02	0.001	-	-	-	1.5	275	56	80	1470	25	19	439	22000	3740
91-56	10487	13.00	14.00	1.00	0.02	0.001	-	-	-	1.5	732	48	73	1900	9	21	187	28940	6300
91-56	10488	14.00	15.50	1.50	0.03	0.001	-	-	-	0.8	757	34	52	1100	7	12	112	36820	2950
91-56	10489	15.50	17.00	1.50	0.02	0.001	-	-	-	0.9	358	35	94	985	9	14	127	35590	8200
91-56	10490	17.00	18.50	1.50	0.03	0.001	-	-	-	0.8	176	37	106	600	10	18	198	19940	9130
91-56	10491	18.50	20.00	1.50	0.32	0.009	-	-	-	1.3	1853	69	117	1830	7	30	182	31530	3720
91-56	10492	20.00	20.50	0.50	0.16	0.005	-	-	-	1.1	499	46	94	910	13	16	230	39880	2590
91-56	10493	20.50	21.74	1.24	0.03	0.001	-	-	-	0.9	262	41	102	595	8	16	173	24620	2350
91-56	10494	21.74	23.00	1.26	0.37	0.011	-	-	-	1.5	596	61	68	1120	8	17	133	55760	1810
91-56	10495	23.00	23.80	0.80	0.17	0.005	-	-	-	1.1	353	74	198	900	13	22	198	18730	580
91-56	10496	23.80	25.30	1.50	0.24	0.007	-	-	-	1.8	741	191	90	2165	82	26	808	39980	2560
91-56	10497	25.30	26.50	1.20	1.45	0.042	-	-	-	3.3	791	191	111	1960	75	15	817	30550	2660
91-56	10498	26.50	27.40	0.90	1.45	0.042	-	-	-	3.3	79	191	111	1960	75	15	817	30550	2660
91-56	10499	27.40	28.40	1.00	1.77	0.052	-	-	-	2.9	1522	249	82	2400	89	15	779	38960	3210
91-56	10500	28.40	29.00	0.60	1.31	0.038	-	-	-	3.2	1110	287	88	2550	97	11	1460	35830	3060
91-56	10501	29.00	30.00	1.00	1.81	0.053	-	-	-	2.7	1905	286	121	2370	90	21	751	38240	2820
91-56	10502	30.00	31.00	1.00	2.29	0.067	-	-	-	3.0	1845	911	45	3300	95	21	921	39300	2190
91-56	10503	31.00	32.00	1.00	2.10	0.061	-	-	-	5.9	1675	992	101	3350	101	17	1092	35620	2920
91-56	10504	32.00	33.00	1.00	2.05	0.060	-	-	-	6.6	1532	286	66	1550	63	9	710	29210	3300
91-56	10505	33.00	34.00	1.00	1.19	0.035	-	24.60	0.72	22.7	467	662	141	1595	54	26	795	18190	1200
91-56	10506	34.00	35.00	1.00	*5.49	*0.160	-	436.00	12.72	1600.0	297	2723	104	1550	111	178	411	15330	970
91-56	10507	35.00	36.00	1.00	*12.68	*0.370	-	2600.00	75.83	2890.0	221	10462	101	2200	438	965	1275	10790	4800
91-56	10508	36.00	37.00	1.00	*3.71	*0.108	-	382.00	11.14	1160.0	245	3041	105	1100	103	198	417	15590	3940
91-56	10509	37.00	38.80	1.80	2.81	0.082	-	103.80	3.03	108.0	581	1084	108	925	44	50	348	18690	510
91-56	10510	38.80	39.30	0.50	3.62	0.106	-	44.40	1.30	42.1	709	6434	81	870	48	22	462	16080	3120
91-56	10511	39.30	39.80	0.50	0.20	0.006	-	3.60	0.11	4.3	278	308	68	1285	66	18	895	23540	24040
91-56	10512	39.80	40.30	0.50	0.04	0.001	-	-	-	3.3	207	140	73	1300	67	16	789	26350	16320
91-56	10513	40.30	40.80	0.50	0.02	0.001	-	-	-	2.9	155	122	58	1200	73	15	678	30260	21540
91-56	10514	40.80	41.30	0.50	0.03	0.001	-	-	-	2.9	203	140	66	1220	109	32	1075	46400	5950
91-56	10515	41.30	42.30	1.00	0.07	0.002	-	-	-	8.8	115	137	60	960	74	26	588	29050	7160
91-56	10516	42.30	42.80	0.50	0.01	0.001	-	-	-	2.3	103	55	100	850	46	24	752	17010	6360
91-56	10517	42.80	45.00	2.20	0.01	0.001	-	-	-	1.5	46	6	92	1200	60	18	178	54450	56250
91-56	10518	45.00	46.50	1.50	-	-	19	-	-	1.4	29	13	206	-	3	24	116	13150	8600
91-56	10519	46.50	48.00	1.50	-	-	2	-	-	0.6	30	8	77	-	5	26	110	13410	12210
91-56	10520	48.00	50.00	2.00	-	-	2	-	-	0.7	18	7	87	-	3	24	117	10270	7830
91-56	10521	50.00	52.00	2.00	-	-	1	-	-	0.9	25	6	56	-	3	24	113	7590	11380
91-56	10522	52.00	54.00	2.00	-	-	1	-	-	0.7	28	6	188	-	3	20	112	16160	8820
91-56	10523	54.00	56.00	2.00	-	-	3	-	-	0.5	28	7	114	-	5	24	139	17890	7150
91-56	10524	56.00	58.00	2.00	-	-	1	-	-	0.7	27	5	37	-	3	24	116	12770	9900
91-56	10525	58.00	59.70	1.70	-	-	1	-	-	0.8	23	6	57	-	2	25	102	10780	10970

Note: \* Metallic Assay

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M.REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ17+18  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG	AL	AS	B	BA	BE	BI	CA	CD	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	P	PB	SB	SR	TH	TI	V	ZN	GA	SN	W	CR	AU-FIRE	HG	
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPB
10458	3.2	7870	664	1	75	2.9	1	1930	7.6	11	87	38380	4040	1	710	109	31	2400	75	340	24	137	5	1	24	49.3	654	1	1	2	34		1135	
10459	2.1	8170	763	1	72	3.2	1	2560	8.9	11	96	40540	4250	1	730	115	15	1220	47	490	22	131	6	1	22	56.4	786	1	1	2	46		1250	
10460	1.5	5640	655	1	55	2.6	1	2190	15.1	9	89	34520	2970	1	510	102	20	880	57	410	19	120	6	1	16	41.7	989	1	1	1	24		1300	
10461	1.6	6690	1075	1	63	2.4	1	3600	13.5	12	99	43490	3640	1	600	125	25	1110	61	880	19	148	8	1	19	42.9	931	1	1	1	22		1515	
10462	2.3	9320	686	1	82	2.9	1	2270	7.7	10	98	38640	4710	1	800	135	15	900	51	390	17	146	6	1	25	60.3	661	1	1	2	37		1620	
10463	1.5	8940	759	1	114	2.9	1	2530	5.1	11	93	41320	4570	1	780	129	13	1730	40	490	20	141	6	1	30	57.6	591	1	1	2	30		1455	
10464	1.7	7990	497	1	114	2.6	1	2710	7.3	10	91	37270	4160	1	720	109	17	1100	45	530	16	124	6	1	23	53.5	672	1	1	1	27		1355	
10465	3.5	6530	429	1	60	2.6	1	2430	8.9	9	100	40110	3440	1	630	101	14	1560	34	450	19	126	6	1	17	36.2	664	1	1	1	33		1675	
10466	1.7	4270	391	1	54	2.4	1	3480	9.0	7	87	31520	2380	1	750	97	23	1010	63	440	14	113	13	1	9	28.5	691	1	1	2	42		1355	
10467	113.1	4300	390	1	121	1.5	1	4180	2.1	6	65	21040	2220	2	1210	122	23	1540	53	400	106	255	12	1	12	26.8	830	1	1	3	56		1300	
10468	57.2	1070	497	1	48	1.1	1	1380	.9	7	81	28130	870	3	200	75	10	1390	32	190	95	164	4	1	12	7.7	618	1	1	1	24		1125	
10469	15.8	3610	181	1	116	1.3	1	4240	1.9	5	38	20720	2000	2	740	102	24	1890	35	170	44	94	8	1	14	12.2	451	1	1	2	64		680	
10470	.6	6550	621	1	226	1.9	1	6100	.1	2	6	22350	3470	1	1230	71	13	40	4	40	21	39	11	5	30	.8	173	1	1	3	66		57	
10471	.4	7380	165	1	210	1.3	2	7930	.1	1	5	12120	3800	1	1640	97	9	280	2	20	16	22	15	5	37	1.4	122	3	1	4	102		22	
10472	.1	7060	370	1	186	1.7	1	6910	.1	3	6	39540	3650	1	1670	70	19	540	1	10	23	26	14	4	37	.4	106	1	1	4	89		18	
10473	.1	8690	334	1	227	1.8	2	14470	.1	4	6	43620	4540	1	1580	129	14	720	1	10	27	26	20	3	49	1.0	85	1	1	4	112		19	
10474	.1	7150	207	1	167	1.9	2	9360	.1	3	5	32020	3760	1	1690	125	10	80	1	10	21	18	16	6	41	.8	125	1	1	3	64		12	
10475	.1	7810	292	2	162	2.1	1	7560	.1	6	8	75980	4130	1	1570	46	21	550	1	10	32	63	12	2	39	.1	103	1	1	4	95		4	
10476	.1	5540	226	1	121	1.9	1	7470	.1	6	7	69110	2980	1	1370	39	27	880	1	10	37	41	11	1	32	.1	97	1	1	3	66		5	
10477	.6	6040	113	1	117	1.9	2	9450	.1	2	5	17030	3260	1	1830	115	8	410	1	10	23	11	14	5	36	1.1	110	2	1	3	78		2	
10478	.5	3460	101	11	60	1.0	1	5990	.1	1	4	11010	1880	1	2160	69	6	240	1	10	23	15	15	1	29	1.3	90	2	1	5	106		1	
10479	1.3	3410	175	1	77	1.2	1	3210	20.8	8	76	32490	1780	2	1570	302	30	780	73	260	19	116	6	1	17	33.9	1292	1	1	1	25		1300	
10480	.4	5360	321	1	105	1.2	1	1870	3.9	8	51	33380	2660	2	2110	197	40	1520	57	160	24	103	4	1	28	30.0	568	1	1	2	49		1475	
10481	.1	5680	149	1	100	.8	1	3740	.1	3	13	17250	2590	4	3250	67	23	770	21	40	17	43	7	2	21	5.0	206	1	1	4	88		1100	
10482	.1	2900	160	1	73	.8	1	6020	.1	3	13	15050	1740	1	2650	91	26	800	30	30	16	42	14	2	12	3.6	269	1	1	4	102		980	
10483	.3	4020	249	1	89	1.2	1	4540	4.3	6	49	25470	2260	2	1950	92	40	890	80	230	22	76	9	1	16	21.8	811	1	1	4	81		1085	
10484	.1	2590	348	1	63	1.0	1	1710	3.0	6	33	23150	1530	1	760	62	41	830	130	80	18	76	4	1	13	13.9	546	1	1	5	126		1065	
10485	.3	2920	215	1	67	1.1	1	2810	8.9	7	55	24920	1700	1	780	104	36	670	86	370	21	82	5	1	14	21.5	819	1	1	2	46		1100	
10486	.1	2830	275	1	80	1.1	1	3740	1.3	4	25	22000	1720	2	1230	67	28	600	40	220	19	56	8	1	12	7.6	439	1	1	2	58		1470	
10487	.1	2880	732	1	73	1.0	1	6300	.1	3	9	28940	1900	2	2570	73	34	610	13	40	21	48	16	3	10	1.1	187	1	1	2	60		1900	
10488	.1	3730	757	1	52	1.1	1	2950	.1	3	7	36820	2120	1	1430	33	31	30	1	30	12	34	6	2	11	.5	112	1	1	3	82		1100	
10489	.1	3830	358	1	94	1.2	1	8200	.1	3	9	35590	2300	1	2940	130	23	30	1	40	14	35	22	3	14	1.5	127	1	1	3	73		985	
10490	.2	4120	176	1	106	1.0	1	9130	.1	2	10	19940	2350	2	2350	146	17	30	12	20	18	37	18	3	15	3.1	198	1	1	4	95		600	
10491	.1	4080	1853	1	117	1.4	1	3720	.1	3	7	31530	2400	2	1580	31	31	760	1	40	30	69	11	3	18	.7	182	1	1	4	92		1830	
10492	.1	2930	499	1	94	1.1	1	2590	.1	4	13	39880	1800	1	1100	34	44	730	15	10	16	46	7	1	12	3.0	230	1	1	3	72		910	
10493	.1	3500	262	1	102	1.3	1	2350	.1	2	8	24620	2070	2	1030	38	26	30	6	20	16	41	7	2	12	1.2	173	1	1	3	73		595	
10494	.1	3840	596	1	68	1.0	1	1810	.1	5	8	55760	2210	2	860	53	82	520	1	10	17	61	4	1	19	.7	133	1	1	3	81		1120	
10495	.1	4170	353	1	198	.8	1	580	.1	3	13	18730	2350	1	580	36	72	510	65	50	22	74	3	4	16	4.5	198	1	1	3	57		900	
10496	.3	5200	741	1	90	1.3	1	2560	3.5	10	82	39980	2740	2	720	108	77	1080	106	540	26	191	6	1	16	30.1	808	1	1	2	22		2165	
10497&10498	2.3	3310	791	1	111	1.4	1	2660	7.1	8	75	30550	1790	1	380	69	34	1050	74	590	15	191	6	1	10	24.9	817	1	1	1	26		1960	
10499	1.8	3760	1522	1	82	1.9	1	3210	5.6	11	89	38960	2130	1	410	62	24	980	63	740	15	249	6	1	11	26.1	779	1	1	1	28		2400	
10500	1.9	3490	1110	1	88	1.9	1	3060	20.7	9	97	35830	1980	1	400	73	31	710	80	730	11	287	6	1	10	26.9	1460	1	1	1	27		2550	
10501	1.5	4890	1905	3	121	2.5	1	2820	5.7	10	90	38240	2660	2	510	79	15	1540	47	610	21	286	7	1	12	31.0	751	1	1	1	31		2370	
10502	1.4	4170	1845	1	45	2.8	1	2190	10.8	13	95	39300	2340	1	450	83	48	960	117	410	21	911	6	1	11	30.5	921	1	1	1	23		3300	
10503	4.8	4400	1675	1	101	2.9	1	2920	14.2	10	101	35620	2420	2	490	77	45	1000	113	590	17	992	8	1	11	34.4	1092	1	1	1	26		3350	
10504	5.5	4550	1532	1	66	2.4	1	3300	6.6	9	63	29210	2390	1	490	63	17	740	47	750	9	286	7	1										

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

MIN-EN LABS — ICP REPORT  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ19+20  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SM PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
10515	8.1	3250	115	1	60	1.8	1	7160	7.2	8	74	29050	2150	1	1360	197	28	1100	60	430	26	137	17	1	24	17.8	588	1	1	2	65	960	
10516	1.5	3110	103	1	100	1.2	1	6360	8.2	5	46	17010	1870	1	820	121	35	1240	57	370	24	55	9	1	17	20.6	752	1	1	4	90	850	
10517	2.6	12370	46	1	92	1.0	1	56250	.1	11	60	54450	4610	9	4620	775	2	1990	8	17270	18	6	171	1	87	86.5	178	1	1	3	43	1200	
10518	1.4	12680	29	11	206	3.0	1	8600	.1	2	3	13150	5000	8	10000	191	4	100	1	30	24	13	32	3	42	2.2	116	4	1	4	76	19	
10519	.6	8670	30	9	77	2.4	2	12210	.1	2	5	13410	3550	5	10700	180	5	180	1	30	26	8	44	3	43	3.6	110	5	1	4	91	2	
10520	.7	11310	18	8	87	3.5	2	7830	.1	1	3	10270	4710	7	8750	161	2	60	1	30	24	7	25	3	45	1.9	117	5	1	3	51	2	
10521	.9	5330	25	6	56	2.6	1	11380	.1	1	3	7590	3260	2	7340	132	5	70	1	20	24	6	31	3	33	1.8	113	5	1	4	79	1	
10522	.7	9880	28	7	188	3.0	1	8820	.1	3	3	16160	3420	8	12530	231	4	150	1	40	20	6	33	3	36	4.6	112	6	1	4	80	1	
10523	.5	8350	28	7	114	3.8	1	7150	.1	4	5	17890	3480	6	12030	210	5	120	2	50	24	7	19	2	32	5.0	139	4	1	3	58	3	
10524	.7	5770	27	5	37	2.0	1	9900	.1	2	3	12770	1960	5	8150	206	4	240	1	40	24	5	22	3	28	2.3	116	5	1	5	119	1	
10525	.8	3510	23	4	57	1.2	1	10970	.1	2	2	10780	1170	2	7200	229	7	350	1	30	25	6	28	1	25	1.9	102	4	1	6	138	1	
10526	.7	7220	41	1	72	3.0	1	6690	.1	2	7	14890	3000	5	6800	234	21	140	1	70	20	8	16	5	26	2.0	149	3	1	3	75	320	
10527	2.2	10850	54	1	54	.9	1	11600	.1	13	76	73540	3350	7	4110	333	1	880	8	5120	13	5	46	1	48	91.0	212	1	1	3	61	1500	
10528	3.5	7490	90	1	43	1.0	1	24170	25.3	10	81	66160	3470	6	4690	592	12	1030	21	9350	14	12	99	1	42	80.9	1256	1	1	3	46	1700	
10529	3.8	3460	144	1	64	1.0	1	7290	42.1	11	100	53910	2230	3	3520	348	21	900	66	720	16	17	18	1	19	58.8	1862	1	1	2	36	1855	
10530	3.4	3650	117	1	86	.9	1	8420	47.7	11	96	50850	2220	4	4340	382	39	1040	62	1330	16	17	23	1	20	63.8	2147	1	1	2	28	2020	
10531	3.9	3750	114	1	38	1.0	1	3850	16.7	12	94	70800	2270	3	1470	185	30	1150	38	900	22	21	9	1	19	56.9	1083	1	1	2	44	1580	
10532	1.2	5430	260	2	115	1.6	1	3770	5.8	11	95	44650	2910	1	520	110	63	3300	134	1030	51	30	10	1	40	54.3	789	1	1	2	37	1055	
10533	.5	5870	207	1	102	1.8	1	5900	2.8	10	60	35340	3090	1	1790	184	43	2110	82	370	27	29	11	1	30	37.6	422	1	1	2	48	1335	
10534	.5	5730	132	1	95	2.0	1	17570	4.5	18	66	30480	3030	2	5020	239	28	1390	55	240	36	27	42	1	26	32.9	567	1	1	2	33	2300	
10535	2.4	3910	71	1	66	1.3	1	10700	1.7	6	38	21370	2030	1	4020	394	21	3130	47	140	18	23	27	1	29	25.8	329	1	1	4	86	1035	
10536	3.1	4240	184	1	75	1.4	1	8100	4.9	9	57	32690	2200	2	3090	233	35	2760	70	220	21	32	20	1	25	35.4	540	1	1	3	60	1140	
10537	4.6	5280	136	1	234	1.9	1	5980	3.6	9	54	28370	2870	2	2720	151	25	2040	46	260	22	25	16	1	27	23.2	487	1	1	2	35	910	
10538	5.0	3730	138	1	79	1.4	1	5660	1.8	7	38	23680	2060	2	2110	116	25	850	38	350	13	19	15	1	19	15.0	331	1	1	2	46	1010	
10539	5.4	2970	239	1	66	1.2	1	6960	.7	5	29	25190	1620	1	1270	86	26	2070	27	340	20	42	17	1	18	11.2	278	1	1	5	107	11500	
10540	.1	3030	402	6	66	1.8	1	12680	.1	4	8	46760	1860	1	1150	156	69	630	1	30	17	27	35	1	19	1.3	108	1	1	4	89	2	
10541	.8	4850	130	3	59	1.5	1	22630	.1	2	5	13760	1920	3	2790	277	17	90	6	20	16	19	93	1	20	3.8	145	3	1	4	90	3	
10542	.6	7950	71	4	76	2.5	1	7340	.1	2	4	12960	2660	6	4390	152	10	70	8	50	18	14	14	2	23	3.1	138	4	1	3	68	2	
10543	.3	9850	224	5	86	3.0	1	7360	.1	3	6	30520	3060	7	5640	172	20	70	8	50	30	29	13	1	25	2.2	159	3	1	4	88	1	
10544	.4	6500	101	4	68	2.0	1	11950	.1	2	4	18510	2140	5	4010	309	11	130	5	60	17	13	18	2	27	1.9	122	3	1	4	77	4	
10545	.4	6750	73	3	59	2.1	1	7160	.1	2	4	21210	1880	6	4150	151	11	260	1	30	12	9	11	2	28	1.7	114	4	1	5	115	2	
10546	.5	4240	124	3	37	1.3	1	12620	.1	3	5	28930	1260	4	2480	242	20	410	1	10	23	14	24	2	30	1.6	43	1	1	6	145	6	
10547	.1	3760	419	7	52	2.4	1	8150	.1	8	8	99520	2010	1	1030	100	34	180	1	10	57	37	11	1	30	.1	87	1	1	3	82	3	
10548	.1	4740	381	6	61	2.4	1	9740	.1	7	6	81600	2320	1	1360	129	22	160	1	10	42	26	15	1	29	.1	153	1	1	3	81	9	
10549	.4	9320	93	4	124	4.2	1	6300	.1	2	3	21600	3200	6	3710	117	8	120	1	20	16	10	14	2	34	1.0	95	4	1	3	58	4	
10550	.3	7450	80	4	66	2.5	1	5150	.1	3	3	25640	2270	6	3520	118	10	240	1	10	17	8	8	3	41	1.0	90	3	1	4	90	7	
10551	.4	4050	61	1	19	.8	2	5950	.1	2	3	18100	540	4	2470	113	7	430	1	10	12	5	9	2	27	1.0	82	3	1	5	115	2	
10552	.4	5340	24	1	49	1.1	1	4020	.1	2	3	12070	920	5	2980	108	4	440	1	20	15	4	6	3	39	1.2	105	5	1	6	133	2	
10553	.4	4160	92	2	48	1.4	1	3180	.1	2	3	14180	1370	3	1750	69	5	340	1	110	25	7	5	2	32	.8	95	4	1	4	86	4	
10554	.7	3500	140	2	39	1.1	1	7680	.1	2	5	19520	830	3	1730	124	8	460	1	120	22	9	14	1	28	.8	97	2	1	6	134	13	
10555	.8	10120	48	3	52	2.5	3	14290	.1	2	3	18920	1790	11	6270	428	3	290	1	20	23	5	32	5	43	2.0	115	7	1	5	99	6	
10556	.7	6220	36	2	58	1.8	1	9940	.1	2	4	13890	1720	5	3050	253	6	400	1	20	24	5	17	3									



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 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
 TELEPHONE (604) 980-5814 OR (604) 988-4524  
 FAX (604) 980-9621

**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Assay Certificate

1S-0124-RA7

Company: **COPELAND REBAGLIATI & ASSOC.**  
 Project: 9101  
 Attn: MARK REBAGLIATI

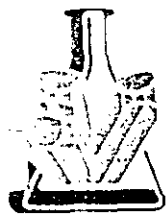
Date: JUL-18-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify* the following Assay of 22 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton
10479	.06	.002
10430	.03	.001
10431	.02	.001
10432	.01	.001
10433	.02	.001
10434	.02	.001
10435	.02	.001
10486	.02	.001
10487	.02	.001
10488	.03	.001
10489	.02	.001
10490	.03	.001
10491	.32	.009
10492	.16	.005
10493	.03	.001
10494	.37	.011
10495	.17	.005
10496	.24	.007
10497 & 10498	1.45	.042
10499	1.77	.052
10500	1.31	.038

Certified by 

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**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Geochemical Analysis Certificate

1S-0124-RG7

Company: COPELAND REBAGLIATI & ASSOC.  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-18-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

We hereby certify the following Geochemical Analysis of 22 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.

Sample Number	AG PPM
10479	2.5
10480	1.9
10481	1.4
10482	1.4
10483	1.9
10484	1.7
10485	1.9
10486	1.5
10487	1.5
10488	0.8
10489	0.9
10490	0.8
10491	1.3
10492	1.1
10493	0.9
10494	1.5
10495	1.1
10496	1.8
10497 & 10498	3.3
10499	2.9
10500	3.2

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FAX (604) 980-9621

**SMITHERS LAB.:**  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

Assay Certificate

1S-0124-RA8

Company: COPELAND REBAGLIATI & ASSOC.  
Project: 9101  
Attn: MARK REBAGLIATI

Date: JUL-18-91  
Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify* the following Assay of 23 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton
10501	1.81	.053
10502	2.29	.067
10503	2.10	.061
10504	2.05	.060
10505	1.19	.035
10506	6.58	.192
10507	14.24	.415
10508	3.66	.107
10509	2.81	.082
10510	3.62	.106
10511	.20	.006
10512	.04	.001
10513	.02	.001
10514	.03	.001
10515	.07	.002
10516	.01	.001
10517	.01	.001

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**SMITHERS LAB.:**  
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Geochemical Analysis Certificate

1S-0124-RG8

Company: **COPELAND REBAGLIATI & ASSOC.**  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-18-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

We hereby certify the following Geochemical Analysis of 23 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.

Sample Number	AG PPM
10501	2.7
0502	3.0
0503	5.9
10504	6.6
10505	22.7
10506	1600.0
10507	2890.0
0508	1160.0
10509	108.0
10510	42.1
0511	4.3
10512	3.3
10513	2.9
0514	2.9
10515	8.8
0516	2.3
10517	1.5

Certified by

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 FAX (604) 980-9621

**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Assay Certificate

1S-0124-XA1

Company: COPELAND REBAGLIATI & ASSOC.  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-18-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify the following Assay of 19 ROCK samples submitted JUL-17-91 by MARK REBAGLIATI.*

Sample Number	AG		<i>Positive</i>	<i>Replica</i>
	g/tonne	oz/ton	AG g/tonne	AG oz/ton
10505	24.6	.72		
10506	436.0	12.72		
10507	2600.0	75.83		
10508	382.0	11.14		
10509	103.8	3.03		
10510	44.4	1.30		
10511	3.6	.11		

*\* Metallic Silver Noted in sample, so rerun to check, use 1st + 2nd columns when reporting*

Certified by *[Signature]*

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 FAX (604) 980-9621

**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Metallic Assay Certificate

1S-0124-RM1

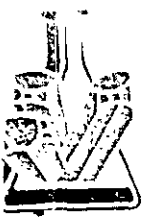
Company: COPELAND REBAGLIATI & ASSOC.  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-19-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.  
 2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

*We hereby certify the following Metallic Assay of 3 METALLIC samples submitted JUL-17-91 by MARK REBAGLIATI.*

Sample Number	Total		+120 M		Assay Value Au		Total Weight Au		Metallic Au		Net Au	
	Wt (g)	Wt (g)	+120(g/t)	-120(g/t)	+120(mg)	-120(mg)	(oz/ton)	(g/t)	(oz/ton)	(g/t)		
10506	928.09	40.09	2.13	5.64	0.085	5.008	0.003	0.09	0.160	5.49		
10507	1090.50	78.50	5.95	13.20	0.467	13.358	0.012	0.43	0.370	12.68		
10508	996.23	54.23	.99	3.87	0.054	3.646	0.002	0.05	0.108	3.71		

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 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
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 FAX (604) 980-9621

**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
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 FAX (604) 847-3005

Metallic Assay Certificate

1S-0124-RM2

Company: **COPELAND REBAGLIATI & ASSOC.**  
 Project: 9101  
 Attn: **MARK REBAGLIATI**

Date: **JUL-19-91**  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.  
 2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

*We hereby certify the following Metallic Assay of 3 METALLIC samples submitted JUL-17-91 by MARK REBAGLIATI.*

Sample Number	Total		+120 M		Assay Value Ag		Total Weight Ag		Metallic Ag		Net Ag	
	Wt (g)	+120 M Wt (g)	+120 (g/t)	-120 (g/t)	+120 (mg)	-120 (mg)	(oz/ton)	(g/t)	(oz/ton)	(g/t)	(oz/ton)	(g/t)
10506	928.09	40.09	209.66	418.10	8.405	371.273	0.264	9.06	11.932	409.10		
10507	1090.50	78.50	835.58	2634.85	65.593	2666.468	1.754	60.15	73.072	2505.33		
10508	996.23	54.23	179.40	391.40	9.729	368.699	0.285	9.77	11.079	379.86		

Certified by \_\_\_\_\_

MIN-EN LABORATORIES

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-57  
 SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 104B/9 CLAIM # : SIB 12, 35  
 LOCAL GRID : 8843.29 N / 9732.63 E GLOBAL GRID : 13221.47 N / 17765.70 E  
 LENGTH : 67.05 m INCLINATION : -58.5 degrees ELEVATION : 979.68 metres  
 OVERBURDEN : 6.10 m CASING : 6.10 metres AZIMUTH : 114.5 degrees  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/11 DATE DRILLED : 1991/07/11 CORE LOCATION: 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 10526-10564

SUMMARY LOG 91-57

From(m)	To(m)	Field Name (Legend)
0.00	6.10	CASING
6.10	17.00	SULPHIDIC MUDSTONE AND CHERT (3.5) +/- TURBIDITIC MUDSTONE (3.6)
17.00	18.50	TURBIDITIC MUDSTONE (3.6)
18.50	20.80	SULPHIDIC MUDSTONE AND CHERT (3.5)
20.80	25.00	TUFFACEOUS RHYOLITE (3.9) +/- BLACK CHERT - CHERT BRECCIA -SERICITE (3.3a)
25.00	54.70	TUFFACEOUS RHYOLITE -SERICITE (3.9a) +/- RHYOLITE FLOW (AUTOBRECCIATED) -SERICITE (3.8a)
54.70	63.00	CHERTY RHYOLITE FLOW (3.7)
63.00	67.05	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
67.05		END OF HOLE.

ANALYTICAL HIGHLIGHTS 91-57

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
No significant results.						

From(m)	To(m)	-----Description-----
0.00	6.10	CASING
6.10	17.00	SULPHIDIC MUDSTONE AND CHERT (3.5) +/- TURBIDITIC MUDSTONE (3.6)
17.00	18.50	TURBIDITIC MUDSTONE (3.6)
18.50	20.80	SULPHIDIC MUDSTONE AND CHERT (3.5)

#### Lithology

-Massive grey black, moderately to strongly graphitic mudstone. Compositional layers defined by pyritic laminations. This unit contains distinctive graded turbidite interbeds, the section generally youngs up-hole.

#### Structure

- 8.6 Bedding 31 degrees to c/a.
- 10.7 Bedding 12 degrees to c/a.
- 11.0 Bedding resumes orientation @ 30 degrees.
- 13.1 - 15.2 Subrounded partially ground core, possible mislatch, 1.7m of last core. Fault unlikely.
- 15.2 - 16.0 Broken core, strongly graphitic surfaces, weak carbonate vein injection, dip line(?) movement likely.
- 16.0 - 16.7 Weakly fractures sulphidic mudstone.
- 16.7 - 18.4 Lightly laminated, fine grained AE turbidite, well defined graded bed demonstrates up-hole younging.
- 17.0 Bedding 28 degrees to c/a.
- 18.4 - 20.8 Sulphidic mudstone, poorly bedded, Chaotic soft sediment deformation.
- 20.2 Bedding 61 degrees to c/a.

#### Mineralization

-Net sulphide content 12 - 15%. The interval does not contain a significant mineralized zone.

20.80    25.00    TUFFACEOUS RHYOLITE (3.9) +/- BLACK CHERT - CHERT BRECCIA -SERICITE (3.3a)

#### Lithology <20.8>-<39.6>

-Heterolithic clastic and volcanic breccias are dominant over the upper reaches of this interval. The bulk composition estimate (intermediate) is based on the colour index and the presence of pale to medium green lapilli sized fragments. These fragments are preferentially sericitized. The interval contains 5 - 8% disseminated to wispy pyritic lamellae, no SMS (possibly mean Atibnite, Massive Sulphide, M.A.) bands are present in this interval.

-24.8 Compositional layering 28 degrees to c/a

25.00    54.70    TUFFACEOUS RHYOLITE -SERICITE (3.9a) +/- RHYOLITE FLOW (AUTOBRECCIATED) -SERICITE (3.8a)

#### Lithology <39.6>-<54.7>

Pale grey green, strongly sericitized rhyolitic tuffs. Black clastic input <5% rock volume. Fine grained clastic layers define the major compositional layering. No significant detachments exist within this interval.

From(m)      To(m)      -----Description-----

Structure

- 30.4 Foliation 25 degrees to c/a
- 31.0 - 35.5 Monolithologic breccias, dominated by dark grey black chert fragments.
- 34.0 - 35.5 Onset of enhanced pyritization.
- 35.0 Foliation 30 degrees to c/a.
- 35.5 - 37.5 Partial failure, incomplete developed tectonic breccias. Significant offset unlikely, pyrite 20%.
- 37.5 - 39.6 Pale green-grey felsic to tuffaceous, autobrecciation weak. Rocks with weak clastic input.
- 37.7 Foliation 16 degrees to c/a.
- 41.1 Foliation 12 degrees to c/a.
- 42.8 Quartz vein orientation 45 degrees to c/a.
- 45.5 Foliation 22 degrees to c/a.
- 50.0 - 50.2 Anastomosing quartz veinlets.
- 54.4 Foliation 14 degrees to c/a.

Alteration, Mineralization

- Net pyrite content 5 - 8%; disseminated and loose aggregates. Calcite and quartz veinlets do not carry sulphide phases.

Note: "Intravolcanic Sediments component is more correctly a carbonaceous stylolitic cleavage. De-emphasize sedimentary input.

54.70      63.00      CHERTY RHYOLITE FLOW (3.7)

Lithology <54.7>-<64.3>

- The interval is distinguished by the massive fine grained to cherty appearance of this interval, it's diminished sericite-pyrite content, and by the absence of a stylolitic cleavage. Flow top breccias may be present at the onset of this interval.

Structure

- There are no significant faults in this interval.
- 56.0 - 56.2 Minor Foliation parallel quartz vein.
- 56.3 Foliation 38 degrees to c/a subparallels compositional layering.
- 61.2 Weak flow lamination 43 degrees to c/a.
- 61.6 10cm interval of white quartz veins with no alteration selvage 75 degrees to c/a.
- 62.4 Compositional layering 45 degrees to c/a.

Alteration

- 62.4 - 64.3 Weak increase in the overall color index 10 - 15, and concomitant increase in sericitization. Lower contact gradational.



From(m)	To(m)	-----Description-----
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63.00	67.05	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
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Lithology <64.3>-<67.05>

-A marked increase in penetrative fabric, increase in colour index and decrease in hardness defines the interval.

Structure, Mineralization

-There is no visible indication of mineralization, and no significant fault structures are present in this interval.

-64.3 Compositional layering 45 degrees to c/a

-65.4 Foliation 17 degrees to c/a.

67.05	END OF HOLE.	
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HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-57	10526	6.10	7.00	0.90	0.02	0.001	-	-	-	4.9	41	8	72	320	7	20	149	14890	6690
91-57	10527	7.00	8.00	1.00	0.02	0.001	-	-	-	5.7	54	5	54	1500	76	13	212	73540	11600
91-57	10528	8.00	9.00	1.00	0.02	0.001	-	-	-	6.4	90	12	43	1700	81	14	1256	66160	24170
91-57	10529	9.00	10.00	1.00	0.02	0.001	-	-	-	5.4	144	17	64	1855	100	16	1862	53910	7290
91-57	10530	10.00	11.00	1.00	0.02	0.001	-	-	-	5.2	117	17	86	2020	96	16	2147	50850	8420
91-57	10531	11.00	12.00	1.00	0.03	0.001	-	-	-	5.8	114	21	38	1580	94	22	1083	70800	3850
91-57	10532	12.00	13.00	1.00	0.04	0.001	-	-	-	2.6	260	30	115	1055	95	51	789	44650	3770
91-57	10533	13.00	15.20	2.20	0.01	0.001	-	-	-	2.0	207	29	102	1335	60	27	422	35340	5900
91-57	10534	15.20	16.00	0.80	0.01	0.001	-	-	-	1.7	132	27	95	2300	66	36	567	30480	17570
91-57	10535	16.00	17.00	1.00	0.02	0.001	-	-	-	1.5	71	23	66	1035	38	18	329	21370	10700
91-57	10536	17.00	18.00	1.00	0.01	0.001	-	-	-	2.0	184	32	75	1140	57	21	540	32690	8100
91-57	10537	18.00	19.00	1.00	0.02	0.001	-	-	-	1.5	136	25	234	910	54	22	487	28370	5980
91-57	10538	19.00	20.00	1.00	0.01	0.001	-	-	-	1.2	138	19	79	1010	38	13	331	23680	5660
91-57	10539	20.00	21.00	1.00	0.02	0.001	-	-	-	1.4	239	42	66	11500	29	20	278	25190	6960
91-57	10540	21.00	23.00	2.00	-	-	2	-	-	0.1	402	27	66	-	8	17	108	46760	12680
91-57	10541	23.00	25.00	2.00	-	-	3	-	-	0.8	130	19	59	-	5	16	145	13760	22630
91-57	10542	25.00	27.00	2.00	-	-	2	-	-	0.6	71	14	76	-	4	18	138	12960	7340
91-57	10543	27.00	29.00	2.00	-	-	1	-	-	0.3	224	29	86	-	6	30	159	30520	7360
91-57	10544	29.00	31.00	2.00	-	-	4	-	-	0.4	101	13	68	-	4	17	122	18510	11950
91-57	10545	31.00	33.00	2.00	-	-	2	-	-	0.4	73	9	59	-	4	12	114	21210	7160
91-57	10546	33.00	34.50	1.50	-	-	6	-	-	0.5	124	14	37	-	5	23	43	28930	12620
91-57	10547	34.50	35.25	0.75	-	-	3	-	-	0.1	419	37	52	-	8	57	87	99520	8150
91-57	10548	35.25	36.00	0.75	-	-	9	-	-	0.1	381	26	61	-	6	42	153	81600	9740
91-57	10549	36.00	38.00	2.00	-	-	4	-	-	0.4	93	10	124	-	3	16	95	21600	6300
91-57	10550	38.00	40.00	2.00	-	-	7	-	-	0.3	80	8	66	-	3	17	90	25640	5150
91-57	10551	40.00	42.00	2.00	-	-	2	-	-	0.4	61	5	19	-	3	12	82	18100	5950
91-57	10552	42.00	44.00	2.00	-	-	2	-	-	0.4	24	4	49	-	3	15	105	12070	4020
91-57	10553	44.00	46.00	2.00	-	-	4	-	-	0.4	92	7	48	-	3	25	95	14180	3180
91-57	10554	46.00	48.00	2.00	-	-	13	-	-	0.7	140	9	39	-	5	22	97	19520	7680
91-57	10555	48.00	50.00	2.00	-	-	6	-	-	0.8	48	5	52	-	3	23	115	18920	14290
91-57	10556	50.00	52.00	2.00	-	-	17	-	-	0.7	36	5	58	-	4	24	137	13890	9940
91-57	10557	52.00	54.00	2.00	-	-	1	-	-	0.9	23	4	69	-	3	24	107	12120	9370
91-57	10558	54.00	56.00	2.00	-	-	1	-	-	1.2	22	4	70	-	3	26	97	9640	26850
91-57	10559	56.00	58.00	2.00	-	-	3	-	-	0.9	28	4	70	-	3	22	102	10900	12210
91-57	10560	58.00	60.00	2.00	-	-	5	-	-	0.8	26	5	76	-	3	24	122	11110	10420
91-57	10561	60.00	62.00	2.00	-	-	2	-	-	1.0	29	5	76	-	6	28	103	10410	11750
91-57	10562	62.00	64.00	2.00	-	-	2	-	-	1.0	23	4	68	-	6	20	105	8270	15320
91-57	10563	64.00	66.00	2.00	-	-	1	-	-	0.8	27	5	85	-	5	25	119	11230	4400
91-57	10564	66.00	67.05	1.05	-	-	9	-	-	0.9	28	7	53	-	5	21	112	9530	3250

COMP: COPELAND, REBAGLIATI & ASSOC.

PROJ: 9101

ATTN: M. REBAGLIATI

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

(604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ19+2

DATE: 91/10/1

\* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
10515	8.1	3250	115	1	60	1.8	1	7160	7.2	8	74	29050	2150	1	1360	197	28	1100	60	430	26	137	17	1	24	17.8	588	1	1	2	65	960	
10516	1.5	3110	103	1	100	1.2	1	6360	8.2	5	46	17010	1870	1	820	121	35	1240	57	370	24	55	9	1	17	20.6	752	1	1	4	90	850	
10517	2.6	12370	46	1	92	1.0	1	56250	.1	11	60	54450	4610	9	4620	775	2	1990	8	17270	18	6	171	1	87	86.5	178	1	1	3	43	1200	
10518	1.4	12680	29	11	206	3.0	1	8600	.1	2	3	13150	5000	8	10000	191	4	100	1	30	24	13	32	3	42	2.2	116	4	1	4	76	19	
10519	.6	8670	30	9	77	2.4	2	12210	.1	2	5	13410	3550	5	10700	180	5	180	1	30	26	8	44	3	43	3.6	110	5	1	4	91	2	
10520	.7	11310	18	8	87	3.5	2	7830	.1	1	3	10270	4710	7	8750	161	2	60	1	30	24	7	25	3	45	1.9	117	5	1	3	51	2	
10521	.9	5330	25	6	56	2.6	1	11380	.1	1	3	7590	3260	2	7340	132	5	70	1	20	24	6	31	3	33	1.8	113	5	1	4	79	1	
10522	.7	9880	28	7	188	3.0	1	8820	.1	3	3	16160	3420	8	12530	231	4	150	1	40	20	6	33	3	36	4.6	112	6	1	4	80	1	
10523	.5	8350	28	7	114	3.8	1	7150	.1	4	5	17890	3480	6	12030	210	5	120	2	50	24	7	19	2	32	5.0	139	4	1	3	58	3	
10524	.7	5770	27	5	37	2.0	1	9900	.1	2	3	12770	1960	5	8150	206	4	240	1	40	24	5	22	3	28	2.3	116	5	1	5	119	1	
10525	.8	3510	23	4	57	1.2	1	10970	.1	2	2	10780	1170	2	7200	229	7	350	1	30	25	6	28	1	25	1.9	102	4	1	6	138	1	
10526	.7	7220	41	1	72	3.0	1	6690	.1	2	7	14890	3000	5	6800	234	21	140	1	70	20	8	16	5	26	2.0	149	3	1	3	75	320	
10527	2.2	10850	54	1	54	.9	1	11600	.1	13	76	73540	3350	7	4110	333	1	880	8	5120	13	5	46	1	48	91.0	212	1	1	3	61	1500	
10528	3.5	7490	90	1	43	1.0	1	24170	25.3	10	81	66100	3470	6	4690	592	12	1030	21	9350	14	12	99	1	42	80.9	1256	1	1	3	46	1700	
10529	3.8	3460	144	1	64	1.0	1	7290	42.1	11	100	53910	2230	3	3520	348	21	900	66	720	16	17	18	1	19	58.8	1862	1	1	2	36	1855	
10530	3.4	3650	117	1	86	.9	1	8420	47.7	11	96	50850	2220	4	4340	382	39	1040	62	1330	16	17	23	1	20	63.8	2147	1	1	2	28	2020	
10531	3.9	3750	114	1	38	1.0	1	3850	16.7	12	94	70800	2270	3	1470	185	30	1150	38	900	22	21	9	1	19	56.9	1083	1	1	2	44	1580	
10532	1.2	5430	260	2	115	1.6	1	3770	5.8	11	95	44650	2910	1	520	110	63	3300	134	1030	51	30	10	1	40	54.3	789	1	1	2	37	1055	
10533	.5	5870	207	1	102	1.8	1	5900	2.8	10	60	35340	3090	1	1790	184	43	2110	82	370	27	29	11	1	30	37.6	422	1	1	2	48	1335	
10534	.5	5730	132	1	95	2.0	1	17570	4.5	18	66	30480	3030	2	5020	239	28	1390	55	240	36	27	42	1	26	32.9	567	1	1	2	33	2300	
10535	2.4	3910	71	1	66	1.3	1	10700	1.7	6	38	21370	2030	1	4020	394	21	3130	47	140	18	23	27	1	29	25.8	329	1	1	4	86	1035	
10536	3.1	4240	184	1	75	1.4	1	8100	4.9	9	57	32690	2200	2	3090	233	35	2760	70	220	21	32	20	1	25	35.4	540	1	1	3	60	1140	
10537	4.6	5280	136	1	234	1.9	1	5980	3.6	9	54	28370	2870	2	2720	151	25	2040	46	260	22	25	16	1	27	23.2	487	1	1	2	35	910	
10538	5.0	3730	138	1	79	1.4	1	5660	1.8	7	38	23680	2060	2	2110	116	25	850	38	350	13	19	15	1	19	15.0	331	1	1	2	46	1010	
10539	5.4	2970	239	1	66	1.2	1	6960	.7	5	29	25190	1620	1	1270	86	26	2070	27	340	20	42	17	1	18	11.2	278	1	1	5	107	11500	
10540	.1	3030	402	6	66	1.8	1	12680	.1	4	8	46760	1860	1	1150	156	69	630	1	30	17	27	35	1	19	1.3	108	1	1	4	89	2	
10541	.8	4850	130	3	59	1.5	1	22630	.1	2	5	13760	1920	3	2790	277	17	90	6	20	16	19	93	1	20	3.8	145	3	1	4	90	3	
10542	.6	7950	71	4	76	2.5	1	7340	.1	2	4	12960	2660	6	4390	152	10	70	8	50	18	14	14	2	23	3.1	138	4	1	3	68	2	
10543	.3	9850	224	5	86	3.0	1	7360	.1	3	6	30520	3060	7	5640	172	20	70	8	50	30	29	13	1	25	2.2	159	3	1	4	88	1	
10544	.4	6500	101	4	68	2.0	1	11950	.1	2	4	18510	2140	5	4010	309	11	130	5	60	17	13	18	2	27	1.9	122	3	1	4	77	4	
10545	.4	6750	73	3	59	2.1	1	7160	.1	2	4	21210	1880	6	4150	151	11	260	1	30	12	9	11	2	28	1.7	114	4	1	5	115	2	
10546	.5	4240	124	3	37	1.3	1	12620	.1	3	5	28930	1260	4	2480	242	20	410	1	10	23	14	24	2	30	1.6	43	1	1	6	145	6	
10547	.1	3760	419	7	52	2.4	1	8150	.1	8	8	99520	2010	1	1030	100	34	180	1	10	57	37	11	1	30	.1	87	1	1	3	82	3	
10548	.1	4740	381	6	61	2.4	1	9740	.1	7	6	81600	2320	1	1360	129	22	160	1	10	42	26	15	1	29	.1	153	1	1	3	81	9	
10549	.4	9320	93	4	124	4.2	1	6300	.1	2	3	21600	3200	6	3710	117	8	120	1	20	16	10	14	2	34	1.0	95	4	1	3	58	4	
10550	.3	7450	80	4	66	2.5	1	5150	.1	3	3	25640	2270	6	3520	118	10	240	1	10	17	8	8	3	41	1.0	90	3	1	4	90	7	
10551	.4	4050	61	1	19	.8	2	5950	.1	2	3	18100	540	4	2470	113	7	430	1	10	12	5	9	2	27	1.0	82	3	1	5	115	2	
10552	.4	5340	24	1	49	1.1	1	4020	.1	2	3	12070	920	5	2980	108	4	440	1	20	15	4	6	3	39	1.2	105	5	1	6	133	2	
10553	.4	4160	92	2	48	1.4	1	3180	.1	2	3	14180	1370	3	1750	69	5	340	1	110	25	7	5	2	32	.8	95	4	1	4	86	4	
10554	.7	3500	140	2	39	1.1	1	7680	.1	2	5	19520	830	3	1730	124	8	460	1	120	22	9	14	1	28	.8	97	2	1	6	134	13	
10555	.8	10120	48	3	52	2.5	3	14290	.1	2	3	18920	1790	11	6270	428	3	290	1	20	23	5	32	5	43	2.0	115	7	1	5	99	6	
10556	.7	6220	36	2	58	1.8	1	9940	.1	2	4	13890	1720	5	3050	253	6	400	1	20	24	5	17	3	40	1.5	137	5	1	6	134	17	
10557	.9	10130	23	2	69	2.8	1	9370	.1	2	3	12120	2610	8	6390	176	2	270	1	20	24	4	15	5	46	1.7	107	6	1	4	76	1	
10558	1.2	7850	22	3	70	2.4	2	26850	.1	1	3	9640	2610	6	5660	576	3	250	1	40	26	4	41	3	42	2.5	97	5	1	4	85	1	
10559	.9	6670	28	3	70	3.0	1	12210	.1	1	3	10900	2900	4	8080	214	2	150	1	30	22	4	27	4	26	1.9	102	4	1	4	76	3	
10560	.8	9820	26	3	76	3.0	2	10420	.1	1	3	11110	3180	9	9170	277	2	150	1	40	24	5	21	4	30	1.9	122	5	1	3	61	5	
10561	1.0	12270	29	9	76	2.3	2	11750	.1	2	6	10410	3410	11	8570	173	5	330	1	20	28	5	22	4	47	2.6	103	6	1	6	135	2	
10562	1.0	9340</																															



**LABORATORIES**  
(DIVISION OF ASSAYERS CORP.)

91-57

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:  
105 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
FAX (604) 980-9621

**SMITHERS LAB.:**  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

Geochemical Analysis Certificate

1S-0124-RG9

Company: COPELAND REBAGLIATI & ASSOC.  
Project: 9101  
Attn: MARK REBAGLIATI

Date: JUL-18-91  
Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify the following Geochemical Analysis of 14 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.*

Sample Number	AG PPM
10526	4.9
10527	5.7
10528	6.4
10529	5.4
10530	5.2
10531	5.8
10532	2.6
10533	2.0
10534	1.7
10535	1.5
10536	2.0
10537	1.5
10538	1.2
10539	1.4



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3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

Assay Certificate

1S-0124-RA9

Company: COPELAND REBAGLIATI & ASSOC.  
Project: 9101  
Attn: MARK REBAGLIATI

Date: JUL-18-91  
Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.

*We hereby certify* the following Assay of 14 ROCK samples submitted JUL-15-91 by RICHARD HASLINGER.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton
10526	.02	.001
10527	.02	.001
10528	.02	.001
10529	.02	.001
10530	.02	.001
10531	.03	.001
10532	.04	.001
10533	.01	.001
10534	.01	.001
10535	.02	.001
10536	.01	.001
10537	.02	.001
10538	.01	.001
10539	.02	.001



MIN-EN  
**ENVIRONMENTS  
 LABORATORIES**  
 (DIVISION OF ASSAYERS CORP.)

91-57

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
 CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
 705 WEST 15TH STREET  
 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
 TELEPHONE (604) 980-5814 OR (604) 988-4524  
 FAX (604) 980-9621

**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Assay Certificate

1S-0165-RA1

Company: COPELAND REBAGLIATI & ASSOC.  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-22-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., BC  
 2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

We hereby certify the following Assay of 30 ROCKS samples submitted JUL-18-91 by RICHARD HASLINGER.

Sample Number	AU g/tonne	AU oz/ton
10565	.01	.001
10566	.01	.001
10567	.01	.001
10568	.01	.001
10569	.02	.001
10570	.01	.001
10571	.01	.001
10572	.02	.001
10573	.01	.001
10574	.01	.001
10575	.02	.001
10576	.01	.001
10577	.16	.005
10578	.10	.003
10579	.01	.001
10580	.02	.001
10581	.04	.001
10582	.02	.001
10583	.01	.001
10584	.01	.001
10585	.02	.001
10586	.01	.001
10587	.01	.001
10588	.02	.001
10589	.01	.001
10590	.01	.001
10591	.01	.001
10592	.03	.001
10593	.01	.001

Certified by

MIN-EN LABORATORIES

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-58  
 SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 104B/9 CLAIM # : SIB 12, 35  
 LOCAL GRID : 8819.92 N / 9706.13 E GLOBAL GRID : 13212.53 N / 17731.52 E  
 LENGTH : 109.70 m INCLINATION : -45.0 degrees ELEVATION : 976.89 metres  
 OVERBURDEN : 4.00 m CASING : 4.00 metres AZIMUTH : 115.5 degrees  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/03 DATE DRILLED : 1991/07/29 CORE LOCATION: 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 10565-10634

SUMMARY LOG 91-58

From(m)	To(m)	Field Name (Legend)
0.00	4.00	CASING
4.00	26.00	SULPHIDIC MUDSTONE AND CHERT (3.5), TURBIDITIC MUDSTONE (3.6) 14.0 - 17.5 TURBIDITIC MUDSTONE (3.6)
26.00	27.00	BLACK CHERT - CHERT BRECCIA (3.3) +/- SULPHIDIC MUDSTONE AND CHERT (3.5)
27.00	31.00	BLACK CHERT - CHERT BRECCIA (3.3)
31.00	40.70	TUFFACEOUS RHYOLITE (3.9)
40.70	54.90	CHERTY RHYOLITIC FLOW (3.7)
54.90	58.50	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
58.50	73.00	RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
73.00	81.00	BLACK CHERT - CHERT BRECCIA (3.3) +/- GREEN-BLACK RHYOLITIC FLOW (3.2)
81.00	84.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
84.00	88.00	BLACK CHERT - CHERT BRECCIA (3.3) +/- TURBIDITIC MUDSTONE (3.6)
88.00	93.00	BLACK CHERT - CHERT BRECCIA (3.3)
93.00	100.50	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
100.50	104.00	CHERTY RHYOLITIC FLOW (3.7)
104.00	109.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
109.00	109.70	RHYODACITIC FRAGMENTAL (3.0)
109.70		END OF HOLE.

ANALYTICAL HIGHLIGHTS 91-58

From(m)	To(m)	Length(m)	Au g/t	Au Oz/ton	Ag g/t	Ag Oz/ton	% Pb	% Zn
89.00	95.00	6.00	1.02	0.028	3.2	0.09		

From(m) To(m) -----Description-----

0.00 4.00 CASING  
 4.00 26.00 SULPHIDIC MUDSTONE AND CHERT (3.5), TURBIDITIC MUDSTONE (3.6)  
 14.0 - 17.5 TURBIDITIC MUDSTONE (3.6)

Lithology <4.0>-<23.6>

-Black, moderately hard, laminations and banding common, primary bedding features noted, with younging of units up the hole (slump features, fining up, load structures).  
 -Laminations are from <1 - 30mm, pyrite (syngenetic) common in bands; and makes-up 0.5 - 1.5% of the unit. Some sections are carbonaceous.

Structure

-Broken core from 12.2 - 19.0, fault zone from 17.4 - 19.0 metres; with gouge @ 17.6, 18.3 and 18.9 metres. Bedding dip average is 48 degrees above the fault and 58 degrees below the fault. Lower 1.5m of unit is foliated (40 degrees) to the contact. Contact is conformable; with volcanic component increasing and colour lightening up.

Alteration

-The entire zone appears to have either an albitic or siliceous alteration imprint.

26.00 27.00 BLACK CHERT - CHERT BRECCIA (3.3) +/- SULPHIDIC MUDSTONE AND CHERT (3.5)  
 27.00 31.00 BLACK CHERT - CHERT BRECCIA (3.3)

Lithology <23.6>-<35.7>

-Medium to dark grey with lighter (fragmental) sections, with a gradual change to pure volcanic components. Fragmental and tuffaceous textures dominate. Percentage of framework and clast size increase toward lower contact. 20 - 30% clastic debris (shaly pieces, mudstone clasts, argillaceous matrix) from 23.6 - 28.0 metres. Decreases to <5% from 33.0 - 35.7 metres.

Structure

-This unit is marked by a higher % of syngenetic pyrite. Weak foliation common with core axis angles from 45 - 55 degrees.

Alteration

-Alterations include weak sericitization, with some volcanic fragments sericitized and silicified. Imprint by an albitic? or siliceous alteration: moderate.

Mineralization

-Unit average from 0.75 - 1% speckled pyrite.  
 -Pyrite rich zone from 24.1 - 25.2 metres - 1.1m of 10 - 15% pyrite in a volcaniclastic hybrid rock. Pyrite mineralization appears to be syngenetic in nature.



From(m) To(m) -----Description-----

31.00 40.70 TUFFACEOUS RHYOLITE (3.9)

Lithology <35.7>-<40.7>

-Light greenish yellow; 30 - 45% clasts (moderately sericitized), with a darker green matrix; small scale textural variations common. From 39.0 - 40.3 there is a felsic breccia with stronger siliceous alteration. Only the upper 1.0 metres of unit has appreciable pyrite (0.25%).

Structure

-Weak to very weak foliation, with c/a angles of 55 - 60 degrees.

Alteration

-Sericitic alteration: weak to moderate, albitic? overprint.

40.70 54.90 CHERY RHYOLITIC FLOW (3.7)

Lithology

-Mixture of rhyolitic breccias (flow top breccia?), fragmentals, and thin discrete flows and/or cherty zones. Cherty zones at 41.6m (15cm), 45.3m (10cm), 50.2m (10cm), 52.8m (10cm), 54.2 - 54.9m (lower contact). Greyish to greyish blue, very hard, due to rock type and degree of alteration (albitic?).

Alteration

-Isolated weak to moderate sericitic sections, which may be ash tuff sections that have more feldspathic material.

Structure

-Generally devoid of any structural records.  
 -Semi massive, with 1 - 3% vein material (quartz - feldspar veins).  
 -Sharp lower contact conformable.

Mineralization

-Isolated zones with epigenetic pyrite, related to the veins. Veins criss-cross the core, and usually are from 1 - 3mm. This veins may account for the degree of alteration in this unit.

54.90 58.50 TUFFACEOUS RHYOLITE -SERICITE (3.9a)

Lithology

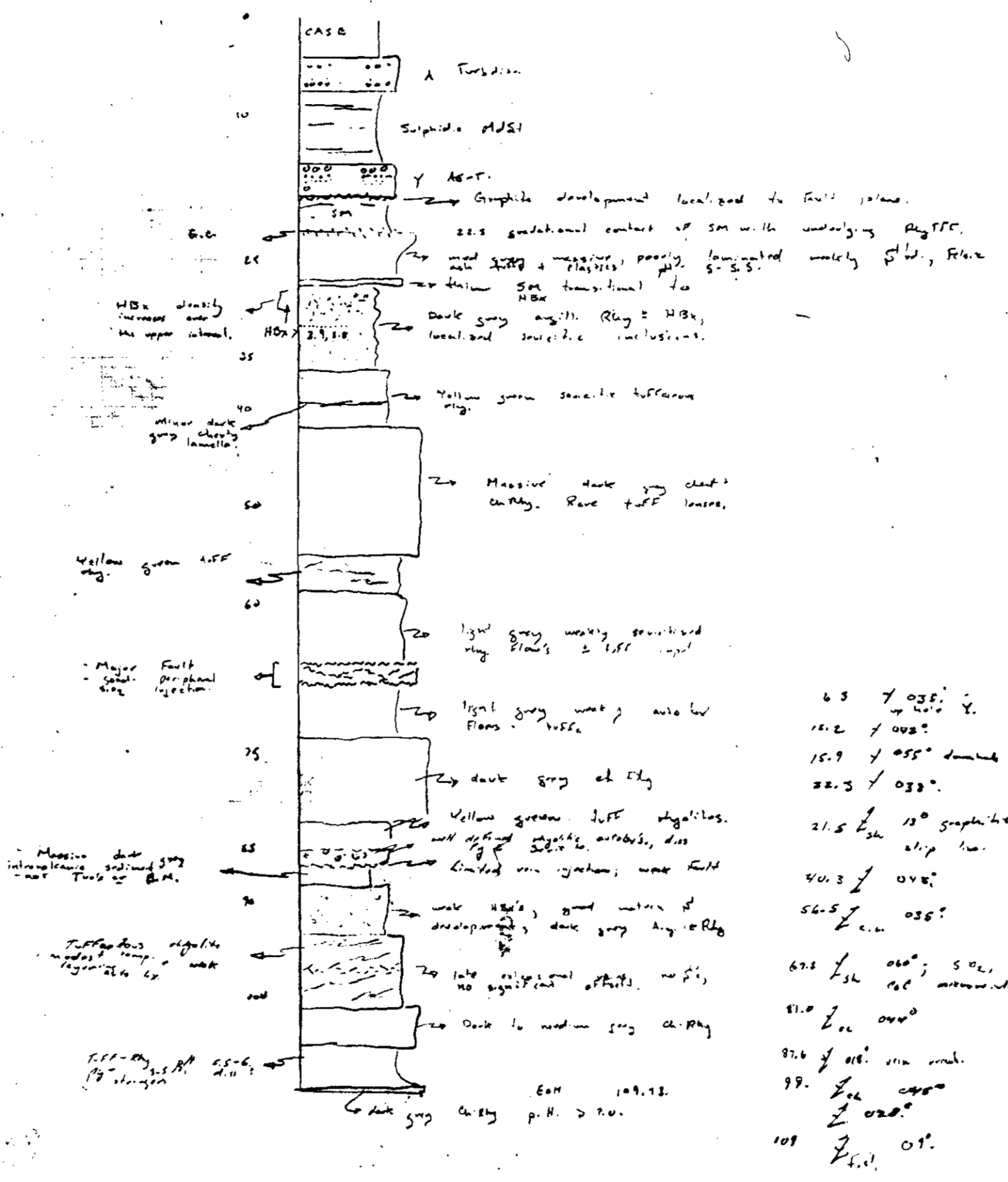
-Greenish throughout, very fine grained, glassy textures; probably an ash rich tuff.

Structure, Alteration

-Sericitized, weakly foliated (40 - 47 degrees to c/a) with the siliceous or albitic overprint.  
 -Lower portions more fragments (so it fines up / younging up section)  
 -Contacts conformable but sharp <3cm change to new unit.

From(m)	To(m)	Description
58.50	73.00	RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
		<p>Lithology &lt;58.5&gt;-&lt;69.3&gt;            -Rhyolitic flow; more uniform in texture, hard, grey; veined throughout. Massive, blocky textures; partially fractured, with criss-crossing hairline to 1mm veinlets throughout, 2 - 3% of rock is vein material. Only trace pyrite noted on some fracture surfaces.</p> <p>Structure            -Fault zone @ 65.5 - 68.0m. Main gouge zone is @ 65.7 - 66.0m. (Probably a normal high angle fault?). Most fracturing is the hanging wall face. Some sections of fault are recemented.            -Lower contact is marked by change to a fragmental unit, contact angle @ 80 degrees to c/a.</p> <p>Alteration            -Unit is hard to very hard due to the rock and the degree of alteration.</p>
73.00	81.00	BLACK CHERT - CHERT BRECCIA (3.3) +/- GREEN-BLACK RHYOLITIC FLOW (3.2)
81.00	84.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
		<p>Lithology &lt;69.3&gt;-&lt;85.9&gt;            -Dominantly a fragmental volcanic: lapilli and ash tuff, but some breccia and flow material is present below 75.0m. Also some layered (beds) may be more intermediate in composition, marked by sericitized, foliated zones.            -Unit is medium to dark grey, other colour related to other rock types (e.g. flow-breccia material). Foliations 40 - 45 degrees are common.</p> <p>Alteration            -Dominated by the later siliceous albitic? imprint. Devoid of pyritic material.</p> <p>Structure            -Small fault zone from 81.4 - 83.0m. Gouge @ 82.1 and 83.0 metres. Fractured rock common from 81.4 - 83.6m</p> <p>Mineralization            -Pyritic (1 - 1.5%, &lt;1.0mm cubic pyrite) from 83.8 - 85.9m</p>
84.00	88.00	BLACK CHERT - CHERT BRECCIA (3.3) +/- TURBIDITIC MUDSTONE (3.6)
		<p>Lithology &lt;85.9&gt;-&lt;91.0&gt;            -Dark grey, mixture 10 - 20% clastic material (mudstone) with 80% fragmental volcanic material, closer to the felsic composition window.</p> <p>Structure            -Sheared, moderate foliations of 18 - 24 degrees to c/a from 88.0 - 91.0 metres. Upper contact may be unconformable, with vein and graphitic material over 50cm. Lower contact is conformable.</p> <p>Mineralization            -Unit is marked by isolated quartz - carbonate vein material and a 0.25 - 0.5% of pyrite presence.</p>

From(m)	To(m)	Description
88.00	93.00	BLACK CHERT - CHERT BRECCIA (3.3)
		<p>Lithology &lt;91.0&gt;-&lt;97.5&gt;</p> <p>-Felsic to intermediate composition. Medium grey, unsorted texture caused by the brecciation or mode of deposition. 50% clasts, 50% matrix, semi-massive texture, very weak chlorite alteration, siliceous or albitic overprint.</p> <p>Mineralization</p> <p>-Unit has both cubic pyrite and smaller masses of wispy pyrite. From 0.5 - 0.75% pyrite.</p>
93.00	100.50	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
100.50	104.00	CHERTY RHYOLITIC FLOW (3.7)
104.00	109.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
109.00	109.70	RHYODACITIC FRAGMENTAL (3.0)
		<p>Lithology &lt;97.5&gt;-&lt;109.7&gt;</p> <p>-Appears to be a rhyolitic breccia (flow) volcanic, with some isolated fragmental textured intervals.</p> <p>-Very similar to the 40.7 - 54.9 metre interval.</p> <p>-From 105.0 - 107.5 the rock type is felsic to intermediate, and the brecciated fragments are sericitized. Contacts are vague.</p> <p>-Unit is semi-massive, with the relict silica or later alteration.</p>
109.70		END OF HOLE.



## AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

## - SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91-58	10565	4.00	5.00	1.00	0.01	0.001	-	-	-	0.6	47	9	110	290	37	20	93	31360	7340	
91-58	10566	5.00	6.00	1.00	0.01	0.001	-	-	-	1.4	56	16	237	565	33	24	108	21800	5280	
91-58	10567	6.00	7.00	1.00	0.01	0.001	-	-	-	1.6	79	27	124	1050	57	24	412	31010	8210	
91-58	10568	7.00	8.00	1.00	0.01	0.001	-	-	-	1.4	74	24	146	1100	52	25	554	33110	6120	
91-58	10569	8.00	9.00	1.00	0.02	0.001	-	-	-	1.5	74	27	108	1265	53	30	513	31280	17470	
91-58	10570	9.00	10.00	1.00	0.01	0.001	-	-	-	1.3	66	30	123	1610	60	29	644	31460	9400	
91-58	10571	10.00	11.00	1.00	0.01	0.001	-	-	-	1.3	70	33	112	1455	66	32	368	34310	9530	
91-58	10572	11.00	12.00	1.00	0.02	0.001	-	-	-	2.0	78	44	118	1265	85	32	568	38250	12820	
91-58	10573	12.00	13.00	1.00	0.01	0.001	-	-	-	1.9	79	54	145	1480	77	24	375	39050	17940	
91-58	10574	13.00	14.00	1.00	0.01	0.001	-	-	-	2.6	99	76	116	1545	88	28	626	39780	6860	
91-58	10575	14.00	15.00	1.00	0.02	0.001	-	-	-	2.1	107	80	124	1685	85	32	1077	36120	4770	
91-58	10576	15.00	16.00	1.00	0.01	0.001	-	-	-	1.5	75	71	99	1255	69	20	644	35680	8530	
91-58	10577	16.00	17.00	1.00	0.16	0.005	-	-	-	1.1	76	72	107	1120	55	19	712	28980	10450	
91-58	10578	17.00	18.00	1.00	0.10	0.003	-	-	-	1.9	322	100	143	1800	83	29	527	42790	19870	
91-58	10579	18.00	19.00	1.00	0.01	0.001	-	-	-	1.9	134	93	85	1700	85	48	475	42410	16150	
91-58	10580	19.00	20.00	1.00	0.02	0.001	-	-	-	1.2	105	95	89	1795	82	36	484	42150	6310	
91-58	10581	20.00	21.00	1.00	0.04	0.001	-	-	-	1.9	148	125	59	2120	138	57	1628	41050	4210	
91-58	10582	21.00	22.00	1.00	0.02	0.001	-	-	-	2.1	190	119	114	3000	130	50	1643	37640	5190	
91-58	10583	22.00	23.00	1.00	0.01	0.001	-	-	-	1.1	201	56	100	1250	28	34	256	25210	1810	
91-58	10584	23.00	23.60	0.60	0.01	0.001	-	-	-	0.9	120	31	103	900	13	29	213	17510	1800	
91-58	10585	23.60	24.40	0.80	0.02	0.001	-	-	-	0.4	104	19	78	780	9	16	99	32140	5020	
91-58	10586	24.40	25.20	0.80	0.01	0.001	-	-	-	0.5	183	20	66	820	7	24	75	35670	7370	
91-58	10587	25.20	26.00	0.80	0.01	0.001	-	-	-	0.8	184	16	109	885	6	17	95	19900	10390	
91-58	10588	26.00	27.00	1.00	0.02	0.001	-	-	-	0.9	196	28	175	680	10	29	189	17830	7260	
91-58	10589	27.00	28.00	1.00	0.01	0.001	-	-	-	1.0	87	20	127	585	9	23	170	13040	7620	
91-58	10590	28.00	29.00	1.00	0.01	0.001	-	-	-	0.9	82	15	227	625	11	33	176	14500	7060	
91-58	10591	29.00	30.00	1.00	0.01	0.001	-	-	-	0.8	55	8	91	380	10	25	156	9480	5480	
91-58	10592	30.00	31.00	1.00	0.03	0.001	-	-	-	0.7	87	9	88	425	9	22	159	17760	4450	
91-58	10593	31.00	32.00	1.00	0.01	0.001	-	-	-	1.1	82	12	102	395	8	26	155	14640	2780	
91-58	10594	32.00	33.00	1.00	-	-	17	-	-	0.5	71	13	62	430	7	32	131	13900	4090	
91-58	10595	33.00	34.20	1.20	-	-	6	-	-	0.5	41	8	52	345	10	26	157	8700	4310	
91-58	10596	34.20	35.70	1.50	-	-	14	-	-	0.6	56	12	66	435	7	28	160	12070	3050	
91-58	10597	35.70	37.00	1.30	-	-	4	-	-	0.3	49	10	80	695	5	30	118	16740	3660	
91-58	10598	37.00	39.00	2.00	-	-	9	-	-	0.6	55	15	83	550	6	27	156	14350	6350	
91-58	10599	39.00	41.00	2.00	-	-	2	-	-	0.5	27	5	97	400	5	25	105	13320	6460	
91-58	10600	41.00	43.00	2.00	-	-	7	-	-	0.8	12	4	203	210	5	19	106	8110	13340	
91-58	10601	43.00	45.00	2.00	-	-	3	-	-	0.5	24	3	44	215	5	20	89	7160	4440	
91-58	10602	45.00	47.00	2.00	-	-	8	-	-	0.4	30	4	36	230	6	17	109	8330	3790	
91-58	10603	47.00	49.00	2.00	-	-	2	-	-	0.6	186	5	44	140	6	41	108	9480	5980	
91-58	10604	49.00	51.00	2.00	-	-	5	-	-	0.5	25	3	40	165	4	26	83	8000	5950	
91-58	10605	51.00	53.00	2.00	-	-	1	-	-	0.7	20	5	44	155	5	22	80	8220	6580	
91-58	10606	53.00	55.00	2.00	-	-	6	-	-	0.6	131	16	42	215	12	45	92	9260	7870	
91-58	10607	55.00	57.00	2.00	-	-	10	-	-	0.5	86	5	78	420	5	24	109	8920	3950	
91-58	10608	57.00	59.00	2.00	-	-	13	-	-	0.5	70	6	54	245	6	27	124	10740	5770	
91-58	10609	59.00	61.00	2.00	-	-	18	-	-	0.4	57	5	15	375	4	15	64	6740	5040	
91-58	10610	61.00	63.00	2.00	-	-	15	-	-	0.5	52	8	32	400	6	17	63	13600	5270	
91-58	10611	63.00	65.00	2.00	-	-	16	-	-	0.3	76	8	33	490	6	22	72	15260	1330	
91-58	10612	65.00	67.00	2.00	-	-	11	-	-	0.8	106	8	41	650	6	23	110	10290	7550	
91-58	10613	67.00	69.00	2.00	-	-	6	-	-	0.7	31	5	31	560	6	19	100	8130	7830	
91-58	10614	69.00	71.00	2.00	-	-	2	-	-	0.8	27	4	52	200	5	26	121	9300	10760	
91-58	10615	71.00	73.00	2.00	-	-	4	-	-	0.9	26	8	44	245	7	35	148	9470	12180	

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91-58	10616	73.00	75.00	2.00	-	-	5	-	-	0.7	28	4	49	195	5	21	107	13030	9140	
91-58	10617	75.00	77.00	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
91-58	10618	77.00	79.00	2.00	-	-	1	-	-	0.6	29	4	39	170	6	25	102	9690	4520	
91-58	10619	79.00	81.00	2.00	-	-	3	-	-	0.8	29	5	47	270	4	22	127	9560	6320	
91-58	10620	81.00	83.00	2.00	-	-	19	-	-	1.1	54	8	126	245	5	22	93	15210	10460	
91-58	10621	83.00	85.00	2.00	-	-	85	-	-	1.1	358	13	91	445	5	22	98	17380	10160	
91-58	10622	85.00	87.00	2.00	-	-	174	-	-	7.4	425	33	100	700	13	22	152	17530	6720	
91-58	10623	87.00	89.00	2.00	-	-	267	-	-	4.2	267	31	120	560	9	26	115	12660	2950	
91-58	10624	89.00	91.00	2.00	-	-	469	-	-	2.9	223	26	133	510	8	24	127	15370	1420	
91-58	10625	91.00	93.00	2.00	1.24	0.036	1170	-	-	4.5	2395	89	328	875	10	28	103	33680	12760	
91-58	10626	93.00	95.00	2.00	1.35	0.039	1280	-	-	2.1	3907	125	248	405	7	21	144	22220	9420	
91-58	10627	95.00	97.00	2.00	-	-	110	-	-	1.4	507	22	167	375	5	17	87	21250	20070	
91-58	10628	97.00	99.00	2.00	-	-	26	-	-	1.2	137	12	120	385	4	18	93	8330	13830	
91-58	10629	99.00	101.00	2.00	-	-	19	-	-	1.3	121	13	106	605	6	29	83	7390	6650	
91-58	10630	101.00	103.00	2.00	-	-	14	-	-	1.1	94	9	33	510	5	19	83	6100	8600	
91-58	10631	103.00	105.00	2.00	-	-	8	-	-	1.2	139	12	111	530	6	30	88	7630	6010	
91-58	10632	105.00	107.00	2.00	-	-	1	-	-	0.7	153	12	132	545	6	29	116	11780	1920	
91-58	10633	107.00	109.00	2.00	-	-	3	-	-	0.8	58	8	110	230	6	28	99	10200	3700	
91-58	10634	109.00	109.73	0.73	-	-	19	-	-	0.8	47	6	66	335	5	22	91	9020	2420	

COMP: COPELAND, REBAGLIATI & ASSOC.

PROJ: 9101

ATTN: M. REBAGLIATI

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

(604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ19+20

DATE: 91/10/17

\* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
10515	8.1	3250	115	1	60	1.8	1	7160	7.2	8	74	29050	2150	1	1360	197	28	1100	60	430	26	137	17	1	24	17.8	588	1	1	2	65	960	
10516	1.5	3110	103	1	100	1.2	1	6360	8.2	5	46	17010	1870	1	820	121	35	1240	57	370	24	55	9	1	17	20.6	752	1	1	4	90	850	
10517	2.6	12370	46	1	92	1.0	1	56250	.1	11	60	54450	4610	9	4620	775	2	1990	8	17270	18	6	171	1	87	86.5	178	1	1	3	43	1200	
10518	1.4	12680	29	11	206	3.0	1	8600	.1	2	3	13150	5000	8	10000	191	4	100	1	30	24	13	32	3	42	2.2	116	4	1	4	76	19	
10519	.6	8670	30	9	77	2.4	2	12210	.1	2	5	13410	3550	5	10700	180	5	180	1	30	26	8	44	3	43	3.6	110	5	1	4	91	2	
10520	.7	11310	18	8	87	3.5	2	7830	.1	1	3	10270	4710	7	8750	161	2	60	1	30	24	7	25	3	45	1.9	117	5	1	3	51	2	
10521	.9	5330	25	6	56	2.6	1	11380	.1	1	3	7590	3260	2	7340	132	5	70	1	20	24	6	31	3	33	1.8	113	5	1	4	79	1	
10522	.7	9880	28	7	188	3.0	1	8820	.1	3	3	16160	3420	8	12530	231	4	150	1	40	20	6	33	3	36	4.6	112	6	1	4	80	1	
10523	.5	8350	28	7	114	3.8	1	7150	.1	4	5	17890	3480	6	12030	210	5	120	2	50	24	7	19	2	32	5.0	139	4	1	3	58	3	
10524	.7	5770	27	5	37	2.0	1	9900	.1	2	3	12770	1960	5	8150	206	4	240	1	40	24	5	22	3	28	2.3	116	5	1	5	119	1	
10525	.8	3510	23	4	57	1.2	1	10970	.1	2	2	10780	1170	2	7200	229	7	350	1	30	25	6	28	1	25	1.9	102	4	1	6	138	1	
10526	.7	7220	41	1	72	3.0	1	6690	.1	2	7	14890	3000	5	6800	234	21	140	1	70	20	8	16	5	26	2.0	149	3	1	3	75	320	
10527	2.2	10850	54	1	54	.9	1	11600	.1	13	76	73540	3350	7	4110	333	1	880	8	5120	13	5	46	1	48	91.0	212	1	1	3	61	1500	
10528	3.5	7490	90	1	43	1.0	1	24170	25.3	10	81	66160	3470	6	4690	592	12	1030	21	9350	14	12	99	1	42	80.9	1256	1	1	3	46	1700	
10529	3.8	3460	144	1	64	1.0	1	7290	42.1	11	100	53910	2230	3	3520	348	21	900	66	720	16	17	18	1	19	58.8	1862	1	1	2	36	1855	
10530	3.4	3650	117	1	86	.9	1	8420	47.7	11	96	50850	2220	4	4340	382	39	1040	62	1330	16	17	23	1	20	63.8	2147	1	1	2	28	2020	
10531	3.9	3750	114	1	38	1.0	1	3850	16.7	12	94	70800	2270	3	1470	185	30	1150	38	900	22	21	9	1	19	56.9	1083	1	1	2	44	1580	
10532	1.2	5430	260	2	115	1.6	1	3770	5.8	11	95	44650	2910	1	520	110	63	3300	134	1030	51	30	10	1	40	54.3	789	1	1	2	37	1055	
10533	.5	5870	207	1	102	1.8	1	5900	2.8	10	60	35340	3090	1	1790	184	43	2110	82	370	27	29	11	1	30	37.6	422	1	1	2	48	1335	
10534	.5	5730	132	1	95	2.0	1	17570	4.5	18	66	30480	3030	2	5020	239	28	1390	55	240	36	27	42	1	26	32.9	567	1	1	2	33	2300	
10535	2.4	3910	71	1	66	1.3	1	10700	1.7	6	38	21370	2030	1	4020	394	21	3130	47	140	18	23	27	1	29	25.8	329	1	1	4	86	1035	
10536	3.1	4240	184	1	75	1.4	1	8100	4.9	9	57	32690	2200	2	3090	233	35	2760	70	220	21	32	20	1	25	35.4	540	1	1	3	60	1140	
10537	4.6	5280	136	1	234	1.9	1	5980	3.6	9	54	28370	2870	2	2720	151	25	2040	46	260	22	25	16	1	27	23.2	487	1	1	2	35	910	
10538	5.0	3730	138	1	79	1.4	1	5660	1.8	7	38	23680	2060	2	2110	116	25	850	38	350	13	19	15	1	19	15.0	331	1	1	2	46	1010	
10539	5.4	2970	239	1	66	1.2	1	6960	.7	5	29	25190	1620	1	1270	86	26	2070	27	340	20	42	17	1	18	11.2	278	1	1	5	107	11500	
10540	.1	3030	402	6	66	1.8	1	12680	.1	4	8	46760	1860	1	1150	156	69	630	1	30	17	27	35	1	19	1.3	108	1	1	4	89	2	
10541	.8	4850	130	3	59	1.5	1	22630	.1	2	5	13760	1920	3	2790	277	17	90	6	20	16	19	93	1	20	3.8	145	3	1	4	90	3	
10542	.6	7950	71	4	76	2.5	1	7340	.1	2	4	12960	2660	6	4390	152	10	70	8	50	18	14	14	2	23	3.1	138	4	1	3	68	2	
10543	.3	9850	224	5	86	3.0	1	7360	.1	3	6	30520	3060	7	5640	172	20	70	8	50	30	29	13	1	25	2.2	159	3	1	4	88	1	
10544	.4	6500	101	4	68	2.0	1	11950	.1	2	4	18510	2140	5	4010	309	11	130	5	60	17	13	18	2	27	1.9	122	3	1	4	77	4	
10545	.4	6750	73	3	59	2.1	1	7160	.1	2	4	21210	1880	6	4150	151	11	260	1	30	12	9	11	2	28	1.7	114	4	1	5	115	2	
10546	.5	4240	124	3	37	1.3	1	12620	.1	3	5	28930	1260	4	2480	242	20	410	1	10	23	14	24	2	30	1.6	43	1	1	6	145	6	
10547	.1	3760	419	7	52	2.4	1	8150	.1	8	8	99520	2010	1	1030	100	34	180	1	10	57	37	11	1	30	.1	87	1	1	3	82	3	
10548	.1	4740	381	6	61	2.4	1	9740	.1	7	6	81600	2320	1	1360	129	22	160	1	10	42	26	15	1	29	.1	153	1	1	3	81	9	
10549	.4	9320	93	4	124	4.2	1	6300	.1	2	3	21600	3200	6	3710	117	8	120	1	20	16	10	14	2	34	1.0	95	4	1	3	58	4	
10550	.3	7450	80	4	66	2.5	1	5150	.1	3	3	25640	2270	6	3520	118	10	240	1	10	17	8	8	3	41	1.0	90	3	1	4	90	7	
10551	.4	4050	61	1	19	.8	2	5950	.1	2	3	18100	540	4	2470	113	7	430	1	10	12	5	9	2	27	1.0	82	3	1	5	115	2	
10552	.4	5340	24	1	49	1.1	1	4020	.1	2	3	12070	920	5	2980	108	4	440	1	20	15	4	6	3	39	1.2	105	5	1	6	133	2	
10553	.4	4160	92	2	48	1.4	1	3180	.1	2	3	14180	1370	3	1750	69	5	340	1	110	25	7	5	2	32	.8	95	4	1	4	86	4	
10554	.7	3500	140	2	39	1.1	1	7680	.1	2	5	19520	830	3	1730	124	8	460	1	120	22	9	14	1	18	.8	97	2	1	6	134	13	
10555	.8	10120	48	3	52	2.5	3	14290	.1	2	3	18920	1790	11	6270	428	3	290	1	20	23	5	32	5	43	2.0	115	7	1	5	99	6	
10556	.7	6220	36	2	58	1.8	1	9940	.1	2	4	13890	1720	5	3050	253	6	400	1	20	24	5	17	3	40	1.5	137	5	1	6	134	17	
10557	.9	10130	23	2	69	2.8	1	9370	.1	2	3	12120	2610	8	6390	176	2	270	1	20	24	4	15	5	46	1.7	107	6	1	4	76	1	
10558	1.2	7850	22	3	70	2.4	2	26850	.1	1	3	9640	2610	6	5660	576	3	250	1	40	26	4	41	3	42	2.5	97	5	1	4	85	1	
10559	.9	6670	28	3	70	3.0	1	12210	.1	1	3	10900	2900	4	8080	214	2	150	1	30	22	4	27	4	26	1.9	102	4	1	4	76	3	
10560	.8	9820	26	3	76	3.0	2	10420	.1	1	3	11110	3180	9	9170	277	2	150	1	40	24	5	21	4	30	1.9	122	5	1	3	61	5	
10561	1.0	12270	29	9	76	2.3	2	11750	.1	2	6	10410	3410	11	8570	173	5	330	1	20	28	5	22	4	47	2.6	103	6	1	6	135	2	

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M.REBAGLIATI

MIN-EN LABS — ICP REPORT  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ21+22  
 DATE: 91/10/17  
 \* ROCK \* (ACT: F51)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB	
10571	1.3	7720	70	4	112	.7	1	9530	3.0	10	66	34310	3550	4	7870	493	17	3530	33	350	32	33	20	1	30	42.9	368	1	2	2	36	1455		
10572	2.0	7680	78	3	118	.9	1	12820	5.0	12	85	38250	3400	4	7970	925	19	3380	43	730	32	44	36	1	38	55.1	568	1	2	3	51	1265		
10573	1.9	9600	79	4	145	.8	2	17940	2.7	11	77	39050	4000	5	8640	731	20	2890	35	3290	24	54	61	1	44	57.3	375	1	2	3	47	1480		
10574	2.6	6990	99	3	116	1.0	1	6860	7.4	12	88	39780	2860	3	4930	374	20	2750	48	750	28	76	18	1	36	49.0	626	1	2	3	39	1545		
10575	2.1	7050	107	2	124	.9	1	4770	14.7	10	85	36120	2740	4	4130	336	20	3840	60	340	32	80	12	1	28	48.4	1077	1	1	3	50	1685		
10576	1.5	6530	75	1	99	.9	1	8530	6.2	10	69	35680	2220	6	6090	376	21	2840	45	600	20	71	26	1	30	44.7	644	1	2	2	38	1255		
10577	1.1	4710	76	1	107	.7	1	10450	6.1	8	55	28980	2080	3	6640	400	22	2400	59	360	19	72	43	1	25	36.9	712	1	2	3	48	1120		
10578	1.9	4530	322	2	143	1.0	1	19870	2.4	15	83	42790	2260	1	11320	602	35	3150	45	760	29	100	103	1	46	32.0	527	1	2	3	66	1800		
10579	1.9	4780	134	2	85	1.2	2	16150	1.5	16	85	42410	2450	1	7780	606	30	2950	51	790	48	93	42	1	43	27.7	475	2	3	3	56	1700		
10580	1.2	4690	105	2	89	1.4	1	6310	1.5	13	82	42150	2440	1	1630	202	40	1730	75	930	36	95	13	1	38	20.0	484	1	1	2	34	1795		
10581	1.9	3420	148	2	59	1.4	1	4210	16.5	13	138	41050	1910	1	550	140	64	2750	157	1090	57	125	9	1	23	32.2	1628	1	1	3	37	2120		
10582	2.1	7390	190	3	114	1.8	1	5190	16.3	13	130	37640	3730	1	1150	184	75	2550	138	960	50	119	12	1	43	78.3	1643	1	2	4	47	3000		
10583	1.1	6540	201	3	100	2.4	2	1810	.1	5	28	25210	3470	1	930	95	98	2130	52	110	34	56	5	9	38	10.2	256	2	2	2	35	1250		
10584	.9	7190	120	2	103	2.3	2	1800	.1	3	13	17510	3670	1	1020	51	64	1950	13	80	29	31	5	7	34	4.6	213	3	3	4	81	900		
10585	.4	5340	104	2	78	1.6	1	5020	.1	4	9	32140	2820	1	2040	99	50	50	1	40	16	19	11	4	21	2.3	99	1	13	4	82	780		
10586	.5	4800	183	2	66	1.3	2	7370	.1	4	7	35670	2550	1	3270	131	39	1260	1	30	24	20	26	3	22	2.4	75	2	2	5	121	820		
10587	.8	6110	184	2	109	1.5	2	10390	.1	3	6	19900	3140	2	5490	153	34	50	1	30	17	16	46	4	25	3.1	95	3	2	6	153	885		
10588	.9	6990	196	2	175	1.6	2	7260	.1	3	10	17830	3510	3	3450	80	33	1810	18	30	29	28	23	5	30	3.9	189	3	1	4	93	680		
10589	1.0	8850	87	2	127	1.9	2	7620	.1	2	9	13040	4380	3	4110	115	19	70	12	20	23	20	20	5	32	4.4	170	4	1	4	92	585		
10590	.9	7340	82	1	227	1.6	2	7060	.1	2	11	14500	3290	4	5810	115	19	2390	12	20	33	15	14	3	24	6.0	176	3	2	6	153	625		
10591	.8	8040	55	1	91	1.3	2	5480	.1	2	10	9480	3170	6	6090	110	14	1450	10	20	25	8	9	4	23	4.9	156	4	1	4	101	380		
10592	.7	9490	87	1	88	1.2	1	4450	.1	3	9	17760	3060	10	8820	94	13	50	10	10	22	9	8	3	22	4.9	159	4	1	6	132	425		
10593	1.1	10340	82	1	102	1.5	3	2780	.1	3	8	14640	3470	10	7760	69	16	60	17	20	26	12	6	5	33	4.0	155	5	2	7	151	395		
10594	.5	6550	71	16	62	1.2	1	4090	.1	2	7	13900	1660	11	7850	79	8	40	13	20	32	13	7	1	17	3.1	131	4	1	4	91	430		
10595	.5	5850	41	9	52	1.0	2	4310	.1	1	10	8700	1560	9	6910	86	8	40	9	10	26	8	8	1	14	2.7	157	3	1	5	104	17	6	345
10596	.6	8100	56	7	66	1.3	2	3050	.1	2	7	12070	2150	11	8110	82	8	40	7	10	28	12	6	1	14	2.8	160	5	1	5	107	14	435	
10597	.3	8280	49	7	80	2.0	1	3660	.1	2	5	16740	2780	10	9610	129	12	100	1	20	30	10	7	1	20	1.7	118	4	1	4	90	4	695	
10598	.6	8280	55	6	83	2.0	1	6350	.1	2	6	14350	3120	9	9340	108	12	70	5	20	27	15	17	1	21	2.5	156	4	1	4	100	9	550	
10599	.5	11550	27	6	97	2.0	1	6460	.1	2	5	13320	3360	13	10440	165	7	210	1	10	25	5	8	1	36	2.1	105	6	1	6	142	2	400	
10600	.8	17530	12	10	203	3.1	2	13340	.1	1	5	8110	8050	6	4850	129	3	810	2	10	19	4	9	1	80	2.1	106	5	1	5	125	7	210	
10601	.5	2070	24	2	44	.6	1	4440	.1	1	5	7160	910	1	1970	103	5	450	1	10	20	3	7	1	28	1.2	89	2	1	7	170	3	215	
10602	.4	2390	30	2	36	.8	1	3790	.1	1	6	8350	1290	1	1530	102	2	450	2	10	17	4	5	1	34	1.5	109	2	1	7	158	8	230	
10603	.6	2780	186	2	44	1.5	2	5980	.1	1	6	9480	1530	1	2120	144	4	380	1	10	41	5	9	1	39	1.5	108	2	1	7	158	2	140	
10604	.5	3620	25	1	40	1.5	1	5950	.1	1	4	8000	1580	2	2010	142	2	360	2	10	26	3	8	1	46	1.5	83	3	1	6	143	5	165	
10605	.7	4390	20	2	44	2.0	1	6580	.1	1	5	8220	1700	3	2580	161	4	330	1	10	22	5	10	2	51	1.6	80	4	1	7	172	1	155	
10606	.6	3690	131	1	42	1.3	1	7870	.1	1	12	9260	1640	3	4030	241	2	280	1	10	45	16	12	1	32	1.6	92	3	1	5	118	6	215	
10607	.5	7470	86	2	78	2.1	2	3950	.1	1	5	8920	2940	5	4060	143	3	130	1	10	24	5	7	1	42	1.5	109	4	1	5	104	10	420	
10608	.5	5620	70	1	54	1.7	1	5770	.1	1	6	10740	2150	4	3460	134	3	230	1	10	27	6	10	1	34	1.4	124	3	1	4	99	13	245	
10609	.4	1310	57	1	15	.2	1	5040	.1	1	4	6740	310	1	980	71	6	850	4	20	15	5	8	1	24	1.3	64	2	1	8	196	18	375	
10610	.5	1790	52	1	32	.4	1	5270	.1	2	6	13600	1050	1	1000	76	6	540	2	20	17	8	8	1	26	1.0	63	1	1	6	159	15	400	
10611	.3	1900	76	1	33	.5	1	1330	.1	2	6	15260	1050	1	350	34	6	550	1	20	22	8	3	1	30	.8	72	1	1	7	165	16	490	
10612	.8	3170	106	1	41	1.1	2	7550	.1	2	6	10290	1690	1	2900	112	4	410	3	30	23	8	29	3	27	1.8	110	3	1	6	139	11	650	
10613	.7	3650	31	1	31	1.1	1	7830	.1	1	6	8130	1210	4	3560	150	4	1310	1	20	19	5	18	2	35	1.7	100	3	1	7	163	6	560	
10614	.8	6030	27	1	52	2.5	2	10760	.1	1	5	9300	2120	5	4280	211	2	140	2	10	26	4	16	2	32	1.9	121	4	1	4	99	2	200	
10615	.9	4500	26	1	44	1.7	2	12180	.1	1	7	9470	1620	4	5600	145	4	220	2	20	35	8	22	2	29	2.1	148	5	1	6	147	4	245	
10616	.7	7770	28	1	49	2.3	2	9140	.1	2	5	13030	1930	9	6940	147	2	180	1	20	21	4	18	2	28	2.1	107	5	1	4	95	5	195	
10618	.6	4860	29	1	39	1.0	2	4520	.1	1	6	9690	1330	5	4000	59	4	400	2	30	25	4	8	2	39	1.4	102	4	1	8	183	1	170	
10619	.8	3680																																



COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

MIN-EN LABS — ICP REPORT  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ23+24  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPM	HG PPM
10628	1.2	4780	137	5	120	.9	1	13830	.1	1	4	8330	2650	1	1150	136	11	200	1	10	18	12	23	1	38	1.3	93	2	1	5	117	26	385
10629	1.3	6550	121	6	106	1.4	2	6650	.1	1	6	7390	3300	2	1800	67	6	360	1	20	29	13	9	2	65	1.1	83	3	1	6	148	19	605
10630	1.1	2950	94	2	33	.3	2	8600	.1	1	5	6100	960	2	2770	123	3	850	3	10	19	9	13	2	49	1.5	83	4	1	8	182	14	510
10631	1.2	9200	139	4	111	1.9	2	6010	.1	1	6	7630	3990	5	5020	94	7	360	1	20	30	12	10	3	57	1.7	88	6	1	7	169	8	530
10632	.7	16060	153	6	132	2.8	2	1920	.1	2	6	11780	5280	14	10480	70	6	150	1	30	29	12	5	2	44	1.7	116	6	1	5	97	1	545
10633	.8	14160	58	4	110	2.2	2	3700	.1	1	6	10200	4560	13	10320	72	10	290	1	50	28	8	8	2	45	1.8	99	6	1	6	141	3	230
10634	.8	10450	47	4	66	1.3	2	2420	.1	1	5	9020	2780	11	8020	54	5	620	1	20	22	6	5	2	63	1.7	91	6	1	8	167	19	335
10635	1.1	8180	234	3	138	1.8	2	3130	6.7	12	83	40000	4080	2	1180	133	47	2040	83	830	27	87	7	1	47	43.6	782	1	1	2	34	1600	
10636	1.1	6090	202	6	166	1.8	2	6440	9.3	11	78	34270	3150	2	2310	203	43	2310	86	640	34	84	15	1	36	34.6	1082	1	1	2	27	1785	
10637	.8	7150	226	4	146	1.9	2	2560	9.8	10	79	32300	3650	2	1060	121	57	2240	118	590	32	93	6	1	44	56.4	1129	1	1	2	28	2065	
10638	1.2	9320	279	5	167	2.1	2	2500	9.8	13	106	41010	4590	2	1210	153	56	3260	130	600	46	107	5	1	61	69.7	1219	1	1	4	52	1480	
10639	1.1	7240	256	3	139	1.2	2	4160	5.6	7	52	24690	3760	2	1830	129	70	2610	118	350	36	72	11	1	54	58.4	836	1	1	6	120	1360	
10640	.9	8520	250	3	170	2.0	2	2650	.1	4	18	26960	4440	2	1760	55	62	1520	37	30	25	42	7	5	52	7.0	320	2	1	3	63	900	
10641	1.5	13340	287	5	242	2.3	2	860	.1	4	9	30640	7000	3	1850	26	26	70	2	10	14	22	2	4	62	2.8	168	1	2	3	66	540	
10642	.5	9010	228	3	172	1.6	1	3260	.1	3	9	29830	4990	2	2110	44	33	60	1	10	15	21	11	2	47	3.4	133	1	1	5	121	535	
10643	.5	10080	177	5	194	1.8	1	3300	.1	3	11	28990	5210	2	2160	61	38	60	6	10	16	26	10	2	50	4.1	104	1	2	5	135	595	
10644	.9	6870	112	2	131	1.4	2	10040	.1	3	11	19590	3590	2	4560	194	20	80	6	110	15	23	40	1	41	6.5	196	2	1	4	97	720	
10645	1.3	6700	48	2	108	1.7	1	11340	.1	4	24	11980	3570	3	5300	346	5	1930	8	200	28	25	41	1	44	8.9	121	1	1	3	84	490	
10646	.1	6530	236	7	85	1.5	2	4600	.1	5	12	55780	3330	1	2000	124	88	70	1	40	24	33	9	1	32	2.2	143	1	1	4	92	20	1330
10647	.1	5360	510	11	65	.1	1	6410	.1	12	10	144680	2840	1	2570	100	128	340	1	10	11	35	13	1	29	.3	76	1	1	2	79	6	1650
10648	.1	6380	144	5	91	1.6	2	1480	.1	3	7	28360	3360	1	1000	72	49	50	1	40	21	21	5	1	31	1.1	123	1	1	3	72	2	1315
10649	.3	3870	152	4	59	1.3	1	4450	.1	3	11	28560	2090	1	1640	93	121	540	6	60	26	32	11	1	22	2.8	136	1	1	3	51	4	1110
10650	.1	5250	133	5	73	1.2	1	8720	.1	4	6	38610	2730	1	3980	143	46	690	1	30	15	18	27	1	28	1.5	72	1	1	6	148	2	950
10651	.1	6330	243	8	83	1.1	1	5920	.1	7	7	83900	3260	1	2470	102	75	670	1	10	16	25	12	1	30	.9	63	1	1	4	78	3	1065
10652	.6	6480	148	4	114	1.8	2	4530	.1	3	12	21950	3310	1	1860	61	34	570	19	30	23	32	13	1	38	3.8	181	3	1	5	107	2	830
10653	.9	7210	154	4	144	1.7	1	7180	.1	4	17	23110	3640	1	3190	71	35	750	28	50	31	41	28	1	44	6.2	258	3	1	5	95	4	1070
10654	.4	7660	118	5	112	1.8	2	5850	.1	3	10	19520	3940	1	2720	80	27	70	21	30	27	34	17	1	46	3.3	144	2	1	5	116	1	740
10655	.6	5620	174	3	83	1.4	1	7810	.1	2	9	19200	2840	2	4670	123	26	540	18	30	25	28	48	1	20	3.6	160	3	1	4	107	2	615
10656	.8	11850	118	5	137	2.1	2	4530	.1	2	10	13320	4920	6	5960	98	19	470	10	30	26	28	10	1	41	6.2	190	5	1	5	121	1	570
10657	.6	12730	133	5	121	2.4	3	4040	.1	2	12	14980	4370	10	8180	101	19	470	9	30	26	26	9	1	29	6.6	206	6	1	6	125	3	570
10658	.7	13000	134	5	132	2.4	2	3760	.1	2	11	15420	4560	10	7780	93	20	330	11	30	26	18	10	1	29	6.5	227	5	1	6	136	2	650
10659	.7	10490	282	4	85	2.4	1	4380	.1	3	10	23690	4420	6	5620	99	23	590	4	40	31	32	11	1	16	4.3	230	4	1	5	119	4	730
10660	.7	11200	132	6	120	2.4	2	3630	.1	2	8	14370	4980	5	4940	143	17	200	5	20	22	25	10	1	21	3.8	200	4	1	7	150	2	480
10661	.4	8510	130	6	447	1.6	1	9870	.1	2	9	13970	4190	1	5470	170	14	70	5	20	19	32	45	1	29	3.4	144	3	1	5	116	5	530
10662	4.9	7510	250	6	84	1.7	3	54030	4.8	7	52	27680	3900	2	13780	974	34	1420	56	610	25	78	171	1	40	35.5	547	4	1	5	107	58	1050
10663	1.6	7890	202	4	164	1.8	1	26810	16.1	11	100	33210	4130	1	2970	542	55	3790	130	920	34	124	44	1	45	64.1	1440	1	1	3	33	2850	
10664	1.2	7470	168	4	173	2.0	2	14650	9.5	9	72	28130	3860	1	3700	359	58	3710	141	1090	40	109	31	1	39	57.3	1041	2	1	3	35	2180	
10665	1.1	9370	191	5	191	2.9	2	9530	9.4	12	87	39500	4650	1	3260	281	64	4060	141	1230	31	118	21	1	51	68.0	1065	1	1	2	27	1860	
10666	.7	8850	229	5	150	2.5	1	7520	6.7	23	83	55670	4560	1	2490	295	52	2030	109	940	23	104	17	1	79	56.7	897	1	1	2	29	1700	
10667	1.5	7340	126	4	250	1.9	2	9970	9.4	10	71	33080	3940	1	3840	253	38	5010	89	580	58	82	28	1	45	49.9	1040	1	1	4	73	1500	
10668	.6	7070	90	6	86	1.7	2	9090	.1	2	6	12140	4140																				



**MIN-EN LABORATORIES** 91-58  
 (DIVISION OF ASSAYERS CORP.)

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
 CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
 705 WEST 15TH STREET  
 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
 TELEPHONE (604) 980-5814 OR (604) 988-4524  
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**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Assay Certificate

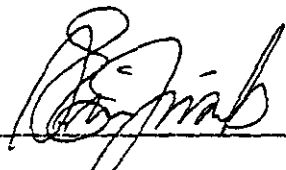
1S-0167-RA1

Company: **COPELAND REBAGLIATI & ASSOC.**  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-24-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.  
 2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

*We hereby certify* the following Assay of 2 ROCK samples submitted JUL-18-91 by RICHARD HASLINGER.

Sample Number	AU g/tonne	AU oz/ton
10625	1.24	.036
10626	1.35	.039

Certified by   
 MIN-EN LABORATORIES

COPELAND REBAGLIATI & ASSOCIATES LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-59  
 SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 104B/9 CLAIM # : SIB 12, 35  
 LOCAL GRID : 8820.12 N / 9728.41 E GLOBAL GRID : 13202.68 N / 17751.51 E  
 LENGTH : 54.50 m INCLINATION : -70.0 degrees ELEVATION : 977.16 metres  
 OVERBURDEN : 3.00 m CASING : 3.00 metres AZIMUTH : 296.0 degrees  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/13 DATE DRILLED : 1991/07/12 CORE LOCATION: 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 10635-10676

SUMMARY LOG 91-59

From(m)	To(m)	Field Name (Legend)
0.00	3.05	CASING
3.00	4.00	SULPHIDIC MUDSTONE AND CHERT (3.5)
4.00	8.00	BLACK CHERT - CHERT BRECCIA (3.3)
8.00	9.00	BLACK CHERT AND CHERT BRECCIA (3.3) +/- SULPHIDIC MUDSTONE AND CHERT (3.5)
9.00	47.00	SULPHIDIC MUDSTONE AND CHERT (3.5), TURBIDITIC MUDSTONE (3.6)
47.00	48.00	BLACK CHERT AND CHERT BRECCIA (3.3)
48.00	54.50	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
54.50		END OF HOLE.

ANALYTICAL HIGHLIGHTS 91-59

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
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No significant mineralization

From(m)	To(m)	Description
0.00	3.05	CASING
3.00	4.00	SULPHIDIC MUDSTONE AND CHERT (3.5)
4.00	8.00	BLACK CHERT - CHERT BRECCIA (3.3)

Lithology

-Black, laminations and thin(<1cm) beds common; beds are primarily black mudstone with pyritic layers, silt content is very low, increase in felsic volcanic material near the lower contact.  
 -Younging up hole, bedding at 40 - 50 degrees to c/a, lower contact is conformable.

Mineralization

-1 - 2% syngenetic pyrite throughout this interval.

8.00	9.00	BLACK CHERT AND CHERT BRECCIA (3.3) +/- SULPHIDIC MUDSTONE AND CHERT (3.5)
9.00	47.00	SULPHIDIC MUDSTONE AND CHERT (3.5), TURBIDITIC MUDSTONE (3.6)

Lithology <8.0>-<31.7>

-Dark grey with lightening of colour toward 31.7 metres, mixture of volcanic and clastic components, with volcanic fragments and ash comprising 70 - 80% of interval. Clastics include mudstone clasts, silt, and argillaceous material. Some interbeds are clastic lean, with < 3% of that component.

Structure

-Faults @ 12.0 - 14.8m: lost 1 metre of core, numerous gouge zones.  
 @ 31.7 - 39.6m: major "normal sense" fault, lost of 5.0 - 5.5 metres of core. Hole is drilled close to this fault plane. Same fault that cuts hole 91-53 at around 62.7 metres.  
 Foliations at bedding angles range from 40 - 50 degrees to c/a in the unshered sections, 25 - 35 degrees to c/a from 27.8 - 31.7.  
 -Fault zone: Defined by rubble, broken core from 31.7 - 36.6 metres, then broken, detached core from 36.6 - 39.6 metres. Lost 5 - 5.5m of core. Fault juxtaposes the Hybrid unit(8.0 - 31.7) with the same mudstone interval implying that this is a higher angle gravity (normal) fault. Tops or mudstone indicate younging to the top of the hole.  
 -39.6 - 45.0 See 3.0 - 8.0 metre interval description. There are graphitic and pyrobitumen partings on various surfaces.  
 -Younging up hole based on various measurements of laminae orientations (fining up, flame structures).

Alteration

-Weak sericitic and later silica or albitic alteration.

From(m) To(m) -----Description-----

Mineralization

-Syngenetic pyrite throughout interval, usually as wisps, blebs and semi-massive sections.

-8.0 - 10.0m: <0.5% pyrite; 10.0 - 12.0m: 0.5 - 1% pyrite; 12.0 - 15.3m: 0.5 - 1% pyrite; 15.3 - 16.3m: 30 - 40% pyrite (semi-massive zone); 16.3 - 20.4m: 1 - 2% pyrite (clastic lean zone); 17.9 - 19.3m: 1 - 2% pyrite (clastic rich zone); 19.3 - 20.4m: 1 - 2% pyrite (clastic: 30 - 40%); 20.4 - 21.3m: 15 - 20% pyrite; 21.3 - 23.0: <2% pyrite; 23.0 - 31.7m: <0.5% pyrite.

47.00 48.00 BLACK CHERT AND CHERT BRECCIA (3.3)  
48.00 54.50 TUFFACEOUS RHYOLITE -SERICITE (3.9a)

Lithology <45.0>-<54.5>

-Grey to medium grey, hard rhyolitic rock - mixture of rhyolite flow breccia, fragmental tuff, and flow material.

Structure

-Massive to weakly foliated, but core angles not considered reliable, upper contact is concordant.

Alteration

-Main alteration is the silica/ on albitic overprint. Thin fragmental beds (layers) are sericitized.

-Veining (quartz - quartz-carbonate) confined to felsic rocks, and makes up 1 - 2% of interval.

79.24 END OF HOLE.



## AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

## - SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-59	10635	3.00	4.00	1.00	0.01	0.001	-	-	-	1.1	234	87	138	1600	83	27	782	40000	3130
91-59	10636	4.00	5.00	1.00	0.02	0.001	-	-	-	1.1	202	84	166	1785	78	34	1082	34270	6440
91-59	10637	5.00	6.00	1.00	0.02	0.001	-	-	-	0.8	226	93	146	2065	79	32	1129	32300	2560
91-59	10638	6.00	7.00	1.00	0.01	0.001	-	-	-	1.2	279	107	167	1480	106	46	1219	41010	2500
91-59	10639	7.00	8.00	1.00	0.02	0.001	-	-	-	1.1	256	72	139	1360	52	36	836	24690	4160
91-59	10640	8.00	9.00	1.00	0.04	0.001	-	-	-	0.9	250	42	170	900	18	25	320	26960	2650
91-59	10641	9.00	10.00	1.00	0.25	0.007	-	-	-	1.5	287	22	242	540	9	14	168	30640	860
91-59	10642	10.00	11.00	1.00	0.14	0.004	-	-	-	0.5	228	21	172	535	9	15	133	29830	3260
91-59	10643	11.00	12.00	1.00	0.02	0.001	-	-	-	0.5	177	26	194	595	11	16	104	28990	3300
91-59	10644	12.00	13.00	1.00	0.04	0.001	-	-	-	0.9	112	23	131	720	11	15	196	19590	10040
91-59	10645	13.00	14.00	1.00	0.03	0.001	-	-	-	1.3	48	25	108	490	24	28	121	11980	11340
91-59	10646	14.00	15.30	1.30	-	-	20	-	-	0.1	236	33	85	1330	12	24	143	55780	4600
91-59	10647	15.30	16.30	1.00	-	-	6	-	-	0.1	510	35	65	1650	10	11	76	144680	6410
91-59	10648	16.30	17.90	1.60	-	-	2	-	-	0.1	144	21	91	1315	7	21	123	28360	1480
91-59	10649	17.90	19.30	1.40	-	-	4	-	-	0.3	152	32	59	1110	11	26	136	28560	4450
91-59	10650	19.30	20.00	0.70	-	-	2	-	-	0.1	133	18	73	950	6	15	72	38610	8720
91-59	10651	20.00	21.30	1.30	-	-	3	-	-	0.1	243	25	83	1065	7	16	63	83900	5920
91-59	10652	21.30	23.00	1.70	-	-	2	-	-	0.6	148	32	114	830	12	23	181	21950	4530
91-59	10653	23.00	24.00	1.00	-	-	4	-	-	0.9	154	41	144	1070	17	31	258	23110	7180
91-59	10654	24.00	25.00	1.00	-	-	1	-	-	0.4	118	34	112	740	10	27	144	19520	5850
91-59	10655	25.00	26.00	1.00	-	-	2	-	-	0.6	174	28	83	615	9	25	160	19200	7810
91-59	10656	26.00	27.00	1.00	-	-	1	-	-	0.8	118	28	137	570	10	26	190	13320	4530
91-59	10657	27.00	28.00	1.00	-	-	3	-	-	0.6	133	26	121	570	12	26	206	14980	4040
91-59	10658	28.00	29.00	1.00	-	-	2	-	-	0.7	134	18	132	650	11	26	227	15420	3760
91-59	10659	29.00	30.00	1.00	-	-	4	-	-	0.7	282	32	85	730	10	31	230	23690	4380
91-59	10660	30.00	31.00	1.00	-	-	2	-	-	0.7	132	25	120	480	8	22	200	14370	3630
91-59	10661	31.00	31.70	0.70	-	-	5	-	-	0.4	130	32	447	530	9	19	144	13970	9870
91-59	10662	31.70	40.00	8.30	-	-	58	-	-	4.9	250	78	84	1050	52	25	547	27680	54030
91-59	10663	40.00	41.00	1.00	0.01	0.001	-	-	-	1.6	202	124	164	2850	100	34	1440	33210	26810
91-59	10664	41.00	42.00	1.00	0.02	0.001	-	-	-	1.2	168	109	173	2180	72	40	1041	28130	14650
91-59	10665	42.00	43.00	1.00	0.02	0.001	-	-	-	1.1	191	118	191	1860	87	31	1065	39500	9530
91-59	10666	43.00	44.00	1.00	0.01	0.001	-	-	-	0.7	229	104	150	1700	83	23	897	55670	7520
91-59	10667	44.00	45.00	1.00	0.01	0.001	-	-	-	1.5	126	82	250	1500	71	58	1040	33080	9970
91-59	10668	45.00	46.00	1.00	0.01	0.001	-	-	-	0.6	90	11	86	510	6	24	108	12140	9090
91-59	10669	46.00	47.00	1.00	0.02	0.001	-	-	-	0.7	34	8	43	500	6	16	108	10850	15580
91-59	10670	47.00	48.00	1.00	-	-	5	-	-	1.3	49	10	96	300	7	29	131	11710	11570
91-59	10671	48.00	49.00	1.00	-	-	2	-	-	1.0	33	9	115	195	7	28	168	12000	5150
91-59	10672	49.00	50.00	1.00	-	-	1	-	-	0.7	30	8	164	75	6	22	139	10220	3140
91-59	10673	50.00	51.00	1.00	-	-	2	-	-	1.5	37	12	81	160	8	38	93	11760	3680
91-59	10674	51.00	52.00	1.00	-	-	3	-	-	0.9	39	9	98	170	7	31	109	11430	6490
91-59	10675	52.00	53.00	1.00	-	-	1	-	-	0.9	76	14	65	245	13	36	246	13120	6110
91-59	10676	53.00	54.50	1.50	-	-	4	-	-	0.7	37	9	90	220	9	31	130	15200	5570

COMP: COPELAND, REBAGLIATI & ASSOC.

PROJ: 9101

ATTN: M.REBAGLIATI

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

(604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ23+

DATE: 91/10/1

\* ROCK \* (ACT:F3)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	B1 PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	T1 PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPM	HG PPM
10628	1.2	4780	137	5	120	.9	1	13830	.1	1	4	8330	2650	1	1150	136	11	200	1	10	18	12	23	1	38	1.3	93	2	1	5	117	26	385
10629	1.3	6550	121	6	106	1.4	2	6650	.1	1	6	7390	3300	2	1800	67	6	360	1	20	29	13	9	2	65	1.1	83	3	1	6	148	19	605
10630	1.1	2950	94	2	33	.3	2	8600	.1	1	5	6100	960	2	2770	123	3	850	3	10	19	9	13	2	49	1.5	83	4	1	8	182	14	510
10631	1.2	9200	139	4	111	1.9	2	6010	.1	1	6	7630	3990	5	5020	94	7	360	1	20	30	12	10	3	57	1.7	88	6	1	7	169	8	530
10632	.7	16060	153	6	132	2.8	2	1920	.1	2	6	11780	5280	14	10480	70	6	150	1	30	29	12	5	2	44	1.7	116	6	1	5	97	1	545
10633	.8	14160	58	4	110	2.2	2	3700	.1	1	6	10200	4560	13	10320	72	10	290	1	50	28	8	8	2	45	1.8	99	6	1	6	141	3	230
10634	.8	10450	47	4	66	1.3	2	2420	.1	1	5	9020	2780	11	8020	54	5	620	1	20	22	6	5	2	63	1.7	91	6	1	8	167	19	335
10635	1.1	8180	234	3	138	1.8	2	3130	6.7	12	83	40000	4080	2	1180	133	47	2040	83	830	27	87	7	1	47	43.6	782	1	1	2	34	1600	
10636	1.1	6090	202	6	166	1.8	2	6440	9.3	11	78	34270	3150	2	2310	203	43	2310	86	640	34	84	15	1	36	34.6	1082	1	1	2	27	1785	
10637	.8	7150	226	4	146	1.9	2	2560	9.8	10	79	32300	3650	2	1060	121	57	2240	118	590	32	93	6	1	44	56.4	1129	1	1	2	28	2065	
10638	1.2	9320	279	5	167	2.1	2	2500	9.8	13	106	41010	4590	2	1210	153	56	3260	130	600	46	107	5	1	61	69.7	1219	1	1	4	52	1480	
10639	1.1	7240	256	3	139	1.2	2	4160	5.6	7	52	24690	3760	2	1830	129	70	2610	118	350	36	72	11	1	54	58.4	836	1	1	6	120	1360	
10640	.9	8520	250	3	170	2.0	2	2650	.1	4	18	26960	4440	2	1760	55	62	1520	37	30	25	42	7	5	52	7.0	320	2	1	3	63	900	
10641	1.5	13340	287	5	242	2.3	2	860	.1	4	9	30640	7000	3	1850	26	26	70	2	10	14	22	2	4	62	2.8	168	1	2	3	66	540	
10642	.5	9010	228	3	172	1.6	1	3260	.1	3	9	29830	4990	2	2110	44	33	60	1	10	15	21	11	2	47	3.4	133	1	1	5	121	535	
10643	.5	10080	177	5	194	1.8	1	3300	.1	3	11	28990	5210	2	2160	61	38	60	6	10	16	26	10	2	50	4.1	104	1	2	5	135	595	
10644	.9	6870	112	2	131	1.4	2	10040	.1	3	11	19590	3590	2	4560	194	20	80	6	110	15	23	40	1	41	6.5	196	2	1	4	97	720	
10645	1.3	6700	48	2	108	1.7	1	11340	.1	4	24	11980	3570	3	5300	346	5	1930	8	200	28	25	41	1	44	8.9	121	1	1	3	84	490	
10646	.1	6530	236	7	85	1.5	2	4600	.1	5	12	55780	3330	1	2000	124	88	70	1	40	24	33	9	1	32	2.2	143	1	1	4	92	20	1330
10647	.1	5360	510	11	65	.1	1	6410	.1	12	10	144680	2840	1	2570	100	128	340	1	10	11	35	13	1	29	.3	76	1	1	2	79	6	1650
10648	.1	6380	144	5	91	1.6	2	1480	.1	3	7	28360	3360	1	1000	72	49	50	1	40	21	21	5	1	31	1.1	123	1	1	3	72	2	1315
10649	.3	3870	152	4	59	1.3	1	4450	.1	3	11	28560	2090	1	1640	93	121	540	6	60	26	32	11	1	22	2.8	136	1	1	3	51	4	1110
10650	.1	5250	133	5	73	1.2	1	8720	.1	4	6	38610	2730	1	3980	143	46	690	1	30	15	18	27	1	28	1.5	72	1	1	6	148	2	950
10651	.1	6330	243	8	83	1.1	1	5920	.1	7	7	83900	3260	1	2470	102	75	670	1	10	16	25	12	1	30	.9	63	1	1	4	78	3	1065
10652	.6	6480	148	4	114	1.8	2	4530	.1	3	12	21950	3310	1	1860	61	34	570	19	30	23	32	13	1	38	3.8	181	3	1	5	107	2	830
10653	.9	7210	154	4	144	1.7	1	7180	.1	4	17	23110	3640	1	3190	71	35	750	28	50	31	41	28	1	44	6.2	258	3	1	5	95	4	1070
10654	.4	7660	118	5	112	1.8	2	5850	.1	3	10	19520	3940	1	2720	80	27	70	21	30	27	34	17	1	46	3.3	144	2	1	5	116	1	740
10655	.6	5620	174	3	83	1.4	1	7810	.1	2	9	19200	2840	2	4670	123	26	540	18	30	25	28	48	1	20	3.6	160	3	1	4	107	2	615
10656	.8	11850	118	5	137	2.1	2	4530	.1	2	10	13320	4920	6	5960	98	19	470	10	30	26	28	10	1	41	6.2	190	5	1	5	121	1	570
10657	.6	12730	133	5	121	2.4	3	4040	.1	2	12	14980	4370	10	8180	101	19	470	9	30	26	26	9	1	29	6.6	206	6	1	6	125	3	570
10658	.7	13000	134	5	132	2.4	2	3760	.1	2	11	15420	4560	10	7780	93	20	330	11	30	26	18	10	1	29	6.5	227	5	1	6	136	2	650
10659	.7	10490	282	4	85	2.4	1	4380	.1	3	10	23690	4420	6	5620	99	23	590	4	40	31	32	11	1	16	4.3	230	4	1	5	119	4	730
10660	.7	11200	132	6	120	2.4	2	3630	.1	2	8	14370	4980	5	4940	143	17	200	5	20	22	25	10	1	21	3.8	200	4	1	7	150	2	480
10661	.4	8510	130	6	447	1.6	1	9870	.1	2	9	13970	4190	1	5470	170	14	70	5	20	19	32	45	1	29	3.4	144	3	1	5	116	5	530
10662	4.9	7510	250	6	84	1.7	3	54030	4.8	7	52	27680	3900	2	13780	974	34	1420	56	610	25	78	171	1	40	35.5	547	4	1	5	107	58	1050
10663	1.6	7890	202	4	164	1.8	1	26810	16.1	11	100	33210	4130	1	2970	542	55	3790	130	920	34	124	44	1	45	64.1	1440	1	1	3	33	2850	
10664	1.2	7470	168	4	173	2.0	2	14650	9.5	9	72	28130	3860	1	3700	359	58	3710	141	1090	40	109	31	1	39	57.3	1041	2	1	3	35	2180	
10665	1.1	9370	191	5	191	2.9	2	9530	9.4	12	87	39500	4650	1	3260	281	64	4060	141	1230	31	118	21	1	51	68.0	1065	1	1	2	27	1860	
10666	.7	8850	229	5	150	2.5	1	7520	6.7	23	83	55670	4560	1	2490	295	52	2030	109	940	23	104	17	1	79	56.7	897	1	1	2	29	1700	
10667	1.5	7340	126	4	250	1.9	2	9970	9.4	10	71	33080	3940	1	3840	253	38	5010	89	580	58	82	28	1	45	49.9	1040	1	1	4	73	1500	
10668	.6	7070	90	6	86	1.7	2	9090	.1	2	6	12140	4140	1	3600	153	8	180	1	50	24	11	28	4	31	2.3	108	2	1	4	98	510	
10669	.7	2830	34	3	43	.6	2	15580	.1	2	6	6680	1550	1	6680	276	2	280	2	40	16	8	59	2	19	2.8	108	1	1	4	111	500	
10670	1.3	6430	49	3	96	1.5	2	11570	.1	2	7	11710	3580	2	5160	159	4	410	2	50	29	10	50	2	46	2.5	131	5	1	6	138	5	300
10671	1.0	9140	33	3	115	2.8	2	5150	.1	2	7	12000	4830	3	3900	107	4	270	1	40	28	9	19	5	36	1.4	168	6	1	4	89	2	195
10672	.7	12480	30	8	164	4.1	2	3140	.1	1	6	10220	6750	2	3400	72	3	310	1	40	22	8	12	7	89	.9	139	6	1	3	56	1	75
10673	1.5	6640	37	27	81	2.3	2	3680	.1	2	8	11760	3440	14	3890	146	8	520	1	30	38												



COMP: COPELAND, REBAGLIATI & ASSOC.

PROJ: 9101

ATTN: M. REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ23+2

DATE: 91/10/1

\* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SH PPM	W PPM	CR PPM	AU-FIRE PPM	HG PPM
10628	1.2	4780	137	5	120	.9	1	13830	.1	1	4	8330	2650	1	1150	136	11	200	1	10	18	12	23	1	38	1.3	93	2	1	5	117	26	385
10629	1.3	6550	121	6	106	1.4	2	6650	.1	1	6	7390	3300	2	1800	67	6	360	1	20	29	13	9	2	65	1.1	83	3	1	6	148	19	605
10630	1.1	2950	94	2	33	.3	2	8600	.1	1	5	6100	960	2	2770	123	3	850	3	10	19	9	13	2	49	1.5	83	4	1	8	182	14	510
10631	1.2	9200	139	4	111	1.9	2	6010	.1	1	6	7630	3990	5	5020	94	7	360	1	20	30	12	10	3	57	1.7	88	6	1	7	169	8	530
10632	.7	16060	153	6	132	2.8	2	1920	.1	2	6	11780	5280	14	10480	70	6	150	1	30	29	12	5	2	44	1.7	116	6	1	5	97	1	545
10633	.8	14160	58	4	110	2.2	2	3700	.1	1	6	10200	4560	13	10320	72	10	290	1	50	28	8	8	2	45	1.8	99	6	1	6	141	3	230
10634	.8	10450	47	4	66	1.3	2	2420	.1	1	5	9020	2780	11	8020	54	5	620	1	20	22	6	5	2	63	1.7	91	6	1	8	167	19	335
10635	1.1	8180	234	3	138	1.8	2	3130	6.7	12	83	40000	4080	2	1180	133	47	2040	83	830	27	87	7	1	47	43.6	782	1	1	2	34	1600	
10636	1.1	6090	202	6	166	1.8	2	6440	9.3	11	78	34270	3150	2	2310	203	43	2310	86	640	34	84	15	1	36	34.6	1082	1	1	2	27	1785	
10637	.8	7150	226	4	146	1.9	2	2560	9.8	10	79	32300	3650	2	1060	121	57	2240	118	590	32	93	6	1	44	56.4	1129	1	1	2	28	2065	
10638	1.2	9320	279	5	167	2.1	2	2500	9.8	13	106	41010	4590	2	1210	153	56	3260	130	600	46	107	5	1	61	69.7	1219	1	1	4	52	1480	
10639	1.1	7240	256	3	139	1.2	2	4160	5.6	7	52	24690	3760	2	1830	129	70	2610	118	350	36	72	11	1	54	58.4	836	1	1	6	120	1360	
10640	.9	8520	250	3	170	2.0	2	2650	.1	4	18	26960	4440	2	1760	55	62	1520	37	30	25	42	7	5	52	7.0	320	2	1	3	63	900	
10641	1.5	13340	287	5	242	2.3	2	860	.1	4	9	30640	7000	3	1850	26	26	70	2	10	14	22	2	4	62	2.8	168	1	2	3	66	540	
10642	.5	9010	228	3	172	1.6	1	3260	.1	3	9	29830	4990	2	2110	44	33	60	1	10	15	21	11	2	47	3.4	133	1	1	5	121	535	
10643	.5	10080	177	5	194	1.8	1	3300	.1	3	11	28990	5210	2	2160	61	38	60	6	10	16	26	10	2	50	4.1	104	1	2	5	135	595	
10644	.9	6870	112	2	131	1.4	2	10040	.1	3	11	19590	3590	2	4560	194	20	80	6	110	15	23	40	1	41	6.5	196	2	1	4	97	720	
10645	1.3	6700	48	2	108	1.7	1	11340	.1	4	24	11980	3570	3	5300	346	5	1930	8	200	28	25	41	1	44	8.9	121	1	1	3	84	490	
10646	.1	6530	236	7	85	1.5	2	4600	.1	5	12	55780	3330	1	2000	124	88	70	1	40	24	33	9	1	32	2.2	143	1	1	4	92	20	1330
10647	.1	5360	510	11	65	.1	1	6410	.1	12	10	144680	2840	1	2570	100	128	340	1	10	11	35	13	1	29	.3	76	1	1	2	79	6	1650
10648	.1	6380	144	5	91	1.6	2	1480	.1	3	7	28360	3360	1	1000	72	49	50	1	40	21	21	5	1	31	1.1	123	1	1	3	72	2	1315
10649	.3	3870	152	4	59	1.3	1	4450	.1	3	11	28560	2090	1	1640	93	121	540	6	60	26	32	11	1	22	2.8	136	1	1	3	51	4	1110
10650	.1	5250	133	5	73	1.2	1	8720	.1	4	6	38610	2730	1	3980	143	46	690	1	30	15	18	27	1	28	1.5	72	1	1	6	148	2	950
10651	.1	6330	243	8	83	1.1	1	5920	.1	7	7	83900	3260	1	2470	102	75	670	1	10	16	25	12	1	30	.9	63	1	1	4	78	3	1065
10652	.6	6480	148	4	114	1.8	2	4530	.1	3	12	21950	3310	1	1860	61	34	570	19	30	23	32	13	1	38	3.8	181	3	1	5	107	2	830
10653	.9	7210	154	4	144	1.7	1	7180	.1	4	17	23110	3640	1	3190	71	35	750	28	50	31	41	28	1	44	6.2	258	3	1	5	95	4	1070
10654	.4	7660	118	5	112	1.8	2	5850	.1	3	10	19520	3940	1	2720	80	27	70	21	30	27	34	17	1	46	3.3	144	2	1	5	116	1	740
10655	.6	5620	174	3	83	1.4	1	7810	.1	2	9	19200	2840	2	4670	123	26	540	18	30	25	28	48	1	20	3.6	160	3	1	4	107	2	615
10656	.8	11850	118	5	137	2.1	2	4530	.1	2	10	13320	4920	6	5960	98	19	470	10	30	26	28	10	1	41	6.2	190	5	1	5	121	1	570
10657	.6	12730	133	5	121	2.4	3	4040	.1	2	12	14980	4370	10	8180	101	19	470	9	30	26	26	9	1	29	6.6	206	6	1	6	125	3	570
10658	.7	13000	134	5	132	2.4	2	3760	.1	2	11	15420	4560	10	7780	93	20	330	11	30	26	18	10	1	29	6.5	227	5	1	6	136	2	650
10659	.7	10490	282	4	85	2.4	1	4380	.1	3	10	23690	4420	6	5620	99	23	590	4	40	31	32	11	1	16	4.3	230	4	1	5	119	4	730
10660	.7	11200	132	6	120	2.4	2	3630	.1	2	8	14370	4980	5	4940	143	17	200	5	20	22	25	10	1	21	3.8	200	4	1	7	150	2	480
10661	.4	8510	130	6	447	1.6	1	9870	.1	2	9	13970	4190	1	5470	170	14	70	5	20	19	32	45	1	29	3.4	144	3	1	5	116	5	530
10662	4.9	7510	250	6	84	1.7	3	54030	4.0	7	52	27680	3900	2	13780	974	34	1420	56	610	25	78	171	1	40	35.5	547	4	1	5	107	58	1050
10663	1.6	7890	202	4	164	1.8	1	26810	16.1	11	100	33210	4130	1	2970	542	55	3790	130	920	34	124	44	1	45	64.1	1440	1	1	3	33	2850	
10664	1.2	7470	168	4	173	2.0	2	14650	9.5	9	72	28130	3860	1	3700	359	58	3710	141	1090	40	109	31	1	39	57.3	1041	2	1	3	35	2180	
10665	1.1	9370	191	5	191	2.9	2	9530	9.4	12	87	39500	4650	1	3260	281	64	4060	141	1230	31	118	21	1	51	68.0	1065	1	1	2	27	1860	
10666	.7	8850	229	5	150	2.5	1	7520	6.7	23	83	55670	4560	1	2490	295	52	2030	109	940	23	104	17	1	79	56.7	897	1	1	2	29	1700	
10667	1.5	7340	126	4	250	1.9	2	9970	9.4	10	71	33080	3940	1	3840	253	38	5010	89	580	58	82	28	1	45	49.9	1040	1	1	4	73	1500	
10668	.6	7070	90	6	86	1.7	2	9090	.1	2	6	12140	4140	1	3600	153	8	180	1	50	24	11	28	4	31	2.3	108	2	1	4	98	510	
10669	.7	2830	34	3	43	.6	2	15580	.1	2	6	10850	1550	1	6680	276	2	280	2	40	16	8	59	2	19	2.8	108	1	1	4	111	500	
10670	1.3	6430	49	3	96	1.5	2	11570	.1	2	7	11710	3580	2	5160	159	4	410	2	50	29	10	50	2	46	2.5	131	5	1	6	138	5	300
10671	1.0	9140	33	3	115	2.8	2	5150	.1	2	7	12000	4830	3	3900	107	4	270	1	40	28	9	19	5	36	1.4	168	6	1	4	89	2	195
10672	.7	12480	30	8	164	4.1	2	3140	.1	1	6	10220	6750	2	3400	72	3	310	1	40	22	8	12	7	89	.9	139	6	1	3	56	1	75
10673	1.5	6640	37	27	81	2.3	2	3680	.1	2	8	11760	3440	14	3890	146	8	520	1	30	38	12	12	4									

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

(604)980-5814 OR (604)988-4524

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
10684	.7	6250	9	10	70	4.0	2	12480	.1	1	4	5990	4000	1	760	117	2	160	1	10	23	1	23	2	46	1.0	99	3	1	3	66	2	130
10685	.8	5230	17	1	60	2.9	1	12890	.1	1	5	6890	3260	1	1020	155	3	190	1	10	22	1	22	2	48	.9	103	3	1	3	77	6	180
10686	.8	3990	18	1	44	1.4	1	11660	.1	1	5	7090	2170	1	1060	172	1	340	1	10	18	2	14	1	44	1.3	106	3	1	3	72	1	405
10687	.5	4870	17	1	38	.9	2	8410	.1	1	6	9870	2010	4	2230	212	8	830	2	10	23	1	14	1	47	1.6	114	3	1	7	170	3	500
10688	.6	4740	11	1	49	1.6	2	9920	.1	1	6	8570	2290	3	2180	260	2	380	2	10	21	1	12	1	45	1.3	119	3	1	3	79	2	320
10689	.8	5430	12	1	56	2.3	1	13780	.1	1	6	7030	2820	3	2990	179	4	140	2	20	24	1	24	1	38	1.4	111	3	1	3	74	4	200
10690	.7	8080	12	1	124	2.4	2	11150	.1	1	5	7820	4060	4	4330	171	2	100	2	20	24	1	23	1	41	1.4	110	4	1	3	61	2	215
10691	1.1	6000	16	1	58	2.7	2	29100	.1	1	7	8860	3230	3	7760	803	3	80	2	20	25	4	43	1	25	2.7	89	4	1	2	47	5	245
10692	.6	5500	43	1	58	1.8	2	7650	.1	1	6	7290	2890	2	2840	113	3	280	1	50	25	8	11	1	31	1.3	99	4	1	3	73	3	445
10693	.6	7630	34	1	121	2.2	2	11670	.1	1	5	8670	3920	2	5190	149	8	290	2	40	21	6	28	1	40	1.8	96	4	1	4	90	2	355
10694	.7	8910	39	1	81	2.2	2	6240	.1	1	5	8450	4670	3	3200	48	4	110	2	30	21	5	14	1	35	1.2	84	4	1	3	74	2	210
10695	.5	10240	33	1	89	2.3	2	4860	.1	1	6	8100	5310	4	3020	56	6	140	1	30	24	4	12	1	46	1.0	122	4	1	3	76	1	205
10696	.6	10450	38	1	89	2.6	2	5120	.1	1	6	8580	5300	4	2930	63	4	130	1	30	24	6	14	2	45	1.0	115	4	1	3	57	4	390
10697	.7	12680	45	1	96	3.7	2	3050	.1	1	6	7590	6340	5	2430	35	6	90	1	30	30	9	10	3	33	.8	128	4	1	2	46	4	455
10698	.5	7270	165	1	63	2.3	2	2320	.1	3	17	11570	3850	3	1460	36	22	2430	34	10	33	26	7	3	37	10.6	250	1	1	2	51		1285
10699	.2	6080	265	1	62	1.5	1	2540	3.3	7	54	22980	3380	2	1510	61	49	1340	83	10	25	51	10	1	49	46.4	623	1	1	4	86		1945
10700	.2	6250	383	3	66	2.1	1	4470	.1	8	40	31780	3400	2	2060	80	68	1600	94	20	23	66	12	1	50	27.6	377	1	1	2	47		2440
10701	.1	6770	382	1	65	1.8	1	5450	.1	3	9	20420	3740	2	2670	68	37	40	8	10	18	24	14	1	32	4.4	84	1	1	5	125		2600
10702	.6	7910	59	1	110	1.9	2	6740	.1	1	6	9420	3900	3	3200	87	7	1020	3	40	21	8	15	1	40	1.6	133	4	1	4	100	15	415
10703	.4	7160	74	1	58	1.3	2	5190	.1	2	8	15910	3210	3	2860	59	14	1590	1	20	30	11	12	1	44	2.0	143	3	1	6	153	3	695
10704	.7	14530	106	1	109	3.6	2	1530	.1	2	7	12520	7140	7	3000	23	10	90	5	40	29	11	6	1	42	2.1	157	4	1	3	52	2	540
10705	.7	10310	48	1	78	2.4	3	6810	.1	2	7	11820	5130	4	3860	64	12	890	1	30	26	8	18	1	41	1.7	129	5	1	6	144	1	645
10706	.5	5840	61	1	47	1.1	1	9660	.1	2	6	14790	2580	4	5020	112	8	780	1	40	17	10	23	1	43	1.8	104	4	1	7	156	3	445
10707	.1	1700	267	20	18	1.0	1	5340	.1	6	9	63550	780	7	1810	30	24	1260	1	10	39	22	11	1	31	1.1	82	1	1	5	107	3	660
10708	.5	5790	38	11	36	2.0	1	5140	.1	1	5	11730	2280	9	4400	67	7	120	1	20	18	6	11	1	31	1.0	116	3	1	4	96	4	270
10709	.5	9750	42	9	45	2.9	1	4300	.1	2	6	15390	2810	15	7950	82	7	170	1	40	29	6	11	2	42	1.5	189	5	1	4	82	1	370
10710	1.0	3460	23	5	31	1.7	1	19070	.1	1	4	9240	1630	5	10390	413	4	240	1	40	30	3	53	1	27	2.4	101	4	1	4	83	1	210
10711	.8	3180	21	3	27	1.3	1	18550	.1	1	4	8310	1190	4	10210	321	2	260	1	30	23	3	48	1	25	2.5	91	4	1	5	101	2	175
10712	1.1	5830	13	3	61	2.4	1	26590	.1	1	5	8470	2000	7	10640	562	3	130	2	30	24	2	69	1	25	2.8	91	5	1	3	67	3	235
10713	1.3	8230	16	3	32	2.3	2	50930	.1	2	5	13040	1510	14	17700	1053	2	60	1	20	25	3	97	1	24	3.6	98	5	1	3	57	1	205
10714	1.1	10410	15	2	47	3.0	2	14070	.1	1	5	10400	2190	15	9840	409	2	60	1	20	21	3	15	1	31	2.1	97	6	1	3	58	2	140
10715	.8	13500	16	3	72	3.5	2	8570	.1	1	6	8730	5180	11	7350	199	6	170	1	10	29	3	11	2	43	1.7	94	6	1	5	112	6	190
10716	.6	8380	13	2	32	2.6	2	5550	.1	1	4	8050	2170	10	6360	112	2	100	1	20	19	2	7	1	39	1.2	92	5	1	3	61	2	125
10717	.6	8430	15	1	45	2.9	2	6900	.1	1	5	8410	2540	9	5740	118	4	100	1	10	20	3	9	2	43	1.3	94	4	1	3	54	2	105
10718	.9	6380	17	1	27	2.6	2	15110	.1	1	5	7990	1840	7	4860	229	2	100	1	10	25	3	22	2	34	1.4	88	4	1	3	64	3	165
10719	.8	6230	18	1	34	2.3	1	11570	.1	1	6	7310	2090	6	3890	148	6	240	1	30	27	3	16	2	37	1.5	89	4	1	4	99	1	145
10720	.6	4380	21	1	17	1.3	2	9310	.1	1	6	7930	1090	5	4770	109	2	1630	1	10	25	4	17	1	31	1.4	67	3	1	4	92	2	195
10721	.7	8200	29	1	24	2.1	1	8470	.1	1	6	10810	1500	10	7310	158	4	760	1	20	25	6	11	1	35	1.6	97	5	1	3	58	2	250
10722	1.2	8450	15	1	28	2.3	3	36660	.1	1	5	10010	1740	11	7840	935	2	100	1	30	20	3	41	1	29	2.7	83	6	1	3	53	4	150
10723	1.3	11060	18	1	33	2.5	2	29640	.1	2	5	11360	2090	15	11140	786	4	110	1	40	21	3	33	1	30	3.0	83	6	1	3	59	1	175
10724	1.3	10650	24	1	42	2.8	2	33190	.1	2	5	11570	2070	14	10500	882	2	90	1	50	21	4	36	1	28	3.0	94	6	1	3	51	2	205
10725	1.2	8860	26	1	37	2.3	3	24420	.1	1	6	9300	2110	10	7800	498	5	140	1	30	25	3	29	1	30	2.3	88	5	1	4	72	2	115
10726	.9	12710	21	1	39	2.9	2	18570	.1	1	5	12170	2350	17	12630	426	1	110	1	30	24	3	21	1	33	2.5	98	6	1	3	59	3	135
10727	.9	11210	12	1	37	3.1	2	14160	.1	1	6	9480	2620	13	9960	287	4	110	2	30	18	2	15	2	31	2.1	106	5	1	3	66	2	175
10728	.9	10740	15	1	30	2.9	2	13830	.1	1	5	9780	2270	13	10530	279	2	90	1	30	23	3	13	1	30	2.1	111	5	1	3	51	1	240
10729	.8	13280	23	1	26	2.9	1	7380	.1	2	5	11930	2120	18	13970	151	4	130	1	20	21	4	11	2	33	2.3	101	6	1	4	72	3	235
10730	1.0	11130	21	1	24	2.4	2	9160	.1	1	5	9940	1830	15</																			

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

MIN-EN LABS — ICP REPORT  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ27+2  
 DATE: 91/10/1  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
10740	.7	23170	21	3	60	4.3	2	5210	.1	2	5	10670	5770	30	22110	86	5	80	1	30	28	1	12	1	38	2.6	185	6	1	3	63	2	355
10741	.6	10580	80	1	29	2.1	1	4800	.1	1	5	9170	2720	14	10150	40	3	270	1	50	24	2	13	1	28	1.7	112	6	1	5	131	1	400
10742	.6	3640	109	1	18	.8	1	5180	.1	1	5	7580	1480	3	3180	32	11	480	2	20	19	4	10	1	23	1.4	113	3	1	7	180	1	465
10743	.5	4410	10	1	49	1.6	1	5010	.1	1	5	7120	2160	3	830	131	2	270	2	10	22	1	5	1	49	.7	101	3	1	4	83	1	115
10744	.5	4790	11	1	71	2.1	1	6010	.1	5	6	10350	2470	3	810	122	3	170	12	10	23	1	7	1	45	1.0	165	2	1	2	48	1	125
10745	.6	4520	17	1	105	2.3	2	7510	.1	5	6	10570	2740	3	650	131	2	150	17	10	21	1	14	1	40	1.1	172	2	1	3	67	4	125
10746	.6	3190	14	1	78	1.7	1	12420	.1	2	7	9470	3170	1	210	243	11	80	5	10	15	1	24	1	32	1.2	123	1	1	4	93	2	110
10747	.6	3750	17	1	61	2.1	1	9070	.1	2	5	7240	2760	2	360	207	3	230	5	20	18	1	15	1	42	.9	122	2	1	4	108	3	105
10748	.6	4150	59	1	56	2.5	1	9440	.1	1	5	6120	2490	2	340	144	7	380	3	10	17	1	13	1	56	1.0	88	3	1	5	124	2	130
10749	.8	3010	34	1	31	1.1	1	10870	.1	1	6	5980	1800	1	210	145	1	400	3	10	18	1	19	1	52	1.3	87	3	1	5	114	2	115
10750	.7	4740	86	1	61	2.9	1	10400	.1	1	4	5580	3610	2	320	135	4	220	2	10	19	1	20	1	48	1.0	91	2	1	3	78	1	150
10751	.3	2950	20	1	39	1.8	1	1770	.1	2	6	7210	1960	2	290	76	2	360	5	20	19	1	2	1	49	.7	102	2	1	5	131	3	135
10752	1.0	3450	54	1	37	1.6	2	5710	.1	2	7	5930	2140	2	290	82	7	510	5	10	24	1	8	1	58	1.4	96	3	1	6	140	1	150
10753	.9	5650	16	1	56	2.8	2	18030	.1	1	5	6240	3620	3	540	270	1	250	2	20	24	1	26	2	57	1.6	103	3	1	4	79	2	125
10754	.8	6830	12	1	62	2.2	1	12070	.1	1	6	7750	3590	5	910	208	6	350	2	10	19	1	17	1	63	1.3	132	4	1	5	127	1	135
10755	.7	6190	10	1	56	2.5	1	9460	.1	1	5	8140	3050	4	1030	166	1	240	1	20	21	1	12	1	53	1.1	114	3	1	4	100	2	100
10756	.6	6010	11	1	51	1.9	1	8340	.1	1	5	7990	2700	4	1100	163	5	350	2	10	23	1	9	1	58	1.2	112	3	1	5	109	1	165
10757	.7	2920	14	1	37	2.2	2	11870	.1	2	6	4760	1870	1	530	203	1	230	3	20	18	1	18	1	58	2.0	91	2	1	4	106	1	140
10758	.6	3960	22	1	38	2.0	1	8270	.1	5	8	10400	1870	3	1060	243	4	220	5	50	20	1	10	1	39	2.8	99	3	1	3	72	1	140
10759	.4	4200	13	1	39	1.5	1	2450	.1	1	6	7000	1910	3	850	101	1	330	1	10	22	1	3	1	48	.8	99	3	1	5	131	2	100
10760	.6	4270	13	1	35	1.9	1	8470	.1	1	5	7220	1960	3	880	180	5	260	1	10	16	1	8	2	48	1.2	136	3	1	4	93	1	175
10761	.5	5250	15	1	27	1.4	1	5120	.1	2	6	12060	1610	5	1570	184	1	320	1	20	19	1	4	1	56	.8	93	3	1	5	113	2	160
10762	.6	3160	18	1	24	1.1	1	7640	.1	1	5	7630	1320	2	1010	155	5	320	2	10	20	1	8	1	48	1.3	102	3	1	5	113	2	200
10763	.7	6650	13	1	51	3.3	1	6950	.1	2	6	11740	3230	4	1790	220	1	200	1	10	28	1	7	4	68	.9	115	4	1	4	81	1	135
10764	.8	3720	16	1	40	1.7	1	4490	.1	1	6	7230	2210	1	940	121	7	350	1	10	20	1	6	3	54	1.2	131	4	1	5	122	1	195
10765	.8	2090	18	1	16	.8	1	12310	.1	2	7	10940	870	1	1830	291	3	480	1	60	19	1	19	1	43	1.5	74	3	1	6	144	2	125
10766	.6	5470	18	1	46	2.8	1	7380	.1	4	7	12150	2900	2	2170	217	5	310	4	80	24	2	10	1	49	4.6	115	3	1	5	103	2	215
10767	.9	5830	16	13	59	2.5	1	10320	.1	1	7	8740	3000	7	2040	187	7	380	1	10	22	3	14	4	55	1.6	117	3	1	5	127	2	220
10768	.9	5350	33	9	45	2.6	1	6470	.1	2	7	11370	2640	7	2500	153	1	260	2	20	22	5	8	3	42	1.3	147	3	16	5	109	1	130
10769	.8	3080	35	4	23	1.1	2	10530	.1	1	6	9450	1200	4	2920	271	7	370	1	20	17	4	19	2	32	1.6	82	3	1	5	128	3	155
10770	.7	3990	13	1	167	2.0	1	9190	.1	1	5	9210	2070	2	3120	161	1	230	2	10	21	2	16	3	39	1.1	102	4	1	4	86	1	130
10771	.6	7240	17	2	61	2.0	1	5100	.1	2	6	12020	2710	7	3930	132	7	380	1	30	20	1	9	2	43	1.6	107	4	1	6	132	2	195
10772	.6	7580	15	1	57	2.9	2	6140	.1	1	5	10130	3230	6	4670	111	1	170	1	420	19	1	10	1	39	1.0	116	4	1	3	72	1	125
10773	.5	5620	21	1	59	2.0	2	5650	.1	1	5	8510	2600	4	4570	85	5	210	1	20	21	1	10	1	31	1.2	132	4	1	4	100	2	185
10774	.5	7150	20	1	51	2.4	2	4430	.1	1	5	8980	3110	5	5870	74	1	170	1	30	18	1	7	1	35	1.1	105	4	1	4	85	1	165
10775	.5	5790	15	1	39	1.9	2	4240	.1	1	5	6890	2610	4	5090	60	6	240	1	20	19	2	7	1	33	1.3	110	4	1	5	111	2	170
10776	.7	6490	25	1	43	2.1	2	5380	.1	1	5	7580	2570	5	6550	69	2	190	1	40	19	2	10	1	30	1.5	99	5	1	5	119	1	155
10777	.8	7230	29	1	45	2.1	2	6260	.1	1	5	8040	3090	5	7960	74	6	160	2	20	26	3	11	2	31	1.7	115	5	1	5	105	1	215
10778	.6	7600	22	1	63	2.5	2	4310	.1	1	4	6960	3170	6	7690	58	17	70	1	10	21	3	8	1	28	1.4	123	4	1	3	65	3	205
10779	.5	9850	36	1	61	2.8	2	3280	.1	2	6	8790	4320	7	7920	57	10	80	2	30	23	5	7	1	30	3.4	127	5	1	4	72	2	260
10780	.8	10670	29	1	72	2.3	2	10190	.1	1	5	9650	4250	9	10350	130	3	60	1	20	19	5	21	2	26	2.1	99	6	1	3	70	2	225
10781	.6	10550	23	1	62	2.3	1	4480	.1	1	5	9430	4600	9	9140	80	7	60	1	20	21	5	9	3	31	1.6	124	6	1	3	66	1	220
10782	.8	6170	35	1	60	2.1	2	8470	.1	1	5	6970	3390	2	4930	93	3	100	1	30	23	5	17	3	33	1.3	117	5	1	4	91	2	180
10783	.6	5730	52	1	63	2.3	1	5000	.1	1	5	5860	3240	1	2100	68	7	150	1	20	21	6	10	1	40	.9	129	4	1	4	97	4	165
10784	.9	4730	32	1	49	1.9	2	13180	.1	1	5	5480	2660	1	1610	275	3	220	1	10	23	5	15	3	50	1.3	124	3	1	4	91	2	95
10785	.8	4280	81	1	49	1.5	1	10440	.1	1	5	6430	2400	1	1500	285	6	200	2	10	24	8	11	1	42	1.2	99	3	1	4	90	2	185
10786	1.0	5320	103	1	51	2.1	2	16800	.1	1	5	7710	3290	1	1800	520	3	130	1	20	23	7	20	2	42	1.3	122	4	1	4	89	3	235
10787	.8	6080	44	1	65	2.0	1	7910	.1	1	5	5790	3660	1	2060	178	6	120	2	10	19	4</											

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ29+31  
 DATE: 91/10/1  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
10796	.8	3610	689	1	33	.9	1	12400	.1	2	6	7510	1990	1	1240	261	3	970	4	40	14	10	24	1	21	1.8	52	2	1	5	122	38	305
10797	1.3	12180	224	20	107	3.8	3	18610	.1	3	11	11050	6820	8	5520	579	8	100	1	70	21	11	53	6	42	3.6	139	5	2	4	66	3	220
10798	1.0	9850	78	12	84	3.8	2	11210	.1	2	8	9600	5580	6	5330	405	3	80	1	60	21	6	19	5	33	2.0	153	4	2	3	58	3	350
10799	1.1	7170	772	8	78	2.3	2	13850	.1	5	10	9560	3960	3	2690	358	5	120	5	90	20	15	24	1	32	5.5	124	3	1	3	74	61	420
10800	3.1	4360	620	5	86	1.0	2	11220	.1	3	9	10160	2390	1	730	110	3	300	4	70	16	19	19	1	38	3.2	76	2	1	6	143	220	740
10801	1.9	4520	424	6	56	1.0	1	7540	.1	3	13	15940	2380	1	910	131	10	1560	5	80	22	17	11	1	38	5.9	117	1	1	6	139	158	655
10802	.1	6510	224	1	62	2.3	1	4370	1.6	6	55	27960	3610	1	1760	121	38	3630	52	290	37	50	10	1	25	27.7	418	1	1	1	25	1450	
10803	.9	11320	233	3	89	2.8	1	5620	9.9	10	87	30900	6000	1	2220	179	64	1170	142	880	19	99	13	1	49	88.8	1048	1	1	3	24	1520	
10804	1.2	10700	160	4	88	2.8	1	6390	18.9	11	99	34970	5390	1	2670	232	78	1590	157	520	23	116	17	1	46	90.5	1729	1	1	3	22	2100	
10805	.9	13070	175	5	95	2.2	1	7860	2.2	14	107	45790	6950	2	3500	300	68	1150	116	800	22	122	24	1	54	62.0	601	1	1	2	22	1640	
10806	.9	12500	128	5	121	2.1	1	6410	4.5	11	82	38830	6580	1	2530	212	52	1580	103	800	29	97	17	1	53	68.4	806	1	1	2	23	1350	
10807	.8	10290	96	4	74	1.5	1	5940	13.0	9	83	29520	5390	1	2300	190	53	910	112	510	23	89	14	1	47	85.1	1277	1	1	3	30	1845	
10808	1.0	9990	195	4	79	1.7	2	7750	14.3	14	115	40120	5120	1	2490	376	48	1210	109	420	30	97	18	1	56	82.4	1496	1	1	3	26	1630	
10809	.9	5780	138	1	62	.9	1	9130	7.4	9	84	26150	3100	1	2140	418	40	920	89	330	22	69	16	1	36	40.4	831	1	1	3	37	1520	
10810	.9	5640	125	1	78	1.3	1	5790	15.4	11	101	34240	3100	1	1890	252	49	1140	119	500	29	90	16	1	36	43.3	1457	1	1	2	21	2350	
10811	1.1	9490	135	5	69	1.5	2	6420	11.2	13	121	41720	4890	1	2250	247	56	1190	128	660	34	109	16	1	89	61.5	1296	1	1	3	21	1720	
10812	.8	8850	68	3	73	1.4	1	7540	3.4	6	51	23060	4600	1	2330	203	53	2390	78	690	30	54	18	3	37	25.4	565	1	1	2	33	710	
10813	.7	7490	114	2	87	.9	1	18630	9.3	8	79	29620	3890	1	2480	520	53	2380	105	820	22	85	49	1	35	49.4	927	1	1	3	39	1420	
10814	.6	7400	174	2	47	1.2	1	5820	14.0	11	85	32390	3850	1	1420	174	57	2340	113	1080	20	103	14	1	39	55.3	1275	1	1	3	29	1375	
10815	.3	7770	157	2	50	1.2	1	5710	9.9	9	78	30230	4090	1	1650	190	55	3740	103	900	38	98	15	1	35	55.0	978	1	1	2	39	1600	
10816	.2	7920	252	2	48	1.4	1	5560	13.0	11	87	38130	4300	1	1350	169	52	2140	86	1110	17	105	15	1	43	54.0	1264	1	1	2	27	1630	
10817	.2	5220	174	1	35	1.0	1	3170	3.1	13	79	40360	2960	1	600	138	35	5400	77	730	52	99	7	1	40	30.5	576	1	1	1	29	1245	
10818	12.8	6350	202	2	49	1.2	1	4050	8.1	10	77	32090	3340	1	860	122	48	4520	101	920	51	102	11	1	38	44.8	873	1	1	2	40	765	
10819	7.9	5620	118	1	61	1.3	1	2520	9.0	6	54	25070	3250	1	720	98	42	3070	68	510	31	70	7	1	33	28.1	795	1	1	2	39	645	
10820	7.1	7330	240	2	58	1.8	1	3880	3.3	10	71	34240	4030	1	1060	178	69	3060	114	700	50	110	9	2	53	23.4	563	1	1	3	29	875	
10821	3.9	6700	262	1	65	1.9	1	2860	.1	4	25	23040	3710	1	1250	99	79	4240	71	80	42	66	8	6	32	7.2	197	1	1	4	73	910	
10822	2.5	10550	222	7	104	2.3	2	2640	.1	3	20	18880	5470	2	1420	78	82	2490	20	90	33	33	9	3	43	6.3	194	2	2	2	36	46	780
10823	.6	7080	557	5	155	2.4	2	1580	.1	3	13	26290	3870	1	940	46	51	1280	6	80	33	33	6	4	20	1.4	220	1	2	2	29	42	835
10824	.1	7050	467	6	62	2.1	1	2340	.1	3	9	27610	3860	1	1140	56	39	1160	1	60	29	29	8	1	25	1.0	159	1	2	2	19	25	645
10825	.2	6310	242	5	73	1.6	1	4380	.1	2	10	20330	3410	1	1850	87	44	1240	6	40	23	29	14	1	21	1.6	173	1	1	2	41	4	700
10826	.2	5760	174	3	51	1.8	1	2130	.1	2	9	18580	3130	1	950	41	32	1060	21	30	24	36	7	1	21	1.3	245	1	1	1	23	1	1000
10827	.3	5840	175	3	53	2.0	2	2750	.1	2	10	16410	3160	1	1120	52	14	70	8	40	27	44	10	1	23	1.3	305	2	1	2	34	3	1830
10828	.5	5890	94	3	55	1.8	1	2360	.1	1	7	11280	3210	2	1090	37	10	70	7	30	23	24	10	1	21	.7	249	1	1	2	39	2	525
10829	.3	6110	119	3	56	1.3	1	2980	.1	2	5	13270	3260	1	1410	40	15	70	7	20	24	29	10	1	22	.7	156	1	1	3	75	2	725
10830	.4	6360	82	2	62	1.4	2	2680	.1	1	5	11530	3410	1	1880	35	9	80	3	20	20	17	11	1	23	.8	167	3	2	3	66	1	320
10831	.3	5710	94	3	69	1.3	2	1840	.1	2	6	14680	2940	1	1920	29	16	130	2	10	18	19	8	1	26	1.1	138	2	2	4	85	2	320
10832	.1	5340	187	3	42	1.8	1	3850	.1	3	6	29920	2780	1	2480	41	20	140	1	10	18	22	9	1	28	.8	126	1	1	3	63	1	535
10833	.3	5000	76	2	36	1.6	2	3390	.1	2	6	24080	2280	2	3070	32	16	190	1	10	21	18	8	1	25	1.1	91	2	2	4	96	1	355
10834	.4	9490	31	2	54	2.0	2	6300	.1	1	5	11020	3410	8	6800	65	4	340	1	40	20	6	16	1	32	1.5	105	4	2	6	147	2	195
10835	.9	18300	31	4	53	4.1	3	5330	.1	2	7	10550	5290	22	15030	48	4	110	1	40	29	3	16	3	27	2.0	191	7	1	4	61	2	240
10836	.8	23160	15	4	62	3.7	3	2320	.1	2	5	10750	5530	29	21280	45	2	80	1	30	21	2	8	2	30	2.5	120	7	6	3	55	1	165
10837	1.4	23000	18	5	69	3.7	2	5330	.1	2	23	9500	6150	25	20150	59	4	100	1	40	31	5	15	1	37	2.7	236	7	3	4	81	1	265
10838	1.2	25650	7	6	80	3.8	2	11770	.1	2	6	10910	6570	28	26500	120	1	110	1	30	21	1	30	1	36	3.4	137	7	3	4	90	1	270
10839	1.0	25170	11	7	87	3.7	3	9330	.1	2	7	9990	6930	26	23540	88	4	110	1	40	20	1	25	1	43	3.1	102	6	2	3	76	3	280
10840	1.0	27880	9	7	85	4.3	2	11070	.1	2	6	11750	6120	35	29540	108	1	110	1	30	13	1	24	1	41	3.5	161	6	4	3	67	2	185
10841	1.0	26910	9	8	75	4.1	2	9770	.1	2	6	11030	7020	28	26510	98	3	130	1	30	20	1	22	2	49	3.4	118	6	3	3	64	2	180
10842	1.0	21070	15	7	71	3.6	2	4660	.1	2	6	8560	5960	20	17730																		



**MINERAL ENVIRONMENTAL LABORATORIES**  
 (DIVISION OF ASSAYERS CORP.)

91-59

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
 CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
 705 WEST 15TH STREET  
 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
 TELEPHONE (604) 980-5814 OR (604) 988-4524  
 FAX (604) 980-9621

**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Assay Certificate


1S-0165-RA2

Company: **COPELAND REBAGLIATI & ASSOC.**  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-22-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., BC  
 2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

*We hereby certify* the following Assay of 30 ROCK samples submitted JUL-18-91 by RICHARD HASLINGER.

Sample Number	AU g/tonne	AU oz/ton
10635	.01	.001
10636	.02	.001
10637	.02	.001
10638	.01	.001
10639	.02	.001
10640	.04	.001
10641	.25	.007
10642	.14	.004
10643	.02	.001
10644	.04	.001
10645	.03	.001
10663	.01	.001
10664	.02	.001
10665	.02	.001
10666	.01	.001
10667	.01	.001
10668	.01	.001
10669	.02	.001

Certified by   
 MIN-EN LABORATORIES

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-60  
 SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 1048/9 CLAIM # : SIB 10, 33  
 LOCAL GRID : 9117.36 N / 9652.55 E GLOBAL GRID : 13502.25 N / 17817.55 E  
 LENGTH : 167.70 m INCLINATION : -46.0 degrees ELEVATION : 986.52 metres  
 OVERBURDEN : 6.00 m CASING : 6.00 metres AZIMUTH : 117.0 degrees  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/14 DATE DRILLED : 1991/07/13 CORE LOCATION: 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 10677-10742  
 10835-10851

SUMMARY LOG 91-60

From(m)	To(m)	Field Name (Legend)
0.00	6.00	CASING
6.00	8.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
8.00	23.50	RHYODACITIC FRAGMENTAL (3.0) +/- GREEN-BLACK RHYOLITIC FLOW (3.2)
23.50	30.60	CHERTY RHYOLITIC FLOW (3.7)
30.60	48.30	GREEN-BLACK RHYOLITIC FLOW (3.2) +/- RHYODACITIC FRAGMENTAL (3.0)
48.30	63.80	SULPHIDIC MUDSTONE AND CHERT (3.5) +/- BLACK CHERT AND CHERT BRECCIA (3.3)
63.80	69.50	TUFFACEOUS RHYOLITE (3.9)
69.50	71.50	TUFFACEOUS RHYOLITE, LAPILLI, BRECCIA (3.9L, 8x)
71.50	76.00	TUFFACEOUS RHYOLITE (3.9)
76.00	82.50	RHYODACITIC FRAGMENTAL (3.0), RHYODACITIC FLOW (3.1)
82.50	93.00	BLACK CHERT - CHERT BRECCIA (3.3)
93.00	124.00	RHYODACITIC FRAGMENTAL (3.0)
124.00	130.90	RHYODACITIC FRAGMENTAL -ASH (3.0A)
130.90	133.00	CHERTY RHYOLITIC FLOW (2.7)
133.00	139.00	TUFFACEOUS RHYOLITE (3.9)
139.00	160.00	RHYODACITIC FRAGMENTAL (3.0)
	140.50 - 141.00	TUFFACEOUS RHYOLITE -ASH (3.9A)
160.00	167.70	RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
167.70		END OF HOLE.

ANALYTICAL HIGHLIGHTS 91-60

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
No significant results.						

From(m) To(m) -----Description-----

0.00 6.00 CASING  
 6.00 8.00 TUFFACEOUS RHYOLITE -SERICITE (3.9a)  
 8.00 23.50 RHYODACITIC FRAGMENTAL (3.0) +/- GREEN-BLACK RHYOLITIC FLOW (3.2)

Lithology <6.0>-<17.0>  
 -Medium to dark, colour is due to the light grey matrix surrounding dark to black angular fragments.  
 -Hard, siliceous, semi-massive unit, partially fractured, may be a flow top breccia.  
 -Quartz, quartz-feldspar veining common, and is 1 - 2% of rock by estimation.

Mineralization  
 -Isolated blebs of pyrite found close to some veins, probably related to vein emplacement.

Lithology <17.0>-<23.5>  
 -Medium to dark grey, hard unit, probably silicified. Ash and lapilli tuff with <1cm fragments dominating.

Structure  
 -Moderately foliated, with consistent foliations as follows: 18.2m: 48 degrees to c/a, 20.0m: 45 degrees to c/a, 21.6m: 43 degrees to c/a, 23.0m: 45 degrees to c/a, Upper contact: 52 degrees to c/a, Lower contact: 55 degrees to c/a

Alteration  
 -Silicified and/or albitized.

23.50 30.60 CHERTY RHYOLITIC FLOW (3.7)

Lithology  
 -See 6.0 - 17.0 metre interval. Unit thought to be a "rhyolitic breccia flow", as are numerous intervals logged in this hole.

30.60 48.30 GREEN-BLACK RHYOLITIC FLOW (3.2) +/- RHYODACITIC FRAGMENTAL (3.0)

Lithology <30.6>-<36.0>  
 -Greyish green with some yellowish grey patches; banding common, hard rock with 2mm or less ash dominating this interval, some isolated fragmental clast rich sections, but minor in importance. Unit is felsic to intermediate.

Structure  
 -Bedding or foliation well developed, measured at 32.0m: 48 degrees to c/a, 33.0m: 50 degrees to c/a, 34.0m: 34 degrees to c/a, 35.0m: 35 degrees to c/a. Contact angles for this interval at 50 degrees to c/a (top) and 36 degrees to c/a (bottom). Younging of unit is measured to be up hole, based on bedding relationships seen at the small scale.

From(m)      To(m)      -----Description-----

Lithology <36.0>-<39.0>

-Light grey, hard, siliceous, blocky, semi-massive to massive, uniform.

Structure

-Core broken up due to a fault zone. Fault zone from 36.6 - 39.3 metres. Fault cuts in the next unit.

Lithology <39.0>-<48.3>

-Greenish grey; lapilli tuff: 35% clasts, 65% matrix, clasts from ash to 3.5cm size range. Median is 1.2cm. Matrix has a higher feldspathic content, so is more sericitized.

Structure

-Weakly foliated, with the following recorded core axis to foliation measurements; 40.5m: 15 degrees, 42.7m: 25 degrees, 44.2m: 25 degrees, 46.4m: 30 degrees. Lower contact sharp (gouge zone) at 38 degrees to c/a, juxtaposing fragmentals with mudstone.

Alteration

-Weak to moderate sericite alteration, mostly evident in the matrix. Silicification as an overprint.

48.30      63.80      SULPHIDIC MUDSTONE AND CHERT (3.5) +/- BLACK CHERT AND CHERT BRECCIA (3.3)

Lithology <48.3>-<52.0>

-Black, hard, laminae dominated by pyritic rather than siltstone intervals, foliations/beds not consistent for top measurements, silicified; this interval averages 2.5 - 2% pyrite.

-Sub interval from 51.0 - 52.0m is logged as a volcanoclastic rock -grey-black, hard, siliceous, argillaceous, grades into a volcanic conformably.

Lithology <52.0>-<56.0>

-See 6.0 - 17.0 and 23.6 - 30.6 metre intervals. Probably a flow top or brecciated rhyolitic flow.

Structure

-Core is blocky, Fault zone @ 55.0 - 55.8 metres; with gouge at 55.0m, 55.4m, and 55.7m.

Lithology <56.0>-<59.0>

-See 39.0 - 48.3 metre section. Slight difference in the % of clasts.

Structure

-Moderately foliated, with core angles from 30 - 35 degrees. Lower contact sharp, upper one is indistinct.



From(m)	To(m)	Description
		<p>Mineralization                      -&lt;0.5% pyrite in this interval, unit is silicified.</p> <p>Lithology &lt;59.0&gt;-&lt;63.8&gt;                      -Brecciated rhyolitic flow; see other descriptions.</p> <p>Structure                      -Lower contact at 80 degrees to c/a.                      Veining common (networking), comprising 1.5% of the rock.</p> <p>Mineralization                      -From 61.8 - 63.4m, pyritic interval with 8% "stringer or lacework" and subhedral pyrite.</p>
63.80	69.50	<p>TUFFACEOUS RHYOLITE (3.9)</p> <p>Lithology &lt;63.8&gt;-&lt;67.0&gt;                      -Light greenish grey, siliceous, very hard, lapilli tuff, silica rich matrix, some feldspathic fragments.</p> <p>Structure                      - Foliated with c/a angles of 25 - 30 degrees, constant through the interval.</p>
69.50	71.50	<p>TUFFACEOUS RHYOLITE, LAPILLI, BRECCIA (3.9L, Bx)</p> <p>Lithology &lt;67.0&gt;-&lt;73.6&gt;, Alteration                      -Greyish grey grading into darker grey, very hard, textures obscured.                      -Rock has textures similar to the other interval with same composition (Flow breccia, etc.).</p> <p>Alteration                      -Feldspar are sericitized and carbonitized.                      -Weak to very weak sericite and carbonate alteration.</p>
71.50	76.00	TUFFACEOUS RHYOLITE (3.9)
76.00	82.50	<p>RHYODACITIC FRAGMENTAL (3.0), RHYODACITIC FLOW (3.1)</p> <p>Lithology &lt;73.6&gt;-&lt;83.8&gt;                      -Dark grey, textural relationships unclear due to alteration, colour index has increased.                      -There seems to be an increase in the amount of clast debris, which also changes the colour index.</p> <p>Alteration                      -Silicified, but carbonate alteration (weak) has imparted colour to rock and obscured the matrix.</p>

From(m)	To(m)	Description
82.50	93.00	<p>BLACK CHERT - CHERT BRECCIA (3.3)</p> <p>Lithology &lt;83.8&gt;-&lt;94.5&gt;            -Brecciated flows as described in upper sections.            -Increase in mafic content to the dacitic range.</p> <p>Alteration            -Alteration obscures textures. This alteration is moderate from 83.8 - 118.6 metres. The alteration is most notable in the unbrecciated matrix portions. Rock is still hard, and its colour index is lighter than section with tuffaceous material.</p>
93.00	124.00	<p>RHYODACITIC FRAGMENTAL (3.0)</p> <p>Lithology &lt;94.5&gt;-&lt;107.3&gt;            -Dark grey throughout, patches of stronger colour noted, and may be dacitic sections. This is thought to be a felsic to intermediate tuff/lapilli.            -Carbonate patches noted, whitish, reactive to acid, original rock still resists hard steel.</p> <p>Lithology &lt;107.3&gt;-&lt;116.0&gt;            -Dark grey, hard, brecciated flows with breccia texture. Isolated thin (&lt;20cm) tuffaceous or lapilli interbeds.            -Matrix more calcareous where the rock is a rhyodacitic to dacitic volcanic in composition.            -"Melange" interval: greenish, unsorted (like debris) clasts appear absorbed in the matrix. Lower contact distinct due to bedding and regularity of unit below this one.            -Contacts are vague.</p> <p>Lithology &lt;116.0&gt;-&lt;120.5&gt;            -Dark grey to greenish, colour changing more to green from 118.9 - 120.5 metres.            -Textures indicative of a lapilli tuff, but the alteration still obscures this texture.</p> <p>Alteration            -Weak sericitization and chloritization.</p> <p>Structure            -Shear zone 117.0 - 118.9m. c/a angles begin at 45 degrees at top contact, then collapse to 20 - 30 degrees to c/a. Clasts are brecciated in the main shear zone.</p> <p>Lithology &lt;120.5&gt;-&lt;124.0&gt;            -Medium greyish green, hard, composed of clasts, fragments, angular shards, in an aphanitic matrix. Clasts forms are subangular, and appear "suspended" in a fused matrix. Fragments are elongated, spear like, and poorly sorted.</p>

From(m)	To(m)	Description
		<p>Structure</p> <p>-Upper contact at 70 degrees to c/a, lower one at 80 degrees to c/a. Foliation at 40 degrees to c/a.</p> <p>Alteration</p> <p>-Weak to moderate sericite alteration.</p>
124.00	130.90	<p>RHYODACITIC FRAGMENTAL -ASH (3.0A)</p> <p>Lithology</p> <p>-Light greenish grey, colours alternate due to compositional changes. Variable lapilli and ash rich sections throughout the logged interval, and these contacts are easily distinguished.</p> <p>Structure</p> <p>-Foliation measured @ 4 locations at 60 degrees to c/a, small slip at 130.4m.</p> <p>Alteration</p> <p>-Moderate sericite alteration, weak silicification.</p>
130.90	133.00	<p>CHERTY RHYOLITIC FLOW (2.7)</p> <p>Lithology &lt;130.9&gt;-&lt;134.2&gt;, Alteration</p> <p>-See description of similar breccias above the 94.5 metre mark.</p> <p>-Differences in this interval include the presence of chloritic, sericitic partings, weak to very weak sericitic alteration, more feldspathic material.</p> <p>Mineralization</p> <p>-Isolated pyritic zones which have from 0.5 - 1% pyrite. Probably fracture filling (syngenetic).</p> <p>-Veining &lt;1% common, upper contact at 45 degrees to c/a.</p>
133.00	139.00	<p>TUFFACEOUS RHYOLITE (3.9)</p> <p>Lithology &lt;134.2&gt;-&lt;139.0&gt;</p> <p>-Uniform light "emeraldish" green, very fine grained to aphanitic, grain size uniform, bedding present in upper and lower sections, &lt; 3% fragments, fragments that are present are in one bed, and are dacitic in composition.</p> <p>Structure</p> <p>-Upper contact at 45 degrees, lower contact at 60 degrees, bedding at 135.2m: 38 degrees to c/a, 136.0m: 35 degrees to c/a, 137.6m: 50 degrees to c/a, 138.7m: 60 degrees to c/a.</p> <p>Alteration</p> <p>-Sericitized, moderate alteration, weak moderate silica alteration.</p>

From(m)	To(m)	Description
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139.00	160.00	RHYODACITIC FRAGMENTAL (3.0) 140.50 - 141.00 TUFFACEOUS RHYOLITE -ASH (3.9A)
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## Lithology &lt;139.0&gt;-&lt;151.0&gt;

-Greenish grey to dark grey, colour varies due to mineralogy changes. Basically an ash fall, with banded - layered <1m to 1cm intervals throughout; isolated fragmental layers @ 141.6 to 142.3m, 145.6 to 146.2m, 149.0 to 151.0m (lower contact). Unit is distinct from upper unit due to textural banding (dirty grey to black layers alternating with greenish layers) clastic content (or dark ash?), and isolated fragmentals. Alteration is not strong as is the previous unit.

## Alteration

-Weak to very weak sericitic alteration, weak to moderate silica alteration, very weak patchy carbonate alteration, giving a spotted appearance to some intervals of core.

## Structure

-Bedding measurements @ 139.0m -60 degrees, 141.6m -62 degrees, 144.5m -75 degrees, 145.8m -68 degrees, 149.5m -70 degrees. These are measurements to c/a.

## Lithology &lt;151.0&gt;-&lt;162.0&gt;

-Dark grey to black, banded, some sections have higher ash than fragmental content. Ash is 60 - 65% of unit, 35 - 40% is mixed clastic and volcanic subangular debris. The fragments are very similar to the unit below the mudstone, and may be derived from a hybrid volcanoclastic facies. Textural and fabric changes are common, and the % of ash increases down hole. Ash is dark grey to black from 158.0 to 162.0 metres.

## Structure

-Bedding angles to c/a: 153.5m -62 degrees, 154.5m -60 degrees, 156.8m -58 degrees, 158.0m -55 degrees, 159.2m -45 degrees. Lower contact at 60 - 65 degrees. Lost 50 cm of core from 154.0 - 156.0m due to some weak fault slips.

## Alteration

-Very weak to negligible sericite alteration, weak to moderate silica alteration.

## Mineralization

-Unmineralized, veining -quartz-feldspar, makes-up 0.25% of rock. These veins run at various angles to c/a, and cluster around 4mm in width.

From(m)	To(m)	Description
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160.00	167.70	RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
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## Lithology &lt;162.0&gt;-&lt;167.7&gt;

- Light to medium grey, very hard, siliceous, aphanitic, lesser breccia fragments in "matrix", impurities / colour changes related to breccia development. See sub-interval for further description.
- Sub-interval: Sericitized - Dacitic fragmental volcanic or interflow sediment. Matrix is darker green, while the fragments are lighter green, foliated unit.

## Structure

- Massive to semi-massive; foliation in sericite (dacitic tuff?) member is at 45 degrees to c/a, contacts of sericitic unit @ 40 and 55 degrees respectively.

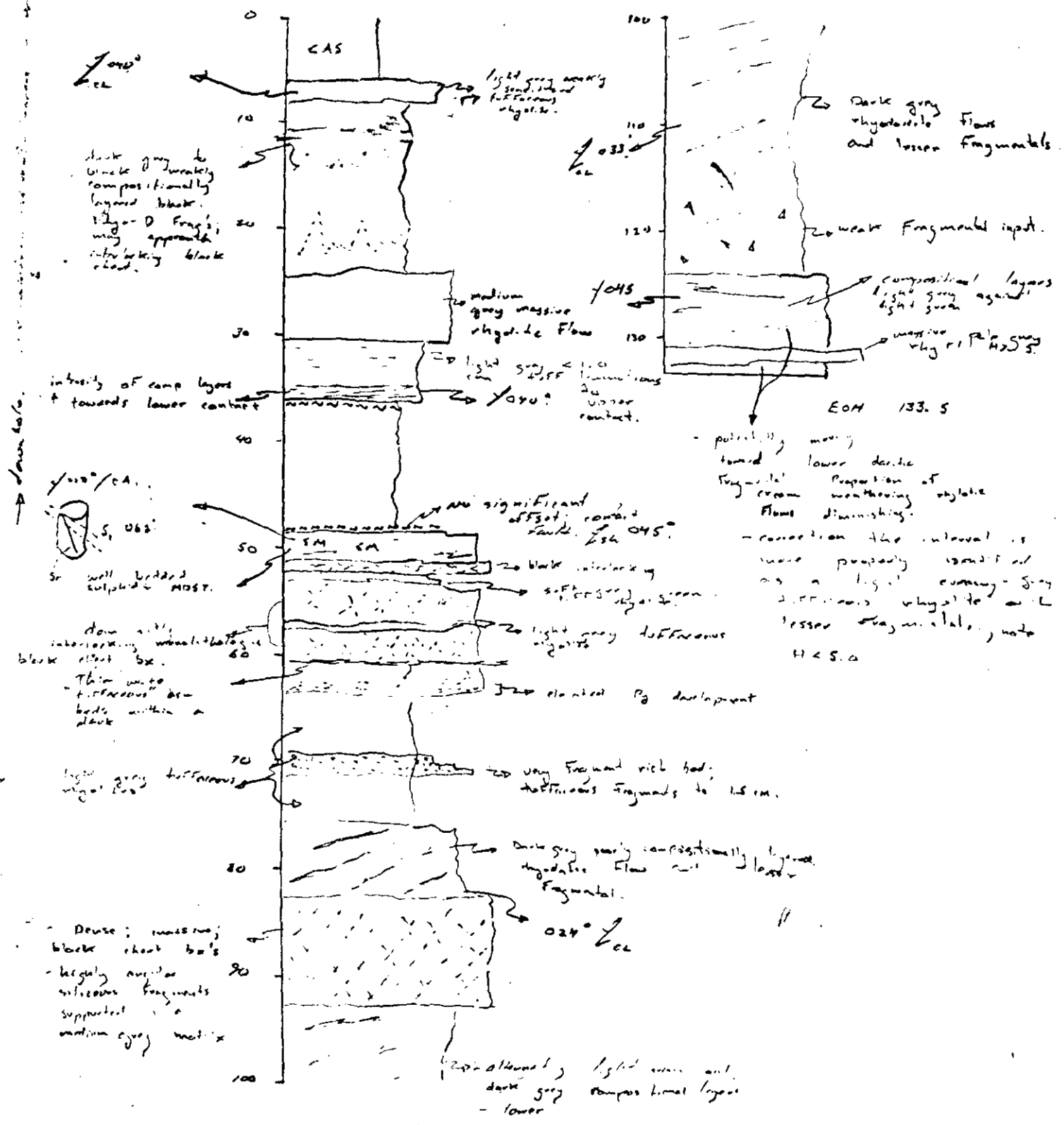
## Alteration

- Silicification of unit; networking quartz-feldspar are veining through the rhyolite, constituting 1-3% of rock volume. Sericitic unit (162.7 - 163.6m) is much softer than the main rock body, degrees of alteration is intense. Original texture (Ash tuff?) is barely visible.

## Mineralization

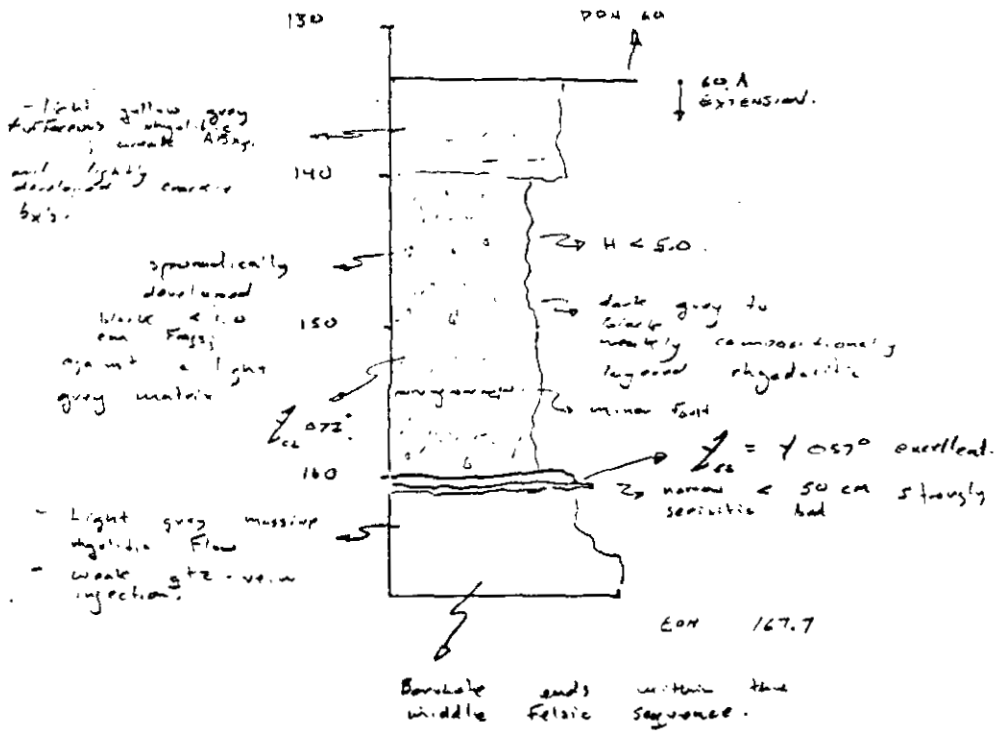
- < 0.25% pyrite; 1 cube of euhedral pyrite @ 164.9m is 6-8cm long.

167.70	END OF HOLE.
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Note: light alteration and sulphide development near the base

DDN 60A  
(60 extension)



## AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

## - SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91-60	10677	6.00	8.00	2.00	-	-	2	-	-	0.7	24	3	101	180	5	32	161	12740	5920	
91-60	10678	8.00	10.00	2.00	-	-	5	-	-	0.4	13	1	61	155	5	29	135	12620	6000	
91-60	10679	10.00	12.00	2.00	-	-	4	-	-	0.6	40	1	40	200	11	25	101	13370	6400	
91-60	10680	12.00	14.00	2.00	-	-	2	-	-	0.6	142	1	22	265	7	21	85	9680	10750	
91-60	10681	14.00	16.00	2.00	-	-	3	-	-	0.9	29	1	34	265	8	21	123	10170	19810	
91-60	10682	16.00	18.00	2.00	-	-	3	-	-	0.9	17	1	67	150	6	22	95	6740	19800	
91-60	10683	18.00	20.00	2.00	-	-	2	-	-	1.0	14	1	81	135	5	24	101	5670	19080	
91-60	10684	20.00	22.00	2.00	-	-	2	-	-	0.7	9	1	70	130	4	23	99	5990	12480	
91-60	10685	22.00	24.00	2.00	-	-	6	-	-	0.8	17	1	60	180	5	22	103	6890	12890	
91-60	10686	24.00	26.00	2.00	-	-	1	-	-	0.8	18	2	44	405	5	18	106	7090	11660	
91-60	10687	26.00	28.00	2.00	-	-	3	-	-	0.5	17	1	38	500	6	23	114	9870	8410	
91-60	10688	28.00	30.00	2.00	-	-	2	-	-	0.6	11	1	49	320	6	21	119	8570	9920	
91-60	10689	30.00	32.00	2.00	-	-	4	-	-	0.8	12	1	56	200	6	24	111	7030	13780	
91-60	10690	32.00	34.00	2.00	-	-	2	-	-	0.7	12	1	124	215	5	24	110	7820	11150	
91-60	10691	34.00	36.00	2.00	-	-	5	-	-	1.1	16	4	58	245	7	25	89	8860	29100	
91-60	10692	36.00	38.00	2.00	-	-	3	-	-	0.6	43	8	58	445	6	25	99	7290	7650	
91-60	10693	38.00	40.00	2.00	-	-	2	-	-	0.6	34	6	121	355	5	21	96	8670	11670	
91-60	10694	40.00	42.00	2.00	-	-	2	-	-	0.7	39	5	81	210	5	21	84	8450	6240	
91-60	10695	42.00	44.00	2.00	-	-	1	-	-	0.5	33	4	89	205	6	24	122	8100	4860	
91-60	10696	44.00	46.00	2.00	-	-	4	-	-	0.6	38	6	89	390	6	24	115	8580	5120	
91-60	10697	46.00	48.00	2.00	-	-	4	-	-	0.7	45	9	96	455	6	30	128	7590	3050	
91-60	10698	48.00	49.00	1.00	0.02	0.001	-	-	-	0.5	165	26	63	1285	17	33	250	11570	2320	
91-60	10699	49.00	50.00	1.00	0.02	0.001	-	-	-	0.2	265	51	62	1945	54	25	623	22980	2540	
91-60	10700	50.00	51.00	1.00	0.01	0.001	-	-	-	0.2	383	66	66	2440	40	23	377	31780	4470	
91-60	10701	51.00	52.00	1.00	0.01	0.001	-	-	-	0.1	382	24	65	2600	9	18	84	20420	5450	
91-60	10702	52.00	54.00	2.00	-	-	15	-	-	0.6	59	8	110	415	6	21	133	9420	6740	
91-60	10703	54.00	56.00	2.00	-	-	3	-	-	0.4	74	11	58	695	8	30	143	15910	5190	
91-60	10704	56.00	58.00	2.00	-	-	2	-	-	0.7	106	11	109	540	7	29	157	12520	1530	
91-60	10705	58.00	60.00	2.00	-	-	1	-	-	0.7	48	8	78	645	7	26	129	11820	6810	
91-60	10706	60.00	61.80	1.80	-	-	3	-	-	0.5	61	10	47	445	6	17	104	14790	9660	
91-60	10707	61.80	63.40	1.60	-	-	3	-	-	0.1	267	22	18	660	9	39	82	63550	5340	
91-60	10708	63.40	66.00	2.60	-	-	4	-	-	0.5	38	6	36	270	5	18	116	11730	5140	
91-60	10709	66.00	68.00	2.00	-	-	1	-	-	0.5	42	6	45	370	6	29	189	15390	4300	
91-60	10710	68.00	70.00	2.00	-	-	1	-	-	1.0	23	3	31	210	4	30	101	9240	19070	
91-60	10711	70.00	72.00	2.00	-	-	2	-	-	0.8	21	3	27	175	4	23	91	8310	18550	
91-60	10712	72.00	74.00	2.00	-	-	3	-	-	1.1	13	2	61	235	5	24	91	8470	26590	
91-60	10713	74.00	76.00	2.00	-	-	1	-	-	1.3	16	3	32	205	5	25	98	13040	50930	
91-60	10714	76.00	78.00	2.00	-	-	2	-	-	1.1	15	3	47	140	5	21	97	10400	14070	
91-60	10715	78.00	80.00	2.00	-	-	6	-	-	0.8	16	3	72	190	6	29	94	8730	8570	
91-60	10716	80.00	82.00	2.00	-	-	2	-	-	0.6	13	2	32	125	4	19	92	8050	5550	
91-60	10717	82.00	84.00	2.00	-	-	2	-	-	0.6	15	3	45	105	5	20	94	8410	6900	
91-60	10718	84.00	86.00	2.00	-	-	3	-	-	0.9	17	3	27	165	5	25	88	7990	15110	
91-60	10719	86.00	88.00	2.00	-	-	1	-	-	0.8	18	3	34	145	6	27	89	7310	11570	
91-60	10720	88.00	90.00	2.00	-	-	2	-	-	0.6	21	4	17	195	6	25	67	7930	9310	
91-60	10721	90.00	92.00	2.00	-	-	2	-	-	0.7	29	6	24	250	6	25	97	10810	8470	
91-60	10722	92.00	94.00	2.00	-	-	4	-	-	1.2	15	3	28	150	5	20	63	10010	36660	
91-60	10723	94.00	96.00	2.00	-	-	1	-	-	1.3	18	3	33	175	5	21	83	11360	29640	
91-60	10724	96.00	98.00	2.00	-	-	2	-	-	1.3	24	4	42	205	5	21	94	11570	33190	
91-60	10725	98.00	100.00	2.00	-	-	2	-	-	1.2	26	3	37	115	6	25	88	9300	24420	
91-60	10726	100.00	102.00	2.00	-	-	3	-	-	0.9	21	3	39	135	5	24	98	12170	18570	
91-60	10727	102.00	104.00	2.00	-	-	2	-	-	0.9	12	2	37	175	6	18	106	9480	14160	



## AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

## - SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91-60	10728	104.00	106.00	2.00	-	-	1	-	-	0.9	15	3	30	240	5	23	111	9780	13830	
91-60	10729	106.00	108.00	2.00	-	-	3	-	-	0.8	21	4	26	235	5	21	101	11930	7380	
91-60	10730	108.00	110.00	2.00	-	-	3	-	-	1.0	23	5	24	160	5	25	107	9940	9160	
91-60	10731	110.00	112.00	2.00	-	-	5	-	-	0.8	20	4	31	140	5	22	115	9340	6400	
91-60	10732	112.00	114.00	2.00	-	-	4	-	-	1.1	25	5	20	120	6	21	90	12610	9750	
91-60	10733	114.00	116.00	2.00	-	-	2	-	-	1.2	27	4	38	110	5	25	84	10170	18750	
91-60	10734	116.00	118.00	2.00	-	-	7	-	-	1.1	14	6	30	210	5	25	99	13160	13050	
91-60	10735	118.00	120.00	2.00	-	-	2	-	-	0.8	12	3	32	155	6	22	105	11050	3910	
91-60	10736	120.00	122.00	2.00	-	-	1	-	-	0.9	19	4	27	120	6	22	84	9650	9390	
91-60	10737	122.00	124.00	2.00	-	-	1	-	-	0.9	14	2	39	105	5	28	95	11410	1780	
91-60	10738	124.00	126.00	2.00	-	-	2	-	-	0.7	22	1	52	395	6	28	111	10260	1910	
91-60	10739	126.00	128.00	2.00	-	-	2	-	-	0.7	18	1	57	195	5	21	120	8520	4060	
91-60	10740	128.00	130.00	2.00	-	-	2	-	-	0.7	21	1	60	355	5	28	185	10670	5210	
91-60	10741	130.00	132.00	2.00	-	-	1	-	-	0.6	80	2	29	400	5	24	112	9170	4800	
91-60	10742	132.00	133.50	1.50	-	-	1	-	-	0.6	109	4	18	465	5	19	113	7580	5180	
91-60	10835	133.80	136.00	2.20	-	-	2	-	-	0.9	31	3	53	240	7	29	191	10550	5330	
91-60	10836	136.00	138.00	2.00	-	-	1	-	-	0.8	15	2	62	165	5	21	120	10750	2320	
91-60	10837	138.00	140.00	2.00	-	-	1	-	-	1.4	18	5	69	265	23	31	236	9500	5330	
91-60	10838	140.00	142.00	2.00	-	-	1	-	-	1.2	7	1	80	270	6	21	137	10910	11770	
91-60	10839	142.00	144.00	2.00	-	-	3	-	-	1.0	11	1	87	280	7	20	102	9990	9330	
91-60	10840	144.00	146.00	2.00	-	-	2	-	-	1.0	9	1	85	185	6	13	161	11750	11070	
91-60	10841	146.00	148.00	2.00	-	-	2	-	-	1.0	9	1	75	180	6	20	118	11030	9770	
91-60	10842	148.00	150.00	2.00	-	-	4	-	-	1.0	15	2	71	125	6	22	113	8560	4660	
91-60	10843	150.00	152.00	2.00	-	-	2	-	-	0.9	9	1	64	125	5	20	125	9970	4780	
91-60	10844	152.00	154.00	2.00	-	-	1	-	-	0.9	10	1	76	185	6	28	109	10890	4430	
91-60	10845	154.00	156.00	2.00	-	-	2	-	-	0.9	16	2	87	215	6	26	128	9870	1280	
91-60	10846	156.00	158.00	2.00	-	-	1	-	-	0.9	17	1	77	210	5	25	136	10220	1910	
91-60	10847	158.00	160.00	2.00	-	-	2	-	-	1.2	10	1	108	240	8	33	122	12460	4090	
91-60	10848	160.00	162.00	2.00	-	-	1	-	-	1.0	1	1	102	205	6	35	164	14940	7890	
91-60	10849	162.00	164.00	2.00	-	-	2	-	-	1.0	25	2	71	225	5	30	152	9020	8610	
91-60	10850	164.00	166.00	2.00	-	-	1	-	-	0.8	48	2	48	290	6	17	129	5410	10090	
91-60	10851	166.00	167.70	1.70	-	-	3	-	-	0.8	24	3	26	160	4	24	80	2700	4140	



**MIN-EN LABORATORIES**  
 (DIVISION OF ASSAYERS CORP.)

71-60

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
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 SMITHERS, B.C. CANADA V0J 2N0  
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Assay Certificate

1S-0165-RA2

Company: COPELAND REBAGLIATI & ASSOC.  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-22-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., BC  
 2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

*We hereby certify* the following Assay of 30 ROCK samples  
 submitted JUL-18-91 by RICHARD HASLINGER.

Sample Number	AU g/tonne	AU oz/ton
10698	.02	.001
10699	.02	.001
10700	.01	.001
10701	.01	.001

Certified by   
 MIN-EN LABORATORIES

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD.		91-61
SIB PROPERTY		DIAMOND DRILL LOG
NTS MAP # : 104B/9	CLAIM # : SIB 12, 33	
LOCAL GRID : 8983.50 N / 9648.89 E	GLOBAL GRID : 13384.36 N / 17754.03 E	
LENGTH : 158.50 m	INCLINATION : -46.5 degrees	ELEVATION : 1005.07 metres
OVERBURDEN : 2.13 m	CASING : 2.13 metres	AZIMUTH : 116.5 degrees
LOGGED BY : Paul Lawnikanis	DRILLED BY : J.T. Thomas	ASSAYING BY : Min-En Labs
DATE LOGGED : 1991/07/15	DATE DRILLED : 1991/07/14	CORE LOCATION: 86+30 N, 96+70 E
Y/M/D	Y/M/D	SAMPLE NO. SERIES : 10743-10834

SUMMARY LOG 91-61

From(m)	To(m)	Field Name (Legend)
0.00	2.13	CASING
2.13	5.00	RHYODACITIC FRAGMENTAL (3.0) +/- RHYODACITIC FLOW (3.1)
5.00	24.00	TUFFACEOUS RHYOLITE -ASH (3.9A) +/- RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
24.00	25.00	TUFFACEOUS RHYOLITE -ASH (3.9A)
25.00	30.20	BLACK SULPHIDIC MUDSTONE (2.7)
30.20	38.00	RHYOLITE FLOW (AUTOBRECCIATED) -SERICITE (3.8a)
38.00	61.00	RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
61.00	89.70	RHYOLITE FLOW (AUTOBRECCIATED) -SERICITE (3.8a), TUFFACEOUS RHYOLITE -SERICITE (3.9a)
89.70	101.00	GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA -SERICITE (3.4a)
101.00	115.00	RHYODACITIC FRAGMENTAL (3.0) +/- BLACK CHERT - CHERT BRECCIA (3.3)
115.00	136.00	SULPHIDIC MUDSTONE AND CHERT (3.5) 125.0 TURBIDITIC MUDSTONE (3.6) (Thin)
136.00	146.50	RHYODACITIC FRAGMENTAL (3.0) +/- BLACK CHERT - CHERT BRECCIA (3.3)
146.50	158.50	TUFFACEOUS RHYOLITE PYRITE -SERICITE (3.9 Py, a)
158.50		END OF HOLE.

ANALYTICAL HIGHLIGHTS 91-61

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
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No Significant results.

From(m)	To(m)	-----Description-----
0.00	2.13	CASING
2.13	5.00	RHYODACITIC FRAGMENTAL (3.0) +/- RHYODACITIC FLOW (3.1)
5.00	24.00	TUFFACEOUS RHYOLITE -ASH (3.9A) +/- RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
24.00	25.00	TUFFACEOUS RHYOLITE -ASH (3.9A)
25.00	30.20	BLACK SULPHIDIC MUDSTONE (2.7)

## Lithology

-Medium and light grey, darker grey below 15.0m. Siliceous, very hard, partially mottled texture or staining on surface. The 2.13 - 13.3m section is more "flow like", with small sections of breccia or broken material, while from 13.3 - 30.2 the rock is more of a breccia type rhyolite with numerous thin interbeds of tuff like material (may be interflow tuffs or sediments). The matrix is glassy - hard, with breccia or sometimes feldspathic material embedded within. Texturally there are indicative of viscous flows.

-Flow interbeds @ 14.3 - 14.7m, 18.7 - 19.0m, 24.0 - 24.3m, 29.6 - 30.2m contact.

-Fragmental volcanic (dacitic) from 10.0 - 11.5 metres, 50% clasts, 50% matrix, weakly sericitic.

## Structure

-Rock is generally semi-massive to massive -unfoliated, broken, blocky core from 6.8 - 10.0 metres.

## Alteration

-Very weak spotty carbonate alteration, patchy, noted on feldspathic fragments. Silicified rock.

30.20    38.00    RHYOLITE FLOW (AUTOBRECCIATED) -SERICITE (3.8a)

## Lithology &lt;30.2&gt;-&lt;36.0&gt;

- Greenish grey - white, very hard, siliceous, aphanitic, devoid of internal structure or depositional textures.

-Phyric dyke (Breccia type) @ 33.3 - 22.47m. Sharp contacts at 55 degrees to c/a, breccia texture; 0.5 - 1% pyrite.

## Structure

-Massive, upper contact at 70 degrees to c/a, lower contact not distinct; weakly to very weakly sericitized.

## Alteration

-Silicified, but previous very weak to weak sericitic alteration indicates the rock may be a rhyodacite.

38.00    61.00    RHYOLITE FLOW (AUTOBRECCIATED) (3.8)

## Lithology &lt;36.0&gt;-&lt;48.8&gt;

-See 2.1 - 30.2 metre interval. Silicified, semi-massive to massive, small intervals of either interflow sediments or ash/fragmental tuff. Volcaniclastic material. Most conspicuous aspect of this interval is the networking of quartz, quartz-feldspar veining.

From (m)	To (m)	-----Description-----
----------	--------	-----------------------

-Intermediate tuff @ 43.0 - 44.0m, contacts at 45 degrees to c/a. Silicified.

Alteration

-2-3% veining, 1 - 2mm range, throughout; hard, part of silicification process. Post silica carbonate stage. Carbonate rich veins are from 65 - 80 degrees to c/a, associations include quartz, green chlorite, and pyrite. Carbonate alteration patchy, as with other interval.

Structure

-Lower contact 47.0 - 48.8m, siliceous flow; at 73 degrees to c/a.

Lithology <48.8>-<53.6>

-Grey green, hard, 50 - 60% clasts, some up to bomb size, felsic (quartzose fragments), in a more sericitic matrix, unit also resembles a rhyolitic breccia, textures are vaguely visible. But fragmental ash textures are visible. Clasts more siliceous, while matrix is more feldspathic, giving <bland greenish hue to rock. Explosive events due to fragments to 6 - 8cm (quartzose), most fragments are 3 - 4cm in width.  
-Very thin dyke @ 49.5 - 49.6m -10cm sharp contacts (Breccia dyke).

Structure

-Weak foliations noted: 50.2m -75 degrees, 50.9m -45 degrees, 53.3m -62 degrees. Lower contact at 70 degrees to c/a.

Alteration

-Alteration: weak sericite in matrix, silicification overprint, patchy late carbonate alteration.

Lithology <53.6>-61.0>

-See both 2.1 - 30.2 and 36.0 - 48.8 metre intervals. This interval somewhat more chaotic, with more sericitic alteration (implying composition change), more internal textural changes, possibly representing a mixed fragmental and flow breccia depositional sequence. Siliceous chert? at 55.7 - 55.9m, and 58.5 - 59.0m -bedded chert, grey, very hard. Lower contact @ 35 degrees to foliation / c/a.

61.00    89.70    RHYOLITE FLOW (AUTOBRECCIATED) -SERICITE (3.8a), TUFFACEOUS RHYOLITE -SERICITE (3.9a)

Lithology

-Greyish green, yellowish green, light green - all these variations common. Complex interval that begins with lapilli and bomb size fragments, then decreases to lapilli size. Matrix also changes gradationally from felsic to intermediate, based on the degree of sericite alteration. Fragments range from 0.25 cm to 10cm, but only 8 bomb size fragments noted between 61.0 and 75m. Common size range is 1 - 1.5cm. Clasts are more felsic in upper 5m, then the more common "dacitic" clasts are present. Matrix is most often clouded, aphanitic to very fine grained. Degree of shearing / foliation and sericitic / siliceous alteration has obscured the textural relationships.

From(m)      To(m)      -----Description-----

Structure

-Weak to local moderate, rare strong foliations; variable; transposed (refolded) foliation common. Elongation, flattening, and cataclastises of fragments noted in some intervals. Foliations: 61.5m -55 degrees, 62.8m -45 degrees, 64.3m -0-015 degrees, undulating - plastic zone, 66.5m -42 degrees, 69.6m -35 degrees, 74.5m -30 degrees, 76.5m -42 degrees, 77.2m -50 degrees, 78.8m -45 degrees, 78.9 - 84.6m : transposed foliations, commonly 2nd order bends, waves; main foliation @ 65 - 80 degrees to c/a (possible folded structure in this unit, due to later foliation or bedding in the mudstone) or due to the angle / azimuth of hole relative to dip of unit; the features have been exaggerated.

Alteration

-Weak to moderate sericite alteration, alteration appears to crosscut the stratigraphy in numerous places: 81.6 - 82.0m, 83.8 - 84.1m. Silicification overprints the earlier sericitic alteration, but unit is not as hard as the upper portions.

Mineralization

-Trace to 0.25% pyrite noted, pyrite is very fine grained.

Sub-intervals, note: Dyke rock breccia? @ 72.7m (0.75cm vein); 76.85m -8cm section with 3% pyrite; 77.4m -1.5cm band, isolated mudstone or black fragments begin at 82.0m; suspended and assimilated into the sericitic matrix. Indicating tops up hole; since unit below is a more volcaniclastic fragmental.

89.70      101.00      GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA -SERICITE (3.4a)

Lithology <89.7>-<95.4>

-Medium grey, with green - yellow matrix. Mixture of volcanic green - yellow (sericitized) clasts with dark grey to black clasts. Chaotic, unsorted, unoriented relationships to foliation. (These may be "mudstone" fragments that are moderately altered). Unit is about 15 - 20% black clasts, and 30 - 40% green matrix material, then the remaining component is feldspathic / siliceous? clasts.

Structure

-Upper contact at 40 degrees to c/a, lower contact @ 65 - 70 degrees to c/a. Foliations complex, indetermined.

Alteration

-Weak to moderate sericitization, with overprint of moderate silicification.

Mineralization

-Slightly more pyritic, with 0.25% subhedral pyrite.

From(m)	To(m)	Description
101.00	115.00	RHYODACITIC FRAGMENTAL (3.0) +/- BLACK CHERT - CHERT BRECCIA (3.3)

## Lithology &lt;95.4&gt;-&lt;109.5&gt;

- Greenish - yellow sericitized fragmentals with "interbeds" of darker breccia form hybrid volcanic.
- Similar to unit above except that the units are clearly separated into intermediate fragmentals and grey - black volcanic / clastic breccia (mudstone clasts embedded in a calcareous matrix). Contact angles are variable.
- 95.4 - 100.0: Intermediate volcanic: Breccia dyke intrusive with 3 - 5% pyrite @ 99.6m (7cm), and 99.8m (2 - 3cm).
- 100.0 - 101.1: Volcaniclastic fragmental.
- 101.1 - 102.4: Breccia dyke. Complex mixture of cooled fragments in a siliceous, pyritic matrix. Runs from 3 - 6% pyrite in masses.
- 102.4 - 102.9: Volcaniclastic fragmental. Small fault slip @ 102.9m (10cm wide)
- 102.1 - 107.5: Dacitic fragmental.
- 107.5 - 108.4: Volcaniclastic fragmental.
- 108.4 - 108.8: Dacitic fragmental.
- 108.8 - 109.5: Dacitic and volcaniclastic fragmentals.

## Structure

- Contact angles for rocks @ 75, 80, 75, 55 degrees, fault slip @ 102.4m, 80, 45 degrees to c/a. Lower contact with now unit is obscured by a thin breccia dyke. Internally clastic, with no distinct foliations.

## Alteration

- Dacitic fragmental is moderately sericitized and then silicified (moderately)
- Volcaniclastic is silicified, then weakly carbonatized.

## Mineralization

- Trace to 0.25% pyrite, speckled, subhedral. Pyrite richer in breccia dykes.
- Veins from 97.0 - 98.5m: quartz-carbonate veinlets -0.2 - 1cm, with sphalerite in the stockworks. Sphalerite is 1mm in size, and runs in trace quantities.
- 104.35m - 8cm quartz - carbonate gangue vein: barren, 70 - 75 degrees to c/a respectively.

## Lithology &lt;109.5&gt;-&lt;113.7&gt;

- Medium grey, very hard, mottled appearance, 20 - 30% "digested looking fragments" in a hard, aphanitic siliceous matrix; isolated more feldspathic clasts noted, or these textures may be a weakly brecciated flow?. From 112.0 - 112.8m: siliceous chert or ash flow tuff, uniform grey, partially banded, very hard. Lower contact +/- defined by fault gouge from 113.7 - 113.8m.

## Structure

- Except for the ashfall tuff banding @ 55 0 60 degrees to c/a, no foliations or bedding noted.

From(m)	To(m)	Description
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## Alteration, Mineralization

- Silicification of unit: moderate to strong; 112.0 - 112.8m -0.75% pyrite, fracture filling; 112.8 - 113.7m -3% braided pyrite, fracture filling also.
- Note: from 112.8 - 113.7: the unit has amygduloidal or spheroid like features that are partially filled with carbonate. Origin unknown.

115.00	136.00	SULPHIDIC MUDSTONE AND CHERT (3.5) 125.0 TURBIDITIC MUDSTONE (3.6) (Thin)
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## Lithology &lt;113.7&gt;-&lt;133.7&gt;

- Black, hard, blocky in places, bedding laminae common, consisting of laminae of pyritic material in a black matrix of "mudstone". Widths greatly exaggerated due to the bedding angles in core. Younging directions based on flame structures indicate tops are uphole; this is true for the laminae below the fault zone as well. Carbonaceous and pyrobitumen laminae common from 125.0 - 129.7 metres.

## Structure

- Foliations are at 0 - 5 degrees to c/a from 114.0 - 125.0 metres. Unit width is very small; and no reason except dip of beds may explain this.
- Fault zone from 125.0 - 129.7 metres. Gouge numerous intervals, rubbly, broken core throughout the zone.
- Foliations (bedding) at 130m -8 degrees to c/a; at 130.5m -45 degrees to c/a; at 133.7m -30 degrees to c/a.

## Alteration

- Silicified, unit is hard throughout.

## Mineralization

- Syngenetic pyrite, confined to laminae, 2 - 3% of unit, very fine grained (silt size).

136.00	146.50	RHYODACITIC FRAGMENTAL (3.0) +/- BLACK CHERT - CHERT BRECCIA (3.3)
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## Lithology &lt;133.7&gt;-&lt;146.5&gt;

- Grey, black, dark grey, mixture of felsic or intermediate fragmental material with clastic components -primarily mudstone clasts, silt? and argillaceous debris. Isolated beds of more "volcanic looking" rocks present to contrast the darker intervals.

## Structure

- Weakly foliated in the fragmental sections. 20 to 25 degree foliations noted from 133.7 - 138.0, 30 to 35 degree from 143.3 to 145.0 metres, and 32 to 35 degree from 145.0 to 146.5m.
- Lower contact is gradational.



From(m) To(m) -----Description-----

Alteration  
 -Sericitic alteration common, weaker (weak to moderate) silicification overprint.  
  
 Mineralization  
 -Pyritic 2 - 4% from 133.7 to 138.8m; then < 1% from 138.8 to 146.5 metres.

146.50 158.50 TUFFACEOUS RHYOLITE PYRITE -SERICITE (3.9 Py, a)

Lithology <146.5>-<155.7>  
 -Mottled greenish-grey to yellowish grey, hard to very hard, fining up, with more ash rich sections from 146.5 to 148.0, then a fragment/ash section below that. Average of 40 to 45% fragments, with 3 to 1 intermediate to felsic fragments, and a mixed sericitic, siliceous matrix. Matrix is fine grained with ash size (aphanitic) component mixed in.

Structure  
 -Semi massive to weakly foliated, contact zone at 40 degrees to c/a. Lower contact at 70 degrees to c/a.

Alteration  
 -Sericitized -weak to moderate, especially visible on feldspathic clasts and matrix. Silicification (moderate) as an overprint.

Mineralization  
 -Pyritic from 153.5 to 155.7 metres. Pyrite concentrated as masses around clasts, and in some cases on clasts, some stringer like pyrite. Percentage runs from 2 - 3% through zone. This does not resemble hydrothermal stringer type mineralization.

Lithology <155.7>-<158.5>  
 -Grey (medium) to very light green, very hard, breccia type flow with more viscous (massive) lava. Fragments are angular, and embedded in an opaque-aphanitic matrix. Matrix is more greenish yellow, while "clasts" -breccia pieces are fresher.

Structure  
 -Massive unit, unfoliated.

Alteration  
 -silicified, very hard, very weak sericite (earlier) alteration.

158.50 END OF HOLE.

Dark gray, black  
flows

bedding laminations  
irregularly  
preserved.

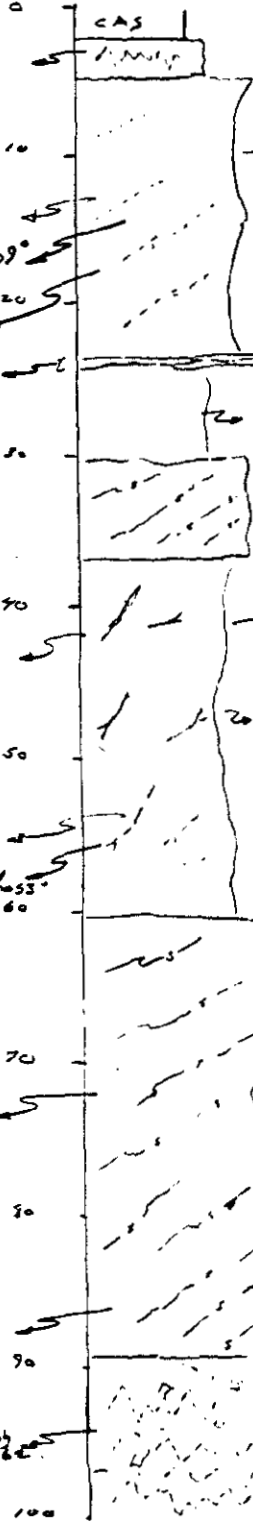
narrow

low siliceous  
Pg < 0.5%

very limited  
white quartz  
vein injection

This unit  
alleged from  
Dise 60, 62.

This interval  
correlative  
with 60, 62.



light gray  
flow banded  
Rhyolite  
Pg ash  
tuffs (Rhyolite).

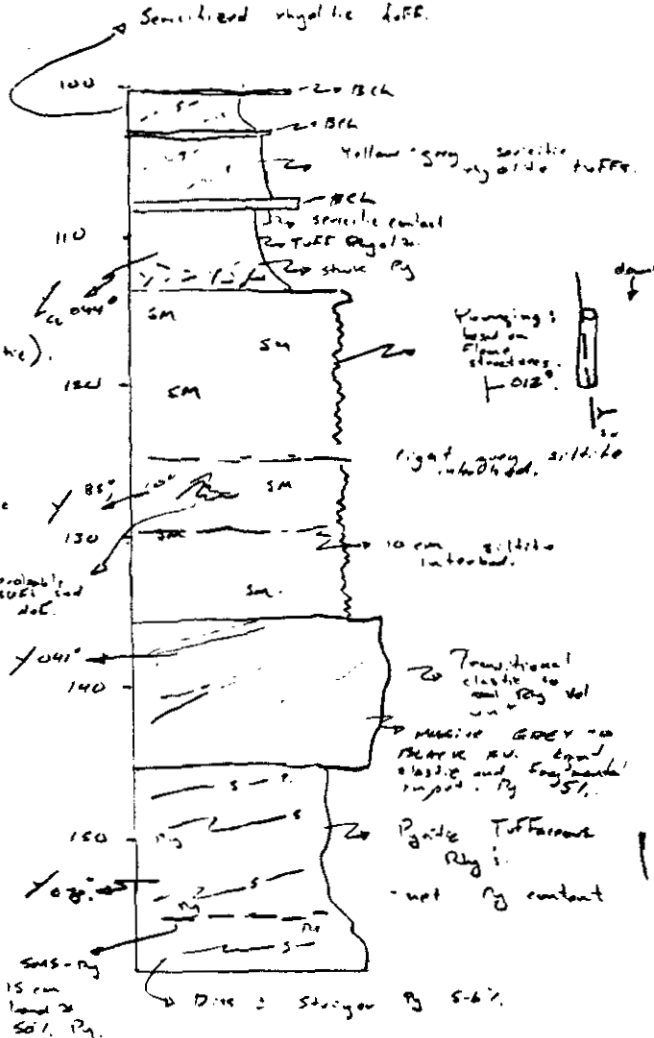
Dark gray rhyolite  
flow

This interval  
alleged from  
Dise 60, 62.

Moderate medium  
gray rhyolite  
flow  
- typically  
light gray,  
very fragment  
lamin.

Onset of lightly  
siliceous  
rhyolite; and  
basic tuff (with)  
rhyolite flows  
- well fragment  
input, moderate  
compositional  
layers

Dark gray to  
gray black; bed  
(textured) rhyolite  
and transition black  
about fragmentals.



Est 158.5

US This baseline  
demonstrates the first  
appearance of strong  
alteration within the  
Fels horizon.

The increase in  
diss + stuck Pg is  
concomitantly linked to  
an increase in

## AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

## - SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91-61	10743	2.13	5.00	2.87	-	-	1	-	-	0.5	10	1	49	115	5	22	101	7120	5010
91-61	10744	5.00	7.00	2.00	-	-	1	-	-	0.5	11	1	71	125	6	23	165	10350	6010
91-61	10745	7.00	9.00	2.00	-	-	4	-	-	0.6	17	1	105	125	6	21	172	10570	7510
91-61	10746	9.00	11.00	2.00	-	-	2	-	-	0.6	14	1	78	110	7	15	123	9470	12420
91-61	10747	11.00	13.00	2.00	-	-	3	-	-	0.6	17	1	61	105	5	18	122	7240	9070
91-61	10748	13.00	15.00	2.00	-	-	2	-	-	0.6	59	1	56	130	5	17	88	6120	9440
91-61	10749	15.00	17.00	2.00	-	-	2	-	-	0.8	34	1	31	115	6	18	87	5980	10870
91-61	10750	17.00	19.00	2.00	-	-	1	-	-	0.7	86	1	61	150	4	19	91	5580	10400
91-61	10751	19.00	21.00	2.00	-	-	3	-	-	0.3	20	1	39	135	6	19	102	7210	1770
91-61	10752	21.00	23.00	2.00	-	-	1	-	-	1.0	54	1	37	150	7	24	96	5930	5710
91-61	10753	23.00	25.00	2.00	-	-	2	-	-	0.9	16	1	56	125	5	24	103	6240	18030
91-61	10754	25.00	27.00	2.00	-	-	1	-	-	0.8	12	1	62	135	6	19	132	7750	12070
91-61	10755	27.00	29.00	2.00	-	-	2	-	-	0.7	10	1	56	100	5	21	114	8140	9460
91-61	10756	29.00	31.00	2.00	-	-	1	-	-	0.6	11	1	51	165	5	23	112	7990	8340
91-61	10757	31.00	33.00	2.00	-	-	1	-	-	0.7	14	1	37	140	6	18	91	4760	11870
91-61	10758	33.00	35.00	2.00	-	-	1	-	-	0.6	22	1	38	140	8	20	99	10400	8270
91-61	10759	35.00	37.00	2.00	-	-	2	-	-	0.4	13	1	39	100	6	22	99	7000	2450
91-61	10760	37.00	39.00	2.00	-	-	1	-	-	0.6	13	1	35	175	5	16	136	7220	8470
91-61	10761	39.00	41.00	2.00	-	-	2	-	-	0.5	15	1	27	160	6	19	93	12060	5120
91-61	10762	41.00	43.00	2.00	-	-	2	-	-	0.6	18	1	24	200	5	20	102	7630	7640
91-61	10763	43.00	45.00	2.00	-	-	1	-	-	0.7	13	1	51	135	6	28	115	11740	6950
91-61	10764	45.00	47.00	2.00	-	-	1	-	-	0.8	16	1	40	195	6	20	131	7230	4490
91-61	10765	47.00	49.00	2.00	-	-	2	-	-	0.8	18	1	16	125	7	19	74	10940	12310
91-61	10766	49.00	51.00	2.00	-	-	2	-	-	0.6	18	2	46	215	7	24	115	12150	7380
91-61	10767	51.00	53.00	2.00	-	-	2	-	-	0.9	16	3	59	220	7	22	117	8740	10320
91-61	10768	53.00	55.00	2.00	-	-	1	-	-	0.9	33	5	45	130	7	22	147	11370	6470
91-61	10769	55.00	57.00	2.00	-	-	3	-	-	0.8	35	4	23	155	6	17	82	9450	10530
91-61	10770	57.00	59.00	2.00	-	-	1	-	-	0.7	13	2	167	130	5	21	102	9210	9190
91-61	10771	59.00	61.00	2.00	-	-	2	-	-	0.6	17	1	61	195	6	20	107	12020	5100
91-61	10772	61.00	63.00	2.00	-	-	1	-	-	0.6	15	1	57	125	5	19	116	10130	6140
91-61	10773	63.00	65.00	2.00	-	-	2	-	-	0.5	21	1	59	185	5	21	132	8510	5650
91-61	10774	65.00	67.00	2.00	-	-	1	-	-	0.5	20	1	51	165	5	18	105	8980	4430
91-61	10775	67.00	69.00	2.00	-	-	2	-	-	0.5	15	2	39	170	5	19	110	6890	4240
91-61	10776	69.00	71.00	2.00	-	-	1	-	-	0.7	25	2	43	155	5	19	99	7580	5380
91-61	10777	71.00	73.00	2.00	-	-	1	-	-	0.8	29	3	45	215	5	26	115	8040	6260
91-61	10778	73.00	75.00	2.00	-	-	3	-	-	0.6	22	3	63	205	4	21	123	6960	4310
91-61	10779	75.00	77.00	2.00	-	-	2	-	-	0.5	36	5	61	260	6	23	127	8790	3280
91-61	10780	77.00	79.00	2.00	-	-	2	-	-	0.8	29	5	72	225	5	19	99	9650	10190
91-61	10781	79.00	81.00	2.00	-	-	1	-	-	0.6	23	5	62	220	5	21	124	9430	4480
91-61	10782	81.00	83.00	2.00	-	-	2	-	-	0.8	35	5	60	180	5	23	117	6970	8470
91-61	10783	83.00	85.00	2.00	-	-	4	-	-	0.6	52	6	63	165	5	21	129	5860	5000
91-61	10784	85.00	87.00	2.00	-	-	2	-	-	0.9	32	5	49	95	5	23	124	5480	13180
91-61	10785	87.00	89.00	2.00	-	-	2	-	-	0.8	81	8	49	185	5	24	99	6430	10440
91-61	10786	89.00	91.00	2.00	-	-	3	-	-	1.0	103	7	51	235	5	23	122	7710	16800
91-61	10787	91.00	93.00	2.00	-	-	1	-	-	0.8	44	4	65	135	5	19	104	5790	7910
91-61	10788	93.00	95.00	2.00	-	-	1	-	-	1.0	41	5	44	130	5	19	106	5650	10390
91-61	10789	95.00	96.70	1.70	-	-	2	-	-	0.9	39	7	52	160	5	21	104	8340	14310
91-61	10790	96.70	97.30	0.60	-	-	3	-	-	1.0	67	7	124	205	4	20	147	8370	16980
91-61	10791	97.30	98.10	0.80	-	-	16	-	-	1.0	266	9	390	150	5	22	43	10100	12190
91-61	10792	98.10	98.50	0.40	-	-	8	-	-	0.8	168	7	2187	550	4	19	344	12620	18400
91-61	10793	98.50	100.00	1.50	-	-	19	-	-	1.0	550	13	166	315	8	22	91	13180	14360

## AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

## - SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-61	10794	100.00	101.20	1.20	-	-	12	-	-	1.1	649	15	44	230	9	17	51	9640	20320
91-61	10795	101.20	102.50	1.30	-	-	4	-	-	0.8	1249	32	57	345	25	24	125	30830	24210
91-61	10796	102.50	104.00	1.50	-	-	38	-	-	0.8	689	10	33	305	6	14	52	7510	12400
91-61	10797	104.00	106.00	2.00	-	-	3	-	-	1.3	224	11	107	220	11	21	139	11050	18610
91-61	10798	106.00	108.00	2.00	-	-	3	-	-	1.0	78	6	84	350	8	21	153	9600	11210
91-61	10799	108.00	110.00	2.00	-	-	61	-	-	1.1	772	15	78	420	10	20	124	9560	13850
91-61	10800	110.00	112.00	2.00	-	-	220	-	-	3.1	620	19	86	740	9	16	76	10160	11220
91-61	10801	112.00	113.70	1.70	-	-	158	-	-	1.9	424	17	56	655	13	22	117	15940	7540
91-61	10802	113.70	114.70	1.00	0.02	0.001	0	-	-	0.1	224	50	62	1450	55	37	418	27960	4370
91-61	10803	114.70	115.70	1.00	0.01	0.001	0	-	-	0.9	233	99	89	1520	87	19	1048	30900	5620
91-61	10804	115.70	116.70	1.00	0.01	0.001	0	-	-	1.2	160	116	88	2100	99	23	1729	34970	6390
91-61	10805	116.70	117.70	1.00	0.01	0.001	0	-	-	0.9	175	122	95	1640	107	22	601	45790	7860
91-61	10806	117.70	118.70	1.00	0.01	0.001	0	-	-	0.9	128	97	121	1350	82	29	806	38830	6410
91-61	10807	118.70	119.70	1.00	0.02	0.001	0	-	-	0.8	96	89	74	1845	83	23	1277	29520	5940
91-61	10808	119.70	120.70	1.00	0.01	0.001	0	-	-	1.0	195	97	79	1630	115	30	1496	40120	7750
91-61	10809	120.70	121.70	1.00	0.01	0.001	0	-	-	0.9	138	69	62	1520	84	22	831	26150	9130
91-61	10810	121.70	122.70	1.00	0.01	0.001	0	-	-	0.9	125	90	78	2350	101	29	1457	34240	5790
91-61	10811	122.70	123.70	1.00	0.02	0.001	0	-	-	1.1	135	109	69	1720	121	34	1296	41720	6420
91-61	10812	123.70	124.70	1.00	0.02	0.001	0	-	-	0.8	68	54	73	710	51	30	565	23060	7540
91-61	10813	124.70	125.70	1.00	0.01	0.001	0	-	-	0.7	114	85	87	1420	79	22	927	29620	18630
91-61	10814	125.70	126.70	1.00	0.01	0.001	0	-	-	0.6	174	103	47	1375	85	20	1275	32390	5820
91-61	10815	126.70	127.70	1.00	0.01	0.001	0	-	-	0.3	157	98	50	1600	78	38	978	30230	5710
91-61	10816	127.70	128.70	1.00	0.02	0.001	0	-	-	0.2	252	105	48	1630	87	17	1264	38130	5560
91-61	10817	128.70	129.70	1.00	0.01	0.001	0	-	-	0.2	174	99	35	1245	79	52	576	40360	3170
91-61	10818	129.70	130.70	1.00	0.23	0.007	0	-	-	12.8	202	102	49	765	77	51	873	32090	4050
91-61	10819	130.70	131.70	1.00	0.18	0.005	0	-	-	7.9	118	70	61	645	54	31	795	25070	2520
91-61	10820	131.70	132.70	1.00	0.19	0.006	0	-	-	7.1	240	110	58	875	71	50	563	34240	3880
91-61	10821	132.70	133.70	1.00	0.07	0.002	0	-	-	3.9	262	66	65	910	25	42	197	23040	2860
91-61	10822	133.70	135.00	1.30	-	-	46	-	-	2.5	222	33	104	780	20	33	194	18880	2640
91-61	10823	135.00	137.00	2.00	-	-	42	-	-	0.6	557	33	155	835	13	33	220	26290	1580
91-61	10824	137.00	139.00	2.00	-	-	25	-	-	0.1	467	29	62	645	9	29	159	27610	2340
91-61	10825	139.00	141.00	2.00	-	-	4	-	-	0.2	242	29	73	700	10	23	173	20330	4380
91-61	10826	141.00	143.00	2.00	-	-	1	-	-	0.2	174	36	51	1000	9	24	245	18580	2130
91-61	10827	143.00	145.00	2.00	-	-	3	-	-	0.3	175	44	53	1830	10	27	305	16410	2750
91-61	10828	145.00	147.00	2.00	-	-	2	-	-	0.5	94	24	55	525	7	23	249	11280	2360
91-61	10829	147.00	149.00	2.00	-	-	2	-	-	0.3	119	29	56	725	5	24	156	13270	2980
91-61	10830	149.00	151.00	2.00	-	-	1	-	-	0.4	82	17	62	320	5	20	167	11530	2680
91-61	10831	151.00	153.00	2.00	-	-	2	-	-	0.3	94	19	69	320	6	18	138	14680	1840
91-61	10832	153.00	155.00	2.00	-	-	1	-	-	0.1	187	22	42	535	6	18	126	29920	3850
91-61	10833	155.00	157.00	2.00	-	-	1	-	-	0.3	76	18	36	355	6	21	91	24080	3390
91-61	10834	157.00	158.50	1.50	-	-	2	-	-	0.4	31	6	54	195	5	20	105	11020	6300

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M.REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ27+28  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPM	HG PPM
10740	.7	23170	21	3	60	4.3	2	5210	.1	2	5	10670	5770	30	22110	86	5	80	1	30	28	1	12	1	38	2.6	185	6	1	3	63	2	355
10741	.6	10580	80	1	29	2.1	1	4800	.1	1	5	9170	2720	14	10150	40	3	270	1	50	24	2	13	1	28	1.7	112	6	1	5	131	1	400
10742	.6	3640	109	1	18	.8	1	5180	.1	1	5	7580	1480	3	3180	32	11	480	2	20	19	4	10	1	23	1.4	113	3	1	7	180	1	465
10743	.5	4410	10	1	49	1.6	1	5010	.1	1	5	7120	2160	3	830	131	2	270	2	10	22	1	5	1	49	.7	101	3	1	4	83	1	115
10744	.5	4790	11	1	71	2.1	1	6010	.1	5	6	10350	2470	3	810	122	3	170	12	10	23	1	7	1	45	1.0	165	2	1	2	48	1	125
10745	.6	4520	17	1	105	2.3	2	7510	.1	5	6	10570	2740	3	650	131	2	150	17	10	21	1	14	1	40	1.1	172	2	1	3	67	4	125
10746	.6	3190	14	1	78	1.7	1	12420	.1	2	7	9470	3170	1	210	243	11	80	5	10	15	1	24	1	32	1.2	123	1	1	4	93	2	110
10747	.6	3750	17	1	61	2.1	1	9070	.1	2	5	7240	2760	2	360	207	3	230	5	20	18	1	15	1	42	.9	122	2	1	4	108	3	105
10748	.6	4150	59	1	56	2.5	1	9440	.1	1	5	6120	2490	2	340	144	7	380	3	10	17	1	13	1	56	1.0	88	3	1	5	124	2	130
10749	.8	3010	34	1	31	1.1	1	10870	.1	1	6	5980	1800	1	210	145	1	400	3	10	18	1	19	1	52	1.3	87	3	1	5	114	2	115
10750	.7	4740	86	1	61	2.9	1	10400	.1	1	4	5580	3610	2	320	135	4	220	2	10	19	1	20	1	48	1.0	91	2	1	3	78	1	150
10751	.3	2950	20	1	39	1.8	1	1770	.1	2	6	7210	1960	2	290	76	2	360	5	20	19	1	2	1	49	.7	102	2	1	5	131	3	135
10752	1.0	3450	54	1	37	1.6	2	5710	.1	2	7	5930	2140	2	290	82	7	510	5	10	24	1	8	1	58	1.4	96	3	1	6	140	1	150
10753	.9	5650	16	1	56	2.8	2	18030	.1	1	5	6240	3620	3	540	270	1	250	2	20	24	1	26	2	57	1.6	103	3	1	4	79	2	125
10754	.8	6830	12	1	62	2.2	1	12070	.1	1	6	7750	3590	5	910	208	6	350	2	10	19	1	17	1	63	1.3	132	4	1	5	127	1	135
10755	.7	6190	10	1	56	2.5	1	9460	.1	1	5	8140	3050	4	1030	166	1	240	1	20	21	1	12	1	53	1.1	114	3	1	4	100	2	100
10756	.6	6010	11	1	51	1.9	1	8340	.1	1	5	7990	2700	4	1100	163	5	350	2	10	23	1	9	1	58	1.2	112	3	1	5	109	1	165
10757	.7	2920	14	1	37	2.2	2	11870	.1	2	6	4760	1870	1	530	203	1	230	3	20	18	1	18	1	36	2.0	91	2	1	4	106	1	140
10758	.6	3960	22	1	38	2.0	1	8270	.1	5	8	10400	1870	3	1060	243	4	220	5	50	20	1	10	1	39	2.8	99	3	1	3	72	1	140
10759	.4	4200	13	1	39	1.5	1	2450	.1	1	6	7000	1910	3	850	101	1	330	1	10	22	1	3	1	48	.8	99	3	1	5	131	2	100
10760	.6	4270	13	1	35	1.9	1	8470	.1	1	5	7220	1960	3	880	180	5	260	1	10	16	1	8	2	48	1.2	136	3	1	4	93	1	175
10761	.5	5250	15	1	27	1.4	1	5120	.1	2	6	12060	1610	5	1570	184	1	320	1	20	19	1	4	1	56	.8	93	3	1	5	113	2	160
10762	.6	3160	18	1	24	1.1	1	7640	.1	1	5	7630	1320	2	1010	155	5	320	2	10	20	1	8	1	48	1.3	102	3	1	5	113	2	200
10763	.7	6650	13	1	51	3.3	1	6950	.1	2	6	11740	3230	4	1790	220	1	200	1	10	28	1	7	4	68	.9	115	4	1	4	81	1	135
10764	.8	3720	16	1	40	1.7	1	4490	.1	1	6	7230	2210	1	940	121	7	350	1	10	20	1	6	3	54	1.2	131	4	1	5	122	1	195
10765	.8	2090	18	1	16	.8	1	12310	.1	2	7	10940	870	1	1830	291	3	480	1	60	19	1	19	1	43	1.5	74	3	1	6	144	2	125
10766	.6	5470	18	1	46	2.8	1	7380	.1	4	7	12150	2900	2	2170	217	5	310	4	80	24	2	10	1	49	4.6	115	3	1	5	103	2	215
10767	.9	5830	16	13	59	2.5	1	10320	.1	1	7	8740	3000	7	2040	187	7	380	1	10	22	3	14	4	55	1.6	117	3	1	5	127	2	220
10768	.9	5350	33	9	45	2.6	1	6470	.1	2	7	11370	2640	7	2500	153	1	260	2	20	22	5	8	3	42	1.3	147	3	16	5	109	1	130
10769	.8	3080	35	4	23	1.1	2	10530	.1	1	6	9450	1200	4	2920	271	7	370	1	20	17	4	19	2	32	1.6	82	3	1	5	128	3	155
10770	.7	3990	13	1	167	2.0	1	9190	.1	1	5	9210	2070	2	3120	161	1	230	2	10	21	2	16	3	39	1.1	102	4	1	4	86	1	130
10771	.6	7240	17	2	61	2.0	1	5100	.1	2	6	12020	2710	7	3930	132	7	380	1	30	20	1	9	2	43	1.6	107	4	1	6	132	2	195
10772	.6	7580	15	1	57	2.9	2	6140	.1	1	5	10130	3230	6	4670	111	1	170	1	420	19	1	10	1	39	1.0	116	4	1	3	72	1	125
10773	.5	5620	21	1	59	2.0	2	5650	.1	1	5	8510	2600	4	4570	85	5	210	1	20	21	1	10	1	31	1.2	132	4	1	4	100	2	185
10774	.5	7150	20	1	51	2.4	2	4430	.1	1	5	8980	3110	5	5870	74	1	170	1	30	18	1	7	1	35	1.1	105	4	1	4	85	1	165
10775	.5	5790	15	1	39	1.9	2	4240	.1	1	5	6890	2610	4	5090	60	6	240	1	20	19	2	7	1	33	1.3	110	4	1	5	111	2	170
10776	.7	6490	25	1	43	2.1	2	5380	.1	1	5	7580	2570	5	6550	69	2	190	1	40	19	2	10	1	30	1.5	99	5	1	5	119	1	155
10777	.8	7230	29	1	45	2.1	2	6260	.1	1	5	8040	3090	5	7960	74	6	160	2	20	26	3	11	2	31	1.7	115	5	1	5	105	1	215
10778	.6	7600	22	1	63	2.5	2	4310	.1	1	4	6960	3170	6	7690	58	17	70	1	10	21	3	8	1	28	1.4	123	4	1	3	65	3	205
10779	.5	9850	36	1	61	2.8	2	3280	.1	2	6	8790	4320	7	7920	57	10	80	2	30	23	5	7	1	30	3.4	127	5	1	4	72	2	260
10780	.8	10670	29	1	72	2.3	2	10190	.1	1	5	9650	4250	9	10350	130	3	60	1	20	19	5	21	2	26	2.1	99	6	1	3	70	2	225
10781	.6	10550	23	1	62	2.3	1	4480	.1	1	5	9430	4600	9	9140	80	7	60	1	20	21	5	9	3	31	1.6	124	6	1	3	66	1	220
10782	.8	6170	35	1	60	2.1	2	8470	.1	1	5	6970	3390	2	4930	93	3	100	1	30	23	5	17	3	33	1.3	117	5	1	4	91	2	180
10783	.6	5730	52	1	63	2.3	1	5000	.1	1	5	5860	3240	1	2100	68	7	150	1	20	21	6	10	1	40	.9	129	4	1	4	97	4	165
10784	.9	4730	32	1	49	1.9	2	13180	.1	1	5	5480	2660	1	1610	275	3	220	1	10	23	5	15	3	50	1.3	124	3	1	4	91	2	95
10785	.8	4280	81	1	49	1.5	1	10440	.1	1	5	6430	2400	1	1500	285	6	200	2	10	24	8	11	1	42	1.2	99	3	1	4	90	2	185
10786	1.0	5320	103	1	51	2.1	2	16800	.1	1	5	7710	3290	1	1800	520	3	130	1	20	23	7	20	2	42	1.3	122	4	1	4	89	3	235
10787	.8	6080	44	1	65	2.0	1	7910	.1	1	5	5790	3660	1	2060	178	6	120	2	10	19</												

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

MIN-EN LABS — ICP REPORT  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ29+3  
 DATE: 91/10/1  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPM	HG PPM
10796	.8	3610	689	1	33	.9		12400	.1	2	6	7510	1990	1	1240	261	3	970	4	40	14	10	24	1	21	1.8	52	2	1	5	122	38	305
10797	1.3	12180	224	20	107	3.8	3	18610	.1	3	11	11050	6820	8	5520	579	8	100	1	70	21	11	53	6	42	3.6	139	5	2	4	66	3	220
10798	1.0	9850	78	12	84	3.8	2	11210	.1	2	8	9600	5580	6	5330	405	3	80	1	60	21	6	19	5	33	2.0	153	4	2	3	58	3	350
10799	1.1	7170	772	8	78	2.3	2	13850	.1	5	10	9560	3960	3	2690	358	5	120	5	90	20	15	24	1	32	5.5	124	3	1	3	74	61	420
10800	3.1	4360	620	5	86	1.0	2	11220	.1	3	9	10160	2390	1	730	110	3	300	4	70	16	19	19	1	38	3.2	76	2	1	6	143	220	740
10801	1.9	4520	424	6	56	1.0	1	7540	.1	3	13	15940	2380	1	910	131	10	1560	5	80	22	17	11	1	38	5.9	117	1	1	6	139	158	655
10802	.1	6510	224	1	62	2.3	1	4370	1.6	6	55	27960	3610	1	1760	121	38	3630	52	290	37	50	10	1	25	27.7	418	1	1	1	25	1450	
10803	.9	11320	233	3	89	2.8	1	5620	9.9	10	87	30900	6000	1	2220	179	64	1170	142	880	19	99	13	1	49	88.8	1048	1	1	3	24	1520	
10804	1.2	10700	160	4	88	2.8	1	6390	18.9	11	99	34970	5390	1	2670	232	78	1590	157	520	23	116	17	1	46	90.5	1729	1	1	3	22	2100	
10805	.9	13070	175	5	95	2.2	1	7860	2.2	14	107	45790	6950	2	3500	300	68	1150	116	800	22	122	24	1	54	62.0	601	1	1	2	22	1640	
10806	.9	12500	128	5	121	2.1	1	6410	4.5	11	82	38830	6580	1	2530	212	52	1580	103	800	29	97	17	1	53	68.4	806	1	1	2	23	1350	
10807	.8	10290	96	4	74	1.5	1	5940	13.0	9	83	29520	5390	1	2300	190	53	910	112	510	23	89	14	1	47	85.1	1277	1	1	3	30	1845	
10808	1.0	9990	195	4	79	1.7	2	7750	14.3	14	115	40120	5120	1	2490	376	48	1210	109	420	30	97	18	1	56	82.4	1496	1	1	3	26	1630	
10809	.9	5780	138	1	62	.9	1	9130	7.4	9	84	26150	3100	1	2140	418	40	920	89	330	22	69	16	1	36	40.4	831	1	1	3	37	1520	
10810	.9	5640	125	1	78	1.3	1	5790	15.4	11	101	34240	3100	1	1890	252	49	1140	119	500	29	90	16	1	36	43.3	1457	1	1	2	21	2350	
10811	1.1	9490	135	5	69	1.5	2	6420	11.2	13	121	41720	4890	1	2250	247	56	1190	128	660	34	109	16	1	89	61.5	1296	1	1	3	21	1720	
10812	.8	8850	68	3	73	1.4	1	7540	3.4	6	51	23060	4600	1	2330	203	35	2390	78	690	30	54	18	3	37	25.4	565	1	1	2	33	710	
10813	.7	7490	114	2	87	.9	1	18630	9.3	8	79	29620	3890	1	2480	520	53	2380	105	820	22	85	49	1	35	49.4	927	1	1	3	39	1420	
10814	.6	7400	174	2	47	1.2	1	5820	14.0	11	85	32390	3850	1	1420	174	57	2340	113	1080	20	103	14	1	39	55.3	1275	1	1	3	29	1375	
10815	.3	7770	157	2	50	1.2	1	5710	9.9	9	78	30230	4090	1	1650	190	55	3740	103	900	38	98	15	1	35	55.0	978	1	1	2	39	1600	
10816	.2	7920	252	2	48	1.4	1	5560	13.0	11	87	38130	4300	1	1350	169	52	2140	86	1110	17	105	15	1	43	54.0	1264	1	1	2	27	1630	
10817	.2	5220	174	1	35	1.0	1	3170	3.1	13	79	40360	2960	1	600	138	35	5400	77	730	52	99	7	1	40	30.5	576	1	1	1	29	1245	
10818	12.8	6350	202	2	49	1.2	1	4050	8.1	10	77	32090	3340	1	860	122	48	4520	101	920	51	102	11	1	38	44.8	873	1	1	2	40	765	
10819	7.9	5620	118	1	61	1.3	1	2520	9.0	6	54	25070	3250	1	720	98	42	3070	68	510	31	70	7	1	33	28.1	795	1	1	2	39	645	
10820	7.1	7330	240	2	58	1.8	1	3880	3.3	10	71	34240	4030	1	1060	178	69	3060	114	700	50	110	9	2	53	23.4	563	1	1	3	29	875	
10821	3.9	6700	262	1	65	1.9	1	2860	.1	4	25	23040	3710	1	1250	99	79	4240	71	80	42	66	8	6	32	7.2	197	1	1	4	73	910	
10822	2.5	10550	222	7	104	2.3	2	2640	.1	3	20	18880	5470	2	1420	78	82	2490	20	90	33	33	9	3	43	6.3	194	2	2	2	36	46	780
10823	.6	7080	557	5	155	2.4	2	1580	.1	3	13	26290	3870	1	940	46	51	1280	6	80	33	33	6	4	20	1.4	220	1	2	2	29	42	835
10824	.1	7050	467	6	62	2.1	1	2340	.1	3	9	27610	3860	1	1140	56	39	1160	1	60	29	29	8	1	25	1.0	159	1	2	2	19	25	645
10825	.2	6310	242	5	73	1.6	1	4380	.1	2	10	20330	3410	1	1850	87	44	1240	6	40	23	29	14	1	21	1.6	173	1	1	2	41	4	700
10826	.2	5760	174	3	51	1.8	1	2130	.1	2	9	18580	3130	1	950	41	32	1060	21	30	24	36	7	1	21	1.3	245	1	1	1	23	1	1000
10827	.3	5840	175	3	53	2.0	2	2750	.1	2	10	16410	3160	1	1120	52	14	70	8	40	27	44	10	1	23	1.3	305	2	1	2	34	3	1830
10828	.5	5890	94	3	55	1.8	1	2360	.1	1	7	11280	3210	2	1090	37	10	70	7	30	23	24	10	1	21	.7	249	1	1	2	39	2	525
10829	.3	6110	119	3	56	1.3	1	2980	.1	2	5	13270	3260	1	1410	40	15	70	7	20	24	29	10	1	22	.7	156	1	1	3	75	2	725
10830	.4	6360	82	2	62	1.4	2	2680	.1	1	5	11530	3410	1	1880	35	9	80	3	20	20	17	11	1	23	.8	167	3	2	3	66	1	320
10831	.3	5710	94	3	69	1.3	2	1840	.1	2	6	14680	2940	1	1920	29	16	130	2	10	18	19	8	1	26	1.1	138	2	2	4	85	2	320
10832	.1	5340	187	3	42	1.8	1	3850	.1	3	6	29920	2780	1	2480	41	20	140	1	10	18	22	9	1	28	.8	126	1	1	3	63	1	535
10833	.3	5000	76	2	36	1.6	2	3390	.1	2	6	24080	2280	2	3070	32	16	190	1	10	21	18	8	1	25	1.1	91	2	2	4	96	1	355
10834	.4	9690	31	2	54	2.0	2	6300	.1	1	5	11020	3410	8	6800	65	4	340	1	40	20	6	16	1	32	1.5	105	4	2	6	147	2	195
10835	.9	18300	31	4	53	4.1	3	5330	.1	2	7	10550	5290	22	15030	48	4	110	1	40	29	3	16	3	27	2.0	191	7	1	4	61	2	240
10836	.8	23160	15	4	62	3.7	3	2320	.1	2	5	10750	5530	29	21280	45	2	80	1	30	21	2	8	2	30	2.5	120	7	6	3	55	1	165
10837	1.4	23000	18	5	69	3.7	2	5330	.1	2	23	9500	6150	25	20150	59	4	100	1	40	31	5	15	1	37	2.7	236	7	3	4	81	1	265
10838	1.2	25650	7	6	80	3.8	2	11770	.1	2	6	10910	6570	28	26500	120	1	110	1	30	21	1	30	1	36	3.4	137	7	3	4	90	1	270
10839	1.0	25170	11	7	87	3.7	3	9330	.1	2	7	9990	6930	26	23540	88	4	110	1	40	20	1	25	1	43	3.1	102	6	2	3	76	3	280
10840	1.0	27880	9	7	85	4.3	2	11070	.1	2	6	11750	6120	35	29540	108	1	110	1	30	13	1	24	1	41	3.5	161	6	4	3	67	2	185
10841	1.0	26910	9	8	75	4.1	2	9770	.1	2	6	11030	7020	28	26510	98	3	130	1	30	20	1	22	2	49	3.4	118	6	3	3	64	2	180
10842	1.0	21070	15	7	71	3.6																											



**MIN-EN**  
**ENVIRONMENTAL**  
**LABORATORIES**  
 (DIVISION OF ASSAYERS CORP.)

91-61

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
 CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

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 3178 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
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Assay Certificate

1S-0165-RA3

Company: COPELAND REBAGLIATI & ASSOC.  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-22-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., BC  
 2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

We hereby certify the following Assay of 11 ROCKS samples submitted JUL-18-91 by RICHARD HASLINGER.

Sample Number	AU g/tonne	AU oz/ton
10E02	.02	.001
10E03	.01	.001
10E04	.01	.001
10E05	.01	.001
10E06	.01	.001
10E07	.02	.001
10E08	.01	.001
10E09	.01	.001
10E10	.01	.001
10E11	.02	.001
10E12	.02	.001
10E13	.01	.001
10E14	.01	.001
10E15	.01	.001
10E16	.02	.001
10E17	.01	.001
10E18	.23	.007
10E19	.18	.005
10E20	.19	.006
10E21	.07	.002

Certified by   
 MIN-EN LABORATORIES

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-62  
 SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 1048/9 CLAIM # : SIB 10, 33  
 LOCAL GRID : 9206.10 N / 9630.80 E GLOBAL GRID : 13591.28 N / 17838.07 E  
 LENGTH : 73.10 m INCLINATION : -45.0 degrees ELEVATION : 993.74 metres  
 OVERBURDEN : 1.25 m CASING : 3.05 metres AZIMUTH : 120.0 degrees  
 LOGGED BY : Paul Lamnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/17 DATE DRILLED : 1991/07/29 CORE LOCATION: 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 10852-10887

SUMMARY LOG

91-62

From(m)	To(m)	Field Name (Legend)
0.00	1.25	CASING
1.25	9.00	BLACK CHERT - CHERT BRECCIA (3.3) +/- GREEN-BLACK RHYOLITE FLOW (3.2)
9.00	19.10	RHYODACITIC FRAGMENTAL (3.0) +/- GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)
	11.00 - 11.5	GREEN-BLACK RHYOLITIC FRAGMENTAL -ASH AND CHERT BRECCIA (3.4A)
19.10	27.30	RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
27.30	33.40	DIORITE DYKE (6.1)
33.40	62.00	RHYODACITIC FRAGMENTAL (3.0) +/- GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)
	56.0	RHYODACITIC FRAGMENTAL -ASH (3.9A) -Thin
62.00	64.50	RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
64.50	71.00	GREEN-BLACK RHYOLITIC FLOW -BRECCIATED (3.3 Bx)
71.00	73.10	RHYODACITIC FRAGMENTAL (3.0) +/- TUFFACEOUS RHYOLITE (3.9)

73.10 END OF HOLE.

ANALYTICAL HIGHLIGHTS

91-62

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
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No significant results.



From(m)	To(m)	Description
0.00	1.25	CASING
1.25	9.00	BLACK CHERT - CHERT BRECCIA (3.3) +/- GREEN-BLACK RHYOLITE FLOW (3.2)

## Lithology &lt;1.25&gt;-&lt;14.8&gt;

- Dark grey, with lighter patches; 40% black angular fragments of volcanic or clastic composition, 60% greenish-grey hard matrix. Fragments size from 2 - 40mm, with a median of 1cm. Subtle change in rock composition "up" hole e.g. down core to a more felsic light coloured fragmental. This has also been logged as a Hybrid volcanic.
- 1.25 - 2.8: siliceous flow, some black tuff mixed into flow gradational contact.
- 8.9 - 9.25: greenish-grey sub-unit of rhyodacite.
- 10.5 - 11.5: well developed rhyolitic fragments, 10% quartz clasts, grey green.
- 11.5 - 14.8: mixed angular breccia fragments and rounded fragments.
- Comment: Lower contact may be sub-aerial due to unique texture.

## Structure

- Weak foliation or bedding common through this unit. Measurements as follows: 4.0m -60 degrees, 6.0m -55 degrees, 7.0m -52 degrees, 12.0m -60 degrees; "cherty" contact @ 80 degrees to c/a. Exhalative bed.

## Alteration

- Very weak to weak sericite alteration, weak carbonate especially in matrix and on some fragments, and weak silica overprint.

## Mineralization

- Trace to 0.25% pyrite; 1% pyrite from 10.5 to 11.5m (lapilli tuff)

9.00	19.10	RHYODACITIC FRAGMENTAL (3.0) +/- GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)
	11.00 - 11.5	GREEN-BLACK RHYOLITIC FRAGMENTAL -ASH AND CHERT BRECCIA (3.4A)

## Lithology &lt;14.8&gt;-&lt;19.1&gt;

- Varied and multicoloured in the greens and greys; ash size dominates, but sections of heterolithic(sub-aerial) tuff and crystal tuff present. There is no regular grain size or clast size. Probably the composition range is rhyodacitic.
- Heterolithic band from 16.4 - 17.0 has younging "down core" based on graded bedding and compaction relationships. Crystal/ash tuff from 17.7 - 18.6m. 15% 2mm calcareous fragments.
- 18.6 - 19.1: breccia dyke. Complex breccia texture, felsiphryic texture, 1 - 2% pyrite

From(m) To(m) -----Description-----

Structure

-Bedding and/or foliations @ 15.0m -60 degrees to c/a, 17.7m -63 degrees to c/a. Dyke disrupts stratigraphy by separating crystal/ash tuff from flow volcanics.

Alteration

-Weak to moderate sericitic alteration, weak carbonate alteration, crystals of the crystal tuff are acid reactive; weak silica overprint.

19.10 27.30 RHYOLITE FLOW (AUTOBRECCIATED) (3.8)

Lithology

-Greenish grey with some medium grey patches, siliceous, very hard, partially fractured and some brecciation near bottom of flow. Top of flow more massive, hard. Breccia dyke from 21.6 - 22.4m.; chaotic breccia texture; sharp contacts, calcareous matrix, <1% pyrite.

Structure

-Massive flow, no foliations, contacts are sharp, intrusive (1st contact); Lower (19.1m) @ 43 degrees; Upper contact (27.3m) @ 60 degrees. Rock adjacent to contacts carbonatized.

27.30 33.40 DIORITE DYKE (6.1)

Lithology

-Vari-coloured in the grey-green to yellow range, due to subtle alteration; fine to medium grained, grain size increases in center of dyke, sub porphyritic plagioclase and pyroxene (now epidote / green chlorite) in conjunction 1% opaque minerals, 1% leucoxene. Xenoliths and siliceous fragments increase toward lower contact. Tops of dyke appear to be down hole, due to presence of quartz and xenoliths near bottom.

Structure

-Weak, uniform foliation with angles of 45 - 50 degrees to c/a. Upper contact at 60 degrees, lower contact at 35 degrees to c/a.

Alteration

-Multi-alteration pattern: epidote-chlorite (of mafics), carbonatization of feldspars (moderate, acid fizzle), weak to very weak silica overprint.

From(m)	To(m)	Description
33.40	62.00	RHYODACITIC FRAGMENTAL (3.0) +/- GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)
	56.0	RHYODACITIC FRAGMENTAL -ASH (3.9A) -Thin

## Lithology &lt;33.4&gt;-&lt;37.8&gt;

-Greenish yellow-grey, irregular colours due to bedding variations. Clastic and volcanic fragments common, volcanic dominates; quartzo-feldspathic matrix; mixed volcanic origin; Bedding/sorting indicates tops down hole. Noted fragments of dyke rock in hole, and possibly rhyolitic fragmental debris. Dyke rock @ 37.0m.

## Structure

-Weak foliation and/or bedding 30 - 35 degrees to c/a; both upper and lower contacts vague due to broken core.

## Alteration

-Very weak to weak carbonate, weak sericite and silica alterations.

## Lithology &lt;37.8&gt;-&lt;45.0&gt;

-Similar to the 1.25 to 14.8 metre unit, but this interval is more ash rich. Fragmental debris is mixed with ash throughout. Uniform dark grey colour. Matrix appears to be quartzo-feldspathic. Probably a felsic volcanic.

## Structure

-Foliations at 40 - 42 degrees; dropping to lower values closer to fault zone.

## Alteration

-Weak alterations. Silicification.

## Lithology &lt;45.0&gt;-&lt;62.0&gt;

-Dark grey to black; isolated greenish grey sections, mottled texture, brecciation common, pure flow or beds not present; chaotic appearance. Full stratigraphy obscured by fault.

## Structure

-Fault from 45.8 (40 degrees to c/a) to 56.5 (28 degrees to c/a). Large brittle fracture zone defined by broken and gouged core. Foliations are not reliable to use. Fault contact is marked by the upper and lower gouge zone. Gouge @ 45.8m, 47.2m, 50.9m, 51.5m, 52.3m, 55.0m, and 56.5m. Lost core over this interval.

## Alteration

-Alteration marked by diss. appearance of carbonate alteration below fault zone.

-Silicification stronger below 56.5m.

-Calcareous veins common in fault zone, but very thin.

From(m)	To(m)	Description
62.00	64.50	RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
64.50	71.00	GREEN-BLACK RHYOLITIC FLOW -BRECCIATED (3.3 Bx)
71.00	73.10	RHYODACITIC FRAGMENTAL (3.0) +\- TUFFACEOUS RHYOLITE (3.9)

#### Lithology

-See previous description also. Grey, black, laminated rock with ash to semi-angular fragmental progression; some crystal or unsorted ash intervals; hard siliceous.

-62.0 (contact at 55 degrees) to 63.6: greenish rhyodacitic fragmental (pure volcanic rock).

-63.6 - 67.0: Ash and fragmental tuff, ash dominated -hybrid composition.

-67.0 - 67.6: Breccia interval (flow?).

-67.6 - 68.1: Ash tuff.

-68.1 - 70.7: Semi - angular fragmental. Hybrid?

-70.7 - 71.2: Ductile/Brittle shear zone; with possible dyke rock.

-71.2 - 73.1: Fragmental with ash and crystal matrix; crystal tuff layers also.

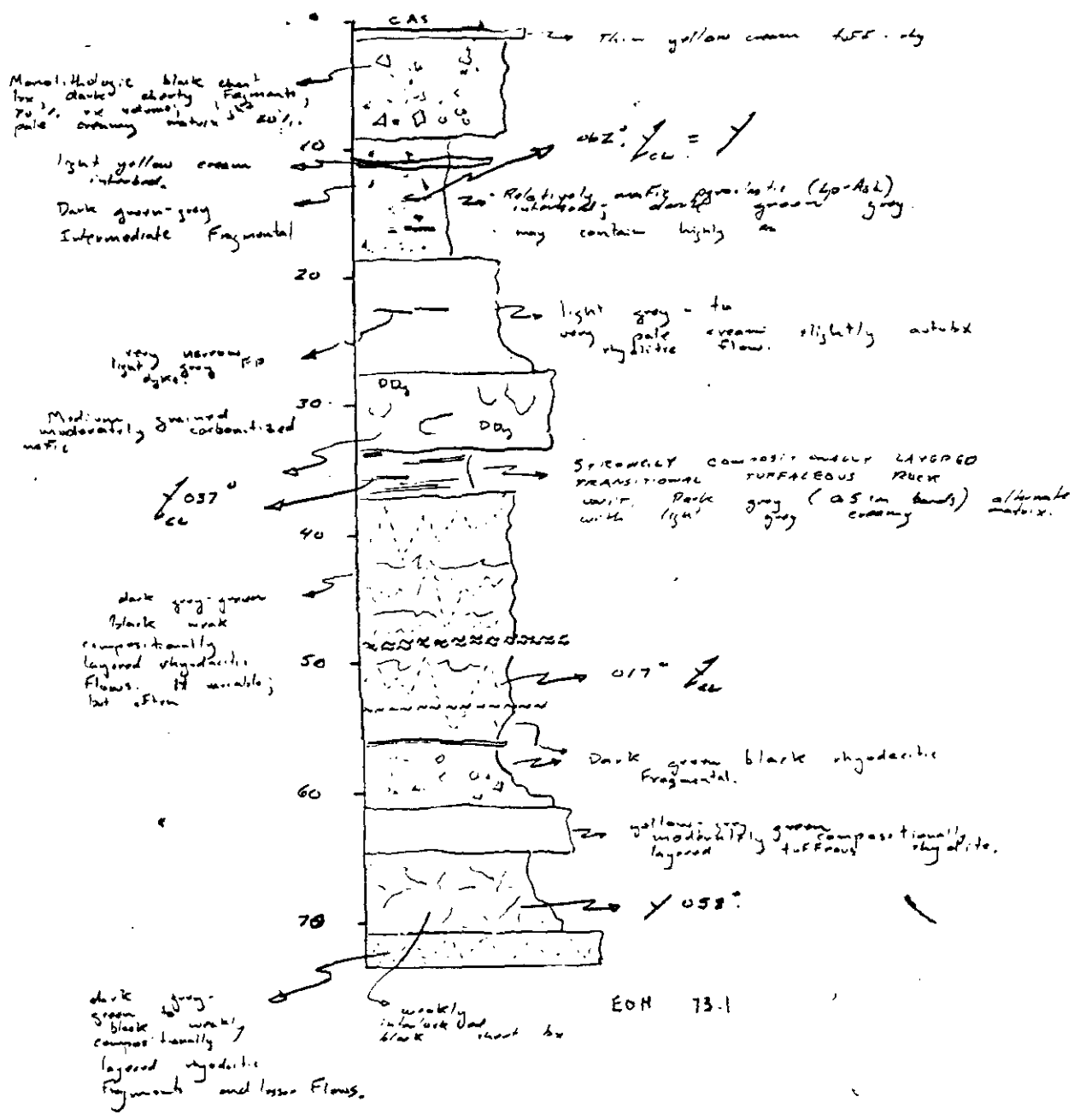
#### Structure

-Upper contact at 55 degrees; foliations regular: 62.3m -40 degrees, 64m -47 degrees, 65.5m -50 degrees, and 71.5m -45 degrees to c/a.

#### Alteration

-Silicification (moderate) of rock; only noted alteration.

73.10 END OF HOLE.



## AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

## - SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91-62	10852	1.25	3.00	1.75	-	-	2	-	-	0.7	38	2	159	145	6	17	86	7780	10150	
91-62	10853	3.00	5.00	2.00	-	-	3	-	-	0.7	53	2	155	130	6	17	112	11960	11210	
91-62	10854	5.00	7.00	2.00	-	-	1	-	-	0.8	62	1	157	75	7	16	82	13590	20120	
91-62	10855	7.00	9.00	2.00	-	-	2	-	-	0.6	24	1	151	115	6	17	117	12650	12040	
91-62	10856	9.00	11.00	2.00	-	-	1	-	-	0.3	43	1	81	120	7	16	98	12800	3670	
91-62	10857	11.00	13.00	2.00	-	-	1	-	-	0.5	83	2	68	105	7	18	46	13580	7050	
91-62	10858	13.00	15.00	2.00	-	-	2	-	-	0.8	27	1	64	105	6	11	63	9670	16320	
91-62	10859	15.00	17.00	2.00	-	-	1	-	-	0.8	15	1	138	120	6	18	167	25470	15550	
91-62	10860	17.00	19.00	2.00	-	-	2	-	-	0.8	27	1	166	100	7	20	117	16290	17230	
91-62	10861	19.00	21.00	2.00	-	-	1	-	-	0.7	16	1	52	55	6	18	42	5760	12300	
91-62	10862	21.00	23.00	2.00	-	-	2	-	-	0.7	19	2	70	65	11	13	44	8710	17450	
91-62	10863	23.00	25.00	2.00	-	-	1	-	-	0.8	17	1	75	50	5	17	55	6050	25960	
91-62	10864	25.00	27.30	2.30	-	-	1	-	-	0.6	11	1	24	70	6	18	52	6640	11490	
91-62	10865	27.30	29.00	1.70	-	-	1	-	-	0.5	57	7	56	105	40	7	88	28920	25520	
91-62	10866	29.00	31.00	2.00	-	-	2	-	-	0.7	39	5	52	95	41	6	108	22580	46130	
91-62	10867	31.00	33.40	2.40	-	-	2	-	-	0.5	56	9	48	165	36	9	89	28450	27310	
91-62	10868	33.40	35.00	1.60	-	-	3	-	-	0.7	23	6	51	230	13	22	104	19210	18790	
91-62	10869	35.00	37.00	2.00	-	-	1	-	-	1.0	23	3	58	270	7	24	108	14240	17110	
91-62	10870	37.00	39.00	2.00	-	-	1	-	-	0.9	19	2	57	255	7	22	106	8430	13780	
91-62	10871	39.00	41.00	2.00	-	-	1	-	-	0.7	11	1	62	190	5	20	105	7500	10410	
91-62	10872	41.00	43.00	2.00	-	-	2	-	-	0.8	14	1	66	140	5	20	89	6480	10860	
91-62	10873	43.00	45.00	2.00	-	-	1	-	-	0.8	13	1	64	120	5	23	92	10630	18980	
91-62	10874	45.00	47.00	2.00	-	-	1	-	-	0.7	30	2	55	245	6	19	93	12010	9540	
91-62	10875	47.00	49.00	2.00	-	-	2	-	-	0.7	68	4	55	305	5	20	100	9550	8500	
91-62	10876	49.00	51.00	2.00	-	-	1	-	-	0.8	129	6	96	400	7	24	106	19570	15430	
91-62	10877	51.00	53.00	2.00	-	-	2	-	-	1.0	97	5	74	375	6	19	88	8330	8730	
91-62	10878	53.00	55.00	2.00	-	-	2	-	-	0.8	75	4	54	305	5	16	62	8040	12280	
91-62	10879	55.00	57.00	2.00	-	-	1	-	-	0.8	128	6	79	480	7	27	137	9570	8610	
91-62	10880	57.00	59.00	2.00	-	-	2	-	-	0.8	69	5	88	335	6	21	145	7980	6780	
91-62	10881	59.00	61.00	2.00	-	-	3	-	-	0.8	61	4	64	275	6	24	127	7960	8430	
91-62	10882	61.00	63.00	2.00	-	-	1	-	-	0.9	56	8	78	220	7	31	160	13070	9520	
91-62	10883	63.00	65.00	2.00	-	-	1	-	-	0.7	25	3	77	95	4	23	119	10560	5000	
91-62	10884	65.00	67.00	2.00	-	-	2	-	-	0.8	24	1	95	120	5	26	121	9930	4950	
91-62	10885	67.00	69.00	2.00	-	-	1	-	-	0.7	20	3	101	125	5	22	107	9190	7010	
91-62	10886	69.00	71.00	2.00	-	-	4	-	-	0.9	22	3	86	115	5	23	120	8960	10940	
91-62	10887	71.00	73.10	2.10	-	-	1	-	-	0.9	20	1	71	115	5	25	100	9740	15070	

From(m)	To(m)	Description
0.00	6.10	CASING
6.10	8.00	RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
8.00	10.00	BLACK CHERT - CHERT BRECCIA (3.3)
		<p>Lithology &lt;6.1&gt;-&lt;11.6&gt;            -Medium grey grading into black, breccia type texture, hybrid volcanic is blackish but siliceous. Transition from breccia to hybrid indistinct due to a fracture zone or surface weathering of zone. Gradational lower contact.</p> <p>Structure            -Semi-massive to massive broken core throughout interval.</p> <p>Alteration            -Silicification: moderate to strong.</p> <p>Mineralization            -&lt; 0.5% pyrite from 6.1 - 10.0 metres; 10.0 - 10.4 -2% syngenetic pyrite; 10.4 - 11.6 -4% pyrite with &lt;5cm semi-massive zone from 10.5 - 10.54 metres.</p>
10.00	13.70	SULPHIDIC MUDSTONE AND CHERT (3.5), TURBIDITIC MUDSTONE (3.6)
		<p>Lithology &lt;11.6&gt;-&lt;13.7&gt;            -Black, very hard, pyrite dominated deformed laminations, measurements impossible; core is broken throughout this zone; very fine silica veining through mudstone, related to silicification of unit.</p> <p>Structure            -Massive or deformed, no foliation or bedding (fl, S0) noted.            -Impacted, sharp lower contact: irregular.</p> <p>Alteration            -Silicified, moderate to strong.</p> <p>Mineralization            -2 - 3% syngenetic pyrite.</p>
13.70	21.10	BLACK CHERT - CHERT BRECCIA (3.3)
		<p>Lithology &lt;13.7&gt;-&lt;15.0&gt;            -Black matrix with 25 - 35% feldspar and quartz rich clasts and large phenocrysts? Jet black matrix is inverse of the unit below this one. Resembles a sub-intrusion of feldspar porphyry. Will be used in sample display. Contacts sharp, but no aureole effects.</p> <p>Structure            -Foliation and fragment orientation at 0 to 5 degrees to c/a; core fractures at 30 - 40 degrees to c/a; lower contact at 75 - 80 degrees to c/a</p> <p>Alteration            -Unit softer than upper; lower units: weak sericitized matrix.</p> <p>Mineralization            -&lt;0.25% pyrite.</p>

From(m)	To(m)	Description
		<p>Lithology &lt;15.0&gt;-&lt;18.0&gt; -Grey black, 30 - 40% black angular fragments in hard green-grey matrix, very hard, &lt;1% veining (quartz type).</p> <p>Structure -Massive (flow like)</p> <p>Alteration -Silicification.</p> <p>Mineralization -&lt;0.25% pyrite, lower 5 - 8cm contact is pyritic, framboidal (10 - 15%).</p>
		<p>Lithology &lt;18.0&gt;-&lt;21.1&gt; -Black, aphanitic, very hard, fractured in part; also vuggy sections noted. Two part flow pyrite concentrated between the black massive sections. Sharp lower contact at 80 degrees to c/a.</p> <p>Structure -Massive.</p> <p>Alteration -Silicified, moderate.</p> <p>Mineralization -&lt;1% pyrite in black massive sections, 2% pyrite in the interbedded breccia section.</p>
21.10	27.00	<p>RHYOLITE FLOW (AUTOBRECCIATED) -BRECCIATED (3.88x)</p> <p>Lithology -Grey to medium grey, hard, fragmental texture, but matrix is aphanitic. Clasts or breccia pieces are unoriented, and siliceous. Brecciation increases towards top? of flow. Younging up hole? -Fracturing from 21.1 - 23.0 has permitted some fluid flooding with deposition of pyrite.</p> <p>Structure -Semi-massive, very weak foliation in some small sections. Breccia or fragmental top may imply top upcore. Tops not certain. -Bedding @ 80 degrees to c/a from 21.1 - 23.0 metres.</p> <p>Alteration -Silicified, very weak sericite alteration of "matrix".</p> <p>Mineralization -3 - 5% braided pyrite from 21.1 - 23.0 metres; very fine grained pyrite, brownish, fracture filling, selected for sampling. Sample #10897.</p>



From(m)	To(m)	Description
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27.00	41.00	GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA -SERICITE (3.4a)
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## Lithology &lt;27.0&gt;-&lt;36.5&gt;

-Grey to very light green, hard, uniform, with shiny rhyolitic "pure flow" patches, and duller less viscous? sections. Flow marked by 3 - 8cm foliated sections, altered somewhat.

## Structure

-Vague upper, but sharp lower contact. Lower contact @ 65 degrees to c/a.  
-Semi-massive to massive, non-foliated.

## Alteration

-Weak to very weak sericite alteration, overprinted by silica alteration.

## Mineralization

-Unmineralized.

41.00	83.00	RHYODACITIC FLOW -SERICITE (3.1a) +/- RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
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## Lithology &lt;36.5&gt;-&lt;77.0&gt;

-Medium grey, heterolithic, with 0 - 75% fragments, but an average of 45% overall. Some sections are tuff rich, others fragment rich. Fragments include quartz, feldspar, dacitic, rhyolitic and possible clastic fragments in a greenish matrix. Clastic component increases below 45.4 metres. Isolated chert bands @ 54.7 - 55.1m, 66.6 - 66.8m.

## Structure

-Weak foliation, undiagnostic. Foliation variable. May be structural fabric as well. 41.0m -60 degrees, 43.0m -45 degrees, 57.0m -45 degrees, 62.0m -55 degrees, 64.0m -65 degrees, 70.0m -60 degrees, 75.0m -40 degrees to c/a.  
-Fault: 47.0 - 48.5m, Upper contact @ 55 degrees to c/a. Fractured, gouged core.  
-Shear zones: 46.4 - 57.0m: 0 - 10 degrees foliation  
48.5 - 57.0m: variable foliation and weaker foliated zones,  
48.5 - 49.5m: 0 - 10 degrees  
52.0 - 53.2m: 0 - 10 degrees  
55.0 - 57.0m: 0 - 10 degrees

## Alteration

-Very weak sericite alteration especially of the matrix, moderate silicification.

## Mineralized

-Unmineralized.

## Lithology &lt;77.0&gt;-&lt;83.0&gt;

-Light to medium grey, fine grained crystal and ash matrix, with 5 - 10% sericitic fragments that may be derived from the unit below this one. Fragments are in the lapilli size range. Fragments surrounded by the crystal rich matrix.

From(m)	To(m)	Description
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Isolated tuffaceous (sericitic) bands in the lower section, rock appears to fine upwards.

Structure

-Bedding or compositional layering @ 40 - 50 degrees to c/a consistently through interval. Upper contact @ 50 degrees to c/a, lower contact @ 65 degrees. Sharp lower contact, upper one gradational due to change in volcanic content.

Alteration

-Weak to very weak sericite alteration, silica overprint.

Mineralization

-Unmineralized.

83.00	100.00	RHYOLITE FLOW (AUTOBRECCIATED) -SERICITE (3.8a)
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Lithology <83.0>-<94.0>

-Light grey-green, mottled texture, vague breccia outlines present, generally an aphanitic matrix with subrounded rhyodacitic breccia pieces. Rare more siliceous flow or cherty material. Slightly more sericite content noted in this interval. Silica overprint.

Structure

-Massive to semi massive, some weakly foliated zones. Fault zone from 87.4 - 89.5m marked by broken core, and some bull quartz veining, probably a brittle shear zone. Foliation changes, not large, before the fault zones. Lower fault contact @ 45 degrees to c/a.

Alteration

-Weak sericite alteration, silica overprint.

Mineralization

-Unmineralized, bull quartz veins in fault zone are barren.

100.00	112.20	RHYODACITIC FRAGMENTAL (3.0)
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Lithology <94.0>-<112.2>

-Multicoloured due to clasts (breccia), matrix, and sericitic rich fragment components. Breccia is (?) made up of both siliceous and more dacitic clasts. Alteration imprint has obscured the textural relationship, unlike more siliceous flows. Sericitic clasts increase toward the bottom unit. Blackish clasts (rhyolitic fragments or clasts?) are assimilated and fragmented (porous looking) throughout the unit. (This unit is probably part of the middle of the Dilworth sequence. Rhyolitic autobreccias and phreatic breccias).

Structure

-Massive unit. Upper tuffaceous contact @ 45 degrees to c/a.  
 -Major fault @ 98.0 - 102.8m. Upper contact at 30 degrees to c/a, core is broken throughout interval. Quartz-carbonate veining from 100.9 - 101.65 has isolated subhedral pyrite cubes (101.0m). Slip and fracture zones persist from

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From(m)	To(m)	-----Description-----
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102.8 - 109.9 metres. This is a brittle shear younger fault.  
 Note: Fault slips below major fault @ 106.0m, 106.4m, 107.5m, 108.0m. Broken  
 core from 107.5 - 108.3 metres.

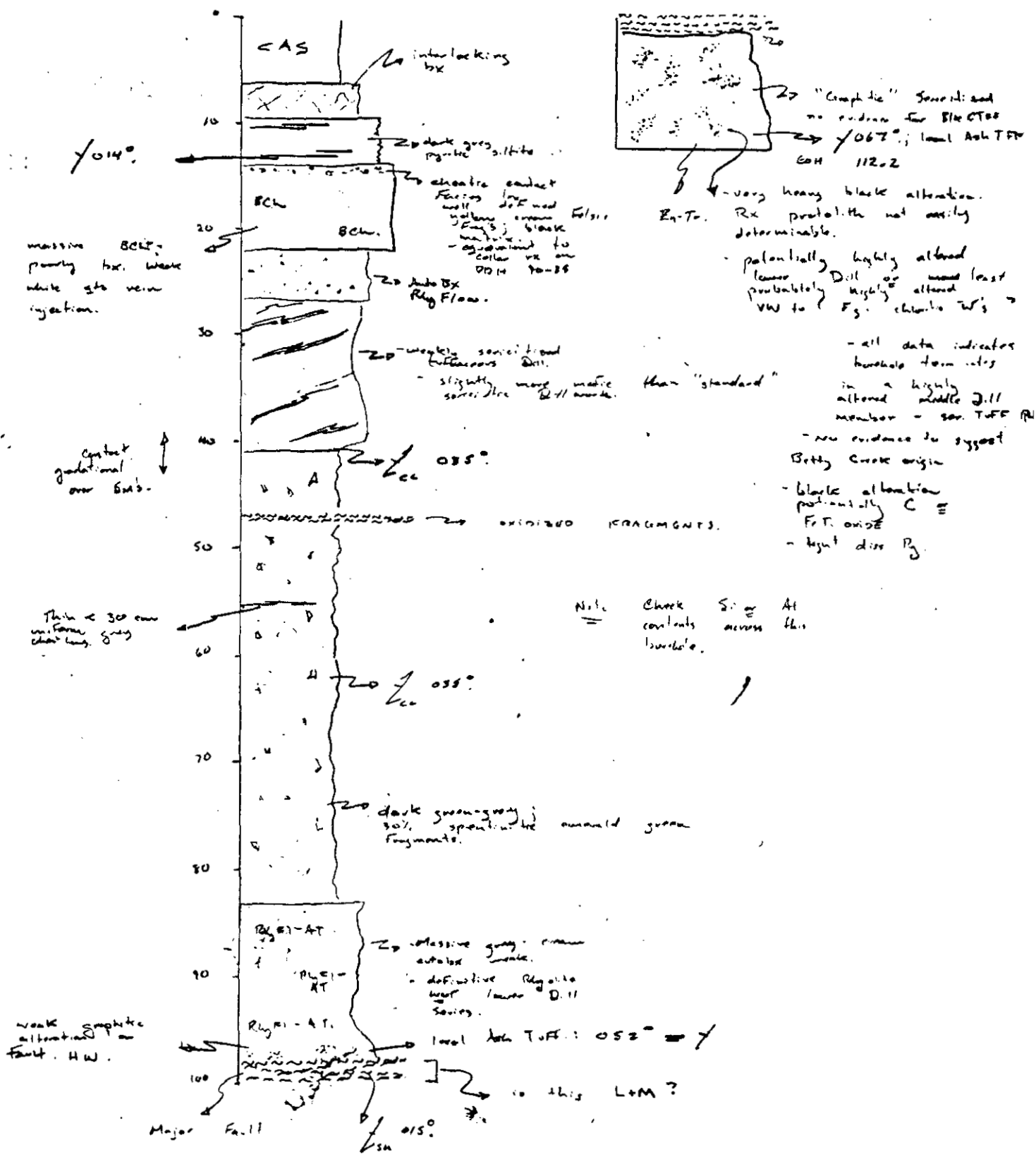
Alteration

-Weak to moderate sericite alteration in more rhyodacitic rock, flow contacts  
 sericitized. Matrix is weakly sericitized, giving pale green colour. Rock is  
 silicified -moderate alteration. Resists steel tip blade.

Mineralization

-Unmineralized except for pyrite noted in the fault zone.

112.20      END OF HOLE.



massive BCL; poorly bx. weak white qtz vein injection.

contact gradational over BCL.

Thin < 30 cm uniform grey

weak alteration graphite fault. HW.

interlocking bx  
 dark green pyrite  
 chrome contact facies  
 Facies defined well  
 yellow orange Fe/Si  
 Fe/Si; black matrix  
 - equivalent to collar vs on DDH 70-28  
 Auto Bx Rly Flow.  
 - weakly sericitized  
 chloritic Dill.  
 - slightly more mafic than "standard"  
 slightly more mafic sericitized Dill.  
 "Graphite" Sample: and no evidence for BLECTOP  
 067°; local Ash Tuff  
 CoH 11202  
 - very heavy black alteration.  
 En-T. Rk protolith not easily determinable.  
 - potentially highly altered lower Dill or more least probably highly altered VW to Fig. chlorite T's  
 - all data indicates breccia formation in a highly altered middle Dill member - see Tuff R  
 - no evidence to suggest Betty Creek origin  
 - black alteration potentially C = Fe. oxide  
 - light disc P<sub>g</sub>.

Note: Check Si or Al contents across breccia.

local Ash Tuff: 052°

is this L+M?

NB note lower Dill Dike to hydrothermal fragments appear to have moved up section

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-63	10888	6.10	8.10	2.00	-	-	82	-	-	27.9	99	14	477	615	14	39	67	5360	230
91-63	10889	8.10	10.00	1.90	-	-	82	-	-	12.3	252	18	117	655	17	20	101	15060	60
91-63	10890	10.00	12.00	2.00	0.22	0.006	0	-	-	11.2	633	48	113	880	31	36	210	39720	1080
91-63	10891	12.00	14.00	2.00	0.18	0.005	0	-	-	15.6	402	64	85	845	32	46	397	18920	1080
91-63	10892	14.00	15.00	1.00	-	-	42	-	-	10.9	446	35	161	1100	13	40	339	18880	1050
91-63	10893	15.00	17.00	2.00	-	-	91	-	-	18.6	391	25	119	700	8	28	156	14600	3830
91-63	10894	17.00	18.00	1.00	-	-	268	-	-	30.6	1544	63	89	2200	12	48	221	34210	1500
91-63	10895	18.00	19.50	1.50	-	-	60	-	-	15.8	144	24	43	975	9	31	175	15380	280
91-63	10896	19.50	21.20	1.70	-	-	39	-	-	17.6	213	22	68	595	9	24	127	26270	5250
91-63	10897	21.20	23.00	1.80	-	-	22	-	-	13.6	472	28	126	1055	8	33	129	22940	12340
91-63	10898	23.00	25.00	2.00	-	-	1	-	-	2.9	230	15	129	395	6	25	143	13500	6660
91-63	10899	25.00	27.00	2.00	-	-	2	-	-	1.2	86	5	188	250	6	29	135	12430	6460
91-63	10900	27.00	29.00	2.00	-	-	1	-	-	0.6	42	2	99	155	5	22	125	10020	3130
91-63	10901	29.00	31.00	2.00	-	-	1	-	-	0.6	36	2	57	145	5	23	101	9030	760
91-63	10902	31.00	33.00	2.00	-	-	1	-	-	0.7	38	2	63	135	5	23	111	9280	140
91-63	10903	33.00	35.00	2.00	-	-	2	-	-	0.7	24	1	120	155	6	25	120	9560	120
91-63	10904	35.00	37.00	2.00	-	-	1	-	-	0.7	28	1	97	160	5	25	123	8760	210
91-63	10905	37.00	39.00	2.00	-	-	2	-	-	0.9	19	1	466	175	5	22	126	9760	1180
91-63	10906	39.00	41.00	2.00	-	-	3	-	-	1.0	28	1	142	170	6	25	123	8580	3990
91-63	10907	41.00	43.00	2.00	-	-	1	-	-	0.8	18	1	142	160	5	22	118	10410	1250
91-63	10908	43.00	45.00	2.00	-	-	1	-	-	0.8	24	1	145	170	6	19	118	9810	620
91-63	10909	45.00	47.00	2.00	-	-	1	-	-	0.8	18	1	119	160	5	19	90	10810	5340
91-63	10910	47.00	49.00	2.00	-	-	2	-	-	1.0	21	1	109	130	6	28	120	9880	13330
91-63	10911	49.00	51.00	2.00	-	-	1	-	-	0.9	8	1	96	120	5	27	118	9390	2700
91-63	10912	51.00	53.00	2.00	-	-	1	-	-	0.8	5	1	64	125	6	23	114	9690	3320
91-63	10913	53.00	55.00	2.00	-	-	1	-	-	0.8	6	1	56	95	5	17	110	11650	1370
91-63	10914	55.00	57.00	2.00	-	-	4	-	-	0.7	15	1	96	85	6	25	107	8500	1420
91-63	10915	57.00	59.00	2.00	-	-	6	-	-	0.7	8	1	162	95	5	21	135	9110	730
91-63	10916	59.00	61.00	2.00	-	-	2	-	-	0.8	11	1	142	105	5	20	101	9770	7260
91-63	10917	61.00	63.00	2.00	-	-	13	-	-	1.1	35	1	186	105	5	19	106	10220	6160
91-63	10918	63.00	65.00	2.00	-	-	3	-	-	0.8	2	1	211	90	6	22	116	11640	4820
91-63	10919	65.00	67.00	2.00	-	-	5	-	-	0.6	7	1	164	80	5	29	126	10360	3580
91-63	10920	67.00	69.00	2.00	-	-	2	-	-	0.8	29	1	63	105	6	23	80	11380	5110
91-63	10921	69.00	71.00	2.00	-	-	1	-	-	0.8	10	1	117	75	6	19	112	10830	1380
91-63	10922	71.00	73.00	2.00	-	-	3	-	-	0.7	63	1	97	95	6	24	104	11000	1510
91-63	10923	73.00	75.00	2.00	-	-	2	-	-	0.6	74	1	120	130	6	27	125	9990	1010
91-63	10924	75.00	77.00	2.00	-	-	3	-	-	0.7	49	2	78	95	6	21	85	11780	1310
91-63	10925	77.00	79.00	2.00	-	-	1	-	-	0.7	51	1	70	115	6	25	84	12610	1360
91-63	10926	79.00	81.00	2.00	-	-	2	-	-	0.9	62	2	75	95	6	26	102	9050	630
91-63	10927	81.00	83.00	2.00	-	-	2	-	-	1.2	51	2	78	250	6	24	128	7660	4510
91-63	10928	83.00	85.00	2.00	-	-	3	-	-	1.5	34	3	60	225	6	32	144	6540	1420
91-63	10929	85.00	87.00	2.00	-	-	1	-	-	1.9	36	4	79	430	7	60	201	7100	5380
91-63	10930	87.00	89.00	2.00	-	-	1	-	-	1.2	49	2	45	700	5	50	163	6720	5920
91-63	10931	89.00	91.00	2.00	-	-	7	-	-	1.1	63	3	104	225	7	22	119	6590	3020
91-63	10932	91.00	93.00	2.00	-	-	21	-	-	1.4	86	3	82	120	5	25	100	7360	5740
91-63	10933	93.00	95.00	2.00	-	-	40	-	-	1.1	71	3	135	125	5	20	108	6380	3080
91-63	10934	95.00	97.00	2.00	-	-	102	-	-	1.2	39	2	71	95	5	20	100	7630	5500
91-63	10935	97.00	99.00	2.00	-	-	43	-	-	1.6	105	4	72	525	8	29	145	9610	5250
91-63	10936	99.00	101.00	2.00	-	-	22	-	-	1.5	161	5	69	365	5	22	88	6920	2440
91-63	10937	101.00	103.00	2.00	-	-	18	-	-	1.4	23	2	3	305	1	1	1	700	10
91-63	10938	103.00	105.00	2.00	-	-	16	-	-	1.5	59	3	74	290	5	20	111	6510	970

AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

- SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91-63	10939	105.00	107.00	2.00	-	-	3	-	-	1.1	85	2	112	310	6	19	98	5090	1050
91-63	10940	107.00	109.00	2.00	-	-	35	-	-	1.2	80	3	91	245	4	26	83	4540	1150
91-63	10941	109.00	111.00	2.00	-	-	108	-	-	1.1	43	2	87	200	6	21	93	6770	1140
91-63	10942	111.00	112.20	1.20	-	-	39	-	-	1.1	32	2	47	230	6	26	124	5480	3400

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M.REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ31+3  
 DATE: 91/10/1  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
10852	.7	3950	38	6	159	1.3	1	10150	.1	1	6	7780	2900	1	730	74	11	80	4	20	17	2	20	1	36	1.7	86	1	1	5	145	2	145
10853	.7	4020	53	3	155	1.7	1	11210	.1	2	6	11960	3290	1	480	88	16	70	1	20	17	2	18	1	48	1.3	112	1	3	6	150	3	130
10854	.8	5510	62	1	157	2.0	1	20120	.1	2	7	13590	4060	1	580	210	9	80	1	40	16	1	38	2	60	1.8	82	1	2	4	116	1	75
10855	.6	5080	24	1	151	2.0	1	12040	.1	2	6	12650	3970	1	350	113	38	70	1	30	17	1	20	2	51	1.4	117	1	1	6	159	2	115
10856	.3	3530	43	1	81	1.2	1	3670	.1	2	7	12800	2370	1	210	51	7	360	1	30	16	1	5	1	42	1.1	98	1	2	5	145	1	120
10857	.5	3130	83	1	68	1.2	1	7050	.1	2	7	13580	2090	1	230	70	10	310	1	40	18	2	9	1	42	1.4	46	1	2	8	201	1	105
10858	.8	5190	27	1	64	1.3	1	16320	.1	2	6	9670	2430	1	1700	154	14	450	3	40	11	1	20	1	50	2.8	63	3	2	7	172	2	105
10859	.8	16190	15	2	138	3.7	2	15550	.1	3	6	25470	6270	15	10600	223	6	60	1	30	18	1	22	2	51	2.9	167	4	2	3	81	1	120
10860	.8	15090	27	1	166	3.4	9	17230	.1	5	7	16290	6570	12	7130	212	3	110	7	90	20	1	20	3	53	10.7	117	4	2	3	64	2	100
10861	.7	4880	16	1	52	.9	3	12300	.1	2	6	5760	2260	1	1060	93	8	290	3	30	18	1	12	1	41	2.8	42	2	2	8	205	1	55
10862	.7	7120	19	1	70	1.1	1	17450	.1	6	11	8710	2950	1	1630	188	5	330	11	170	13	2	16	1	47	25.0	44	3	3	6	144	2	65
10863	.8	8260	17	1	75	.8	1	25960	.1	1	5	6050	3390	1	1890	237	8	750	3	30	17	1	22	1	51	4.1	55	3	2	8	198	1	50
10864	.6	3140	11	1	24	.6	1	11490	.1	1	6	6640	860	1	1670	132	3	330	3	40	18	1	15	1	22	4.1	52	2	2	5	130	1	70
10865	.5	8640	57	1	56	1.4	1	25520	.1	31	40	28920	2220	6	7250	455	2	240	46	1080	7	7	33	1	27	81.3	88	2	1	6	121	1	105
10866	.7	8400	39	1	52	.9	2	46130	.1	34	41	22580	2180	5	5760	603	1	300	50	1120	6	5	42	1	33	81.3	108	3	1	5	94	2	95
10867	.5	4020	56	1	48	1.3	1	27310	.1	32	36	28450	1850	1	3940	716	2	220	51	1010	9	9	37	1	19	45.0	89	1	2	4	80	2	165
10868	.7	3180	23	1	51	1.8	1	18790	.1	11	13	19210	1940	1	4090	346	2	130	16	200	22	6	41	1	16	8.6	104	1	1	2	54	3	230
10869	1.0	4740	23	1	58	2.5	1	17110	.1	3	7	14240	2630	1	2700	288	4	90	3	40	24	3	31	2	26	3.1	108	2	2	4	108	1	270
10870	.9	4680	19	1	57	2.0	1	13780	.1	3	7	8430	2660	1	2660	199	3	180	4	40	22	2	26	2	32	3.0	106	3	2	4	86	1	255
10871	.7	5310	11	1	62	2.2	1	10410	.1	1	5	7500	3100	1	2240	128	5	150	1	10	20	1	17	2	34	1.3	105	2	3	5	137	1	190
10872	.8	5650	14	1	66	2.1	1	10860	.1	1	5	6480	3090	1	1920	121	3	180	2	10	20	1	17	2	37	1.4	89	3	1	4	100	2	140
10873	.8	4940	13	1	64	2.8	1	18980	.1	2	5	10630	2870	1	2810	340	5	100	1	10	23	1	32	2	30	1.7	92	2	2	4	110	1	120
10874	.7	5300	30	1	55	2.2	1	9540	.1	2	6	12010	2730	1	2930	128	4	170	1	20	19	2	21	2	26	1.3	93	2	2	3	82	1	245
10875	.7	3740	68	1	55	.9	1	8500	.1	1	5	9550	1940	1	1020	75	10	340	1	30	20	4	14	2	29	1.3	100	2	1	6	160	2	305
10876	.8	5190	129	1	96	.8	1	15430	.1	2	7	19570	2820	1	550	88	10	330	1	30	24	6	35	2	39	1.6	106	2	2	5	121	1	400
10877	1.0	4880	97	1	74	.7	1	8730	.1	1	6	8330	2560	1	500	46	13	540	2	50	19	5	20	3	38	1.4	88	2	3	10	264	2	375
10878	.8	3900	75	1	54	.7	1	12280	.1	1	5	8040	2030	1	690	83	7	410	2	10	16	4	24	1	26	1.6	62	1	2	6	173	2	305
10879	.8	6310	128	1	79	1.2	1	8610	.1	1	7	9570	3540	1	1210	48	9	300	1	70	27	6	14	5	44	1.3	137	3	2	6	143	1	480
10880	.8	7740	69	1	88	1.0	1	6780	.1	1	6	7980	3980	1	1890	46	6	350	1	60	21	5	10	3	54	1.2	145	3	2	4	105	2	335
10881	.8	5890	61	1	64	1.3	1	8430	.1	1	6	7960	3140	1	2590	73	7	240	1	60	24	4	16	4	35	1.2	127	3	2	5	113	3	275
10882	.9	7280	56	3	78	2.6	1	9520	.1	2	7	13070	3950	2	3870	120	9	130	1	30	31	8	17	3	28	1.2	160	3	2	4	84	1	220
10883	.7	8980	25	2	77	2.3	2	5000	.1	1	4	10560	3570	7	8030	85	4	120	1	10	23	3	10	2	33	1.7	119	4	3	3	84	1	95
10884	.8	11260	24	2	95	2.5	2	4950	.1	1	5	9930	4430	7	8400	92	6	170	1	10	26	1	10	3	48	1.8	121	6	3	6	140	2	120
10885	.7	7820	20	1	101	2.5	1	7010	.1	1	5	9190	3610	2	6480	160	4	260	1	10	22	3	15	3	35	1.6	107	4	2	5	112	1	125
10886	.9	10130	22	1	86	3.3	1	10940	.1	1	5	8960	4690	2	7470	331	6	150	1	10	23	3	24	3	36	1.9	120	4	2	5	130	4	115
10887	.9	8360	20	1	71	2.8	1	15070	.1	1	5	9740	3580	3	6350	340	2	240	1	10	25	1	30	3	37	2.0	100	4	6	4	93	1	115
10888	27.9	2760	99	2	477	.3	1	230	.1	1	14	5360	1430	1	180	14	14	30	2	50	39	14	4	1	6	1.4	67	1	2	6	178	82	615
10889	12.3	3770	252	4	117	.5	1	60	.1	2	17	15060	1840	1	210	18	21	50	3	160	20	18	4	1	8	5.1	101	1	2	5	147	82	655
10890	11.2	5640	633	38	113	1.2	2	1080	.1	6	31	39720	3140	25	760	53	32	1640	17	130	36	48	7	5	28	6.5	210	1	1	5	132	880	
10891	15.6	4680	402	19	85	1.2	2	1080	2.2	4	32	18920	2700	12	610	45	28	1940	32	140	46	64	7	3	28	10.1	397	1	2	7	166	845	
10892	10.9	11720	446	3	161	3.1	1	1050	.1	3	13	18880	6240	1	1500	9	26	60	22	50	40	35	5	5	30	4.6	339	3	3	3	71	42	1100
10893	18.6	3600	391	1	119	.6	1	3830	.1	2	8	14600	2300	1	390	33	20	140	1	20	28	25	10	1	19	1.2	156	1	2	5	133	91	700
10894	30.6	2950	1544	1	89	.8	1	1500	.1	3	12	34210	1820	1	350	16	37	150	1	50	48	63	6	1	18	1.0	221	1	2	5	148	268	2200
10895	15.8	1700	144	1	43	.3	1	280	.1	2	9	15380	390	1	140	25	11	1010	1	10	31	24	3	2	24	.5	175	1	2	2	54	60	975
10896	17.6	2740	213	1	68	.7	1	5250	.1	3	9	26270	1320	1	1730	76	12	700	1	40	24	22	3	3	35	1.7	127	1	3	6	150	39	595
10897	13.6	4050	472	1	126	1.2	1	12340	.1	2	8	22940	2170	1	2990	131	9	360	1	50	33	28	51	3	25	1.4	129	2	3	2	48	22	1055
10898	2.9	5880	230	1	129	1.8	1	6660	.1	2	6	13500	3000	1	4440	77	9	130	1	70	25	15	25	2	26	1.1	143	2	2	4	97	1	395
10899	1.2	12490	8																														

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ33+  
 DATE: 91/10/  
 \* ROCK \* (ACT: F3)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SH PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
10908	.8	21780	24	1	145	3.6	2	620	.1	2	6	9810	4700	21	21870	23	5	130	1	10	19	1	4	2	34	2.2	118	4	4	5	124	1	170
10909	.8	20410	18	1	119	3.1	2	5340	.1	2	5	10810	3750	25	26270	34	3	100	1	10	19	1	31	1	29	3.1	90	3	3	3	80	1	160
10910	1.0	6290	21	1	109	1.9	1	13330	.1	1	6	9880	2020	10	13270	65	6	100	1	40	28	1	77	2	7	2.4	120	3	3	5	116	2	130
10911	.9	17660	8	1	96	2.8	2	2700	.1	2	5	9390	2740	22	23550	40	2	80	1	20	27	1	14	2	15	2.7	118	4	5	3	63	1	120
10912	.8	18410	5	1	64	2.7	2	3320	.1	2	6	9690	1970	28	25760	34	5	90	1	10	23	1	14	1	13	2.7	114	3	4	5	135	1	125
10913	.8	19860	6	1	56	2.9	2	1370	.1	2	5	11650	1680	32	29150	25	2	60	1	10	17	1	8	1	11	3.2	110	3	3	2	67	1	95
10914	.7	16460	15	4	96	2.3	3	1420	.1	2	6	8500	2860	23	19880	29	5	100	1	30	25	1	7	3	20	2.6	107	4	4	5	134	4	85
10915	.7	21320	8	3	162	3.0	2	730	.1	2	5	9110	4000	28	24290	27	5	80	1	10	21	1	5	3	25	2.9	135	4	3	4	106	6	95
10916	.8	19180	11	2	142	2.8	2	7260	.1	2	5	9770	4250	23	23090	87	4	130	1	10	20	1	19	2	29	2.9	101	4	4	5	124	2	105
10917	1.1	21610	35	2	186	3.0	2	6160	.1	2	5	10220	5410	20	21410	38	5	110	1	30	19	1	29	3	29	2.8	106	5	3	4	105	13	105
10918	.8	27570	2	3	211	3.7	3	4820	.1	2	6	11640	5970	30	29400	50	5	120	1	10	22	1	17	2	38	3.5	116	3	3	6	164	3	90
10919	.6	23850	7	2	164	3.3	2	3580	.1	2	5	10360	5430	25	24100	30	4	160	1	10	29	1	14	3	39	3.1	126	4	5	4	99	5	80
10920	.8	13970	29	1	63	1.7	2	5110	.1	2	6	11380	2000	16	18980	51	7	220	1	50	23	1	14	1	24	4.1	80	5	5	8	189	2	105
10921	.8	21950	10	1	117	3.0	3	1380	.1	2	6	10830	4080	25	25670	27	6	60	1	20	19	1	6	2	29	3.2	112	3	4	5	135	1	75
10922	.7	15180	63	1	97	2.2	2	1510	.1	2	6	11000	3400	13	15900	26	6	80	1	40	24	1	6	2	24	2.6	104	6	3	6	149	3	95
10923	.6	16650	74	1	120	2.5	2	1010	.1	2	6	9990	4540	14	15530	24	6	60	1	50	27	1	5	4	30	2.3	125	5	6	5	110	2	130
10924	.7	13360	49	1	78	1.4	2	1310	.1	2	6	11780	2890	11	14220	34	7	100	1	30	21	2	5	1	25	3.6	85	5	2	7	178	3	95
10925	.7	13980	51	1	70	1.6	2	1360	.1	2	6	12610	2720	13	15990	31	6	90	1	40	25	1	5	1	23	3.0	84	5	2	5	119	1	115
10926	.9	9710	62	1	75	1.6	2	630	.1	2	6	9050	2910	6	7630	21	7	110	1	20	26	2	4	1	22	2.4	102	5	3	6	146	2	95
10927	1.2	9400	51	1	78	1.7	1	4510	.1	1	6	7660	3620	5	6740	28	4	60	2	20	24	2	20	2	25	2.1	128	4	3	6	135	2	250
10928	1.5	6900	34	1	60	1.2	1	1420	.1	1	6	6540	2850	4	4670	22	10	170	1	20	32	3	6	3	32	1.0	144	4	5	4	116	3	225
10929	1.9	8930	36	1	79	1.5	2	5380	.1	1	7	7100	3740	4	6570	58	14	120	1	20	60	4	30	3	38	1.8	201	5	3	6	159	1	430
10930	1.2	5230	49	1	45	.9	2	5920	.1	1	5	6720	2450	2	3970	24	7	150	1	10	50	2	33	1	24	1.3	163	4	5	5	117	1	700
10931	1.1	7340	63	1	104	1.7	2	3020	.1	1	7	6590	4030	2	3060	46	5	130	1	10	22	3	13	3	41	1.4	119	4	3	7	165	7	225
10932	1.4	5600	86	1	82	1.6	2	5740	.1	1	5	7360	3030	2	3780	46	7	130	1	10	25	3	18	3	40	1.3	100	4	4	6	155	21	120
10933	1.1	6140	71	1	135	2.0	2	3080	.1	1	5	6380	3360	2	2650	30	4	110	1	10	20	3	8	3	44	1.0	108	3	3	5	125	40	125
10934	1.2	5160	39	1	71	1.8	1	5500	.1	1	5	7630	2750	1	2680	44	5	120	1	10	20	2	19	2	40	1.2	100	3	3	4	109	102	95
10935	1.6	5530	105	1	72	1.9	1	5250	.1	1	8	9610	3220	3	2240	40	7	80	1	10	29	4	18	3	30	1.4	145	3	2	7	174	43	525
10936	1.5	4110	161	1	69	1.1	1	2440	.1	1	5	6920	2660	1	970	28	5	100	1	10	22	5	7	2	32	.8	88	2	5	5	130	22	365
10937	1.4	140	23	1	3	.1	1	10	.1	1	1	700	180	1	40	1	1	10	1	10	1	2	1	1	2	.8	1	5	1	1	9	18	305
10938	1.5	4760	59	1	74	1.2	2	970	.1	1	5	6510	3240	1	720	25	7	80	1	10	20	3	3	2	43	1.0	111	3	2	6	168	16	290
10939	1.1	5620	85	1	112	1.3	1	1050	.1	1	6	5090	3720	1	750	18	5	60	2	10	19	2	4	3	40	.9	98	3	3	6	167	3	310
10940	1.2	3720	80	1	91	1.0	1	1150	.1	1	4	4540	2650	1	650	17	5	50	2	10	26	3	4	1	33	.8	83	2	3	5	127	35	245
10941	1.1	7240	43	1	87	1.6	2	1140	.1	1	6	6770	4010	2	2290	25	6	80	1	10	21	2	4	3	62	1.3	93	4	2	8	211	108	200
10942	1.1	4010	32	1	47	1.0	1	3400	.1	1	6	5480	2440	1	1920	31	4	50	1	10	26	2	12	2	40	1.1	124	3	6	5	112	39	230
10943	1.1	11940	176	1	106	1.6	2	16650	.1	2	7	12250	1620	21	23220	141	10	230	7	20	19	8	45	1	16	4.0	83	3	3	5	129	1	230
10944	.8	14470	131	10	127	2.2	2	6120	.1	2	6	12000	2530	26	21300	48	11	140	10	10	25	10	13	3	22	4.1	133	3	3	3	80	4	160
10945	1.1	23190	134	5	107	2.4	2	8270	.1	3	7	18140	2230	51	39100	86	10	100	7	10	14	10	18	1	27	9.3	55	1	3	4	149	6	300
10946	.7	23180	107	5	79	2.4	1	5750	.1	2	5	15550	1890	53	40330	84	12	50	9	10	7	13	12	1	26	8.3	34	1	3	3	109	5	400
10947	1.2	21650	142	4	129	2.7	3	5290	.1	2	7	13580	3060	42	32180	73	17	60	19	10	13	17	9	1	28	11.2	32	1	3	7	202	31	385
10948	2.3	13850	285	3	193	2.4	1	1170	.1	2	8	15240	4240	16	12410	46	20	50	31	30	18	31	4	1	29	5.7	31	4	2	4	109	78	785
10949	3.3	6100	375	2	129	1.7	1	2880	.1	2	11	14560	2880	2	2330	40	37	40	35	70	20	30	5	1	19	4.0	40	2	2	9	227	104	350
10950	2.9	4010	273	11	166	.9	2	1310	3.7	4	30	15800	1580	8	2310	53	38	1380	58	300	25	51	6	1	27	42.8	458	2	1	9	197	1100	
10951	4.5	2620	409	7	59	.7	1	2380	3.6	3	32	17000	1370	2	630	53	34	1510	34	410	29	64	7	1	21	30.2	466	1	1	7	163	3000	
10952	3.2	2490	112	6	194	.4	1	650	1.7	2	32	7660	1290	3	370	41	34	2590	19	70	32	33	7	1	28	31.7	181	2	1	10	237	685	
10953	2.5	2250	108	5	72	.3	1	570	.1	2	32	7820	1150	3	580	33	24	1820	12	80	26	28	8	1	24	21.0	65	2	2	7	161	620	
10954	2.7	2660	144	5	60	.5	2	160	.1	3	55	14060	1480	2	330	49	38	1990	33	60	24	37	3	1	25	28.8	156	1	3	10	247	575	
10955	2.9	2020																															





**ENVIRONMENTAL  
LABORATORIES**

(DIVISION OF ASSAYERS CORP.)

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
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91-63

**VANCOUVER OFFICE:**

705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
FAX (604) 980-9621

**SMITHERS LAB.:**

3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

Assay Certificate

1S-0182-RA1

Company: COPELAND REBAGLIATI & ASSOC.  
Project: 9101  
Attn: MARK REBAGLIATI

Date: JUL-25-91  
Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.  
2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

*We hereby certify* the following Assay of 30 ROCK samples  
submitted JUL-22-91 by RICHARD HASLINGER.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton
10890	.22	.006
10891	.18	.005

Certified by

MIN-EN LABORATORIES

COPELAND REBAGLIATI & ASSOCIATES LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-64  
 SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 1048/9 CLAIM # : SIB 12,35  
 LOCAL GRID : 8666.54 N / 9912.05 E GLOBAL GRID : 12982.88 N / 17846.37 E  
 LENGTH : 45.70 m INCLINATION : -46.0 degrees ELEVATION : 1026.21 metres  
 OVERBURDEN : 9.80 m CASING : 9.80 metres AZIMUTH : 299.0 degrees  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/18 DATE DRILLED : 1991/07/17 CORE LOCATION: 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 10943-10965

SUMMARY LOG 91-64

From(m)	To(m)	Field Name (Legend)
0.00	9.80	CASING
9.80	13.00	BLACK CHERT - CHERT BRECCIA (3.3) +/- TUFFACEOUS RHYOLITE (3.9)
13.00	24.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a) +/- BLACK CHERT - CHERT BRECCIA (3.3)
24.00	35.00	SULPHIDIC MUDSTONE AND CHERT (3.5)
35.00	45.70	TUFFACEOUS RHYOLITE (3.9)

45.70 END OF HOLE.

ANALYTICAL HIGHLIGHTS 91-64

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
---------	-------	-----------	-----------	-----------	------	------

No significant results.

From(m)	To(m)	Description
0.00	9.80	CASING
9.80	13.00	BLACK CHERT - CHERT BRECCIA (3.3) +/- TUFFACEOUS RHYOLITE (3.9)
13.00	24.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a) +/- BLACK CHERT - CHERT BRECCIA (3.3)

## Lithology

-Medium to dark grey, siliceous, very hard, fragments of black mudstone or rhyolite, quartz, and rarer dacite? in an aphanitic to very fine grained matrix. Somewhat "dirty" looking unit, due to its proximity to the mudstone? Some short sections have a fragmental texture but no internal contacts found. Possible tuff band from 11.9 - 12.9m, hard, greyish green.

## Structure

-Semi-massive throughout, clasts or beds where developed @ 75 - 80 degrees to c/a. Lower contact @ 80 degrees to c/a, mudstone clasts "ripped up" into flow sequence.

24.00 35.00 SULPHIDIC MUDSTONE AND CHERT (3.5)

## Lithology

-Black, massive appearance, siliceous, aphanitic, internal structure not common in this section; also a lack of syngenetic pyrite and silt/pelagic debris; rock appears to have a more volcanic/silica component. Blocky, very hard, cut by breccia type dyke @ 25.3 - 25.6m, 29.0m, 29.5 - 29.6m, 30.7m, 30.8m, and 40.3m. The dykes appear to have added pyrite to the unit.

## Structure

-Semi-massive, unoriented, contacts fairly sharp to abrupt, but some volcanic debris present from 34.5 - 36.0 metres.  
-Fault at 25.9 - 28.6m, broken, rubbly core, weakly graphitic, no gouge or veining.

## Alteration

-Silicified, moderate to strong.

## Mineralization

-Mineralization: syngenetic at isolated spots, where present. Dips 70 - 75 degrees to c/a. Epigenetic, associated with the breccia type dykes. Pyrite runs from 1 - 3% in these cross-cutting zones.

35.00 45.70 TUFFACEOUS RHYOLITE (3.9)

## Lithology &lt;35.0&gt;-&lt;39.6&gt;

-See 9.8 - 24.0m interval also. Very similar, hard, dirty grey-black, bedding close to 80 degrees to c/a. Unmineralized.

## Lithology &lt;39.6&gt;-&lt;43.1&gt;

-Mottled green-grey colour, almost wormy texture, irregular within a fault zone, hard siliceous, but some weak sericite alteration.

From(m) To(m) -----Description-----

Structure

-Faulted between 39.6 and 43.1m. Upper contact @ 40 degrees (stepped contact), lower contact at 65 degrees. Gouge and "clay veining" from 39.6 - 40.2m, and 42.7 - 43.1m.

Alteration

-Sericitic alteration (very weak), silicification, and later low temperature clay alteration.

Mineralization

-Unmineralized.

Lithology <43.1>-<44.5>

-Grey-green, clasts/crystals rest suspended in an aphanitic grey matrix. Problematic formational unit.

Structure

-Semi-massive, hard, bedding close to 80 degrees, appears to grade into a felsic tuff or rhyolitic flow.

Mineralization

-Unmineralized.

Lithology <44.5>-<45.7>

-Greyish green, silicified, very hard, weakly sericitized, more dacitic? fragments in a hard siliceous, very fine grained matrix.

Structure

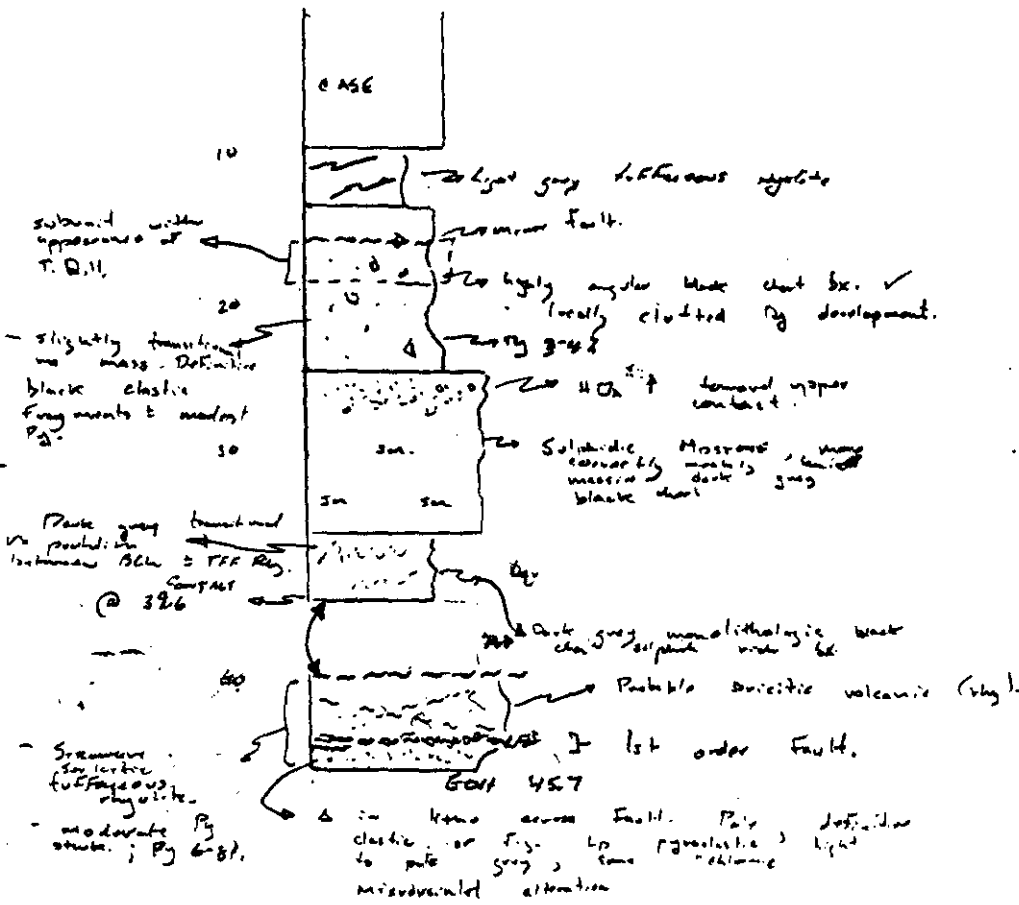
-Bedding? at 70 degrees to c/a.

Mineralization

-Unmineralized.

45.70 END OF HOLE.

DDH 91-64.



Py - Serran development  
 asymmetric.  
 Strongest Py  
 source @ 39.6-  
 45.7; structural  
 F.W.; cont

Note: major deformation at 42.0; good linkage structure.

Structural Data:

12.5	↘	053°
18.6	↘	076°
23.4	↘	058°
31.2	↘	048°
44.5	↘	057°

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-64	10943	9.80	12.00	2.20	-	-	1	-	-	1.1	176	8	106	230	7	19	83	12250	16650
91-64	10944	12.00	14.00	2.00	-	-	4	-	-	0.8	131	10	127	160	6	25	133	12000	6120
91-64	10945	14.00	16.00	2.00	-	-	6	-	-	1.1	134	10	107	300	7	14	55	18140	8270
91-64	10946	16.00	18.00	2.00	-	-	5	-	-	0.7	107	13	79	400	5	7	34	15550	5750
91-64	10947	18.00	20.00	2.00	-	-	31	-	-	1.2	142	17	129	385	7	13	32	13580	5290
91-64	10948	20.00	22.00	2.00	-	-	78	-	-	2.3	285	31	193	785	8	18	31	15240	1170
91-64	10949	22.00	24.00	2.00	-	-	104	-	-	3.3	375	30	129	350	11	20	40	14560	2880
91-64	10950	24.00	25.00	1.00	0.16	0.005	0	-	-	2.9	273	51	166	1100	30	25	458	15800	1310
91-64	10951	25.00	26.00	1.00	0.44	0.013	0	-	-	4.5	409	64	59	3000	32	29	466	17000	2380
91-64	10952	26.00	27.00	1.00	0.18	0.005	0	-	-	3.2	112	33	194	685	32	32	181	7660	650
91-64	10953	27.00	28.00	1.00	0.24	0.007	0	-	-	2.5	108	28	72	620	32	26	65	7820	570
91-64	10954	28.00	29.00	1.00	0.18	0.005	0	-	-	2.7	144	37	60	575	55	24	156	14060	160
91-64	10955	29.00	30.00	1.00	0.22	0.006	0	-	-	2.9	163	44	41	750	36	25	237	13850	930
91-64	10956	30.00	31.00	1.00	0.16	0.005	0	-	-	2.7	236	53	59	675	30	36	360	19070	1750
91-64	10957	31.00	32.00	1.00	0.10	0.003	0	-	-	2.0	226	44	56	735	23	35	238	15300	1150
91-64	10958	32.00	33.00	1.00	0.18	0.005	0	-	-	2.6	235	48	94	640	41	36	152	17180	210
91-64	10959	33.00	34.00	1.00	0.04	0.001	0	-	-	2.0	162	37	60	685	38	24	474	12450	910
91-64	10960	34.00	35.00	1.00	0.03	0.001	0	-	-	2.2	205	39	183	750	35	28	342	14540	270
91-64	10961	35.00	37.00	2.00	-	-	82	-	-	2.0	139	17	308	410	9	14	163	8830	4010
91-64	10962	37.00	39.60	2.60	-	-	38	-	-	1.8	115	14	82	300	8	13	169	7300	4130
91-64	10963	39.60	41.50	1.90	-	-	39	-	-	1.4	177	21	57	430	6	17	89	11590	5670
91-64	10964	41.50	43.10	1.60	-	-	18	-	-	1.1	151	17	55	335	7	19	97	11740	9060
91-64	10965	43.10	45.70	2.60	-	-	2	-	-	0.7	85	5	137	275	6	20	149	14230	9780

ATTN: M. REBAGLIATI

SAMPLE NUMBER	AG	AL	AS	B	BA	BE	BI	CA	CD	CO	CU	FE	K	LI	MG	MN	MO	NA	NI	P	PB	SB	SR	TH	TI	V	ZN	GA	SN	W	CR	AU	FIRE	HG
10908	.8	21780	24	1	145	3.6	2	620	.1	2	6	9810	4700	21	21870	23	5	130	1	10	19	1	4	2	34	2.2	118	4	4	5	124	1	170	
10909	.8	20410	18	1	119	3.1	2	5340	.1	2	5	10810	3750	25	26270	34	5	100	1	10	19	1	31	2	29	3.1	90	3	3	5	80	1	160	
10910	1.0	6290	21	1	109	1.9	1	13330	.1	2	6	9880	2020	10	13270	65	6	100	1	40	28	1	77	2	7	2.4	120	3	3	5	116	2	130	
10911	.9	17660	8	1	96	2.8	2	2700	.1	2	5	9390	2740	22	23550	40	2	80	1	20	27	1	14	2	15	2.7	118	4	3	5	63	1	120	
10912	.8	18410	5	1	64	2.7	2	3320	.1	2	6	9690	1970	28	25760	34	5	90	1	10	23	1	14	1	13	2.7	114	3	4	5	135	1	125	
10913	.8	19860	6	1	56	2.9	3	1370	.1	2	5	11650	1680	32	29150	25	2	60	1	10	17	1	8	1	11	3.2	110	3	3	2	67	1	95	
10914	.7	16460	15	4	96	2.3	3	1420	.1	2	6	8500	2860	23	19880	29	5	100	1	10	25	1	7	3	20	2.6	107	4	4	5	134	4	85	
10915	.7	21320	8	3	162	3.0	2	730	.1	2	5	9110	4000	28	24290	27	5	80	1	10	21	1	5	3	25	2.9	135	4	3	4	106	6	95	
10916	.8	19180	11	2	142	2.8	2	7260	.1	2	5	9770	4250	23	23090	87	4	130	1	10	20	1	19	2	29	2.9	101	4	4	5	124	2	105	
10917	1.1	21610	35	2	186	3.0	2	6160	.1	2	5	10220	5410	20	21410	38	5	110	1	10	19	1	29	3	29	2.8	106	5	3	4	105	13	105	
10918	.8	27570	2	3	211	3.7	3	4820	.1	2	6	11640	5970	30	29400	50	5	120	1	10	22	1	17	2	38	3.5	116	3	3	6	164	3	90	
10919	.6	23850	7	2	164	3.3	2	3580	.1	2	5	10360	5430	25	24100	30	4	160	1	10	29	1	14	3	39	3.1	126	4	5	4	99	5	80	
10920	.8	13970	29	1	63	1.7	2	5110	.1	2	6	11380	2000	16	18980	51	7	220	1	10	23	1	14	1	24	4.1	80	5	5	8	189	2	105	
10921	.8	21950	10	1	117	3.0	3	1380	.1	2	6	10830	4080	25	25670	27	6	60	1	10	19	1	6	2	29	3.2	112	3	4	5	135	1	75	
10922	.7	15180	63	1	97	2.2	2	1510	.1	2	6	11000	3400	13	15900	26	6	80	1	40	24	1	6	2	24	2.6	104	6	3	6	149	3	95	
10923	.6	16650	74	1	120	2.5	2	1010	.1	2	6	9990	4540	14	15330	24	6	100	1	50	27	1	5	4	30	2.3	125	5	6	5	110	2	130	
10924	.7	13360	49	1	178	1.4	2	1310	.1	2	6	11780	2890	11	14220	34	7	100	1	10	21	2	5	4	25	3.6	85	5	2	7	178	3	225	
10925	.7	13980	51	1	70	1.6	2	1360	.1	2	6	12610	2720	13	15990	31	6	90	1	40	25	1	5	1	23	3.0	84	5	5	6	159	1	430	
10926	.9	9710	62	1	104	1.7	2	3020	.1	1	7	6590	4030	2	3060	46	5	130	1	10	22	3	13	3	41	1.4	119	4	3	7	165	7	225	
10927	1.2	9400	51	1	78	1.7	1	4510	.1	1	6	9050	3620	5	6740	28	4	60	2	20	24	2	20	2	25	2.4	102	5	3	6	166	2	250	
10928	1.5	6900	34	1	60	1.2	1	1420	.1	1	6	6540	2850	4	4670	22	10	170	1	20	32	3	6	3	32	1.0	144	4	5	4	116	4	21	
10929	1.9	8930	36	1	79	1.5	2	5380	.1	1	5	7100	3740	4	6570	58	14	120	1	10	20	2	30	3	38	1.8	201	5	3	6	159	3	40	
10930	1.2	5230	49	1	45	.9	2	5920	.1	1	5	6720	2450	2	3970	24	7	150	1	10	50	2	33	1	24	1.3	163	4	5	5	117	1	700	
10931	1.1	7360	63	1	104	1.7	2	3020	.1	1	7	6590	4030	2	3060	46	5	130	1	10	22	3	13	3	41	1.4	119	4	3	7	165	7	225	
10932	1.4	5600	86	1	82	1.6	2	5740	.1	1	5	7360	3030	2	3780	46	7	150	1	10	25	3	18	3	40	1.3	100	4	4	6	155	2	120	
10933	1.1	6160	71	1	135	2.0	2	3080	.1	1	5	6380	3360	2	2650	30	4	110	1	10	20	3	8	3	44	1.0	108	3	3	5	125	4	125	
10934	1.2	5160	39	1	71	1.8	1	5500	.1	1	5	7630	2750	1	2680	44	5	120	1	10	20	2	19	2	40	1.2	100	3	3	4	109	10	95	
10935	1.6	5530	105	1	72	1.9	1	5250	.1	1	8	9610	3220	3	2240	40	7	80	1	10	29	4	18	3	30	1.4	145	3	2	7	174	43	525	
10936	1.5	4110	161	1	69	1.1	1	2440	.1	1	5	6920	2660	1	970	28	5	100	1	10	22	5	7	2	32	.8	88	2	5	5	150	22	365	
10937	1.4	140	23	1	3	.1	1	10	.1	1	1	700	180	1	40	1	1	10	1	10	1	2	1	1	2	.8	1	5	1	1	9	18	305	
10938	1.5	4760	59	1	74	1.2	2	970	.1	1	5	6510	3240	1	720	25	7	80	1	10	20	3	3	2	43	1.0	111	3	2	6	168	16	290	
10939	1.1	5620	85	1	112	1.3	2	1050	.1	1	6	5090	3720	1	750	18	5	60	2	10	19	2	4	3	22	.9	98	3	3	3	80	3	310	
10940	1.2	3720	80	1	91	1.0	1	1150	.1	1	4	4540	2650	1	650	10	5	50	2	10	26	3	4	1	33	.8	83	2	3	5	127	35	245	
10941	1.1	7240	43	1	87	1.6	2	1140	.1	1	6	6770	4010	2	2290	25	6	80	1	10	21	2	4	3	62	1.3	93	4	2	8	211	108	200	
10942	1.1	4010	32	1	47	1.0	1	3400	.1	1	6	5480	2440	1	1920	31	4	50	1	10	26	2	12	2	40	1.1	124	3	6	5	112	39	230	
10943	1.1	11940	176	1	106	1.6	2	16650	.1	2	7	12250	1620	21	23220	141	10	230	7	20	19	8	45	1	16	4.0	83	3	3	5	129	1	230	
10944	.8	14470	131	10	127	2.2	2	6120	.1	2	6	12000	2530	26	21300	48	11	140	10	10	25	10	13	3	22	4.1	133	3	3	3	80	4	160	
10945	1.1	23190	134	5	107	2.4	2	8270	.1	3	7	18140	2230	51	39100	86	10	100	7	10	14	10	18	1	27	9.3	55	1	3	4	149	6	300	
10946	.7	23190	107	5	79	2.4	1	5750	.1	2	5	15550	1890	53	40330	84	12	50	9	10	7	13	12	1	26	8.3	54	1	3	3	109	5	400	
10947	4.5	2620	409	7	59	.7	1	2380	3.6	3	32	17000	1370	2	530	53	34	1510	34	410	29	64	7	1	21	30.2	466	1	1	7	163	3000	685	
10948	2.2	2490	112	6	194	.4	1	650	1.7	2	8	15240	4240	16	12410	46	20	50	31	30	18	31	4	1	29	5.7	31	4	2	4	109	78	350	
10949	3.3	6100	375	2	129	1.7	1	2880	.1	2	11	145																						



**MIN-EN LABORATORIES**  
 (DIVISION OF ASSAYERS CORP.)

91-64

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
 CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

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 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
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 FAX (604) 980-9621

**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Assay Certificate

1S-0182-RA1

Company: **COPELAND REBAGLAITI & ASSOC.**  
 Project: 9101  
 Attn: **MARK REBAGLIATI**

Date: **JUL-25-91**  
 Copy 1. **COPELAND REBAGLIATI & ASSOC., VAN., B.C.**  
 2. **COPELAND REBAGLIATI, C/O MIN-EN LABS.**

*We hereby certify* the following Assay of 30 ROCK samples  
 submitted JUL-22-91 by **RICHARD HASLINGER.**

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton
10950	.16	.005
10951	.44	.013
10952	.18	.005
10953	.24	.007
10954	.18	.005
10955	.22	.006
10956	.16	.005
10957	.10	.003
10958	.18	.005
10959	.04	.001
10960	.03	.001

Certified by \_\_\_\_\_

**MIN-EN LABORATORIES**



From(m)	To(m)	-----Description-----
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0.00	2.20	CASING
2.20	9.10	TUFFACEOUS RHYOLITE -SERICITE (3.9a) +/- BLACK CHERT - CHERT BRECCIA

## Lithology

-Medium grey, siliceous, hard, semi-rounded and angular quartzose clasts in an aphanitic matrix, devoid of clastic/mudstone material, fresher volcanic. Weakly fractured or cracked.

## Structure

-Massive to semi-massive, surface fractures with limonic staining common; breccia type fractures have syngenetic pyrite.

## Alteration

-Silicified, hard to very hard. Lower contact (cherty unit of 10cm width) sharp. Probably a deformation contact.

## Mineralization

-0.25 - 0.5% pyrite from 7.0 - 9.1 metres, fracture filling.

9.10	12.20	SULPHIDIC MUDSTONE AND CHERT (3.5)
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## Lithology

-Black, siliceous, hard, blocky appearance, bedding/foliation not apparent

## Structure

-Contacts sharp, fracture/shear controlled. Lower contact @ 33 degrees to c/a, veined, quartz-carbonate vein. Mudstone has small to very small networking fractures, filled with amorphous vein material and epigenetic pyrite.

## Alteration

-Silicified, hard to very hard.

## Mineralization

-Epigenetic pyrite, or remobilized syngenetic pyrite? <0.75% of interval.

12.20	36.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
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## Lithology

-Similar to the unit above the mudstone, but more sericitized, probably the unit is closer to rhyodacite in composition. Brecciated texture, fragments/clasts in an aphanitic greenish grey matrix, fragments are both siliceous and more feldspathic (sericitic). Flows or tops separated by tuff of "interflow sediment" material. Brecciation and fragment size increase up hole.

From(m) To(m) -----Description-----

Structure

-Semi-massive to massive with some poorly foliated zones; not reliable for measurements.

Alteration

-Very weak (vein type) carbonate alteration crisscrossing thin <1mm carbonate veins common; but matrix is not carbonatized. Sericitic alteration (very weak) increases to weak near lower contact. E.g. rhyodacite to rhyolite up hole? Silicified throughout (moderate).

Mineralization

-Unmineralized.

36.00 51.00 RHYOLITE FLOW (AUTOBRECCIATED) (3.8) +/- RHYODACITIC FRAGMENTAL (3.0)

Lithology <36.0>-<39.6>

-Fragmental type tuff in a grey-green aphanitic matrix, fragments and crystals are suspended in this matrix. Increasing % of fragments from <10% to 40% towards lower contact. Tops up hole?

Structure

-This unit is weakly to moderately foliated due to a weak shear zone from 37.6 - 40.0m, at 25 - 35 degrees to c/a.

Alteration

-Weak sericitic alteration, moderate silica alteration.

Mineralization

-Unmineralized.

Lithology <39.6>-<55.0>

-Light greenish-grey, <10% dark green subangular fragments in an aphanitic matrix, percent of brecciation varies, as does the % of fragments. Matrix appears to be siliceous.

Structure

-Semi-massive throughout. Broken core from 50.1 - 55.0m. Fault zone, gouge @ 53.5 - 53.7, 54.0 (10cm), 54.9 (10cm). Lower contact at 55 degrees to c/a, sharp.

Alteration

-Weak sericite alteration, silica overprint -moderate.

Mineralization

-Unmineralized.

From(m)	To(m)	Description-----
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51.00	73.40	TUFFACEOUS RHYOLITE (3.9) +/- RHYODACITIC FRAGMENTAL (3.0)
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Lithology <55.0>-<70.1>

-Greenish grey, uniform colour, fragmental and ash textures common, no one texture dominates, % fragments varies from <5% to 25%, some layers may be crystal rich, with feldspathic composition. Fragment composition is from green rhyolite to rarer black cherty rhyolite to grey-green dacitic; but no accurate distribution is known. Matrix is very fine to aphanitic, ash green. Fragments embedded in ash.

Structure

-Weak foliation or bedding common, with angles to c/a as follows: 57.0m -60 degrees, 60.0m -58 degrees, 65.0m -50 degrees, 69.0m -42 degrees.  
 -Shear zone or weak shearing from 66.0 - 72.0m. Foliation rotated from 60 to 40 degrees. Fault zone? at 66.6 to 67.0m, 40cm of lost core - most shearing or foliation "taken up" below the fault zone. Zone is marked by carbonate flooding into rock to end of hole (see below).

Alteration

-Weak sericite alteration, silicified by less than moderate -rock is hard, but is scratchable in moderately sericitized zones. Carbonate flooding @ 67.8 - 68.05 (70% carbonatic rock), @ 68.5 - 69.0m (25% flooding carbonatization of rock). Carbonatization follows foliation.

Mineralization

-Unmineralized.

Lithology <70.1>-<73.4>

-Grey-black, very similar to unit above, except that isolated clasts of mudstone or siliceous cherty rhyolite? that carries 2 - 3% pyrite. Overall there is <5% black mudstone material.

Structure

-Lower contact marked with 40 - 45 degrees to c/a angles in "shear zone" see above, to 65 degrees at 73.0 metres. Lower contact marked by carbonic vein material and massive rock.

Alteration

-Weak sericite alteration, very weak spotty carbonate alteration, silica overprint.

Mineralization

-<0.5% pyrite. Pyrite concentrated in the mudstone zones.

From(m)	To(m)	Description
73.40	76.20	RHYODACITIC FRAGMENTAL (3.0) +/- RHYODACITIC FLOW (3.1)

Lithology

-Mottled, greyish green to medium grey; textures obscured by some quartz-feldspar and carbonate veining. Brecciated texture; matrix is aphanitic, sericitic, but still hard.

Structure

-Massive to semi-massive throughout.

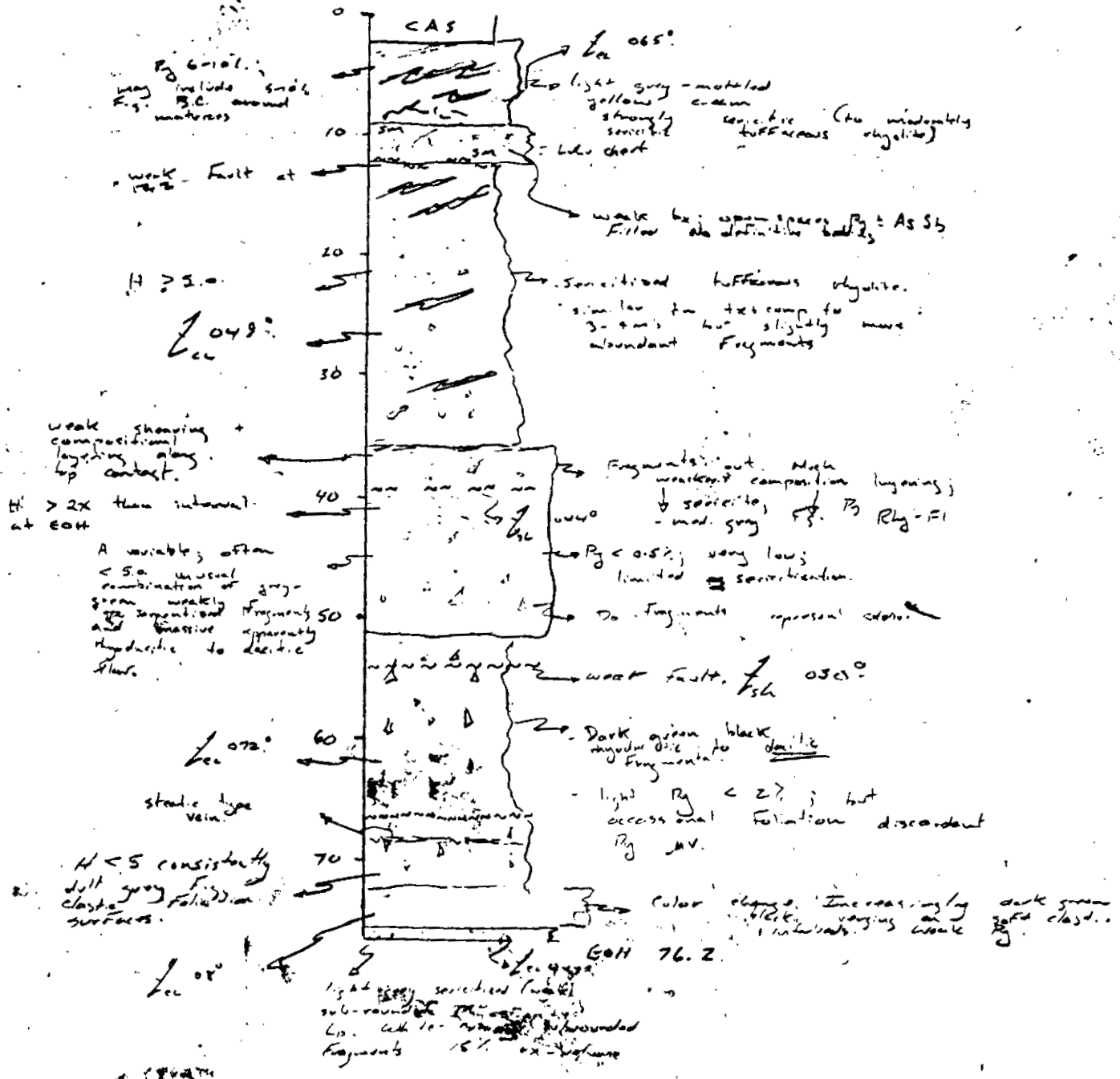
Alteration

-Weak sericite alteration, silicified (overprint); vein alteration by quartz-feldspar-vug-cavity filling? stockworking also. Carbonate veining is more spotty, and occurs on a smaller scale. Patches of carbonate common from 73.7 - 75.2 metres.

Mineralization

-Mineralization <2% pyrite, associated with the quartz-feldspar veining. Pyritic at "wallrock" contacts. No pyrite found within the carbonatic zones.

76.20      END OF HOLE.



P3 6.1%  
may include small  
P.C. around  
matrices

La 065°  
light grey - mottled  
yellow  
strongly sericitic  
chloritic (to weakly  
tuffaceous (to micaceous  
siltstone)

weak fault at 10m

weak by open spaces P3 ± As Sb  
filler also detrital matter

H > 2x

sericitic tuffaceous siltstone.  
similar to top comp for  
3-4m but slightly more  
abundant fragments

La 049°  
cc

weak showing  
compositional  
layering along  
top contact.

H > 2x than interval  
at 40m

fragments of P3  
weakly composition layering  
sericitic, P3 P4 P5 P6 P7 P8 P9 P10 P11 P12 P13 P14 P15 P16 P17 P18 P19 P20 P21 P22 P23 P24 P25 P26 P27 P28 P29 P30 P31 P32 P33 P34 P35 P36 P37 P38 P39 P40 P41 P42 P43 P44 P45 P46 P47 P48 P49 P50 P51 P52 P53 P54 P55 P56 P57 P58 P59 P60 P61 P62 P63 P64 P65 P66 P67 P68 P69 P70 P71 P72 P73 P74 P75 P76 P77 P78 P79 P80

A variable, often  
< 5m, unusual  
combination of  
green weakly  
sericitic fragments 50%  
massive apparently  
hydrothermal to diagenetic  
flow.

P3 < 0.5% very low  
limited sericitization.

Do fragments represent above

La 072°  
cc

weak fault, Psk 030°

Dark green black  
angular bits to  
fragments.

streak-like  
vein

light P3 < 2% but  
excess small foliation discordant  
P3 MV.

H < 5 consistently  
dull grey fissile  
clastic surfaces.

color change, increasingly  
dark green to black clastic  
surfaces

GCH 76.2

La 08°  
cc

light grey sericitic (to chloritic)  
sub-rounded to rounded  
fragments 15% or more

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-65	10966	2.20	4.00	1.80	-	-	1	-	-	0.6	156	6	165	215	7	34	158	11580	980
91-65	10967	4.00	6.00	2.00	-	-	3	-	-	0.6	195	13	153	420	8	36	144	20400	5740
91-65	10968	6.00	7.50	1.50	-	-	2	-	-	0.3	262	37	106	1700	8	56	182	33400	3260
91-65	10969	7.50	9.10	1.60	-	-	4	-	-	0.8	122	13	547	345	7	25	92	9760	6640
91-65	10970	9.10	10.00	0.90	0.26	0.008	0	-	-	14.5	293	75	71	2300	37	59	49	19150	3710
91-65	10971	10.00	11.00	1.00	0.17	0.005	0	-	-	7.2	127	37	66	650	31	37	103	12690	2230
91-65	10972	11.00	12.20	1.20	0.16	0.005	0	-	-	4.7	135	34	109	515	35	41	163	14590	5890
91-65	10973	12.20	14.00	1.80	-	-	9	-	-	1.0	36	4	119	160	5	19	97	7880	10060
91-65	10974	14.00	16.00	2.00	-	-	1	-	-	0.6	53	4	138	125	5	21	112	9320	870
91-65	10975	16.00	18.00	2.00	-	-	3	-	-	0.9	86	7	122	165	5	25	136	10800	12060
91-65	10976	18.00	20.00	2.00	-	-	6	-	-	1.0	88	6	106	145	6	21	103	9670	18640
91-65	10977	20.00	22.00	2.00	-	-	10	-	-	1.0	104	7	121	150	6	21	88	11120	17440
91-65	10978	22.00	24.00	2.00	-	-	4	-	-	0.9	96	7	89	155	5	21	87	11010	18490
91-65	10979	24.00	26.00	2.00	-	-	7	-	-	0.8	88	5	101	135	6	19	97	10210	16580
91-65	10980	26.00	28.00	2.00	-	-	2	-	-	1.0	56	5	125	145	5	19	112	10300	18460
91-65	10981	28.00	30.00	2.00	-	-	1	-	-	0.7	58	3	143	110	6	19	94	9120	8470
91-65	10982	30.00	32.00	2.00	-	-	2	-	-	0.8	61	5	78	115	5	21	92	8570	8050
91-65	10983	32.00	34.00	2.00	-	-	4	-	-	0.8	55	4	125	115	6	16	98	8630	6810
91-65	10984	34.00	36.00	2.00	-	-	2	-	-	0.8	45	4	120	135	5	16	83	9540	7300
91-65	10985	36.00	38.00	2.00	-	-	6	-	-	0.9	159	17	192	360	8	45	218	20400	9640
91-65	10986	38.00	40.10	2.10	-	-	18	-	-	1.0	81	7	108	170	7	28	136	12420	17220
91-65	10987	40.10	42.00	1.90	-	-	2	-	-	1.0	79	6	119	150	6	25	94	12290	15100
91-65	10988	42.00	44.00	2.00	-	-	5	-	-	0.7	24	1	69	120	5	13	117	11400	7860
91-65	10989	44.00	46.00	2.00	-	-	2	-	-	0.9	28	2	70	140	4	15	100	9270	800
91-65	10990	46.00	48.00	2.00	-	-	3	-	-	0.6	53	2	192	165	6	22	189	14990	1360
91-65	10991	48.00	50.00	2.00	-	-	7	-	-	0.6	50	1	139	210	6	18	137	16330	1250
91-65	10992	50.00	52.00	2.00	-	-	2	-	-	0.7	41	1	134	120	6	26	171	13090	2190
91-65	10993	52.00	54.00	2.00	-	-	4	-	-	0.7	51	1	158	120	7	28	130	11480	3900
91-65	10994	54.00	56.00	2.00	-	-	2	-	-	0.7	60	2	70	210	6	26	143	14720	1990
91-65	10995	56.00	58.00	2.00	-	-	1	-	-	0.8	67	1	77	135	6	24	143	14230	1240
91-65	10996	58.00	60.00	2.00	-	-	3	-	-	0.7	97	1	136	120	6	23	156	15920	2260
91-65	10997	60.00	62.00	2.00	-	-	2	-	-	0.8	60	1	135	150	6	21	143	14970	3970
91-65	10998	62.00	64.00	2.00	-	-	4	-	-	0.9	39	1	178	190	6	15	142	14660	6580
91-65	10999	64.00	66.00	2.00	-	-	3	-	-	0.9	52	1	238	245	6	21	173	15500	2960
91-65	11000	66.00	67.80	1.80	-	-	2	-	-	1.3	53	4	249	375	6	23	141	13170	14570
91-65	11001	67.80	69.00	1.20	-	-	39	-	-	4.3	1	6	378	485	6	22	132	12020	49510
91-65	11002	69.00	71.00	2.00	-	-	11	-	-	2.4	37	6	178	540	6	25	151	12530	10210
91-65	11003	71.00	72.30	1.30	-	-	20	-	-	2.1	63	3	167	360	6	22	124	14930	7750
91-65	11004	72.30	73.40	1.10	-	-	16	-	-	2.7	111	6	234	655	7	38	181	13420	4030
91-65	11005	73.40	74.90	1.50	-	-	22	-	-	3.2	11	1	405	295	8	7	101	14920	54220
91-65	11006	74.90	76.20	1.30	-	-	140	-	-	8.0	309	12	179	450	8	101	204	18160	8560

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ35+3  
 DATE: 91/10/1  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPM	HPB	HG
10964	1.1	4160	151	1	55	.9	1	9060	.1	2	7	11740	1610	1	5220	54	20	50	14	30	19	17	45	1	16	2.4	97	3	2	10	263	18	335	
10965	.7	14440	85	1	137	2.5	2	9780	.1	2	6	14230	3570	20	17370	57	11	150	2	30	20	5	43	3	19	2.7	149	4	3	5	125	2	275	
10966	.6	9480	156	2	165	2.0	1	980	.1	1	7	11580	3360	7	6990	16	9	100	1	40	34	6	4	7	24	1.5	158	4	2	2	53	1	215	
10967	.6	5870	195	2	153	1.2	1	5740	.1	2	8	20400	2730	2	5710	31	8	290	2	40	36	13	15	5	24	2.1	144	3	2	4	87	3	420	
10968	.3	4840	262	3	106	1.4	1	3260	.1	3	8	33400	2520	1	3100	12	12	110	1	30	56	37	9	4	20	1.1	182	1	2	2	38	2	1700	
10969	.8	3400	122	1	547	.8	1	6640	.1	2	7	9760	1740	1	3200	50	10	190	10	30	25	13	21	1	16	2.3	92	2	2	5	143	4	345	
10970	14.5	3480	293	3	71	.5	2	3710	.1	5	37	19150	1870	2	520	70	27	1600	70	1050	59	75	7	1	24	22.3	49	1	2	6	141	2300		
10971	7.2	3080	127	3	66	.3	1	2230	.2	4	31	12690	1670	1	430	56	29	1900	49	610	37	37	4	1	20	21.0	103	1	1	8	206	650		
10972	4.7	3950	135	3	109	.5	2	5890	.1	4	35	14590	2100	1	2410	89	25	1690	41	390	41	34	14	1	23	24.7	163	2	1	5	122	515		
10973	1.0	12210	36	1	119	1.5	2	10060	.1	1	5	7880	2040	19	20870	72	7	140	4	20	19	4	35	2	31	3.3	97	4	2	4	100	9	160	
10974	.6	14160	53	2	138	1.6	2	870	.1	2	5	9320	2450	20	18630	34	10	160	4	30	21	4	4	2	27	2.7	112	4	3	6	162	1	125	
10975	.9	10490	86	1	122	1.4	2	12060	.1	2	5	10800	2230	13	14910	74	11	120	2	30	25	7	44	2	24	2.9	136	4	3	4	104	3	165	
10976	1.0	11350	88	1	106	1.5	2	18640	.1	2	6	9670	1720	16	21410	136	12	150	4	30	21	6	70	1	18	3.9	103	3	3	6	155	6	145	
10977	1.0	13300	104	1	121	1.7	2	17440	.1	2	6	11120	2220	19	21790	120	11	90	2	20	21	7	70	3	27	3.5	88	3	10	4	86	10	150	
10978	.9	10790	96	1	89	1.2	2	18490	.1	2	5	11010	1660	15	18280	130	12	270	2	40	21	7	64	2	22	3.9	87	3	3	6	153	4	155	
10979	.8	13930	88	1	101	1.6	2	16580	.1	2	6	10210	2100	21	22700	145	18	160	3	10	19	5	61	1	23	3.8	97	2	2	8	203	7	135	
10980	1.0	13070	56	1	125	1.8	2	18460	.1	2	5	10300	2340	17	21180	180	15	120	1	20	19	5	64	3	24	3.4	112	3	2	4	101	2	145	
10981	.7	14460	58	1	143	1.5	2	8470	.1	2	6	9120	2100	22	22800	109	15	230	2	20	19	3	24	1	24	3.6	94	3	2	9	237	1	110	
10982	.8	11310	61	1	78	1.2	2	8050	.1	1	5	8570	1700	16	17280	96	13	250	1	20	21	5	20	2	25	3.2	92	4	3	6	158	2	115	
10983	.8	16560	55	1	125	1.9	2	6810	.1	2	6	8630	2750	22	23580	98	15	170	2	20	16	4	19	2	31	3.6	98	3	3	8	223	4	115	
10984	.8	16630	45	2	120	1.9	2	7300	.1	2	5	9540	2440	24	24340	86	13	160	1	10	16	4	20	2	27	3.6	83	3	3	6	151	2	135	
10985	.9	9090	159	2	192	2.4	1	9640	.1	2	8	20400	4110	3	6560	62	33	110	1	70	45	17	31	7	31	2.0	218	5	2	6	133	6	360	
10986	1.0	9430	81	1	108	1.8	3	17220	.1	2	7	12420	2730	11	18920	76	12	180	1	30	28	7	54	5	20	3.3	136	4	3	4	103	18	170	
10987	1.0	16310	79	1	119	2.7	2	15100	.1	2	6	12290	2630	22	24220	213	9	170	1	20	25	6	36	3	21	3.7	94	4	4	4	117	2	150	
10988	.7	21480	24	7	69	2.4	2	7860	.1	2	5	11400	1540	42	35550	103	9	230	1	10	13	1	15	1	16	3.9	117	1	3	4	125	5	120	
10989	.9	18690	28	2	70	2.5	3	800	.1	2	4	9270	1520	33	28170	29	6	190	1	10	15	2	5	1	16	3.3	100	4	3	3	95	2	140	
10990	.6	27680	53	3	192	4.1	2	1360	.1	2	6	14990	4130	43	35310	29	8	240	1	10	22	2	6	2	30	3.5	189	1	4	1	59	3	165	
10991	.6	26180	50	2	139	3.6	2	1250	.1	2	6	16330	2520	50	39260	35	10	220	1	10	18	1	5	1	24	3.3	137	1	4	2	86	7	210	
10992	.7	23370	41	2	134	3.9	2	2190	.1	2	6	13090	3460	37	30480	27	7	120	1	10	26	1	10	3	18	3.1	171	1	2	1	43	2	120	
10993	.7	18500	51	3	158	3.3	3	3900	.1	2	7	11480	2900	27	23630	27	6	90	1	10	28	1	15	3	17	2.9	130	2	3	3	76	4	120	
10994	.7	22180	60	1	70	3.3	2	1990	.1	2	6	14720	1960	39	34330	25	5	70	1	10	26	2	8	2	15	3.1	143	1	4	1	56	2	210	
10995	.8	22700	67	1	77	3.2	2	1240	.1	2	6	14230	2260	39	35550	30	5	110	1	10	24	1	5	2	15	3.1	143	1	4	1	52	1	135	
10996	.7	23350	97	1	136	3.5	2	2260	.1	2	6	15920	3220	40	34400	30	7	100	1	20	23	1	9	2	20	2.9	156	1	5	1	34	3	120	
10997	.8	27010	60	2	135	3.7	3	3970	.1	2	6	14970	4210	47	38610	41	6	100	1	10	21	1	11	2	29	3.7	143	1	4	2	87	2	150	
10998	.9	30010	39	2	178	3.7	3	6580	.1	2	6	14660	5310	50	41340	47	3	110	1	10	15	1	21	1	38	3.9	142	1	4	1	50	4	190	
10999	.9	30510	52	2	238	4.0	2	2960	.1	2	6	15500	7740	40	33570	27	6	80	1	40	21	1	8	5	54	3.2	173	1	4	1	48	3	245	
11000	1.3	22660	53	2	249	3.5	2	14570	.1	2	6	13170	6950	26	27570	100	6	80	1	50	23	4	36	4	40	3.2	141	2	4	1	55	2	375	
11001	4.3	23990	1	1	378	3.2	1	49510	.1	2	6	12020	5830	30	50480	274	12	140	1	10	22	6	109	1	39	5.1	132	1	4	1	60	39	485	
11002	2.4	22430	37	1	178	3.5	2	10210	.1	2	6	12530	5910	30	28490	55	4	80	1	50	25	6	23	5	33	3.2	151	2	4	1	26	11	540	
11003	2.1	23180	63	2	167	3.1	3	7750	.1	2	6	14930	5770	31	28620	47	6	90	1	70	22	3	16	4	38	3.2	124	2	4	3	84	20	360	
11004	2.7	20000	111	2	234	4.3	3	4030	.1	2	7	13420	8490	13	11660	18	5	80	1	80	38	6	10	9	41	1.8	181	6	3	1	14	16	655	
11005	3.2	21860	11	4	405	3.7	2	54220	.1	3	8	14920	6230	44	53600	311	1	110	1	10	7	1	93	1	43	5.6	101	1	4	1	57	22	295	
11006	8.0	13450	309	1	179	2.5	2	8560	.1	2	8	18160	6700	5	8520	56	20	80	1	120	101	12	32	5	37	2.0	204	5	4	5	125	140	450	
11007	.6	16340	22	1	120	2.3	2	720	.1	3	6	10330	3370	17	18660	49	5	50	5	40	19	1	4	3	20	5.6	87	4	20	5	111	5	105	
11008	.8	29700	5	1	134	2.6	2	920	.1	2	5	13810	2930	56	49920	27	1	30	1	10	9	1	5	1	12	3.9	118	1	4	1	48	2	125	
11009	.8	27380	2	1	131	2.6	3	1430	.1	2	6	14170	3460	51	45520	31	2	40	1	10	17	1	5	1	13	3.9	111	1	3	2	85	9	115	
11010	.7	22480	30	1	175	2.6	2	3440	.1	2	5	13900	3780	37	33170	40	4	40	1	20	21	1												



**MIN-EN LABORATORIES**  
 (DIVISION OF ASSAYERS CORP.)

91-65

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
 CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:  
 705 WEST 15TH STREET  
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 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Assay Certificate

1S-0182-RA1

Company: COPELAND REBAGLAITI & ASSOC.  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-25-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.  
 2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

We hereby certify the following Assay of 30 ROCK samples  
 submitted JUL-22-91 by RICHARD HASLINGER.

Sample number	AU-FIRE g/tonne	AU-FIRE oz/ton
10970	.26	.008
10971	.17	.005
10972	.16	.005

Certified by 

MIN-EN LABORATORIES



AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 90-66  
 SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 1048/9 CLAIM # : SIB 12, 35  
 LOCAL GRID : 8631.49 N / 9928.39 E GLOBAL GRID : 12944.22 N / 17845.18 E  
 LENGTH : 79.24 m INCLINATION : -46.0 degrees ELEVATION : 1019.84 metres  
 OVERBURDEN : 3.05 m CASING : 3.05 metres AZIMUTH : 296.5 degrees  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/19 DATE DRILLED : 1991/07/18 CORE LOCATION: 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 11007-11046

SUMMARY LOG 90-66

From(m)	To(m)	Field Name (Legend)
0.00	4.21	CASING
3.05	23.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a) 5.5 - 7.0 GREEN-BLACK RHYOLITIC FRAGMENTALS AND CHERT (3.4)
23.00	29.30	BLACK CHERT - CHERT BRECCIA (3.3)
29.30	35.00	SULPHIDIC MUDSTONE AND CHERT (3.5)
35.00	49.66	TUFFAFEDUS RHYOLITE (3.9) +/- GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)
49.66	60.00	RHYOLITE FLOWS (AUTOBRECCIATED) (3.8) +/- GREEN-BLACK RHYOLITIC FRAGMENTALS AND CHERT BRECCIAS (3.4)
60.00	76.80	GREEN-BLACK RHYOLITIC FLOWS (3.2) +/- BLACK CHERT AND CHERT BRECCI (3.3)
76.80	79.24	RHYOLITE FLOWS (AUTOBRECCIATED) -SERICITE (3.8a)
79.24		END OF HOLE.

ANALYTICAL HIGHLIGHTS 90-66

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
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No significant results.

From(m)	To(m)	Description
0.00	3.05	CASING
3.05	23.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a) 5.5 - 7.0 GREEN-BLACK RHYOLITIC FRAGMENTALS AND CHERT (3.4)

Lithology

-Grey-green, slightly more green below 15 metres. Variable ash/fragments content with no definite trend. Average of 25 - 30% fragments (siliceous and sericitic, with siliceous dominating) in a siliceous matrix. Slight decrease in silica content, and more sericitic fragments noted from 15.0 to 23.0 metres. Subtle but noticable increase in pyrite below 18.0 metres, this pyrite is syngenetic, part of the matrix ejecta material.  
 Note: Subtle but noticable change in the accessory clastic content and colour index from 20.0 to 23.0 metres (See next unit).

Structure

-Bedding/layering common throughout this interval. Measurements as follows: 4.0m. - 65, 8.0m. - 62, 12.0m. - 60, 15.0m. - 62, 18.0m. - 60, and 23.0m. - 63 degrees. Contact is gradational.

Alteration

-Weak to very weak sericite alteration, very gradual increase downhole, weak silicification, probably the unit is hard due to silica content.

Mineralization

-Syngenetic pyrite, part of ejecta system. <0.25% from 3.05 to 15.0m.; <0.5% from 15.0 to 18m.; 1% pyrite from 18.0 to 21.0m.; 1 to 5% pyrite from 21.0 to 23.0m.

23.00	29.30	BLACK CHERT - CHERT BRECCIA (3.3)
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Lithology

-Green to black, banded to laminated with increasing black colour toward the lower contact. Generally the matrix is dominated by sericite rich ash, but some thinner sections remain more felsic. The blackish chert and volcanic ash are well mixed, and layering is not separate. Above 23.0m. the black material is so thinned out that it is surrounded by greenish-grey ash material.

Structure

-Bedding well developed throughout this unit. No distortion noted. Average for the zone is 63 degrees; very consistent. Lower contact is sharp at 29.3m.

Alteration

-Sericitization (or its more dacitic phase); Weak to moderate silica overprint.

Mineralization

-Pyritic fragments are an integral part of the network. Fragments of blebs of pyrite up to 0.4 cm are common. Overall; Pyrite is between 1 and 2%.

From(m)	To(m)	Description
29.30	35.00	SULPHIDIC MUDSTONE AND CHERT (3.5)
		<p>Lithology</p> <p>-Black, hard, siliceous, very fine grained (silt size) to aphanitic, uniform, homogenous, with rare cross-cutting pyritic bands, graphitic and pyrobitumen partings on broken surfaces.</p> <p>Structure</p> <p>-Semi-massive, bedding not determinable. Lower contact very sharp, some gouge material at contact with rhyolite.</p> <p>Alteration</p> <p>-Silicified, unit fairly hard, resists scratching.</p> <p>Mineralization</p> <p>-Pyritic bands (rare) are epigenetic, there does not appear to be abundant syngenetic pyrite.</p>
35.00	49.66	TUFFACEOUS RHYOLITE (3.9) +/- GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)
		<p>Lithology</p> <p>-Grey, well defined, siliceous, very hard "cherty" rhyolites (true flow) with some autobreccia development between flows. Fairly homogenous unit, flow contacts where present, defined by a less than 4 cm "dirty" foliated band.</p> <p>Structure</p> <p>-Lower contact fairly sharp at 82 degrees to ca. Upper contact is abrupt. Massive flows; no bedding features or structural features to note.</p> <p>Alteration</p> <p>-Silicification</p> <p>Mineralization</p> <p>-Unmineralized; isolated fracture filled with syngenetic pyrite.</p> <p>-Veining common - quartz type, some quartz - carbonate veins also; no direction dominates, veins include some stockwork, hairline networks, and discrete 0.5 to 1.0 cm veins. All veins are barren of sulphide mineralization.</p>
49.66	60.00	RHYOLITE FLOWS (AUTOBRECCIATED) (3.8) +/- GREEN-BLACK RHYOLITIC FRAGMENTALS AND CHERT BRECCIAS (3.4)
60.00	76.80	GREEN-BLACK RHYOLITIC FLOWS (3.2) +/- BLACK CHERT AND CHERT BRECCI (3.3)
		<p>Lithology &lt;49.66&gt; - &lt;76.80&gt;</p> <p>-Medium grey, greenish in part; well developed tuffaceous banded/layered texture; variable ash/fragment content. Fragments both siliceous and more dacitic; matrix is siliceous, then below 68.00 metres, it is somewhat dacitic.</p>

From(m)	To(m)	Description
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This is more an ash dominated sequence, fragments rarely exceed 1.0cm, and constitute less than 25% of the rock. Some sections are ash rich.

#### Structure

-Bedding fairly consistent throughout the unit @ 65-80 degrees to ca. As follows: 55m- 70, 58m- 72, 61m- 75, 64m- 85, 68m- 68, 70m- 75, 72m- 70 degrees.  
-Faulting- not discrete breaks, but fault zones at 64.5 to 69.0m and 76.2 to 76.8m. Upper fault @ 67.0 to 68.0 metres, Lower fault at 76.2 to 76.8 metres; Slips / gouge present at 68.3 to 68.6m, 69.0 to 69.1m, 72.9 to 73.0m, and 73.15 to 73.3m.

#### Alteration

-Weak sericite alteration; weak to moderate silica overprint, very weak carbonate alteration on some surfaces; one carbonate zone from 59.5 to 59.7 metres.

76.80	79.24	RHYOLITE FLOWS (AUTOBRECCIATED) -SERICITE (3.8a)
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#### Lithology

-Grey-green; brecciated fragments dominated by siliceous composition. Matrix is very hard, siliceous, but with very weak sericitic alteration. Very similar to other breccias on neighboring holes.

#### Structure

-Massive unit, breccia fragments unoriented, interflow contacts at 80 degrees to foliation.

#### Alteration

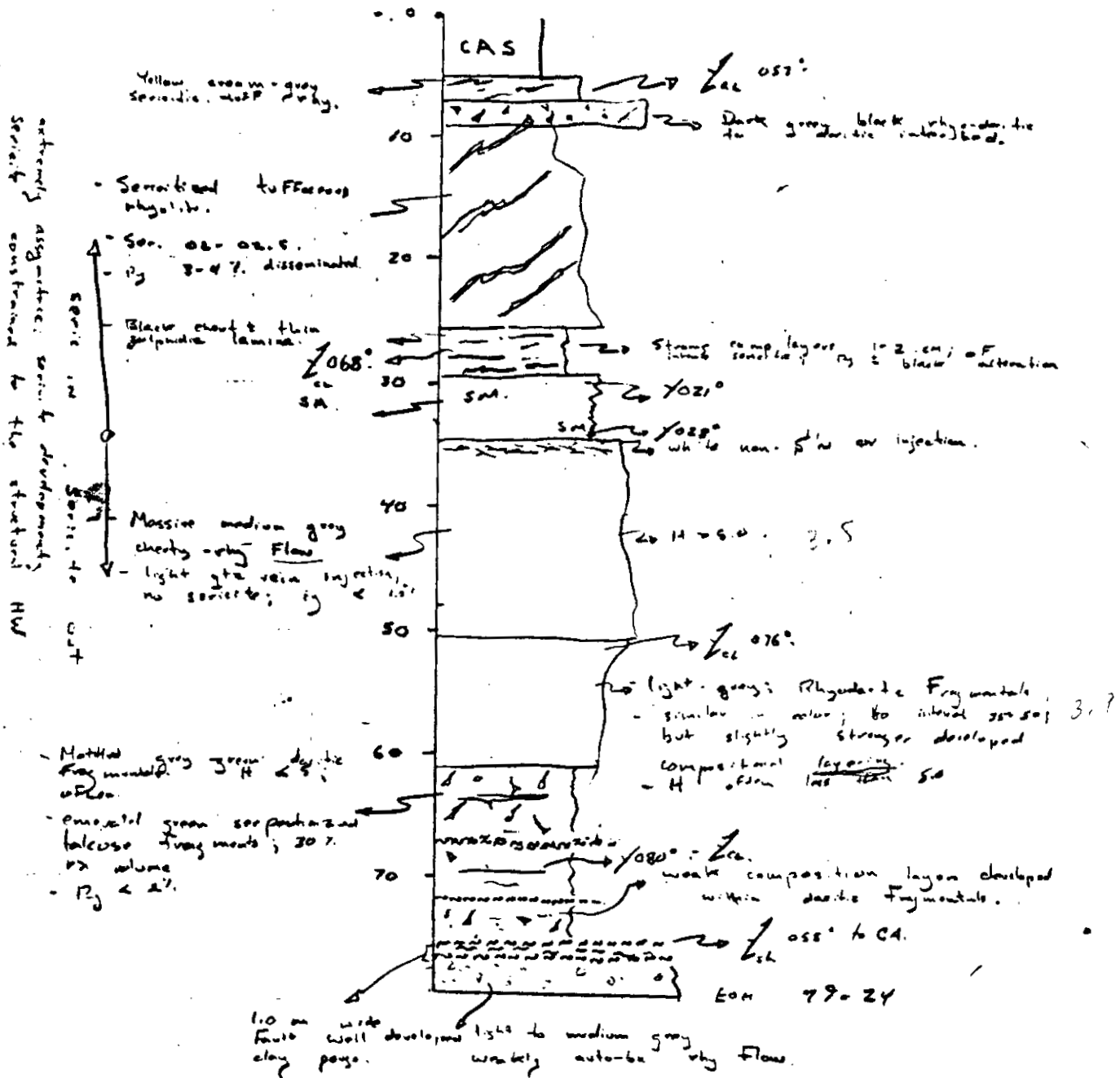
-Weak sericite alteration, silicified or very hard.

#### Mineralization

-Unmineralized

Note: Did not detect the marker unit in this hole as per hole 64 and 65. Similar fragmental like unit with considerably more tuff from 49.66 to 52.0 metres. This grades into more greenish tuff as did the intersection from hole 91-64.

79.24	END OF HOLE.
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HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-66	11007	3.05	5.00	1.95	-	-	5	-	-	0.6	22	1	120	105	6	19	87	10330	720
91-66	11008	5.00	7.00	2.00	-	-	2	-	-	0.8	5	1	134	125	5	9	118	13810	920
91-66	11009	7.00	9.00	2.00	-	-	9	-	-	0.8	2	1	131	115	6	17	111	14170	1430
91-66	11010	9.00	11.00	2.00	-	-	11	-	-	0.7	30	1	175	140	5	21	133	13900	3440
91-66	11011	11.00	13.00	2.00	-	-	2	-	-	0.9	95	2	132	195	6	28	159	15610	3430
91-66	11012	13.00	15.00	2.00	-	-	1	-	-	0.8	140	7	180	240	6	31	158	17030	2020
91-66	11013	15.00	17.00	2.00	-	-	6	-	-	0.7	277	9	184	335	7	36	151	20690	1140
91-66	11014	17.00	19.00	2.00	-	-	3	-	-	0.7	191	5	249	225	6	32	154	14900	1540
91-66	11015	19.00	21.00	2.00	-	-	2	-	-	0.8	395	8	266	300	7	30	143	17010	1970
91-66	11016	21.00	23.00	2.00	-	-	4	-	-	0.6	666	16	178	415	7	33	190	20710	3770
91-66	11017	23.00	25.00	2.00	-	-	2	-	-	0.7	470	11	129	405	7	29	160	16350	610
91-66	11018	25.00	27.00	2.00	-	-	2	-	-	0.6	451	19	91	340	10	38	236	18370	500
91-66	11019	27.00	28.50	1.50	-	-	1	-	-	0.5	565	29	85	480	10	29	233	18500	870
91-66	11020	28.50	29.30	0.80	-	-	1	-	-	0.6	689	50	115	825	13	30	260	18810	520
91-66	11021	29.30	31.00	1.70	0.01	0.001	0	-	-	1.3	221	60	68	1120	35	16	299	17730	4860
91-66	11022	31.00	32.00	1.00	0.02	0.001	0	-	-	1.9	181	51	52	860	38	20	256	16380	3530
91-66	11023	32.00	33.50	1.50	0.01	0.001	0	-	-	1.5	215	54	55	1085	42	21	209	18100	2200
91-66	11024	33.50	35.00	1.50	0.03	0.001	0	-	-	2.0	156	50	79	815	58	22	181	22000	900
91-66	11025	35.00	37.00	2.00	-	-	2	-	-	0.6	62	5	48	230	5	16	80	8330	3270
91-66	11026	37.00	39.00	2.00	-	-	1	-	-	0.5	68	5	52	125	5	21	77	9480	10
91-66	11027	39.00	41.00	2.00	-	-	1	-	-	0.8	96	4	101	155	5	22	96	9830	140
91-66	11028	41.00	43.00	2.00	-	-	1	-	-	0.5	96	4	41	150	6	22	76	10800	10
91-66	11029	43.00	45.00	2.00	-	-	1	-	-	0.5	52	5	76	115	6	22	99	8430	10
91-66	11030	45.00	47.00	2.00	-	-	3	-	-	0.5	74	5	48	120	6	21	90	10730	130
91-66	11031	47.00	49.00	2.00	-	-	1	-	-	0.4	62	5	48	135	4	21	77	7500	700
91-66	11032	49.00	51.00	2.00	-	-	1	-	-	0.6	75	9	105	165	7	32	122	11310	110
91-66	11033	51.00	53.00	2.00	-	-	2	-	-	0.8	76	2	168	165	7	21	135	14550	370
91-66	11034	53.00	55.00	2.00	-	-	1	-	-	0.8	58	2	173	190	7	19	162	15940	650
91-66	11035	55.00	57.00	2.00	-	-	1	-	-	1.0	41	2	178	185	6	28	154	12960	6740
91-66	11036	57.00	59.00	2.00	-	-	1	-	-	0.8	76	6	206	255	6	31	135	16570	3790
91-66	11037	59.00	61.00	2.00	-	-	2	-	-	1.1	36	2	90	185	5	17	123	13840	20560
91-66	11038	61.00	63.00	2.00	-	-	1	-	-	0.7	100	3	107	160	6	27	150	15620	660
91-66	11039	63.00	65.00	2.00	-	-	1	-	-	0.7	32	1	79	120	10	22	141	11500	240
91-66	11040	65.00	67.00	2.00	-	-	2	-	-	0.9	51	1	114	145	12	24	158	13500	270
91-66	11041	67.00	69.00	2.00	-	-	1	-	-	0.9	72	3	114	180	8	33	185	12790	2380
91-66	11042	69.00	71.00	2.00	-	-	1	-	-	1.3	35	1	459	130	5	19	129	11360	5280
91-66	11043	71.00	73.00	2.00	-	-	51	-	-	2.3	129	7	85	405	6	30	136	16560	3940
91-66	11044	73.00	75.00	2.00	-	-	1	-	-	1.4	44	3	117	250	6	29	140	13850	6990
91-66	11045	75.00	77.00	2.00	-	-	5	-	-	1.7	84	8	132	305	6	33	131	13790	10390
91-66	11046	77.00	79.24	2.24	-	-	1	-	-	1.1	63	4	111	175	6	21	93	9630	10020

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ35+36  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB	
10964	1.1	4160	151	1	55	.9	1	9060	.1	2	7	11740	1610	1	5220	54	20	50	14	30	19	17	45	1	16	2.4	97	3	2	10	263	18	335	
10965	.7	14440	85	1	137	2.5	2	9780	.1	2	6	14230	3570	20	17370	57	11	150	2	30	20	5	43	3	19	2.7	149	4	3	5	125	2	275	
10966	.6	9480	156	2	165	2.0	1	980	.1	1	7	11580	3360	7	6990	16	9	100	1	40	34	6	4	7	24	1.5	158	4	2	2	53	1	215	
10967	.6	5870	195	2	153	1.2	1	5740	.1	2	8	20400	2730	2	5710	31	8	290	2	40	36	13	15	5	24	2.1	144	3	2	4	87	3	420	
10968	.3	4840	262	3	106	1.4	1	3260	.1	3	8	33400	2520	1	3100	12	12	110	1	30	56	37	9	4	20	1.1	182	1	2	2	38	2	1700	
10969	.8	3400	122	1	547	.8	1	6640	.1	2	7	9760	1740	1	3200	50	10	190	10	30	25	13	21	1	16	2.3	92	2	2	5	143	4	345	
10970	14.5	3480	293	3	71	.5	2	3710	.1	5	37	19150	1870	2	520	70	27	1600	70	1050	59	75	7	1	24	22.3	99	1	2	6	141		2300	
10971	7.2	3080	127	3	66	.3	1	2230	.2	4	31	12690	1670	1	430	56	29	1900	49	610	37	37	4	1	20	21.0	103	1	1	8	206		650	
10972	4.7	3950	135	3	109	.5	2	5890	.1	4	35	14590	2100	1	2410	89	25	1690	41	390	41	34	14	1	23	24.7	163	2	1	5	122		515	
10973	1.0	12210	36	1	119	1.5	2	10060	.1	1	5	7880	2040	19	20870	72	7	140	4	20	19	4	35	2	31	3.3	97	4	2	4	100		9	160
10974	.6	14160	53	2	138	1.6	2	870	.1	2	5	9320	2450	20	18630	34	10	160	4	30	21	4	4	2	27	2.7	112	4	3	6	162		1	125
10975	.9	10490	86	1	122	1.4	2	12060	.1	2	5	10800	2230	13	14910	74	11	120	2	30	25	7	44	2	24	2.9	136	4	3	4	104		3	165
10976	1.0	11350	88	1	106	1.5	2	18640	.1	2	6	9670	1720	16	21410	136	12	150	4	30	21	6	70	1	18	3.9	103	3	3	6	155		6	145
10977	1.0	13300	104	1	121	1.7	2	17440	.1	2	6	11120	2220	19	21790	120	11	90	2	20	21	7	70	3	27	3.5	88	3	10	4	86		10	150
10978	.9	10790	96	1	89	1.2	2	18490	.1	2	5	11010	1660	15	18280	130	12	270	2	40	21	7	64	2	22	3.9	87	3	3	6	153		4	155
10979	.8	13930	88	1	101	1.6	2	16580	.1	2	6	10210	2100	21	22700	145	18	160	3	10	19	5	61	1	23	3.8	97	2	2	8	203		7	135
10980	1.0	13070	56	1	125	1.8	2	18460	.1	2	5	10300	2340	17	21180	180	15	120	1	20	19	5	64	3	24	3.4	112	3	2	4	101		2	145
10981	.7	14460	58	1	143	1.5	2	8470	.1	2	6	9120	2100	22	22800	109	15	230	2	20	19	3	24	1	24	3.6	94	3	2	9	237		1	110
10982	.8	11310	61	1	78	1.2	2	8050	.1	1	5	8570	1700	16	17280	96	13	250	1	20	21	5	20	2	25	3.2	92	4	3	6	158		2	115
10983	.8	16560	55	1	125	1.9	2	6810	.1	2	6	8630	2750	22	23580	98	15	170	2	20	16	4	19	2	31	3.6	98	3	3	8	223		4	115
10984	.8	16630	45	2	120	1.9	2	7300	.1	2	5	9540	2440	24	24340	86	13	160	1	10	16	4	20	2	27	3.6	83	3	3	6	151		2	135
10985	.9	9090	159	2	192	2.4	1	9640	.1	2	8	20400	4110	3	6560	62	33	110	1	70	45	17	31	7	31	2.0	218	5	2	6	133		6	360
10986	1.0	9430	81	1	108	1.8	3	17220	.1	2	7	12420	2730	11	18920	76	12	180	1	30	28	7	54	5	20	3.3	136	4	3	4	103		18	170
10987	1.0	16310	79	1	119	2.7	2	15100	.1	2	6	12290	2630	22	24220	213	9	170	1	20	25	6	36	3	21	3.7	94	4	4	4	117		2	150
10988	.7	21480	24	7	69	2.4	2	7860	.1	2	5	11400	1540	42	35550	103	9	230	1	10	13	1	15	1	16	3.9	117	1	3	4	125		5	120
10989	.9	18690	28	2	70	2.5	3	800	.1	2	4	9270	1520	33	28170	29	6	190	1	10	15	2	5	1	16	3.3	100	4	3	3	95		2	140
10990	.6	27680	53	3	192	4.1	2	1360	.1	2	6	14990	4130	43	35310	29	8	240	1	10	22	2	6	2	30	3.5	189	1	4	1	59		3	165
10991	.6	26180	50	2	139	3.6	2	1250	.1	2	6	16330	2520	50	39260	35	10	220	1	10	18	1	5	1	24	3.3	137	1	4	2	86		7	210
10992	.7	23370	41	2	134	3.9	2	2190	.1	2	6	13090	3460	37	30480	27	7	120	1	10	26	1	10	3	18	3.1	171	1	2	1	43		2	120
10993	.7	18500	51	3	158	3.3	3	3900	.1	2	7	11480	2900	27	23630	27	6	90	1	10	28	1	15	3	17	2.9	130	2	3	3	76		4	120
10994	.7	22180	60	1	70	3.3	2	1990	.1	2	6	14720	1960	39	34330	25	5	70	1	10	26	2	8	2	15	3.1	143	1	4	1	56		2	210
10995	.8	22700	67	1	77	3.2	2	1240	.1	2	6	14230	2260	39	35550	30	5	110	1	10	24	1	5	2	15	3.1	143	1	4	1	52		1	135
10996	.7	23350	97	1	136	3.5	2	2260	.1	2	6	15920	3220	40	34400	30	7	100	1	20	23	1	9	2	20	2.9	156	1	5	1	34		3	120
10997	.8	27010	60	2	135	3.7	3	3970	.1	2	6	14970	4210	47	38610	41	6	100	1	10	21	1	11	2	29	3.7	143	1	4	2	87		2	150
10998	.9	30010	39	2	178	3.7	3	6580	.1	2	6	14660	5310	50	41340	47	3	110	1	10	15	1	21	1	38	3.9	142	1	4	1	50		4	190
10999	.9	30510	52	2	238	4.0	2	2960	.1	2	6	15500	7740	40	33570	27	6	80	1	40	21	1	8	5	54	3.2	173	1	4	1	48		3	245
11000	1.3	22660	53	2	249	3.5	2	14570	.1	2	6	13170	6950	26	27570	100	6	80	1	50	23	4	36	4	40	3.2	141	2	4	1	55		2	375
11001	4.3	23990	1	1	378	3.2	1	49510	.1	2	6	12020	5830	30	50480	274	12	140	1	10	22	6	109	1	39	5.1	132	1	4	1	60		39	485
11002	2.4	22430	37	1	178	3.5	2	10210	.1	2	6	12530	5910	30	28490	55	4	80	1	50	25	6	23	5	33	3.2	151	2	4	1	26		11	540
11003	2.1	23180	63	2	167	3.1	3	7750	.1	2	6	14930	5770	31	28620	47	6	90	1	70	22	3	16	4	38	3.2	124	2	4	3	84		20	360
11004	2.7	20000	111	2	234	4.3	3	4030	.1	2	7	13420	8490	13	11660	18	5	80	1	80	38	6	10	9	41	1.8	181	6	3	1	14		16	655
11005	3.2	21860	11	4	405	3.7	2	54220	.1	3	8	14920	6230	44	53600	311	1	110	1	10	7	1	93	1	43	5.6	101	1	4	1	57		22	295
11006	8.0	13450	309	1	179	2.5	2	8560	.1	2	8	18160	6700	5	8520	56	20	80	1	120	101	12	32	5	37	2.0	204	5	4	5	125		140	450
11007	.6	16340	22	1	120	2.3	2	720	.1	3	6	10330	3370	17	18660	49	5	50	5	40	19	1	4	3	20	5.6	87	4	20	5	111		5	105
11008	.8	29700	5	1	134	2.6	2	920	.1	2	5	13810	2930	56	49920	27	1	30	1	10	9	1	5	1	12	3.9	118	1	4	1	48		2	125
11009	.8	27380	2	1	131	2.6	3	1430	.1	2	6	14170	3460	51	45520	31	2	40	1	10	17	1	5	1	13	3.9	111	1	3	2	85		9	115
11010	.7																																	

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M.REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ37+38  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
11020	.6	7070	689	7	115	1.1	1	520	.1	4	13	18810	2760	5	4630	31	45	160	96	130	30	50	3	2	14	3.6	260	3	2	2	55	1	825
11021	1.3	5970	221	3	68	.7	2	4860	1.4	5	35	17730	1220	9	7200	127	32	680	57	410	16	60	9	2	22	47.9	299	5	2	9	187		1120
11022	1.9	4950	181	2	52	.4	2	3530	2.2	4	38	16380	1090	6	4660	87	33	1540	76	1090	20	51	7	1	22	62.8	256	4	1	6	135		860
11023	1.5	4500	215	2	55	.5	2	2200	2.1	5	42	18100	1120	5	3810	89	39	1760	69	670	21	54	6	1	23	59.1	209	2	2	9	207		1085
11024	2.0	4290	156	2	79	.5	1	900	.1	7	58	22000	1720	3	1450	104	30	2280	49	330	22	50	4	1	36	39.0	181	1	2	6	128		815
11025	.6	6610	62	4	48	.7	1	3270	.1	1	5	8330	890	10	9470	29	6	350	4	30	16	5	17	1	19	2.0	80	4	2	6	142	2	230
11026	.5	8710	68	3	52	.8	2	10	.1	2	5	9480	800	13	12450	27	7	340	4	30	21	5	2	1	12	2.3	77	5	3	7	183	1	125
11027	.8	10170	96	4	101	1.8	2	140	.1	1	5	9830	1710	13	12420	21	10	220	3	40	22	4	4	2	14	2.3	96	5	2	5	124	1	155
11028	.5	8700	96	2	41	1.0	1	10	.1	2	6	10800	690	14	13220	30	5	340	4	30	22	4	3	1	14	2.1	76	5	4	6	163	1	115
11029	.5	8130	52	2	76	1.5	2	10	.1	1	6	8430	1370	10	10210	32	8	350	1	40	22	5	3	2	14	1.6	99	5	3	5	124	1	150
11030	.5	8870	74	2	48	1.2	1	130	.1	2	6	10730	930	13	13200	28	12	320	1	30	21	5	4	1	13	2.4	90	5	4	9	222	3	120
11031	.4	5800	62	1	48	.8	1	700	.1	1	4	7500	670	7	8310	21	9	360	2	30	21	5	8	1	12	1.7	77	5	2	6	146	1	135
11032	.6	9270	75	2	105	1.5	2	110	.1	2	7	11310	1990	10	9730	49	14	570	3	40	32	9	4	3	18	2.0	122	5	3	12	301	1	165
11033	.8	21900	76	2	168	2.9	3	370	.1	2	7	14550	2530	38	31060	29	8	150	1	10	21	2	4	1	20	3.4	135	2	3	3	89	2	165
11034	.8	26660	58	3	173	4.4	3	650	.1	2	7	15940	3150	51	38590	46	7	120	1	10	19	2	5	1	27	3.3	162	1	4	2	83	1	190
11035	1.0	21800	41	3	178	4.0	3	6740	.1	2	6	12960	3970	32	30700	85	5	200	1	40	28	2	22	3	31	3.3	154	3	3	2	63	1	185
11036	.8	16260	76	2	206	3.6	2	3790	.1	2	6	16570	2490	29	24550	44	9	110	1	50	31	6	14	3	15	2.9	135	3	3	3	79	1	255
11037	1.1	17250	36	1	90	3.0	2	20560	.1	2	5	13840	1870	30	38750	291	3	100	1	10	17	2	57	1	12	4.5	123	1	3	1	47	2	185
11038	.7	17370	100	2	107	2.9	1	660	.1	2	6	15620	2290	30	24720	17	8	60	2	10	27	3	4	2	15	2.9	150	2	3	3	88	1	160
11039	.7	22370	32	2	79	2.7	2	240	.1	2	10	11500	2030	42	32200	14	2	80	4	10	22	1	3	1	19	3.8	141	1	4	3	92	1	120
11040	.9	24540	51	2	114	3.4	2	270	.1	2	12	13500	2180	46	34920	15	6	60	3	20	24	1	4	1	18	4.0	158	1	4	3	106	2	145
11041	.9	19260	72	2	114	3.5	3	2380	.1	2	8	12790	3980	26	21860	20	5	70	6	40	33	3	9	4	19	3.3	185	4	3	2	44	1	180
11042	1.3	19300	35	1	459	2.9	2	5280	.1	2	5	11360	2840	32	29800	27	3	60	1	10	19	1	19	2	18	3.2	129	2	3	3	88	1	130
11043	2.3	17200	129	1	85	2.9	2	3940	.1	2	6	16560	2890	28	25000	25	3	50	1	30	30	7	16	3	16	2.8	136	3	3	2	48	51	405
11044	1.4	18020	44	2	117	3.1	2	6990	.1	2	6	13850	4220	23	21770	33	5	70	1	30	29	3	26	4	17	2.7	140	4	3	3	86	1	250
11045	1.7	11010	84	1	132	2.7	2	10390	.1	2	6	13790	3850	9	12540	80	3	50	1	50	33	8	40	4	15	2.2	131	5	3	2	45	5	305
11046	1.1	4790	63	1	111	1.9	1	10020	.1	1	6	9630	2720	2	6450	100	22	30	1	50	21	4	57	3	15	1.7	93	3	3	5	137	1	175
11047	1.2	9290	358	9	154	2.7	2	2100	3.0	16	99	60130	4660	1	1040	373	25	1770	51	370	29	83	5	1	43	58.0	582	1	1	4	81		2335
11048	2.1	7690	566	7	79	1.3	2	1440	9.4	9	82	34430	3680	1	580	87	20	1620	50	590	12	90	10	1	31	55.9	769	1	2	2	46		2250
11049	2.0	11030	772	9	253	2.8	2	2350	6.5	13	100	50920	5480	1	890	150	19	1630	50	590	16	112	6	1	43	63.5	768	1	1	2	37		2800
11050	1.8	8650	658	7	246	2.6	2	1310	10.9	8	82	31360	4340	1	680	97	20	2760	61	290	23	79	4	1	47	56.4	840	1	2	3	51		1950
11051	2.1	10410	939	8	171	2.6	2	1550	13.2	10	92	35590	5160	2	780	106	30	1320	70	380	20	95	4	1	33	68.9	1026	1	1	3	47		2200
11052	2.0	8620	750	7	134	2.1	2	1470	13.3	8	82	30940	4350	2	670	91	28	1260	78	340	14	83	4	1	27	56.8	1038	1	1	2	32		1955
11053	1.1	8800	930	7	141	2.1	2	1720	7.4	8	74	26270	4410	1	650	81	42	1210	110	450	11	75	5	1	34	71.9	807	1	1	3	49		1670
11054	1.2	11230	1046	9	156	2.4	2	3400	7.7	11	90	36150	5560	1	850	132	60	2460	136	880	21	99	7	1	37	84.1	962	1	1	2	20		1835
11055	.9	9170	577	8	137	2.5	2	3060	8.9	12	95	38910	4730	1	720	157	70	1290	137	730	11	103	6	1	36	74.1	1037	1	1	2	29		2000
11056	1.2	8440	434	7	140	2.2	2	2620	11.2	11	88	34000	4240	1	680	123	64	1110	139	710	17	93	6	1	33	67.3	1121	1	2	2	24		1845
11057	.8	6790	209	5	201	2.2	2	1610	4.4	7	45	25760	3610	2	1550	157	35	1520	51	410	29	52	5	5	36	23.8	533	1	1	3	56		1630
11058	.6	1590	347	1	27	.5	1	6690	.1	3	8	22760	800	1	260	86	8	490	1	120	21	10	13	1	23	.9	87	1	1	5	132	4	375
11059	.7	2730	65	1	60	1.1	1	7510	.1	2	7	12510	1420	1	1820	138	16	420	2	90	23	8	14	1	25	1.1	115	2	3	9	231	1	165
11060	.9	4050	21	1	47	1.6	2	10230	.1	1	6	10190	1590	2	5110	291	12	130	2	20	22	4	19	2	19	1.7	121	4	3	4	93	1	125
11061	.7	3570	17	1	59	1.8	1	7020	.1	1	5	8480	1700	2	4340	166	4	120	1	20	21	2	16	1	17	1.2	121	3	2	4	88	3	120
11062	.7	2730	22	1	43	1.6	2	8530	.1	1	5	6460	1570	1	2590	147	1	150	3	10	22	2	15	1	20	1.3	118	3	2	4	99	1	115
11063	.6	7900	20	8	106	2.7	1	10100	.1	2	8	11430	4470	1	4590	231	2	120	1	20	34	2	26	4	47	2.3	182	3	2	4	94	1	270
11064	.6	7170	13	6	81	2.6	1	11820	.1	1	7	10110	3470	1	3080	209	2	100	1	10	23	2	23	4	57	2.1	132	2	3	3	72	1	325
11065	.6	10960	17	4	121	3.4	1	8800	.1	1	8	12740	5080	2	4130	195	2	110	1	10	30	2	17	5	65	1.3	199	3	3	3	64	2	220
11066	.5	3550	189	3	48	.7	3	480	.2	4	19	23340	1700	4	940	76	33	150	26	60	18												





**MIN-EN LABORATORIES**  
 (DIVISION OF ASSAYERS CORP.)

91-66

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
 CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER, B.C. CANADA  
 705 WEST 15TH STREET  
 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
 TELEPHONE (604) 980-5814 OR (604) 988-4524  
 FAX (604) 980-9621

**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Assay Certificate

1S-0182-RA1

Company: COPELAND REBAGLAITI & ASSOC.  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-25-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.  
 2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

We hereby certify the following Assay of 30 ROCK samples  
 submitted JUL-22-91 by RICHARD HASLINGER.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton
11021	.01	.001
11022	.02	.001
11023	.01	.001
11024	.03	.001

Certified by \_\_\_\_\_

MIN-EN LABORATORIES

COPELAND REBAGLIATI & ASSOCIATES LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-67  
 SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 1048/9 CLAIM # : SIB 12, 35  
 LOCAL GRID : 8820.26 N / 9702.54 E GLOBAL GRID : 13214.45 N / 17728.47 E  
 LENGTH : 16.80 m INCLINATION : -52.0 degrees ELEVATION : 977.18 metres  
 OVERBURDEN : 3.05 m CASING : 3.05 metres AZIMUTH : 294.0 degrees  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/20 DATE DRILLED : 1991/07/19 CORE LOCATION: 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 11066-11072

SUMMARY LOG 91-67

From(m)	To(m)	Field Name (Legend)
0.00	3.05	CASING
3.05	4.50	SULPHIDIC MUDSTONE AND CHERT (3.5)
4.50	6.50	BLACK CHERT - CHERT BRECCIA (3.3)
6.50	12.70	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
12.70	16.80	CHERTY RHYOLITIC FLOW (3.7)

16.80 END OF HOLE.

ANALYTICAL HIGHLIGHTS 91-67

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
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No significant results.

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AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-67

SIB PROPERTY DIAMOND DRILL LOG

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NTS MAP # : 1048/9 CLAIM # : SIB 12, 35  
 LOCAL GRID : 8820.26 N / 9702.54 E GLOBAL GRID : 13214.45 N / 17728.47 E  
 LENGTH : 16.80 m INCLINATION : -52.0 degrees ELEVATION : 977.18 metres  
 OVERBURDEN : 3.05 m CASING : 3.05 metres AZIMUTH : 294.0 degrees  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/20 DATE DRILLED : 1991/07/19 CORE LOCATION: 86+30 N, 96+70 E  
Y/M/D Y/M/D SAMPLE NO. SERIES : 11066-11072

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SUMMARY LOG 91-67

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From(m)	To(m)	Field Name (Legend)
0.00	3.05	CASING
3.05	4.50	SULPHIDIC MUDSTONE AND CHERT (3.5)
4.50	6.50	BLACK CHERT - CHERT BRECCIA (3.3)
6.50	12.70	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
12.70	16.80	CHERTY RHYOLITIC FLOW (3.7)

16.80 END OF HOLE.

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ANALYTICAL HIGHLIGHTS 91-67

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From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
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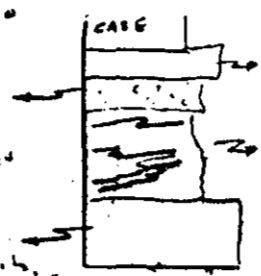
No significant results.

From(m)	To(m)	Description-----
0.00	3.05	CASING
3.05	4.50	SULPHIDIC MUDSTONE AND CHERT (3.5)
		<p>Lithology</p> <p>-Black, blocky, homogeneous, core broken throughout this interval, with only 0.5 metres of recovery over 1.5m. Sharp lower contact @ 80 degrees to c/a.</p> <p>Alteration, Mineralization</p> <p>-Silicified, mineralized in lower 2cm, syngenetic pyrite.</p>
4.50	6.50	BLACK CHERT - CHERT BRECCIA (3.3)
6.50	12.70	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
		<p>Lithology</p> <p>-Greyish green, hard, weakly foliated and massive sections</p> <p>Structure</p> <p>-bedding and/or foliation at 47 degrees to c/a at 12 metres.</p> <p>Alteration</p> <p>-Very weak sericitic alteration, silicified</p> <p>Mineralized</p> <p>-Unmineralized.</p>
12.70	16.80	CHERTY RHYOLITIC FLOW (3.7)
		<p>Lithology</p> <p>-Grey, hard, massive, cherty looking, homogeneous, silicified. Quartz veining common, with hairline to 3mm veinlets common, rock has 2 - 3% vein material. Isolated bull quartz veins have green chlorite and pyrite at footwall contacts.</p> <p>Structure</p> <p>-Weakly fractures</p> <p>Mineralization</p> <p>-Rock is unmineralized.</p>
16.80		END OF HOLE.

DDH 91-67

Grey ch-Rby, ± HBx.

Massive grey chert, weak oxidation effects, light fractures. (90-30 cm scale)



weakly siltst interbeds. 7-ub  
 Light yellow grey tuffaceous arg-cto. Distinct comp. layers.

EOH 16.89.

STRUCTURE

- no major faults, this borehole view no major injection.

4.0 / 050°; 13 ca.

8.0 / 050°

12.2 / 65°

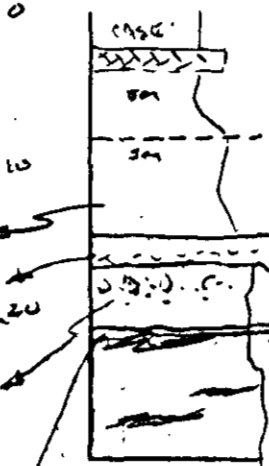
15.0 / 042, 15.0 fract. 30°

16.0 / 042

DDH 91-68

- well defined sulphide, most AET.  
 - weak vein injection

Fluo top br's. I part of below. this pyroclastic input.



Black bottom core, possible AET.

AET bed.

Massive dark grey chert weakly HBx

Yellow green siliceous tuffaceous arg.

EOH 27.9

STRUCTURE

- no major faults  
 this borehole.  
 - no major vein injection.

7.2 / 010°

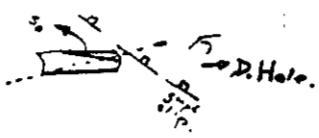
8.2 / 05°

12.2 / 014°

23.5 / 070°

24.5 / 055°

26.9 / 016°



weakly developed light grey chert bed, intravolcanic.

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-67	11066	3.05	4.50	1.45	0.03	0.001	0	-	-	0.5	189	25	48	765	19	18	285	23340	480
91-67	11067	4.50	6.10	1.60	-	-	109	-	-	0.2	196	9	89	560	12	19	124	14690	1710
91-67	11068	6.10	8.00	1.90	-	-	2	-	-	0.3	32	3	106	175	7	26	142	12500	4640
91-67	11069	8.00	10.00	2.00	-	-	4	-	-	0.2	20	1	121	135	6	26	139	9620	8470
91-67	11070	10.00	12.00	2.00	-	-	2	-	-	0.4	69	1	302	125	7	27	98	11930	6850
91-67	11071	12.00	14.00	2.00	-	-	3	-	-	1.1	22	3	133	-	95	23	130	11380	7710
91-67	11072	14.00	16.80	2.80	-	-	5	-	-	0.2	53	2	53	165	5	16	73	7930	2390

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

MIN-EN LABS — ICP REPORT  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ37+38  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
11020	.6	7070	689	7	115	1.1	1	520	.1	4	13	18810	2760	5	4630	31	45	160	96	130	30	50	3	2	14	3.6	260	3	2	2	55	1	825
11021	1.3	5970	221	3	68	.7	2	4860	1.4	5	35	17730	1220	9	7200	127	32	680	57	410	16	60	9	2	22	47.9	299	5	2	9	187	1	1120
11022	1.9	4950	181	2	52	.4	2	3530	2.2	4	38	16380	1090	6	4660	87	33	1540	76	1090	20	51	7	1	22	62.8	256	4	1	6	135	1	860
11023	1.5	4500	215	2	55	.5	2	2200	2.1	5	42	18100	1120	5	3810	89	39	1760	69	670	21	54	6	1	23	59.1	209	2	2	9	207	1	1085
11024	2.0	4290	156	2	79	.5	1	900	.1	7	58	22000	1720	3	1450	104	30	2280	49	330	22	50	4	1	36	39.0	181	1	2	6	128	1	815
11025	.6	6610	62	4	48	.7	1	3270	.1	1	5	8330	890	10	9470	29	6	350	4	30	16	5	17	1	19	2.0	80	4	2	6	142	2	230
11026	.5	8710	68	3	52	.8	2	10	.1	2	5	9480	800	13	12450	27	7	340	4	30	21	5	2	1	12	2.3	77	5	3	7	183	1	125
11027	.8	10170	96	4	101	1.8	2	140	.1	1	5	9830	1710	13	12420	21	10	220	3	40	22	4	4	2	14	2.3	96	5	2	5	124	1	155
11028	.5	8700	96	2	41	1.0	1	10	.1	2	6	10800	690	14	13220	30	5	340	4	30	22	4	3	1	14	2.1	76	5	4	6	163	1	150
11029	.5	8130	52	2	76	1.5	2	10	.1	1	6	8430	1370	10	10210	32	8	350	1	40	22	5	3	2	14	1.6	99	5	3	5	124	1	115
11030	.5	8870	74	2	48	1.2	1	130	.1	2	6	10730	930	13	13200	28	12	320	1	30	21	5	4	1	13	2.4	90	5	4	9	222	3	120
11031	.4	5800	62	1	48	.8	1	700	.1	1	4	7500	670	7	8310	21	9	360	2	30	21	5	8	1	12	1.7	77	5	2	6	146	1	135
11032	.6	9270	75	2	105	1.5	2	110	.1	2	7	11310	1990	10	9730	49	14	570	3	40	32	9	4	3	18	2.0	122	5	3	12	301	1	165
11033	.8	21900	76	2	168	2.9	3	370	.1	2	7	14550	2530	38	31060	29	8	150	1	10	21	2	4	1	20	3.4	135	2	3	3	89	2	165
11034	.8	26660	58	3	173	4.4	3	650	.1	2	7	15940	3150	51	38590	46	7	120	1	10	19	2	5	1	27	3.3	162	1	4	2	83	1	190
11035	1.0	21800	41	3	178	4.0	3	6740	.1	2	6	12960	3970	32	30700	85	5	200	1	40	28	2	22	3	31	3.3	154	3	3	2	63	1	185
11036	.8	16260	76	2	206	3.6	2	3790	.1	2	6	16570	2490	29	24550	44	9	110	1	50	31	6	14	3	15	2.9	135	3	3	3	79	1	255
11037	1.1	17250	36	1	90	3.0	2	20560	.1	2	5	13840	1870	30	38750	291	3	100	1	10	17	2	57	1	12	4.5	123	1	3	1	47	2	185
11038	.7	17370	100	2	107	2.9	1	660	.1	2	6	15620	2290	30	24720	17	8	60	2	10	27	3	4	2	15	2.9	150	2	3	3	88	1	160
11039	.7	22370	32	2	79	2.7	2	240	.1	2	10	11500	2030	42	32200	14	2	80	4	10	22	1	3	1	19	3.8	141	1	4	3	92	1	120
11040	.9	24540	51	2	114	3.4	2	270	.1	2	12	13500	2180	46	34920	15	6	60	3	20	24	1	4	1	18	4.0	158	1	4	3	106	2	145
11041	.9	19260	72	2	114	3.5	3	2380	.1	2	8	12790	3980	26	21860	20	5	70	6	40	33	3	9	4	19	3.3	185	4	3	2	44	1	180
11042	1.3	19300	35	1	459	2.9	2	5280	.1	2	5	11360	2840	32	29800	27	3	60	1	10	19	1	19	2	18	3.2	129	2	3	3	88	1	130
11043	2.3	17200	129	1	85	2.9	2	3940	.1	2	6	16560	2890	28	25000	25	3	50	1	30	30	7	16	3	16	2.8	136	3	3	2	48	51	405
11044	1.4	18020	44	2	117	3.1	2	6990	.1	2	6	13850	4220	23	21770	33	5	70	1	30	29	3	26	4	17	2.7	140	4	3	3	86	1	250
11045	1.7	11010	84	1	132	2.7	2	10390	.1	2	6	13790	3850	9	12540	80	3	50	1	50	33	8	40	4	15	2.2	131	5	3	2	45	5	305
11046	1.1	4790	63	1	111	1.9	1	10020	.1	1	6	9630	2720	2	6450	100	22	30	1	50	21	4	57	3	15	1.7	93	3	3	5	137	1	175
11047	1.2	9290	358	9	154	2.7	2	2100	3.0	16	99	60130	4660	1	1040	373	25	1770	51	370	29	83	5	1	43	58.0	582	1	1	4	81	2	2335
11048	2.1	7690	566	7	79	1.3	2	1440	9.4	9	82	34430	3680	1	580	87	20	1620	50	590	12	90	10	1	31	55.9	769	1	2	2	46	2	2250
11049	2.0	11030	772	9	253	2.8	2	2350	6.5	13	100	50920	5480	1	890	150	19	1630	50	590	16	112	6	1	43	63.5	768	1	1	2	37	2	2800
11050	1.8	8650	658	7	246	2.6	2	1310	10.9	8	82	31360	4340	1	680	97	20	2760	61	290	23	79	4	1	47	56.4	840	1	2	3	51	1	1950
11051	2.1	10410	939	8	171	2.6	2	1550	13.2	10	92	35590	5160	2	780	106	30	1320	70	380	20	95	4	1	33	68.9	1026	1	1	3	47	2	2200
11052	2.0	8620	750	7	134	2.1	2	1470	13.3	8	82	30940	4350	2	670	91	28	1260	78	340	14	83	4	1	27	56.8	1038	1	1	2	32	1	1955
11053	1.1	8800	930	7	141	2.1	2	1720	7.4	8	74	26270	4410	1	650	81	42	1210	110	450	11	75	5	1	34	71.9	807	1	1	3	49	1	1670
11054	1.2	11230	1046	9	156	2.4	2	3400	7.7	11	90	36150	5560	1	850	132	60	2460	136	880	21	99	7	1	37	84.1	962	1	1	2	20	1	1835
11055	.9	9170	577	8	137	2.5	2	3060	8.9	12	95	38910	4730	1	720	157	70	1290	137	730	11	103	6	1	36	74.1	1037	1	1	2	29	1	2000
11056	1.2	8440	434	7	140	2.2	2	2620	11.2	11	88	34000	4240	1	680	123	64	1110	139	710	17	93	6	1	33	67.3	1121	1	2	2	24	1	1845
11057	.8	6790	209	5	201	2.2	2	1610	4.4	7	45	25760	3610	2	1550	157	35	1520	51	410	29	52	5	5	36	23.8	533	1	1	3	56	1	1630
11058	.6	1590	347	1	27	.5	1	6690	.1	3	8	22760	800	1	260	86	8	490	1	120	21	10	13	1	23	.9	87	1	1	5	132	4	375
11059	.7	2730	65	1	60	1.1	1	7510	.1	2	7	12510	1420	1	1820	138	16	420	2	90	23	8	14	1	25	1.1	115	2	3	9	231	1	165
11060	.9	4050	21	1	47	1.6	2	10230	.1	1	6	10190	1590	2	5110	291	12	130	2	20	22	4	19	2	19	1.7	121	4	3	4	93	1	125
11061	.7	3570	17	1	59	1.8	1	7020	.1	1	5	8480	1700	2	4340	166	4	120	1	20	21	2	16	1	17	1.2	121	3	2	4	88	3	120
11062	.7	2730	22	1	43	1.6	2	8530	.1	1	5	6460	1570	1	2590	147	1	150	3	10	22	2	15	1	20	1.3	118	3	2	4	99	1	115
11063	.6	7900	20	8	106	2.7	1	10100	.1	2	8	11430	4470	1	4590	231	2	120	1	20	34	2	26	4	47	2.3	182	3	2	4	94	1	270
11064	.6	7170	13	6	81	2.6	1	11820	.1	1	7	10110	3470	1	3080	209	2	100	1	10	23	2	23	4	57	2.1	132	2	3	3	72	1	325
11065	.6	10960	17	4	121	3.4	1	8800	.1	1	8	12740	5080	2	4130	195	2	110	1	10	30	2	17	5	65	1.3	199	3	3	3	64	2	220
11066	.5	3550	189	3	48	.7	3	480	.2	4	19	23340	1700	4	940	76	33	150															



**MINERAL  
• ENVIRONMENTS  
LABORATORIES**  
(DIVISION OF ASSAYERS CORP.)

91-67

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

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705 WEST 15TH STREET  
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**SMITHERS LAB.:**

3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

Assay Certificate

1S-0182-RA2

Company: COPELAND REBAGLAITI & ASSOC.  
Project: 9101  
Attn: MARK REBAGLIATI

Date: JUL-25-91  
Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.  
2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

*He hereby certify* the following Assay of 2 ROCK samples  
submitted JUL-22-91 by RICHARD HASLINGER.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton
11065	.03	.001

Certified by

MIN-EN LABORATORIES



AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-68  
 SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 104B/9 CLAIM # : SIB 12,35  
 LOCAL GRID : 8820.25 N / 9702.91 E GLOBAL GRID : 13214.27 N / 17728.79 E  
 LENGTH : 29.90 m INCLINATION : -90.0 degrees ELEVATION : 976.98 metres  
 OVERBURDEN : 1.50 m CASING : 1.50 metres AZIMUTH : VERTICAL  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/20 DATE DRILLED : 1991/07/20 CORE LOCATION: 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 11047-11065  
 11073

SUMMARY LOG 91-68

From(m)	To(m)	Field Name (Legend)
0.00	1.50	CASING
1.50	15.00	SULPHIDIC MUDSTONE AND CHERT (3.5)
15.00	17.00	BLACK CHERT - CHERT BRECCIA (3.3)
17.00	29.90	TUFFACEOUS RHYOLITE (3.9)
29.90		END OF HOLE.

ANALYTICAL HIGHLIGHTS 91-68

From(m)	To(m)	Length(m)	Au g/t	Au Oz/ton	Ag g/t	Ag Oz/ton	% Pb	% Zn
12.00	13.00	1.00	0.35	0.010	1.2	0.04		

From(m) To(m) -----Description-----

0.00 1.50 CASING  
 1.50 15.00 SULPHIDIC MUDSTONE AND CHERT (3.5)

Lithology <1.5>-<16.0>

-Black, hard, laminae dominated by pyritic beds (sulphidic member). These laminae often deformed or distorted, and tops yield a younging up hole.

Structure

-Lower contact sharp, bedding is from 0 to 10 degrees between 1.5 and 4.0 metres. From 11.0 to 16.0m the bedding is transposed with an average dip of 20 - 30 degrees to c/a. Lost core over the interval 1.5 - 17.0 metres. Most core loss in the mudstone.

Alteration

-Silicified.

Mineralization

-Pyrite: 1 - 2% syngenetic pyrite over the mudstone interval; <0.25% pyrite epigenetic from 13.0 - 16.0 metres. Stibnite and/or arsenopyrite noted from 13.0 - 14.0m occurs as small isolated pygmatic veinlets in the sulphidic mudstone. Missing the development of anastomosing textures common in holes 91-56 and 90-30.

15.00 17.00 BLACK CHERT - CHERT BRECCIA (3.3)  
 17.00 29.90 TUFFACEOUS RHYOLITE (3.9)

Lithology <16.0>-<22.6>

-Grey, siliceous, very hard, isolated breccia sections, but dominated by grey - cherty looking flow rock; interbeds marked by chloritic/sericitic material. Fractures and veins noted from 16.0 - 18.3m.

Structure

-Semi-massive, developed foliations due to weak shearing, shear zone development from 24.0 - 28.4m. Bedding not reliable for this unit.

Alteration

-Silicified, weak sericitic alteration in the brecciated zones. Quartz veining from 16.0 - 18.3m. Preferred orientation of quartz veins from 55 - 60 degrees, but 2 larger veins are at complimentary angles to c/a.

Mineralization

-Mineralized, pyrite - arsenopyrite veinlets @ 16.2m, 16.4m, 16.7m. The massive pyrite veins have 2 - 3% embedded arsenopyrite. These stringer type veins are syngenetic fracture related. See assay #11058, 11073.

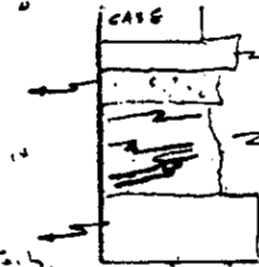


DOH 91-67, 67.

DOH 91-67

Grey cherty; ± HBx.

Massive grey chert, weak oxidation off-chert, light fractures. (90-30 correlates)



weakly fr. interval no tools

light yellow grey tuffaceous siltstone. Distinct comp. layers.

EDH 16. 89.

STRUCTURE

- no major faults, this borehole void no injection

4.0 / 050°; P<sub>3</sub> kmella no ca.

8.0 / 050°

12.0 / 65°

15.0 / 042, void fract. 90°

16.0 / 042

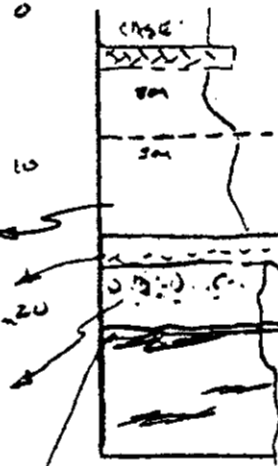
DOH 91-68

- well defined sulfidic. mass - no AET.

weak with migration

Flow top bed. I partial bituminous pyroclastic input

weakly developed light grey mud band, intercalated.



Blocky bottom core, possible AET.

AET bed.

Massive dark grey chert weakly HBx

Yellow green siltstone tuffaceous ext.

EDH 29.9.

STRUCTURE

- no major faults this borehole. - no major void injection.

12.0 / 010°

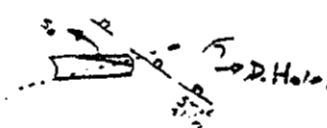
32.0 / 05°

42.0 / 014°

73.5 / 070°

8.19.5 / 05°

26.9 / 016°



HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91-68	11047	3.05	6.10	3.05	0.01	0.001	-	-	-	1.2	358	83	154	2335	99	29	582	60130	2100
91-68	11048	6.10	7.00	0.90	0.01	0.001	-	-	-	2.1	566	90	79	2250	82	12	769	34430	1440
91-68	11049	7.00	8.00	1.00	0.02	0.001	-	-	-	2.0	772	112	253	2800	100	16	768	50920	2350
91-68	11050	8.00	9.00	1.00	0.18	0.005	-	-	-	1.8	658	79	246	1950	82	23	840	31360	1310
91-68	11051	9.00	10.00	1.00	0.22	0.006	-	-	-	2.1	939	95	171	2200	92	20	1026	35590	1550
91-68	11052	10.00	11.00	1.00	0.08	0.002	-	-	-	2.0	750	83	134	1955	82	14	1038	30940	1470
91-68	11053	11.00	12.00	1.00	0.18	0.005	-	-	-	1.1	930	75	141	1670	74	11	807	26270	1720
91-68	11054	12.00	13.00	1.00	0.35	0.010	-	-	-	1.2	1046	99	156	1835	90	21	962	36150	3400
91-68	11055	13.00	14.00	1.00	0.29	0.008	-	-	-	0.9	577	103	137	2000	95	11	1037	38910	3060
91-68	11056	14.00	15.00	1.00	0.05	0.001	-	-	-	1.2	434	93	140	1845	88	17	1121	34000	2620
91-68	11057	15.00	16.00	1.00	0.02	0.001	-	-	-	0.8	209	52	201	1630	45	29	533	25760	1610
91-68	11058	16.00	16.50	0.50	-	-	4	-	-	0.6	347	10	27	375	8	21	87	22760	6690
91-68	11073	16.50	17.00	0.50	-	-	17	-	-	0.2	731	11	12	210	10	26	79	26340	820
91-68	11059	17.00	18.30	1.30	-	-	1	-	-	0.7	65	8	60	165	7	23	115	12510	7510
91-68	11060	18.30	20.00	1.70	-	-	1	-	-	0.9	21	4	47	125	6	22	121	10190	10230
91-68	11061	20.00	22.00	2.00	-	-	3	-	-	0.7	17	2	59	120	5	21	121	8480	7020
91-68	11062	22.00	24.00	2.00	-	-	1	-	-	0.7	22	2	43	115	5	22	118	6460	8530
91-68	11063	24.00	26.00	2.00	-	-	1	-	-	0.6	20	2	106	270	8	34	182	11430	10100
91-68	11064	26.00	28.00	2.00	-	-	1	-	-	0.6	13	2	81	325	7	23	132	10110	11820
91-68	11065	28.00	29.90	1.90	-	-	2	-	-	0.6	17	2	121	220	8	30	199	12740	8800

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M.REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ37+38  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPM	HG PPM
11020	.6	7070	689	7	115	1.1	1	520	.1	4	13	18810	2760	5	4630	31	45	160	96	130	30	50	3	2	14	3.6	260	3	2	2	55	1	825
11021	1.3	5970	221	3	68	.7	2	4860	1.4	5	35	17730	1220	9	7200	127	32	680	57	410	16	60	9	2	22	47.9	299	5	2	9	187	1120	
11022	1.9	4950	181	2	52	.4	2	3530	2.2	4	38	16380	1090	6	4660	87	33	1540	76	1090	20	51	7	1	22	62.8	256	4	1	6	135	860	
11023	1.5	4500	215	2	55	.5	2	2200	2.1	5	42	18100	1120	5	3810	89	39	1760	69	670	21	54	6	1	23	59.1	209	2	2	9	207	1085	
11024	2.0	4290	156	2	79	.5	1	900	.1	7	58	22000	1720	3	1450	104	30	2280	49	330	22	50	4	1	36	39.0	181	1	2	6	128	815	
11025	.6	6610	62	4	48	.7	1	3270	.1	1	5	8330	890	10	9470	29	6	350	4	30	16	5	17	1	19	2.0	80	4	2	6	142	2	230
11026	.5	8710	68	3	52	.8	2	10	.1	2	5	9480	800	13	12450	27	7	340	4	30	21	5	2	1	12	2.3	77	5	3	7	183	1	125
11027	.8	10170	96	4	101	1.8	2	140	.1	1	5	9830	1710	13	12420	21	10	220	3	40	22	4	4	2	14	2.3	96	5	2	5	124	1	155
11028	.5	8700	96	2	41	1.0	1	10	.1	2	6	10800	690	14	13220	30	5	340	4	30	22	4	3	1	14	2.1	76	5	4	6	163	1	150
11029	.5	8130	52	2	76	1.5	2	10	.1	1	6	8430	1370	10	10210	32	8	350	1	40	22	5	3	2	14	1.6	99	5	3	5	124	1	115
11030	.5	8870	74	2	48	1.2	1	130	.1	2	6	10730	930	13	13200	28	12	320	1	30	21	5	4	1	13	2.4	90	5	4	9	222	3	120
11031	.4	5800	62	1	48	.8	1	700	.1	1	4	7500	670	7	8310	21	9	360	2	30	21	5	8	1	12	1.7	77	5	2	6	146	1	135
11032	.6	9270	75	2	105	1.5	2	110	.1	2	7	11310	1990	10	9730	49	14	570	3	40	32	9	4	3	18	2.0	122	5	3	12	301	1	165
11033	.8	21900	76	2	168	2.9	3	370	.1	2	7	14550	2530	38	31060	29	8	150	1	10	21	2	4	1	20	3.4	135	2	3	3	89	2	165
11034	.8	26660	58	3	173	4.4	3	650	.1	2	7	15940	3150	51	38590	46	7	120	1	10	19	2	5	1	27	3.3	162	1	4	2	83	1	190
11035	1.0	21800	41	3	178	4.0	3	6740	.1	2	6	12960	3970	32	30700	85	5	200	1	40	28	2	22	3	31	3.3	154	3	3	2	63	1	185
11036	.8	16260	76	2	206	3.6	2	3790	.1	2	6	16570	2490	29	24550	44	9	110	1	50	31	6	14	3	15	2.9	135	3	3	3	79	1	255
11037	1.1	17250	36	1	90	3.0	2	20560	.1	2	5	13840	1870	30	38750	291	3	100	1	10	17	2	57	1	12	4.5	123	1	1	1	47	2	185
11038	.7	17370	100	2	107	2.9	1	660	.1	2	6	15620	2290	30	24720	17	8	60	2	10	27	3	4	2	15	2.9	150	2	3	3	88	1	160
11039	.7	22370	32	2	79	2.7	2	240	.1	2	10	11500	2030	42	32200	14	2	80	4	10	22	1	3	1	19	3.8	141	1	4	3	92	1	120
11040	.9	24540	51	2	114	3.4	2	270	.1	2	12	13500	2180	46	34920	15	6	60	3	20	24	1	4	1	18	4.0	158	1	4	3	106	2	145
11041	.9	19260	72	2	114	3.5	3	2380	.1	2	8	12790	3980	26	21860	20	5	70	6	40	33	3	9	4	19	3.3	185	4	3	2	44	1	180
11042	1.3	19300	35	1	459	2.9	2	5280	.1	2	5	11360	2840	32	29800	27	3	60	1	10	19	1	19	2	18	3.2	129	2	3	3	88	1	130
11043	2.3	17200	129	1	85	2.9	2	3940	.1	2	6	16560	2890	28	25000	25	3	50	1	30	30	7	16	3	16	2.8	136	3	3	2	48	51	405
11044	1.4	18020	44	2	117	3.1	2	6990	.1	2	6	13850	4220	23	21770	33	5	70	1	30	29	3	26	4	17	2.7	140	4	3	3	86	1	250
11045	1.7	11010	84	1	132	2.7	2	10390	.1	2	6	13790	3850	9	12540	80	3	50	1	50	33	8	40	4	15	2.2	131	5	3	2	45	5	305
11046	1.1	4790	63	1	111	1.9	1	10020	.1	1	6	9630	2720	2	6450	100	22	30	1	50	21	4	57	3	15	1.7	93	3	3	5	137	1	175
11047	1.2	9290	358	9	154	2.7	2	2100	3.0	16	99	60130	4660	1	1040	373	25	1770	51	370	29	83	5	1	43	58.0	582	1	1	4	81	2335	
11048	2.1	7690	566	7	79	1.3	2	1440	9.4	9	82	34430	3680	1	580	87	20	1620	50	590	12	90	10	1	31	55.9	769	1	2	2	46	2250	
11049	2.0	11030	772	9	253	2.8	2	2350	6.5	13	100	50920	5480	1	890	150	19	1630	50	590	16	112	6	1	43	63.5	768	1	1	2	37	2800	
11050	1.8	8650	658	7	246	2.6	2	1310	10.9	8	82	31360	4340	1	680	97	20	2760	61	290	23	79	4	1	47	56.4	840	1	2	3	51	1950	
11051	2.1	10410	939	8	171	2.6	2	1550	13.2	10	92	35590	5160	2	780	106	30	1320	70	380	20	95	4	1	33	68.9	1026	1	1	3	47	2200	
11052	2.0	8620	750	7	134	2.1	2	1470	13.3	8	82	30940	4350	2	670	91	28	1260	78	340	14	83	4	1	27	56.8	1038	1	1	2	32	1955	
11053	1.1	8800	930	7	141	2.1	2	1720	7.4	8	74	26270	4410	1	650	81	42	1210	110	450	11	75	5	1	34	71.9	807	1	1	3	49	1670	
11054	1.2	11230	1046	9	156	2.4	2	3400	7.7	11	90	36150	5560	1	850	132	60	2460	136	880	21	99	7	1	37	84.1	962	1	1	2	20	1835	
11055	.9	9170	577	8	137	2.5	2	3060	8.9	12	95	38910	4730	1	720	157	70	1290	137	730	11	103	6	1	36	74.1	1037	1	1	2	29	2000	
11056	1.2	8440	434	7	140	2.2	2	2620	11.2	11	88	34000	4240	1	680	123	64	1110	139	710	17	93	6	1	33	67.3	1121	1	2	2	24	1845	
11057	.8	6790	209	5	201	2.2	2	1610	4.4	7	45	25760	3610	2	1550	157	35	1520	51	410	29	52	5	5	36	23.8	533	1	1	3	56	1630	
11058	.6	1590	347	1	27	.5	1	6690	.1	3	8	22760	800	1	260	86	8	490	1	120	21	10	13	1	23	.9	87	1	1	5	132	4	375
11059	.7	2730	65	1	60	1.1	1	7510	.1	2	7	12510	1420	1	1820	138	16	420	2	90	23	8	14	1	25	1.1	115	2	3	9	231	1	165
11060	.9	4050	21	1	47	1.6	2	10230	.1	1	6	10190	1590	2	5110	291	12	130	2	20	22	4	19	2	19	1.7	121	4	3	4	93	1	125
11061	.7	3570	17	1	59	1.8	1	7020	.1	1	5	8480	1700	2	4340	166	4	120	1	20	21	2	16	1	17	1.2	121	3	2	4	88	3	120
11062	.7	2730	22	1	43	1.6	2	8530	.1	1	5	6460	1570	1	2590	147	1	150	3	10	22	2	15	1	20	1.3	118	3	2	4	99	1	115
11063	.6	7900	20	8	106	2.7	1	10100	.1	2	8	11430	4470	1	4590	231	2	120	1	20	34	2	26	4	47	2.3	182	3	2	4	94	1	270
11064	.6	7170	13	6	81	2.6	1	11820	.1	1	7	10110	3470	1	3080	209	2	100	1	10	23	2	23	4	57	2.1	132	2	3	3	72	1	325
11065	.6	10960	17	4	121	3.4	1	8800	.1	1	8	12740	5080	2	4130	195	2	110	1	10	30	2	17	5	65	1.3	199	3	3	3	64	2	220
11066	.5	3550	189	3	48	.7	3	480	.2	4	19	23340	1700	4	940	76	33	150	26	60	18	25	2	3	21	6.1	285	1	2	6			



**MIN-EN LABORATORIES**  
 (DIVISION OF ASSAYERS CORP.)

91-65

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
 CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

705 WEST 15TH STREET  
 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
 TELEPHONE (604) 980-5814 OR (604) 988-4524  
 FAX (604) 980-9621

**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Assay Certificate

1S-0182-RA1

Company: **COPELAND REBAGLIATI & ASSOC.**  
 Project: 9101  
 Site: MARK REBAGLIATI

Date: JUL-25-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.  
 2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

We hereby certify the following Assay of 30 ROCK samples  
 submitted JUL-22-91 by RICHARD HASLINGER.

Sample number	AU-FIRE g/tonne	AU-FIRE oz/ton
11047	.01	.001
11048	.01	.001
11049	.02	.001
11050	.18	.005
11051	.22	.006
11052	.08	.002
11053	.18	.005
11054	.35	.010
11055	.29	.008
11056	.05	.001
11057	.02	.001

Certified by \_\_\_\_\_

MIN-EN LABORATORIES

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-69  
 SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 104B/9 CLAIM # : SIB 12, 35  
 LOCAL GRID : 8819.92 N / 9705.76 E GLOBAL GRID : 13212.69 N / 17731.19 E  
 LENGTH : 54.30 m INCLINATION : -78.0 degrees ELEVATION : 976.71 metres  
 OVERBURDEN : 0.61 m CASING : 0.61 metres AZIMUTH : 107.0 degrees  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/20 DATE DRILLED : 1991/07/19 CORE LOCATION: 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 11074-11119

SUMMARY LOG 91-69

From(m)	To(m)	Field Name (Legend)
0.00	0.61	CASING
0.61	20.00	TURBIDITIC MUDSTONE (3.6)
20.00	21.00	BLACK CHERT - CHERT BRECCIA (3.3)
21.00	29.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
29.00	43.00	SULPHIDIC MUDSTONE AND CHERT (3.5)
43.00	54.30	TUFFACEOUS RHYOLITE -SERICITE (3.9a) +/- RHYODACITIC FRAGMENTALS -SERICITE (3.0a)
54.30		END OF HOLE.

ANALYTICAL HIGHLIGHTS 91-69

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
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No significant results.



From(m)	To(m)	Description
0.00	0.61	CASING
0.61	20.00	TURBIDITIC MUDSTONE (3.6)
20.00	21.00	BLACK CHERT - CHERT BRECCIA (3.3)
21.00	29.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
29.00	43.00	SULPHIDIC MUDSTONE AND CHERT (3.5)

Lithology

- Mudstone divided into: Pelagic mudstone -silt bands turbidites, some pyritic bands; and Sulphidic mudstone -pyrite laminae in a black matrix, rarer chert beds.
- Pelagic mudstone -0.61 - 14.0; most of the very fine silt beds occur between 8.5 and 11.5 metres. Tops are up hole (younging upsection).
- Sulphidic mudstone -14.0 - 43.0 metres; pyritic beds common as laminae, rarer cherty bands and mixed silt/pyritic beds.
- Sub-intervals: 21.0 - 22.0 -Mixed volcanoclastic rock (fold nose)
- 27.2 - 28.0 -As above (fold nose)
- 28.0 - 30.3 -Rhyolitic flow, silicified, veined, younging below
- 23.0m is down hole, implying that this borehole penetrated the closure portion of a tight synclinal fold. Faulting (shearing has removed the repeated portion of the pelagic mudstone).

Structure

- In pelagic portion (0.61 - 14.0m) beds dip at 25 degrees; and this slowly collapses to 15 degrees from 13.0 - 14.0 metres.
- Sulphidic unit is deformed from 14.0 - 23.0m, dip on bedding is not reliable. Shear zone from 17.0 - 20.0; bedding at 0 degree to c/a. This may be in the hinge area of the fold.
- Ptyrmatic and parasitic folds, structures noted from the shear zone to 27.2m. First indication of younging down is at 23.3, on a sulphidic interbed.
- The heavy veining in the rhyolitic unit from 27.2 - 30.3 is due to the fracturing common in the hinge/nose area of a fold.
- Graphitic, sheared interval from 32.0 - 38.0m. Again foliations are at 0 - 15 degrees, with thin graphitic partings throughout. The younging on the pyritic laminae still indicate downward.
- Sharp contact @ 43.0m. Foliation from 38.0 - 43.0 do not match bedding, this indicates that penetrative deformation foliation changes through a closure. Bedding @ 20 - 30 degrees to c/a.

Alteration

- Silicification weak to moderate, especially evident in the hinge zone where the felsic volcanics are veined.

Mineralization

- Essentially syngenetic pyrite present 1 - 2% common. Pelagic zone has <1% pyrite.
- Epigenetic or metamorphic pyrite is <0.5% of rock.
- Trace sphalerite @ 17.9 - 18.0m, associated with carbonate veining in a shear zone.

From(m)	To(m)	-----Description-----
43.00	54.30	TUFFACEOUS RHYOLITE -SERICITE (3.9a) +/- RHYODACITIC FRAGMENTALS -SERICITE (3.0a)

## Lithology

-Mottled greenish grey, some sections a Khaki hue, brecciated type of rhyolite, some thin beds of purer cherty rhyolite. Colour: brecciation vary throughout this interval. Matrix appears to be both chloritic and sericitic. But the "chloritic" contribution may be due to the facies relationship with the "Lulu zone" below this zone.

## Structure

-Massive to semi-massive, weak foliation zones in flow contacts. But not reliable for measurements.

## Alteration

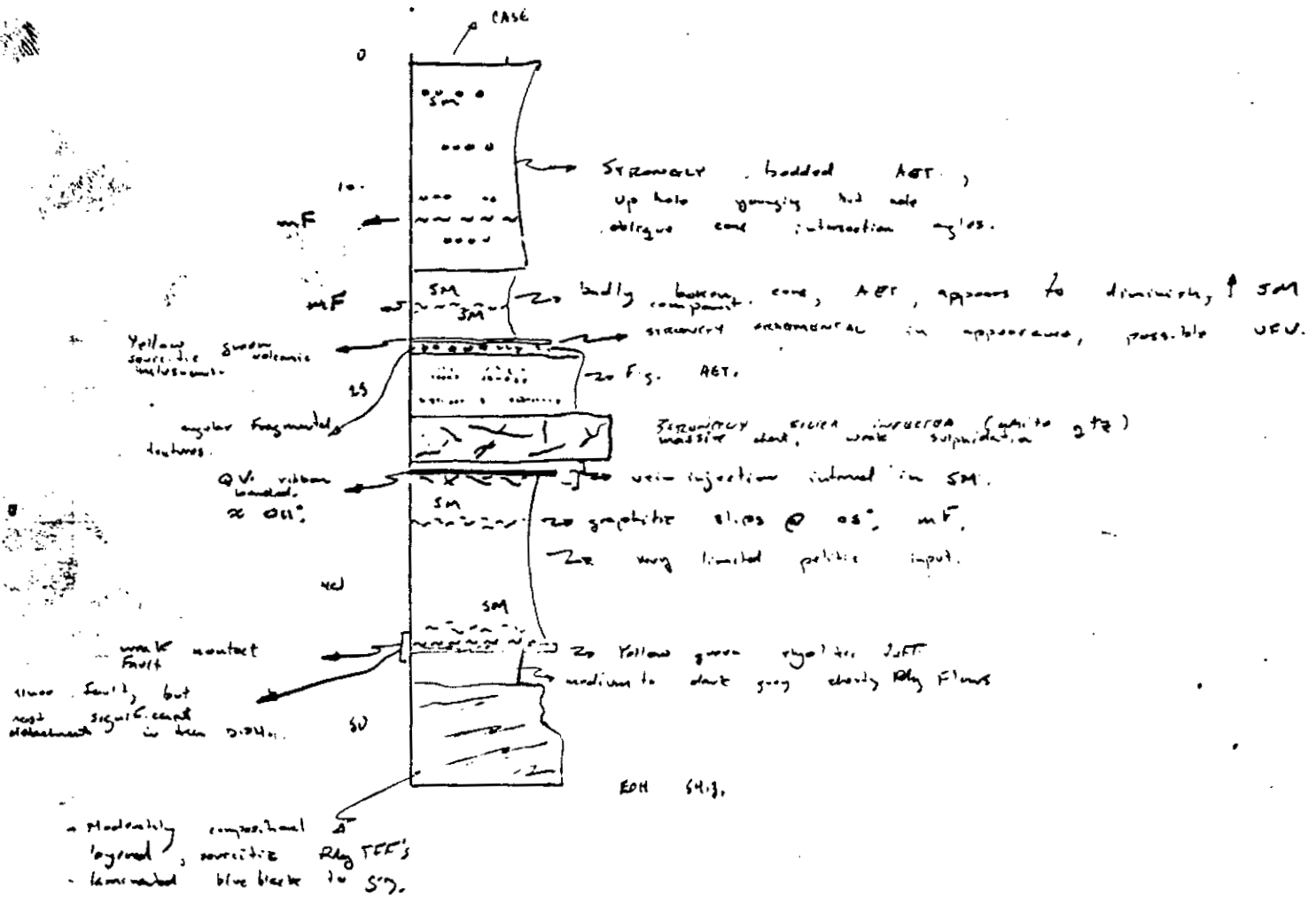
-Very weak sericite alteration, silica overprint: weak to moderate  
 -Veining in the siliceous sections are quartz type, while in the other lower more greenish sections there are some thin calcitic veinlets. All veins are unmineralized.

## Mineralized

-Unmineralized, but 0.25% to trace amounts of pyrite as speckles noted.

54.30      END OF HOLE.

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-69	11074	0.61	3.05	2.44	-	-	1	-	-	2.5	107	29	144	1560	63	21	163	25840	9670
91-69	11075	3.05	4.00	0.95	-	-	2	-	-	1.8	101	23	100	1475	61	24	132	29790	11360
91-69	11076	4.00	5.00	1.00	-	-	1	-	-	1.9	135	27	95	1500	70	22	236	47320	10260
91-69	11077	5.00	6.00	1.00	-	-	1	-	-	2.6	127	28	78	1680	72	34	789	38180	11780
91-69	11078	6.00	7.00	1.00	-	-	8	-	-	3.4	83	23	99	1940	70	26	1229	17580	15680
91-69	11079	7.00	8.00	1.00	-	-	2	-	-	2.5	183	27	100	1220	66	36	343	36800	10460
91-69	11080	8.00	9.00	1.00	-	-	4	-	-	1.7	121	25	99	995	47	21	268	30550	10090
91-69	11081	9.00	10.00	1.00	-	-	1	-	-	1.1	92	20	212	830	40	18	263	26230	9560
91-69	11082	10.00	11.00	1.00	-	-	2	-	-	0.5	87	23	116	800	38	25	179	29720	7440
91-69	11083	11.00	12.00	1.00	-	-	1	-	-	0.6	92	20	153	915	47	13	261	34670	10350
91-69	11084	12.00	13.00	1.00	-	-	3	-	-	0.7	96	21	122	850	47	34	200	31240	13500
91-69	11085	13.00	14.00	1.00	0.02	0.001	-	-	-	1.6	121	41	69	1215	64	24	616	26350	12090
91-69	11086	14.00	15.00	1.00	0.01	0.001	-	-	-	1.3	134	46	69	1200	67	19	624	28140	7430
91-69	11087	15.00	16.00	1.00	0.01	0.001	-	-	-	0.9	104	30	76	1100	45	18	309	28610	12330
91-69	11088	16.00	17.00	1.00	0.02	0.001	-	-	-	0.9	87	33	82	1045	50	15	465	23520	7830
91-69	11089	17.00	18.00	1.00	0.20	0.006	-	-	-	1.6	1613	101	177	2455	92	16	1236	41910	6970
91-69	11090	18.00	19.00	1.00	0.01	0.001	-	-	-	0.4	133	28	167	815	15	24	279	19050	870
91-69	11091	19.00	20.00	1.00	0.01	0.001	-	-	-	0.6	129	45	146	1150	41	24	398	22440	1660
91-69	11092	20.00	21.00	1.00	0.01	0.001	-	-	-	0.7	127	47	73	1135	51	24	646	20640	1680
91-69	11093	21.00	22.00	1.00	0.03	0.001	-	-	-	0.5	104	14	86	680	8	23	152	17610	9090
91-69	11094	22.00	23.00	1.00	0.02	0.001	-	-	-	0.8	130	24	70	1045	24	15	301	14460	19890
91-69	11095	23.00	24.00	1.00	0.02	0.001	-	-	-	0.8	363	56	96	1955	64	11	382	44820	2300
91-69	11096	24.00	25.00	1.00	0.01	0.001	-	-	-	0.7	179	48	100	1595	62	15	771	27130	2950
91-69	11097	25.00	26.00	1.00	0.01	0.001	-	-	-	0.7	186	55	227	1480	66	15	673	30310	3650
91-69	11098	26.00	27.20	1.20	0.02	0.001	-	-	-	0.9	181	44	124	1280	53	16	506	28090	4120
91-69	11099	27.20	28.70	1.50	0.02	0.001	-	-	-	2.1	44	5	9	575	1	2	13	1720	10
91-69	11100	28.70	30.30	1.60	0.01	0.001	-	-	-	0.4	200	12	122	365	15	12	127	8900	4050
91-69	11101	30.30	31.00	0.70	0.02	0.001	-	-	-	1.2	161	36	114	1000	56	16	357	26930	3640
91-69	11102	31.00	32.00	1.00	0.01	0.001	-	-	-	1.9	239	43	99	1120	72	15	358	28920	3430
91-69	11103	32.00	33.00	1.00	0.04	0.001	-	-	-	1.7	168	41	91	1040	54	19	294	28630	8170
91-69	11104	33.00	34.00	1.00	0.03	0.001	-	-	-	1.3	171	55	211	1035	61	22	542	38790	19550
91-69	11105	34.00	35.00	1.00	0.02	0.001	-	-	-	0.7	132	61	80	1240	63	14	476	37210	9460
91-69	11106	35.00	36.00	1.00	0.01	0.001	-	-	-	0.5	113	58	76	1055	65	9	433	40390	10930
91-69	11107	36.00	37.00	1.00	0.01	0.001	-	-	-	0.6	88	49	68	1065	56	13	793	27010	12640
91-69	11108	37.00	38.00	1.00	0.01	0.001	-	-	-	0.7	112	68	86	1040	64	12	851	31450	7120
91-69	11109	38.00	39.00	1.00	0.02	0.001	-	-	-	0.5	124	76	73	1030	63	15	786	33350	6130
91-69	11110	39.00	40.00	1.00	0.03	0.001	-	-	-	0.9	161	104	72	1335	90	17	850	39700	7150
91-69	11111	40.00	41.00	1.00	0.03	0.001	-	-	-	0.6	122	80	74	1310	67	19	750	36470	6770
91-69	11112	41.00	42.00	1.00	0.02	0.001	-	-	-	0.6	106	71	124	1130	68	22	674	41140	7290
91-69	11113	42.00	43.00	1.00	0.02	0.001	-	-	-	1.5	130	43	59	1015	52	22	402	35190	14360
91-69	11114	43.00	45.00	2.00	-	-	1	-	-	1.0	24	5	99	-	7	16	173	9950	12780
91-69	11115	45.00	47.00	2.00	-	-	2	-	-	0.9	36	4	75	-	9	31	171	16390	7540
91-69	11116	47.00	49.00	2.00	-	-	1	-	-	0.7	18	1	232	-	9	26	157	21400	8100
91-69	11117	49.00	51.00	2.00	-	-	1	-	-	0.9	10	1	124	-	6	23	101	11890	12930
91-69	11118	51.00	53.00	2.00	-	-	1	-	-	0.8	32	1	86	-	5	23	93	11560	9810
91-69	11119	53.00	54.30	1.30	-	-	10	-	-	0.7	21	1	155	-	6	22	145	12800	4670



STRUCTURAL DATA:		
5.5	7	0°
8.5	7	10°
9.5	7	15°
15.5	7	05°
23.5	7	045°
32.5	7	0°
42.0	7	22°
44.2	7	05°
53.48.7	7	022°
54.0	7	015°
48.5	7	012°

(2.0) 7 sh (S) 08°  
 make up hole younging closure.  
 definition up hole (G.D.S.)  
 sub to Colialim.

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M.REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ37+38  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
11020	.6	7070	689	7	115	1.1	1	520	.1	4	13	18810	2760	5	4630	31	45	160	96	130	30	50	3	2	14	3.6	260	3	2	2	55	1	825
11021	1.3	5970	221	3	68	.7	2	4860	1.4	5	35	17730	1220	9	7200	127	32	680	57	410	16	60	9	2	22	47.9	299	5	2	9	187		1120
11022	1.9	4950	181	2	52	.4	2	3530	2.2	4	38	16380	1090	6	4660	87	33	1540	76	1090	20	51	7	1	22	62.8	256	4	1	6	135		860
11023	1.5	4500	215	2	55	.5	2	2200	2.1	5	42	18100	1120	5	3810	89	39	1760	69	670	21	54	6	1	23	59.1	209	2	2	9	207		1085
11024	2.0	4290	156	2	79	.5	1	900	.1	7	58	22000	1720	3	1450	104	30	2280	49	330	22	50	4	1	36	39.0	181	1	2	6	128		815
11025	.6	6610	62	4	48	.7	1	3270	.1	1	5	8330	890	10	9470	29	6	350	4	30	16	5	17	1	19	2.0	80	4	2	6	142	2	230
11026	.5	8710	68	3	52	.8	2	10	.1	2	5	9480	800	13	12450	27	7	340	4	30	21	5	2	1	12	2.3	77	5	3	7	183	1	125
11027	.8	10170	96	4	101	1.8	2	140	.1	1	5	9830	1710	13	12420	21	10	220	3	40	22	4	4	2	14	2.3	96	5	2	5	124	1	155
11028	.5	8700	96	2	41	1.0	1	10	.1	2	6	10800	690	14	13220	30	5	340	4	30	22	4	3	1	14	2.1	76	5	4	6	163	1	150
11029	.5	8130	52	2	76	1.5	2	10	.1	1	6	8430	1370	10	10210	32	8	350	1	40	22	5	3	2	14	1.6	99	5	3	5	124	1	115
11030	.5	8870	74	2	48	1.2	1	130	.1	2	6	10730	930	13	13200	28	12	320	1	30	21	5	4	1	13	2.4	90	5	4	9	222	3	120
11031	.4	5800	62	1	48	.8	1	700	.1	1	4	7500	670	7	8310	21	9	360	2	30	21	5	8	1	12	1.7	77	5	2	6	146	1	135
11032	.6	9270	75	2	105	1.5	2	110	.1	2	7	11310	1990	10	9730	49	14	570	3	40	32	9	4	3	18	2.0	122	5	3	12	301	1	165
11033	.8	21900	76	2	168	2.9	3	370	.1	2	7	14550	2530	38	31060	29	8	150	1	10	21	2	4	1	20	3.4	135	2	3	3	89	2	165
11034	.8	26660	58	3	173	4.4	3	650	.1	2	7	15940	3150	51	38590	46	7	120	1	10	19	2	5	1	27	3.3	162	1	4	2	83	1	190
11035	1.0	21800	41	3	178	4.0	3	6740	.1	2	6	12960	3970	32	30700	85	5	200	1	40	28	2	22	3	31	3.3	154	3	3	2	63	1	185
11036	.8	16260	76	2	206	3.6	2	3790	.1	2	6	16570	2490	29	24550	44	9	110	1	50	31	6	14	3	15	2.9	135	3	3	3	79	1	255
11037	1.1	17250	36	1	90	3.0	2	20560	.1	2	5	13840	1870	30	38750	291	3	100	1	10	17	2	57	1	12	4.5	123	1	3	1	47	2	185
11038	.7	17370	100	2	107	2.9	1	660	.1	2	6	15620	2290	30	24720	17	8	60	2	10	27	3	4	2	15	2.9	150	2	3	3	88	1	160
11039	.7	22370	32	2	79	2.7	2	240	.1	2	10	11500	2030	42	32200	14	2	80	4	10	22	1	3	1	19	3.8	141	1	4	3	92	1	120
11040	.9	24540	51	2	114	3.4	2	270	.1	2	12	13500	2180	46	34920	15	6	60	3	20	24	1	4	1	18	4.0	158	1	4	3	106	2	145
11041	.9	19260	72	2	114	3.5	3	2380	.1	2	8	12790	3980	26	21860	20	5	70	6	40	33	3	9	4	19	3.3	185	4	3	2	44	1	180
11042	1.3	19300	35	1	459	2.9	2	5280	.1	2	5	11360	2840	32	29800	27	3	60	1	10	19	1	19	2	18	3.2	129	2	3	3	88	1	130
11043	2.3	17200	129	1	85	2.9	2	3940	.1	2	6	16560	2890	28	25000	25	3	50	1	30	30	7	16	3	16	2.8	136	3	3	2	48	51	405
11044	1.4	18020	44	2	117	3.1	2	6990	.1	2	6	13850	4220	23	21770	33	5	70	1	30	29	3	26	4	17	2.7	140	4	3	3	86	1	250
11045	1.7	11010	84	1	132	2.7	2	10390	.1	2	6	13790	3850	9	12540	80	3	50	1	50	33	8	40	4	15	2.2	131	5	3	2	45	5	305
11046	1.1	4790	63	1	111	1.9	1	10020	.1	1	6	9630	2720	2	6450	100	22	30	1	50	21	4	57	3	15	1.7	93	3	3	5	137	1	175
11047	1.2	9290	358	9	154	2.7	2	2100	3.0	16	99	60130	4660	1	1040	373	25	1770	51	370	29	83	5	1	43	58.0	582	1	1	4	81		2335
11048	2.1	7690	566	7	79	1.3	2	1440	9.4	9	82	34430	3680	1	580	87	20	1620	50	590	12	90	10	1	31	55.9	769	1	2	2	46		2250
11049	2.0	11030	772	9	253	2.8	2	2350	6.5	13	100	50920	5480	1	890	150	19	1630	50	590	16	112	6	1	43	63.5	768	1	1	2	37		2800
11050	1.8	8650	658	7	246	2.6	2	1310	10.9	8	82	31360	4340	1	680	97	20	2760	61	290	23	79	4	1	47	56.4	840	1	2	3	51		1950
11051	2.1	10410	939	8	171	2.6	2	1550	13.2	10	92	35590	5160	2	780	106	30	1320	70	380	20	95	4	1	33	68.9	1026	1	1	3	47		2200
11052	2.0	8620	750	7	134	2.1	2	1470	13.3	8	82	30940	4350	2	670	91	28	1260	78	340	14	83	4	1	27	56.8	1038	1	1	2	32		1955
11053	1.1	8800	930	7	141	2.1	2	1720	7.4	8	74	26270	4410	1	650	81	42	1210	110	450	11	75	5	1	34	71.9	807	1	1	3	49		1670
11054	1.2	11230	1046	9	156	2.4	2	3400	7.7	11	90	36150	5560	1	850	132	60	2460	136	880	21	99	7	1	37	84.1	962	1	1	2	20		1835
11055	.9	9170	577	8	137	2.5	2	3060	8.9	12	95	38910	4730	1	720	157	70	1290	137	730	11	103	6	1	36	74.1	1037	1	1	2	29		2000
11056	1.2	8440	434	7	140	2.2	2	2620	11.2	11	88	34000	4240	1	680	123	64	1110	139	710	17	93	6	1	33	67.3	1121	1	2	2	24		1845
11057	.8	6790	209	5	201	2.2	2	1610	4.4	7	45	25760	3610	2	1550	157	35	1520	51	410	29	52	5	5	36	23.8	533	1	1	3	56		1630
11058	.6	1590	347	1	27	.5	1	6690	.1	3	8	22760	800	1	260	86	8	490	1	120	21	10	13	1	23	.9	87	1	1	5	132	4	375
11059	.7	2730	65	1	60	1.1	1	7510	.1	2	7	12510	1420	1	1820	138	16	420	2	90	23	8	14	1	25	1.1	115	2	3	9	231	1	165
11060	.9	4050	21	1	47	1.6	2	10230	.1	1	6	10190	1590	2	5110	291	12	130	2	20	22	4	19	2	19	1.7	121	4	3	4	93	1	125
11061	.7	3570	17	1	59	1.8	1	7020	.1	1	5	8480	1700	2	4340	166	4	120	1	20	21	2	16	1	17	1.2	121	3	2	4	88	3	120
11062	.7	2730	22	1	43	1.6	2	8530	.1	1	5	6460	1570	1	2590	147	1	150	3	10	22	2	15	1	20	1.3	118	3	2	4	99	1	115
11063	.6	7900	20	8	106	2.7	1	10100	.1	2	8	11430	4470	1	4590	231	2	120	1	20	34	2	26	4	47	2.3	182	3	2	4	94	1	270
11064	.6	7170	13	6	81	2.6	1	11820	.1	1	7	10110	3470	1	3080	209	2	100	1	10	23	2	23	4	57	2.1	132	2	3	3	72	1	325
11065	.6	10960	17	4	121	3.4	1	8800	.1	1	8	12740	5080	2	4130	195	2	110	1	10	30	2	17	5	65	1.3	199	3	3	3	64	2	220
11066	.5	3550	189	3	48	.7	3	480	.2	4	19	23340	1700	4	940	76	33	150	26	60	18												

COMP: COPELAND, REBAGLIATI & ASSOC.

PROJ: 9101

ATTN: M. REBAGLIATI

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

(604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ39+40

DATE: 91/10/17

\* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
11076	1.9	8260	135	4	95	1.3	1	10260	.1	11	70	47320	4020	1	3810	410	13	2370	28	990	22	27	18	1	22	30.2	236	1	1	1	2	1	1500
11077	2.6	6260	127	3	78	1.0	1	11780	18.3	7	72	38180	2900	1	4380	424	17	4810	52	1060	34	28	20	1	20	62.4	789	1	2	1	11	1	1680
11078	3.4	7800	83	4	99	1.1	1	15680	37.1	5	70	17580	3790	1	6330	621	16	2640	66	1510	26	23	30	1	26	111.2	1229	1	2	3	40	8	1940
11079	2.5	6840	183	4	100	1.2	1	10460	5.6	7	66	36800	3290	1	3970	414	11	3760	33	920	36	27	19	1	22	40.4	343	1	2	1	13	2	1220
11080	1.7	7440	121	5	99	1.1	1	10090	1.0	8	47	30550	3530	1	3560	394	12	2080	34	1080	21	25	19	1	21	28.9	268	1	1	1	21	4	995
11081	1.1	8590	92	4	212	1.0	1	9560	.8	7	40	26230	3850	2	5340	485	11	2210	21	540	18	20	18	1	22	30.8	263	1	2	1	25	1	830
11082	.5	11780	87	4	116	1.3	1	7440	.1	8	38	29720	3980	7	7380	477	17	3900	22	340	25	23	14	1	25	29.9	179	1	2	1	6	2	800
11083	.6	13610	92	5	153	1.4	1	10350	.1	11	47	34670	4900	5	7490	582	11	160	13	720	13	20	23	1	25	44.1	261	1	2	1	12	1	915
11084	.7	10100	96	4	122	1.1	1	13500	.1	9	47	31240	3870	3	8080	593	9	3580	19	320	34	21	39	1	19	41.0	200	1	1	1	22	3	850
11085	1.6	4160	121	13	69	.6	1	12090	8.0	10	64	26350	2390	6	5520	446	19	750	60	380	24	41	34	2	14	28.5	616	1	3	2	39	1	1215
11086	1.3	3510	134	10	69	.7	1	7430	8.0	9	67	28140	2070	4	2600	325	23	1080	66	330	19	46	16	1	11	23.0	624	1	3	1	22	1	1200
11087	.9	4900	104	8	76	.9	1	12330	2.6	8	45	28610	2620	3	4910	388	14	720	32	340	18	30	49	1	11	19.5	309	1	2	1	24	1	1100
11088	.9	5440	87	6	82	1.3	1	7830	5.7	7	50	23520	2980	2	3020	368	17	940	49	490	15	33	20	1	14	22.3	465	1	3	1	17	1	1045
11089	1.6	4960	1613	7	177	2.0	1	6970	9.7	12	92	41910	2800	3	1880	259	51	770	101	900	16	101	17	1	14	31.7	1236	1	2	1	27	1	2455
11090	.4	5910	133	5	167	3.1	1	870	.1	3	15	19050	3800	1	650	40	58	680	20	140	24	28	4	10	17	2.7	279	1	2	1	17	1	815
11091	.6	5610	129	5	146	2.3	1	1660	1.5	6	41	22440	3440	1	540	94	51	1520	49	360	24	45	5	4	25	15.0	398	1	2	2	67	1	1150
11092	.7	2670	127	3	73	1.3	1	1680	6.5	6	51	20640	1650	1	280	98	34	810	69	430	24	47	4	1	16	16.4	646	1	3	2	55	1	1135
11093	.5	3600	104	3	86	1.7	1	9090	.1	2	8	17610	2290	1	600	95	14	680	4	90	23	14	17	7	19	1.4	152	1	2	3	68	1	680
11094	.8	2830	130	2	70	.8	1	19890	2.3	4	24	14460	1890	1	570	303	18	1100	29	320	15	24	33	3	17	7.7	301	1	3	2	58	1	1045
11095	.8	3960	363	4	96	1.2	1	2300	1.3	11	64	44820	2610	1	400	415	15	580	37	400	11	56	4	1	21	20.6	382	1	2	1	15	1	1955
11096	.7	4340	179	4	100	1.1	1	2950	8.2	9	62	27130	2560	1	450	195	36	650	83	620	15	48	7	1	22	26.5	771	1	2	2	45	1	1595
11097	.7	4090	186	4	227	1.7	1	3650	6.8	9	66	30310	2550	1	790	188	36	720	73	510	15	55	8	1	16	20.0	673	1	2	1	36	1	1480
11098	.9	3930	181	3	124	1.3	1	4120	4.4	8	53	28090	2440	1	860	199	27	740	51	660	16	44	8	1	20	19.0	506	1	2	1	30	1	1280
11099	2.1	190	44	1	9	.1	3	10	.1	1	1	1720	210	2	80	9	2	20	3	30	2	5	1	4	2	2.1	13	8	1	1	8	1	575
11100	.4	3330	200	1	122	1.5	1	4050	.1	1	15	8900	2050	1	2330	113	12	200	6	50	12	12	11	6	28	2.3	127	2	2	4	97	1	365
11101	1.2	3660	161	2	114	1.1	1	3640	3.1	9	56	26930	2410	1	1340	198	17	660	38	290	16	36	9	1	20	20.4	357	1	2	3	77	1	1000
11102	1.9	4240	239	2	99	1.1	1	3430	1.4	8	72	28920	2680	1	1250	215	15	1200	38	300	15	43	8	1	23	24.2	358	1	3	3	62	1	1120
11103	1.7	3680	168	2	91	1.1	1	8170	1.5	8	54	28630	2330	1	1230	267	15	730	34	460	19	41	20	1	18	22.8	294	1	1	3	94	1	1040
11104	1.3	3760	171	4	211	1.5	2	19550	4.3	13	61	38790	2150	1	7800	535	26	960	43	750	22	55	67	1	19	26.1	542	1	2	2	44	1	1035
11105	.7	4570	132	4	80	1.6	1	9460	2.2	12	63	37210	2630	1	3610	283	32	680	84	540	14	61	24	1	19	28.7	476	1	1	1	24	1	1240
11106	.5	4520	113	3	76	1.7	1	10930	1.3	14	65	40390	2590	1	4980	375	25	760	43	560	9	58	28	1	18	25.8	433	1	1	1	5	1	1055
11107	.6	3820	88	3	68	1.7	1	12640	7.9	8	56	27010	2270	1	5100	344	29	1180	71	560	13	49	35	1	16	27.7	793	1	2	3	70	1	1065
11108	.7	5270	112	3	86	2.0	1	7120	7.9	10	64	31450	2920	1	1960	190	52	690	96	970	12	68	14	1	17	32.2	851	1	1	1	6	1	1040
11109	.5	3800	124	3	73	1.7	1	6130	7.2	10	63	33350	2240	1	2040	167	53	680	93	360	15	76	12	1	14	19.7	786	1	1	1	13	1	1030
11110	.9	3990	161	4	72	1.5	1	7150	7.9	11	90	39700	2330	1	2520	196	59	710	108	350	17	104	16	1	17	26.3	850	1	1	1	5	1	1335
11111	.6	4190	122	4	74	1.4	1	6770	6.3	10	67	36470	2470	1	2250	182	50	1100	93	370	19	80	13	1	16	21.8	750	1	2	1	3	1	1310
11112	.6	3720	106	4	124	1.6	1	7290	5.6	12	68	41140	2200	1	2210	178	48	580	68	620	22	71	16	1	14	18.3	674	1	2	1	17	1	1130
11113	1.5	3560	130	4	59	1.3	1	14360	2.0	8	52	35190	2440	1	6230	300	10	830	25	210	22	43	47	1	12	20.9	402	1	2	1	23	1	1015
11114	1.0	7280	24	9	99	2.2	1	12780	.1	1	7	9950	4360	4	5890	243	4	230	1	50	16	5	49	7	48	3.3	173	4	1	5	114	1	1
11115	.9	7390	36	6	75	1.8	2	7540	.1	2	9	16390	2880	6	7020	150	10	240	1	30	31	4	32	4	40	2.6	171	4	1	4	102	2	1
11116	.7	19170	18	9	232	3.9	2	8100	.1	2	9	21400	7570	14	12100	180	4	110	1	30	26	1	28	4	69	2.6	157	5	1	2	60	1	1
11117	.9	12850	10	6	124	3.3	2	12930	.1	1	6	11890	5130	8	9130	228	5	130	1	20	23	1	26	4	57	2.4	101	5	1	3	87	1	1
11118	.8	8520	32	5	86	2.3	1	9810	.1	1	5	11560	3640	4	7340	178	5	270	1	30	23	1	38	3	47	2.3	93	4	1	6	165	1	1
11119	.7	12240	21	6	155	4.0	2	4670	.1	1	6	12800	5850	5	6700	120	5	230	1	20	22	1	10	6	64	1.8	145	5	1	4	95	1	10
11120	.5	5470	260	6	193	.6	1	240	.1	3	11	35500	2960	1	820	16	77	1720	1	40	17	49	2	1	20	4.4	49	1	1	3	63	1	165
11121	.4	7250	4																														



**MINERAL  
ENVIRONMENTAL  
LABORATORIES**  
(DIVISION OF ASSAYERS CORP.)

91-69

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
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**VANCOUVER OFFICE:**  
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Assay Certificate

1S-0225-RA1

Company: COPELAND REBAGLIATI & ASSOC.  
Project: 9101  
Attn: MARK REBAGLIATI

Date: AUG-01-91  
Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.  
2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

*We hereby certify the following Assay of 30 ROCK samples submitted JUL-24-91 by RICHARD HASLINGER.*

Sample Number	AU g/tonne	AU oz/ton
11085	.02	.001
11086	.01	.001
11087	.01	.001
11088	.02	.001
11089	.20	.006
11090	.01	.001
11091	.01	.001
11092	.01	.001
11093	.03	.001
11094	.02	.001
11095	.02	.001
11096	.01	.001
11097	.01	.001
11098	.02	.001
11099	.02	.001
11100	.01	.001
11101	.02	.001
11102	.01	.001
11103	.04	.001
11104	.03	.001
11105	.02	.001
11106	.01	.001
11107	.01	.001
11108	.01	.001
11109	.02	.001
11110	.03	.001
11111	.03	.001
11112	.02	.001
11113	.02	.001

Certified by   
MIN-EN LABORATORIES

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-70  
 SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 1048/9 CLAIM # : SIB 12, 35  
 LOCAL GRID : 8851.76 N / 9718.92 E GLOBAL GRID : 13235.20 N / 17757.27 E  
 LENGTH : 94.50 m INCLINATION : -81.0 degrees ELEVATION : 983.54 metres  
 OVERBURDEN : 3.05 m CASING : 3.05 metres AZIMUTH : 114.0 degrees  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/21 DATE DRILLED : 1991/07/20 CORE LOCATION: 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 11120-11170

SUMMARY LOG 91-70

From(m)	To(m)	Field Name (Legend)
0.00	3.05	CASING
3.05	8.00	GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)
8.00	77.50	TURBIDITIC MUDSTONE (3.6) AND SULPHIDIC MUDSTONE AND CHERT (3.5)
77.50	80.50	TUFFACEOUS RHYOLITE (3.9)
80.50	90.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
90.00	93.00	TUFFACEOUS RHYOLITE -PYRITE (3.9Py)
93.00	94.50	RHYOLITE FLOW (AUTOBRECCIATED) (3.8) +/- TUFFACEOUS RHYOLITE (3.9)

94.50 END OF HOLE.

ANALYTICAL HIGHLIGHTS 91-70

From(m)	To(m)	Length(m)	Au g/t	Au Oz/ton	Ag g/t	Ag Oz/ton	% Pb	% Zn
24.40	39.00	14.60	0.49	0.014	0.9	0.03		
39.00	58.00	19.00	1.09	0.032	63.8	1.86		



From(m)	To(m)	-----Description-----
0.00	3.05	CASING
3.05	8.00	GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)

## Lithology

-Greyish black, matrix is siliceous, while fragments are made up of both volcanic and clastic (mudstone type) debris. Rock is 50 - 60% clasts (50% volcanics, 50% silicified mudstone). Pyrite is common and is syngenetic.

## Structure

-Foliated and fractured. Foliation change from 30 degrees at 4.0 metres to 0 degrees to c/a at 6.0 metres. Fault contact from 6.0 - 7.0 metres. Well developed gouge at 7.0, 8.0, 8.2 to 8.7 metres. The Lulu contact is within the fault zones.

## Alteration

-Weak sericite and silica alteration.

## Mineralization

- 1 - 2% syngenetic pyrite common, isolated zones of 5 - 10% pyrite stringer like.

8.00	77.50	TURBIDITIC MUDSTONE (3.6) AND SULPHIDIC MUDSTONE AND CHERT (3.5)
------	-------	--

## Lithology &lt;8.0&gt;-&lt;24.4&gt;

-Black, laminated with sulphidic and rarer chert bands, fair amount of deformation of original bedding due to folding and the major fault zone. Some isolated silt type turbiditic beds from 19.8 - 24.4m. Three top determinations on laminated pyrite beds indicate younging down hole.

## Structure

-Bedding is subparallel to the core axis, variation from 0 - 10 degrees common, but <5 degree measurements dominate. Pyritic laminae are both intact and distorted.

-Fault structure persists to 12.0 metres, and this interval is marked by poor core recoveries and graphitic beds within the mudstone.

-Lower contact defined by a graphitic slip, and quartz - carbonate veining.

## Alteration

-Very weak to weak silica alteration, rock is softer than a 5.0 hardness steel point. Absence of cross-cutting mineralized veinlets.

## Mineralization

- 1 - 1.5% syngenetic pyrite, as defined by the laminae.

- <0.25% epigenetic or metamorphic pyrite.

-Arsenopyrite noted @ 15.5 - 15.65 metres, but other sections appear to have only pyritic sulphide.

From(m)	To(m)	Description
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## Lithology &lt;24.4&gt;-&lt;42.5&gt;

- Mixture of volcanic rich and clastic (mudstone derived) material.
- From 24.4 - 30.5m: 50% volcanic ash and fragments, 50% argillic and mudstone derived material.
- From 30.5 (shear zone) - 34.5m: clastic rich section with 60 - 70% argillic? debris.
- From 34.5 - 42.5m: mixed volcanic and sedimentary components in a pyroclastic setting (volcanic rich and volcanic lean intervals).
- These are sub-divisions within the logged unit. They do not represent individual mappable units.
- Variable mixture of both volcanic and "clastic" components. On close inspection the colour changes are very useful to separate the "mudstone" from the felsic fragmental contribution. This dirty coloured interval has numerous colour, size, and % fragmental change. No one rock type dominates. One interesting feature is the percentage of pyrite, it is high for a volcanic type unit, but is syngenetic.

## Structure

- Foliation or bedding at 35 - 45 degree from 25.5 - 30.0 metres. These more competent rocks have not been as deformed as the mudstone.
- Foliations at 0 - 5 degrees to c/a from 30.0 - 34.5, shear zone. Basically an ash unit, fine to very fine grained.
- Foliations or bedding from 40 - 50 degrees to c/a, between 35.5 - 42.0 metres, within this unit the lithologies are nearly pure volcanic, and bedding is near constant from 36.0 - 40.0 metres.
- Tops still indicate younging down core in some "clastic" rich zones with pyritic laminae.
- Both upper and lower contacts are fairly sharp, marked by graphitic gouge.

## Mineralization

- Syngenetic pyrite is abundant through the whole interval. Average is between 1.5 - 2%. From 24.4 - 25.5m: 25 - 30% pyrite, 25.5 - 27.0m: 5 - 8% pyrite, 27.0 - 28.5m: 4% pyrite, 28.5 - 30.0m: 2% pyrite, 30.0 - 34.5m: 1%, 34.5 - 36.0m: 1.5% pyrite, 36.0 - 40.0m: 1% pyrite, 40.0 - 42.5m: 2% pyrite. Lower contact at 18 degrees to c/a.

## Lithology &lt;42.5&gt;-&lt;80.5&gt;

- See the 8.0 - 24.4 metre description. Sulphidic type mudstone, graphitic partings common. Substantial core recovery losses from 58.0 - 80.5 metres. Related to faulting. Failed to discover any new type sulphide mineralization except for sphalerite from 70 - 72.1 metres, related to carbonate veining.

## Structure

- Younging uphole begins from 50.0 metres. This is not necessarily the hinge zone of the folded structure, because the core recoveries from 42.5 - 50.0 are < 50%, and core surfaces are few.
- Fracturing and shearing from 58.0 - 80.5m. This represents a large fault zone. The major portion of the fault is from 58.0 - 69.20m, and from 72.0 - 79.5 metres.

From(m) To(m) -----Description-----

-The faulting grossly distorts the true thickness, and bedding is subparallel to the core through most of the intervals discussed above.

Mineralization

- Syngenetic and metamorphic pyrite, total of 1 - 2% overall.
- Sphaleritic grains associated with carbonate veins between 70.0 - 72.1 metres.
- Small hairline carbonate veins from 66.4 - 80.5 metres. No large veins noted.

77.50	80.50	TUFFACEOUS RHYOLITE (3.9)
80.50	90.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
90.00	93.00	TUFFACEOUS RHYOLITE -PYRITE (3.9Py)
93.00	94.50	RHYOLITE FLOW (AUTOBRECCIATED) (3.8) +/- TUFFACEOUS RHYOLITE (3.9)

Lithology <80.5>-<94.5>

-Grey-green, siliceous, both flow and breccia textures, thin flows seperated by breccia zones. Fragments of breccia, both round and angular, in an aphanitic silica matrix. There is a very weak sericitic component to the rock, especially in the matrix. Foliated zones have both sericite and chloritic partings.

Structure

-Semi-massive, isolated foliated zones @ 84.7 - 85.5m (sericitic), 90.8 - 92.9 (sericitic - chloritic). These foliations are from 5 - 15 degrees to c/a.

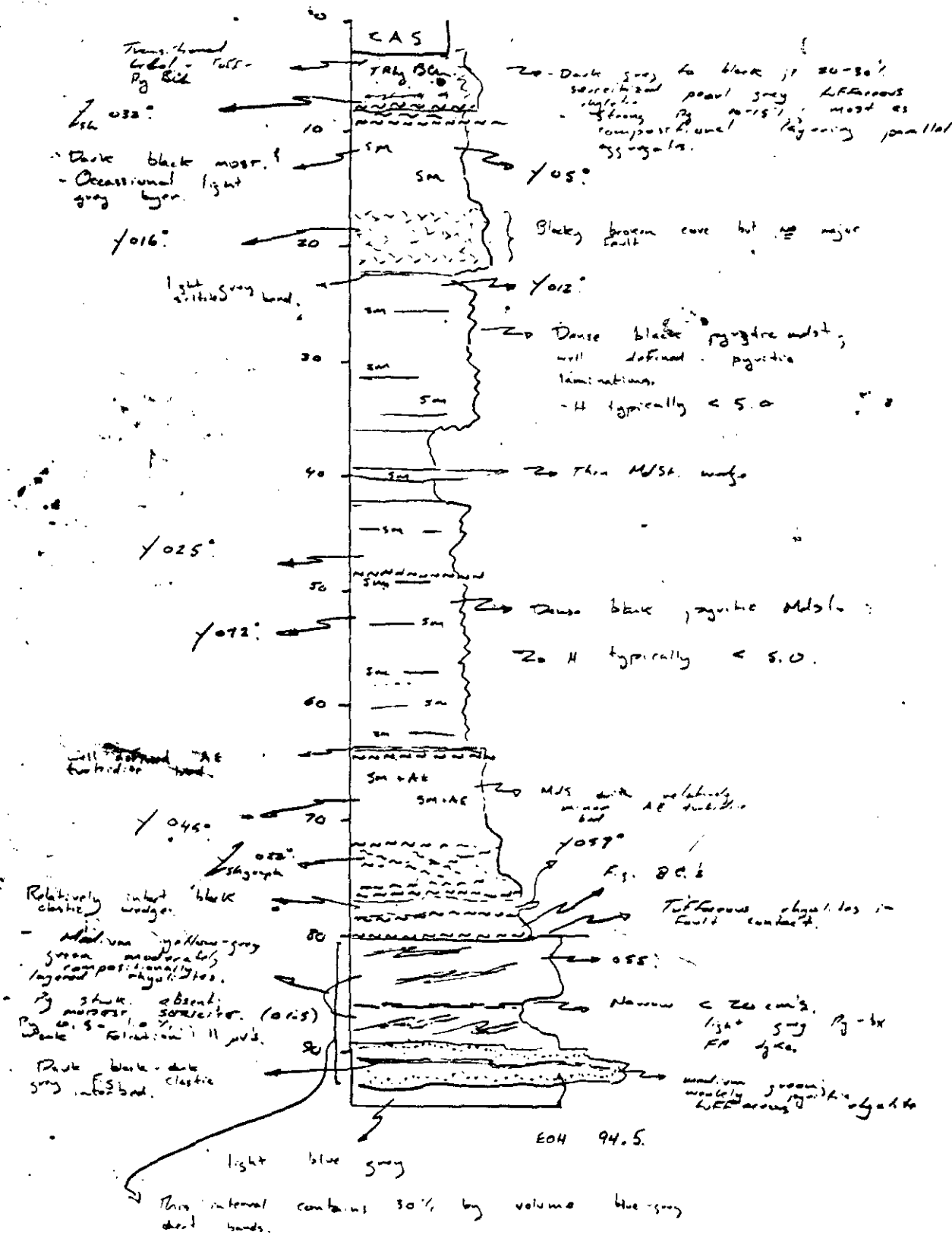
Alteration

- Very weak sericitic alteration, not uniform through the rock, silica overprint? or siliceous rock.
- Hairline to 0.4cm carbonate veins common. Orientation vary, but main set of vein cluster around 50 - 55 degrees. Some surfaces are calcareous. Also isolated quartz - feldspar veinlets common in the flow sections. As above: hairline to 2mm widths.

Mineralization

-Isolated syngenetic pyrite zones <3cm wide. Pyrite here is very fine grained and "smeared over" the surfaces. <0.5% pyrite overall in the unit.

94.50 END OF HOLE.



HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-70	11120	3.05	5.00	1.95	-	-	165	-	-	0.5	260	49	193	-	11	17	49	35500	240
91-70	11121	5.00	8.00	3.00	-	-	164	-	-	0.4	472	40	153	-	17	23	175	32050	10
91-70	11122	8.00	10.00	2.00	-	-	183	-	-	0.7	437	65	260	-	47	21	440	27270	1760
91-70	11123	10.00	12.00	2.00	-	-	102	-	-	0.5	292	70	179	-	48	19	594	26630	2110
91-70	11124	12.00	13.00	1.00	-	-	56	-	-	0.3	945	125	149	-	79	17	404	51050	4780
91-70	11125	13.00	14.00	1.00	-	-	41	-	-	0.4	821	127	166	-	89	15	555	44510	5440
91-70	11126	14.00	15.50	1.50	-	-	20	-	-	0.6	518	143	187	-	91	19	944	36410	5640
91-70	11127	15.50	17.00	1.50	-	-	18	-	-	0.9	691	120	165	-	95	22	1296	42440	10840
91-70	11128	17.00	18.30	1.30	-	-	17	-	-	0.8	449	121	171	-	85	18	934	39540	10470
91-70	11129	18.30	19.80	1.50	-	-	15	-	-	0.8	473	131	169	-	85	18	1109	38830	7550
91-70	11130	19.80	21.00	1.20	-	-	16	-	-	2.0	96	22	25	-	10	4	143	6480	1020
91-70	11131	21.00	23.00	2.00	-	-	6	-	-	1.2	298	110	137	-	73	17	1019	28310	24470
91-70	11132	23.00	24.40	1.40	-	-	183	-	-	2.3	211	90	165	-	55	21	690	22720	54520
91-70	11133	24.40	25.50	1.10	-	-	351	-	-	4.2	465	184	116	-	20	20	203	71740	6850
91-70	11134	25.50	27.00	1.50	-	-	250	-	-	0.6	333	48	264	-	14	15	198	27040	1640
91-70	11135	27.00	28.50	1.50	-	-	382	-	-	0.6	787	44	206	-	9	16	170	26440	5330
91-70	11136	28.50	30.00	1.50	1.77	0.052	1900	-	-	1.4	1832	52	145	-	9	16	119	37830	4480
91-70	11137	30.00	31.50	1.50	-	-	210	-	-	0.8	317	52	167	-	17	17	173	26110	460
91-70	11138	31.50	33.00	1.50	-	-	221	-	-	0.8	328	119	147	-	52	26	667	34830	1020
91-70	11139	33.00	35.00	2.00	-	-	161	-	-	0.6	253	71	154	-	33	29	448	23120	780
91-70	11140	35.00	37.00	2.00	-	-	518	-	-	0.3	1373	60	200	-	12	18	127	28040	240
91-70	11141	37.00	39.00	2.00	-	-	583	-	-	0.4	932	40	324	-	9	17	129	21220	450
91-70	11142	39.00	41.00	2.00	1.00	0.029	1000	1.80	0.05	1.7	1057	56	260	-	8	18	146	28780	270
91-70	11143	41.00	42.50	1.50	1.27	0.037	1090	6.50	0.19	6.6	600	292	169	-	9	20	96	32180	490
91-70	11144	42.50	44.50	2.00	0.80	0.023	-	61.50	1.79	58.4	218	197	101	1400	88	66	808	29000	1970
91-70	11145	44.50	46.50	2.00	1.20	0.035	-	201.20	5.87	188.9	534	344	100	1440	110	100	943	28610	3080
91-70	11146	46.50	48.20	1.70	1.73	0.050	-	139.80	4.08	140.3	577	349	98	1320	116	98	647	36090	2120
91-70	11147	48.20	50.00	1.80	1.00	0.029	-	107.40	3.13	115.5	222	242	73	920	105	69	931	29610	1350
91-70	11148	50.00	51.50	1.50	0.79	0.023	-	80.90	2.36	81.8	135	196	114	900	89	63	582	28290	1140
91-70	11149	51.50	53.00	1.50	0.86	0.025	-	32.10	0.94	32.9	151	129	93	850	72	39	626	24560	1500
91-70	11150	53.00	54.50	1.50	1.15	0.034	-	27.40	0.80	29.2	236	116	67	990	89	21	595	36790	1630
91-70	11151	54.50	56.00	1.50	1.20	0.035	-	13.00	0.38	13.2	675	103	60	1050	90	17	610	33930	2040
91-70	11152	56.00	58.00	2.00	1.00	0.029	-	6.50	0.19	7.2	785	104	60	1140	84	18	931	30170	2290
91-70	11153	58.00	59.10	1.10	0.18	0.005	-	1.00	0.03	1.2	347	79	56	1125	62	10	849	24690	1510
91-70	11154	59.10	60.50	1.40	0.01	0.001	-	-	-	0.4	500	92	55	1400	61	11	492	37760	3400
91-70	11155	60.50	61.90	1.40	0.03	0.001	-	-	-	0.8	299	88	66	1665	78	10	986	37820	5900
91-70	11156	61.90	63.40	1.50	0.01	0.001	-	-	-	1.2	198	93	72	1550	76	17	1086	33070	21590
91-70	11157	63.40	66.40	3.00	0.02	0.001	-	-	-	1.0	155	85	58	1080	86	32	719	41660	6610
91-70	11158	66.40	69.20	2.80	0.02	0.001	-	-	-	0.8	206	50	40	2050	41	25	662	20630	10830
91-70	11159	69.20	72.00	2.80	0.01	0.001	-	-	-	1.2	263	71	76	1770	49	36	559	30610	7350
91-70	11160	72.00	73.50	1.50	0.01	0.001	-	-	-	0.6	165	33	74	825	23	24	211	23510	3750
91-70	11161	73.50	77.50	4.00	0.01	0.001	-	-	-	1.3	171	44	58	1210	62	29	608	39720	11670
91-70	11162	77.50	79.50	2.00	0.02	0.001	-	-	-	1.2	118	29	52	820	53	27	357	29790	8980
91-70	11163	79.50	80.50	1.00	0.01	0.001	-	-	-	1.8	72	30	90	820	61	18	503	24950	15250
91-70	11164	80.50	82.50	2.00	-	-	2	-	-	0.9	26	5	95	-	6	24	105	12660	4990
91-70	11165	82.50	84.50	2.00	-	-	4	-	-	0.5	13	2	96	-	6	16	106	15020	7220
91-70	11166	84.50	86.10	1.60	-	-	2	-	-	0.6	31	3	119	-	9	24	97	35910	14360
91-70	11167	86.10	88.00	1.90	-	-	4	-	-	0.5	24	4	53	-	9	18	93	23010	8340
91-70	11168	88.00	90.00	2.00	-	-	1	-	-	0.6	14	1	72	-	6	20	98	24210	8000
91-70	11169	90.00	92.00	2.00	-	-	2	-	-	0.7	53	5	70	-	18	22	143	27450	8980
91-70	11170	92.00	94.50	2.50	-	-	5	-	-	0.5	17	1	45	-	6	20	122	18770	5590

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M.REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ39+4  
 DATE: 91/10/1  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	B1 PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPM	HG PPM
11076	1.9	8260	135	4	95	1.3	1	10260	.1	11	70	47320	4020	1	3810	410	13	2370	28	990	22	27	18	1	22	30.2	236	1	1	1	2	1	1500
11077	2.6	6260	127	3	78	1.0	1	11780	18.3	7	72	38180	2900	1	4380	424	17	4810	52	1060	34	28	20	1	20	62.4	789	1	2	1	11	1	1680
11078	3.4	7800	83	4	99	1.1	1	15680	37.1	5	70	17580	3790	1	6330	621	16	2640	66	1510	26	23	30	1	26	111.2	1229	1	2	3	40	8	1940
11079	2.5	6840	183	4	100	1.2	1	10460	5.6	7	66	36800	3290	1	3970	414	11	3760	33	920	36	27	19	1	22	40.4	343	1	2	1	13	2	1220
11080	1.7	7440	121	5	99	1.1	1	10090	1.0	8	47	30550	3530	1	3560	394	12	2080	34	1080	21	25	19	1	21	28.9	268	1	1	1	21	4	995
11081	1.1	8590	92	4	212	1.0	1	9560	.8	7	40	26230	3850	2	5340	485	11	2210	21	540	18	20	18	1	22	30.8	263	1	2	1	25	1	830
11082	.5	11780	87	4	116	1.3	1	7440	.1	8	38	29720	3980	7	7380	477	17	3900	22	340	25	23	14	1	25	29.9	179	1	2	1	6	2	800
11083	.6	13610	92	5	153	1.4	1	10350	.1	11	47	34670	4900	5	7490	582	11	160	13	720	13	20	23	1	25	44.1	261	1	2	1	12	1	915
11084	.7	10100	96	4	122	1.1	1	13500	.1	9	47	31240	3870	3	8080	593	9	3580	19	320	34	21	39	1	19	41.0	200	1	1	1	22	3	850
11085	1.6	4160	121	13	69	.6	1	12090	8.0	10	64	26350	2390	6	5520	446	19	750	60	380	24	41	34	2	14	28.5	616	1	3	2	39	1	1215
11086	1.3	3510	134	10	69	.7	1	7430	8.0	9	67	28140	2070	4	2600	325	23	1080	66	330	19	46	16	1	11	23.0	624	1	3	1	22	1	1200
11087	.9	4900	104	8	76	.9	1	12330	2.6	8	45	28610	2620	3	4910	388	14	720	32	340	18	30	49	1	11	19.5	309	1	2	1	24	1	1100
11088	.9	5440	87	6	82	1.3	1	7830	5.7	7	50	23520	2980	2	3020	368	17	940	49	490	15	33	20	1	14	22.3	465	1	3	1	17	1	1045
11089	1.6	4960	1613	7	177	2.0	1	6970	9.7	12	92	41910	2800	3	1880	259	51	770	101	900	16	101	17	1	14	31.7	1236	1	2	1	27	2	2455
11090	.4	5910	133	5	167	3.1	1	870	.1	3	15	19050	3800	1	650	40	58	680	20	140	24	28	4	10	17	2.7	279	1	2	1	17	1	815
11091	.6	5610	129	5	146	2.3	1	1660	1.5	6	41	22440	3440	1	540	94	51	1520	49	360	24	45	5	4	25	15.0	398	1	2	2	67	1	1150
11092	.7	2670	127	3	73	1.3	1	1680	6.5	6	51	20640	1650	1	280	98	34	810	69	430	24	47	4	1	16	16.4	646	1	3	2	55	1	1135
11093	.5	3600	104	3	86	1.7	1	9090	.1	2	8	17610	2290	1	600	95	14	680	4	90	23	14	17	7	19	1.4	152	1	2	3	68	1	680
11094	.8	2830	130	2	70	.8	1	19890	2.3	4	24	14460	1890	1	570	303	18	1100	29	320	15	24	33	3	17	7.7	301	1	3	2	58	1	1045
11095	.8	3960	363	4	96	1.2	1	2300	1.3	11	64	44820	2610	1	400	415	15	580	37	400	11	56	4	1	21	20.6	382	1	2	1	15	1	1955
11096	.7	4340	179	4	100	1.1	1	2950	8.2	9	62	27130	2560	1	450	195	36	650	83	620	15	48	7	1	22	26.5	771	1	2	2	45	1	1595
11097	.7	4090	186	4	227	1.7	1	3650	6.8	9	66	30310	2550	1	790	188	36	720	73	510	15	55	8	1	16	20.0	673	1	2	1	36	1	1480
11098	.9	3930	181	3	124	1.3	1	4120	4.4	8	53	28090	2440	1	860	199	27	740	51	660	16	44	8	1	20	19.0	506	1	2	1	30	1	1280
11099	2.1	190	44	1	9	.1	3	10	.1	1	1	1720	210	2	80	9	2	20	3	30	2	5	1	4	2	2.1	13	8	1	1	8	1	575
11100	.4	3330	200	1	122	1.5	1	4050	.1	1	15	8900	2050	1	2330	113	12	200	6	50	12	12	11	6	28	2.3	127	2	2	4	97	1	365
11101	1.2	3660	161	2	114	1.1	1	3640	3.1	9	56	26930	2410	1	1340	198	17	660	38	290	16	36	9	1	20	20.4	357	1	2	3	77	1	1000
11102	1.9	4240	239	2	99	1.1	1	3430	1.4	8	72	28920	2680	1	1250	215	15	1200	38	300	15	43	8	1	23	24.2	358	1	3	3	62	1	1120
11103	1.7	3680	168	2	91	1.1	1	8170	1.5	8	54	28630	2330	1	1230	267	15	730	34	460	19	41	20	1	18	22.8	294	1	1	3	94	1	1040
11104	1.3	3760	171	4	211	1.5	2	19550	4.3	13	61	38790	2150	1	7800	535	26	960	43	750	22	55	67	1	19	26.1	542	1	2	2	44	1	1035
11105	.7	4570	132	4	80	1.6	1	9460	2.2	12	63	37210	2630	1	3610	283	32	680	84	540	14	61	24	1	19	28.7	476	1	1	1	24	1	1240
11106	.5	4520	113	3	76	1.7	1	10930	1.3	14	65	40390	2590	1	4980	375	25	760	43	560	9	58	28	1	18	25.8	433	1	1	1	5	1	1055
11107	.6	3820	88	3	68	1.7	1	12640	7.9	8	56	27010	2270	1	5100	344	29	1180	71	560	13	49	35	1	16	27.7	793	1	2	3	70	1	1065
11108	.7	5270	112	3	86	2.0	1	7120	7.9	10	64	31450	2920	1	1960	190	52	690	96	970	12	68	14	1	17	32.2	851	1	1	1	6	1	1040
11109	.5	3800	124	3	73	1.7	1	6130	7.2	10	63	33350	2240	1	2040	167	53	680	93	360	15	76	12	1	14	19.7	786	1	1	1	13	1	1030
11110	.9	3990	161	4	72	1.5	1	7150	7.9	11	90	39700	2330	1	2520	196	59	710	108	350	17	104	16	1	17	26.3	850	1	1	1	5	1	1335
11111	.6	4190	122	4	74	1.4	1	6770	6.3	10	67	36470	2470	1	2250	182	50	1100	93	370	19	80	13	1	16	21.8	750	1	2	1	3	1	1310
11112	.6	3720	106	4	124	1.6	1	7290	5.6	12	68	41140	2200	1	2210	178	48	580	68	620	22	71	16	1	14	18.3	674	1	2	1	17	1	1130
11113	1.5	3560	130	4	59	1.3	1	14360	2.0	8	52	35190	2440	1	6230	300	10	830	25	210	22	43	47	1	12	20.9	402	1	2	1	23	1	1015
11114	1.0	7280	24	9	99	2.2	1	12780	.1	1	7	9950	4360	4	5890	243	4	230	1	50	16	5	49	7	48	3.3	173	4	1	5	114	1	1
11115	.9	7390	36	6	75	1.8	2	7540	.1	2	9	16390	2880	6	7020	150	10	240	1	30	31	4	32	4	40	2.6	171	4	1	4	102	1	2
11116	.7	19170	18	9	232	3.9	2	8100	.1	2	9	21400	7570	14	12100	180	4	110	1	30	26	1	28	4	69	2.6	157	5	1	2	60	1	1
11117	.9	12850	10	6	124	3.3	2	12930	.1	1	6	11890	5130	8	9130	228	5	130	1	20	23	1	26	4	57	2.4	101	5	1	3	87	1	1
11118	.8	8520	32	5	86	2.3	1	9810	.1	1	5	11560	3640	4	7340	178	5	270	1	30	23	1	38	3	47	2.3	93	4	1	6	165	1	1
11119	.7	12240	21	6	155	4.0	2	4670	.1	1	6	12800	5850	5	6700	120	5	230	1	20	22	1	10	6	64	1.8	145	5	1	4	95	1	1
11120	.5	5470	260	6	193	.6	1	240	.1	3	11	35500	2960	1	820	16	77	1720	1	40	17	49	2	1	20	4.4	49	1	1	3	63	10	165
11121	.4	7250	472	6	153	.5	1	10	.1	4	17	32050	3800	1	800	11	35	2190	11	60	23	40	1	1	20	9.3	175	1	1				

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

MIN-EN LABS — ICP REPORT  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ41+42  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
11132	2.3	6960	211	5	165	.6	1	54520	7.4	6	55	22720	3500	1	1870	767	44	1940	85	630	21	90	114	1	21	40.4	690	2	1	2	43	183	
11133	4.2	6730	465	8	116	.6	1	6850	.1	7	20	71740	3540	1	1430	76	90	1830	1	70	20	184	19	1	36	9.0	203	1	1	2	72	351	
11134	.6	8200	333	5	264	1.5	1	1640	.1	3	14	27040	4250	2	1130	35	38	100	18	70	15	48	4	1	33	7.7	198	1	1	4	102	250	
11135	.6	7430	787	5	206	1.0	1	5330	.1	3	9	26440	3640	2	1250	79	30	70	5	20	16	44	6	1	25	5.8	170	1	1	4	94	382	
11136	1.4	7510	1832	6	145	.8	1	4480	.1	4	9	37830	3810	2	1130	41	36	70	3	20	16	52	9	1	23	3.4	119	1	1	5	131	1900	
11137	.8	9750	317	7	167	1.8	1	460	.1	3	17	26110	4920	3	1210	37	91	100	13	60	17	52	4	4	25	8.2	173	2	1	3	51	210	
11138	.8	9090	328	8	147	1.5	1	1020	3.0	8	52	34830	4520	2	1070	84	121	80	76	200	26	119	3	2	30	31.1	667	1	1	4	50	221	
11139	.6	8350	253	6	154	1.2	1	780	.1	5	33	23120	4300	2	900	64	92	1940	54	170	29	71	4	2	21	21.4	448	1	1	3	50	161	
11140	.3	5480	1373	5	200	.7	1	240	.1	3	12	28040	2700	1	560	42	65	60	11	30	18	60	3	2	17	4.4	127	1	1	4	87	518	
11141	.4	6100	932	4	324	1.2	1	450	.1	2	9	21220	3080	1	710	42	44	60	7	40	17	40	3	1	17	3.4	129	1	1	4	92	583	
11142	1.7	5370	1057	5	260	1.3	1	270	.1	3	8	28780	2710	1	570	27	31	60	11	50	18	56	3	2	17	2.4	146	1	1	4	101	1000	
11143	6.6	6550	600	5	169	1.0	1	490	.1	4	9	32180	3140	1	660	52	40	60	36	50	20	292	3	2	14	2.1	96	1	1	2	61	1090	
11144	58.4	3250	218	2	101	1.8	1	1970	4.0	7	88	29000	1960	1	540	73	18	1330	45	290	66	197	6	1	11	20.7	808	1	2	1	26	1400	
11145	188.9	4210	534	15	100	2.1	1	3080	9.8	8	110	28610	2320	8	1000	122	25	780	58	340	100	344	9	2	14	32.5	943	1	4	1	26	1440	
11146	140.3	4020	577	9	98	1.8	1	2120	4.7	12	116	36090	2290	4	880	114	53	570	123	190	98	349	7	1	13	26.6	647	1	3	1	14	1320	
11147	115.5	4490	222	6	73	2.1	1	1350	10.1	8	105	29610	2540	2	760	93	22	690	64	140	69	242	4	1	16	34.3	931	1	7	2	38	920	
11148	81.8	4930	135	5	114	1.7	1	1140	4.2	7	89	28290	2770	1	760	91	11	620	36	130	63	196	4	1	17	31.3	582	1	2	1	29	900	
11149	32.9	4180	151	3	93	1.4	1	1500	7.6	7	72	24560	2280	1	520	75	15	530	41	230	39	129	4	1	15	31.9	626	1	3	2	47	850	
11150	29.2	4970	236	3	67	1.7	1	1630	6.5	10	89	36790	2810	1	510	102	13	510	38	350	21	116	4	1	15	31.5	595	1	2	1	16	990	
11151	13.2	4680	675	3	60	1.9	1	2040	7.0	9	90	33930	2540	1	510	99	18	630	47	390	17	103	8	1	12	32.3	610	1	2	1	27	1050	
11152	7.2	4600	785	3	60	2.0	1	2290	10.7	8	84	30170	2580	1	430	78	23	650	70	560	18	104	5	1	13	31.7	931	1	4	1	17	1140	
11153	1.2	4610	347	2	56	2.0	1	1510	8.4	7	62	24690	2610	1	430	74	25	520	70	330	10	79	4	1	14	26.4	849	1	1	1	28	1125	
11154	.4	4560	500	3	55	1.8	1	3400	1.0	10	61	37760	2510	1	440	99	28	580	61	840	11	92	7	1	15	23.9	492	1	2	1	13	1400	
11155	.8	4980	299	3	66	1.8	1	5900	9.1	11	78	37820	2740	1	920	178	40	610	93	710	10	88	10	1	13	36.1	986	1	3	1	11	1665	
11156	1.2	6310	198	4	72	1.3	1	21590	12.2	10	76	33070	3430	1	2070	537	62	710	121	1070	17	93	49	1	15	54.5	1086	1	2	1	14	1550	
11157	1.0	5110	155	3	58	1.8	1	6610	4.3	12	86	41660	2870	1	1570	213	45	1020	89	940	32	85	13	1	16	31.1	719	1	1	1	6	1080	
11158	.8	2490	206	1	40	.8	1	10830	5.6	5	41	20630	1400	1	4480	279	43	550	75	220	25	50	27	1	12	18.3	662	1	3	5	117	2050	
11159	1.2	4830	263	3	76	2.1	1	7350	2.8	7	49	30610	2760	1	2840	167	113	510	132	230	36	71	22	7	18	14.3	559	1	2	1	26	1770	
11160	.6	4320	165	3	74	1.7	1	3750	.1	4	23	23510	2660	1	1390	91	109	520	44	90	24	33	12	8	20	4.8	211	1	2	1	21	825	
11161	1.3	5110	171	3	58	1.5	1	11670	6.5	11	62	39720	2920	1	4410	225	49	510	39	1240	29	44	46	1	14	21.6	608	1	2	1	32	1210	
11162	1.2	4910	118	3	52	1.3	1	8980	1.0	8	53	29790	2920	1	3390	158	27	870	34	400	27	29	34	1	13	18.8	357	1	2	2	57	820	
11163	1.8	4780	72	2	90	1.5	1	15250	6.7	7	61	24950	2740	1	8280	267	18	660	44	430	18	30	94	1	11	29.7	503	1	2	3	70	820	
11164	.9	7430	26	18	95	2.5	1	4990	.1	2	6	12660	3820	10	10300	126	5	110	1	40	24	5	16	3	33	2.5	105	3	1	6	129	2	
11165	.5	8150	13	12	96	2.4	1	7220	.1	2	6	15020	3090	10	11490	151	6	80	1	30	16	2	19	2	37	2.3	106	3	1	4	105	4	
11166	.6	12460	31	11	119	3.9	1	14360	.1	4	9	35910	5100	10	15210	539	6	90	1	80	24	3	31	6	55	4.2	97	3	1	2	34	2	
11167	.5	14680	24	9	53	1.9	1	8340	.1	7	9	23010	2570	17	17960	206	9	170	4	120	18	4	16	1	47	9.4	93	3	1	5	134	4	
11168	.6	17000	14	8	72	2.8	2	8000	.1	3	6	24210	3640	20	18930	201	5	120	1	20	20	1	18	1	38	3.7	98	4	1	4	94	1	
11169	.7	14090	53	8	70	3.6	1	8980	.1	14	18	27450	4160	13	15360	222	7	170	16	240	22	5	23	4	48	18.4	143	5	1	5	103	2	
11170	.5	12330	17	6	45	2.7	1	5590	.1	3	6	18770	2590	15	15410	170	6	130	1	40	20	1	15	3	42	3.2	122	4	1	4	100	5	
11171	.8	6880	271	1	121	.9	2	900	6.6	7	69	25600	2500	3	3320	112	37	550	78	310	22	76	4	1	20	42.2	822	1	1	4	83	1710	
11172	.8	6390	457	2	114	.8	1	430	4.3	10	93	36980	3170	1	820	163	50	680	111	350	24	118	2	1	19	48.9	729	1	2	1	6	2570	
11173	1.1	7270	245	3	154	1.6	1	1860	14.3	13	110	40080	3450	1	930	143	53	590	134	750	30	101	4	1	17	57.1	1226	1	1	1	6	1975	
11174	.2	1970	252	1	152	.8	2	300	.4	3	22	17330	1140	1	320	42	65	460	30	50	15	45	2	2	10	5.8	231	1	2	5	83	1210	
11175	.2	1430	324	1	193	.5	1	560	.1	3	24	13280	800	1	320	60	23	620	46	10	14	40	2	1	10	8.8	240	1	3	8	184	1080	
11176	.2	2610	204	1	119	.8	1	3450	.8	4	30	16140	1380	1	640	91	28	510	45	100	11	46	5	1	13	13.9	296	1	2	6	128	1100	
11177	.2	4720	354	1	87	1.8	1	1240	1.2	6	40	30610	2570	1	580	70	25	580	50	260	16	62	3	1	11	14.7	439	1	2	2	29	1495	
11178	.4	5450	371	2	92	1.7	1	1430	.6	9	63	36430	2930	1	630	117	36	860	77	340	23	105	3	1	17	24.3	443	1	1	1	8	2300	
11179	.5	5020																															



**MIN-EN LABORATORIES**  
 (DIVISION OF ASSAYERS CORP.)

91-70

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
 CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:  
 705 WEST 15TH STREET  
 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
 TELEPHONE (604) 980-5814 OR (604) 988-4524  
 FAX (604) 980-9621

**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Assay Certificate

1S-0224-RA1

Company: COPELAND REBAGLIATI & ASSOC.  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: AUG-01-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., BC  
 2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

*We hereby certify the following Assay of 3 ROCK samples submitted JUL-24-91 by RICHARD HASLINGER.*

Sample Number	AU g/tonne	AU oz/ton
11136	1.77	.052
11142	1.00	.029
11143	1.27	.037
11144	.80	.023
11145	1.20	.035
11146	1.73	.050
11147	1.00	.029
11148	.79	.023
11149	.86	.025
11150	1.15	.034
11151	1.20	.035
11152	1.00	.029
11153	.18	.005
11154	.01	.001
11155	.03	.001
11156	.01	.001
11157	.02	.001
11158	.02	.001
11159	.01	.001
11160	.01	.001
11161	.01	.001
11162	.02	.001
11163	.01	.001

Certified by \_\_\_\_\_

MIN-EN LABORATORIES





**MIN-EN LABORATORIES**  
(DIVISION OF ASSAYERS CORP.)

91-70

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
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705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
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**SMITHERS LAB.:**  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

Assay Certificate

1S-0225-XA1

Company: COPELAND REBAGLIATI & ASSOC.  
Project: 9101  
Attn: MARK REBAGLIATI

Date: AUG-07-91  
Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.  
2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

*We hereby certify* the following Assay of 10 PULP samples submitted AUG-06-91 by MARK REBAGLIATI.

Sample Number	AG g/tonne	AG oz/ton
11142	1.8	.05
11143	6.5	.19
11144	61.5	1.79
11145	201.2	5.87
11146	139.8	4.08
11147	107.4	3.13
11148	80.9	2.36
11149	32.1	.94
11150	27.4	.80
11151	13.0	.38
11152	6.5	.19
11153	1.0	.03

Certified by \_\_\_\_\_

MIN-EN LABORATORIES

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-71  
 SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 1048/9 CLAIM # : SIB 12, 35  
 LOCAL GRID : 8852.31 N / 9716.66 E GLOBAL GRID : 13236.71 N / 17755.50 E  
 LENGTH : 74.40 m INCLINATION : -90.0 degrees ELEVATION : 983.70 metres  
 OVERBURDEN : 3.05 m CASING : 3.05 metres AZIMUTH : Vertical  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/03 DATE DRILLED : 1991/07/29 CORE LOCATION: 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 11171-11233

SUMMARY LOG 91-71

From(m)	To(m)	Field Name (Legend)
0.00	3.05	CASING
3.05	50.90	SULPHIDIC MUDSTONE AND CHERT (3.5) +/- TURBIDITIC MUDSTONE (3.6)
50.90	69.20	TUFFACEOUS RHYOLITE (3.9)
		54.0 - 69.2 TUFFACEOUS RHYOLITE -SERICITE (3.9a)
69.20	74.40	RHYOLITE FLOW (AUTOBRECCIATED) (3.8) +/- TUFFACEOUS RHYOLITE (3.9)
74.40		END OF HOLE.

ANALYTICAL HIGHLIGHTS 91-71

From(m)	To(m)	Length(m)	Au g/t	Au Oz/ton	Ag g/t	Ag Oz/ton	% Pb	% Zn
8.00	9.00	1.00	0.42	0.012	0.2	0.01		
13.00	14.00	1.00	0.36	0.011	0.8	0.02		

From(m)	To(m)	Description
0.00	3.05	CASING
3.05	50.90	SULPHIDIC MUDSTONE AND CHERT (3.5) +/- TURBIDITIC MUDSTONE (3.6)

#### Lithology

-Black, hard, composed of a silt/chert/pyrite and a pyrite/chert member, the pyrite/chert subunit occurs in two layers. From 3.05 - 17.1m (pyrite/chert member); 17.1 - 27.0m (silt/pyrite/chert member); 27.0 - 48.0m (pyrite/chert member); 48.0 - 50.9m (Heterolithic tuff/mudstone member). Laminae are both preserved and deformed. Shearing through unit occurs in more than one place. Younging up hole from 3.05 - 21.0 metres ; younging down hole from 21.0 - 48.0 metres. Possible veining related emplacement from 27.4 - 30.5m, 33.5 - 36.0m. There are also some accumulations of sericitic material derived from volcanic debris. The "debris" is incorporated into the mudstone, and strongly deformed.

#### Structure

-Younging mentioned above. Possibly the hole penetrated the hinge line of a synform.  
 -Bedding variable due to the shearing and other styles of deformation.  
 -6.0m: 40 degrees, 9.0 - 13.0m: 0 - 5 degrees, 13.0 - 15.0m: transposed, 15.0 - 17.0m: 0 - 5 degrees, 17.0 - 22.0m: 15 - 25 degrees, 22.0 - 32.0m: 30 - 50 degrees, 32.0 - 40.0m: 35 - 20 degrees, decreasing, 40.0 - 46.0m: 0 - 10 degrees, 46.0 - 48.0m: 40 - 50 degrees to c/a.  
 -Lost core intervals are related to the sheared intervals. The rock is both blocky and fissile, resulting in recovering problems.  
 -Gouge and graphite developed in numerous zones; 11.4 - 11.8m, 27.2 - 28.0m, 45.0 - 46.0m, 48.0 - 48.5m, 50.5 - 51.0m.  
 -Lower contact sharp, not uniform. Mudstone is "pushed up" onto the overlying volcanics.

#### Alteration

-Silicification, weak to moderate, also the unit may be more cherty and containing more volcanically derived material.

#### Mineralization

-Syngenetic bedded pyrite laminae, 1 - 2% of unit.  
 -Epigenetic; trace, possible "other" sulphides e.g. arsenopyrite, stibnite @ 27.4 - 30.5m and 33.5 - 36.0 metres. But caution is warranted because the veining is microcrystalline to amorphous grey material, resembling both chert or sericitic volcanic material. These ambiguities need to be resolved with petrographic work.  
 -Isolated quartz - feldspar, and quartz - carbonate veins in core. No visible sulphides were detected.

From(m)	To(m)	Description
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50.90	69.20	TUFFACEOUS RHYOLITE (3.9) 54.0 - 69.2 TUFFACEOUS RHYOLITE -SERICITE (3.9a)
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**Lithology**

-Light to medium greenish grey, hard, siliceous, mottled texture due to foliation and alteration imprints, some sections "look" fragmental, but adjacent rocks are flow like. Possibly the unit is a sericitized rhyolitic flow breccia. Sub-interval of mudstone from 57.3 - 58.1m, shear/fault related sliver? Also breccia dykes @ 65.7 - 65.9, and 67.25 - 67.6m.

**Structure**

-Zone of weak to moderate foliation common. Foliation tracks sericite alteration. Foliations average 45 - 50 degrees. Moderately foliated zone from 58.0 - 63.0 has moderate sericitic alteration; and resembles a dacitic tuff, because there is grey-black chloritic partings throughout.  
-Fault contact at 69.2m approximately 40 - 50 degrees to c/a.

**Alteration**

-Sericitization, weak to moderate, some sections moderately sericitized. Silica overprint or siliceous rock. But hardness test fits the silica overprint model.

**Mineralization**

-Unmineralized, quartz veins have trace to 0.25% pyrite at contacts.

69.20	74.40	RHYOLITE FLOW (AUTOBRECCIATED) (3.8) +/- TUFFACEOUS RHYOLITE (3.9)
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**Lithology**

-Grey, siliceous, very hard, fractured, silicified veined. Possibly a phreatic breccia flow.

**Structure**

-Fault from 69.2 - 72.0, gouge zone @ 71.0 metres. Lower contact not clear, upper contact at 45 degrees to c/a.

**Alteration**

-Silicified, due to veining.

**Mineralization**

-Unmineralized, quartz - carbonate veins are barren.

74.40		END OF HOLE.
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HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91-71	11171	3.64	5.00	1.36	0.04	0.001	-	-	-	0.8	271	76	121	1710	69	22	822	25600	900	
91-71	11172	5.00	6.00	1.00	0.03	0.001	-	-	-	0.8	457	118	114	2570	93	24	729	36980	430	
91-71	11173	6.00	7.00	1.00	0.06	0.002	-	-	-	1.1	245	101	154	1975	110	30	1226	40080	1860	
91-71	11174	7.00	8.00	1.00	0.28	0.008	-	-	-	0.2	252	45	152	1210	22	15	231	17330	300	
91-71	11175	8.00	9.00	1.00	0.42	0.012	-	-	-	0.2	324	40	193	1080	24	14	240	13280	560	
91-71	11176	9.00	10.00	1.00	0.20	0.006	-	-	-	0.2	204	46	119	1100	30	11	296	16140	3450	
91-71	11177	10.00	11.00	1.00	0.09	0.003	-	-	-	0.2	354	62	87	1495	40	16	439	30610	1240	
91-71	11178	11.00	12.00	1.00	0.22	0.006	-	-	-	0.4	371	105	92	2300	63	23	443	36430	1430	
91-71	11179	12.00	13.00	1.00	0.17	0.005	-	-	-	0.5	228	75	81	1560	64	15	940	25160	1340	
91-71	11180	13.00	14.00	1.00	0.36	0.011	-	-	-	0.8	323	97	67	1800	82	20	963	34450	2560	
91-71	11181	14.00	15.00	1.00	0.24	0.007	-	-	-	0.5	256	62	48	805	45	14	495	23200	1940	
91-71	11182	15.00	16.00	1.00	0.22	0.006	-	-	-	1.2	380	73	71	830	37	32	468	32250	4930	
91-71	11183	16.00	17.00	1.00	0.03	0.001	-	-	-	0.5	453	121	87	1920	68	17	697	46350	7160	
91-71	11184	17.00	18.00	1.00	0.01	0.001	-	-	-	0.7	125	70	84	1130	56	15	677	22300	6330	
91-71	11185	18.00	19.00	1.00	0.02	0.001	-	-	-	0.5	172	81	132	1250	61	15	580	30680	5770	
91-71	11186	19.00	20.00	1.00	0.02	0.001	-	-	-	0.5	227	93	104	1180	67	16	450	41420	7030	
91-71	11187	20.00	21.00	1.00	0.01	0.001	-	-	-	0.4	140	82	102	1195	56	16	406	37650	5490	
91-71	11188	21.00	22.00	1.00	0.01	0.001	-	-	-	0.4	99	52	103	810	47	16	270	27500	8440	
91-71	11189	22.00	24.00	2.00	0.02	0.001	-	-	-	0.3	130	63	107	915	59	13	294	38450	7430	
91-71	11190	24.00	25.00	1.00	0.03	0.001	-	-	-	0.8	139	58	107	1050	61	17	765	37170	6380	
91-71	11191	25.00	26.00	1.00	0.02	0.001	-	-	-	0.7	104	39	128	1015	49	15	496	33910	7040	
91-71	11192	26.00	27.00	1.00	0.01	0.001	-	-	-	1.7	133	59	125	1645	82	17	966	34180	11290	
91-71	11193	27.00	28.00	1.00	0.03	0.001	-	-	-	1.6	271	71	116	1715	98	16	845	45830	5080	
91-71	11194	28.00	29.00	1.00	0.01	0.001	-	-	-	1.0	129	60	67	970	70	23	731	29600	5830	
91-71	11195	29.00	30.00	1.00	0.04	0.001	-	-	-	0.7	146	51	54	850	48	22	378	27620	2510	
91-71	11196	30.00	31.00	1.00	0.02	0.001	-	-	-	0.8	135	21	75	615	17	35	259	23780	10760	
91-71	11197	31.00	32.00	1.00	0.02	0.001	-	-	-	0.6	153	31	80	1050	32	38	426	21450	4010	
91-71	11198	32.00	33.00	1.00	0.01	0.001	-	-	-	0.7	117	50	181	1010	48	28	587	21840	6390	
91-71	11199	33.00	34.00	1.00	0.01	0.001	-	-	-	0.9	165	73	155	1400	78	26	799	34760	4140	
91-71	11200	34.00	35.00	1.00	0.01	0.001	-	-	-	0.8	148	62	98	1410	79	25	1085	29200	5470	
91-71	11201	35.00	36.00	1.00	0.02	0.001	-	-	-	0.9	118	47	67	920	61	21	762	22520	5590	
91-71	11202	36.00	37.00	1.00	0.02	0.001	-	-	-	0.9	120	46	67	955	54	31	651	23810	4320	
91-71	11203	37.00	38.00	1.00	0.01	0.001	-	-	-	1.3	194	80	77	1345	64	22	518	32150	35090	
91-71	11204	38.00	39.00	1.00	0.02	0.001	-	-	-	1.1	147	85	69	1275	76	13	706	36640	25930	
91-71	11205	39.00	40.00	1.00	0.01	0.001	-	-	-	1.9	167	99	66	1500	93	22	823	34580	57710	
91-71	11206	40.00	41.00	1.00	0.03	0.001	-	-	-	1.5	158	88	92	1550	90	15	852	35840	29800	
91-71	11207	41.00	42.00	1.00	0.02	0.001	-	-	-	1.0	156	85	145	1445	81	13	996	36690	10870	
91-71	11208	42.00	43.00	1.00	0.01	0.001	-	-	-	1.1	157	82	106	1320	77	13	1257	34830	10780	
91-71	11209	43.00	44.00	1.00	0.01	0.001	-	-	-	1.1	136	65	123	1245	68	13	883	35220	11630	
91-71	11210	44.00	45.00	1.00	0.01	0.001	-	-	-	2.3	105	50	79	1200	81	12	1508	24890	7370	
91-71	11211	45.00	46.00	1.00	0.02	0.001	-	-	-	2.3	198	53	66	1190	83	33	436	38790	5390	
91-71	11212	46.00	47.00	1.00	0.02	0.001	-	-	-	2.2	261	108	75	1115	84	122	633	39150	7430	
91-71	11213	47.00	48.00	1.00	0.01	0.001	-	-	-	1.7	149	41	101	810	58	79	318	31820	7770	
91-71	11214	48.00	49.00	1.00	0.02	0.001	-	-	-	1.2	114	31	61	780	48	37	531	20850	5140	
91-71	11215	49.00	50.00	1.00	0.02	0.001	-	-	-	1.0	137	43	60	870	81	25	795	27100	2870	
91-71	11216	50.00	51.00	1.00	0.01	0.001	-	-	-	0.9	131	35	152	1105	62	24	723	23590	8170	
91-71	11217	51.00	52.00	1.00	-	-	1	-	-	0.8	101	10	57	-	10	22	131	11430	16560	
91-71	11218	52.00	53.00	1.00	-	-	1	-	-	1.0	73	7	45	-	7	24	96	8130	22960	
91-71	11219	53.00	54.00	1.00	-	-	2	-	-	0.6	39	4	41	-	6	16	85	6220	14360	
91-71	11220	54.00	55.00	1.00	-	-	3	-	-	0.6	62	5	72	-	6	30	118	14180	5460	
91-71	11221	55.00	55.86	0.86	-	-	1	-	-	0.5	52	2	97	-	6	29	136	20700	1550	

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91-71	11222	55.86	57.00	1.14	-	-	1	-	-	0.8	25	1	106	-	7	28	143	20250	3590	
91-71	11223	57.00	58.00	1.00	-	-	2	-	-	1.1	99	17	95	-	32	39	403	16820	9560	
91-71	11224	58.00	59.00	1.00	-	-	1	-	-	0.8	37	3	82	-	8	31	165	16620	5550	
91-71	11225	59.00	60.00	1.00	-	-	4	-	-	0.8	10	1	49	-	5	27	101	15220	7250	
91-71	11226	60.00	61.00	1.00	-	-	3	-	-	0.7	13	1	49	-	5	23	118	11650	12750	
91-71	11227	61.00	63.00	2.00	-	-	1	-	-	0.9	7	1	109	-	6	24	133	12950	9060	
91-71	11228	63.00	65.00	2.00	-	-	2	-	-	0.7	9	1	71	-	5	22	103	11180	10420	
91-71	11229	65.00	67.00	2.00	-	-	1	-	-	1.0	14	1	80	-	8	25	116	21690	17880	
91-71	11230	67.00	69.00	2.00	-	-	1	-	-	0.7	21	1	90	-	8	27	109	16600	6220	
91-71	11231	69.00	71.00	2.00	-	-	5	-	-	1.2	51	2	138	-	6	33	121	15800	17630	
91-71	11232	71.00	73.00	2.00	-	-	2	-	-	0.7	53	5	46	-	8	24	139	10080	7230	
91-71	11233	73.00	74.37	1.37	-	-	1	-	-	0.8	38	7	17	-	7	23	88	9090	12500	

COMP: COPELAND, REBAGLIATI & ASSOC.

PROJ: 9101

ATTN: M.REBAGLIATI

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

(604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ41+42

DATE: 91/10/17

\* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
11132	2.3	6960	211	5	165	.6	1	54520	7.4	6	55	22720	3500	1	1870	767	44	1940	85	630	21	90	114	1	21	40.4	690	2	1	2	43	183	
11133	4.2	6730	465	8	116	.6	1	6850	.1	7	20	71740	3540	1	1430	76	90	1830	1	70	20	184	19	1	36	9.0	203	1	1	2	72	351	
11134	.6	8200	333	5	264	1.5	1	1640	.1	3	14	27040	4250	2	1130	35	38	100	18	70	15	48	4	1	33	7.7	198	1	1	4	102	250	
11135	.6	7430	787	5	206	1.0	1	5330	.1	3	9	26440	3640	2	1250	79	30	70	5	20	16	44	6	1	25	5.8	170	1	1	4	94	382	
11136	1.4	7510	1832	6	145	.8	1	4480	.1	4	9	37830	3810	2	1130	41	36	70	3	20	16	52	9	1	23	3.4	119	1	1	5	131	1900	
11137	.8	9750	317	7	167	1.8	1	460	.1	3	17	26110	4920	3	1210	37	91	100	13	60	17	52	4	4	25	8.2	173	2	1	3	51	210	
11138	.8	9090	328	8	147	1.5	1	1020	3.0	8	52	34830	4520	2	1070	84	121	80	76	200	26	119	3	2	30	31.1	667	1	1	4	50	221	
11139	.6	8350	253	6	154	1.2	1	780	.1	5	33	23120	4300	2	900	64	92	1940	54	170	29	71	4	2	21	21.4	448	1	1	3	50	161	
11140	.3	5480	1373	5	200	.7	1	240	.1	3	12	28040	2700	1	560	42	65	60	11	30	18	60	3	2	17	4.4	127	1	1	4	87	518	
11141	.4	6100	932	4	324	1.2	1	450	.1	2	9	21220	3080	1	710	42	44	60	7	40	17	40	3	1	17	3.4	129	1	1	4	92	583	
11142	1.7	5370	1057	5	260	1.3	1	270	.1	3	8	28780	2710	1	570	27	31	60	11	50	18	56	3	2	17	2.4	146	1	1	4	101	1000	
11143	6.6	6550	600	5	169	1.0	1	490	.1	4	9	32180	3140	1	660	52	40	60	36	50	20	292	3	2	14	2.1	96	1	1	2	61	1090	
11144	58.4	3250	218	2	101	1.8	1	1970	4.0	7	88	29000	1960	1	540	73	18	1330	45	290	66	197	6	1	11	20.7	808	1	2	1	26	1400	
11145	188.9	4210	534	15	100	2.1	1	3080	9.8	8	110	28610	2320	8	1000	122	25	780	58	340	100	344	9	2	14	32.5	943	1	4	1	26	1440	
11146	140.3	4020	577	9	98	1.8	1	2120	4.7	12	116	36090	2290	4	880	114	53	570	123	190	98	349	7	1	13	26.6	647	1	3	1	14	1320	
11147	115.5	4490	222	6	73	2.1	1	1350	10.1	8	105	29610	2540	2	760	93	22	690	64	140	69	242	4	1	16	34.3	931	1	7	2	38	920	
11148	81.8	4930	135	5	114	1.7	1	1140	4.2	7	89	28290	2770	1	760	91	11	620	36	130	63	196	4	1	17	31.3	582	1	2	1	29	900	
11149	32.9	4180	151	3	93	1.4	1	1500	7.6	7	72	24560	2280	1	520	75	15	530	41	230	39	129	4	1	15	31.9	626	1	3	2	47	850	
11150	29.2	4970	236	3	67	1.7	1	1630	6.5	10	89	36790	2810	1	510	102	13	510	38	350	21	116	4	1	15	31.5	595	1	2	1	16	990	
11151	13.2	4680	675	3	60	1.9	1	2040	7.0	9	90	33930	2540	1	510	99	18	630	47	390	17	103	8	1	12	32.3	610	1	2	1	27	1050	
11152	7.2	4600	785	3	60	2.0	1	2290	10.7	8	84	30170	2580	1	430	78	23	650	70	560	18	104	5	1	13	31.7	931	1	4	1	17	1140	
11153	1.2	4610	347	2	56	2.0	1	1510	8.4	7	62	24690	2610	1	430	74	25	520	70	330	10	79	4	1	14	26.4	849	1	1	1	28	1125	
11154	.4	4560	500	3	55	1.8	1	3400	1.0	10	61	37760	2510	1	440	99	28	580	61	840	11	92	7	1	15	23.9	492	1	2	1	13	1400	
11155	.8	4980	299	3	66	1.8	1	5900	9.1	11	78	37820	2740	1	920	178	40	610	93	710	10	88	10	1	13	36.1	986	1	3	1	11	1665	
11156	1.2	6310	198	4	72	1.3	1	21590	12.2	10	76	33070	3430	1	2070	537	62	710	121	1070	17	93	49	1	15	54.5	1086	1	2	1	14	1550	
11157	1.0	5110	155	3	58	1.8	1	6610	4.3	12	86	41660	2870	1	1570	213	45	1020	89	940	32	85	13	1	16	31.1	719	1	1	1	6	1080	
11158	.8	2490	206	1	40	.8	1	10830	5.6	5	41	20630	1400	1	4480	279	43	550	75	220	25	50	27	1	12	18.3	662	1	3	5	117	2050	
11159	1.2	4830	263	3	76	2.1	1	7350	2.8	7	49	30610	2760	1	2840	167	113	510	132	230	36	71	22	7	18	14.3	559	1	2	1	26	1770	
11160	.6	4320	165	3	74	1.7	1	3750	.1	4	23	23510	2660	1	1390	91	109	520	44	90	24	33	12	8	20	4.8	211	1	2	1	21	825	
11161	1.3	5110	171	3	58	1.5	1	11670	6.5	11	62	39720	2920	1	4410	225	49	510	39	1240	29	44	46	1	14	21.6	608	1	2	1	32	1210	
11162	1.2	4910	118	3	52	1.3	1	8980	1.0	8	53	29790	2920	1	3390	158	27	870	34	400	27	29	34	1	13	18.8	357	1	2	2	57	820	
11163	1.8	4780	72	2	90	1.5	1	15250	6.7	7	61	24950	2740	1	8280	267	18	660	44	430	18	30	94	1	11	29.7	503	1	2	3	70	820	
11164	.9	7430	26	18	95	2.5	1	4990	.1	2	6	12660	3820	10	10300	126	5	110	1	40	24	5	16	3	33	2.5	105	3	1	6	129	2	
11165	.5	8150	13	12	96	2.4	1	7220	.1	2	6	15020	3090	10	11490	151	6	80	1	30	16	2	19	2	37	2.3	106	3	1	4	105	4	
11166	.6	12460	31	11	119	3.9	1	14360	.1	4	9	35910	5100	10	15210	539	6	90	1	80	24	3	31	6	55	4.2	97	3	1	2	34	2	
11167	.5	14680	24	9	53	1.9	1	8340	.1	7	9	23010	2570	17	17960	206	9	170	4	120	18	4	16	1	47	9.4	93	3	1	5	134	4	
11168	.6	17000	14	8	72	2.8	2	8000	.1	3	6	24210	3640	20	18930	201	5	120	1	20	20	1	18	1	38	3.7	98	4	1	4	94	1	
11169	.7	14090	53	8	70	3.6	1	8980	.1	14	18	27450	4160	13	15360	222	7	170	16	240	22	5	23	4	48	18.4	143	5	1	5	103	2	
11170	.5	12330	17	6	45	2.7	1	5590	.1	3	6	18770	2590	15	15410	170	6	130	1	40	20	1	15	3	42	3.2	122	4	1	4	100	5	
11171	.8	6880	271	1	121	.9	2	900	6.6	7	69	25600	2500	3	3320	112	37	550	78	310	22	76	4	1	20	42.2	822	1	1	4	83	1710	
11172	.8	6390	457	2	114	.8	1	430	4.3	10	93	36980	3170	1	820	163	50	680	111	350	24	118	2	1	19	48.9	729	1	2	1	6	2570	
11173	1.1	7270	245	3	154	1.6	1	1860	14.3	13	110	40080	3450	1	930	143	53	590	134	750	30	101	4	1	17	57.1	1226	1	1	1	6	1975	
11174	.2	1970	252	1	152	.8	2	300	.4	3	22	17330	1140	1	320	42	65	460	30	50	15	45	2	2	10	5.8	231	1	2	5	83	1210	
11175	.2	1430	324	1	193	.5	1	560	.1	3	24	13280	800	1	320	60	23	620	46	10	14	40	2	1	10	8.8	240	1	3	8	184	1080	
11176	.2	2610	204	1	119	.8	1	3450	.8	4	30	16140	1380	1	640	91	28	510	45	100	11	46	5	1	13	13.9	296	1	2	6	128	1100	
11177	.2	4720	354	1	87	1.8	1	1240	1.2	6	40	30610	2570	1	580	70	25	580	50	260	16	62	3	1	11	14.7	439	1	2	2	29	1495	
11178	.4	5450	371	2	92	1.7	1	1430	.6	9																							



COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M.REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ43+4  
 DATE: 91/10/1  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
11188	.4	6780	99	6	103	1.1	1	8440	.6	9	47	27500	3230	4	6030	321	19	1090	61	460	16	52	32	1	13	24.8	270	2	2	2	32	810	
11189	.3	7300	130	6	107	1.2	1	7430	.1	13	59	38450	3170	5	7060	372	19	730	32	700	13	63	25	1	17	31.5	294	1	2	1	16	915	
11190	.8	6730	139	6	107	1.4	1	6380	5.7	10	61	37170	3390	3	5220	304	24	630	61	470	17	58	21	1	20	38.2	765	1	1	1	1	1050	
11191	.7	6960	104	5	128	1.4	1	7040	3.3	8	49	33910	3750	2	5020	328	16	660	36	400	15	39	20	1	16	23.1	496	1	2	1	7	1015	
11192	1.7	8130	133	6	125	1.3	1	11290	11.9	10	82	34180	4270	2	3800	354	23	910	65	2320	17	59	28	1	28	51.8	966	1	2	1	13	1645	
11193	1.6	6870	271	5	116	1.4	1	5080	9.0	12	98	45830	3970	1	2200	260	20	540	51	470	16	71	13	1	22	36.6	845	1	2	2	26	1715	
11194	1.0	3770	129	4	67	1.1	1	5830	5.9	9	70	29600	2300	1	690	157	35	690	64	460	23	60	18	1	23	24.5	731	1	2	3	76	970	
11195	.7	3100	146	3	54	.8	1	2510	2.7	9	48	27620	1880	1	360	113	35	570	68	500	22	51	5	1	22	17.0	378	1	1	6	152	850	
11196	.8	3980	135	3	75	1.7	2	10760	.1	3	17	23780	2690	1	570	289	27	580	16	140	35	21	8	7	22	3.7	259	1	3	2	53	615	
11197	.6	4390	153	3	80	1.4	1	4010	.8	5	32	21450	2790	1	560	113	26	1670	42	310	38	31	7	5	23	8.8	426	1	1	3	78	1050	
11198	.7	2450	117	3	181	.7	1	6390	5.0	6	48	21840	1540	1	370	135	47	690	91	560	28	50	11	1	18	15.8	587	1	2	3	78	1010	
11199	.9	4480	165	4	155	1.1	1	4140	6.9	11	78	34760	2810	1	650	258	46	630	93	840	26	73	8	1	26	25.6	799	1	1	2	54	1400	
11200	.8	4960	148	4	98	1.1	1	5470	10.6	10	79	29200	3000	1	770	268	41	700	94	830	25	62	9	1	28	30.3	1085	1	1	1	32	1410	
11201	.9	3620	118	3	67	1.1	1	5590	8.3	7	61	22520	2230	1	620	128	43	600	85	600	21	47	12	1	22	27.6	762	1	2	3	76	920	
11202	.9	3820	120	3	67	1.3	1	4320	4.7	7	54	23810	2410	1	660	109	40	500	71	540	31	46	11	2	23	17.3	651	1	9	2	52	955	
11203	1.3	4930	194	4	77	1.3	2	35090	2.8	9	64	32150	3100	1	1440	659	54	540	98	1040	22	80	86	2	25	22.5	518	2	1	3	58	1345	
11204	1.1	4290	147	4	69	1.3	1	25930	5.9	14	76	36640	2740	1	1600	624	54	480	111	1260	13	85	37	1	18	27.4	706	1	2	2	33	1275	
11205	1.9	4560	167	5	66	1.4	2	57710	9.3	13	93	34580	2690	1	1630	1481	56	890	114	950	22	99	53	1	24	35.0	823	1	1	1	11	1500	
11206	1.5	6240	158	5	92	1.3	1	29800	7.8	12	90	35840	3730	1	1480	780	71	540	142	1170	15	88	39	1	28	43.0	852	1	1	2	38	1550	
11207	1.0	7050	156	5	145	1.3	1	10870	9.3	12	81	36690	3900	1	1660	246	71	580	126	2190	13	85	21	1	30	49.0	996	1	1	1	8	1445	
11208	1.1	7130	157	5	106	1.6	1	10780	13.1	13	77	34830	3920	1	1840	245	71	530	127	2290	13	82	20	1	32	55.0	1257	1	1	1	17	1320	
11209	1.1	4620	136	4	123	1.7	1	11630	10.2	11	68	35220	2840	1	1560	324	33	520	88	570	13	65	17	1	20	24.5	883	1	2	1	9	1245	
11210	2.3	4250	105	3	79	1.6	1	7370	24.5	8	81	24890	2660	1	1690	222	20	670	69	310	12	50	21	1	17	31.0	1508	1	2	2	45	1200	
11211	2.3	3710	198	3	66	1.9	1	5390	3.5	10	83	38790	2480	1	1360	234	16	580	36	320	33	53	9	1	15	21.0	436	1	2	1	25	1190	
11212	2.2	4580	261	18	75	2.0	1	7430	7.1	12	84	39150	2780	10	2380	277	28	530	65	430	122	108	16	2	26	26.8	633	1	2	1	11	1115	
11213	1.7	7630	149	11	101	2.5	2	7770	1.7	8	58	31820	3540	9	4520	269	13	410	23	400	79	41	13	1	30	29.0	318	1	4	2	44	810	
11214	1.2	4690	114	6	61	1.7	1	5140	3.9	6	48	20850	2490	4	1900	125	19	410	44	280	37	31	12	2	20	20.9	551	1	2	3	87	780	
11215	1.0	3000	137	2	60	1.1	1	2870	7.3	9	81	27100	1870	1	320	108	39	460	88	750	25	43	6	1	22	21.2	795	1	8	3	90	870	
11216	.9	3220	131	2	152	1.2	1	8170	5.4	7	62	23590	2050	1	560	144	38	540	82	590	24	35	25	1	21	19.8	723	1	3	3	74	1105	
11217	.8	3980	101	4	57	1.1	1	16560	.1	1	10	11430	2170	1	1550	176	8	410	1	100	22	10	37	4	43	2.6	131	1	1	3	53	1	
11218	1.0	3040	73	3	45	1.2	1	22960	.1	1	7	8130	1760	1	1300	209	10	240	1	70	24	7	40	3	40	1.6	96	2	1	6	137	1	
11219	.6	2830	39	3	41	.9	1	14360	.1	1	6	6220	1450	1	1470	138	5	320	3	60	16	4	30	1	31	1.8	85	2	1	5	113	2	
11220	.6	6430	62	4	72	2.1	1	5460	.1	2	6	14180	2870	4	4040	92	14	160	1	50	30	5	12	1	33	1.3	118	3	1	4	92	3	
11221	.5	13660	52	5	97	3.8	1	1550	.1	2	6	20700	4550	11	10380	142	28	150	1	90	29	2	5	2	48	1.6	136	4	1	2	40	1	
11222	.8	17250	25	5	106	4.7	2	3590	.1	2	7	20250	5160	16	14330	233	19	90	1	60	28	1	9	3	52	2.1	143	5	1	3	80	1	
11223	1.1	6010	99	4	95	2.1	1	9560	2.2	4	32	16820	3060	3	4320	167	29	2440	40	300	39	17	28	1	31	15.2	403	2	1	4	75	2	
11224	.8	11700	37	4	82	3.9	1	5550	.1	2	8	16620	4420	9	9510	233	6	110	1	40	31	3	14	4	38	2.0	165	5	1	3	73	1	
11225	.8	8270	10	4	49	3.2	1	7250	.1	2	5	15220	2980	8	15830	236	1	70	1	30	27	1	19	1	20	2.3	101	3	1	2	49	4	
11226	.7	7170	13	3	49	3.0	1	12750	.1	2	5	11650	2830	6	14830	298	4	90	1	40	23	1	24	1	18	2.5	118	3	1	5	130	3	
11227	.9	12540	7	4	109	3.1	1	9060	.1	2	6	12950	3750	11	14840	204	2	100	1	40	24	1	17	2	39	3.4	133	4	1	3	64	1	
11228	.7	13440	9	4	71	2.7	2	10420	.1	2	5	11180	3640	13	12790	196	5	130	1	30	22	1	18	1	45	2.7	103	4	1	6	147	2	
11229	1.0	19460	14	5	80	4.0	1	17880	.1	5	8	21690	4700	18	18580	622	3	130	2	60	25	1	31	2	49	9.0	116	5	1	3	60	1	
11230	.7	17450	21	4	90	4.7	2	6220	.1	5	8	16600	5320	14	13730	223	4	100	4	40	27	1	16	1	51	5.4	109	5	1	4	85	1	
11231	1.2	11870	51	4	138	2.7	2	17630	.1	3	6	15800	3320	11	17300	413	1	160	1	50	33	2	65	2	35	4.5	121	4	1	4	91	5	
11232	.7	4940	53	3	46	1.7	1	7230	.1	1	8	10080	2320	2	4150	114	6	320	1	30	24	5	27	3	42	1.9	139	3	1	5	134	2	
11233	.8	1840	38	1	17	.3	1	12500	.1	2	7	9090	600	1	4960	150	7	750	2	40	23	7	46	1	31	2.4	88	2	1	11	263	1	
11246	2.5	4030	249	8	267	.8	1	2380	.1	4	20	25030	2110	1	770	57	27	450	41	90	21	88	5	1	23	14.3	299	1	3	5	110	1650	
11247	3.6	2320																															



**MIN-EN LABORATORIES**  
(DIVISION OF ASSAYERS CORP.)

91-71

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:  
1705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
FAX (604) 980-9621

**SMITHERS LAB.:**  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

Assay Certificate

1S-0225-RA2

Company: COPELAND REBAGLIATI & ASSOC.  
Project: 9101  
Attn: MARK REBAGLIATI

Date: AUG-01-91  
Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.  
2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

We hereby certify the following Assay of 30 ROCK samples submitted JUL-24-91 by RICHARD HASLINGER.

Sample Number	AU g/tonne	AU oz/ton
11171	.04	.001
.1172	.03	.001
.1173	.06	.002
11174	.28	.008
.1175	.42	.012
.1176	.20	.006
11177	.09	.003
.1178	.22	.006
.1179	.17	.005
11180	.36	.011
.1181	.24	.007

Certified by *Ben J. Smith*

MIN-EN LABORATORIES



**MIN-EN LABORATORIES**  
 (DIVISION OF ASSAYERS CORP.)

91-71

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
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**SMITHERS LAB.:**  
 3178 TATLOW ROAD  
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 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Assay Certificate

1S-0225-RA3

Company: COPELAND REBAGLIATI & ASSOC.  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: AUG-01-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.  
 2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

We hereby certify the following Assay of 30 ROCK samples submitted JUL-24-91 by RICHARD HASLINGER.

Sample Number	AU g/tonne	AU oz/ton
11182	.22	.006
11183	.03	.001
11184	.01	.001
11185	.02	.001
11186	.02	.001
11187	.01	.001
11188	.01	.001
11189	.02	.001
11190	.03	.001
11191	.02	.001
11192	.01	.001
11193	.03	.001
11194	.01	.001
11195	.04	.001
11196	.02	.001
11197	.02	.001
11198	.01	.001
11199	.01	.001
11200	.01	.001
11201	.02	.001
11202	.02	.001
11203	.01	.001
11204	.02	.001
11205	.01	.001
11206	.03	.001
11207	.02	.001
11208	.01	.001
11209	.01	.001
11210	.01	.001
11211	.02	.001

Certified by 

MIN-EN LABORATORIES



**ENVIRONMENTAL LABORATORIES**  
 (DIVISION OF ASSAYERS CORP.)

91-71

705 WEST 15TH STREET  
 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
 TELEPHONE (604) 980-5814 OR (604) 988-4524  
 FAX (604) 980-9621

**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
 CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

Assay Certificate

1S-0225-RA4

Company: COPELAND REBAGLIATI & ASSOC.  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: AUG-01-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.  
 2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

We hereby certify the following Assay of 5 ROCK samples submitted JUL-24-91 by RICHARD HASLINGER.

Sample Number	AU g/tonne	AU oz/ton
11212	.02	.001
11213	.01	.001
11214	.02	.001
11215	.02	.001
11216	.01	.001

Certified by   
 MIN-EN LABORATORIES

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AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-72

SIB PROPERTY DIAMOND DRILL LOG

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NTS MAP # : 104B/9	CLAIM # : SIB 12, 35	
LOCAL GRID : 8831.76 N / 9728.90 E	GLOBAL GRID : 13212.85 N / 17757.18 E	
LENGTH : 57.00 m	INCLINATION : -72.00 degrees	ELEVATION : 978.43 metres
OVERBURDEN : 3.05 m	CASING : 3.05 metres	AZIMUTH : 294.5 degrees
LOGGED BY : Paul Lawnikanis	DRILLED BY : J.T. Thomas	ASSAYING BY : Min-En Labs
DATE LOGGED : 1991/07/22	DATE DRILLED : 1991/07/22	CORE LOCATION: 86+30 N, 96+70 E
Y/M/D	Y/M/D	SAMPLE NO. SERIES : 11234-11280

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SUMMARY LOG 91-72

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From(m)	To(m)	Field Name (Legend)
0.00	3.05	CASING
3.05	12.45	SULPHIDIC MUDSTONE AND CHERT (3.5)
12.45	24.10	TUFFACEOUS RHYOLITE (3.9) +/- GREEN BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)
24.10	29.30	BLACK CHERT - CHERT BRECCIA -PYRITE (3.3py) +/- BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)
29.30	30.00	MASSIVE SULPHIDE - BARITE VEIN
30.00	33.50	SULPHIDIC MUDSTONE AND CHERT (3.5)
33.50	36.60	MASSIVE SULPHIDE - BARITE VEIN
36.60	52.20	SULPHIDIC MUDSTONE AND CHERT (3.5)
52.20	57.00	RHYOLITE FLOW (AUTOBRECCIATED) (3.8) +/- TUFFACEOUS RHYOLITE (3.9)
57.00		END OF HOLE.

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ANALYTICAL HIGHLIGHTS 91-72

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From(m)	To(m)	Length(m)	Au g/t	Au Oz/ton	Ag g/t	Ag Oz/ton	% Pb	% Zn
21.50	23.70	2.20	0.99	0.029	2.4	0.07		
27.00	29.00	2.00	1.04	0.031	19.5	0.57		
29.00	37.00	8.00	10.61	0.310	802.4	23.40		
37.00	39.00	2.00	4.91	0.143	22.2	0.65		
39.00	41.00	2.00	1.32	0.038	36.7	1.07		

From(m)	To(m)	Description
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0.00	3.05	CASING
3.05	12.45	SULPHIDIC MUDSTONE AND CHERT (3.5)

## Lithology

-Black, siliceous, laminated, volcanic components common from 3.0 - 6.0, and 10.8 - 11.8m. Primarily a sulphidic mudstone with younging down hole. Younging direction not certain, because the laminae are not well developed.

## Structure

-Bedding at 35 - 40 degrees to c/a, consistent, lower contact well defined at 42 degrees to c/a.

## Alteration

-Weakly silicified.

## Mineralization

-Syngenetic pyrite commonly ranges from 1 - 1.5%. No epigenetic pyrite noted.

12.45	24.1	TUFFACEOUS RHYOLITE (3.9) +/- GREEN BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)
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## Lithology

-Dark grey, with some medium grey sections are more volcanic rich; dark grey from 12.45 - 13.0; 14.8 - 16.0; 21.34 - 23.0; 23.0 - 27.7 (light grey); 23.7 - 24.1 - very dark grey to black. Unit is marked by a consistent 1 - 2% pyrite percentage; and 3 - 5% sericitic type volcanic material. Unit is dominated by ash and fine fragmentals; and the mudstone (argillaceous?) components. It is possible that this entire interval is representative of the sequence: Mudstone -Heterolithic tuff -mudstone, but in this specific hole the upper mudstone is absent (eroded out).

## Structure

-Bedding and foliation common; with c/a angles of 40 - 50 degrees; angles change toward the lower contact. Major fault occurs in the lower mudstone interval.

-Smaller parasitic folds of lower angles common in the tuff.

## Alteration

-Weak silicification.

## Mineralization

-Pyrite of syngenetic origin averages 2 - 3% throughout the unit; smaller, <10cm, 10 - 25% pyritic bands present. Due to both compaction and small scale deformation, the pyrite is stretched out around clasts.

From(m)	To(m)	Description
24.10	29.30	BLACK CHERT - CHERT BRECCIA -PYRITE (3.3Py) +/- BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)
29.30	30.00	MASSIVE SULPHIDE - BARITE VEIN
30.00	33.50	SULPHIDIC MUDSTONE AND CHERT (3.5)
33.50	36.60	MASSIVE SULPHIDE - BARITE VEIN
36.60	52.20	SULPHIDIC MUDSTONE AND CHERT (3.5)

#### Lithology

-Two types noted: 24.1 - 47.0 is a pyrite / chert dominated -laminated mudstone, while the 47.0 - 52.2 interval is a pyrite / siltstone / chert dominated mudstone. Textures and structures are similar to all other mudstone type intersections, with younging downhole. Mineralized section from 24.5 - 39.0?; noted abundant arsenopyrite within a pyritic matre, which is in turn surrounding the mudstone clasts. This appears to be a fault structure with silicification, then epigenetic mineralization. The mudstone below the 39.0? metre mark is unmineralized epigenetically. See mineralization.

#### Structure

-Major fault from 27.0 - 28.0m. Fractured / broken core persists to 41.0m., graphitic partings and thin / hairline calcareous veins common to 38.0 metres.  
 -Bedding / foliation returns to more consistant attitudes below 41.0 metres. Angles of 38 - 43 degrees common. Younging is downhole.  
 -Lower contact is sharp; marked by another fault at 52.2m (Juxtaposition of rhyolitic flow material with mudstone).

#### Alteration

-Weak to moderate silicification.

#### Mineralization

-Fault related from 38.0 - 39.0m; there are numerous pyrite rich veins in fractured, silicified mudstone. These massive pyrite veins have embedded acicular arsenopyrite within the pyritic masse. This type of occurrence is vein related, mudstone hosted mineralization. The percentage of sulphides from 38.0 - 39.0m is 5 - 10%, concentrated from 38.0 - 38.4 metres. Arsenopyrite constitutes 1 - 2% of the pyritic veins. Another sulphide in the contacts appears to be stibnite.

-Syngenetic: 1 - 2% pyrite in the laminaes and in the mudstone.

For references: samples 11264, 11265 (38.0 - 39.0) and 11266 should be compared to the description above.

<24.1>-<29.3>

-Black mudstone with pyrite rich laminaes 1mm - 3cm thick, 75% mudstone, 25% pyritic laminaes. About 5% pyrite throughout interval.

-Laminaes parallel moderate foliation: 35 degrees to c/a @ 24.5m  
 20 degrees to c/a @ 27.0m

-Highly fractured towards bottom of interval. Abundant graphitic foliation and shear planes.

-1mm - 2cm thick quartz (95%) - feldspar (5%) stringers and veins comprise 30% of interval 28.0 - 28.5m.

From(m)	To(m)	Description
		<p>-Veins at 20 - 35 degrees to c/a with occasional pyrite selvages. Up to 2mm clusters of stibnite with quartz vein @ 28.25m. Trace amounts.</p> <p>&lt;29.3&gt;-&lt;30.0&gt; Stibnite, Calcite, Ruby Silver, Quartz vein,</p> <p>-Foliated and brecciated blue-grey massive stibnite with black mudstone clasts followed by calcite rich matrix with 15% stibnite, 5% ruby silver. Overall 25% stibnite.</p> <p>-Foliation at 40% to c/a.</p> <p>-Upper contact at 60 degrees to c/a. Lower contact brecciated.</p> <p>-2 - 3% pyrite throughout -fine disseminations. No V.G.</p> <p>-Note: vein soft -cuts easy -cored well. Better recovery than surrounding sediments.</p> <p>&lt;30.00&gt;-&lt;33.5&gt;</p> <p>-Massive grey tuff 30.1 - 32.6 with very fine grained pyrite throughout. Black mudstone interbedded and brecciated at top and bottom of interval. Hard brittle unit with quartz stringers (5%) throughout. Trace light green to white mineral with stringers (sericite).</p> <p>-30.3 Graded bedding, tops down hole. Bedding at 73 degrees to c/a</p> <p>-32.2 Bedding 70 - 80 degrees to c/a.</p> <p>-33.0 Bedding at 20 degrees to c/a. Increased shearing at bottom of the interval -higher mudstone content.</p> <p>&lt;33.5&gt;-&lt;36.6&gt; Stibnite - Barite Vein</p> <p>-Laminated, locally massive and contorted alternating layers of stibnite and barite(?) with some black graphitic partings.</p> <p>-34.5 - 34.6m -85% stibnite with contacts to c/a approximately 25 degrees. Adjacent barite layers folded. Orienting core foliation with regional foliation gives near vertical vein orientation. Overall 30% stibnite.</p> <p>-Ruby Silver occurs at upper contact crossing into upper mudstone in 3cm wide later quartz veins. Trace fine disseminated pyrite locally.</p> <p>-34.0 Layering 40 degrees to c/a</p> <p>34.5 Layering 40 degrees to c/a</p> <p>35.0 Layering 0 degrees to c/a</p> <p>35.5 Layering 25 degrees to c/a</p> <p>36.0 Layering 0 degrees to c/a</p> <p>36.6 Graphitic, sheared lower contact and layering at 23 degrees to c/a</p> <p>35.4 1 V.G.</p>

52.20 57.00 RHYOLITE FLOW (AUTOBRECCIATED) (3.8) +/- TUFFACEOUS RHYOLITE (3.9)

#### Lithology

- Grey, massive, siliceous, hard, uniform, except for the criss-crossing hairline quartz veins -due to rock fracturing.

#### Structure

-Faulted from 52.2 - 53.2 metres. Lost 50cm of core between 52.2 and 52.7m. Brittle fracture fault, possibly a splay off the larger fault.

#### Alteration, Mineralization

-Silicified, unmineralized; fault zone weakly calcareous.

57.00 END OF HOLE.





## AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

## - SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-72	11246	3.04	4.00	0.96	0.03	0.001	-	-	-	2.5	249	88	267	1650	20	21	299	25030	2380
91-72	11247	4.00	5.00	1.00	0.01	0.001	-	-	-	3.6	120	71	288	1330	10	17	210	7850	1240
91-72	11248	5.00	6.00	1.00	0.02	0.001	-	-	-	1.3	442	83	251	1335	24	22	370	15280	1160
91-72	11249	6.00	7.00	1.00	0.02	0.001	-	-	-	1.1	309	75	182	1050	31	23	410	21460	2230
91-72	11250	7.00	8.00	1.00	0.01	0.001	-	-	-	1.1	352	101	207	1740	56	16	819	31150	1510
91-72	11251	8.00	9.00	1.00	0.01	0.001	-	-	-	0.6	265	113	198	1695	77	17	801	36990	3340
91-72	11252	9.00	10.00	1.00	0.02	0.001	-	-	-	0.9	240	95	198	1550	73	20	834	34690	6000
91-72	11253	10.00	11.00	1.00	0.02	0.001	-	-	-	1.0	172	93	177	1450	60	29	901	24680	4440
91-72	11254	11.00	12.45	1.45	0.02	0.001	-	-	-	0.4	350	71	218	1130	23	24	331	35000	3810
91-72	11255	12.45	14.00	1.55	-	-	2	-	-	0.8	398	43	162	-	11	22	214	33300	6990
91-72	11256	14.00	15.50	1.50	-	-	4	-	-	1.1	124	28	254	-	7	20	231	14280	4220
91-72	11257	15.50	17.00	1.50	-	-	1	-	-	0.8	271	32	204	-	4	20	169	34290	6730
91-72	11258	17.00	18.50	1.50	-	-	5	-	-	0.8	181	30	247	-	4	20	372	22650	5840
91-72	11259	18.50	20.00	1.50	-	-	40	-	-	0.3	371	38	229	-	6	21	167	32440	2890
91-72	11260	20.00	21.50	1.50	-	-	269	-	-	0.7	1011	53	256	-	6	17	193	28600	2830
91-72	11261	21.50	23.00	1.50	-	-	870	-	-	2.1	1363	55	214	-	4	14	126	37210	740
91-72	11262	23.00	23.70	0.70	1.24	0.036	-	-	-	2.9	723	59	282	770	8	20	138	31430	1390
91-72	11263	23.70	24.40	0.70	0.15	0.004	-	-	-	0.4	304	68	408	820	16	16	283	15960	780
91-72	11234	24.40	26.00	1.60	0.06	0.002	-	2.20	0.06	0.6	331	174	131	2800	107	22	1074	41010	2960
91-72	11235	26.00	27.00	1.00	0.20	0.006	-	2.30	0.07	1.1	414	174	132	3670	104	29	988	37790	4000
91-72	11236	27.00	28.00	1.00	0.43	0.013	-	4.70	0.14	3.9	326	170	185	4585	116	29	1603	32350	3350
91-72	11237	28.00	29.00	1.00	1.64	0.048	-	34.20	1.00	28.9	608	1252	277	3850	51	23	726	19120	4630
91-72	11238	29.00	30.00	1.00	9.66	0.282	-	1332.00	38.85	1067.0	562	83000	57	29000	350	293	2064	11390	68110
91-72	11239	30.00	31.00	1.00	6.61	0.193	-	68.40	2.00	71.0	1547	3416	37515	10750	30	26	239	26950	9450
91-72	11240	31.00	32.00	1.00	8.16	0.238	-	13.90	0.41	15.5	1046	981	12356	12000	20	14	182	12910	6920
91-72	11241	32.00	33.00	1.00	14.55	0.424	-	14.80	0.43	13.6	3348	967	1056	17875	53	14	155	27100	4300
91-72	11242	33.00	34.00	1.00	8.71	0.254	-	724.20	21.12	482.0	1225	14085	530	20375	215	89	507	12740	12650
91-72	11243	34.00	35.00	1.00	9.42	0.275	-	1910.50	55.72	1350.0	1878	91850	52	72375	1000	218	1807	830	10810
91-72	11244	35.00	36.00	1.00	12.54	0.366	-	1353.00	39.46	674.3	756	68175	150	54625	238	63	704	770	6580
91-72	11245	36.00	37.00	1.00	15.22	0.444	-	1002.00	29.23	750.0	895	67185	414	34750	366	112	1117	6110	9410
91-72	11264	37.00	38.00	1.00	1.84	0.054	-	-	-	9.2	1552	925	179	3850	27	16	296	27330	4960
91-72	11265	38.00	39.00	1.00	7.98	0.233	-	-	-	35.2	3842	10963	191	10625	35	15	226	31010	5660
91-72	11266	39.00	40.00	1.00	1.90	0.055	-	-	-	48.8	273	694	1167	1430	25	15	263	8440	860
91-72	11267	40.00	41.00	1.00	0.73	0.021	-	-	-	24.6	285	192	283	1750	59	22	597	26120	4680
91-72	11268	41.00	42.00	1.00	0.04	0.001	-	-	-	1.5	178	169	154	1740	127	43	1535	38830	6040
91-72	11269	42.00	43.00	1.00	0.08	0.002	-	-	-	1.6	195	159	169	1550	116	42	1138	37520	5640
91-72	11270	43.00	44.00	1.00	0.02	0.001	-	-	-	0.7	208	135	224	1440	83	29	669	42150	5450
91-72	11271	44.00	45.00	1.00	0.01	0.001	-	-	-	1.1	154	93	109	1500	78	15	835	35470	6590
91-72	11272	45.00	46.00	1.00	0.02	0.001	-	-	-	1.1	141	77	151	1280	74	13	832	35120	7140
91-72	11273	46.00	47.00	1.00	0.01	0.001	-	-	-	1.6	143	64	135	1360	78	18	798	33970	10740
91-72	11274	47.00	48.00	1.00	0.02	0.001	-	-	-	2.5	128	64	114	1200	82	14	549	39740	9490
91-72	11275	48.00	49.00	1.00	0.01	0.001	-	-	-	1.9	101	57	115	1000	88	20	556	37190	9160
91-72	11276	49.00	50.00	1.00	0.01	0.001	-	-	-	1.5	89	44	95	840	55	16	551	27500	7730
91-72	11277	50.00	51.00	1.00	0.02	0.001	-	-	-	1.1	124	69	155	940	74	15	483	38540	10850
91-72	11278	51.00	52.20	1.20	0.03	0.001	-	-	-	2.1	190	77	174	1200	90	19	928	37750	7440
91-72	11279	52.20	54.80	2.60	0.01	0.001	1	1.40	0.04	0.9	61	5	65	-	4	19	107	11870	11670
91-72	11280	54.80	57.00	2.20	0.02	0.001	5	1.70	0.05	0.7	31	5	55	-	3	17	84	8570	6700

COMP: COPELAND REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: MARK REBAGLIATI

MIN-EN LABS — ICP REPORT  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

21-72

FILE NO: 1S-0218-R  
 DATE: 91/07/  
 \* ROCK \* (ACT: F3)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	HG PPM	
11234	.6	4160	331	5	131	1.7	1	2960	8.9	12	107	41010	2260	1	740	136	57	40	116	530	22	174	8	1	20	27.0	1074	1	4	2	43	2800	
11235	1.1	5060	414	5	132	2.2	1	4000	8.2	11	104	37790	2770	1	630	140	60	40	140	1000	29	174	7	1	23	34.9	988	1	2	2	40	3670	
11236	3.9	4160	326	5	185	1.9	1	3350	18.3	10	116	32350	2220	1	590	116	51	40	121	680	29	170	8	1	19	40.4	1603	1	1	3	55	4585	
11237	28.9	3500	608	4	277	1.2	1	4630	6.1	6	51	19120	1780	1	1520	108	27	1080	47	360	23	1252	28	1	23	22.0	726	1	1	5	96	3850	
11238	1067.1	10510	562	4	57	.7	3	68110	24.9	4	350	11390	1220	1	8860	355	22	40	39	200	293	83000	422	1	57	94.8	2064	11	4	7	118	29000	
11239	71.0	74820	1547	8	375	15	3.6	8	9450	.1	17	30	26950	6640	9	4050	120	14	400	29	780	26	3416	92	3	461	178.9	239	17	1	7	100	10750
11240	15.5	42240	1046	4	12356	1.7	6	6920	.1	9	20	12910	8760	9	4240	122	8	480	12	260	14	981	68	4	111	67.6	182	10	1	5	84	12000	
11241	13.6	64200	3348	7	1056	1.9	4	4300	.1	8	53	27100	18300	17	4930	68	13	3600	31	390	14	967	67	1	108	148.9	155	5	1	6	90	17875	
11242	482.0	27710	1225	2	530	.9	2	12650	.1	4	215	12740	4020	1	6310	197	10	230	20	180	89	14085	96	2	170	80.6	507	11	1	6	101	20375	
11243	1350.2	2840	1878	1	52	.1	1	10810	15.7	1	1000	830	230	1	300	35	13	10	21	60	218	91850	72	1	10	22.5	1807	7	4	2	9	72375	
11244	674.3	1190	756	1	150	.1	2	6580	7.9	1	238	770	200	1	80	12	14	20	10	20	63	68175	70	2	23	13.3	704	7	2	1	11	54625	
11245	750.0	2990	895	1	414	.2	2	9410	11.3	3	366	6110	690	1	590	54	26	1000	44	110	112	67185	80	1	71	31.3	1117	6	2	2	22	34750	

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPM	HG PPM
11246	2.5	4030	249	8	267	.8	1	2380	.1	4	20	25030	2110	1	770	57	27	450	41	90	21	88	5	1	23	14.3	299	1	3	5	110		1650
11247	3.6	2320	120	15	288	.8	2	1240	.9	3	10	7850	1290	11	550	34	17	490	33	20	17	71	4	6	15	7.6	210	5	2	4	89		1330
11248	1.3	6120	442	6	251	1.4	1	1160	.1	5	24	15280	3240	2	960	27	40	560	124	30	22	83	3	3	25	9.7	370	1	3	3	45		1335
11249	1.1	4660	309	5	182	1.0	1	2230	1.8	6	31	21460	2290	1	1030	44	39	1060	93	40	23	75	7	1	31	30.5	410	1	2	6	116		1050
11250	1.1	7900	352	6	207	1.7	1	1510	6.9	8	56	31150	3980	1	970	64	54	610	122	290	16	101	3	1	50	71.7	819	1	1	3	45		1740
11251	.6	10470	265	7	198	2.5	1	3340	5.2	11	77	36990	5300	2	1490	110	62	570	126	630	17	113	6	1	47	67.8	801	1	1	3	35		1695
11252	.9	9080	240	6	198	1.9	1	6000	6.6	9	73	34690	4490	1	2260	135	47	720	102	820	20	95	13	1	41	59.6	834	1	1	2	30		1550
11253	1.0	5810	172	5	177	1.3	1	4440	7.9	7	60	24680	3010	2	1460	106	51	570	92	540	29	93	9	1	34	46.6	901	1	1	2	37		1450
11254	.4	10000	350	7	218	2.0	1	3810	.1	5	23	35000	5230	1	2120	46	87	630	63	70	24	71	10	6	45	9.1	331	1	2	2	31		1130
11255	.8	8530	398	9	162	1.5	1	6990	.1	4	11	33300	4380	2	2280	78	47	460	21	30	22	43	13	1	35	10.8	214	3	1	6	139		2
11256	1.1	11200	124	5	254	1.9	2	4220	.1	2	7	14280	5470	3	2280	48	10	610	13	30	20	28	8	2	39	7.1	231	4	1	6	150		4
11257	.8	9430	271	4	204	2.1	1	6730	.1	4	4	34290	4810	3	2430	98	34	70	1	10	20	32	11	1	41	3.3	169	2	1	4	116		1
11258	.8	9530	181	2	247	2.0	1	5840	.1	3	4	22650	4810	2	2250	77	17	400	7	10	20	30	11	1	39	3.3	372	3	1	5	131		5
11259	.3	8470	371	1	229	1.9	1	2890	.1	3	6	32440	4300	2	1870	41	35	450	5	10	21	38	7	1	38	3.6	167	1	1	4	103		40
11260	.7	9410	1011	1	256	2.0	1	2830	.1	3	6	28600	4830	2	1990	36	25	70	12	10	17	53	8	1	40	4.8	193	2	1	4	91		269
11261	2.1	7180	1363	1	214	1.2	1	740	.1	4	4	37210	3710	1	1040	26	54	580	11	10	14	55	2	1	34	3.5	126	1	1	5	134		870
11262	2.9	8340	723	6	282	1.4	1	1390	.1	4	8	31430	4410	1	1210	54	82	70	24	20	20	59	4	4	31	3.7	138	1	3	5	111		770
11263	.4	7300	304	4	408	1.6	1	780	.1	3	16	15960	3810	1	940	46	58	60	80	50	16	68	4	5	26	12.0	283	1	3	4	84		820
11264	9.2	9980	1552	5	179	1.4	1	4960	.1	5	27	27330	3290	1	1440	93	42	800	27	120	16	925	20	2	34	20.2	296	1	2	5	106		3850
11265	35.2	21070	3842	6	191	1.4	1	5660	.1	8	35	31010	4410	1	2560	149	29	1340	18	40	15	10963	34	1	73	44.3	226	2	4	6	108		10625
11266	48.8	2480	273	2	1167	.7	1	860	1.6	3	25	8440	1160	1	460	41	12	1000	19	10	15	694	4	1	14	14.4	263	1	2	6	149		1430
11267	24.6	6340	285	3	283	1.7	1	4680	4.7	8	59	26120	2990	1	1550	128	35	580	70	360	22	192	10	1	28	28.0	597	1	2	4	84		1750
11268	1.5	8500	178	6	154	3.0	1	6040	15.6	11	127	38830	4400	1	2180	167	68	940	141	720	43	169	13	1	38	74.6	1535	1	1	2	33		1740
11269	1.6	8090	195	6	169	2.8	1	5640	10.8	11	116	37520	4240	1	2030	149	70	640	159	520	42	159	11	1	38	53.9	1138	1	2	2	27		1550
11270	.7	8320	208	6	224	2.4	1	5450	3.5	12	83	42150	4360	1	1890	132	72	950	133	550	29	135	11	1	47	57.8	669	1	1	3	42		1440
11271	1.1	5950	154	4	109	1.9	1	6590	8.5	10	78	35470	3240	1	2320	229	33	720	90	410	15	93	13	1	30	36.4	835	1	1	1	20		1500
11272	1.1	8000	141	6	151	2.0	2	7140	10.1	9	74	35120	4460	1	2910	222	23	670	64	280	13	77	22	1	36	38.4	832	1	2	2	27		1280
11273	1.6	7390	143	5	135	1.8	2	10740	11.3	9	78	33970	3910	1	4330	290	15	730	49	710	18	64	29	1	35	54.4	798	1	2	2	37		1360
11274	2.5	6200	128	6	114	1.6	1	9490	6.5	10	82	39740	3440	1	4050	295	23	500	39	350	14	64	25	1	29	35.1	549	1	2	2	32		1200

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	HG PPM	
11275	1.9	7010	101	12	115	1.8	1	9160	6.3	11	88	37190	3850	1	3990	278	16	720	43	860	20	57	22	1	36	39.7	556	1	3	1	19		1000
11276	1.5	5620	89	7	95	1.8	1	7730	7.6	8	55	27500	3100	1	4570	251	16	730	44	380	16	44	18	2	30	32.7	551	3					



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• ENVIRONMENTAL  
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(DIVISION OF ASSAYERS CORP.)

91-72

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FAX (604) 980-9621

**SMITHERS LAB.:**  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

Assay Certificate

1S-0218-RA1

Company: COPELAND REBAGLIATI & ASSOC.  
Project: 9101  
Attn: MARK REBAGLIATI

Date: JUL-25-91  
Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.  
2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

We hereby certify the following Assay of 23 ROCK samples submitted JUL-24-91 by RICHARD HASLINGER.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton	AG-FIRE g/tonne	AG-FIRE oz/ton
11234	.06	.002	2.2	.06
1235	.20	.006	2.3	.07
1236	.43	.013	4.7	.14
11237	1.64	.048	34.2	1.00
11238	9.66	.282	1332.0	38.85
11239	6.61	.193	68.4	2.00
11240	8.16	.238	13.9	.41
1241	14.55	.424	14.8	.43
11242	8.71	.254	724.2	21.12
11243	9.42	.275	1910.5	55.72
1244	12.54	.366	1353.0	39.46
11245	15.22	.444	1002.0	29.23
11279	.01	.001	1.4	.04
11280	.02	.001	1.7	.05

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3178 TATLOW ROAD  
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FAX (604) 847-3005

Assay Certificate

1S-0221-RA1

Company: **COPELAND REBAGLIATI & ASSOC.**  
Project: 9101  
Attn: MARK REBAGLIATI

Date: JUL-26-91  
Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.  
2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

*We hereby certify* the following Assay of 30 ROCK samples submitted JUL-24-91 by RICHARD HASLINGER.

Sample Number	AU g/tonne	AU oz/ton
11246	.03	.001
11247	.01	.001
11248	.02	.001
11249	.02	.001
11250	.01	.001
11251	.01	.001
11252	.02	.001
11253	.02	.001
11254	.02	.001
11262	1.24	.036
11263	.15	.004
11264	1.84	.054
11265	7.98	.233
11266	1.90	.055
11267	.73	.021
11268	.04	.001
11269	.08	.002
11270	.02	.001
11271	.01	.001
11272	.02	.001
11273	.01	.001
11274	.02	.001
11275	.01	.001
11276	.01	.001
11277	.02	.001
11278	.03	.001

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SMITHERS LAB.:  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

## Assay Certificate

1S-0221-XA1

Company: COPELAND REBAGLIATI & ASSOC.  
Project: 9101  
Attn: MARK REBAGLIATI

Date: JUL-26-91  
Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.  
2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

*We hereby certify* the following Assay of 20 ROCK samples  
submitted JUL-24-91 by RICHARD HASLINGER.

Sample Number	AG g/tonne	AG oz/ton
11264	8.6	.25
11265	38.1	1.11
11266	46.8	1.37
11267	25.4	.74
11268	3.0	.09
11269	2.8	.08
11270	2.6	.08
11271	1.4	.04
11272	3.0	.09
11273	2.6	.08
11274	3.1	.09
11275	2.9	.08
11276	2.6	.08
11277	3.0	.09
11278	3.8	.11

Certified by \_\_\_\_\_

MIN-EN LABORATORIES

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-73  
SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 104B/9 CLAIM # : SIB 12, 35  
LOCAL GRID : 8831.74 N / 9729.06 E GLOBAL GRID : 13212.76 N / 17757.32 E  
LENGTH : 57.90 m INCLINATION : -82.0 degrees ELEVATION : 978.50 metres  
OVERBURDEN : 3.05 m CASING : 3.05 metres AZIMUTH : 292.0 degrees  
LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
DATE LOGGED : 1991/07/23 DATE DRILLED : 1991/07/22 CORE LOCATION: 86+30 N, 96+70 E  
Y/M/D Y/M/D SAMPLE NO. SERIES : 11281-11316

## SUMMARY LOG

91-73

From(m)	To(m)	Field Name (Legend)
0.00	3.05	CASING
3.05	16.00	SULPHIDIC MUDSTONE AND CHERT (3.5) 8.5 - 9.0 TUFFACEOUS RHYOLITE -SERICITE (3.9a)
16.00	20.50	TUFFACEOUS RHYOLITE -SERICITE, -PYRITE (3.9a, Py)
20.50	30.00	SULPHIDIC MUDSTONE AND CHERT (3.5) +/- GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)
30.00	35.40	BLACK CHERT - CHERT BRECCIA, PYRITE (3.3Py) +/- SULPHIDIC MUDSTONE AND CHERT (3.5)
35.40	46.90	SULPHIDIC MUDSTONE AND CHERT (3.5) 35.4 - 36.6 STIBNITE - BARITE - CALCITE VEIN 45.4 - 46.9 STIBNITE - BARITE - CALCITE VEIN
46.90	55.00	SULPHIDIC MUDSTONE AND CHERT (3.5)
55.00	57.90	RHYOLITE FLOW (AUTOBRECCIATED) (3.8) +/- TUFFACEOUS RHYOLITE (3.9)
57.90		END OF HOLE.

## ANALYTICAL HIGHLIGHTS

91-73

From(m)	To(m)	Length(m)	Au g/t	Au Oz/ton	Ag g/t	Ag Oz/ton	% Pb	% Zn
28.00	35.40	7.40	0.83	0.024	0.6	0.02		
35.40	47.90	12.50	12.46	0.363	1257.9	36.69		
47.90	49.00	1.10	0.65	0.019	39.70	1.16		

From(m)	To(m)	Description
0.00	3.05	CASING
3.05	16.00	SULPHIDIC MUDSTONE AND CHERT (3.5) 8.5 - 9.0 TUFFACEOUS RHYOLITE -SERICITE (3.9a)
		<p>Lithology &lt;3.05&gt;-&lt;16.0&gt;</p> <p>-Dark grey, fissile, 60 - 70% tuffaceous and fragmental material; 30 - 40% argillic, silt and mudstone debris. Larger fragments are sericitic. The principle component in the volcanic regime is siliceous. Textures and composition are fairly uniform, while the lower contact is gradational.</p> <p>Structure</p> <p>-Bedding and/or foliations @ 45 - 50 degrees to c/a. Bedding angles consistent.</p> <p>Alteration</p> <p>-Weakly silicified and sericitized.</p> <p>Mineralization</p> <p>-0.25 - 0.50% syngenetic pyrite.</p> <p>Lithology &lt;9.0&gt;-&lt;13.0&gt;</p> <p>-Black, hard, not an "end member unit" with 5 - 10% volcanic debris throughout. Contacts appear to be gradational. Sulphidic dominated mudstone.</p> <p>Structure</p> <p>-Bedding @ 40 degrees to c/a. Fractured interval from 10.05 - 13.0 metres.</p> <p>Alteration</p> <p>-Silicified (weak).</p> <p>Mineralization</p> <p>-&lt; 1 syngenetic pyrite.</p> <p>Lithology &lt;13.0&gt;-&lt;17.8&gt;</p> <p>-See 3.05 - 9.00 metre interval. There is 10 - 15% clastic material, primarily in the form of mudstone clasts and very fine argillaceous partings or laminae, within the ash/fragmental tuff: Alternating ash/tuff and fragmental/tuff rich sections, grading into heterolithic tuff sections. The matrix is siliceous and hard.</p> <p>Mineralization</p> <p>-There is 0.75 - 1% syngenetic pyrite dispersed throughout the unit.</p>
16.00	20.50	TUFFACEOUS RHYOLITE -SERICITE, -PYRITE (3.9a, Py)
		<p>Lithology &lt;17.8&gt;-&lt;21.33&gt;</p> <p>-Greenish yellow to grey, brecciated type flow. Both contacts 70 degrees to c/a. The weak sericitization of the rock results in a patchy colour, and vagueness of flow contacts.</p>



From(m)      To(m)      -----Description-----

Structure, Alteration, Mineralization

-Semi-massive, weakly sericitized, silicified, unmineralized.

20.50      30.00      SULPHIDIC MUDSTONE AND CHERT (3.5) +/- GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)

Lithology <21.33>-<31.90>

-Interbedded heterolithic (fragmental) and clastic free ash/fragmental tuff. Multicoloured due to bedding alternations. Definite increase in heterolithic type components (mudstone clasts) from 30.5 - 31.9m -contact with unit below is gradational. Both "rock types" contain anomalous amounts of pyrite.

Structure

-Lower contact is 30 - 35 degrees to c/a but may represent a foliation. Bedding in unit regular @ 45 - 50 degrees to c/a. Below 30.5 metres, the bedding is deformed and irregular. Probably there is foliation development, transposed foliations.

Alteration

-Weak sericite/silica alteration.

Mineralization

-Pyrite common through this unit. From 21.33 - 28.0m.: 1.5% pyrite, 28.0 - 29.5m.: 2.5% pyrite, 29.5 - 31.9m.: 10 - 15% pyrite. Lower 1 metre may have arsenopyrite. The pyrite increase may be related to epigenetic mineralization.

30.00      35.40      BLACK CHERT - CHERT BRECCIA, PYRITE (3.3Py) +/- SULPHIDIC MUDSTONE AND CHERT (3.5)  
35.40      46.90      SULPHIDIC MUDSTONE AND CHERT (3.5)  
35.4 - 36.6 STIBNITE - BARITE - CALCITE VEIN  
45.4 - 46.9 STIBNITE - BARITE - CALCITE VEIN

Lithology <31.9>-<45.0>

-Sheared, fractured and faulted mudstone that has been hydrothermally altered. This interval has complex type vein mineralization and quartz-carbonate flooding type of mineralization.

-Essentially a mudstone, that has been (is) brecciated / fractured. Commonly this mudstone is semi-massive, hard, blocky, but with a brecciated texture. Sub-angular to rounded mudstone in a siliceous and sericitic matrix. Some sections have sheared fine grained, foliated siliceous mudstone, while other sections have a hard, semi-massive, weakly fractured mudstone.

-31.9 - 35.4m: Fractured, brecciated mudstone with silica - sericite - pyrite, lesser (trace) arsenopyrite melange in the matrix. The matrix makes up 15 - 20% of unit.

-35.4 - 40.2m: Fault zone (see mineralization section).

-40.2 - 45.4m: Fractured, silicified, brecciated mudstone; hydrothermal veining from 43.33 - 45.4.

From(m)	To(m)	Description
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-45.4 - 46.9m: Stibnite - Barite vein (55 degrees upper contact, 45 degrees lower contact).

-46.9 - 47.9m: Less fractured, brecciated, mineralized.

#### Structure

-Related to the intervals listed above. Key elements include the upper fault, @ 35.4 metres. Shearing/fracturing between 38.4 and 40.2m., and brecciation zones. Large fracture or dilatation zones @ 35.4 - 36.6m (stibnite vein), and 45.4 - 46.9m. (stibnite vein) have concentrated sulphide rich mineral phases. Except for some measured angles in the sulphide vein zones; There is no preserved record of the fault orientations. The stibnite veins are believed to be trending subparallel to the fault zone(s).

-Upper fault contact @ 35.4m (no record), then from 35.4 to 38.4m; only 25 - 40cm of core recovered. Core lost to 40.2 metres. (See sample log)

-Shearing/fracturing begins @ 31.9, then foliations approach 0 - 10 degrees @ the 35.4m contact.

-Graphitic mudstone common from 38.4 - 40.2m and from 43.0 - 44.0 metres.

#### Alteration

-Earlier silica alteration, silicification of mudstone (moderate; weak to very weak carbonate alteration (primarily vein related) between 35.4 and 38.4m, and from 44.33 - 47.9m. Carbonate phase related to emplacement of key sulphide minerals.

#### Mineralization

-31.9 - 35.4m: 2 - 3% epigenetic and syngenetic pyrite, trace arsenopyrite. Very fine grained pyrite with acicular (<0.5mm) arsenopyrite.

-34.5 - 36.6m: Stibnite - Barite - Calcite Vein: 65% stibnite, 10% barite, 5% calcite, and 20% host rock. No contacts. <25cm of recovery. See other stibnite vein description for textures.

-36.6 - 38.4m: Quartz - Calcite Vein: mudstone host, mineralized, severe core losses, <15cm of recovery.

-38.4 - 40.2m: 2 - 3% epigenetic pyrite, trace arsenopyrite in graphitic mudstone crosscutting veinlets common.

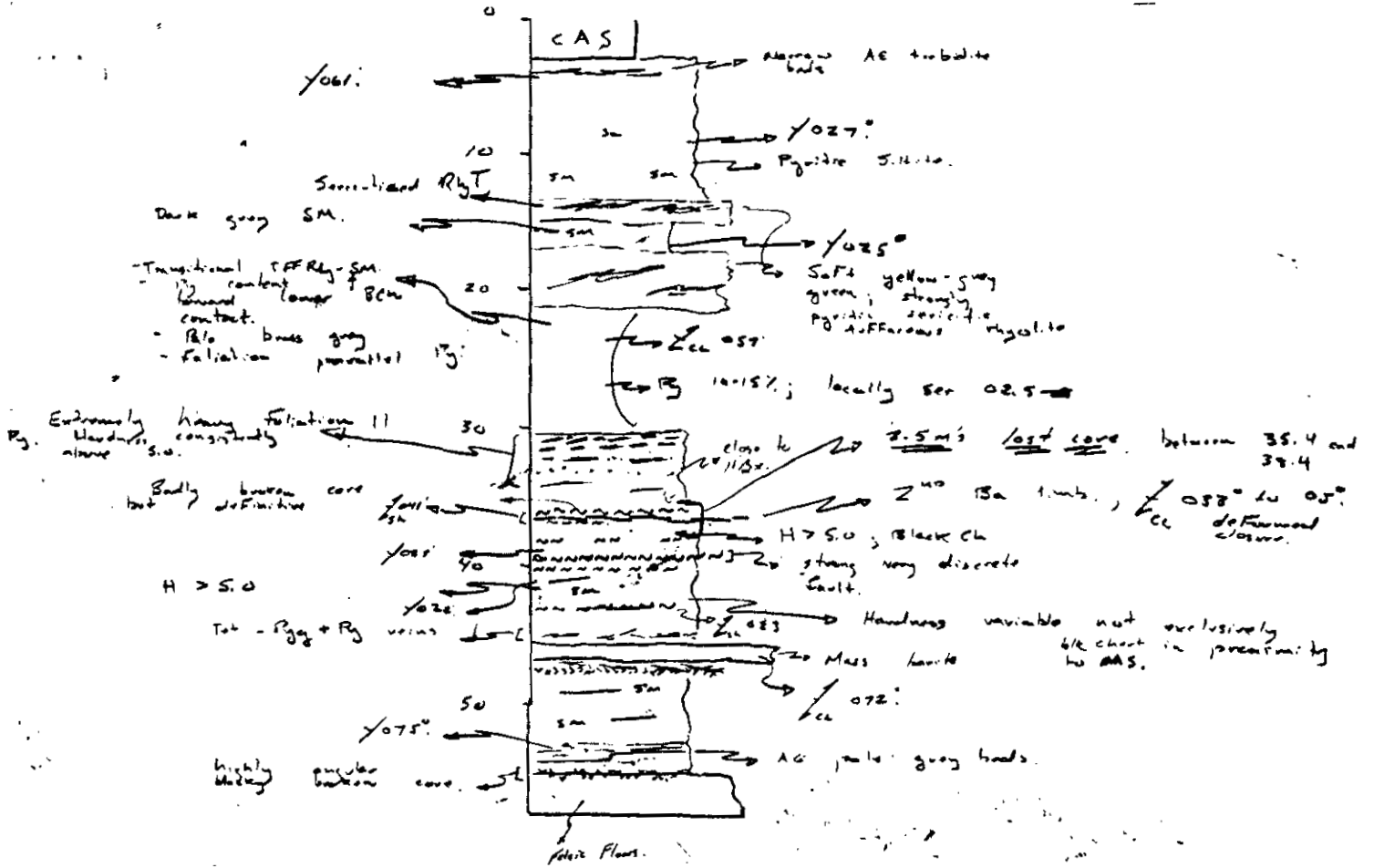
-40.2 - 43.33m: 2 - 3% pyrite, trace arsenopyrite, stibnite. The stibnite is concentrated in micro fractures, arsenopyrite is associated with pyrite as short (<0.5mm) needles.

-43.33 - 45.4m: Brecciated mudstone with complex vein associations. Primarily fracture filling mineralization of pyrite, stibnite, ruby silver, arsenopyrite, and isolated specs of V.G. (visible gold). Veins commonly at 65 - 80 degrees to c/a, but veins are "joined" in some cases. Gold concentrated in micro-fractures in either sulphide veins or in the mudstone host.

-43.33 - 44.33m (1m): 5 - 8% total sulphides; of this modally 80 - 85% pyrite, 8% stibnite, 8% ruby silver, 2% arsenopyrite. V.G. noted.

-44.33 - 45.40m (1.07m): 15% sulphides; of this modally 50 - 60% pyrite, 20 - 25% ruby silver (pyrargyrite - proustite), 15 - 20% stibnite, <5% arsenopyrite. V.G. noted as specs (percentage in ranges due to difficulty of separating sulphide phases that are very fine grained).

From(m)	To(m)	Description
		<p>-45.4 - 46.9m: Stibnite - Barite - Calcite Vein: Upper contact @ 55 degrees to c/a, lower contact @ 45 degrees to c/a. May follow the fault plane. Laminated, colliform, net textures noted, sub-metallic lustre. Heavy. 60 - 70% stibnite, 10% barite, 5% calcite, 10 - 20% host rock material. V.G. noted.</p> <p>-46.9 - 47.9m: See 44.33 - 45.4m description. Total sulphides of 5 - 8%, abundant calcitic veinlets; fracture network; possible V.G. in micro fractures. Vein @ 69 - 80 degrees to c/a, but "joined" in a network also. Isolated pyrite - arsenopyrite - ruby silver - stibnite veins, crosscutting the rock @ 60 - 90 degrees to c/a, with an average of 75 - 80 degrees.</p> <p>Note: the upper pyrite - arsenopyrite - ruby silver - stibnite veins also at high angles to c/a. All core was diamond sawed from 30.5 - 48.0 metres, so that future inspection of these rocks will yield more detailed information.</p>
46.90	55.00	<p>SULPHIDIC MUDSTONE AND CHERT (3.5)</p> <p>Lithology &lt;47.9&gt;-&lt;55.0&gt;</p> <p>-Black, laminated, pyritic and chert/siltstone/pyrite bands common, graphitic in upper 2.0 metres. Blocky form to core, and core is broken up to lower contact. (Hanging wall mudstone?).</p> <p>Structure</p> <p>-Sharp lower contact, not clean to measure angle from. Bedding @ 58 - 62 degrees to c/a. Fracture zones common, possible slips as well, but not well recorded in the rock.</p> <p>Alteration</p> <p>-Weakly silicified, isolated calcareous veins.</p> <p>Mineralization</p> <p>-No cross cutting (pyrite massive) mineralization noted in the 47.9 - 50.0 metre interval. Syngenetic pyrite accounts for &lt;1% of the rock.</p>
55.00	57.90	<p>RHYOLITE FLOW (AUTOBRECCIATED) (3.8) +/- TUFFACEOUS RHYOLITE (3.9)</p> <p>Lithology, Structure</p> <p>-Grey, siliceous, massive, very hard, unfoliated. Bland.</p> <p>Alteration</p> <p>-Silicified, hairline silica (quartz) veinlets common, 1 - 2% of rock is vein material.</p> <p>Mineralized</p> <p>-Unmineralized.</p>
57.90		END OF HOLE.



MARY YATES  
 LAURIE FORSGY

AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91-73	11281	3.05	5.00	1.95	-	-	2	-	-	0.4	243	53	129	-	24	21	187	26310	1330
91-73	11282	5.00	7.00	2.00	-	-	20	-	-	0.5	180	51	138	-	12	24	175	21930	3260
91-73	11283	7.00	9.00	2.00	0.02	0.001	-	-	-	0.2	153	38	148	800	13	17	199	17410	3680
91-73	11284	9.00	11.00	2.00	0.04	0.001	-	-	-	0.3	319	63	104	1415	28	17	473	23330	2920
91-73	11285	11.00	13.00	2.00	0.02	0.001	-	-	-	1.0	263	86	127	1310	55	24	785	27350	3750
91-73	11286	13.00	15.00	2.00	-	-	1	-	-	0.5	522	32	145	-	6	21	165	33310	3770
91-73	11287	15.00	17.00	2.00	-	-	2	-	-	0.7	144	38	177	-	6	20	216	16510	5010
91-73	11288	17.00	19.00	2.00	-	-	126	-	-	1.2	398	42	245	-	5	23	168	20430	5140
91-73	11289	19.00	21.00	2.00	-	-	10	-	-	1.2	115	22	150	-	2	20	110	14980	12440
91-73	11290	21.00	23.00	2.00	-	-	24	-	-	0.8	251	22	182	-	4	20	141	16910	4850
91-73	11291	23.00	25.00	2.00	-	-	5	-	-	0.5	257	28	135	-	4	21	126	21330	4220
91-73	11292	25.00	26.50	1.50	0.01	0.001	2	0.80	0.02	0.4	263	36	191	-	7	22	153	29920	2540
91-73	11293	26.50	28.00	1.50	0.05	0.001	58	1.10	0.03	0.7	704	51	245	-	7	19	181	24380	2730
91-73	11294	28.00	29.50	1.50	0.44	0.013	390	1.30	0.04	0.9	2101	87	263	-	7	20	151	25230	3950
91-73	11295	29.50	30.50	1.00	1.20	0.035	1065	1.20	0.04	0.2	3140	97	235	-	4	19	106	62150	2130
91-73	11296	30.50	31.50	1.00	2.21	0.064	-	-	-	0.1	6401	145	139	5000	6	14	89	115210	800
91-73	11297	31.50	32.50	1.00	1.02	0.030	-	-	-	0.1	1897	65	269	1460	10	16	87	41600	860
91-73	11298	32.50	33.50	1.00	0.45	0.013	-	-	-	0.1	878	97	260	985	11	14	134	28440	690
91-73	11299	33.50	34.40	0.90	0.18	0.005	-	-	-	0.7	216	69	347	1840	30	19	409	17900	1340
91-73	11300	34.40	35.40	1.00	0.42	0.012	-	-	-	0.3	1362	62	411	1255	13	17	166	23950	660
91-73	11301	35.40	38.40	3.00	17.21	0.502	-	1771.00	51.65	1095.0	775	72810	183	23125	1056	83	1825	14410	21160
91-73	11302	38.40	39.60	1.20	5.39	0.157	-	65.40	1.91	67.9	1671	1977	184	6250	73	40	493	25180	3760
91-73	11303	39.60	40.70	1.10	5.08	0.148	-	266.00	7.76	243.6	1819	2372	193	7750	92	421	938	23520	3530
91-73	11304	40.70	41.20	0.50	7.20	0.210	-	44.70	1.30	37.2	3201	402	210	7000	79	23	742	29990	2660
91-73	11305	41.20	42.67	1.47	4.38	0.128	-	60.00	1.75	56.9	2547	874	171	10000	92	28	688	32270	3420
91-73	11306	42.67	43.33	0.66	5.42	0.158	-	243.00	7.09	236.9	1792	1155	301	7750	84	111	655	21350	3190
91-73	11307	43.33	44.33	1.00	5.69	0.166	-	369.00	10.76	215.8	1276	1765	481	6875	47	72	196	8520	2440
91-73	11308	44.33	45.40	1.07	28.19	0.822	-	2990.00	87.21	1193.0	2055	17727	1124	30750	309	769	1616	14650	10620
91-73	11309	45.40	46.90	1.50	22.16	0.646	-	3381.50	98.63	1374.0	1268	71760	313	51625	341	715	2772	1620	11370
91-73	11310	46.90	47.90	1.00	9.30	0.271	-	1128.00	32.90	1040.0	266	7428	245	7750	159	212	839	14020	9380
91-73	11311	47.90	49.00	1.10	0.65	0.019	-	39.70	1.16	40.8	332	537	242	2750	51	24	500	20430	10570
91-73	11312	49.00	50.00	1.00	0.01	0.001	-	-	-	2.1	121	72	86	1090	45	26	273	22160	81510
91-73	11313	50.00	51.00	1.00	0.02	0.001	-	-	-	2.6	104	109	126	1630	92	17	1217	28310	7480
91-73	11314	51.00	52.50	1.50	0.01	0.001	-	-	-	2.3	99	100	99	1120	91	20	750	35540	11140
91-73	11315	52.50	55.00	2.50	-	-	2	-	-	1.4	94	62	129	-	56	16	348	32330	13860
91-73	11316	55.00	57.90	2.90	-	-	1	-	-	1.0	120	5	33	-	3	19	80	8460	9530

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

COMP: COPELAND REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: MARK REBAGLIATI

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPM	FIRE PPM
11281	.4	6960	243	1	129	1.2	2	1330	.1	6	24	26310	3710	1	1110	27	35	610	35	40	21	53	3	1	36	14.1	187	1	1	5	121	2	
11282	.5	7740	180	1	138	1.2	2	3260	.1	3	12	21930	4110	2	2090	36	27	490	24	30	24	51	8	1	32	6.2	175	2	1	5	113	20	

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPM	FIRE PPM
11283	.2	7330	153	6	148	1.5	1	3680	.1	3	13	17410	3760	2	1880	44	21	720	23	30	17	38	9	3	33	7.3	199	1	2	3	62	800	
11284	.3	5870	319	5	104	1.2	1	2920	.4	5	28	23330	3020	1	1360	64	46	670	76	110	17	63	7	1	34	27.7	473	1	3	5	107	1415	
11285	1.0	7600	263	7	127	1.8	1	3750	5.8	8	55	27350	3740	2	1600	111	49	590	104	390	24	86	7	1	39	60.8	785	1	2	3	55	1310	
11290	.8	5810	251	1	182	1.9	2	4850	.1	2	4	16910	4400	2	2140	51	19	60	6	10	20	22	10	1	38	2.9	141	3	1	8	217	24	
11291	.5	810	257	1	135	1.7	1	4220	.1	2	4	21330	3130	1	2100	44	22	610	10	10	21	28	9	1	28	8.2	126	2	1	4	113	5	
11292	.4	7630	263	1	191	1.9	1	2540	.1	3	7	29920	4080	2	1760	28	35	320	5	10	22	36	6	1	33	4.6	153	2	1	5	150	2	
11293	.7	8490	704	1	245	1.8	2	2730	.1	3	7	24380	4520	2	1950	28	27	60	5	20	19	51	7	1	36	4.5	181	2	1	4	89	58	
11294	.9	8240	2101	1	263	1.5	2	3950	.1	3	7	25230	4370	2	2220	59	31	60	1	10	20	87	10	1	39	4.8	151	2	1	5	125	390	
11295	.2	6530	3140	1	235	1.2	1	2130	.1	6	4	62150	3590	1	1290	33	63	470	1	10	19	97	5	1	35	3.4	106	1	1	2	57	1065	

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPM	FIRE PPM
11296	.1	6210	6401	10	139	1.1	1	800	.1	10	6	115210	3280	1	810	20	102	1130	1	10	14	145	1	1	29	1.7	89	1	1	3	76	5000	
11297	.1	6200	1897	6	269	.8	1	860	.1	4	10	41600	3290	1	760	27	47	50	1	30	16	65	2	3	31	3.4	87	1	14	2	50	1460	
11298	.1	5360	878	5	260	.9	1	690	.1	3	11	28440	2880	1	610	30	60	40	12	60	14	97	3	5	21	3.2	134	1	1	2	28	985	
11299	.7	7280	216	4	347	1.0	1	1340	.1	4	30	17900	3750	1	790	55	54	840	51	210	19	69	4	4	21	23.8	409	1	3	2	40	1840	
11300	.3	7060	1362	5	411	1.0	1	660	.1	3	13	23950	3640	1	730	35	60	60	6	50	17	62	4	6	19	4.0	166	1	1	2	33	1235	

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU PPM	FIRE PPM
11301	1095.3	6110	775	3	183	.5	1	21160	14.1	4	1056	14410	1210	1	1520	250	35	2080	73	330	83	72810	58	1	29	44.4	1825	6	3	4	66	23125	
11302	67.9	8520	1671	8	184	1.6	1	3760	.1	7	73	25180	3930	2	1100	95	59	560	68	340	40	1977	12	2	27	31.2	493	1	1	4	49	6250	
11303	243.6	6530	1819	4	193	1.1	4	3530	2.8	6	92	23520	2980	1	970	85	30	830	56	200	421	2372	14	1	18	30.7	938	1	1	5	97	7750	
11304	37.2	5830	3201	4	210	.9	1	2660	.1	9	79	29990	2770	1	790	97	41	750	84	370	23	402	10	1	18	32.2	742	1	1	3	62	7000	
11305	56.9	13610	2547	5	171	1.1	1	3420	.1	9	92	32270	5600	1	920	106	43	1450	86	470	28	874	13	1	20	30.1	688	1	1	3	51	10000	
11306	236.9	5740	1792	4	301	1.3	1	3190	.1	7	84	21350	2530	1	1150	121	19	750	44	210	111	1155	10	1	16	25.8	655	2	1	5	103	7750	
11307	215.8	7210	1276	1	481	.3	2	2440	.1	3	47	8520	1790	1	910	69	6	380	9	30	72	1765	13	2	7	11.5	196	5	1	4	81	6875	
11308	1193.2	32450	2055	4	1124	1.4	3	10620	5.9	5	309	14650	4140	4	4290	217	23	610	21	360	769	17727	59	2	115	57.9	1616	12	1	7	159	30750	
11309	1374.0	4150	1268	1	313	.2	1	11370	19.6	1	341	1620	310	1	410	72	53	20	73	60	715	71760	490	1	54	34.3	2772	8	4	2	11	51625	
11310	1040.1	2390	266	2	245	.4	1	9380	8.5	3	159	14020	1180	1	820	167	11	520	23	50	212	7428	61	1	13	13.7	839	1	1	5	118	7750	
11311	40.8	3910	332	3	242	1.1	1	10570	6.0	6	51	20430	2090	1	660	170	23	820	43	300	24	537	40	1	17	23.2	500	1	1	2	57	2750	

11-73

FILE NO: 1S-0221-RJ1+21+  
DATE: 91/07/20  
\* ROCK \* (ACT:F31)

**MIN-EN LABS -- ICP REPORT**  
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
(604)980-5814 OR (604)988-4524

COMP: COPELAND REBAGLIATI & ASSOC.  
PROJ: 9101  
ATTN: MARK REBAGLIATI

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPM
11312	2.1	3350	121	3	86	.8	3	81510	2.4	6	45	22160	1960	1	3030	2253	19	890	45	430	26	72	119	1	16	23.8	273	3	1	1	6	1090
11313	2.6	7640	104	4	126	2.1	1	7480	20.9	8	92	28310	4160	1	2940	222	21	890	76	330	17	109	14	1	25	60.6	1217	1	1	1	28	1630
11314	2.3	6560	99	4	99	1.7	1	11140	11.5	10	91	35540	3490	1	4890	522	18	690	54	320	20	100	25	1	23	48.3	750	1	2	1	9	1120

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPM
11315	1.4	9600	94	1	129	2.1	1	13860	1.0	9	56	32330	5080	1	6900	351	15	560	28	450	16	62	32	1	46	38.6	348	2	1	2	28	2
11316	1.0	4170	120	1	33	1.0	2	9530	.1	1	3	8460	1820	1	4950	158	7	420	1	30	19	5	22	1	30	2.3	80	4	1	7	181	1



**SPECIALISTS IN MINERAL ENVIRONMENTS**  
 CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

705 WEST 15TH STREET  
 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
 TELEPHONE (604) 980-5814 OR (604) 988-4524  
 FAX (604) 980-9621

**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Assay Certificate

1S-0221-RA1

Company: **COPELAND REBAGLIATI & ASSOC.**  
 Project: 9101  
 to: MARK REBAGLIATI

Date: JUL-26-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.  
 2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

We hereby certify the following Assay of 30 ROCK samples  
 submitted JUL-24-91 by RICHARD HASLINGER.

Sample Number	AU g/tonne	AU oz/ton
11283	.02	.001
11284	.04	.001
11285	.02	.001
11296	2.21	.064

Sample Number	AU g/tonne	AU oz/ton	AG g/tonne	AG oz/ton
11292	.01	.001	0.8	.02
11293	.05	.001	1.1	.03
11294	.44	.013	1.3	.04
11295	1.20	.035	1.2	.04

Sample Number	AU g/tonne	AU oz/ton
11297	1.02	.030
11298	.45	.013
11299	.18	.005
11300	.42	.012

Certified by   
 MIN-EN LABORATORIES





**MIN-EN LABORATORIES**  
 (DIVISION OF ASSAYERS CORP.)

91-73

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
 CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:  
 705 WEST 15TH STREET  
 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
 TELEPHONE (604) 980-5814 OR (604) 988-4524  
 FAX (604) 980-9621

**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

*Assay Certificate*

1S-0218-RA1

Company: COPELAND REBAGLIATI & ASSOC.  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-25-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.  
 2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

We hereby certify the following Assay of 23 ROCK samples submitted JUL-24-91 by RICHARD HASLINGER.

Sample Number	AU-FIRE g/tonne	AU-FIRE oz/ton	AG-FIRE g/tonne	AG-FIRE oz/ton
11301	17.21	.502	1771.0	51.65
11302	5.39	.157	65.4	1.91
11303	5.08	.148	266.0	7.76
11304	7.20	.210	44.7	1.30
11305	4.38	.128	60.0	1.75
11306	5.42	.158	243.0	7.09
11307	5.69	.166	349.0	10.76
11308	28.19	.822	2990.0	87.21
11309	22.16	.646	3381.5	96.63
11310	9.30	.271	1128.0	32.90
11311	.65	.019	39.7	1.16

Sample Number	AU g/tonne	AU oz/ton
11312	.01	.001
11313	.02	.001
11314	.01	.001

Certified by

MIN-EN LABORATORIES



**MIN-EN LABORATORIES**  
 (DIVISION OF ASSAYERS CORP.)

91-73

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
 CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
 705 WEST 15TH STREET  
 NORTH VANCOUVER, B.C. CANADA V7M 1T2  
 TELEPHONE (604) 980-5814 OR (604) 988-4524  
 FAX (604) 980-9621

**SMITHERS LAB.:**  
 3176 TATLOW ROAD  
 SMITHERS, B.C. CANADA V0J 2N0  
 TELEPHONE (604) 847-3004  
 FAX (604) 847-3005

Assay Certificate

1S-0221-XA1

Company: **COPELAND REBAGLIATI & ASSOC.**  
 Project: 9101  
 Attn: MARK REBAGLIATI

Date: JUL-26-91  
 Copy 1. COPELAND REBAGLIATI & ASSOC., VAN., B.C.  
 2. COPELAND REBAGLIATI, C/O MIN-EN LABS.

We hereby certify the following Assay of 20 ROCK samples  
 submitted JUL-24-91 by RICHARD HASLINGER.

Sample Number	AG g/tonne	AG oz/ton
11296	1.9	.06
11297	1.2	.04
1298	1.8	.05
11299	1.2	.04
11300	0.9	.03

Certified by   
 MIN-EN LABORATORIES

COPELAND REBAGLIATI & ASSOCIATES LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-74  
SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 1048/9 CLAIM # : SIB 12, 35  
LOCAL GRID : 8831.74 N / 9728.76 E GLOBAL GRID : 13212.89 N / 17757.05 E  
LENGTH : 42.70 m INCLINATION : -59.5 degrees ELEVATION : 978.50 metres  
OVERBURDEN : 2.13 m CASING : 2.13 metres AZIMUTH : 294.0 degrees  
LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
DATE LOGGED : 1991/07/24 DATE DRILLED : 1991/07/23 CORE LOCATION: 86+30 N, 96+70 E  
Y/M/D Y/M/D SAMPLE NO. SERIES : 11317-11343

SUMMARY LOG

91-74

From(m)	To(m)	Field Name (Legend)
0.00	2.13	CASING
2.13	12.71	SULPHIDIC MUDSTONE AND CHERT (3.5)
12.71	18.00	TUFFACEOUS RHYOLITE (3.9) +/- GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)
18.00	34.00	SULPHIDIC MUDSTONE AND CHERT (3.5) 33.5 - 34.0 MASSIVE PYRITE
34.00	42.70	TUFFACEOUS RHYOLITE -SERICITE (3.9A)
42.70		END OF HOLE.

ANALYTICAL HIGHLIGHTS

91-74

From(m)	To(m)	Length(m)	Au g/t	Au Oz/ton	Ag g/t	Ag Oz/ton	% Pb	% Zn
16.40	21.80	5.40	0.64	0.019	2.2	0.06		

From(m)	To(m)	Description
0.00	2.13	CASING
2.13	12.71	SULPHIDIC MUDSTONE AND CHERT (3.5)
		<p>Lithology</p> <p>-Black, laminated, pyrite - chert dominated, younging up hole, fairly hard rock with blocky form. Core recoveries not very good. Bedding angles consistent.</p> <p>Structure</p> <p>-Bedding is at 40 - 45 degrees to c/a from 2.13 - 7.0m, and 45 - 50 degrees from 7.5 - 12.71m. Lower contact at 50 degrees to c/a, gradational.</p> <p>Alteration</p> <p>-Silicified, resulting in blocky-like nature of the core.</p> <p>Mineralization</p> <p>-Unmineralized, &lt;1% pyrite -syngenetic type.</p>
12.71	18.00	TUFFACEOUS RHYOLITE (3.9) +/- GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)
		<p>Lithology</p> <p>-Grey/black, 20 - 25% clastic material (mudstone fragments) in a sericite/silica volcanic matrix. Volcanic components include fragments, ash, and minor crystal like material.</p> <p>Structure</p> <p>-Foliation and/or bedding consistent 50 - 55 degrees to c/a. subtle transposed foliations or kink bands (wavy) throughout. Sericite and pyrite concentrated around clasts.</p> <p>Alteration</p> <p>-Weak sericite, silica alteration.</p> <p>Mineralization</p> <p>-Pyritic (both syngenetic and epigenetic?) from 12.71 - 18.0 metres. From 12.71 - 16.4m: 0.75 - 1% pyrite; 16.4 - 17.4m: 8 - 10% pyrite, lower 20cm of this interval has 25% pyrite, 17.4 - 18.0m: &lt;1% pyrite.</p>
18.00	34.00	SULPHIDIC MUDSTONE AND CHERT (3.5) 33.5 - 34.0 MASSIVE PYRITE
		<p>Lithology</p> <p>-Black, hard, blocky form, laminations not common, and where present they are both pyritic and silt/chert types. Poor core recoveries in key vein or fault zones, and only moderate recoveries in the undeformed zones. Graphitic slips/partings common.</p>

From(m)	To(m)	Description
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## Structure

-Core axis angles of bedding vary from 20 - 60 degrees, but a large grouping of angles from 45 - 50 degrees noted. Fault/vein structures @ 18.3 - 20.3 metres, very poor recoveries, with only 10cm of vein material; @ 30.5 - 32.5 metres also very poor recoveries, nearly all vein material absent.  
 -Lower contact undulating and gradational (30 - 50 degrees to c/a). Tops down hole based on 2 measurements of laminae and contact relationship.

## Alteration

-Silicified.

## Mineralization

-Possible mineralized/graphitic zones from 18.3 - 20.3m and 30.5 - 32.0 metres. Lost recoveries have resulted in the record being lost. Essentially the same structural relationships are present in this hole 91-72, but the mineralization is not apparent in 91-73.

34.00	42.70	TUFFACEOUS RHYOLITE -SERICITE (3.9A)
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## Lithology

-Greenish grey, brecciated texture, isolated fragmental sections, rhyolite to rhyodacitic composition range, no consistent % of matrix to breccia fragments. Fragments are both feldspathic, siliceous and volcanic. Imprint of sericitic alteration obscures the individual contacts.

## Structure

-Semi-massive, flow contacts @ 70 - 75 degrees where noted, excellent core recoveries.

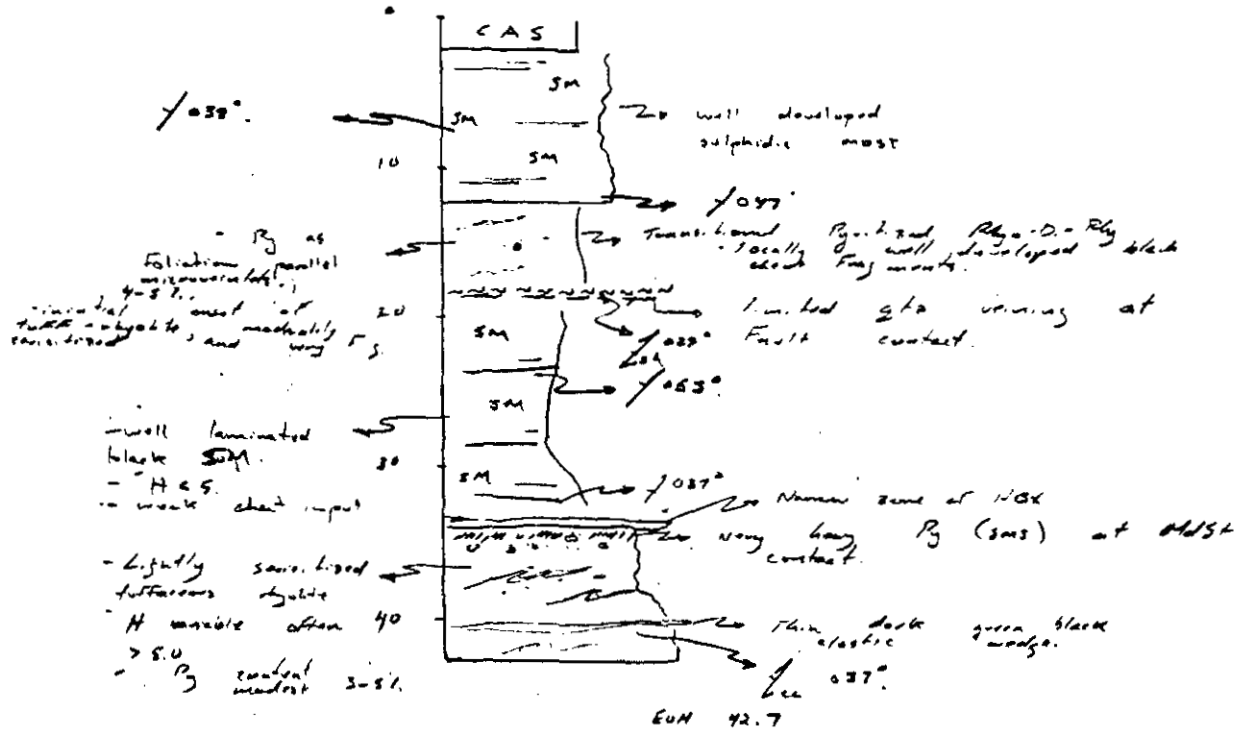
## Alteration

-Sericitized, weak to moderate, silica overprint; rock is very hard.

## Mineralization

-Unmineralized, trace pyrite.

42.70	END OF HOLE.
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Very rounded and well sorted; pieces present through  
 irregular lenses inferred.

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-74	11317	2.13	4.00	1.87	-	-	1	-	-	1.0	173	70	91	1415	88	24	253	24040	850
91-74	11318	4.00	6.00	2.00	-	-	2	-	-	0.9	290	92	107	1630	89	21	805	31840	1480
91-74	11319	6.00	8.00	2.00	-	-	1	-	-	0.8	215	98	125	1790	89	17	1132	36260	5770
91-74	11320	8.00	10.00	2.00	-	-	2	-	-	0.6	201	102	149	1420	81	19	753	34670	5740
91-74	11321	10.00	11.50	1.50	-	-	1	-	-	0.8	183	107	134	1520	81	18	993	30250	4990
91-74	11322	11.50	12.71	1.21	-	-	3	-	-	0.9	220	112	161	1595	95	25	978	31960	4380
91-74	11323	12.71	14.00	1.29	-	-	92	-	-	0.4	382	31	257	525	14	13	187	27810	2730
91-74	11324	14.00	15.30	1.30	-	-	128	-	-	0.7	282	32	170	560	11	18	197	19290	1640
91-74	11325	15.30	16.40	1.10	-	-	260	-	-	0.3	612	45	206	650	12	14	129	27440	3670
91-74	11326	16.40	17.40	1.00	-	-	400	-	-	0.1	1060	57	51	1190	11	10	96	85440	1850
91-74	11327	17.40	18.30	0.90	-	-	185	-	-	1.1	414	100	136	1175	40	17	428	27720	1150
91-74	11328	18.30	20.30	2.00	1.03	0.030	1000	-	-	4.7	629	2094	326	1700	53	17	653	27270	5700
91-74	11329	20.30	21.80	1.50	-	-	545	-	-	1.0	942	137	240	2470	72	14	659	36730	5150
91-74	11330	21.80	23.00	1.20	-	-	240	-	-	0.2	689	143	259	2300	77	9	663	38230	4730
91-74	11331	23.00	25.00	2.00	-	-	38	-	-	0.2	910	123	110	2130	74	10	495	47090	6570
91-74	11332	25.00	27.00	2.00	-	-	2	-	-	0.3	754	89	111	1860	74	10	587	41730	8270
91-74	11333	27.00	28.50	1.50	-	-	1	-	-	0.4	334	60	129	1350	59	11	489	33160	9290
91-74	11334	28.50	29.50	1.00	-	-	1	-	-	0.3	423	63	135	1275	65	12	432	39610	11140
91-74	11335	29.50	30.50	1.00	-	-	1	-	-	0.8	222	50	120	1310	43	16	328	34370	25110
91-74	11336	30.50	32.00	1.50	-	-	1	-	-	1.6	159	61	206	1200	64	21	376	35170	18340
91-74	11337	32.00	33.50	1.50	-	-	3	-	-	0.9	279	89	136	1585	75	18	839	35050	4330
91-74	11338	33.50	34.00	0.50	-	-	1	-	-	0.8	135	42	115	770	31	30	384	18330	1630
91-74	11339	34.00	35.50	1.50	-	-	1	-	-	0.8	89	15	323	-	9	24	182	16630	2790
91-74	11340	35.50	37.00	1.50	-	-	2	-	-	0.7	30	6	151	-	8	25	217	18660	2410
91-74	11341	37.00	39.00	2.00	-	-	1	-	-	0.8	38	4	110	-	5	12	105	16470	5470
91-74	11342	39.00	41.00	2.00	-	-	1	-	-	0.8	29	5	84	-	4	11	93	15280	5920
91-74	11343	41.00	42.70	1.70	-	-	1	-	-	1.0	37	4	130	-	5	11	70	8960	9890

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M.REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ45+46  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
11256	1.1	11200	124	5	254	1.9	2	4220	.1	2	7	14280	5470	3	2280	48	10	610	13	30	20	28	8	2	39	7.1	231	4	1	6	150	4	
11257	.8	9430	271	4	204	2.1	1	6730	.1	4	4	34290	4810	3	2430	98	34	70	1	10	20	32	11	1	41	3.3	169	2	1	4	116	1	
11258	.8	9530	181	2	247	2.0	1	5840	.1	3	4	22650	4810	2	2250	77	17	400	7	10	20	30	11	1	39	3.3	372	3	1	5	131	5	
11259	.3	8470	371	1	229	1.9	1	2890	.1	3	6	32440	4300	2	1870	41	35	450	5	10	21	38	7	1	38	3.6	167	1	1	4	103	40	
11260	.7	9410	1011	1	256	2.0	1	2830	.1	3	6	28600	4830	2	1990	36	25	70	12	10	17	53	8	1	40	4.8	193	2	1	4	91	269	
11261	2.1	7180	1363	1	214	1.2	1	740	.1	4	4	37210	3710	1	1040	26	54	580	11	10	14	55	2	1	34	3.5	126	1	1	5	134	870	
11262	2.9	8340	723	6	282	1.4	1	1390	.1	4	8	31430	4410	1	1210	54	82	70	24	20	20	59	4	4	31	3.7	138	1	3	5	111	770	
11263	.4	7300	304	4	408	1.6	1	780	.1	3	16	15960	3810	1	940	46	58	60	80	50	16	68	4	5	26	12.0	283	1	3	4	84	820	
11264	9.2	9980	1552	5	179	1.4	1	4960	.1	5	27	27330	3290	1	1440	93	42	800	27	120	16	925	20	2	34	20.2	296	1	2	5	106	3850	
11265	35.2	21070	3842	6	191	1.4	1	5660	.1	8	35	31010	4410	1	2560	149	29	1340	18	40	15	10963	34	1	73	44.3	226	2	4	6	108	10625	
11266	48.8	2480	273	2	1167	.7	1	860	1.6	3	25	8440	1160	1	460	41	12	1000	19	10	15	694	4	1	14	14.4	263	1	2	6	149	1430	
11267	24.6	6360	285	3	283	1.7	1	4680	4.7	8	59	26120	2990	1	1550	128	35	580	70	360	22	192	10	1	28	28.0	597	1	2	4	84	1750	
11268	1.5	8500	178	6	154	3.0	1	6040	15.6	11	127	38830	4400	1	2180	167	68	940	141	720	43	169	13	1	38	74.6	1535	1	1	2	33	1740	
11269	1.6	8090	195	6	169	2.8	1	5640	10.8	11	116	37520	4240	1	2030	149	70	640	159	520	42	159	11	1	38	53.9	1138	1	2	2	27	1550	
11270	.7	8320	208	6	224	2.4	1	5450	3.5	12	83	42150	4360	1	1890	132	72	950	133	550	29	135	11	1	47	57.8	669	1	1	3	42	1440	
11271	1.1	5950	154	4	109	1.9	1	6590	8.5	10	78	35470	3240	1	2320	229	33	720	90	410	15	93	13	1	30	36.4	835	1	1	1	20	1500	
11272	1.1	8000	141	6	151	2.0	2	7140	10.1	9	74	35120	4460	1	2910	222	23	670	64	280	13	77	22	1	36	38.4	832	1	2	2	27	1280	
11273	1.6	7390	143	5	135	1.8	2	10740	11.3	9	78	33970	3910	1	4330	290	15	730	49	710	18	64	29	1	35	54.4	798	1	2	2	37	1360	
11274	2.5	6200	128	6	114	1.6	1	9490	6.5	10	82	39740	3440	1	4050	295	23	500	39	350	14	64	25	1	29	35.1	549	1	2	2	32	1200	
11279	.9	4630	61	1	65	1.6	1	11670	.1	2	4	11870	2730	1	5070	211	9	320	1	40	19	5	38	2	35	2.9	107	3	1	11	292	1	
11280	.7	4580	31	1	55	1.4	1	6700	.1	1	3	8570	2610	1	2910	142	7	450	1	10	17	5	16	2	48	1.9	84	3	1	7	191	5	
11281	.4	6960	243	1	129	1.2	2	1330	.1	6	24	26310	3710	1	1110	27	35	610	35	40	21	53	3	1	36	14.1	187	1	1	5	121	2	
11282	.5	7740	180	1	138	1.2	2	3260	.1	3	12	21930	4110	2	2090	36	27	490	24	30	24	51	8	1	32	6.2	175	2	1	5	113	20	
11286	.5	7950	522	1	145	1.5	1	3770	.1	4	6	33310	4170	2	2210	30	34	60	1	40	21	32	7	1	36	3.3	165	2	1	5	134	1	
11287	.7	9440	144	1	177	1.9	2	5010	.1	2	6	16510	4940	3	2340	38	16	380	12	20	20	38	8	2	43	4.9	216	3	1	4	89	2	
11288	1.2	7770	398	1	245	1.7	2	5140	.1	2	5	20430	3970	2	2630	42	15	60	3	20	23	42	14	3	40	2.5	168	4	1	7	165	126	
11289	1.2	6360	115	1	150	1.4	2	12440	.1	2	2	14980	3450	1	3200	150	12	60	2	10	20	22	28	2	36	2.2	110	3	1	5	118	10	
11290	.8	8310	251	1	182	1.9	2	4850	.1	2	4	16910	4400	2	2140	51	19	60	6	10	20	22	10	1	38	2.9	141	3	1	8	217	24	
11291	.5	5810	257	1	135	1.7	1	4220	.1	2	4	21330	3130	1	2100	44	22	610	10	10	21	28	9	1	38	2.8	126	2	1	4	113	5	
11292	.4	7630	263	1	191	1.9	1	2540	.1	3	7	29920	4080	2	1760	28	35	320	5	10	22	36	6	1	23	4.6	153	2	1	5	150	2	
11293	.7	8490	704	1	245	1.8	2	2730	.1	3	7	24380	4520	2	1950	28	27	60	5	20	19	51	7	1	36	4.5	181	2	1	4	89	58	
11294	.9	8240	2101	1	263	1.5	2	3950	.1	3	7	25230	4370	2	2220	59	31	60	11	10	20	87	10	1	39	4.8	151	2	1	5	125	390	
11295	.2	6530	3140	1	235	1.2	1	2130	.1	6	4	62150	3590	1	1290	33	63	470	1	10	19	107	5	1	35	3.4	106	1	1	2	57	1065	
11297	.1	6200	1897	6	269	.8	1	860	.1	4	10	41600	3290	1	760	27	47	50	1	30	16	65	2	3	31	3.4	87	1	14	2	50	1460	
11298	.1	5360	878	5	260	.9	1	690	.1	3	11	28440	2880	1	610	30	60	40	12	60	14	97	3	5	21	3.2	134	1	1	2	28	985	
11299	.7	7280	216	4	347	1.0	1	1340	1.1	4	30	17900	3750	1	790	55	54	840	51	210	19	69	4	4	21	23.8	409	1	3	2	40	1840	
11300	.3	7060	1362	5	411	1.0	1	660	.1	3	13	23950	3640	1	730	35	60	60	6	50	17	62	4	6	19	4.0	166	1	1	2	33	1255	
11312	2.1	3350	121	3	86	.8	3	81510	2.4	6	45	22160	1960	1	3030	2253	19	890	45	430	26	72	119	1	16	23.8	273	3	1	1	6	1090	
11313	2.6	7640	104	4	126	2.1	1	7480	20.9	8	92	28310	4160	1	2940	222	21	890	76	330	17	109	14	1	25	60.6	1217	1	1	1	28	1630	
11314	2.3	6560	99	4	99	1.7	1	11140	11.5	10	91	35540	3490	1	4890	322	18	690	54	320	20	100	25	1	23	48.3	750	1	2	1	9	1120	
11315	1.4	9600	94	1	129	2.1	1	13860	1.0	9	56	32330	5080	1	6900	351	15	560	28	450	16	62	32	1	46	38.6	348	2	1	2	28	2	
11316	1.0	4170	120	1	33	1.0	2	9530	.1	1	3	8460	1820	1	4950	158	7	420	1	30	19	5	22	1	30	2.3	80	4	1	7	181	1	
11317	1.0	3960	173	2	91	.8	1	850	.2	6	88	24040	2020	1	500	73	46	610	78	200	24	70	10	1	25	30.2	253	1	1	2	40	1	1415
11318	.9	6410	290	3	107	2.1	1	1480	7.6	9	89	31840	3130	2	920	75	57	660	131	340	21	92	7	1	29	42.5	805	1	3	2	25	2	1630
11319	.8	7150	215	3	125	2.1	1	5770	13.0	11	89	36260	3450	2	2220	174	47	640	106	640	17	98	14	2	32	43.6	1132	1	3	1	19	1	1790
11320	.6	7410	201	3	149	1.9	1	5740	6.1	10	81	34670	3640	1	2250	151	52	520	109	610	19	102	15	1	31	42.4	753	1	2	1	24	2	1420
11321	.8	6420	183	3	134	1.6	1	4990	10.8	9	81	30250	3150	1	1850	131	51	470	107	610	18	107	14	1	30	50.4	993	1	3	1	20	1	1520
11322</																																	



COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M.REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ47+48  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
11331	.2	3990	910	2	110	1.5	1	6570	1.3	13	74	47090	1790	1	2140	310	42	530	101	640	10	123	13	1	15	18.6	495	1	1	1	12	38	2130
11332	.3	4860	754	1	111	1.6	1	8270	1.3	13	74	41730	1940	3	4350	342	30	450	67	910	10	89	30	1	18	26.1	587	1	1	1	23	2	1860
11333	.4	5670	334	1	129	1.3	1	9290	2.2	11	59	33160	2450	3	4800	363	21	490	54	540	11	60	38	1	19	37.8	489	1	1	2	32	1	1350
11334	.3	5850	423	2	135	1.3	1	11140	.9	11	65	39610	2560	6	7060	471	30	520	61	350	12	63	47	1	21	40.3	432	1	4	2	44	1	1275
11335	.8	5600	222	2	120	1.3	1	25110	1.4	10	43	34370	2660	4	13490	2085	22	770	26	1520	16	50	125	1	21	33.5	328	1	2	2	23	1	1310
11336	1.6	7460	159	3	206	2.1	1	18340	1.8	10	64	35170	3820	1	8610	1189	22	1090	41	750	21	61	77	1	35	42.8	376	1	1	3	56	1	1200
11337	.9	6260	279	3	136	2.1	1	4330	6.6	10	75	35050	3370	1	930	173	49	660	94	610	18	89	12	1	26	38.8	839	1	2	3	61	3	1585
11338	.8	4820	135	1	115	1.9	1	1630	1.0	5	31	18330	2660	1	580	79	32	600	64	280	30	42	6	3	29	11.7	384	1	1	5	109	1	770
11339	.8	6720	89	1	323	3.1	1	2790	.1	2	9	16630	3650	1	1700	86	9	110	1	50	24	15	11	8	33	.7	182	2	1	3	67	1	1
11340	.7	11580	30	1	151	3.5	2	2410	.1	2	8	18660	5290	6	6460	235	3	60	1	60	25	6	9	10	60	1.9	217	4	1	3	54	2	1
11341	.8	8220	38	1	110	2.7	1	5470	.1	2	5	16470	3940	4	6680	223	4	60	1	40	12	4	19	7	51	2.1	105	4	1	4	83	1	1
11342	.8	6410	29	1	84	2.6	1	5920	.1	2	4	15280	3310	3	4650	168	37	80	1	40	11	5	20	6	43	1.5	93	3	1	4	79	1	1
11343	1.0	3470	37	1	130	1.7	1	9890	.1	1	5	8960	2210	1	2610	170	6	170	4	20	11	4	25	5	37	1.3	70	2	1	5	117	1	1
11344	.9	3970	99	9	162	1.2	1	3580	.1	2	7	10650	2120	2	930	35	6	350	5	10	29	23	10	1	21	1.3	143	1	1	4	96	19	1
11345	1.0	3220	372	6	69	.9	1	8070	.1	1	6	11200	1800	1	720	87	10	480	1	10	29	30	11	1	17	1.2	121	1	1	3	87	43	1
11346	1.3	5070	802	7	92	.9	2	8190	.1	2	6	13540	2800	1	1190	64	8	40	3	20	23	49	13	1	27	1.1	118	1	1	4	89	238	1
11347	1.0	4260	963	6	234	.7	1	3710	.1	4	11	31420	2300	1	730	30	16	530	7	10	25	134	5	1	24	3.3	154	1	3	4	111	210	3800
11348	2.0	4260	805	4	88	.7	1	3620	.1	3	13	14190	2160	1	750	40	17	390	20	10	23	63	6	1	18	6.4	166	1	2	7	166	417	1100
11349	2.4	2090	226	4	40	.4	1	710	1.3	3	28	13050	1090	1	320	46	25	1210	39	10	21	57	2	1	17	15.7	277	1	9	7	177	120	700
11350	1.7	2030	458	4	45	.1	1	1300	.9	4	24	30440	1070	1	330	58	15	1300	26	10	23	200	2	1	14	14.7	295	1	2	7	193	162	5340
11351	1.5	2880	560	1	55	1.3	1	740	.1	4	10	36970	1610	1	560	22	20	30	16	30	18	100	4	2	14	1.8	158	1	3	3	84	164	3900
11352	2.3	1640	653	1	40	.7	1	720	.1	4	26	27290	920	1	440	61	18	30	40	30	20	132	3	1	11	6.8	295	1	3	8	199	262	4900
11353	.7	3260	515	4	51	1.2	1	1320	.4	7	43	27310	1850	2	810	84	25	560	57	120	13	93	11	1	16	20.0	395	1	1	4	81	120	1455
11354	1.0	3620	354	2	55	1.5	1	630	4.4	6	47	22480	1980	2	590	70	34	440	77	190	15	88	5	1	15	24.5	571	1	3	2	46	60	1000
11355	1.2	5650	380	1	77	1.7	1	8360	.1	2	9	22710	3060	2	3560	100	16	50	5	30	25	58	38	3	19	2.5	162	1	2	3	73	85	715
11356	.9	6260	136	1	89	1.7	1	1720	.1	1	6	11620	3320	2	1420	23	10	40	12	30	22	31	8	3	20	1.5	201	1	2	2	53	7	400
11357	.8	8400	278	1	120	2.4	1	1100	.1	2	8	16390	4340	2	1520	22	10	60	5	30	20	29	6	3	22	1.7	217	2	19	3	63	4	280
11358	.3	5240	240	1	244	1.4	2	2040	.1	3	8	30150	2940	2	1310	46	25	40	11	30	22	38	9	2	22	1.3	188	1	2	3	63	25	445
11359	.1	5560	1408	4	73	1.6	1	3120	.1	7	7	92040	3070	2	1530	75	76	40	1	30	25	61	8	1	17	.1	171	1	1	2	42	355	965
11360	.1	7480	1198	5	92	1.3	1	3390	.1	7	10	84000	4110	2	2090	82	68	50	1	40	20	56	19	1	25	.2	142	1	11	1	27	685	675
11361	.8	5710	318	1	79	1.5	1	1480	.4	7	41	28380	2990	2	940	76	49	660	75	220	27	72	6	1	22	23.6	385	1	2	3	61	111	890
11362	.4	5810	354	1	77	1.5	1	1630	.1	4	22	28720	3120	1	1150	71	42	430	26	80	20	42	8	1	22	8.5	209	1	1	3	56	138	615
11363	.7	5790	236	1	76	1.2	1	11230	.1	3	13	22660	3270	2	1660	206	21	710	7	70	23	28	18	4	30	3.1	220	1	2	2	52	34	470
11364	.8	8210	96	1	101	2.2	1	5600	.1	2	7	14660	4230	3	2130	87	15	940	3	60	28	17	11	5	27	1.1	180	2	1	2	43	2	290
11365	.5	5680	160	1	166	1.7	1	2800	.5	5	35	26860	3050	1	1060	113	30	580	39	340	25	42	6	1	26	10.5	375	1	1	2	39	1	805
11366	1.0	5740	123	1	91	1.7	1	6990	6.9	9	72	30110	3130	1	1080	260	40	650	86	570	21	76	10	1	22	34.5	801	1	1	2	35	4	1010
11367	1.1	5730	106	1	94	1.6	1	15960	6.1	8	59	29400	3230	1	1250	499	41	360	78	630	16	65	19	1	21	28.9	624	1	2	1	27	2	1110
11368	.9	6110	100	1	129	1.6	1	23060	7.6	9	73	33820	3430	1	1420	627	48	420	96	680	14	71	27	1	23	37.3	795	1	1	1	27	1	1255
11369	.9	5420	95	1	75	1.3	1	20710	7.1	8	64	30500	3040	1	1190	640	43	600	77	630	15	59	24	1	20	32.3	692	1	1	2	35	2	1175
11370	.8	3810	53	1	52	1.1	1	5290	3.6	3	26	12690	1900	1	1770	157	19	80	31	220	11	23	13	1	13	15.4	377	1	2	4	94	1	525
11371	1.0	7130	24	4	70	1.8	1	8670	.1	1	5	8520	2890	5	6820	192																	



**MINERAL  
• ENVIRONMENTS  
LABORATORIES**  
(DIVISION OF ASSAYERS CORP.)

91-74

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

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Assay Certificate 1S-0279-RA1

Company: COPELAND, REBAGLIATI & ASSOC.  
Project: 9101  
Attn: MARK REBAGLIATI

Date: AUG-08-91  
Copy 1. COPELAND, REBAGLIATI, VANCOUVER, B.C.

*We hereby certify the following Assay of 2 CORE samples submitted JUL-31-91 by RICHARD HASLINGER.*

Sample Number	AU g/tonne	AU oz/ton
11328	1.03	.030

Certified by 

COPELAND REBAGLIATI & ASSOCIATES LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-75  
 SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 104B/9 CLAIM # : SIB 12, 33, 35  
 LOCAL GRID : 8872.15 N / 9718.45 E GLOBAL GRID : 13253.62 N / 17766.03 E  
 LENGTH : 51.80 m INCLINATION : -82.0 degrees ELEVATION : 984.76 metres  
 OVERBURDEN : 3.05 m CASING : 3.05 metres AZIMUTH : 118.0 degrees  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/24 DATE DRILLED : 1991/07/24 CORE LOCATION: 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 11344-11377

SUMMARY LOG 91-75

From(m)	To(m)	Field Name (Legend)
0.00	3.05	CASING
3.05	12.50	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
12.50	17.30	SULPHIDIC MUDSTONE AND CHERT (3.5) AND TURBIDITIC MUDSTONE (3.6)
17.30	23.00	TUFFACEOUS RHYOLITE (3.9)
23.00	25.00	SULPHIDIC MUDSTONE AND CHERT (3.5), TURBIDITIC MUDSTONE (3.6)
25.00	26.50	TUFFACEOUS RHYOLITE (3.9), SULPHIDIC MUDSTONE AND CHERT(3.5) AND TURBIDITIC MUDSTONE (3.6)
26.50	28.50	TUFFACEOUS RHYOLITE (3.9)
28.50	36.80	TURBIDITIC MUDSTONE (3.6), SULPHIDIC MUDSTONE AND CHERT (3.5)
36.80	51.80	TUFFACEOUS RHYOLITE -SERICITE (3.9a) +/- RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
51.80		END OF HOLE.

ANALYTICAL HIGHLIGHTS 91-75

From(m)	To(m)	Length(m)	Au g/t	Au Oz/ton	Ag g/t	Ag Oz/ton	% Pb	% Zn
10.65	11.65	1.00	0.42	0.012	2.0	0.06		
22.00	23.50	1.50	0.47	0.014	0.1	4.92		

From(m) To(m) -----Description-----

0.00 3.05 CASING  
 3.05 12.50 TUFFACEOUS RHYOLITE -SERICITE (3.9a)

Lithology <3.05>-<8.5>

-Breccia type flow; grey, very hard, siliceous, foliated and massive, fractured. Unities deformed and original textures are obliterated.

Structure

-Foliated, fractured, possibly because this unit rests with a shear/fault zone. Some zones are fractured/foliated, others are more massive. Measurements not reliable. Lower contact is very sharp.

Alteration

-Silicified very weak carbonate overprint, carbonate veinlets common.

Mineralization

-Unmineralized.

12.50 17.30 SULPHIDIC MUDSTONE AND CHERT (3.5) AND TURBIDITIC MUDSTONE (3.6)

Lithology <8.5>-<17.3>

-Black, hard, silicified, micro-fracturing common, original laminae are transposed and measurements are not reliable. Interbedded heterolithic material from 9.15 - 10.65m, 13.5 - 14.5m. These interbeds are sheared/transposed.

Structure

-Shearing and fracturing of unit to lower contact. Fracturing has permitted for the introduction of epigenetic, sulphidic sections.

Alteration

-Silicification -moderate, mudstone resembles a black rhyolite.

Mineralization

-Epigenetic quartz - pyrite veinlets common, especially from 8.5 - 9.5 metres, 15.5 - 17.3 metres. These cross-cutting veinlets have numerous orientations to c/a. The veins are semi-massive pyrite in a quartz matrix. Only 1 vein @ 16.35m may contain arsenopyrite. Some of the veins from 16.2 - 17.3m resemble the footwall mineralization in previous holes.

17.30 23.00 TUFFACEOUS RHYOLITE (3.9)  
 23.00 25.00 SULPHIDIC MUDSTONE AND CHERT (3.5), TURBIDITIC MUDSTONE (3.6)  
 25.00 26.50 TUFFACEOUS RHYOLITE (3.9), SULPHIDIC MUDSTONE AND CHERT(3.5) AND TURBIDITIC MUDSTONE (3.6)  
 26.50 28.50 TUFFACEOUS RHYOLITE (3.9)

Lithology

-Multicoloured, with shades of grey, black and greenish, upper section from 17.3 - 23.5 may be a felsic flow, but deformation / alteration have reset the whole textural framework. Isolated silicified mudstone "beds" from 23.5 - 25.5 metres. This tuff contains numerous late 15cm mudstone rich intervals, and in less clastic rich felsic rocks, clasts of mudstone are "deformed looking"

From(m)	To(m)	Description
---------	-------	-------------

## Structure

-Still within the fault / shear zone, based on the fabric and degree of alteration. Foliations and lithology contact angles vary significantly. Mudstones appear embedded in felsics, and felsics appear to have digested mudstone clasts. Lower contact is gradational from 28.0 - 28.5 metres.

## Alteration

-Sericitization of the volcanics, silicification of both units as an overprint.

## Mineralization

-Syngenetic sulphides common in the volcanics. Bands of 5 - 10% pyrite in 4 places, generally there is 3 - 5% fine pyrite within the volcanics. Mudstone like beds have 2 - 3% pyrite, mostly syngenetic. These does not appear to be an epigenetic overprint or mineralization in this section.

28.50	36.80	TURBIDITIC MUDSTONE (3.6), SULPHIDIC MUDSTONE AND CHERT (3.5)
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## Lithology

-Black, hard, siliceous, laminated. Pyrite / chert dominated, these thin beds often refolded, but not severely. Both fissile and blocky intervals are present. Younging direction is not reliable.

## Structure

-Shearing common, graphitic partings common in the lower 2.0 metres. The lower contact is faulted, with a 15cm gouge zone. The angles at the contact are at 40 - 60 degrees to c/a. Fracturing in certain sections may have resulted in some secondary mineralization.

## Alteration

-Silicification, moderate, rock is hard.

## Mineralization

-Most of the mineralization is syngenetic. Pyrite laminae are common. Epigenetic? pyrite or other sulphides? between 30.5 and 33.0m. This may be a unique fracture / deformation feature. Average of 1% pyrite in the unit.

36.80	51.80	TUFFACEOUS RHYOLITE -SERICITE (3.9a) +/- RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
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## Lithology

-Greenish grey, mottled, contorted and foliated in part, massive to semi-massive in part also deformation / alteration has destroyed the original textures.

## Structure

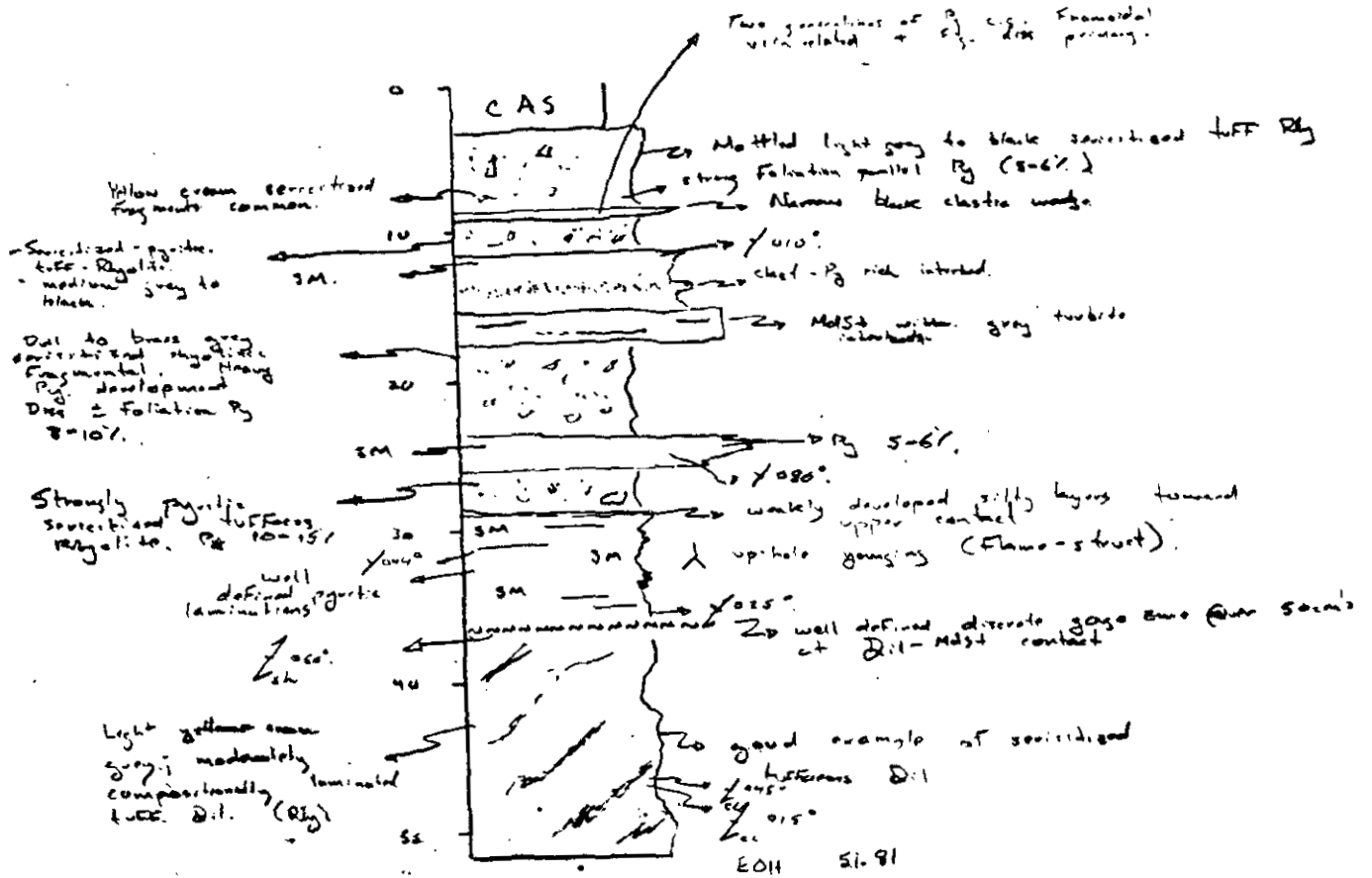
-Semi-massive to foliated (transposed). Unoriented throughout. Some "thin" shear zones present, but not significant. This may be the footwall volcanics.

From(m) To(m) -----Description-----

Alteration  
-Sericitized -weak to moderate, silicified -moderately.

Mineralization  
-Unmineralized.  
Note: Excellent core recoveries over these intervals.

51.80 END OF HOLE.



HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-75	11344	3.05	6.00	2.95	-	-	19	-	-	0.9	99	23	162	-	7	29	143	10650	3580
91-75	11345	6.00	7.00	1.00	-	-	43	-	-	1.0	372	30	69	-	6	29	121	11200	8070
91-75	11346	7.00	8.50	1.50	-	-	238	-	-	1.3	802	49	92	-	6	23	118	13540	8190
91-75	11347	8.50	10.65	2.15	-	-	210	-	-	1.0	963	134	234	3800	11	25	154	31420	3710
91-75	11348	10.65	11.65	1.00	-	-	417	-	-	2.0	805	63	88	1100	13	23	166	14190	3620
91-75	11349	11.65	12.50	0.85	-	-	120	-	-	2.4	226	57	40	700	28	21	277	13050	710
91-75	11350	12.50	13.50	1.00	-	-	162	-	-	1.7	458	200	45	5340	24	23	295	30440	1300
91-75	11351	13.50	14.50	1.00	-	-	164	-	-	1.5	560	100	55	3900	10	18	158	36970	740
91-75	11352	14.50	15.50	1.00	-	-	262	-	-	2.3	653	132	40	4900	26	20	295	27290	720
91-75	11353	15.50	16.50	1.00	-	-	120	-	-	0.7	515	93	51	1455	43	13	395	27310	1320
91-75	11354	16.50	17.30	0.80	-	-	60	-	-	1.0	354	88	55	1000	47	15	571	22480	630
91-75	11355	17.30	18.00	0.70	-	-	85	-	-	1.2	380	58	77	715	9	25	162	22710	8360
91-75	11356	18.00	19.50	1.50	-	-	7	-	-	0.9	136	31	89	400	6	22	201	11620	1720
91-75	11357	19.50	21.00	1.50	-	-	4	-	-	0.8	278	29	120	280	8	20	217	16390	1100
91-75	11358	21.00	22.00	1.00	-	-	25	-	-	0.3	240	38	244	445	8	22	188	30150	2040
91-75	11359	22.00	23.00	1.00	-	-	355	-	-	0.1	1408	61	73	965	7	25	171	92040	3120
91-75	11360	23.00	23.50	0.50	-	-	685	-	-	0.1	1198	56	92	675	10	20	142	84000	3390
91-75	11361	23.50	24.50	1.00	-	-	111	-	-	0.8	318	72	79	890	41	27	385	28380	1480
91-75	11362	24.50	25.50	1.00	-	-	138	-	-	0.4	354	42	77	615	22	20	209	28720	1630
91-75	11363	25.50	27.00	1.50	-	-	34	-	-	0.7	236	28	76	470	13	23	220	22660	11230
91-75	11364	27.00	28.50	1.50	-	-	2	-	-	0.8	96	17	101	290	7	28	180	14660	5600
91-75	11365	28.30	30.00	1.70	-	-	1	-	-	0.5	160	42	166	805	35	25	375	26860	2800
91-75	11366	30.00	31.50	1.50	-	-	4	-	-	1.0	123	76	91	1010	72	21	801	30110	6990
91-75	11367	31.50	33.00	1.50	-	-	2	-	-	1.1	106	65	94	1110	59	16	624	29400	15960
91-75	11368	33.00	34.50	1.50	-	-	1	-	-	0.9	100	71	129	1255	73	14	795	33820	23060
91-75	11369	34.50	36.00	1.50	-	-	2	-	-	0.9	95	59	75	1175	64	15	692	30500	20710
91-75	11370	36.00	37.00	1.00	-	-	1	-	-	0.8	53	23	52	525	26	11	377	12690	5290
91-75	11371	37.00	39.00	2.00	-	-	19	-	-	1.0	24	6	70	-	5	23	108	8520	8670
91-75	11372	39.00	41.00	2.00	-	-	13	-	-	0.9	26	3	81	-	5	26	98	10560	9760
91-75	11373	41.00	43.00	2.00	-	-	4	-	-	0.9	25	3	73	-	5	44	101	9320	6970
91-75	11374	43.00	45.00	2.00	-	-	4	-	-	0.9	21	3	79	-	5	23	109	6290	7210
91-75	11375	45.00	47.00	2.00	-	-	11	-	-	1.0	31	5	103	-	6	24	115	9680	8460
91-75	11376	47.00	49.00	2.00	-	-	3	-	-	1.0	25	3	90	-	5	23	100	8730	6750
91-75	11377	49.00	51.81	2.81	-	-	2	-	-	0.9	29	3	68	-	5	21	102	9860	6150



COMP: COPELAND, REBAGLIATI & ASSOC.

PROJ: 9101

ATTN: M.REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ47+48

DATE: 91/10/17

\* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
11331	.2	3990	910	2	110	1.5	1	6570	1.3	13	74	47090	1790	1	2140	310	42	530	101	640	10	123	13	1	15	18.6	495	1	1	1	12	38	2130
11332	.3	4860	754	1	111	1.6	1	8270	1.3	13	74	41730	1940	3	4350	342	30	450	67	910	10	89	30	1	18	26.1	587	1	1	1	23	2	1860
11333	.4	5670	334	1	129	1.3	1	9290	2.2	11	59	33160	2450	3	4800	363	21	490	54	540	11	60	38	1	19	37.8	489	1	1	2	32	1	1350
11334	.3	5850	423	2	135	1.3	1	11140	.9	11	65	39610	2560	6	7060	471	30	520	61	350	12	63	47	1	21	40.3	432	1	4	2	44	1	1275
11335	.8	5600	222	2	120	1.3	1	25110	1.4	10	43	34370	2660	4	13490	2085	22	770	26	1520	16	50	125	1	21	33.5	328	1	2	2	23	1	1310
11336	1.6	7460	159	3	206	2.1	1	18340	1.8	10	64	35170	3820	1	8610	1189	22	1090	41	750	21	61	77	1	35	42.8	376	1	1	3	56	1	1200
11337	.9	6260	279	3	136	2.1	1	4330	6.6	10	75	35050	3370	1	930	173	49	660	94	610	18	89	12	1	26	38.8	839	1	2	3	61	3	1585
11338	.8	4820	135	1	115	1.9	1	1630	1.0	5	31	18330	2660	1	580	79	32	600	64	280	30	42	6	3	29	11.7	384	1	1	5	109	1	770
11339	.8	6720	89	1	323	3.1	1	2790	.1	2	9	16630	3650	1	1700	86	9	110	1	50	24	15	11	8	33	.7	182	2	1	3	67	1	1
11340	.7	11580	30	1	151	3.5	2	2410	.1	2	8	18660	5290	6	6460	235	3	60	1	60	25	6	9	10	60	1.9	217	4	1	3	54	2	2
11341	.8	8220	38	1	110	2.7	1	5470	.1	2	5	16470	3940	4	6680	223	4	60	1	40	12	4	19	7	51	2.1	105	4	1	4	83	1	1
11342	.8	6410	29	1	84	2.6	1	5920	.1	2	4	15280	3310	3	4650	168	37	80	1	40	11	5	20	6	43	1.5	93	3	1	4	79	1	1
11343	1.0	3470	37	1	130	1.7	1	9890	.1	1	5	8960	2210	1	2610	170	6	170	4	20	11	4	25	5	37	1.3	70	2	1	5	117	1	1
11344	.9	3970	99	9	162	1.2	1	3580	.1	2	7	10650	2120	2	930	35	6	350	5	10	29	23	10	1	21	1.3	143	1	1	4	96	19	1
11345	1.0	3220	372	6	69	.9	1	8070	.1	1	6	11200	1800	1	720	87	10	480	1	10	29	30	11	1	17	1.2	121	1	1	3	87	43	1
11346	1.3	5070	802	7	92	.9	2	8190	.1	2	6	13540	2800	1	1190	64	8	40	3	20	23	49	13	1	27	1.1	118	1	1	4	89	238	1
11347	1.0	4260	963	6	234	.7	1	3710	.1	4	11	31420	2300	1	730	30	16	530	7	10	25	134	5	1	24	3.3	154	1	3	4	111	210	3800
11348	2.0	4260	805	4	88	.7	1	3620	.1	3	13	14190	2160	1	750	40	17	390	20	10	23	63	6	1	18	6.4	166	1	2	7	166	417	1100
11349	2.4	2090	226	4	40	.4	1	710	1.3	3	28	13050	1090	1	320	46	25	1210	39	10	21	57	2	1	17	15.7	277	1	9	7	177	120	700
11350	1.7	2030	458	4	45	.1	1	1300	.9	4	24	30440	1070	1	330	58	15	1300	26	10	23	200	2	1	14	14.7	295	1	2	7	193	162	5340
11351	1.5	2880	560	1	55	1.3	1	740	.1	4	10	36970	1610	1	560	22	20	30	16	30	18	100	4	2	14	1.8	158	1	3	3	84	164	3900
11352	2.3	1640	653	1	40	.7	1	720	.1	4	26	27290	920	1	440	61	18	30	40	30	20	132	3	1	11	6.8	295	1	3	8	199	262	4900
11353	.7	3260	515	4	51	1.2	1	1320	.4	7	43	27310	1850	2	810	84	25	560	57	120	13	93	11	1	16	20.0	395	1	1	4	81	120	1455
11354	1.0	3620	354	2	55	1.5	1	630	4.4	6	47	22480	1980	2	590	70	34	440	77	190	15	88	5	1	15	24.5	571	1	3	2	46	60	1000
11355	1.2	5650	380	1	77	1.7	1	8360	.1	2	9	22710	3060	2	3560	100	16	50	5	30	25	58	38	3	19	2.5	162	1	2	3	73	85	715
11356	.9	6260	136	1	89	1.7	1	1720	.1	1	6	11620	3320	2	1420	23	10	40	12	30	22	31	8	3	20	1.5	201	1	2	2	53	7	400
11357	.8	8400	278	1	120	2.4	1	1100	.1	2	8	16390	4340	2	1520	22	10	60	5	30	20	29	6	3	22	1.7	217	2	19	3	63	4	280
11358	.3	5240	240	1	244	1.4	2	2040	.1	3	8	30150	2940	2	1310	46	25	40	11	30	22	38	9	2	22	1.3	188	1	2	3	63	25	445
11359	.1	5560	1408	4	73	1.6	1	3120	.1	7	7	92040	3070	2	1530	75	76	40	1	30	25	61	8	1	17	.1	171	1	1	2	42	355	965
11360	.1	7480	1198	5	92	1.3	1	3390	.1	7	10	84000	4110	2	2090	82	68	50	1	40	20	56	19	1	25	.2	142	1	11	1	27	685	675
11361	.8	5710	318	1	79	1.5	1	1480	.4	7	41	28380	2990	2	940	76	49	660	75	220	27	72	6	1	22	23.6	385	1	2	3	61	111	890
11362	.4	5810	354	1	77	1.5	1	1630	.1	4	22	28720	3120	1	1150	71	42	430	26	80	20	42	8	1	22	8.5	209	1	1	3	56	138	615
11363	.7	5790	236	1	76	1.2	1	11230	.1	3	13	22660	3270	2	1660	206	21	710	7	70	23	28	18	4	30	3.1	220	1	2	2	52	34	470
11364	.8	8210	96	1	101	2.2	1	5600	.1	2	7	14660	4230	3	2130	87	15	940	3	60	28	17	11	5	27	1.1	180	2	1	2	43	2	290
11365	.5	5680	160	1	166	1.7	1	2800	.5	5	35	26860	3050	1	1060	113	30	580	39	340	25	42	6	1	26	10.5	375	1	1	2	39	1	805
11366	1.0	5740	123	1	91	1.7	1	6990	6.9	9	72	30110	3130	1	1080	260	40	650	86	570	21	76	10	1	22	34.5	801	1	1	2	35	4	1010
11367	1.1	5730	106	1	94	1.6	1	15960	6.1	8	59	29400	3230	1	1250	499	41	360	78	630	16	65	19	1	21	28.9	624	1	2	1	27	2	1110
11368	.9	6110	100	1	129	1.6	1	23060	7.6	9	73	33820	3430	1	1420	627	48	420	96	680	14	71	27	1	23	37.3	795	1	1	1	27	1	1255
11369	.9	5420	95	1	75	1.3	1	20710	7.1	8	64	30500	3040	1	1190	640	43	600	77	630	15	59	24	1	20	32.3	692	1	1	2	35	2	1175
11370	.8	3810	53	1	52	1.1	1	5290	3.6	3	26	12690	1900	1	1770	157	19	80	31	220	11	23	13	1	13	13.4	377	1	2	4	94	1	525
11371	1.0	7130	24	4	70	1.8	1	8670	.1	1	5	8520	2890	5	6820	192	10	300	1	20	23	6	18	1	21	2.1	108	4	1	4	86	19	1
11372	.9	10680	26	5	81	2.0	2	9760	.1	1	5	10560	3720	9	10000	309	6	170	3	20	26	3	19	1	31	2.2	98	5	1	6	137	13	1
11373	.9	10020	25	4	73	2.0	2	6970	.1	1	5	9320	3190	9	8830	181	11	280	1	10	44	3	13	2	31	2.0	101	5	1	5	102	4	1
11374	.9	9480	21	4	79	3.0	2	7210	.1	1	5	6290	3780	6	6000	140	18	510	2	10	23	3	11	2	33	1.4	109	4	1	4	94	4	1
11375	1.0	11390	31	4	103	2.6	2	8460	.1	1	6	9680	3700	10	9070	208	14	170	3	10	24	5	16	3	34	2.2	115	5	1	6	131	11	1
11376	1.0	11720	25	4	90	2.3	2	6750	.1	1	5	8730	3430	11	9770	157	6	110	1	10	23	3	14	2	34	1.9	100	6	1				

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-76  
 SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 1048/9 CLAIM # : SIB 12, 35  
 LOCAL GRID : 8782.11 N / 9769.59 E GLOBAL GRID : 13150.20 N / 17771.17 E  
 LENGTH : 57.90 m INCLINATION : -58.5 degrees ELEVATION : 977.48 metres  
 OVERBURDEN : 5.80 m CASING : 5.80 metres AZIMUTH : 114.5 degrees  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/25 DATE DRILLED : 1991/07/24 CORE LOCATION: 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 11378-11404

SUMMARY LOG 91-76

From(m)	To(m)	Field Name (Legend)
0.00	5.80	CASING
5.80	14.56	SULPHIDIC MUDSTONE AND CHERT (3.5)
14.56	31.00	RHYODACITIC FLOW (3.1) +/- RHYODACITIC FRAGMENTAL (3.0)
31.00	57.90	RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
57.90		END OF HOLE.

ANALYTICAL HIGHLIGHTS 91-76

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
No significant results.						

From(m)      To(m)      -----Description-----

0.00      5.80      CASING  
5.80      14.56      SULPHIDIC MUDSTONE AND CHERT (3.5)

Lithology <5.80> - <17.00>

-Sulphidic mudstone, black, silicified, regular pyritic laminations from 6.00 - 11.55m, then from 11.55 - 14.56m the mudstone has transposed, refolded laminations. Crosscutting pyritic and micro-crystalline quartz veins from 10.0 - 14.0 metres. Rock is carbonaceous (graphitic surfaces) and appears to have a foliation. Younging, based in fining up and flame structures, is downhole. Measurements taken @ 9.3, 10.0, 11.6, and 13.0 metres.

-14.56 - 17.0m: The mudstone is a "volcaniclastic sediment". The rock is black, but the laminations are absent, and the pyrite is fragmental. The texture is fragmental, but the black mudstone ash? matrix marks the clast outlines.

Structure

-Laminated/bedded from 5.8 - 12.7 metres, with bedding @ 48 - 50 degrees to c/a. Transposed foliations and weak shearing from 12.70 - 17.0m. These average from 10 - 25 degrees to c/a, but are not regular.

-Rock is increasingly fractured from 16.5 - 17.0 metres. Weakly calcareous. Lower contact abrupt @ 50 degrees to c/a. Gouge zone was washed out.

Alteration

-Silicified (moderate), rock is resistant to scratching.

Mineralization

-Both syngenetic and epigenetic pyrite in the mudstone, 0.75 - 1% syngenetic pyrite, concentrated in laminae, while the epigenetic pyrite is in vein associated (cross-cutting networks) and is < 0.25% of rock. No other sulphides seen in the core.

14.56      31.00      RHYODACITIC FLOW (3.1) +/- RHYODACITIC FRAGMENTAL (3.0)

Lithology <17.0>-<20.0>

-Tectonized/sheared fragmental, possibly of the explosive breccia type. This is an unusual unit.

-Grey, mottled, sub-angular fragments of rhyolite (quartzitic, black chert rhyolite), pyrite, rhyodacitic/dacitic volcanics in a siliceous, very fine to fine "sub-angular" matrix.

Structure

-Sheared contacts. Upper contact @ 50 degrees (gouged).

Lower contact @ 25 degrees shear zone/sericitized.

Broken core common, some sections are vuggy. No orientation to the unit, possibly due to the rotation (tectonization) of the fragments.

Alteration

-Hard unit, lower contact sericitized.

Mineralization

- Pyrite appears to be both syn and epigenetic. 2 - 3% pyrite in the fragmental (clastic) section, <0.5% epigenetic pyrite.

From(m)      To(m)      -----Description-----

Lithology <20.0>-<27.3>

-Grey to shiny grey bluish; hard, siliceous, very fine grained to aphanitic matrix with fragments of sericitized mafics (sericitite) deep green, (2 - 5% of unit), rhyodacite (whitish) <2%, black chert <2%, 5% siliceous rounded fragments. Lapilli size range. Clasts average 0.8 - 1.2cm. Fragmental size increases down hole from 26.0 - 27.3 metres.

Structure

-Upper contact sheared, lower contact at 55 - 65 degrees, irregular; impacted material (siliceous) within the tuff/fragmental. Poorly sorted unit without internal laminations or bedding where present, bedding at 50 - 55 degrees to c/a.

Alteration

-Weak silica alteration. Fragments of "mafic volcanics" are sericitized.

Mineralization

-Unmineralized epigenetically, trace detrital pyrite.

Lithology <27.3>-<33.0>

-Breccia type flow, with larger and heavier "clasts" in the lower section. Greyish green, mottled surfaces, unusually patchy alterations. The amount of sericite on both the clasts and the matrix would justify a reclassification of the rock to dacite - rhyodacite. Matrix and breccia clasts vary over 10cm intervals, there is no regularity to the textures. Larger "clasts" appear more intermediate. Very thin 10 - 15 cm felsic bands noted; 29.8 - 30.2m is a good example of a rhyolitic flow breccia interbedded in the rhyodacitic breccia.

Structure

"Upper" contact from 32.5 - 33.0m is more flow like, with less clasts. The "upper" contact is foliated/chilled. Angle to c/a is 25 - 28 degrees.  
-Semi-massive, non foliated on the surface, but a broken surface perpendicular to the core a rock cleavage is noted. This appears to be from 20 - 35 degrees. Original bedding is closer to 40 degrees.

Alteration

-Sericitized, weak; silica overprint.

Mineralization

-Unmineralized.

From(m)	To(m)	Description
31.00	57.90	RHYOLITE FLOW (AUTOBRECCIATED) (3.8)

Lithology <33.0>-<57.9>

-Rhyolitic breccia flow with interbedded chert rich rhyolitic sections that are not brecciated. Grey, siliceous, yellow green patches represent either sericitic flow contacts or sericitized bands. Rock is primarily a black chert type of breccia rhyolite in an aphanitic grey-blue (very hard) matrix. Isolated chert rhyolite is black fragment lean, and contains more rounded siliceous fragments. Sericitized zones @ 37.4 - 37.8m contacts @ 75 degrees to c/a, @ 40.35 - 40.5m 65 degrees to c/a, 43.0 - 48.8m (associated with a fault zone, see alteration section).

Structure

-Semi-massive to massive throughout; bedding or foliation where present is in the sericitized intervals. No certain that there are actual volcanic interbeds.  
 -Fault from 43.8 - 48.7m. Principal core loss from 43.8 - 47.2 metres. No record of fault contacts, no gouge preserved. In fault zone there is sericitic and very weak carbonate alteration. Rock is more veined "below" the fault contact. Main fault @ 45.7m.

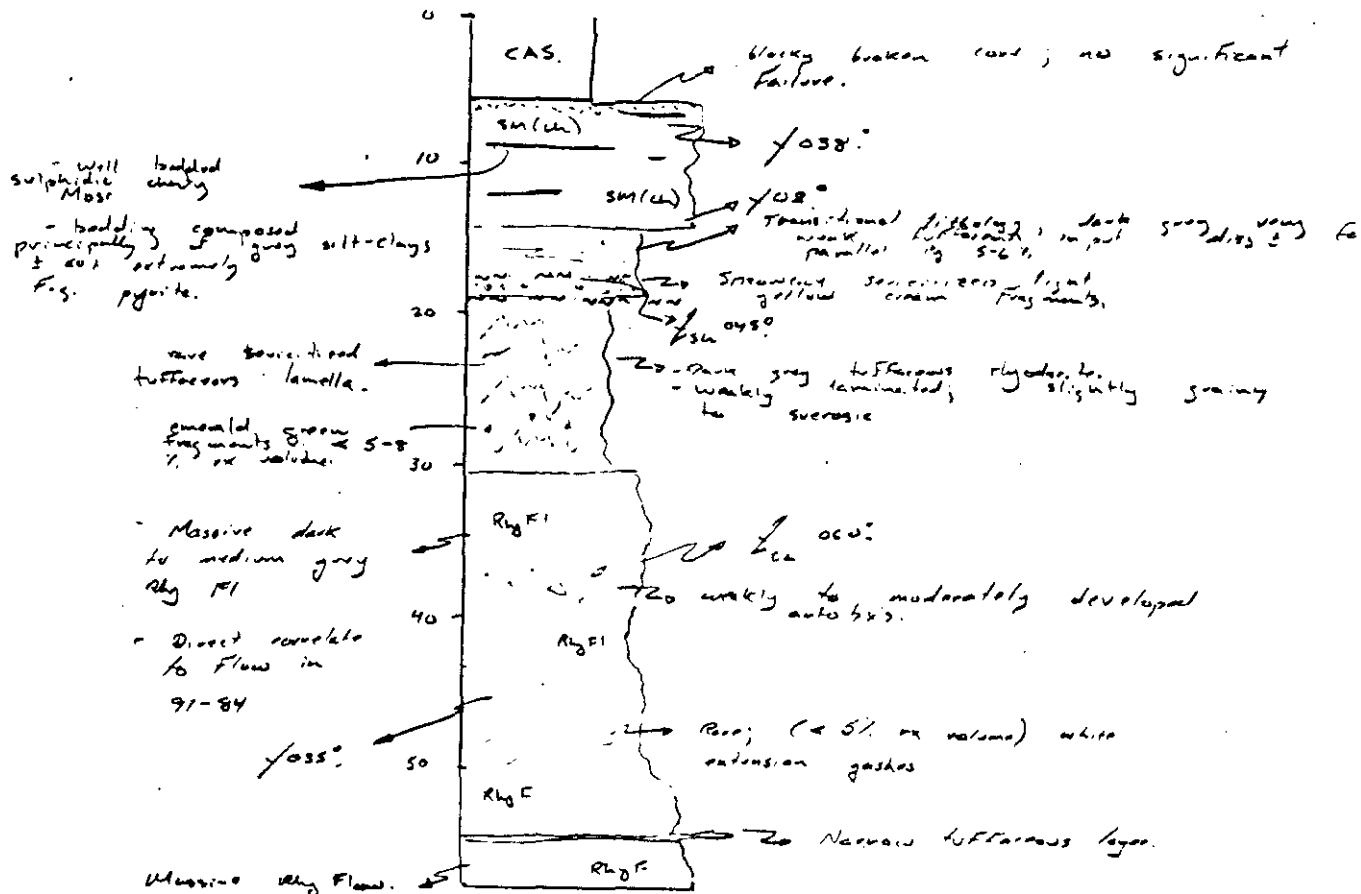
Alteration

-Silicified, weak to moderate (general)  
 -Sericitized (relatively) in certain places, notably within the fault zone from 42.7 - 48.7m.  
 -Carbonate veining and very weak carbonate alteration in sericitized zones. Veining: Carbonate rich veins common below 42.7 metre zone. Veinlets do not follow specific orientations, crisscrossing veinlets (hairline size) common. Veinlets from 42.7 - 53.0 metres tend to be sub-parallel to 20 degrees to c/a. Another set of veins are @ 40 - 60 degrees to c/a.

Mineralization

-The rhyolite has only isolated specs of pyrite. The fault zone is unmineralized, and the carbonate veinlets are barren.

57.90 END OF HOLE.



EOH 57.9

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-76	11378	5.79	10.00	4.21	-	-	4	-	-	0.9	192	16	53	4260	40	14	480	24300	4580
91-76	11379	10.00	11.00	1.00	-	-	16	-	-	0.6	392	20	85	13750	51	14	407	40190	4670
91-76	11380	11.00	12.00	1.00	-	-	5	-	-	0.7	262	22	92	3400	65	17	709	38510	2780
91-76	11381	12.00	13.00	1.00	-	-	3	-	-	0.4	539	31	97	13125	51	13	375	51730	8470
91-76	11382	13.00	14.00	1.00	-	-	6	-	-	0.4	205	23	70	2440	43	12	425	30690	6840
91-76	11383	14.00	15.00	1.00	-	-	17	-	-	0.6	198	23	112	2060	34	24	342	30880	6280
91-76	11384	15.00	17.00	2.00	-	-	7	-	-	0.4	107	12	99	1240	11	23	138	20020	4310
91-76	11385	17.00	19.00	2.00	-	-	15	-	-	0.4	264	21	83	-	8	28	93	38170	8040
91-76	11386	19.00	21.00	2.00	-	-	12	-	-	0.7	121	20	106	-	6	20	112	17220	8560
91-76	11387	21.00	23.00	2.00	-	-	2	-	-	0.9	59	8	157	-	8	20	157	16260	15270
91-76	11388	23.00	25.00	2.00	-	-	3	-	-	0.8	51	6	170	-	7	22	142	13680	7300
91-76	11389	25.00	27.00	2.00	-	-	1	-	-	0.7	54	8	153	-	7	26	136	16070	6450
91-76	11390	27.00	29.00	2.00	-	-	3	-	-	3.1	54	8	108	-	6	27	132	18160	15780
91-76	11391	29.00	31.00	2.00	-	-	6	-	-	0.6	53	8	71	-	6	24	123	17620	8770
91-76	11392	31.00	33.00	2.00	-	-	2	-	-	0.8	40	5	141	-	5	25	109	13410	6510
91-76	11393	33.00	35.00	2.00	-	-	5	-	-	0.8	25	3	60	-	5	24	130	10750	5150
91-76	11394	35.00	37.00	2.00	-	-	5	-	-	0.7	31	3	27	-	5	21	104	9140	7180
91-76	11395	37.00	39.00	2.00	-	-	2	-	-	0.8	53	5	53	-	7	25	138	13010	1810
91-76	11396	39.00	41.00	2.00	-	-	6	-	-	1.0	92	7	42	-	7	24	92	12640	1520
91-76	11397	41.00	43.00	2.00	-	-	3	-	-	0.9	27	3	24	-	6	16	84	8240	4430
91-76	11398	43.00	45.00	2.00	-	-	2	-	-	1.2	37	4	90	-	13	32	149	12770	4480
91-76	11399	45.00	47.00	2.00	-	-	4	-	-	1.4	25	4	103	-	8	35	137	9560	9400
91-76	11400	47.00	49.00	2.00	-	-	1	-	-	1.2	36	6	78	-	8	32	166	18390	7180
91-76	11401	49.00	51.00	2.00	-	-	2	-	-	1.2	19	3	45	-	6	24	99	10220	6770
91-76	11402	51.00	53.00	2.00	-	-	1	-	-	1.3	17	2	58	-	7	23	113	10200	9390
91-76	11403	53.00	55.00	2.00	-	-	3	-	-	1.1	17	2	55	-	13	37	114	11040	7060
91-76	11404	55.00	57.90	2.90	-	-	2	-	-	1.3	27	4	47	-	7	24	105	10280	7540

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M.REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ47+48  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
11331	.2	3990	910	2	110	1.5	1	6570	1.3	13	74	47090	1790	1	2140	310	42	530	101	640	10	123	13	1	15	18.6	495	1	1	1	12	38	2130
11332	.3	4860	754	1	111	1.6	1	8270	1.3	13	74	41730	1940	3	4350	342	30	450	67	910	10	89	30	1	18	26.1	587	1	1	1	23	2	1860
11333	.4	5670	334	1	129	1.3	1	9290	2.2	11	59	33160	2450	3	4800	363	21	490	54	540	11	60	38	1	19	37.8	489	1	1	2	32	1	1350
11334	.3	5850	423	2	135	1.3	1	11140	.9	11	65	39610	2560	6	7060	471	30	520	61	350	12	63	47	1	21	40.3	432	1	4	2	44	1	1275
11335	.8	5600	222	2	120	1.3	1	25110	1.4	10	43	34370	2660	4	13490	2085	22	770	26	1520	16	50	125	1	21	33.5	328	1	2	2	23	1	1310
11336	1.6	7460	159	3	206	2.1	1	18340	1.8	10	64	35170	3820	1	8610	1189	22	1090	41	750	21	61	77	1	35	42.8	376	1	1	3	56	1	1200
11337	.9	6260	279	3	136	2.1	1	4330	6.6	10	75	35050	3370	1	930	173	49	660	94	610	18	89	12	1	26	38.8	839	1	2	3	61	3	1585
11338	.8	4820	135	1	115	1.9	1	1630	1.0	5	31	18330	2660	1	580	79	32	600	64	280	30	42	6	3	29	11.7	384	1	1	5	109	1	770
11339	.8	6720	89	1	323	3.1	1	2790	.1	2	9	16630	3650	1	1700	86	9	110	1	50	24	15	11	8	33	.7	182	2	1	3	67	1	
11340	.7	11580	30	1	151	3.5	2	2410	.1	2	8	18660	5290	6	6460	235	3	60	1	60	25	6	9	10	60	1.9	217	4	1	3	54	2	
11341	.8	8220	38	1	110	2.7	1	5470	.1	2	5	16470	3940	4	6680	223	4	60	1	40	12	4	19	7	51	2.1	105	4	1	4	83	1	
11342	.8	6410	29	1	84	2.6	1	5920	.1	2	4	15280	3310	3	4650	168	37	80	1	40	11	5	20	6	43	1.5	93	3	1	4	79	1	
11343	1.0	3470	37	1	130	1.7	1	9890	.1	1	5	8960	2210	1	2610	170	6	170	4	20	11	4	25	5	37	1.3	70	2	1	5	117	1	
11344	.9	3970	99	9	162	1.2	1	3580	.1	2	7	10650	2120	2	930	35	6	350	5	10	29	23	10	1	21	1.3	143	1	1	4	96	19	
11345	1.0	3220	372	6	69	.9	1	8070	.1	1	6	11200	1800	1	720	87	10	480	1	10	29	30	11	1	17	1.2	121	1	1	3	87	43	
11346	1.3	5070	802	7	92	.9	2	8190	.1	2	6	13540	2800	1	1190	64	8	40	3	20	23	49	13	1	27	1.1	118	1	1	4	89	238	
11347	1.0	4260	963	6	234	.7	1	3710	.1	4	11	31420	2300	1	730	30	16	530	7	10	25	134	5	1	24	3.3	154	1	3	4	111	210	3800
11348	2.0	4260	805	4	88	.7	1	3620	.1	3	13	14190	2160	1	750	40	17	390	20	10	23	63	6	1	18	6.4	166	1	2	7	166	417	1100
11349	2.4	2090	226	4	40	.4	1	710	1.3	3	28	13050	1090	1	320	46	25	1210	39	10	21	57	2	1	17	15.7	277	1	9	7	177	120	700
11350	1.7	2030	458	4	45	.1	1	1300	.9	4	24	30440	1070	1	330	58	15	1300	26	10	23	200	2	1	14	14.7	295	1	2	7	193	162	5340
11351	1.5	2880	560	1	55	1.3	1	740	.1	4	10	36970	1610	1	560	22	20	30	16	30	18	100	4	2	14	1.8	158	1	3	3	84	164	3900
11352	2.3	1640	653	1	40	.7	1	720	.1	4	26	27290	920	1	440	61	18	30	40	30	20	132	3	1	11	6.8	295	1	3	8	199	262	4900
11353	.7	3260	515	4	51	1.2	1	1320	.4	7	43	27310	1850	2	810	84	25	560	57	120	13	93	11	1	16	20.0	395	1	1	4	81	120	1455
11354	1.0	3620	354	2	55	1.5	1	630	4.4	6	47	22480	1980	2	590	70	34	440	77	190	15	88	5	1	15	24.5	571	1	3	2	46	60	1000
11355	1.2	5650	380	1	77	1.7	1	8360	.1	2	9	22710	3060	2	3560	100	16	50	5	30	25	58	38	3	19	2.5	162	1	2	3	73	85	715
11356	.9	6260	136	1	89	1.7	1	1720	.1	1	6	11620	3320	2	1420	23	10	40	12	30	22	31	8	3	20	1.5	201	1	2	2	53	7	400
11357	.8	8400	278	1	120	2.4	1	1100	.1	2	8	16390	4340	2	1520	22	10	60	5	30	20	29	6	3	22	1.7	217	2	19	3	63	4	280
11358	.3	5240	240	1	244	1.4	2	2040	.1	3	8	30150	2940	2	1310	46	25	40	11	30	22	38	9	2	22	1.3	188	1	2	3	63	25	445
11359	.1	5560	1408	4	73	1.6	1	3120	.1	7	7	92040	3070	2	1530	75	76	40	1	30	25	61	8	1	17	1.1	171	1	1	2	42	355	965
11360	.1	7480	1198	5	92	1.3	1	3390	.1	7	10	84000	4110	2	2090	82	68	50	1	40	20	56	19	1	25	.2	142	1	11	1	27	685	675
11361	.8	5710	318	1	79	1.5	1	1480	.4	7	41	28380	2990	2	940	76	49	660	75	220	27	72	6	1	22	23.6	385	1	2	3	61	111	890
11362	.4	5810	354	1	77	1.5	1	1630	.1	4	22	28720	3120	1	1150	71	42	430	26	80	20	42	8	1	22	8.5	209	1	1	3	56	138	615
11363	.7	5790	236	1	76	1.2	1	11230	.1	3	13	22660	3270	2	1660	206	21	710	7	70	23	28	18	4	30	3.1	220	1	2	2	52	34	470
11364	.8	8210	96	1	101	2.2	1	5600	.1	2	7	14660	4230	3	2130	87	15	940	3	60	28	17	11	5	27	1.1	180	2	1	2	43	2	290
11365	.5	5680	160	1	166	1.7	1	2800	.5	5	35	26860	3050	1	1060	113	30	580	39	340	25	42	6	1	26	10.5	375	1	1	2	39	1	805
11366	1.0	5740	123	1	91	1.7	1	6990	6.9	9	72	30110	3130	1	1080	260	40	650	86	570	21	76	10	1	22	34.5	801	1	1	2	35	4	1010
11367	1.1	5730	106	1	94	1.6	1	15960	6.1	8	59	29400	3230	1	1250	499	41	360	78	630	16	65	19	1	21	28.9	624	1	2	1	27	2	1110
11368	.9	6110	100	1	129	1.6	1	23060	7.6	9	73	33820	3430	1	1420	627	48	420	96	680	14	71	27	1	23	37.3	795	1	1	1	27	1	1255
11369	.9	5420	95	1	75	1.3	1	20710	7.1	8	64	30500	3040	1	1190	640	43	600	77	630	15	59	24	1	20	32.3	692	1	1	2	35	2	1175
11370	.8	3810	53	1	52	1.1	1	5290	3.6	3	26	12690	1900	1	1770	157	19	80	31	220	11	23	13	1	13	13.4	377	1	2	4	94	1	525
11371	1.0	7130	24	4	70	1.8	1	8670	.1	1	5	8520	2890	5	6820	192	10	300	1	20	23	6	18	1	21	2.1	108	4	1	4	86	19	
11372	.9	10680	26	5	81	2.0	2	9760	.1	1	5	10560	3720	9	10000	309	6	170	3	20	26	3	19	1	31	2.2	98	5	1	6	137	13	
11373	.9	10020	25	4	73	2.0	2	6970	.1	1	5	9320	3190	9	8830	181	11	280	1	10	44	3	13	2	31	2.0	101	5	1	5	102	4	
11374	.9	9480	21	4	79	3.0	2	7210	.1	1	5	6290	3780	6	6000	140	18	510	2	10	23	3	11	2	33	1.4	109	4	1	4	94	4	
11375	1.0	11390	31	4	103	2.6	2	8460	.1	1	6	9680	3700	10	9070	208	14	170	3	10	24	5	16	3	34	2.2	115	5	1	6	131	11	
11376	1.0	11720	25	4	90	2.3	2	6750	.1	1	5	8730	3430	11	9770	157	6	110	1	10	23	3	14	2	34	1.9	100	6	1	4	94	3	
11377	.9	10970	29	3	68	2.4	2	6150	.1	1	5	9860	3040	11	10340																		



COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ49+50  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
11387	.9	12800	59	4	157	2.1	1	15270	.1	2	8	16260	5070	7	5400	238	15	510	5	20	20	8	48	1	30	6.4	157	4	1	5	105	2	
11388	.8	14170	51	4	170	2.6	1	7300	.1	2	7	13680	5420	8	5130	143	13	540	10	10	22	6	19	1	33	4.4	142	5	1	4	93	3	
11389	.7	12160	54	5	153	2.6	2	6450	.1	2	7	16070	4620	7	4770	144	17	570	12	10	26	8	12	1	31	3.2	136	4	1	5	121	1	
11390	3.1	9600	54	4	108	2.4	1	15780	.1	2	6	18160	3200	7	4840	503	13	590	6	10	27	8	16	1	36	2.3	132	3	1	4	90	3	
11391	.6	6200	53	2	71	1.3	1	8770	.1	2	6	17620	1810	5	3860	211	9	720	1	10	24	8	14	1	30	1.5	123	3	1	5	120	6	
11392	.8	6550	40	2	141	2.6	2	6510	.1	2	5	13410	2820	4	3310	179	9	170	1	10	25	5	10	2	33	1.4	109	3	1	5	106	2	
11393	.8	5430	25	1	60	1.8	2	5150	.1	1	5	10750	1730	4	3340	162	4	310	1	10	24	3	7	2	28	1.2	130	4	1	5	126	5	
11394	.7	2010	31	6	27	.4	1	7180	.1	1	5	9140	640	2	1070	126	7	410	1	10	21	3	10	1	24	.8	104	1	1	5	116	5	
11395	.8	3700	53	4	53	1.1	2	1810	.1	2	7	13010	1340	3	1340	62	7	380	2	20	25	5	4	1	31	.8	138	2	1	7	172	2	
11396	1.0	2120	92	3	42	.5	2	1520	.1	2	7	12640	960	1	390	36	9	650	1	20	24	7	4	1	28	.7	92	1	1	6	168	6	
11397	.9	2280	27	1	24	.5	1	4430	.1	1	6	8240	600	2	1070	106	4	530	4	30	16	3	9	2	32	1.0	84	2	1	6	152	3	
11398	1.2	6240	37	1	90	2.5	2	4480	.1	2	13	12770	2650	3	2000	109	4	240	1	40	32	4	11	6	46	1.3	149	4	1	5	112	2	
11399	1.4	7420	25	1	103	2.7	2	9400	.1	1	8	9560	3080	4	2950	250	2	350	4	20	35	4	19	6	48	1.6	137	4	1	6	129	4	
11400	1.2	7680	36	1	78	2.3	2	7180	.1	2	8	18390	2530	5	3280	234	3	290	1	20	32	6	10	5	50	1.2	166	3	1	5	101	1	
11401	1.2	6570	19	1	45	1.6	2	6770	.1	1	6	10220	1520	6	3860	162	1	410	4	20	24	3	12	5	40	1.2	99	5	1	6	137	2	
11402	1.3	6670	17	1	58	2.0	2	9390	.1	1	7	10200	2090	6	4600	165	1	340	1	20	23	2	19	6	43	1.4	113	4	1	4	99	1	
11403	1.1	8150	17	1	55	1.9	1	7060	.1	1	13	11040	1970	7	5730	149	2	480	4	30	37	2	13	6	53	1.5	114	5	1	6	135	3	
11404	1.3	5110	27	1	47	1.2	2	7540	.1	1	7	10280	1360	5	4550	149	2	540	1	50	24	4	14	5	38	1.6	105	4	1	7	152	2	
11405	1.0	4850	79	1	111	.9	1	2900	.5	7	64	28310	2400	1	1040	121	103	390	62	300	8	19	7	1	29	32.4	280	1	1	3	51	2	
11406	1.1	3550	98	1	64	1.2	1	3820	9.4	6	49	21610	1870	1	1280	165	17	520	44	170	9	24	7	1	17	26.3	632	1	2	2	42	1	
11407	1.2	4230	160	1	82	1.4	1	8050	3.5	8	59	32940	2220	1	3100	272	28	520	46	530	10	30	16	1	23	25.9	438	1	2	3	54	1	
11408	1.5	3090	100	1	71	1.3	1	6640	3.7	7	54	27500	1720	1	2540	224	12	480	37	170	12	27	13	1	16	21.3	365	1	2	2	37	1	
11409	1.2	3740	112	4	75	1.1	1	7610	11.8	8	68	30020	2060	2	2780	213	26	640	64	260	13	36	15	1	17	25.9	738	1	2	2	43	4	
11410	1.4	4280	151	3	97	1.3	1	6060	9.5	9	79	35440	2280	1	2320	176	15	610	40	200	15	40	11	1	21	27.6	681	1	2	1	25	2	
11411	1.4	5580	132	4	137	1.5	1	6200	13.1	8	65	27280	2810	1	2620	173	41	700	92	260	11	39	14	1	24	47.3	1022	1	3	2	43	1	
11412	.7	6660	312	3	102	1.4	1	7130	6.3	9	57	33810	3410	2	2840	171	46	510	77	580	15	39	21	3	29	37.9	716	1	1	2	32	1	
11413	.7	5700	129	2	83	1.1	1	7820	.3	3	18	18920	3030	2	3950	133	19	610	24	50	18	21	25	3	23	10.2	298	1	1	4	97	1	
11414	.6	5930	115	1	86	1.2	1	6140	.1	2	9	19790	3280	3	3110	73	18	60	3	50	22	16	22	5	26	2.6	219	1	1	3	73	1	
11415	.2	5390	144	2	72	1.0	1	2230	.1	3	24	18780	1640	2	2130	38	23	50	1	30	34	17	9	5	22	.4	244	1	1	2	53	2	
11416	.8	9050	56	4	89	1.3	3	2740	.1	2	6	12130	3530	8	6180	61	8	70	7	20	22	10	8	1	24	2.5	287	5	1	4	90	4	
11417	.8	8270	66	3	86	1.8	3	2490	.1	2	7	11920	3400	6	4960	51	11	60	12	10	28	12	7	1	23	3.0	255	4	1	4	86	3	
11418	1.1	1860	52	1	18	.3	2	16820	.1	1	4	9400	370	4	9570	434	3	550	1	30	22	4	32	1	21	2.4	85	4	1	5	117	1	
11419	1.4	5140	59	1	67	1.3	3	24270	.1	2	5	11930	1320	11	18250	862	7	340	2	30	28	5	72	1	23	3.1	94	5	1	4	85	1	
11420	1.3	6980	75	1	76	1.6	2	22440	.1	1	5	9550	2230	8	11460	579	4	300	1	40	28	5	51	2	34	2.5	121	5	1	5	98	2	
11421	.9	5450	57	1	68	1.2	2	12030	.1	1	5	11090	2020	6	6650	267	10	320	1	40	21	5	25	1	30	1.8	106	4	1	5	124	4	
11422	1.3	4240	56	1	81	1.5	2	19010	.1	1	5	9980	2160	4	10490	523	4	270	1	40	30	7	48	1	27	2.4	113	4	1	4	96	3	
11423	1.1	3080	38	1	48	.9	2	12130	.1	1	5	7270	1450	2	5630	202	10	380	2	30	22	6	20	1	21	1.8	85	4	1	7	160	2	
11424	1.2	4330	48	1	75	1.5	2	9990	.1	1	5	8510	2440	2	4590	113	4	200	2	30	25	7	24	3	30	1.3	113	4	1	5	113	3	
11425	1.1	3220	82	1	82	.2	1	4700	.1	3	24	18780	1640	1	380	97	8	930	5	40	6	4	8	1	24	16.8	31	1	2	6	159	1	
11426	.3	8410	77	2	86	.5	1	1960	.1	6	30	43230	1980	7	3590	154	6	140	32	610	9	12	8	2	64	28.8	311	1	2	4	82	6	
11427	1.3	8870	69	1	79	.8	2	6350	.1	9	41	29560	2130	9	7460	347	9	610	34	450	16	20	14	1	252	43.4	207	1	1	5	78	4	
11428	1.3	4780	39	1	49	.9	1	9440	.1	4	25	20460	1560	9	8770	397	2	400	15	160	13	13	20	2	13	33.6	107	2	1	4	84	2	
11429	1.2	4090	32	1	47	.9	1	15720	.1	3	19	17600	1510	5	10130	740	3	390	9	270	11	10	37	2	10	24.8	96	1	16	4	79	1	
11430	1.1	3290	37	1	51	1.1	3	57100	.1	5	16	26510	1670	1	22060	3555	6	400	16	1020	19	11	86	1	11	12.3	131	1	1	3	46	2	
11431	1.7	3660	85	1	49	1.0	1	19350	.4	6	38	27870	1830	1	10470	731	12	450	21	400	18	25	50	1	11	20.2	169	1	1	2	44	20	
11432	1.2	4630	82	1	62	1.0	1	15250	.1	5	29	22170	2490	2	7820	493	7	710	11	230	14	18	39	1	14	16.5	101	1	2	4	87	7	
11433	1.3	3430	103	1	68	.8	1	18680	7.2	8	64	29560	1870	1	8340	567	14	460	35	320	14	36	48	1	14	21.7	521	1	2	4	80	7	
11434	1.0	3700	75	1	53	.8	1	20440	.1	7	29	27070	1850	2	9270	1111	5	530	11	560	16	21	45	1	23	16.5	105	1	2	4	70	5	
11435	1.4	5690	96	2	77</																												

COPELAND REBAGLIATI & ASSOCIATES LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-77  
 SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 104B/9 CLAIM # : SIB 12, 35  
 LOCAL GRID : 8782.08 N / 9769.13 E GLOBAL GRID : 13150.38 N / 17770.75 E  
 LENGTH : 39.60 m INCLINATION : -82.0 degrees ELEVATION : 977.15 metres  
 OVERBURDEN : 4.60 m CASING : 4.60 metres AZIMUTH : 118.0 degrees  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/26 DATE DRILLED : 1991/07/25 CORE LOCATION: 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 11405-11424

SUMMARY LOG 91-77

From(m)	To(m)	Field Name (Legend)
0.00	4.60	CASING
4.60	18.19	SULPHIDIC MUDSTONE AND CHERT (3.5)
18.19	39.60	RHYODACITIC FRAGMENTAL (3.0) +/- RHYOLITE FLOW (AUTOBRECCIATED) (3.8) 24.4 - 25.0 BLACK CHERT-CHERT BRECCIA -BRECCIATED (3.3 8x) 36.0 - 38.0 BLACK CHERT - CHERT BRECCIA (3.3)
39.60		END OF HOLE.

ANALYTICAL HIGHLIGHTS 91-77

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
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No significant results.

From(m)	To(m)	Description
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0.00	4.60	CASING
4.60	18.19	SULPHIDIC MUDSTONE AND CHERT (3.5)

## Lithology

-Sulphidic mudstone, hard, silicified, laminated with pyrite/chert bedding; tops (younging) based on fining up, flame, and compaction structures indicate younging up hole.

## Structure

-Bedding @ 55 - 60 degrees to c/a from 9.5 - 11.5m, 35 - 45 degrees to c/a from 11.5 - 13.5m, and 15 - 25 degrees to c/a below 13.5m. Small fault slips @ 15.0, 15.8, and 16.5 metres. Mudstone sheared from 15.0 - 18.19m, bedding approaches 10 degrees.  
 -Lower contact sharp, mudstone impacted in tuff.  
 -Bedding regular to only partially "disturbed" from 4.6 - 13.5 metres. Below 13.5 beds are deformed; ptygmatic folding and stylolitic folds.

## Alteration

-Silicified, very weak Fe-carbonate alteration.

## Mineralization

-Primarily syngenetic pyritic bedding ranging from 0.75 - 1.5%. Isolated sphalerite grains (<1mm) in carbonate vein that cross-cut the mudstone. See other logs also for discussion especially drill hole 89-1. Fe-carbonate stage (late).  
 -Possible sphaleritic type mineralization in dark laminae. Sphalerite noted in carbonate veins.

18.19	39.60	RHYODACITIC FRAGMENTAL (3.0) +/- RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
		24.4 - 25.0 BLACK CHERT-CHERT BRECCIA -BRECCIATED (3.3 Bx)
		36.0 - 38.0 BLACK CHERT - CHERT BRECCIA (3.3)

## Lithology &lt;18.19&gt;-&lt;25.00&gt;

-Medium to dark grey, fragmental, with 10 - 20% black rhyolitic or silicified mudstone fragments and lesser rhyolitic shards. Very fine grained silica-sericite matrix (Ash matrix?). Mineralogy suggests a rhyodacitic composition. Fragments are elongated and flattened, usually < 1.2cm. Coarser unit or bed of fragmental material @ 18.19 - 19.19 metres.

## Structure

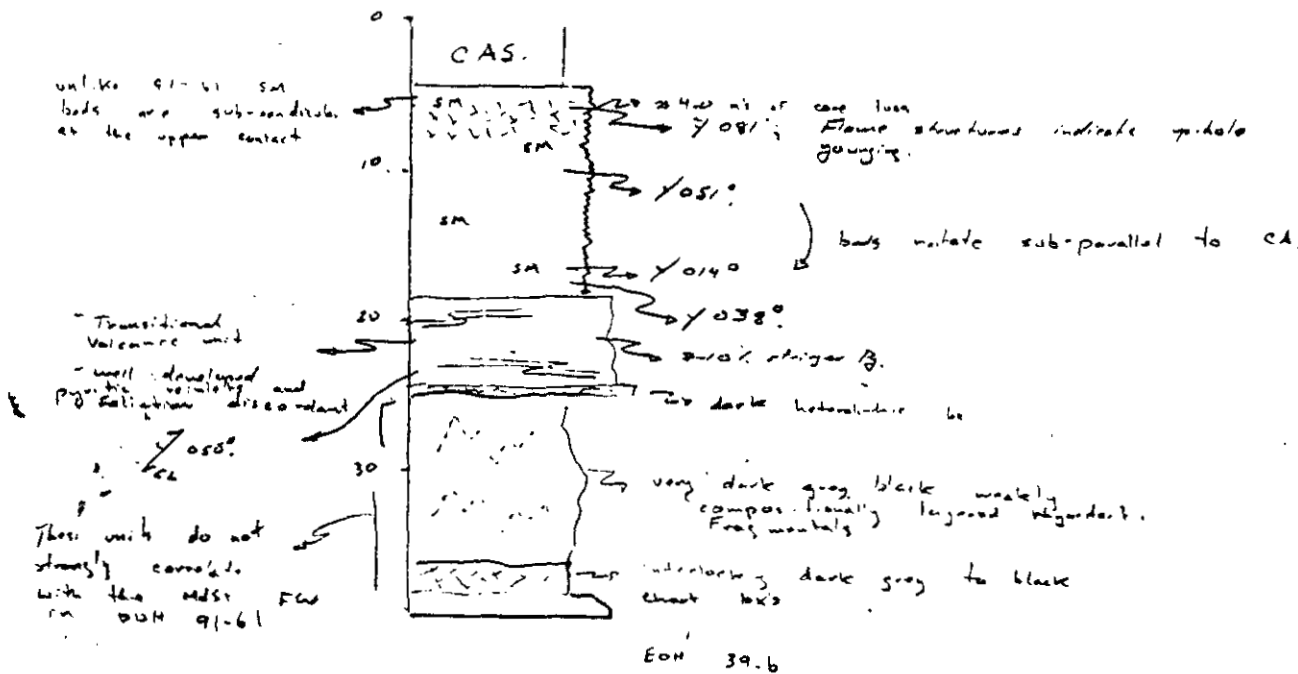
-Upper shear contact at 25 degrees to c/a. Lower contact @ 72 degrees to c/a (bedding contact).  
 -Bedding fairly consistent through this unit. Shear zone runs from 15.0 - 22.0 metres. This coincides with a sericitized, pyritic zone. Foliations @ 15 - 25 degrees in shear zone. Average @ 20 degrees to c/a.  
 -From 22.0 - 25.0 metres, bedding at 45 degrees to c/a.  
 -Broken core common from 15.0 - 21.0 metres, within the shear zone.

## Alteration

-Sericitized from 15.0 - 22.0 metres, weak. Sericitic front stops around the 22.0m mark.

From(m)	To(m)	Description
		<p>Mineralization -Epigenetic pyrite 2 - 3% from 15.0 - 22.0 metres. Commonly encircling fragments, concentrated in the matrix, and is very fine grained.</p>
		<p>Lithology &lt;25.0&gt;-&lt;28.0&gt; -Grey, siliceous, sub-angular breccia (chert) fragments in a grey siliceous matrix. Only one type of fragment noted, the black chert, rhyolite. Lower contact very vague, not sure of contact angle.</p>
		<p>Structure, Alteration, Mineralization -Semi-massive, no internal structure noted, Siliceous, Unmineralized.</p>
		<p>Lithology &lt;28.0&gt;-&lt;31.0&gt; -Grey, 20 - 30% sub-angular and rounded fragments in a fine grained quartzo-feldspathic matrix; fragments consist of quartz, feldspar, and intermediate rock clasts. Poorly sorted.</p>
		<p>Structure -Weak foliations with foliation or bedding @ 43 degrees to c/a.</p>
		<p>Alteration -Weak carbonate alteration, possibly a magnesium or iron carbonate.</p>
		<p>Mineralization -Unmineralized.</p>
		<p>Lithology &lt;31.0&gt;-&lt;39.6&gt; -See 25.0 - 28.0 m interval. Essentially a black chert breccia in a siliceous matrix. From 35.0 - 36.0, 37.3 - 37.5, 38.1 - 38.6, and 39.3 - 39.6 metres: fine grained, subporphyritic texture, with 20 - 35% plagioclase phenocrysts, matrix is siliceous. Resembles a fine grained tuff (crystal tuff), but the contact relationships are not compatible with this mode of deposition.</p>

39.60      END OF HOLE.



HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91-77	11405	4.67	9.50	4.83	-	-	2	-	-	1.0	79	19	111	1175	64	8	280	28310	2900	
91-77	11406	9.50	10.50	1.00	-	-	1	-	-	1.1	98	24	64	1045	49	9	632	21610	3820	
91-77	11407	10.50	11.50	1.00	-	-	1	-	-	1.2	160	30	82	1375	59	10	438	32940	8050	
91-77	11408	11.50	12.50	1.00	-	-	1	-	-	1.5	100	27	71	1300	54	12	365	27500	6640	
91-77	11409	12.50	13.50	1.00	-	-	4	-	-	1.2	112	36	75	1815	68	13	738	30020	7610	
91-77	11410	13.50	14.50	1.00	-	-	2	-	-	1.4	151	40	97	2160	79	15	681	35440	6060	
91-77	11411	14.50	15.50	1.00	-	-	1	-	-	1.4	132	39	137	2800	65	11	1022	27280	6200	
91-77	11412	15.50	16.50	1.00	-	-	1	-	-	0.7	312	39	102	3000	57	15	716	33810	7130	
91-77	11413	16.50	18.00	1.50	-	-	1	-	-	0.7	129	21	83	1285	18	18	298	18920	7820	
91-77	11414	18.00	20.00	2.00	-	-	1	-	-	0.6	115	16	86	-	9	22	219	19790	6140	
91-77	11415	20.00	22.00	2.00	-	-	2	-	-	0.2	144	17	72	-	6	34	244	36340	2230	
91-77	11416	22.00	24.00	2.00	-	-	4	-	-	0.8	56	10	89	-	6	22	287	12130	2740	
91-77	11417	24.00	26.00	2.00	-	-	3	-	-	0.8	66	12	86	-	7	28	255	11920	2490	
91-77	11418	26.00	28.00	2.00	-	-	1	-	-	1.1	52	4	18	-	4	22	85	9400	16820	
91-77	11419	28.00	30.00	2.00	-	-	1	-	-	1.4	59	5	67	-	5	28	94	11930	24270	
91-77	11420	30.00	32.00	2.00	-	-	2	-	-	1.3	75	5	76	-	5	28	121	9550	22440	
91-77	11421	32.00	34.00	2.00	-	-	4	-	-	0.9	57	5	68	-	5	21	106	11090	12030	
91-77	11422	34.00	36.00	2.00	-	-	3	-	-	1.3	56	7	81	-	5	30	113	9980	19010	
91-77	11423	36.00	38.00	2.00	-	-	2	-	-	1.1	38	6	48	-	5	22	85	7270	12130	
91-77	11424	38.00	39.60	1.60	-	-	3	-	-	1.2	48	7	75	-	5	25	113	8510	9990	

COMP: COPELAND, REBAGLIATI & ASSOC.

PROJ: 9101

ATTN: M.REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ49+50

DATE: 91/10/17

\* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
11387	.9	12800	59	4	157	2.1	1	15270	.1	2	8	16260	5070	7	5400	238	15	510	5	20	20	8	48	1	30	6.4	157	4	1	5	105	2	
11388	.8	14170	51	4	170	2.6	1	7300	.1	2	7	13680	5420	8	5130	143	13	540	10	10	22	6	19	1	33	4.4	142	5	1	4	93	3	
11389	.7	12160	54	5	153	2.6	2	6450	.1	2	7	16070	4620	7	4770	144	17	570	12	10	26	8	12	1	31	3.2	136	4	1	5	121	1	
11390	3.1	9600	54	4	108	2.4	1	15780	.1	2	6	18160	3200	7	4840	503	13	590	6	10	27	8	16	1	36	2.3	132	3	1	4	90	3	
11391	.6	6200	53	2	71	1.3	1	8770	.1	2	6	17620	1810	5	3860	211	9	720	1	10	24	8	14	1	30	1.5	123	3	1	5	120	6	
11392	.8	6550	40	2	141	2.6	2	6510	.1	2	5	13410	2820	4	3310	179	9	170	1	10	25	5	10	2	33	1.4	109	3	1	5	106	2	
11393	.8	5430	25	1	60	1.8	2	5150	.1	1	5	10750	1730	4	3340	162	4	310	1	10	24	3	7	2	28	1.2	130	4	1	5	126	5	
11394	.7	2010	31	6	27	.4	1	7180	.1	1	5	9140	640	2	1070	126	7	410	1	10	21	3	10	1	24	.8	104	1	1	5	116	5	
11395	.8	3700	53	4	53	1.1	2	1810	.1	2	7	13010	1340	3	1340	62	7	380	2	20	25	5	4	1	31	.8	138	2	1	7	172	2	
11396	1.0	2120	92	3	42	.5	2	1520	.1	2	7	12640	960	1	390	36	9	650	1	20	24	7	4	1	28	.7	92	1	1	6	168	6	
11397	.9	2280	27	1	24	.5	1	4430	.1	1	6	8240	600	2	1070	106	4	530	4	30	16	3	9	2	32	1.0	84	2	1	6	152	3	
11398	1.2	6240	37	1	90	2.5	2	4480	.1	2	13	12770	2650	3	2000	109	4	240	1	40	32	4	11	6	46	1.3	149	4	1	5	112	2	
11399	1.4	7420	25	1	103	2.7	2	9400	.1	1	8	9560	3080	4	2950	250	2	350	4	20	35	4	19	6	48	1.6	137	4	1	6	129	4	
11400	1.2	7680	36	1	78	2.3	2	7180	.1	2	8	18390	2530	5	3280	234	3	290	1	20	32	6	10	5	50	1.2	166	3	1	5	101	1	
11401	1.2	6570	19	1	45	1.6	2	6770	.1	1	6	10220	1520	6	3860	162	1	410	4	20	24	3	12	5	40	1.2	99	5	1	6	137	2	
11402	1.3	6670	17	1	58	2.0	2	9390	.1	1	7	10200	2090	6	4600	165	1	340	1	20	23	2	19	6	43	1.4	113	4	1	4	99	1	
11403	1.1	8150	17	1	55	1.9	1	7060	.1	1	13	11040	1970	7	5730	149	2	480	4	30	37	2	13	6	53	1.5	114	5	1	6	135	3	
11404	1.3	5110	27	1	47	1.2	2	7540	.1	1	7	10280	1360	5	4550	149	2	540	1	50	24	4	14	5	38	1.6	105	4	1	7	152	2	
11405	1.0	4850	79	1	111	.9	1	2900	.5	7	64	28310	2400	1	1040	121	103	390	62	300	8	19	7	1	29	32.4	280	1	1	3	51	2	
11406	1.1	3550	98	1	64	1.2	1	3820	9.4	6	49	21610	1870	1	1280	165	17	520	44	170	9	24	7	1	17	26.3	632	1	2	2	42	1	
11407	1.2	4230	160	1	82	1.4	1	8050	3.5	8	59	32940	2220	1	3100	272	28	520	46	530	10	30	16	1	23	25.9	438	1	2	3	54	1	
11408	1.5	3090	100	1	71	1.3	1	6640	3.7	7	54	27500	1720	1	2540	224	12	480	37	170	12	27	13	1	16	21.3	365	1	2	2	37	1	
11409	1.2	3740	112	4	75	1.1	1	7610	11.8	8	68	30020	2060	2	2780	213	26	640	64	260	13	36	15	1	17	25.9	738	1	2	2	43	4	
11410	1.4	4280	151	3	97	1.3	1	6060	9.5	9	79	35440	2280	1	2320	176	15	610	40	200	15	40	11	1	21	27.6	681	1	1	2	25	2	
11411	1.4	5580	132	4	137	1.5	1	6200	13.1	8	65	27280	2810	1	2620	173	41	700	92	260	11	39	14	1	24	47.3	1022	1	3	2	43	1	
11412	.7	6660	312	3	102	1.4	1	7130	6.3	9	57	33810	3410	2	2840	171	46	510	77	580	15	39	21	3	29	37.9	716	1	1	2	32	1	
11413	.7	5700	129	2	83	1.1	1	7820	.3	3	18	18920	3030	2	3950	133	19	610	24	50	18	21	25	3	23	10.2	298	1	1	4	97	1	
11414	.6	5930	115	1	86	1.2	1	6140	.1	2	9	19790	3280	3	3110	73	18	60	3	50	22	16	22	5	26	2.6	219	1	1	3	73	1	
11415	.2	5390	144	2	72	1.0	1	2230	.1	3	6	36340	2950	2	2130	38	23	50	1	30	34	17	9	5	22	.4	244	1	1	2	53	2	
11416	.8	9050	56	4	89	1.3	3	2740	.1	2	6	12130	3530	8	6180	61	8	70	7	20	22	10	8	1	24	2.5	287	5	1	4	90	4	
11417	.8	8270	66	3	86	1.8	3	2490	.1	2	7	11920	3400	6	4960	51	11	60	12	10	28	12	7	1	23	3.0	255	4	1	4	86	3	
11418	1.1	1860	52	1	18	.3	2	16820	.1	1	4	9400	370	4	9570	434	3	550	1	30	22	4	32	1	21	2.4	85	4	1	5	117	1	
11419	1.4	5140	59	1	67	1.3	3	24270	.1	2	5	11930	1320	11	18250	862	7	340	2	30	28	5	72	1	23	3.1	94	5	1	4	85	1	
11420	1.3	6980	75	1	76	1.6	2	22440	.1	1	5	9550	2230	8	11460	579	4	300	1	40	28	5	51	2	34	2.5	121	5	1	5	98	2	
11421	.9	5450	57	1	68	1.2	2	12030	.1	1	5	11090	2020	6	6650	267	10	320	1	40	21	5	25	1	30	1.8	106	4	1	5	124	4	
11422	1.3	4240	56	1	81	1.5	2	19010	.1	1	5	9980	2160	4	10490	523	4	270	1	40	30	7	48	1	27	2.4	113	4	1	4	96	3	
11423	1.1	3080	38	1	48	.9	2	12130	.1	1	5	7270	1450	2	5630	202	10	380	2	30	22	6	20	1	21	1.8	85	4	1	7	160	2	
11424	1.2	4330	48	1	75	1.5	2	9990	.1	1	5	8510	2440	2	4590	113	4	200	2	30	25	7	24	3	30	1.3	113	4	1	5	113	3	
11425	1.1	3220	82	1	82	.2	1	4700	.1	3	24	18780	1640	1	380	97	8	930	5	40	6	4	8	1	24	16.8	31	1	2	6	159	1	
11426	.3	8410	77	2	86	.5	1	1960	.1	6	30	43230	1980	7	3590	154	6	140	32	610	9	12	8	2	64	28.8	311	1	2	4	82	6	
11427	1.3	8870	69	1	79	.8	2	6350	.1	9	41	29560	2130	9	7460	347	9	610	34	450	16	20	14	1	252	43.4	207	1	1	5	78	4	
11428	1.3	4780	39	1	49	.9	1	9440	.1	4	25	20460	1560	9	8770	397	2	400	15	160	13	13	20	2	13	33.6	107	2	1	4	84	2	
11429	1.2	4090	32	1	47	.9	1	15720	.1	3	19	17600	1510	5	10130	740	3	390	9	270	11	10	37	2	10	24.8	96	1	16	4	79	1	
11430	1.1	3290	37	1	51	1.1	3	57100	.1	5	16	26510	1670	1	22060	3555	6	400	16	1020	19	11	86	1	11	12.3	131	1	1	3	46	2	
11431	1.7	3660	85	1	49	1.0	1	19350	.4	6	38	27870	1830	1	10470	731	12	450	21	400	18	25	50	1	11	20.2	169	1	1	2	44	20	
11432	1.2	4630	82	1	62	1.0	1	15250	.1	5	29	22170	2490	2	7820	493	7	710	11	230	14	18	39	1	14	16.5	101	1	2	4	87	7	
11433	1.3	3430	103	1	68	.8	1	18680	7.2	8	64	29560	1870	1	8340	567	14	460	35	320	14	36	48	1	14	21.7	521	1	2	4	80	7	
11434	1.0	3700	75	1	53	.8	1	20440	.1	7	29	27070	1850	2	9270	1111	5	530	11	560	16												

COPELAND REBAGLIATI & ASSOCIATES LTD.

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AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-78  
SIB PROPERTY DIAMOND DRILL LOG

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NTS MAP # : 1048/9 CLAIM # : SIB 12, 35  
LOCAL GRID : 8782.70 N / 9765.44 E GLOBAL GRID : 13152.60 N / 17767.73 E  
LENGTH : 61.00 m INCLINATION : -74,5 degrees ELEVATION : 976.79 metres  
OVERBURDEN : 12.20 m CASING : 3.05 metres AZIMUTH : 298.0 degrees  
LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
DATE LOGGED : 1991/07/27 DATE DRILLED : 1991/07/26 CORE LOCATION: 86+30 N, 96+70 E  
Y/M/D Y/M/D SAMPLE NO. SERIES : 11425-11448

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SUMMARY LOG 91-78

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From(m)	To(m)	Field Name (Legend)
0.00	12.20	CASING
12.20	44.00	SULPHIDIC MUDSTONE AND CHERT (3.5) 30.0 - 31.0 SULPHIDIC MUDSTONE AND CHERT (3.5) +/- TURBIDITIC MUDSTONE (3.8) + QUARTZ VEIN
44.00	55.30	RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
55.30	61.00	RHYODACITIC FRAGMENTAL (3.0)
61.00		END OF HOLE.

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ANALYTICAL HIGHLIGHTS 91-78

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From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
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No significant results.



From(m)	To(m)	-----Description-----
0.00	12.20	CASING
12.20	44.00	SULPHIDIC MUDSTONE AND CHERT (3.5) 30.0 - 31.0 SULPHIDIC MUDSTONE AND CHERT (3.5) +/- TURBIDITIC MUDSTONE (3.8) + QUARTZ VEIN

#### Lithology

-Black, siliceous, hard, laminated, with both pyritic and turbiditic types of bedding present. Not possible to separate the sulphidic from the turbiditic mudstone. Younging direction is not conclusive (see structure). Actual observations/descriptions of this unit are not considered reliable due to the poor core recoveries, and faulting/shearing of the unit.

#### Structure

- Fractured, sheared, and faulted. Sharp lower contact at 80 degrees to c/a.
- 1- Main deformation zone from the casing point (12.2m) to 39.75 metres. (See sample sheet).
- 2- Most measurements from 12.2 - 39.75 m are inadmissible.
- 3- Faulting is most apparent from 21.3 - 27.0 m (Fault zone)
- 4- From 27.0 - 37.5m the rock is sheared, and veined. Quartz-calcite (Fe-carbonate) veins are common between 28.0 - 30.5m, and less common below this point.
- 5- Zones of shearing, "bedding" @ 0 - 5 degrees to c/a, vary with zones of "bedding" @ 20 - 35 degrees to c/a.
- 6- Younging directions give conflicting tops, due to poor record and transposed bedding.

#### Alteration

-Weak silica alteration, calcareous partings common in fractured core sections.

#### Mineralization

-Syngenetic pyrite <1%; epigenetic pyrite: uncommon, trace, trace sphalerite in veins.

-Veining -sparry quartz - Fe-carbonate type. No preferred directions. Larger veins are sub-parallel to c/a.

Note: Due to poor core recoveries over large portions of the mudstone intervals, the sample lengths will vary from 1.0 metre to > 2.0 metres.

44.00	55.30	RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
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#### Lithology

-Grey to light yellowish green, breccia type of flow unit with some very siliceous (purer) flow sections. Breccia fragments are both angular and rounded. These fragments are primarily felsic in composition and the matrix is siliceous. Thin flow like sections do not exceed 30cm of width.

#### Structure

-Semi-massive to massive, fracture or fault slip zones @ 47.5 - 47.7m, foliation @ 0 degree to c/a, slip @ 23 degree to c/a; @ 49.7 - 50.4m,

From(m)	To(m)	Description
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foliations @ 0 - 10 degrees to c/a, undulating, no contacts visible; @ 53.8 - 54.2m, broken, rubbly core, c/a angle is about 15 degrees.  
 -Lower contacts @ 65 degrees to c/a, upper contact at 75 - 80 degrees to c/a.

## Alteration

- Weakly sericitized, both matrix and flow breccia portions of rock are sericitic.
- Weakly silicified, probably an overprint.
- Veins quartz - Fe-carbonate type, common from 44.0 - 50.4 metres, <2% of unit cross-cutting hair line veins most common, but 5, 1cm veins are @ 40 - 50 degrees to c/a. Upper contact of rhyodacite/mudstone area (from 44.0 - 45.0 metres) is fractured, veining is complex with later carbonate - quartz veins cutting earlier quartz type veins. This may suggest that the mudstone / rhyodacite contact is not lithological.

## Mineralization

- Unmineralized, trace syngenetic pyrite.

55.30	61.00	RHYODACITIC FRAGMENTAL (3.0)
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## Lithology

- Grey - green, subtle colour variation due to texture and slight compositional changes. Alternating tuffaceous rich and tuff/fragmental sections. Tuffaceous sections appear more siliceous; while fragmentals are more rhyodacitic to dacitic "looking".
- Fragmentals (felsic type fragments, lesser crystal material?) make up 15 - 20% of unit.
- Ash and crystal matrix is 80% of rock, but in some cases this can decrease to 60 - 70%.
- Bedding (or compositional layering more rarely) common. Bedding more easily discernable in the fragmental sections.

## Structure

- Bedding @ 45 degrees to c/a from 55.5 - 57.0m, and @ 50 degrees to c/a from 59.5 - 61.0 metres, some fracturing noted, but this does not appear to be fault related.

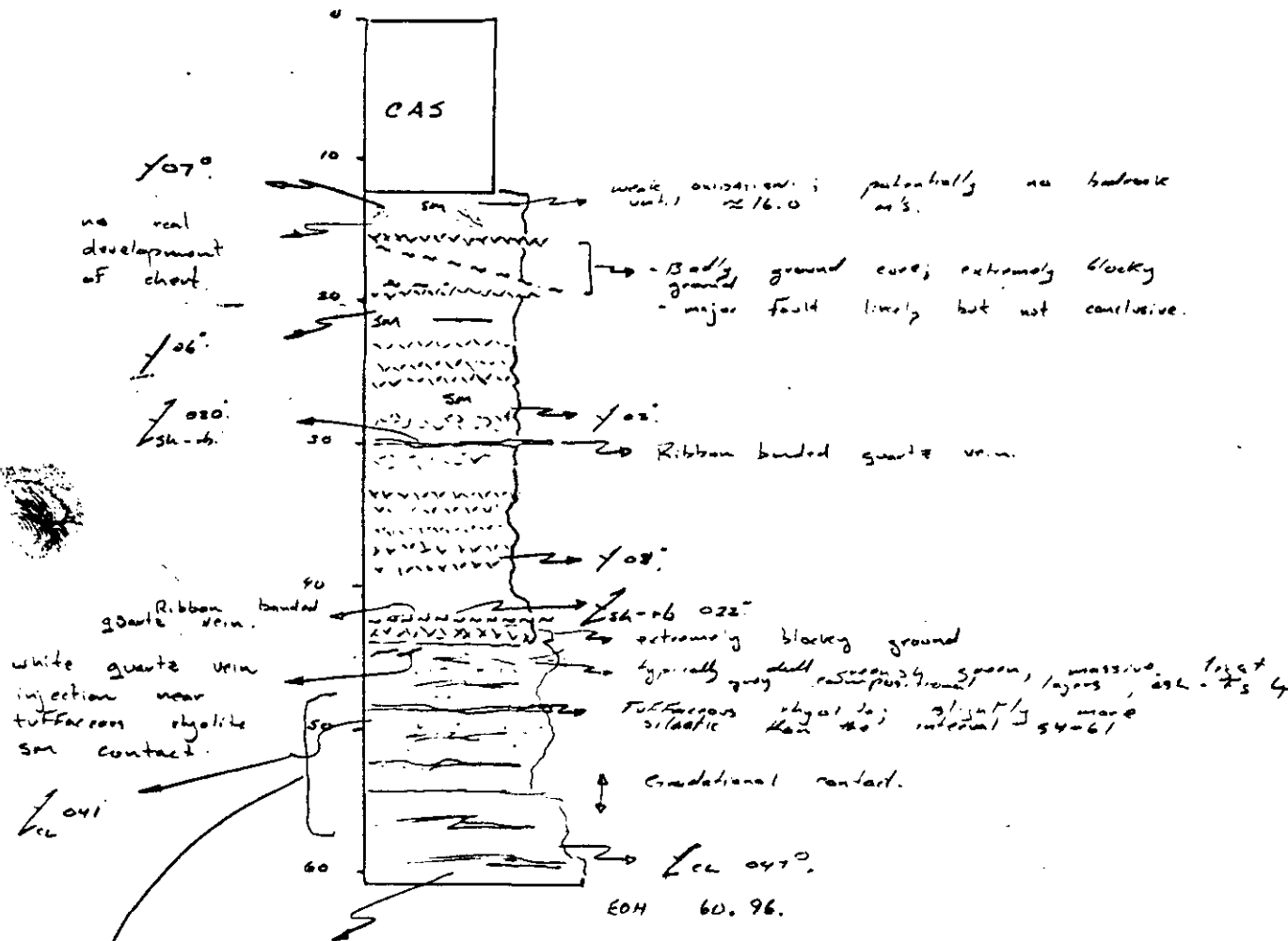
## Alteration

- Very weakly sericitized, weak silica overprint.
- Veining rare; where present, it is hairline type unoriented, calcareous.

## Mineralization

- Unmineralized, trace syngenetic (detrital pyrite).

61.00	END OF HOLE.
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- slightly compositionally layered weakly sulfurized  
 - medium gray to very slightly gray gran

This rx package is dominated by weakly sulfurized tuffaceous rhyolites. It lacks the glassy blue-gray massive near-sulfurized rhyolitic flows noted in barholes 76 and 84.

## AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

## - SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-78	11425	12.19	15.24	3.05	-	-	1	-	-	1.1	82	4	82	1800	24	6	31	18780	4700
91-78	11426	15.24	18.30	3.06	-	-	6	-	-	0.3	77	12	86	545	30	9	311	43230	1960
91-78	11427	18.30	21.30	3.00	-	-	4	-	-	1.3	69	20	79	725	41	16	207	29560	6350
91-78	11428	21.30	22.80	1.50	-	-	2	-	-	1.3	39	13	49	400	25	13	107	20460	9440
91-78	11429	22.80	24.10	1.30	-	-	1	-	-	1.2	32	10	47	280	19	11	96	17600	15720
91-78	11430	24.10	26.50	2.40	-	-	2	-	-	1.1	37	11	51	375	16	19	131	26510	57100
91-78	11431	26.50	28.00	1.50	-	-	20	-	-	1.7	85	25	49	640	38	18	169	27870	19350
91-78	11432	28.00	29.50	1.50	-	-	7	-	-	1.2	82	18	62	455	29	14	101	22170	15250
91-78	11433	29.50	31.00	1.50	-	-	7	-	-	1.3	103	36	68	940	64	14	521	29560	18680
91-78	11434	31.00	33.00	2.00	-	-	5	-	-	1.0	75	21	53	595	29	16	105	27070	20440
91-78	11435	33.00	35.00	2.00	-	-	2	-	-	1.4	96	22	77	765	29	16	196	25280	26170
91-78	11436	35.00	37.50	2.50	-	-	7	-	-	2.7	212	42	70	1900	68	16	609	29070	11880
91-78	11437	37.50	39.50	2.00	-	-	59	-	-	1.4	446	59	76	2335	79	15	848	35330	5440
91-78	11438	39.50	41.00	1.50	-	-	100	-	-	1.4	292	59	92	2400	102	15	1508	34980	2790
91-78	11439	41.00	42.50	1.50	-	-	6	-	-	1.3	287	58	69	2655	95	35	1125	36360	9240
91-78	11440	42.50	44.00	1.50	-	-	2	-	-	1.1	362	64	85	2735	99	40	968	36410	4380
91-78	11441	44.00	45.50	1.50	-	-	1	-	-	1.3	37	6	37	-	8	9	130	10780	14070
91-78	11442	45.50	48.00	2.50	-	-	1	-	-	0.8	28	4	75	-	5	16	100	13140	6890
91-78	11443	48.00	50.00	2.00	-	-	2	-	-	0.8	27	4	91	-	5	24	126	12060	6470
91-78	11444	50.00	52.00	2.00	-	-	4	-	-	1.1	31	2	74	-	6	31	151	12190	8790
91-78	11445	52.00	54.20	2.20	-	-	1	-	-	1.0	26	2	57	-	6	25	97	8910	8800
91-78	11446	54.20	56.50	2.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
91-78	11447	56.50	58.00	1.50	-	-	9	-	-	0.9	24	2	78	-	5	27	130	11160	7880
91-78	11448	58.00	60.96	2.96	-	-	3	-	-	0.8	55	5	79	-	8	37	140	25490	7120

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M.REBAGLIATI

MIN-EN LABS — ICP REPORT  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ49+50  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
11387	.9	12800	59	4	157	2.1	1	15270	.1	2	8	16260	5070	7	5400	238	15	510	5	20	20	8	48	1	30	6.4	157	4	1	5	105	2	
11388	.8	14170	51	4	170	2.6	1	7300	.1	2	7	13680	5420	8	5130	143	13	540	10	10	22	6	19	1	33	4.4	142	5	1	4	93	3	
11389	.7	12160	54	5	153	2.6	2	6450	.1	2	7	16070	4620	7	4770	144	17	570	12	10	26	8	12	1	31	3.2	136	4	1	5	121	1	
11390	3.1	9600	54	4	108	2.4	1	15780	.1	2	6	18160	3200	7	4840	503	13	590	6	10	27	8	16	1	36	2.3	132	3	1	4	90	3	
11391	.6	6200	53	2	71	1.3	1	8770	.1	2	6	17620	1810	5	3860	211	9	720	1	10	24	8	14	1	30	1.5	123	3	1	5	120	6	
11392	.8	6550	40	2	141	2.6	2	6510	.1	2	5	13410	2820	4	3310	179	9	170	1	10	25	5	10	2	33	1.4	109	3	1	5	106	2	
11393	.8	5430	25	1	60	1.8	2	5150	.1	1	5	10750	1730	4	3340	162	4	310	1	10	24	3	7	2	28	1.2	130	4	1	5	126	5	
11394	.7	2010	31	6	27	.4	1	7180	.1	1	5	9140	640	2	1070	126	7	410	1	10	21	3	10	1	24	.8	104	1	1	5	116	5	
11395	.8	3700	53	4	53	1.1	2	1810	.1	2	7	13010	1340	3	1340	62	7	380	2	20	25	5	4	1	31	.8	138	2	1	7	172	2	
11396	1.0	2120	92	3	42	.5	2	1520	.1	2	7	12640	960	1	390	36	9	650	1	20	24	7	4	1	28	.7	92	1	1	6	168	6	
11397	.9	2280	27	1	24	.5	1	4430	.1	1	6	8240	600	2	1070	106	4	530	4	30	16	3	9	2	32	1.0	84	2	1	6	152	3	
11398	1.2	6240	37	1	90	2.5	2	4480	.1	2	13	12770	2650	3	2000	109	4	240	1	40	32	4	11	6	46	1.3	149	4	1	5	112	2	
11399	1.4	7420	25	1	103	2.7	2	9400	.1	1	8	9560	3080	4	2950	250	2	350	4	20	35	4	19	6	48	1.6	137	4	1	6	129	4	
11400	1.2	7680	36	1	78	2.3	2	7180	.1	2	8	18390	2530	5	3280	234	3	290	1	20	32	6	10	5	50	1.2	166	3	1	5	101	1	
11401	1.2	6570	19	1	45	1.6	2	6770	.1	1	6	10220	1520	6	3860	162	1	410	4	20	24	3	12	5	40	1.2	99	5	1	6	137	2	
11402	1.3	6670	17	1	58	2.0	2	9390	.1	1	7	10200	2090	6	4600	165	1	340	1	20	23	2	19	6	43	1.4	113	4	1	4	99	1	
11403	1.1	8150	17	1	55	1.9	1	7060	.1	1	13	11040	1970	7	5730	149	2	480	4	30	37	2	13	6	53	1.5	114	5	1	6	135	3	
11404	1.3	5110	27	1	47	1.2	2	7540	.1	1	7	10280	1360	5	4550	149	2	540	1	50	24	4	14	5	38	1.6	105	4	1	7	152	2	
11405	1.0	4850	79	1	111	.9	1	2900	.5	7	64	28310	2400	1	1040	121	103	390	62	300	8	19	7	1	29	32.4	280	1	1	3	51	2	
11406	1.1	3550	98	1	64	1.2	1	3820	9.4	6	49	21610	1870	1	1280	165	17	520	44	170	9	24	7	1	17	26.3	632	1	2	2	42	1	
11407	1.2	4230	160	1	82	1.4	1	8050	3.5	8	59	32940	2220	1	3100	272	28	520	46	530	10	30	16	1	23	25.9	438	1	2	3	54	1	
11408	1.5	3090	100	1	71	1.3	1	6640	3.7	7	54	27500	1720	1	2540	224	12	480	37	170	12	27	13	1	16	21.3	365	1	2	2	37	1	
11409	1.2	3740	112	4	75	1.1	1	7610	11.8	8	68	30020	2060	2	2780	213	26	640	64	260	13	36	15	1	17	25.9	738	1	2	2	43	4	
11410	1.4	4280	151	3	97	1.3	1	6060	9.5	9	79	35440	2280	1	2320	176	15	610	40	200	15	40	11	1	21	27.6	681	1	2	1	25	2	
11411	1.4	5580	132	4	137	1.5	1	6200	13.1	8	65	27280	2810	1	2620	173	41	700	92	260	11	39	14	1	24	47.3	1022	1	3	2	43	1	
11412	.7	6660	312	3	102	1.4	1	7130	6.3	9	57	33810	3410	2	2840	171	46	510	77	580	15	39	21	3	29	37.9	716	1	1	2	32	1	
11413	.7	5700	129	2	83	1.1	1	7820	.3	3	18	18920	3030	2	3950	133	19	610	24	50	18	21	25	3	23	10.2	298	1	1	4	97	1	
11414	.6	5930	115	1	86	1.2	1	6140	.1	2	9	19790	3280	3	3110	73	18	60	3	50	22	16	22	5	26	2.6	219	1	1	3	73	1	
11415	.2	5390	144	2	72	1.0	1	2230	.1	3	6	36340	2950	2	2130	38	23	50	1	30	34	17	9	5	22	.4	244	1	1	2	53	2	
11416	.8	9050	56	4	89	1.3	3	2740	.1	2	6	12130	3530	8	6180	61	8	70	7	20	22	10	8	1	24	2.5	287	5	1	4	90	4	
11417	.8	8270	66	3	86	1.8	3	2490	.1	2	7	11920	3400	6	4960	51	11	60	12	10	28	12	7	1	23	3.0	255	4	1	4	86	3	
11418	1.1	1860	52	1	18	.3	2	16820	.1	1	4	9400	370	4	9570	434	3	550	1	30	22	4	32	1	21	2.4	85	4	1	5	117	1	
11419	1.4	5140	59	1	67	1.3	3	24270	.1	2	5	11930	1320	11	18250	862	7	340	2	30	28	5	72	1	23	3.1	94	5	1	4	85	1	
11420	1.3	6980	75	1	76	1.6	2	22440	.1	1	5	9550	2230	8	11460	579	4	300	1	40	28	5	51	2	34	2.5	121	5	1	5	98	2	
11421	.9	5450	57	1	68	1.2	2	12030	.1	1	5	11090	2020	6	6650	267	10	320	1	40	21	5	25	1	30	1.8	106	4	1	5	124	4	
11422	1.3	4240	56	1	81	1.5	2	19010	.1	1	5	9980	2160	4	10490	523	4	270	1	40	30	7	48	1	27	2.4	113	4	1	4	96	3	
11423	1.1	3080	38	1	48	.9	2	12130	.1	1	5	7270	1450	2	5630	202	10	380	2	30	22	6	20	1	21	1.8	85	4	1	7	160	2	
11424	1.2	4330	48	1	75	1.5	2	9990	.1	1	5	8510	2440	2	4590	113	4	200	2	30	25	7	24	3	30	1.3	113	4	1	5	113	3	
11425	1.1	3220	82	1	82	.2	1	4700	.1	3	24	18780	1640	1	380	97	8	930	5	40	6	4	8	1	34	16.8	31	1	2	6	159	1	
11426	.3	8410	77	2	86	.5	1	1960	.1	6	30	43230	1980	7	3590	154	6	140	32	610	9	12	8	2	64	28.8	311	1	2	4	82	6	
11427	1.3	8870	69	1	79	.8	2	6350	.1	9	41	29560	2130	9	7460	347	9	610	34	450	16	20	14	1	252	43.4	207	1	1	5	78	4	
11428	1.3	4780	39	1	49	.9	1	9440	.1	4	25	20460	1560	9	8770	397	2	400	15	160	13	13	20	2	13	33.6	107	2	1	4	84	2	
11429	1.2	4090	32	1	47	.9	1	15720	.1	3	19	17600	1510	5	10130	740	3	390	9	270	11	10	37	2	10	24.8	96	1	16	4	79	1	
11430	1.1	3290	37	1	51	1.1	3	57100	.1	5	16	26510	1670	1	22060	3555	6	400	16	1020	19	11	86	1	11	12.3	131	1	1	3	46	2	
11431	1.7	3660	85	1	49	1.0	1	19350	.4	6	38	27870	1830	1	10470	731	12	450	21	400	18	25	50	1	11	20.2	169	1	1	2	44	20	
11432	1.2	4630	82	1	62	1.0	1	15250	.1	5	29	22170	2490	2	7820	493	7	710	11	230	14	18	39	1	14	16.5	101	1	2	4	87	7	
11433	1.3	3430	103	1	68	.8	1	18680	7.2	8	64	29560	1870	1	8340	567	14	460	35	320	14	36	48	1	14	21.7	521	1	2	4	80	7	
11434	1.0	3700	75	1	53	.8	1	20440	.1	7	29	27070	1850	2	9270	1111	5	530	11	560	16	21	45	1	23	16.5	105	1	2	4	70	5	
11435	1.4	5690	96	2	77	.9																											

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)980-4524

FILE NO: 1V-9000-RJ51+52  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
11443	.8	9350	27	2	91	2.6	2	6470	.1	2	5	12060	2920	8	6400	188	3	120	1	30	24	4	15	1	35	1.3	126	5	1	4	91	2	
11444	1.1	8710	31	2	74	2.6	2	8790	.1	2	6	12190	2830	8	7210	231	7	220	2	10	31	2	23	1	40	1.7	151	6	1	6	149	4	
11445	1.0	6030	26	1	57	1.6	3	8800	.1	1	6	8910	1870	5	6080	225	4	300	3	10	25	2	27	1	31	1.6	97	5	1	7	181	1	
11447	.9	8630	24	2	78	2.4	3	7880	.1	2	5	11160	3030	7	7230	167	5	90	1	10	27	2	27	1	32	1.7	130	5	1	5	125	9	
11448	.8	9120	55	2	79	2.0	3	7120	.1	3	8	25490	2500	11	9380	194	8	120	1	20	37	5	22	1	23	2.4	140	5	1	4	106	3	
11449	1.9	4940	148	1	60	1.3	1	2240	1.2	5	44	21790	2410	1	870	67	21	620	36	170	14	33	7	1	18	17.8	296	1	2	8	132	102	1360
11450	.8	6180	119	1	102	2.2	1	1190	.1	2	12	13040	3190	1	910	26	11	60	14	40	14	19	6	5	21	2.5	198	1	1	4	95	1	430
11451	.9	4050	141	1	98	2.0	1	4640	.1	2	7	14280	2250	1	2050	73	10	40	10	30	13	18	17	5	15	1.5	164	2	1	4	82	2	410
11452	.6	4430	370	1	56	2.1	1	3290	.1	2	9	19430	2480	1	1460	49	12	40	11	40	17	28	13	4	14	1.3	130	1	2	3	78	25	490
11453	.6	3810	305	1	51	2.2	1	2050	.1	2	11	20200	2190	1	950	37	16	40	13	90	15	29	9	5	11	2.5	207	1	1	2	48	4	500
11454	.7	4940	279	1	55	2.3	1	3200	6.0	8	58	31330	2600	1	810	91	37	310	66	670	20	81	11	1	14	26.5	785	1	1	3	54	18	1100
11455	.1	3630	653	5	52	2.0	1	1990	1.0	8	48	41690	2110	1	520	77	44	590	52	400	16	74	10	1	10	12.7	476	1	1	2	43	84	1090
11456	.4	4240	454	3	50	2.5	1	1720	7.7	9	74	37510	2450	1	480	99	56	410	94	470	21	103	5	1	11	23.5	916	1	11	2	38	211	1150
11457	.7	3260	238	1	46	1.6	1	3700	.5	2	16	18640	1970	1	1500	84	15	1050	17	70	19	30	13	3	11	3.8	328	1	2	3	79	56	575
11458	4.9	4370	221	1	73	1.4	1	4430	.1	2	12	18400	2560	2	1860	92	11	50	9	70	19	67	23	5	15	3.8	261	1	3	4	84	161	700
11459	1.7	7770	938	5	76	2.1	1	9310	12.6	14	103	51340	4040	1	3220	389	70	640	123	1370	20	172	37	1	22	53.3	1444	1	1	4	81	166	2200
11460	.5	4520	368	1	51	1.7	1	8160	2.7	9	56	32450	2570	1	3210	346	51	400	88	720	20	95	22	1	15	23.1	578	1	3	2	47	110	1365
11461	3.4	2730	263	1	129	1.2	1	1580	.1	2	9	11410	1780	1	850	41	12	30	14	40	13	22	8	3	12	1.3	205	1	2	3	77	179	595
11462	5.8	3020	234	1	59	1.5	1	580	.1	2	8	22510	1900	1	580	62	24	20	1	40	17	21	3	4	10	.5	131	1	3	3	73	497	460
11463	4.6	3640	324	1	62	1.4	1	90	.1	4	8	40600	2200	1	490	71	68	30	1	50	24	28	2	4	14	.2	142	1	2	3	62	526	535
11464	1.7	5180	273	1	99	1.7	2	10	.1	2	10	17950	2950	1	530	32	47	40	5	80	24	24	3	9	16	1.5	208	1	2	2	39	262	370
11465	.9	5430	298	1	88	2.1	1	10	.1	2	13	18670	2950	1	580	31	72	50	8	90	26	30	3	9	15	1.8	218	1	2	2	33	234	435
11466	.8	8190	285	3	118	2.6	1	3050	.1	5	27	26110	4210	1	1620	123	146	70	83	240	29	72	18	9	19	10.7	315	1	2	1	20	176	845
11467	3.8	8740	233	5	202	2.1	1	5680	5.8	11	79	38070	4400	1	1880	204	64	1330	119	840	33	109	22	1	21	55.2	863	1	1	3	50	190	1385
11468	14.6	8100	261	4	74	2.3	1	3630	5.0	11	78	39440	4170	1	900	132	57	470	117	960	24	106	9	1	19	50.6	664	1	1	2	35	482	1335
11469	30.1	5110	903	1	46	2.2	1	2920	4.4	8	59	29920	2710	1	1270	129	22	460	43	120	17	83	10	1	17	29.5	583	1	1	3	79	2600	1200
11470	10.9	3660	517	1	131	2.9	1	2410	5.4	8	71	30810	2070	1	650	96	21	440	58	320	27	72	7	1	9	21.4	496	1	1	1	28	696	1050
11471	2.3	4330	372	1	41	2.7	1	3920	5.8	8	87	33370	2370	1	1140	153	13	390	45	350	19	69	7	1	10	28.7	475	1	1	1	28	25	1225
11472	1.9	5790	383	2	52	2.9	1	2750	9.4	10	94	35610	3090	1	620	113	18	1810	61	630	21	78	7	1	21	37.0	744	1	1	1	27	4	1165
11473	1.1	4390	114	1	42	2.6	1	6430	1.5	5	31	18940	2330	1	2730	159	19	590	33	240	23	34	13	5	16	8.6	285	1	2	2	39	30	755
11474	.8	6590	150	1	61	3.1	1	6300	4.4	7	47	27180	3320	1	2870	198	21	1080	50	270	23	49	26	3	18	24.4	632	1	1	2	46	6	1090
11475	1.0	4990	109	1	131	1.8	2	8880	2.5	3	26	16770	2000	5	5450	159	20	1060	30	140	25	23	30	3	13	12.6	391	2	2	4	82	1	525
11476	1.0	12750	29	1	60	4.0	2	5950	.1	1	5	10780	3090	19	12240	132	5	60	1	50	30	5	19	9	14	1.9	153	5	3	1	26	1	195
11477	.9	7580	44	1	49	2.6	2	8930	.1	2	6	10500	2520	9	8180	128	7	60	4	60	22	7	42	5	15	2.7	113	4	2	4	83	1	245
11478	1.2	7420	71	1	52	2.2	2	14090	.1	2	13	14140	2960	7	10260	170	10	120	11	120	24	11	61	6	18	6.8	169	4	1	4	82	1	435
11479	.5	5350	293	1	55	1.5	1	5160	.1	3	19	23190	2760	2	2390	62	33	680	30	120	21	16	18	3	23	9.6	176	1	1	6	137	1	410
11480	.8	9540	112	1	59	2.7	1	4730	2.8	5	36	19070	3490	6	5770	112	30	710	50	390	24	22	16	5	16	20.1	470	3	2	3	64	1	675
11481	1.0	4550	105	1	42	1.6	1	9430	2.4	4	28	16360	2200	2	4960	139	22	690	37	200	25	18	37	5	21	14.1	404	2	1	4	68	1	635
11482	.7	3370	133	1	33	1.2	1	7590	4.4	9	52	26820	1830	1	2940	136	39	530	77	560	16	36	31	1	15	25.6	585	1	2	3	72	16	880
11483	.3	2320	224	1	33	1.2	1	3490	.5	4	23	26520	1370	1	1290	60	38	460	30	100	24	34	8	3	16	5.4	333	1	1	4	104	10	1200
11484	.9	1390	160	1	18	.4	1	5930	.1	2	9	11860	440	1	2300	63	6	1140	3	40	25	22	13	5	29	1.5	88	2	2	6	144	2	910
11485	.9	3220	125	1	56	.9	2	6720	1.5	4	27	18430	1480	2	3280	93	22	780	34	180	28	19	20	1	14	10.0	277	2	1	6	156	14	775
11486	1.1	2720	217	1	28	.5	2	5940	4.9	6	46	20810	1140	2	2690	107	29	920	61	200	26	31	15	1	20	26.5	526	2	4	8	199	18	1510
11487	1.0	3410	289	3	33	1.9	1	3810	4.5	6	44	30300	1850	1	1280	77	51	520	55	180	31	39	9	1	14	13.4	650	1	4	4	99	20	2000
11488	1.2	3070	163	2	28	.6	2	8730	3.6	8	52	29560	1500	1	3690	106	59	990	102	660	33	54	28	1	20	42.3	541	2	3	7	176	16	1200
11489	.9	19510	35	4	82	3.7	2	8450	.1	2	6	15970	4620	26	20900	120	8	160	1	30	23	1	22	1	27	3.8	137	5	2	4	96	17	495
11490	1.0	25120	13	3	94</																												

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD.		91-79
SIB PROPERTY		DIAMOND DRILL LOG

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NTS MAP # : 104B/9	CLAIM # : SIB 12, 33	
LOCAL GRID : 8884.45 N / 9732.07 E	GLOBAL GRID : 13268.47 N / 17783.73 E	
LENGTH : 112.80 m	INCLINATION : -90.0 degrees	ELEVATION : 987.01 metres
OVERBURDEN : 12.80 m	CASING : 12.80 metres	AZIMUTH : Vertical
LOGGED BY : Paul Lawnikanis	DRILLED BY : J.T. Thomas	ASSAYING BY : Min-En Labs
DATE LOGGED : 1991/07/28	DATE DRILLED : 1991/07/26	CORE LOCATION: 86+30 N, 96+70 E
Y/M/D	Y/M/D	SAMPLE NO. SERIES : 11449-11499

SUMMARY LOG	91-79
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From(m)	To(m)	Field Name (Legend)
0.00	12.80	CASING
12.80	15.00	SULPHIDIC MUDSTONE AND CHERT (3.5)
15.00	23.00	TUFFACEOUS RHYOLITE -SERICITE, -PYRITE (3.9a,Py)
23.00	40.30	SULPHIDIC MUDSTONE AND CHERT (3.5)
		31.0 - 35.5 TUFFACEOUS RHYOLITE (3.9) +/- RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
40.30	49.50	TUFFACEOUS RHYOLITE (3.9) +/- RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
49.50	69.60	SULPHIDIC MUDSTONE AND CHERT (3.5) +/- TURBIDITIC MUDSTONE (3.6)
69.60	72.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
72.00	90.00	SULPHIDIC MUDSTONE AND CHERT (3.5) +/- TURBIDITIC MUDSTONE (3.6)
90.00	100.40	TUFFACEOUS RHYOLITE (3.9)
		96.0 - 96.7 DIORITE DYKE (6.1)
100.40	103.60	BLACK CHERT - CHERT BRECCIA (3.3)
103.60	109.20	TUFFACEOUS RHYOLITE (3.9)
109.20	112.00	CHERTY RHYOLITE FLOW (3.7)
112.00	112.80	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
112.80		END OF HOLE.

ANALYTICAL HIGHLIGHTS	91-79
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From(m)	To(m)	Length(m)	Au g/t	Au Oz/ton	Ag g/t	Ag Oz/ton	% Pb	% Zn
41.75	45.50	3.75	0.51	0.015	5.3	0.16		
51.20	58.80	7.60	1.42	0.041	20.0	0.58		

From(m)	To(m)	Description
0.00	12.80	CASING
12.80	15.00	SULPHIDIC MUDSTONE AND CHERT (3.5)
		<p>Lithology</p> <p>-Black, carbonaceous, veined, core is all broken/rubbled up. Not logable.</p> <p>Structure, Mineralization</p> <p>-Unmineralized. Lower contact 38 degrees to c/a (gouge zone).</p>
15.00	23.00	TUFFACEOUS RHYOLITE -SERICITE, -PYRITE (3.9a,Py)
		<p>Lithology</p> <p>-Dark grey to black, mixture of mudstone type clasts and lesser fragmentals on a fine ash and crystal matrix, 10 - 20% clastic debris, 5 - 10% volcanic clasts, 75 - 80% matrix. Unit is a rhyodacite in composition. 1 - 1.5cm sub-angular fragment sized common.</p> <p>Structure</p> <p>-Weak foliation or bedding @ 35 - 38 degrees to c/a; sheared from 21.0 - 23.0m, but shearing is not regular throughout the interval. Lower rubbly contact vague, defined by colour change.</p> <p>Alteration, Mineralization</p> <p>-Silicified, 1% - 0.5% syngenetic pyrite common.</p>
23.00	40.30	SULPHIDIC MUDSTONE AND CHERT (3.5)
		31.0 - 35.5 TUFFACEOUS RHYOLITE (3.9) +/- RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
		<p>Lithology</p> <p>-Black mudstone-like unit with 5 - 10% volcanic components; interbeds of fragmental and ash tuff; veined zones. Chaotic melange. Unit is deformed by shearing and faulting, and sericitized.</p> <p>Mineralization</p> <p>-Shear zone development from 23.8 - 27.4m, with 0 - 10 degree foliation; core fractured due to drill pressure</p> <p>-Fault zone from 27.4 - 40.3 metres. Marked by numerous gouge / carbonaceous zones. This unit is not a major fault.</p> <p>Alteration</p> <p>-Weak silica alteration in the mudstone, network of Fe-carbonate veining but is isolated.</p> <p>Mineralization</p> <p>-Unmineralized.</p>



From(m)      To(m)      -----Description-----

40.30      49.50      TUFFACEOUS RHYOLITE (3.9) +/- RHYOLITE FLOW (AUTOBRECCIATED) (3.8)

Lithology

-Grey to dark grey, ash rich fragmental tuff with 5 - 10% of 0.4 - 0.8cm fragments of mudstone in an ash matrix. Ash rich layers dominate this sequence, and mudstone plus volcanic fragments increase below 48.0 metres. Lower contact is gradational, then an abrupt fault slip marks a new unit.

Structure

-Bedding is common in this unit, defined by rhythmic laminations. The sequence may fine up, because the fragmentals decrease substantially above 48.0 metres.  
 -Bedding @ 40 - 45 degrees to c/a, decreasing to below 40 degrees to c/a after 47.5m. From 48.8 - 49.50m, the bedding is at 29 degrees to c/a. Lower contact fault / gouge zone at 25 degrees to c/a.  
 -Fracture zone with bull quartz veining from 40.5 - 44.3 metres. This is the extension of the fault zone described above.

Alteration

-Very weak silica alteration.

Mineralization

- 1.0 - 1.5% pyrite average; with a 3 - 5% pyrite rich zone in more felsic volcanics from 44.0 - 45.5 metres. All pyrite appears to be syngenetic.

49.50      69.60      SULPHIDIC MUDSTONE AND CHERT (3.5) +/- TURBIDITIC MUDSTONE (3.6)

Lithology

-Black, carbonaceous, both fissile and blocky / fractured pieces, bland, rare pyrite / chert laminae, bedding based on sections in the core that are not broken up, very weakly silicified.

Structure

-Faulted / sheared from 49.5 - 58.5 metres. Core losses common to 64.0 metres. Numerous gouge zones from 49.5 - 57.5 metres. No measurements possible from 49.5 - 57.5m. From 57.5 - 69.6m the "bedding" is at 30 - 35 degrees to c/a. Lower contact vague, with abrupt change to a volcanic unit.

Mineralization

-Unmineralized.

69.60      72.00      TUFFACEOUS RHYOLITE -SERICITE (3.9a)

Lithology <69.9>-<76.3>

-Greyish green, 25 - 30% lapilli size rounded clasts in a siliceous ash / crystal matrix. Isolated sections of heterolithic (mudstone rich) tuff @ 71.8 - 73.1, 74.6 - 75.6 metres. Fragment shapes and size distributions change below 73.1m, becoming more angular and larger.

From(m)	To(m)	Description
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## Structure

-Both foliated / bedded and more massive sections. Massive sections are bounded by core fracturing. This fracturing is drill related. Upper 2.0m @ 45 - 50 degrees to c/a.

## Alteration

-Weak to moderate sericite alteration. Carbonate rich veins @ 74.4m, 4cm, barren @ 50 - 60 degrees to c/a.

## Mineralization

-Unmineralized.

72.00	90.00	SULPHIDIC MUDSTONE AND CHERT (3.5) +/- TURBIDITIC MUDSTONE (3.6)
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## Lithology &lt;76.3&gt;-&lt;90.00&gt;

-Black, hard, siliceous, weakly fractured, amorphous / massive looking as a result of the alteration. Interbed of rhyolitic flow breccia from 82.0 - 83.8 metres. Massive, very hard, small hairline quartz veins common. Very small to hairline veinlets of quartz - carbonate common in the mudstone.

## Structure

-Upper contact is gradational, lower contact a slip zone (veined) at 30 degrees to c/a. Fracture zones at the vein size 1mm - 1cm common.

## Alteration

-Moderately silicified.

## Mineralization

-Association of epigenetic pyrite with fracturing.  
 -Pyrite, as isolated syngenetic bands, and fracture type epigenetic veinlets. <1% pyrite in the entire sequence. Traces (specs) of sphalerite in some carbonate rich veins.  
 -Veining is quartz - Fe-carbonate type and breccia dyke veinlets (down to the 3mm size range).

90.00	100.40	TUFFACEOUS RHYOLITE (3.9) 96.0 - 96.7 DIORITE DYKE (6.1)
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## Lithology

-Greenish grey, mottled, very deformed, flow like in appearance due to sericitic alteration. Metamorphic like fabrics, original breccia / flow textures clearly overprinted.

## Structure

-Upper slip contact poorly developed (gouge) zone @ 90.2m. Ditto for lower contact. Slip / gouge zone. Semi-massive to flow-like texture / fabric. Wavy feature (clasts?) common.

From(m) To(m) -----Description-----

Alteration  
 -Moderately sericitized, moderate silica overprint.

Mineralization  
 -Unmineralized. Breccia dyke from 96.0 - 96.7m sharp contacts, 1 - 3% pyrite.

100.40 103.60 BLACK CHERT - CHERT BRECCIA (3.3)

Lithology  
 -See 76.3 - 90.0 metre interval. Heterolithic ash, mudstone fragment tuff is abutted against the sericitized flow volcanics (upper contact). Lower contact is gradational over 10cm.

Structure  
 -Fractured, broken core, may be due to drill pressure. This do not appear to be paleofractures.

Alteration  
 -Silicified, hard.

Mineralization  
 -Unmineralized.

103.60 109.20 TUFFACEOUS RHYOLITE (3.9)

Lithology  
 -Grey to greyish-green, "metamorphic looking", very similar to the 90.0 - 100.4 metre interval, but less strongly sericitized. Original texture destroyed. Flow, fold and transposed foliations common.

Structure  
 -Faulted from 108.8 - 109.2 metres. Lower contact @ 55 degrees to c/a. Fractured from 108.0 to 108.8 metres. Poor core recoveries, e.g. core loss, may in part be due to fracture density in the rock.

Alteration  
 -Weak sericitization, moderate silica alteration.

Mineralization  
 -Unmineralized.

From(m)	To(m)	Description
109.20	112.00	CHERTY RHYOLITE FLOW (3.7)
112.00	112.80	TUFFACEOUS RHYOLITE -SERICITE (3.9a)

## Lithology

-Ash and fragmental tuff. Very hard, siliceous, with sericitized mafic, and volcanic rock fragments, greyish to greyish green. Fining up. From 109.2 - 110.2m: ash, tuff, siliceous (sericitic), from 110.2 - 111.8: mixed fragmentals with conspicuous "mafic" sericitic clasts, from 111.8 - 112.8: quartz matrix - sericite lapilli tuff.

## Structure

-Bedding at 45 degrees to c/a, consistent, laminations common.

## Sericite

-Weakly sericitized, moderately silicified.

## Mineralization

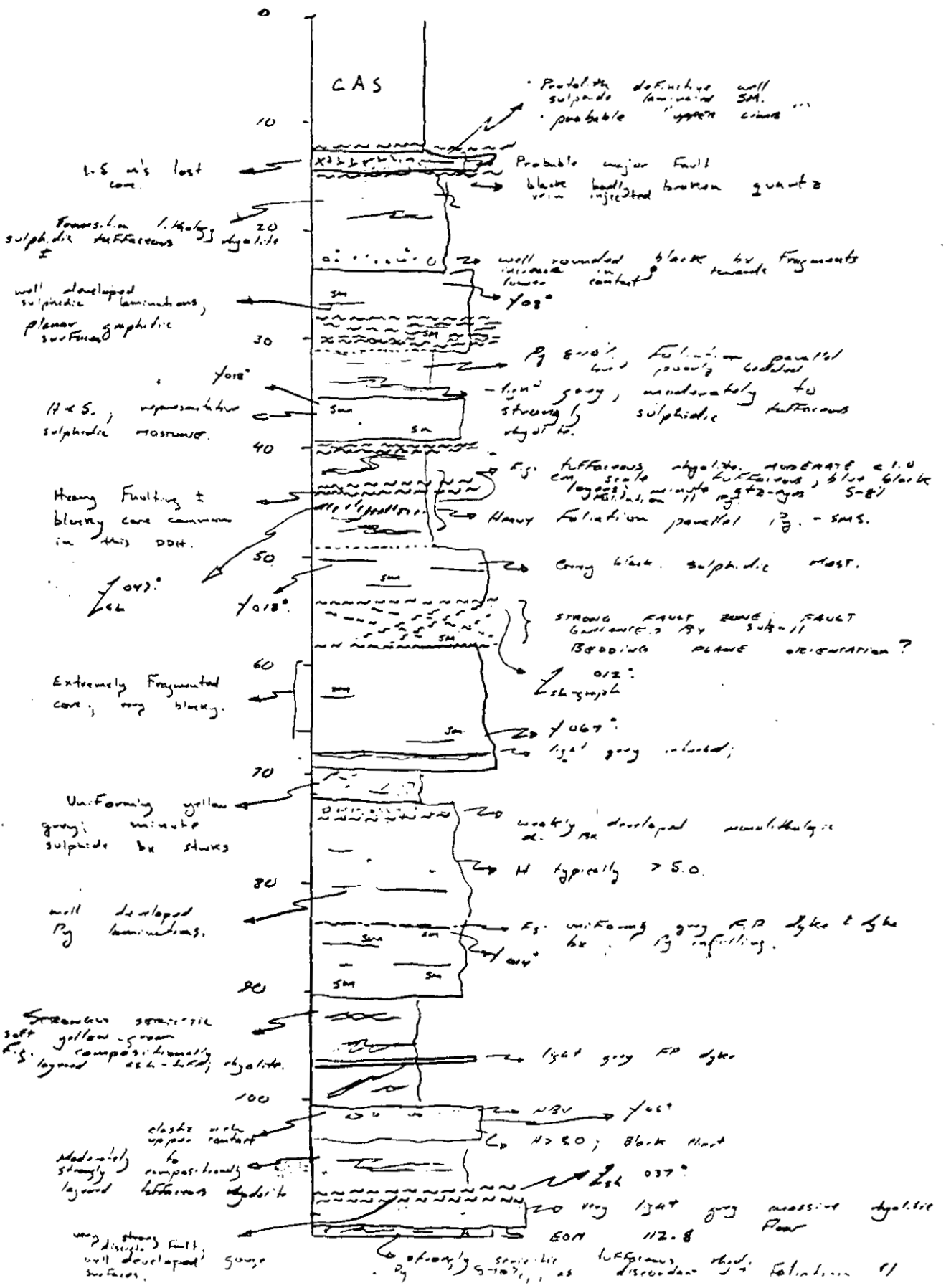
-2 - 3% syngenetic pyrite from 109.2 - 110.2m, <0.25% pyrite from 110.2 - 112.8 metres.

112.80 END OF HOLE.

Note definitive orientations from the numerous faults in this interval were not possible; due to the badly broken nature of the remaining core.

DDH 91-79

350  
25  
1750  
700  
8750



## AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

## - SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-79	11449	12.80	15.25	2.45	-	-	102	-	-	1.9	148	33	60	1360	44	14	296	21790	2240
91-79	11450	15.25	17.25	2.00	-	-	1	-	-	0.8	119	19	102	430	12	14	198	13040	1190
91-79	11451	17.25	19.25	2.00	-	-	2	-	-	0.9	141	18	98	410	7	13	164	14280	4640
91-79	11452	19.25	21.25	2.00	-	-	25	-	-	0.6	370	28	56	490	9	17	130	19430	3290
91-79	11453	21.25	23.00	1.75	-	-	4	-	-	0.6	305	29	51	500	11	15	207	20200	2050
91-79	11454	23.00	24.50	1.50	-	-	18	-	-	0.7	279	81	55	1100	58	20	785	31330	3200
91-79	11455	24.50	26.00	1.50	-	-	84	-	-	0.1	653	74	52	1090	48	16	476	41690	1990
91-79	11456	26.00	27.40	1.40	-	-	211	-	-	0.4	454	103	50	1150	74	21	916	37510	1720
91-79	11457	27.40	32.30	4.90	-	-	56	-	-	0.7	238	30	46	575	16	19	328	18640	3700
91-79	11458	32.30	33.80	1.50	-	-	161	-	-	4.9	221	67	73	700	12	19	261	18400	4430
91-79	11459	33.80	36.90	3.10	-	-	166	-	-	1.7	938	172	76	2200	103	20	1444	51340	9310
91-79	11460	36.90	40.30	3.40	-	-	110	-	-	0.5	368	95	51	1365	56	20	578	32450	8160
91-79	11461	40.30	41.76	1.46	-	-	179	-	-	3.4	263	22	129	595	9	13	205	11410	1580
91-79	11462	41.76	44.00	2.24	-	-	497	-	-	5.8	234	21	59	460	8	17	131	22510	580
91-79	11463	44.00	45.50	1.50	-	-	526	-	-	4.6	324	28	62	535	8	24	142	40600	90
91-79	11464	45.50	47.00	1.50	-	-	262	-	-	1.7	273	24	99	370	10	24	208	17950	10
91-79	11465	47.00	48.50	1.50	-	-	234	-	-	0.9	298	30	88	435	13	26	218	18670	10
91-79	11466	48.50	49.50	1.00	-	-	176	-	-	0.8	285	72	118	845	27	29	315	26110	3050
91-79	11467	49.50	51.20	1.70	-	-	190	-	-	3.8	233	109	202	1385	79	33	863	38070	5680
91-79	11468	51.20	53.90	2.70	-	-	482	-	-	14.6	261	106	74	1335	78	24	664	39440	3630
91-79	11469	53.90	57.00	3.10	2.66	0.078	2600	-	-	30.1	903	83	46	1200	59	17	583	29920	2920
91-79	11470	57.00	58.80	1.80	-	-	696	-	-	10.9	517	72	131	1050	71	27	496	30810	2410
91-79	11471	58.80	60.40	1.60	-	-	25	-	-	2.3	372	69	41	1225	87	19	475	33370	3920
91-79	11472	60.40	64.00	3.60	-	-	4	-	-	1.9	383	78	52	1165	94	21	744	35610	2750
91-79	11473	64.00	66.00	2.00	-	-	30	-	-	1.1	114	34	42	755	31	23	285	18940	6430
91-79	11474	66.00	67.50	1.50	-	-	6	-	-	0.8	150	49	61	1090	47	23	632	27180	6300
91-79	11475	67.50	69.60	2.10	-	-	1	-	-	1.0	109	23	131	525	26	25	391	16770	8880
91-79	11476	69.60	71.20	1.60	-	-	1	-	-	1.0	29	5	60	195	5	30	153	10780	5950
91-79	11477	71.20	73.00	1.80	-	-	1	-	-	0.9	44	7	49	245	6	22	113	10500	8930
91-79	11478	73.00	75.00	2.00	-	-	1	-	-	1.2	71	11	52	435	13	24	169	14140	14090
91-79	11479	75.00	76.30	1.30	-	-	1	-	-	0.5	293	16	55	410	19	21	176	23190	5160
91-79	11480	76.30	77.50	1.20	-	-	1	-	-	0.8	112	22	59	675	36	24	470	19070	4730
91-79	11481	77.50	79.00	1.50	-	-	1	-	-	1.0	105	18	42	635	28	25	404	16360	9430
91-79	11482	79.00	80.50	1.50	-	-	16	-	-	0.7	133	36	33	880	52	16	585	26820	7590
91-79	11483	80.50	82.00	1.50	-	-	10	-	-	0.3	224	34	33	1200	23	24	333	26520	3490
91-79	11484	82.00	83.50	1.50	-	-	2	-	-	0.9	160	22	18	910	9	25	88	11860	5930
91-79	11485	83.50	85.00	1.50	-	-	14	-	-	0.9	125	19	56	775	27	28	277	18430	6720
91-79	11486	85.00	86.50	1.50	-	-	18	-	-	1.1	217	31	28	1510	46	26	526	20810	5940
91-79	11487	86.50	88.00	1.50	-	-	20	-	-	1.0	289	39	33	2000	44	31	650	30300	3810
91-79	11488	88.00	90.00	2.00	-	-	16	-	-	1.2	163	54	28	1200	52	33	541	29560	8730
91-79	11489	90.00	92.00	2.00	-	-	17	-	-	0.9	35	1	82	495	6	23	137	15970	8450
91-79	11490	92.00	94.00	2.00	-	-	6	-	-	1.0	13	1	94	220	4	19	116	14810	3760
91-79	11491	94.00	96.00	2.00	-	-	11	-	-	0.9	3	1	101	200	5	19	117	15940	4580
91-79	11492	96.00	98.00	2.00	-	-	15	-	-	1.1	42	5	66	275	17	23	88	19530	4610
91-79	11493	98.00	100.00	2.00	-	-	6	-	-	1.1	13	1	58	375	6	19	125	19360	8280
91-79	11494	100.00	102.00	2.00	-	-	4	-	-	1.3	64	11	50	510	13	19	166	14110	17090
91-79	11495	102.00	104.00	2.00	-	-	19	-	-	1.3	67	23	33	605	27	36	342	16490	11800
91-79	11496	104.00	106.00	2.00	-	-	3	-	-	0.9	1	1	28	-	6	3	109	23940	17540
91-79	11497	106.00	108.00	2.00	-	-	1	-	-	0.7	1	1	35	-	5	9	115	18870	17220
91-79	11498	108.00	110.00	2.00	-	-	3	-	-	0.7	1	2	54	-	9	18	150	18660	10680
91-79	11499	110.00	112.80	2.80	-	-	2	-	-	0.4	33	2	135	-	7	25	88	18060	7190

COMP: COPELAND, REBAGLIATI & ASSOC.

PROJ: 9101

ATTN: M. REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ51+52

DATE: 91/10/17

\* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
11443	.8	9350	27	2	91	2.6	2	6470	.1	2	5	12060	2920	8	6400	188	3	120	1	30	24	4	15	1	35	1.3	126	5	1	4	91	2	
11444	1.1	8710	31	2	74	2.6	2	8790	.1	2	6	12190	2830	8	7210	231	7	220	2	10	31	2	23	1	40	1.7	151	6	1	6	149	4	
11445	1.0	6030	26	1	57	1.6	3	8800	.1	1	6	8910	1870	5	6080	225	4	300	3	10	25	2	27	1	31	1.6	97	5	1	7	181	1	
11447	.9	8630	24	2	78	2.4	3	7880	.1	2	5	11160	3030	7	7230	167	5	90	1	10	27	2	27	1	32	1.7	130	5	1	5	125	9	
11448	.8	9120	55	2	79	2.0	3	7120	.1	3	8	25490	2500	11	9380	194	8	120	1	20	37	5	22	1	23	2.4	140	5	1	4	106	3	
11449	1.9	4940	148	1	60	1.3	1	2240	1.2	5	44	21790	2410	1	870	67	21	620	36	170	14	33	7	1	18	17.8	296	1	2	8	132	102	1360
11450	.8	6180	119	1	102	2.2	1	1190	.1	2	12	13040	3190	1	910	26	11	60	14	40	14	19	6	5	21	2.5	198	1	1	4	95	1	430
11451	.9	4050	141	1	98	2.0	1	4640	.1	2	7	14280	2250	1	2050	73	10	40	10	30	13	18	17	5	15	1.5	164	2	1	4	82	2	410
11452	.6	4430	370	1	56	2.1	1	3290	.1	2	9	19430	2480	1	1460	49	12	40	11	40	17	28	13	4	14	1.3	130	1	2	3	78	25	490
11453	.6	3810	305	1	51	2.2	1	2050	.1	2	11	20200	2190	1	950	37	16	40	13	90	15	29	9	5	11	2.5	207	1	1	2	48	4	500
11454	.7	4940	279	1	55	2.3	1	3200	6.0	8	58	31330	2600	1	810	91	37	310	66	670	20	81	11	1	14	26.5	785	1	1	3	54	18	1100
11455	.1	3630	653	5	52	2.0	1	1990	1.0	8	48	41690	2110	1	520	77	44	590	52	400	16	74	10	1	10	12.7	476	1	1	2	43	84	1090
11456	.4	4240	454	3	50	2.5	1	1720	7.7	9	74	37510	2450	1	480	99	56	410	94	470	21	103	5	1	11	23.5	916	1	11	2	38	211	1150
11457	.7	3260	238	1	46	1.6	1	3700	.5	2	16	18640	1970	1	1500	84	15	1050	17	70	19	30	13	3	11	3.8	328	1	2	3	79	56	575
11458	4.9	4370	221	1	73	1.4	1	4430	.1	2	12	18400	2560	2	1860	92	11	50	9	70	19	67	23	5	15	3.8	261	1	3	4	84	161	700
11459	1.7	7770	938	5	76	2.1	1	9310	12.6	14	103	51340	4040	1	3220	389	70	640	123	1370	20	172	37	1	22	53.3	1444	1	1	4	81	166	2200
11460	.5	4520	368	1	51	1.7	1	8160	2.7	9	56	32450	2570	1	3210	346	51	400	88	720	20	95	22	1	15	23.1	578	1	3	2	47	110	1365
11461	3.4	2730	263	1	129	1.2	1	1580	.1	2	9	11410	1780	1	850	41	12	30	14	40	13	22	8	3	12	1.3	205	1	2	3	77	179	595
11462	5.8	3020	234	1	59	1.5	1	580	.1	2	8	22510	1900	1	580	62	24	20	1	40	17	21	3	4	10	.5	131	1	3	3	73	497	460
11463	4.6	3640	324	1	62	1.4	1	90	.1	4	8	40600	2200	1	490	71	68	30	1	50	24	28	2	4	14	.2	142	1	2	3	62	526	535
11464	1.7	5180	273	1	99	1.7	2	10	.1	2	10	17950	2950	1	530	32	47	40	5	80	24	24	3	9	16	1.5	208	1	2	2	39	262	370
11465	.9	5430	298	1	88	2.1	1	10	.1	2	13	18670	2950	1	580	31	72	50	8	90	26	30	3	9	15	1.8	218	1	2	2	33	234	435
11466	.8	8190	285	3	118	2.6	1	3050	.1	5	27	26110	4210	1	1620	123	146	70	83	240	29	72	18	9	19	10.7	315	1	2	1	20	176	845
11467	3.8	8740	233	5	202	2.1	1	5680	5.8	11	79	38070	4400	1	1880	204	64	1330	119	840	33	109	22	1	21	55.2	863	1	1	3	50	190	1385
11468	14.6	8100	261	4	74	2.3	1	3630	5.0	11	78	39440	4170	1	900	132	57	470	117	960	24	106	9	1	19	50.6	664	1	1	2	35	482	1335
11469	30.1	5110	903	1	46	2.2	1	2920	4.4	8	59	29920	2710	1	1270	129	22	460	43	120	17	83	10	1	17	29.5	583	1	1	3	79	2600	1200
11470	10.9	3660	517	1	131	2.9	1	2410	5.4	8	71	30810	2070	1	650	96	21	440	58	320	27	72	7	1	9	21.4	496	1	1	1	28	696	1050
11471	2.3	4330	372	1	41	2.7	1	3920	5.8	8	87	33370	2370	1	1140	153	13	390	45	350	19	69	7	1	10	28.7	475	1	1	1	28	25	1225
11472	1.9	5790	383	2	52	2.9	1	2750	9.4	10	94	35610	3090	1	620	113	18	1810	61	630	21	78	7	1	21	37.0	744	1	1	1	27	4	1165
11473	1.1	4390	114	1	42	2.6	1	6430	1.5	5	31	18940	2330	1	2730	159	19	590	33	240	23	34	13	5	16	8.6	285	1	2	2	39	30	755
11474	.8	6590	150	1	61	3.1	1	6300	4.4	7	47	27180	3320	1	2870	198	21	1080	50	270	23	49	26	3	18	24.4	632	1	1	2	46	6	1090
11475	1.0	4990	109	1	131	1.8	2	8880	2.5	3	26	16770	2000	5	5450	159	20	1060	30	140	25	23	30	3	13	12.6	391	2	2	4	82	1	525
11476	1.0	12750	29	1	60	4.0	2	5950	.1	1	5	10780	3090	19	12240	132	5	60	1	50	30	5	19	9	14	1.9	153	5	3	1	26	1	195
11477	.9	7580	44	1	49	2.6	2	8930	.1	2	6	10500	2520	9	8180	128	7	60	4	60	22	7	42	5	15	2.7	113	4	2	4	83	1	245
11478	1.2	7420	71	1	52	2.2	2	14090	.1	2	13	14140	2960	7	10260	170	10	120	11	120	24	11	61	6	18	6.8	169	4	1	4	82	1	435
11479	.5	5350	293	1	55	1.5	1	5160	.1	3	19	23190	2760	2	2390	62	33	680	30	120	21	16	18	3	23	9.6	176	1	1	6	137	1	410
11480	.8	9540	112	1	59	2.7	1	4730	2.8	5	36	19070	3490	6	5770	112	30	710	50	390	24	22	16	5	16	20.1	470	3	2	3	64	1	675
11481	1.0	4550	105	1	42	1.6	1	9430	2.4	4	28	16360	2200	2	4960	139	22	690	37	200	25	18	37	5	21	14.1	404	2	1	4	68	1	635
11482	.7	3370	133	1	33	1.2	1	7590	4.4	9	52	26820	1830	1	2940	136	39	530	77	560	16	36	31	1	15	25.6	585	1	2	3	72	16	880
11483	.3	3220	224	1	33	1.2	1	3490	.5	4	23	26520	1370	1	1290	60	38	460	30	100	24	34	8	3	16	5.4	333	1	1	4	104	10	1200
11484	.9	1390	160	1	18	.4	1	5930	.1	2	9	11860	440	1	2300	63	6	1140	3	40	25	22	13	5	29	1.5	88	2	2	6	144	2	910
11485	.9	3220	125	1	56	.9	2	6720	1.5	4	27	18430	1480	2	3280	93	22	780	34	180	28	19	20	1	14	10.0	277	2	1	6	156	14	775
11486	1.1	2720	217	1	28	.5	2	5940	4.9	6	46	20810	1140	2	2690	107	29	920	61	200	26	31	15	1	20	26.5	526	2	4	8	199	18	1510
11487	1.0	3410	289	3	33	1.9	1	3810	4.5	6	44	30300	1850	1	1280	77	51	520	55	180	31	39	9	1	14	13.4	650	1	4	4	99	20	2000
11488	1.2	3070	163	2	28	.6	2	8730	3.6	8	52	29560	1500	1	3690	106	59	990	102	660	33	54	28	1	20	42.3	541	2	3	7	176	16	1200
11489	.9	19510	35	4	82	3.7	2	8450	.1	2	6	15970	4620	26	20900	120	8	160	1	30	23	1											



**MINERAL  
• ENVIRONMENTS  
LABORATORIES**  
(DIVISION OF ASSAYERS CORP.)

91-79

**SPECIALISTS IN MINERAL ENVIRONMENTS**  
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

**VANCOUVER OFFICE:**  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C. CANADA V7M 1T2  
TELEPHONE (604) 980-5814 OR (604) 988-4524  
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**SMITHERS LAB.:**  
3176 TATLOW ROAD  
SMITHERS, B.C. CANADA V0J 2N0  
TELEPHONE (604) 847-3004  
FAX (604) 847-3005

Assay Certificate

1S-0279-RA1

Company: COPELAND, REBAGLIATI & ASSOC.  
Project: 9101  
Attn: MARK REBAGLIATI

Date: AUG-08-91  
Copy 1. COPELAND, REBAGLIATI, VANCOUVER, B.C.

We hereby certify the following Assay of 2 CORE samples  
submitted JUL-31-91 by RICHARD HASLINGER.

Sample Number	AU g/tonne	AU oz/ton
1469	2.66	.078

Certified by 



COPELAND REBAGLIATI & ASSOCIATES LTD.

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AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-80  
SIB PROPERTY DIAMOND DRILL LOG

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NTS MAP # : 1048/9 CLAIM # : SIB 10, 33  
LOCAL GRID : 9261.85 N / 9676.57 E GLOBAL GRID : 13620.46 N / 17904.43 E  
LENGTH : 54.90 m INCLINATION : -58.0 degrees ELEVATION : 1009.43 metres  
OVERBURDEN : 1.52 m CASING : 1.52 metres AZIMUTH : 114.0 degrees  
LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
DATE LOGGED : 1991/07/29 DATE DRILLED : 1991/07/27 CORE LOCATION: 86+30 N, 96+70 E  
Y/M/D Y/M/D SAMPLE NO. SERIES : 11500-11526

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SUMMARY LOG

91-80

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From(m)	To(m)	Field Name (Legend)
0.00	1.52	CASING
1.52	12.00	TUFFACEOUS RHYOLITE (3.9)
		8.9 - 10.5 BLACK CHERT - CHERT BRECCIA (3.3)
12.00	17.50	BLACK CHERT - CHERT BRECCIA (3.3)
17.50	54.90	GREEN-BLACK RHYOLITIC FLOWS (3.2)
		21.5 - 26.5 BLACK CHERT - CHERT BRECCIA -BRECCIATED (3.3 m8x)
54.90		END OF HOLE.

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ANALYTICAL HIGHLIGHTS

91-80

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From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
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No significant results.

From(m)	To(m)	Description
0.00	1.52	CASING
1.52	12.00	TUFFACEOUS RHYOLITE (3.9) 8.9 - 10.5 BLACK CHERT - CHERT BRECCIA (3.3)
		<p>Lithology &lt;1.52&gt;-&lt;8.9&gt;            -Grey to very light greenish grey, very hard, sharp lower contact (8.9m) @ 75 - 80 degrees to c/a. Lower portion from 7.9 - 8.9 m is a siliceous ash tuff. This grades into a fragmental lapilli tuff. Lapilli fragments (0.5 - 1.5cm) are green "shard-like" rhyodacitic clasts, grey siliceous semi-rounded clasts, glass shards, and possible volcanic rock fragments. Matrix comprises 60 - 70% of the fragmental unit, and is very fine grained to aphanitic. No one fragment type dominates.</p> <p>Structure            -Semi-massive, bedding poorly developed.</p> <p>Alteration            -Very weak sericite alteration, silica overprint, moderate to strong.</p> <p>Mineralization            -Isolated pyrite specs, crystals throughout, &lt;0.25% of unit.</p>
12.00	17.50	BLACK CHERT - CHERT BRECCIA (3.3)
		<p>Lithology &lt;8.9&gt;-&lt;17.5&gt;            -Dark grey to very dark, some light patches, black chert -angular fragments dominate, but other volcanic type fragments present. Percent of fragments varies throughout, overall the ratio is 60 - 70% matrix, 30 - 40% fragments. Matrix is siliceous / aphanitic (recrystallized or altered). Fragments range from 0.5 - 6.0cm. Most are from 3.0 - 3.5cm.</p> <p>Structure            -Gradational lower contact.            -Semi-massive, chaotic, no internal structures present.</p> <p>Alteration, Mineralization            -Silicified, unmineralized, isolated cross-cutting silica veinlets common, unoriented.</p>
17.50	54.90	GREEN-BLACK RHYOLITIC FLOWS (3.2) 21.5 - 26.5 BLACK CHERT - CHERT BRECCIA -BRECCIATED (3.3 mBx)
		<p>Lithology &lt;17.5&gt;-&lt;36.6&gt;            -Greenish grey, grading into darker grey to near black sections, mottled "flow-like" appearance. Black angular breccia type chert clasts dominate some sections, while in other sections there are "green clasts" common. Some fine grained uniform / grey and grey green sections also present. Chaotic, unsorted texture, contacts vague to indistinct. Matrix is difficult to determine, but argillaceous" component increased to lower contact.</p>

From(m)      To(m)      -----Description-----

Structure

-Semi-massive to massive, bedding rare. Alteration has obscured the lithologies.

Alteration

-Weak sericite, weak to moderate silica alteration.

Lithology <36.6>-<40.5>

-Grey-black, massive, black chert breccia fragments and more dacitic? fragments in a siliceous, hard matrix. Vague but distinct contacts with lithology contrasts. Texture more typical of flow volcanic -e.g. fragments suspended in an aphanitic matrix.

Structure

-Massive, contacts at 75 and 60 degrees respectively.

Alteration

-Silicified, hard.

Mineralization

-Unmineralized.

Lithology <40.5>-<54.9>

-Multicoloured, but grey-black dominates, numerous clastic type textures noted, banding, compositional layering, graded bedding or reverse graded bedding. These are isolated features, because much of this unit is chaotic (unsorted). Size range of clasts can classify this as a conglomerate (polyimictic conglomerate).  
 -Clasts include black chert, rhyolite to dacite rock, sericitic lapilli clasts.  
 -Multiple source rock. Some beds are volcanic rich, others resemble a rhyolitic breccia. In the clastic beds, both conglomeratic and greywacke beds are evident.

Structure

-Bedding angles rare, sediment looks, unsorted or chaotic, isolated thin sections have bedding features, but these angles may not be reliable.

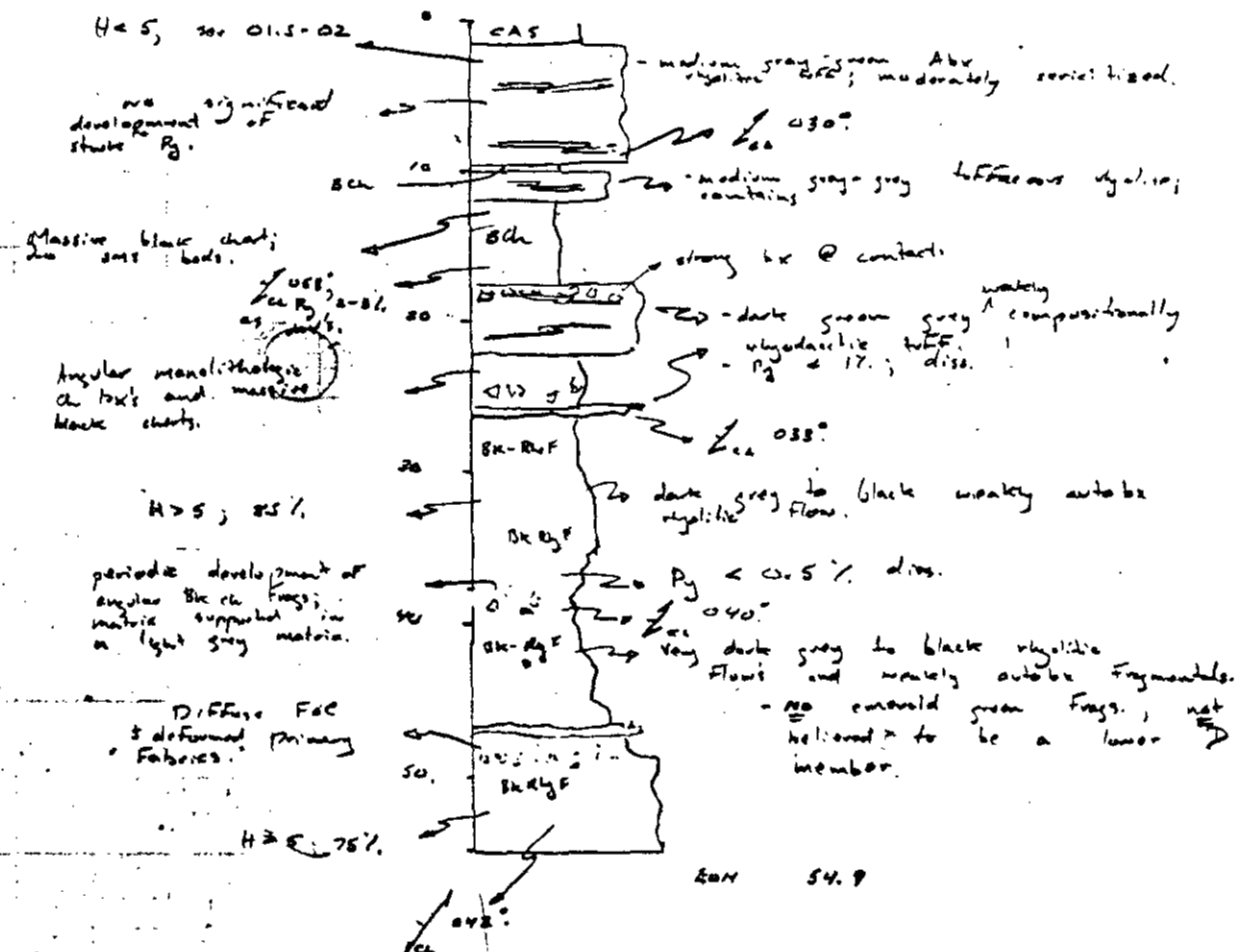
Alteration

-Silicified weak to moderate, hardness resists steel point.

Mineralization

-Isolated pyrite crystals, <0.25% of unit.

54.90      END OF HOLE.



- the rx column may NOT be equated to DDH 90-20.
- The boudole stratigraphy is suggestive of the youngest Dill rx column; above the Lulu most.
- lower Dill not intersected.
- No major faults in this boudole.



HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91-80	11500	1.52	3.00	1.48	-	-	5	-	-	0.6	46	8	159	-	6	21	139	11470	4080	
91-80	11501	3.00	5.00	2.00	-	-	1	-	-	0.5	52	8	203	-	6	22	187	17900	3800	
91-80	11502	5.00	7.00	2.00	-	-	6	-	-	0.5	48	6	153	-	6	24	168	13340	3560	
91-80	11503	7.00	9.00	2.00	-	-	3	-	-	0.4	30	3	187	-	5	24	109	12190	3430	
91-80	11504	9.00	11.00	2.00	-	-	2	-	-	0.5	44	13	109	635	6	24	66	9190	5130	
91-80	11505	11.00	13.00	2.00	-	-	11	-	-	0.4	94	25	107	510	6	30	132	10810	1820	
91-80	11506	13.00	15.00	2.00	-	-	5	-	-	0.2	95	16	56	440	6	23	95	14220	980	
91-80	11507	15.00	17.00	2.00	-	-	1	-	-	0.2	47	8	60	325	5	18	102	8130	3180	
91-80	11508	17.00	19.00	2.00	-	-	2	-	-	0.4	25	6	183	145	6	29	152	11170	3830	
91-80	11509	19.00	21.00	2.00	-	-	3	-	-	0.4	21	3	162	105	4	25	105	8530	3020	
91-80	11510	21.00	23.00	2.00	-	-	10	-	-	0.5	23	3	176	120	6	26	124	11440	4410	
91-80	11511	23.00	25.00	2.00	-	-	12	-	-	0.6	51	5	94	140	5	22	92	10300	13680	
91-80	11512	25.00	27.00	2.00	-	-	6	-	-	0.7	30	3	122	155	6	23	118	11520	10310	
91-80	11513	27.00	29.00	2.00	-	-	3	-	-	0.7	22	3	88	85	6	25	82	9260	11760	
91-80	11514	29.00	31.00	2.00	-	-	1	-	-	0.5	16	4	92	110	6	22	116	7760	5580	
91-80	11515	31.00	33.00	2.00	-	-	4	-	-	0.5	20	2	74	75	7	27	106	10610	7670	
91-80	11516	33.00	35.00	2.00	-	-	15	-	-	0.5	26	3	68	60	6	26	113	10360	4310	
91-80	11517	35.00	37.00	2.00	-	-	27	-	-	0.6	18	3	43	60	5	22	80	8550	10070	
91-80	11518	37.00	39.00	2.00	-	-	6	-	-	0.6	19	6	59	-	6	26	128	9500	8430	
91-80	11519	39.00	41.00	2.00	-	-	1	-	-	0.6	22	13	50	-	5	21	107	7160	7510	
91-80	11520	41.00	43.00	2.00	-	-	9	-	-	0.6	20	16	499	-	4	20	96	8660	10170	
91-80	11521	43.00	45.00	2.00	-	-	8	-	-	0.6	18	13	96	-	5	23	101	7000	7840	
91-80	11522	45.00	47.00	2.00	-	-	4	-	-	0.7	43	14	169	-	4	24	91	9170	11630	
91-80	11523	47.00	49.00	2.00	-	-	6	-	-	1.1	23	9	113	-	5	26	90	14450	56850	
91-80	11524	49.00	51.00	2.00	-	-	15	-	-	0.8	33	12	33	-	6	21	124	10850	11590	
91-80	11525	51.00	53.00	2.00	-	-	5	-	-	0.7	19	6	24	-	5	24	106	8540	8170	
91-80	11526	53.00	54.90	1.90	-	-	2	-	-	1.4	13	6	42	-	6	27	100	8380	14220	

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ53+54  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
11500	.6	13610	46	6	159	2.9	3	4080	.1	2	6	11470	6140	11	7700	71	4	60	1	10	21	8	17	1	33	1.7	139	6	1	4	90	5	
11501	.5	21040	52	8	203	3.3	3	3800	.1	2	6	17900	8190	24	13470	94	11	70	1	10	22	8	14	1	46	2.5	187	7	1	4	107	1	
11502	.5	13650	48	5	153	2.5	2	3560	.1	2	6	13340	6040	14	7700	55	8	70	1	10	24	6	13	1	40	1.8	168	6	1	5	117	6	
11503	.4	17640	30	5	187	3.0	3	3430	.1	2	5	12190	7340	21	9920	63	7	120	1	10	24	3	11	1	52	2.0	109	7	1	5	105	3	
11504	.5	6860	44	2	109	1.3	2	5130	.1	1	6	9190	2850	6	2760	56	6	380	1	30	24	13	12	1	33	1.4	66	4	3	5	130	2	
11505	.4	5470	94	3	107	1.6	2	1820	.1	1	6	10810	2920	3	910	20	24	320	1	40	30	25	5	1	37	1.2	132	3	2	4	109	11	
11506	.2	2860	95	2	56	.5	2	980	.1	2	6	14220	1490	1	310	17	19	500	1	40	23	16	3	1	36	1.0	95	2	3	7	171	5	
11507	.2	3210	47	1	60	.7	2	3180	.1	1	5	8130	1710	2	350	33	14	480	2	140	18	8	6	1	40	1.5	102	2	2	7	184	1	
11508	.4	10250	25	3	183	2.6	3	3830	.1	2	6	11170	5150	10	3750	88	2	230	1	20	29	6	12	1	62	1.3	152	5	3	5	110	2	
11509	.4	10120	21	2	162	2.4	2	3020	.1	1	4	8530	4960	11	3620	65	6	210	1	10	25	3	8	1	53	1.5	105	5	2	5	116	3	
11510	.5	12520	23	3	176	2.9	3	4410	.1	2	6	11440	5800	14	4640	96	4	220	1	40	26	3	10	2	63	1.6	124	6	2	7	154	10	
11511	.6	4870	51	1	94	1.2	2	13680	.1	2	5	10300	2600	4	1050	244	8	400	5	540	22	5	31	1	45	1.8	92	3	2	8	207	12	
11512	.7	8200	30	2	122	2.7	2	10310	.1	2	6	11520	3900	7	2180	224	3	170	1	10	23	3	18	1	45	1.6	118	4	2	5	118	6	
11513	.7	6830	22	1	88	1.9	2	11760	.1	2	6	9260	3190	5	1780	523	7	370	6	10	25	3	16	1	46	1.8	82	4	2	9	223	3	
11514	.5	6720	16	1	92	2.1	2	5580	.1	1	6	7760	3130	5	1610	109	3	260	1	10	22	4	13	2	51	1.2	116	3	3	6	148	1	
11515	.5	7400	20	2	74	2.5	2	7670	.1	2	7	10610	3410	4	2060	169	7	430	5	10	27	2	12	1	50	1.7	106	4	2	9	225	4	
11516	.5	6980	26	1	68	1.7	2	4310	.1	2	6	10360	2710	5	2210	118	4	480	2	10	26	3	7	1	51	1.5	113	5	2	9	214	15	
11517	.6	4230	18	1	43	1.6	2	10070	.1	1	5	8550	1910	2	1580	218	6	410	1	90	22	3	15	1	31	1.8	80	3	2	6	147	27	
11518	.6	5120	19	2	59	2.3	2	8430	.1	1	6	9500	2800	2	1740	220	6	440	4	10	26	6	14	1	36	1.7	128	4	1	8	204	6	
11519	.6	3960	22	3	50	1.7	2	7510	.1	1	5	7160	2390	1	2190	184	7	280	1	10	21	13	12	1	24	1.6	107	3	1	5	134	1	
11520	.6	4270	20	4	499	1.3	2	10170	.1	1	4	8660	2440	2	3570	286	2	240	1	10	20	16	17	1	27	1.8	96	4	1	5	126	9	
11521	.6	3650	18	2	96	1.7	3	7840	.1	1	5	7000	2270	1	2440	192	5	220	1	10	23	13	12	1	25	1.6	101	3	1	4	103	8	
11522	.7	3000	43	4	169	1.3	2	11630	.1	1	4	9170	1900	1	4300	279	1	150	1	20	24	14	19	1	17	1.9	91	4	1	4	84	4	
11523	1.1	3610	23	2	113	2.9	4	56850	.1	2	5	14450	2190	2	6880	1522	3	140	1	90	26	9	64	1	20	3.1	90	5	1	3	68	6	
11524	.8	2340	33	2	33	1.4	3	11590	.1	2	6	10850	1510	1	3630	287	2	230	1	10	21	12	17	1	17	1.7	124	4	1	5	118	15	
11525	.7	2810	19	1	24	1.3	2	8170	.1	1	5	8540	1150	2	2920	173	6	360	2	50	24	6	14	1	18	1.5	106	4	1	6	136	5	
11526	1.4	5340	13	8	42	2.9	2	14220	.1	1	6	8380	2880	2	3570	267	1	270	1	30	27	6	25	3	31	1.7	100	3	1	4	94	2	
11527	1.0	15710	42	13	155	2.9	1	6580	.1	2	7	14190	6160	16	10030	98	4	80	2	10	36	4	16	1	40	2.8	136	5	1	5	117	1	
11528	1.0	21200	41	12	217	4.0	1	2780	.1	2	8	14990	8690	21	11770	73	5	80	1	10	31	4	11	2	40	2.8	212	6	1	6	136	2	
11529	.7	18330	18	11	191	3.4	1	2990	.1	2	5	10530	8090	19	10570	65	2	80	2	10	18	1	12	1	42	2.0	156	5	1	5	105	1	
11530	1.5	18810	23	11	226	5.2	1	2380	.1	1	6	8190	9260	18	5560	47	3	90	1	10	20	4	9	3	33	1.3	126	5	1	3	65	2	
11531	.5	2650	40	4	60	.7	1	2570	.1	1	6	8880	1210	1	1020	41	7	1940	5	20	24	20	6	1	27	1.1	79	2	1	7	174	2	
11532	.8	9820	28	6	141	3.0	1	9630	.1	1	8	10630	4830	8	3180	140	3	1800	1	10	31	4	21	3	45	1.5	138	4	1	3	74	2	
11533	.6	14170	27	8	205	3.1	1	3960	.1	2	5	9570	6020	14	5440	90	1	180	3	10	20	1	7	2	59	1.1	140	4	1	4	104	3	
11534	2.0	10090	34	12	114	2.4	1	11470	.1	1	8	9530	4120	16	4030	272	2	1840	1	10	30	2	18	1	48	1.9	99	5	1	4	99	1	
11535	1.0	13990	29	7	153	4.0	1	13110	.1	2	8	12510	6620	10	3800	152	3	1490	1	10	27	1	38	1	56	1.8	152	4	1	4	96	1	
11536	.8	12860	10	9	139	3.8	2	8410	.1	1	5	7710	5780	9	3620	105	1	190	1	10	21	1	23	3	59	1.4	133	5	1	4	98	1	
11537	.8	9300	20	4	98	2.8	1	7010	.1	1	6	8980	3980	6	2390	134	1	320	4	10	21	2	12	1	42	1.2	101	4	1	6	152	1	
11538	.7	7420	13	4	80	2.6	1	11700	.1	1	6	7130	3480	3	1940	216	1	450	1	10	19	1	23	1	51	1.7	98	3	1	6	150	2	
11539	.8	4850	18	3	48	1.5	1	9700	.1	1	7	9150	1980	3	2180	159	1	2030	4	10	26	3	21	2	46	1.6	117	3	1	7	170	2	
11540	1.0	7340	17	5	77	2.9	1	11380	.1	1	7	8600	3610	3	2310	157	1	2880	1	10	35	4	32	3	46	1.8	130	4	1	4	108	2	
11541	.7	9900	18	8	101	3.9	1	6640	.1	1	6	8360	5010	3	3190	119	1	1130	2	10	24	2	16	3	53	1.3	125	4	1	5	108	3	
11542	.9	5230	20	3	46	2.0	1	13230	.1	1	5	7690	2380	3	2850	305	1	1770	2	10	29	3	25	1	35	1.9	86	3	1	6	158	2	
11543	.9	8630	11	4	88	3.3	1	11380	.1	1	6	7660	4420	3	3690	248	1	3840	4	10	40	4	26	2	45	1.8	115	4	1	4	82	1	
11544	.8	3050	34	9	73	1.0	1	5300	.1	1	8	7510	1710	1	1470	92	5	390	2	40	26	17	6	2	18	1.3	101	1	1	4	90	1	
11545	.8	3060	23	6	53	.8	1	2630	.2	1	5	6000	1670	1	690	52	6	680	1	30	20	19	4	2	19	1.0	90	1	1	5	124	2	
11546	.8	2420	24	4	27	.5	1	5910	.1	1	5	7000	1180	1	1630	95	6	930	2	20	21	8	7	2	22	1.3	97	1	1	6	164	3	
11547	.6	1800	31	4	28	.3	1	870	.1	1	5	9430	750	1	250	33	7	1000	1	20	19	15	2	1	18	.7	46	1	1	4	115	1	
11548	.8	3890	46	4	57	.6	1	970	.1	2	6	11440	1790	1	410	24	9	730	1	30	27	11	2	2									

APPENDIX C

VOLUME V  
DRILL HOLES 91-81 TO 91-112 GEOLOGIC,  
STRATIGRAPHIC, AND STRUCTURAL LOGS,  
GEOCHEMICAL ANALYSES AND ASSAYS

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AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-81  
 SIB PROPERTY DIAMOND DRILL LOG

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NTS MAP # : 1048/9 CLAIM # : SIB 10, 33  
 LOCAL GRID : 9261.83 N / 9676.09 E GLOBAL GRID : 13620.66 N / 17903.60 E  
 LENGTH : 36.60 m INCLINATION : -90.0 degrees ELEVATION : 1009.39 metres  
 OVERBURDEN : 3.05 m CASING : 3.05 metres AZIMUTH : Vertical  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/29 DATE DRILLED : 1991/07/28 CORE LOCATION: 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 11527-11543

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SUMMARY LOG 91-81

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From(m)	To(m)	Field Name (Legend)
0.00	3.05	CASING
3.05	10.50	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
10.50	13.80	BLACK CHERT - CHERT BRECCIA (3.3)
13.80	26.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
26.00	32.00	BLACK CHERT - CHERT BRECCIA (3.3)
32.00	36.60	GREEN-BLACK RHYOLITIC FLOW (3.2)
36.60		END OF HOLE.

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ANALYTICAL HIGHLIGHTS 91-81

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From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
No significant results.						



From(m)	To(m)	-----Description-----
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0.00	3.05	CASING
3.05	10.50	TUFFACEOUS RHYOLITE -SERICITE (3.9a)

## Lithology

-Grey green, uniform placid - pale colour, lapilli type fragmental, clasts appear to be siliceous, with rarer shard like clasts and half "digested" mudstone or chert breccia clasts. Average size is 1 - 1.5cm, but another population of 3 - 4cm clasts present in some sections. Fragment dominated, 60 - 70% fragments, 30 - 40% ash and debris matrix.

## Structure

-Semi-massive, uniform, lower contact unclear due to limonitic staining on core and broken surfaces. But contact is sharp, distinct.

## Alteration

-Weak sericite alteration, silica overprint.

## Mineralization

-Unmineralized.

10.50	13.80	BLACK CHERT - CHERT BRECCIA (3.3)
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## Lithology

-Grey, black, very hard, siliceous, angular and rounded black chert breccia? in an aphanitic (glass-like) matrix. Resembles a flow more than a sediment.

## Structure

-Massive, lower contact @ 85 degrees to c/a. Sericitic bands.

## Alteration

-Silicified, or very hard due to rock type.

## Mineralization

-Unmineralized.

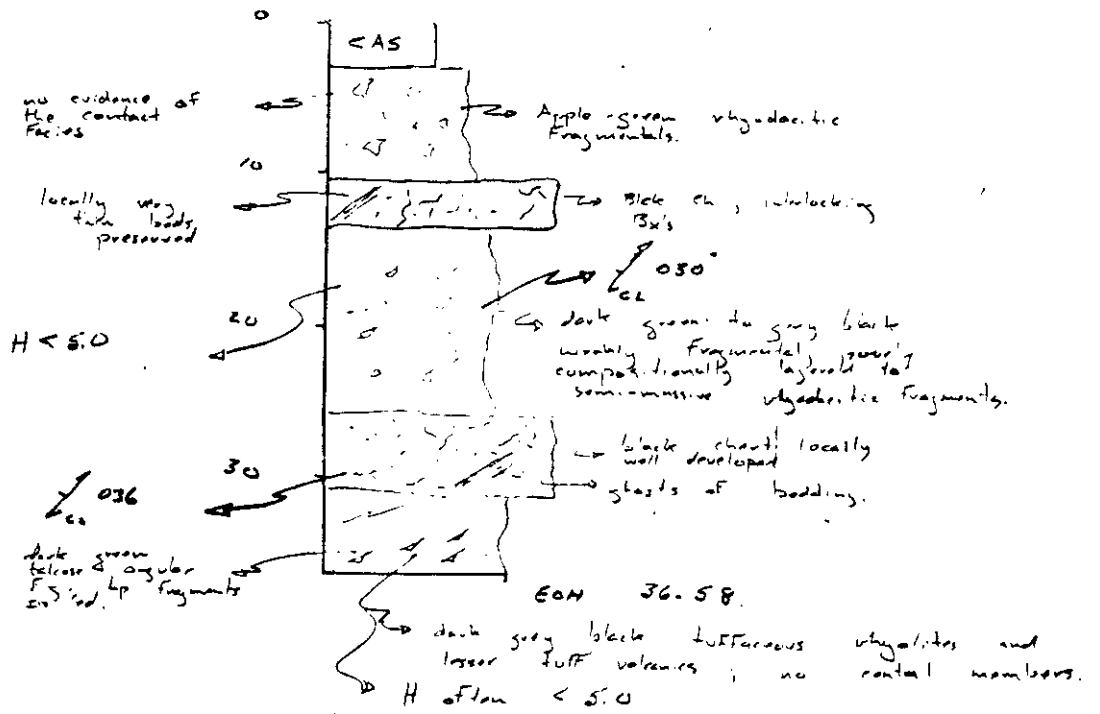
13.80	26.00	TUFFACEOUS RHYOLITE -SERICITE (3.9a)
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## Lithology &lt;13.8&gt;-&lt;22.5&gt;

-Dark grey, upper portion yellow-green to dark grey, fragmental type texture, sorting and bedding common. Fining upward down hole, black chert dominated, but volcanic fragments also common. Fragments are up to 5.5cm, but from 13.8 - 19.0 metres the average size 2.0 - 3.0cm. Matrix is fine to very fine grained, with siliceous and lesser argillaceous material, some sections have an aphanitic matrix -glassy looking. From 19.0 - 22.5 metres, the rock is a fine grained fragmental tuff, laminations common (heterolithic type of unit).

From(m)	To(m)	-----Description-----
		<p>Structure</p> <p>-Bedding common through this interval. Measurements as follow: 15.0m: 45 degrees to c/a, 19.0m: 50 degrees to c/a, 22.0m: 55 degrees to c/a. Lower contact is at 70 degrees to c/a, appears to be a flow type contact.</p> <p>Alteration</p> <p>-Silicified, rock is hard.</p> <p>Mineralization</p> <p>-Unmineralized.</p> <p>Lithology &lt;22.5&gt;-&lt;26.0&gt;</p> <p>-Grey, black, unsorted / chaotic, or flow type textures, black and green volcanic clasts appear suspended in a very fine to aphanitic siliceous matrix.</p> <p>Structure</p> <p>-Semi-massive, alternating fine and coarser sections, where present. Contacts @ 65 - 70 degrees to c/a. Lower contact vague.</p> <p>Alteration</p> <p>-Very weak sericite alteration, silicified.</p> <p>Mineralization</p> <p>-Unmineralized.</p>
26.00	32.00	<p>BLACK CHERT - CHERT BRECCIA (3.3)</p> <p>Lithology &lt;26.0&gt;-&lt;31.0&gt;</p> <p>-Black to dark grey, very hard, rounded to semi-rounded chert fragments in a dark grey, very fine grained and aphanitic matrix. &lt;3% volcanic fragments, and the black fragments make up 15 - 20% of the unit. Patchy carbonate alteration on surface.</p> <p>Structure</p> <p>-Bedding very poorly defined @ 55 - 60 degrees to c/a.</p> <p>Alteration</p> <p>-Silicified. Patchy, very weak carbonate alteration, occurs on volcanic clasts. -Hairline to 4mm in width carbonate (Fe-rich?) veinlets common. Preferred orientation at 70 degrees to c/a.</p> <p>Mineralization</p> <p>-Unmineralized.</p>

From(m)	To(m)	-----Description-----
32.00	36.60	<p>GREEN-BLACK RHYOLITIC FLOW (3.2)</p> <p>Lithology &lt;31.0&gt;-&lt;36.6&gt;</p> <p>-Dark grey, some grey-black patches (chert rich sections), heterolithic fragmental -black chert, rhyolitic to dacitic fragments, glass shards?, and clastic looking, in a very fine grained ash matrix, some sections have a "greywacke" looking matrix. Textural and compositional variations common: 31.0 - 31.6m, ash / greywacke type rock; 31.6 - 32.2, layered tuff (ash matrix); 32.2 - 33.0, flow-like rock - fragmental melange; 33.0 - 34.0m, Black chert type tuff; 34.0 - 35.2m, fragmental / clast type tuff, low matrix content; 35.2 - 36.6m, mixed ash / fragmental / greywacke type interval.</p> <p>Structure</p> <p>-Bedded sections (see above); at 32.0m: 55 degrees; 34.2m: 60 degrees; 35.0m: 53 degrees to c/a. No other structural complications.</p> <p>Alteration</p> <p>-Silicified.</p> <p>-Isolated net like carbonate veinlets from 32.2 - 32.6m. The rock within this interval is very weakly carbonatized.</p> <p>Mineralization</p> <p>-Unmineralized.</p>
36.60		END OF HOLE.



- very low  $P_2 < 1\%$ , sulphide development  
 - across this interval

## AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

## SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb	
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
91-81	11527	3.05	5.00	1.95	-	-	1	-	-	1.0	42	4	155	-	7	36	136	14190	6580	
91-81	11528	5.00	7.00	2.00	-	-	2	-	-	1.0	41	4	217	-	8	31	212	14990	2780	
91-81	11529	7.00	9.00	2.00	-	-	1	-	-	0.7	18	1	191	-	5	18	156	10530	2990	
91-81	11530	9.00	10.50	1.50	-	-	2	-	-	1.5	23	4	226	-	6	20	126	8190	2380	
91-81	11531	10.50	13.00	2.50	-	-	2	-	-	0.5	40	20	60	-	6	24	79	8880	2570	
91-81	11532	13.00	15.00	2.00	-	-	2	-	-	0.8	28	4	141	-	8	31	138	10630	9630	
91-81	11533	15.00	17.00	2.00	-	-	3	-	-	0.6	27	1	205	-	5	20	140	9570	3960	
91-81	11534	17.00	19.00	2.00	-	-	1	-	-	2.0	34	2	114	-	8	30	99	9530	11470	
91-81	11535	19.00	21.00	2.00	-	-	1	-	-	1.0	29	1	153	-	8	27	152	12510	13110	
91-81	11536	21.00	23.00	2.00	-	-	1	-	-	0.8	10	1	139	-	5	21	133	7710	8410	
91-81	11537	23.00	25.00	2.00	-	-	1	-	-	0.8	20	2	98	-	6	21	101	8980	7010	
91-81	11538	25.00	27.00	2.00	-	-	2	-	-	0.7	13	1	80	-	6	19	98	7130	11700	
91-81	11539	27.00	29.00	2.00	-	-	2	-	-	0.8	18	3	48	-	7	26	117	9150	9700	
91-81	11540	29.00	31.00	2.00	-	-	2	-	-	1.0	17	4	77	-	7	35	130	8600	11380	
91-81	11541	31.00	33.00	2.00	-	-	3	-	-	0.7	18	2	101	-	6	24	125	8360	6640	
91-81	11542	33.00	35.00	2.00	-	-	2	-	-	0.9	20	3	46	-	5	29	86	7690	13230	
91-81	11543	35.00	36.58	1.58	-	-	1	-	-	0.9	11	4	88	-	6	40	115	7660	11380	

COMP: COPELAND, REBAGLIATI & ASSOC.

PROJ: 9101

ATTN: M.REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ53+54

DATE: 91/10/17

\* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPM	HG PPM
11500	.6	13610	46	6	159	2.9	3	4080	.1	2	6	11470	6140	11	7700	71	4	60	1	10	21	8	17	1	33	1.7	139	6	1	4	90	5	
11501	.5	21040	52	8	203	3.3	3	3800	.1	2	6	17900	8190	24	13470	94	11	70	1	10	22	8	14	1	46	2.5	187	7	1	4	107	1	
11502	.5	13650	48	5	153	2.5	2	3560	.1	2	6	13340	6040	14	7700	55	8	70	1	10	24	6	13	1	40	1.8	168	6	1	5	117	6	
11503	.4	17640	30	5	187	3.0	3	3430	.1	2	5	12190	7340	21	9920	63	7	120	1	10	24	3	11	1	52	2.0	109	7	1	5	105	3	
11504	.5	6860	44	2	109	1.3	2	5130	.1	1	6	9190	2850	6	2760	56	6	380	1	30	24	13	12	1	33	1.4	66	4	3	5	130	2 635	
11505	.4	5470	94	3	107	1.6	2	1820	.1	1	6	10810	2920	3	910	20	24	320	1	40	30	25	5	1	37	1.2	132	3	2	4	109	11 510	
11506	.2	2860	95	2	56	.5	2	980	.1	2	6	14220	1490	1	310	17	19	500	1	40	23	16	3	1	36	1.0	95	2	3	7	171	5 440	
11507	.2	3210	47	1	60	.7	2	3180	.1	1	5	8130	1710	2	350	33	14	480	2	140	18	8	6	1	40	1.5	102	2	2	7	184	1 325	
11508	.4	10250	25	3	183	2.6	3	3830	.1	2	6	11170	5150	10	3750	88	2	230	1	20	29	6	12	1	62	1.3	152	5	3	5	110	2 145	
11509	.4	10120	21	2	162	2.4	2	3020	.1	1	4	8530	4960	11	3620	65	6	210	1	10	25	3	8	1	53	1.5	105	5	2	5	116	3 105	
11510	.5	12520	23	3	176	2.9	3	4410	.1	2	6	11440	5800	14	4640	96	4	220	1	40	26	3	10	2	63	1.6	124	6	2	7	154	10 120	
11511	.6	4870	51	1	94	1.2	2	13680	.1	2	5	10300	2600	4	1050	244	8	400	5	540	22	5	31	1	45	1.8	92	3	2	8	207	12 140	
11512	.7	8200	30	2	122	2.7	2	10310	.1	2	6	11520	3900	7	2180	224	3	170	1	10	23	3	18	1	45	1.6	118	4	2	5	118	6 155	
11513	.7	6830	22	1	88	1.9	2	11760	.1	2	6	9260	3190	5	1780	523	7	370	6	10	25	3	16	1	46	1.8	82	4	2	9	223	3 85	
11514	.5	6720	16	1	92	2.1	2	5580	.1	1	6	7760	3130	5	1610	109	3	260	1	10	22	4	13	2	51	1.2	116	3	3	6	148	1 110	
11515	.5	7400	20	2	74	2.5	2	7670	.1	2	7	10610	3410	4	2060	169	7	430	5	10	27	2	12	1	50	1.7	106	4	2	9	225	4 75	
11516	.5	6980	26	1	68	1.7	2	4310	.1	2	6	10360	2710	5	2210	118	4	480	2	10	26	3	7	1	51	1.5	113	5	2	9	214	15 60	
11517	.6	4230	18	1	43	1.6	2	10070	.1	1	5	8550	1910	2	1580	218	6	410	1	90	22	3	15	1	31	1.8	80	3	2	6	147	27 60	
11518	.6	5120	19	2	59	2.3	2	8430	.1	1	6	9500	2800	2	1740	220	6	440	4	10	26	6	14	1	36	1.7	128	4	1	8	204	6	
11519	.6	3960	22	3	50	1.7	2	7510	.1	1	5	7160	2390	1	2190	184	7	280	1	10	21	13	12	1	24	1.6	107	3	1	5	134	1	
11520	.6	4270	20	4	499	1.3	2	10170	.1	1	4	8660	2440	2	3570	286	2	240	1	10	20	16	17	1	27	1.8	96	4	1	5	126	9	
11521	.6	3650	18	2	96	1.7	3	7840	.1	1	5	7000	2270	1	2440	192	5	220	1	10	23	13	12	1	25	1.6	101	3	1	4	103	8	
11522	.7	3000	43	4	169	1.3	2	11630	.1	1	4	9170	1900	1	4300	279	1	150	1	20	24	14	19	1	17	1.9	91	4	1	4	84	4	
11523	1.1	3610	23	2	113	2.9	4	56850	.1	2	5	14450	2190	2	6880	1522	3	140	1	90	26	9	64	1	20	3.1	90	5	1	3	68	6	
11524	.8	2340	33	2	33	1.4	3	11590	.1	2	6	10850	1510	1	3630	287	2	230	1	10	21	12	17	1	17	1.7	124	4	1	5	118	15	
11525	.7	2810	19	1	24	1.3	2	8170	.1	1	5	8540	1150	2	2920	173	6	360	2	50	24	6	14	1	18	1.5	106	4	1	6	136	5	
11526	1.4	5340	13	8	42	2.9	2	14220	.1	1	6	8380	2880	2	3570	267	1	270	1	30	27	6	25	3	31	1.7	100	3	1	4	94	2	
11527	1.0	15710	42	13	155	2.9	1	6580	.1	2	7	14190	6160	16	10030	98	4	80	2	10	36	4	16	1	40	2.8	136	5	1	5	117	1	
11528	1.0	21200	41	12	217	4.0	1	2780	.1	2	8	14990	8690	21	11770	73	5	80	1	10	31	4	11	2	40	2.8	212	6	1	6	136	2	
11529	.7	18330	18	11	191	3.4	1	2990	.1	2	5	10530	8090	19	10570	65	2	80	2	10	18	1	12	1	42	2.0	156	5	1	5	105	1	
11530	1.5	18810	23	11	226	5.2	1	2380	.1	1	6	8190	9260	18	5560	47	3	90	1	10	20	4	9	3	33	1.3	126	5	1	3	65	2	
11531	.5	2650	40	4	60	.7	1	2570	.1	1	6	8880	1210	1	1020	41	7	1940	5	20	24	20	6	1	27	1.1	79	2	1	7	174	2	
11532	.8	9820	28	6	141	3.0	1	9630	.1	1	8	10630	4830	8	3180	140	3	1800	1	10	31	4	21	3	45	1.5	138	4	1	3	74	2	
11533	.6	14170	27	8	205	3.1	1	3960	.1	2	5	9570	6020	14	5440	90	1	180	3	10	20	1	7	2	59	1.1	140	4	1	4	104	3	
11534	2.0	10090	34	12	114	2.4	1	11470	.1	1	8	9530	4120	16	4030	272	2	1840	1	10	30	2	18	1	48	1.9	99	5	1	4	99	1	
11535	1.0	13990	29	7	153	4.0	1	13110	.1	2	8	12510	6620	10	3800	152	3	1490	1	10	27	1	38	1	56	1.8	152	4	1	4	96	1	
11536	.8	12860	10	9	139	3.8	2	8410	.1	1	5	7710	5780	9	3620	105	1	190	1	10	21	1	23	3	59	1.4	133	5	1	4	98	1	
11537	.8	9300	20	4	98	2.8	1	7010	.1	1	6	8980	3980	6	2390	134	1	320	4	10	21	2	12	1	42	1.2	101	4	1	6	152	1	
11538	.7	7420	13	4	80	2.6	1	11700	.1	1	6	7130	3480	3	1940	216	1	450	1	10	19	1	23	1	51	1.7	98	3	1	6	150	2	
11539	.8	4850	18	3	48	1.5	1	9700	.1	1	7	9150	1980	3	2180	159	1	2030	4	10	26	3	21	2	46	1.6	117	3	1	7	170	2	
11540	1.0	7340	17	5	77	2.9	1	11380	.1	1	7	8600	3610	3	2310	157	1	2880	1	10	35	4	32	3	46	1.8	130	4	1	4	108	2	
11541	.7	9900	18	8	101	3.9	1	6640	.1	1	6	8360	5010	3	3190	119	1	1130	2	10	24	2	16	3	53	1.3	125	4	1	5	108	3	
11542	.9	5230	20	3	46	2.0	1	13230	.1	1	5	7690	2380	3	2850	305	1	1770	2	10	29	3	25	1	35	1.9	86	3	1	6	158	2	
11543	.9	8630	11	4	88	3.3	1	11380	.1	1	6	7660	4420	3	3690	248	1	3840	4	10	40	4	26	2	45	1.8	115	4	1	4	82	1	
11544	.8	3050	34	9	73	1.0	1	5300	.1	1	8	7510	1710	1	1470	92	5	390	2	40	26	17	6	2	18	1.3	101	1	1	4	90	1	
11545	.8	3060	23	6	53	.8	1	2630	.2	1	5	6000	1670	1	690	52	6	680	1	30	20	19	4	2	19	1.0	90	1	1	5	124	2	
11546	.8	2420	24	4	27	.5	1	5910	.1	1	5	7000	1180	1	1630	95	6	930	2	20	21	8	7	2	22	1.3	97	1	1	6	164	3	
11547	.6	1800	31	4	28	.3	1	870	.1	1	5	9430	750	1	250	33	7	1000	1	20	19	15	2	1	18	.7	46	1	1	4	115	1	

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-82  
 SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 104B/9 CLAIM # : SIB 10, 31  
 LOCAL GRID : 9344.88 N / 9679.50 E GLOBAL GRID : 13693.29 N / 17944.03 E  
 LENGTH : 61.00 m INCLINATION : -45.5 degrees ELEVATION : 1020.12 metres  
 OVERBURDEN : 1.50 m CASING : 1.50 metres AZIMUTH : 113.5 degrees  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/30 DATE DRILLED : 1991/07/29 CORE LOCATION: 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 11544-115793

## SUMMARY LOG

91-82

From(m)	To(m)	Field Name (Legend)
0.00	1.50	CASING
1.50	6.00	BLACK CHERT - CHERT BRECCIA (3.3)
6.00	13.70	BLACK CHERT - CHERT BRECCIA -BRECCIATED (3.3 Bx)
13.70	15.50	BLACK CHERT - CHERT BRECCIA (3.3) +/- GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)
15.50	17.20	RHYODACITIC FRAGMENTAL (3.0)
17.20	27.00	GREEN-BLACK RHYOLITIC FLOW (3.2)
27.00	35.00	GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)
35.00	37.70	RHYODACITIC FRAGMENTAL -ASH (3.0A)
37.70	48.80	GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4) AND GREEN-BLACK RHYOLITIC FLOW (3.2)
48.80	61.00	RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
61.00		END OF HOLE.

## ANALYTICAL HIGHLIGHTS

91-82

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
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No significant results.

From(m)	To(m)	Description
0.00	1.50	CASING
1.50	6.00	BLACK CHERT - CHERT BRECCIA (3.3)
6.00	13.70	BLACK CHERT - CHERT BRECCIA -BRECCIATED (3.3 Bx)
13.70	15.50	BLACK CHERT - CHERT BRECCIA (3.3) +/- GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)
15.50	17.20	RHYODACITIC FRAGMENTAL (3.0)

#### Lithology

-Grey to dark grey to black, greenish yellow from 16.0 - 17.2. type of rock uncertain. Black chert or silicified mudstone dominated unit, other fragment types rare until 15.0 metres mark, where rhyolitic to dacitic fragments occur. From 1.5 - 8.2 the unit resembles a rhyolitic flow breccia. Matrix is very fine grained to aphanitic, in part glassy. Percentage of black angular and rounded fragments varies. Unit subdivided as follows:

1.5 - 6.0m: -Rhyolitic breccia "looking" rock. 2 - 3% black fragments in a aphanitic siliceous matrix. Massive looking, chert bands from 4.0 - 4.25m.

6.0 - 12.0m: -As above, except black angular to semi-rounded chert comprises 30 - 40% of the interval. Gradational contacts, as with upper interval.

12.0 - 13.7m: -Black chert "tuff", semi-rounded and lesser sub-angular black chert fragments in a hard siliceous matrix. Fragments are from 0.3 - 1.0cm.

13.7 - 15.5m: -Ash / chert "tuff" -black chert, angular fragments 0.4 - 3.0cm, suspended in a greyish siliceous matrix. 15 - 20% fragments, 80 - 85% matrix; grades upward into a volcanic type fragmental. Semi-massive texture.

15.5 - 17.2m: -Essentially a volcanic fragmental, fragments are rhyolitic to dacitic; embedded / surrounded by a greyish-green siliceous matrix. Fragment types vary, as with the sizes from 0.2 - 2.0cm. Upper 40 centimetres of this interval resembles a "reworked" tuff because the textures are not preserved.

#### Structure

-Essentially a massive to semi-massive unit, poorly sorted to chaotic, -if the unit is a volcanoclastic or pyroclastic type of rock.

-Fault (brittle shear) from 8.0 - 9.14 metres, contacts not preserved. Rubbly core; veined pieces common. This may be a large surface fracture. No gouge noted.

#### Alteration

-Weak to very weak sericite alteration, moderately silicified; unit is very hard.

-Sporadic quartz - Fe-carbonate veinlets (hairline size). 0.6cm quartz - Fe-carbonate vein at 7.9m; 70 degrees to c/a; large 0.4cm cubic crystal of pyrite.



From(m)      To(m)      -----Description-----

17.20      27.00      GREEN-BLACK RHYOLITIC FLOW (3.2)  
 27.00      35.00      GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4)

#### Lithology

- Grey to medium grey, with some darker grey components; and the lighter grey-green sections represent volcanic rich beds. Textures and fabric are variable. Percentage and type of clasts change over short intervals. Rare layered / bedded sections are probably tuffaceous.
- Fragments include volcanics (rhyolitic, rhyodacitic, dacitic, siliceous, black chert fragments) and sediments (wackestone, mudstone fragments). Volcanic dominates.
- Matrix includes ash, fine argillaceous (dark chlorite?), crystal, and smaller fragment debris. Volcanic rich tuff/ash intervals @ 23.7 - 24.0m: bedding at 45 degrees to c/a; 25.2 - 25.9m: semi-massive section; 31.0 - 32.0: well developed ash tuff with 20% fragmentals at 50 degrees to c/a.

#### Structure

- Semi-massive to poorly foliated, or it is bedding, poorly sorted, chaotic textures, bedding developed in the ash/fragmental sections.
- Bedding angles in "argillaceous" sub-intervals vary, and are not considered diagnostic of the unit. Lower contact is fairly sharp at 60 degrees to c/a.

#### Alteration

- Very weak sericitic alteration, moderate silicification. Fractures at 35 - 38 degrees to c/a, with some at 70 degrees to c/a, limonitic.

#### Mineralization

- Stibnite, as radial crystal aggregates from 24.0 - 26.8m in fractures.
- From 26.9 - 27.25, quartz - Fe-carbonate - stibnite vein network. Interconnected veining (stockwork) that carries stibnite in the central areas of the veins. Stibnite is massive to amorphous, crystals rare. Over this 0.35 metre interval, there is 3 - 5% stibnite. The stibnite is concentrated between 27.15 - 27.25 metres. The veins together average 50 - 65 degrees to c/a.
- Trace specs of syngenetic (depositional) pyrite throughout whole intervals.
- Trace stibnite coating approximately 30cm spaced fractures for about 1m uphole from 27.15m.
- Stibnite not found below 38.0 metres.

35.00      37.70      RHYODACITIC FRAGMENTAL -ASH (3.0A)

#### Lithology

- Off grey, mottled, mixture of some ash rich and fragmental rich sections, alteration obscures the true fragment/matrix relationships. 20 - 35% fragments (rhyodacitic), 65 - 80% ash matrix.

#### Structure

- Bedding at 55 - 60 degrees to c/a. Upper contact at 60 degrees to c/a, lower contact also at 60 degrees to c/a.

#### Alteration

- Silicified, hard, weak sericite alteration.

From (m)	To (m)	Description
37.70	48.80	GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4) AND GREEN-BLACK RHYOLITIC FLOW (3.2)

## Lithology

- Medium grey to greyish green, separate intervals of light grey and light green, representing ash rich sections.
- Primarily a mixed or heterolithic fragmental with some ash like interbeds. Bedding more developed in these ash rich beds.
- Fragmentals are 20 - 30% of rock, and are composed of felsic and intermediate clasts, mudstone or black chert clasts are rare. The matrix is siliceous, but also contains argillaceous or dark grey chloritic material. This appears as partings, thin layers, or as filaments surrounding clasts.
- Generally the unit is poorly sorted, bedding is rare (confined to the ash sections).

## Structure

- When present, bedding is at 50 - 60 degrees to c/a. Lower contact gradational over 50cm; the rock is then more volcanic, and the sericitic alteration is more evident.

## Alteration

- Very weak sericite alteration, moderate silica alteration (overprints the sericite alteration).
- Quartz - Fe-carbonate type veins noted, hairline in size. Isolated quartz - feldspar or quartz - Fe-carbonate vein at 47.65 metres. Barren, 1.5 - 1cm wide @ 35 degrees to c/a.

48.80	61.00	RHYOLITE FLOW (AUTOBRECCIATED) (3.8)
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## Lithology

- Greenish grey, light colour, creamy green-grey, other subtle colour changes are related to the decrease in fragmental and increase in ash components.
- Percentage of fragmentals difficult to determine, masked by the alterations, but it is believed to be 35 - 45%. Mosts clasts are rhyodacitic to dacitic (volcanic clasts), but rarer siliceous and glass-like angular fragments noted.
- The matrix is aphanitic, very hard, green, probably siliceous. It is thought to be composed of ash, because the ash rich sections are very similar to the matrix in fragmental portions.

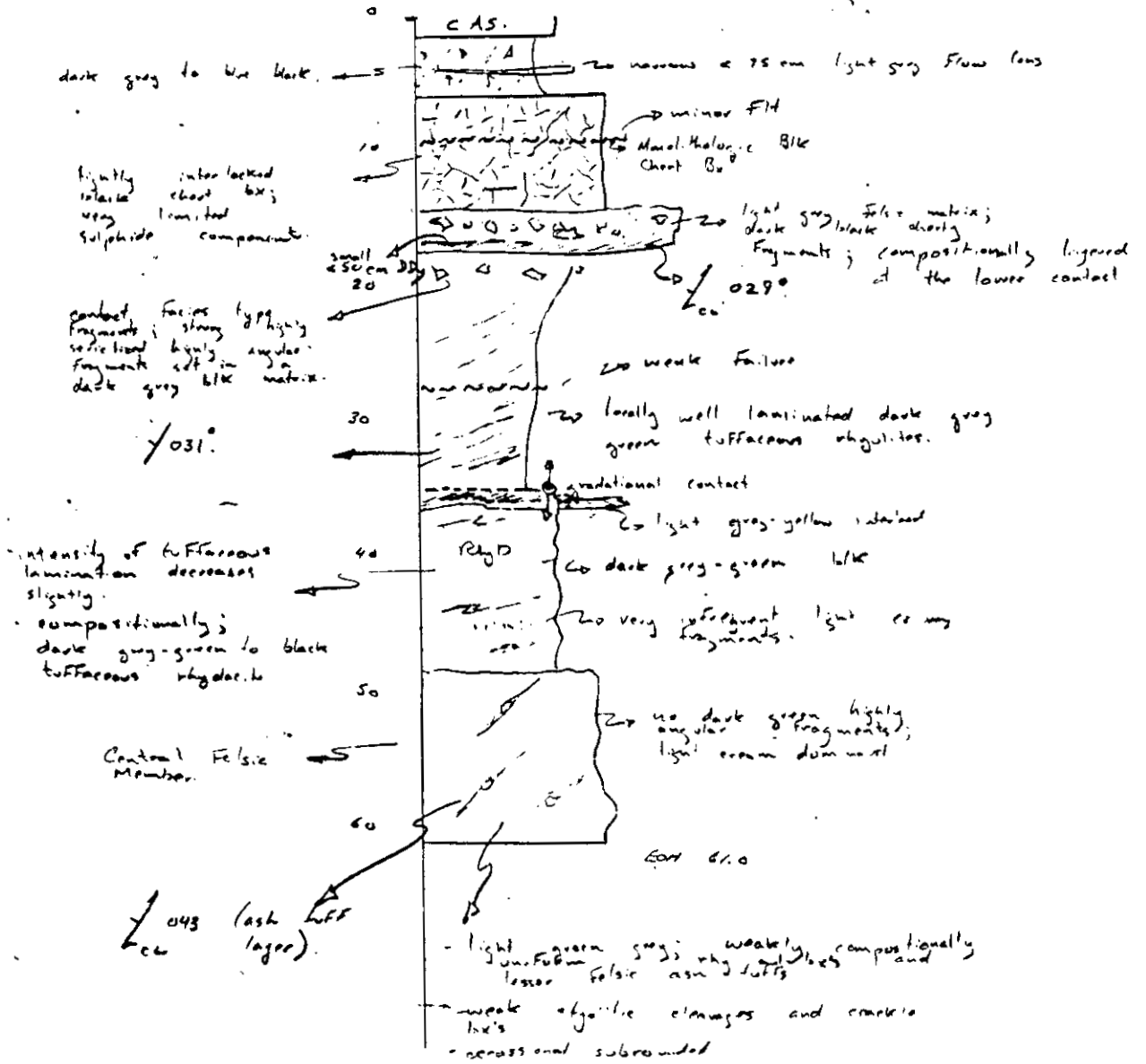
## Structure

- Fairly uniform unit, bedding where present is at 60 degrees to c/a. Bedding not well developed. Excellent core recoveries in this undisturbed interval.

## Alteration

- Weak sericite alteration, silica overprint (moderate to strong).
- Alteration has obscured the fragmental / pyroclastic textures.
- Quartz - Fe-carbonate veig at 55.60 metres. Vein is 5 - 7 cm wide at 75 degrees to c/a, 80% vein material, 20% xenoliths (wall rock). Barren.

61.00	END OF HOLE.	
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## AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

## - SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-82	11544	1.50	4.00	2.50	-	-	1	-	-	0.8	34	17	73	-	8	26	101	7510	5300
91-82	11545	4.00	6.00	2.00	-	-	2	-	-	0.8	23	19	53	-	5	20	90	6000	2630
91-82	11546	6.00	8.00	2.00	-	-	3	-	-	0.8	24	8	27	-	5	21	97	7000	5910
91-82	11547	8.00	10.00	2.00	-	-	1	-	-	0.6	31	15	28	-	5	19	46	9430	870
91-82	11548	10.00	12.00	2.00	-	-	1	-	-	0.8	46	11	57	-	6	27	69	11440	970
91-82	11549	12.00	14.00	2.00	-	-	3	-	-	0.7	59	13	29	-	8	32	75	15690	770
91-82	11550	14.00	16.00	2.00	-	-	1	-	-	1.0	22	5	34	-	5	20	95	5620	9890
91-82	11551	16.00	18.00	2.00	-	-	1	-	-	0.8	21	5	103	-	7	26	157	14440	5180
91-82	11552	18.00	20.00	2.00	-	-	4	-	-	1.0	23	2	39	-	5	23	112	9420	10000
91-82	11553	20.00	21.00	1.00	-	-	1	-	-	1.0	19	3	41	-	7	23	147	9680	10010
91-82	11554	21.00	22.00	1.00	-	-	2	-	-	1.0	16	10	77	-	6	25	136	7370	8500
91-82	11555	22.00	23.00	1.00	-	-	2	-	-	1.1	16	18	46	-	6	27	130	8180	8900
91-82	11556	23.00	24.00	1.00	-	-	1	-	-	1.1	21	21	32	-	5	23	125	8160	8370
91-82	11557	24.00	25.00	1.00	-	-	5	-	-	1.1	19	79	32	-	5	28	137	9100	11990
91-82	11558	25.00	26.00	1.00	-	-	2	-	-	1.1	28	32	46	-	8	22	115	10960	14410
91-82	11559	26.00	26.80	0.80	-	-	4	-	-	1.0	12	214	26	-	5	18	98	8200	13990
91-82	11560	26.80	27.40	0.60	-	-	2	-	-	0.9	16	13709	32	-	10	36	172	6500	9900
91-82	11561	27.40	28.00	0.60	-	-	1	-	-	1.1	15	263	36	-	6	37	86	8100	13030
91-82	11562	28.00	29.00	1.00	-	-	1	-	-	1.2	33	84	37	-	5	21	106	10280	11360
91-82	11563	29.00	30.00	1.00	-	-	2	-	-	1.0	16	27	36	-	5	20	86	8800	8450
91-82	11564	30.00	32.00	2.00	-	-	1	-	-	1.3	18	12	45	-	5	21	101	13670	16470
91-82	11565	32.00	34.00	2.00	-	-	5	-	-	1.2	21	12	44	-	5	25	125	10810	12530
91-82	11566	34.00	36.00	2.00	-	-	1	-	-	1.2	15	9	58	-	5	24	118	10790	10980
91-82	11567	36.00	38.00	2.00	-	-	2	-	-	1.0	34	8	48	-	5	25	139	10330	9810
91-82	11568	38.00	40.00	2.00	-	-	4	-	-	1.1	17	9	62	-	6	26	154	11800	6470
91-82	11569	40.00	42.00	2.00	-	-	1	-	-	1.0	21	6	66	-	6	25	138	10770	6380
91-82	11570	42.00	44.00	2.00	-	-	6	-	-	0.9	13	4	47	-	5	25	122	9360	3380
91-82	11571	44.00	46.00	2.00	-	-	1	-	-	0.9	18	4	32	-	5	20	117	7750	7650
91-82	11572	46.00	48.00	2.00	-	-	2	-	-	1.0	13	1	45	-	6	29	130	11050	4800
91-82	11573	48.00	50.00	2.00	-	-	1	-	-	1.2	18	3	39	-	5	20	109	7990	11130
91-82	11574	50.00	52.00	2.00	-	-	1	-	-	1.1	21	2	51	-	6	24	100	9780	3260
91-82	11575	52.00	54.00	2.00	-	-	2	-	-	1.0	13	2	35	-	6	25	106	9630	5170
91-82	11576	54.00	56.00	2.00	-	-	1	-	-	1.2	21	4	30	-	5	23	143	9410	7660
91-82	11577	56.00	58.00	2.00	-	-	1	-	-	0.9	13	3	30	-	5	25	113	9290	1290
91-82	11578	58.00	60.00	2.00	-	-	3	-	-	0.8	15	2	27	-	5	25	119	8800	340
91-82	11579	60.00	61.00	1.00	-	-	2	-	-	0.8	17	3	28	-	6	25	124	9050	440

COMP: COPELAND, REBAGLIATI & ASSOC.

PROJ: 9101

ATTN: M. REBAGLIATI

**MIN-EN LABS --- ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ53+54

DATE: 91/10/17

\* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPM	HG PPB
11500	.6	13610	46	6	159	2.9	3	4080	.1	2	6	11470	6140	11	7700	71	4	60	1	10	21	8	17	1	33	1.7	139	6	1	4	90	5	
11501	.5	21040	52	8	203	3.3	3	3800	.1	2	6	17900	8190	24	13470	94	11	70	1	10	22	8	14	1	46	2.5	187	7	1	4	107	1	
11502	.5	13650	48	5	153	2.5	2	3560	.1	2	6	13340	6040	14	7700	55	8	70	1	10	24	6	13	1	40	1.8	168	6	1	5	117	6	
11503	.4	17640	30	5	187	3.0	3	3430	.1	2	5	12190	7340	21	9920	63	7	120	1	10	24	3	11	1	52	2.0	109	7	1	5	105	3	
11504	.5	6860	44	2	109	1.3	2	5130	.1	1	6	9190	2850	6	2760	56	6	380	1	30	24	13	12	1	33	1.4	66	4	3	5	130	2 635	
11505	.4	5470	94	3	107	1.6	2	1820	.1	1	6	10810	2920	3	910	20	24	320	1	40	30	25	5	1	37	1.2	132	3	2	4	109	11 510	
11506	.2	2860	95	2	56	.5	2	980	.1	2	6	14220	1490	1	310	17	19	500	1	40	23	16	3	1	36	1.0	95	2	3	7	171	5 440	
11507	.2	3210	47	1	60	.7	2	3180	.1	1	5	8130	1710	2	350	33	14	480	2	140	18	8	6	1	40	1.5	102	2	2	7	184	1 325	
11508	.4	10250	25	3	183	2.6	3	3830	.1	2	6	11170	5150	10	3750	88	2	230	1	20	29	6	12	1	62	1.3	152	5	3	5	110	2 145	
11509	.4	10120	21	2	162	2.4	2	3020	.1	1	4	8530	4960	11	3620	65	6	210	1	10	25	3	8	1	53	1.5	105	5	2	5	116	3 105	
11510	.5	12520	23	3	176	2.9	3	4410	.1	2	6	11440	5800	14	4640	96	4	220	1	40	26	3	10	2	63	1.6	124	6	2	7	154	10 120	
11511	.6	4870	51	1	94	1.2	2	13680	.1	2	5	10300	2600	4	1050	244	8	400	5	540	22	5	31	1	45	1.8	92	3	2	8	207	12 140	
11512	.7	8200	30	2	122	2.7	2	10310	.1	2	6	11520	3900	7	2180	224	3	170	1	10	23	3	18	1	45	1.6	118	4	2	5	118	6 155	
11513	.7	6830	22	1	88	1.9	2	11760	.1	2	6	9260	3190	5	1780	523	7	370	6	10	25	3	16	1	46	1.8	82	4	2	9	223	3 85	
11514	.5	6720	16	1	92	2.1	2	5580	.1	1	6	7760	3130	5	1610	109	3	260	1	10	22	4	13	2	51	1.2	116	3	3	6	148	1 110	
11515	.5	7400	20	2	74	2.5	2	7670	.1	2	7	10610	3410	4	2060	169	7	430	5	10	27	2	12	1	50	1.7	106	4	2	9	225	4 75	
11516	.5	6980	26	1	68	1.7	2	4310	.1	2	6	10360	2710	5	2210	118	4	480	2	10	26	3	7	1	51	1.5	113	5	2	9	214	15 60	
11517	.6	4230	18	1	43	1.6	2	10070	.1	1	5	8550	1910	2	1580	218	6	410	1	90	22	3	15	1	31	1.8	80	3	2	6	147	27 60	
11518	.6	5120	19	2	59	2.3	2	8430	.1	1	6	9500	2800	2	1740	220	6	440	4	10	26	6	14	1	36	1.7	128	4	1	8	204	6	
11519	.6	3960	22	3	50	1.7	2	7510	.1	1	5	7160	2390	1	2190	184	7	280	1	10	21	13	12	1	24	1.6	107	3	1	5	134	1	
11520	.6	4270	20	4	499	1.3	2	10170	.1	1	4	8660	2440	2	3570	286	2	240	1	10	20	16	17	1	27	1.8	96	4	1	5	126	9	
11521	.6	3650	18	2	96	1.7	3	7840	.1	1	5	7000	2270	1	2440	192	5	220	1	10	23	13	12	1	25	1.6	101	3	1	4	103	8	
11522	.7	3000	43	4	169	1.3	2	11630	.1	1	4	9170	1900	1	4300	279	1	150	1	20	24	14	19	1	17	1.9	91	4	1	4	84	4	
11523	1.1	3610	23	2	113	2.9	4	56850	.1	2	5	14450	2190	2	6880	1522	3	140	1	90	26	9	64	1	20	3.1	90	5	1	3	68	6	
11524	.8	2340	33	2	33	1.4	3	11590	.1	2	6	10850	1510	1	3630	287	2	230	1	10	21	12	17	1	17	1.7	124	4	1	5	118	15	
11525	.7	2810	19	1	24	1.3	2	8170	.1	1	5	8540	1150	2	2920	173	6	360	2	50	24	6	14	1	18	1.5	106	4	1	6	136	5	
11526	1.4	5340	13	8	42	2.9	2	14220	.1	1	6	8380	2880	2	3570	267	1	270	1	30	27	6	25	3	31	1.7	100	3	1	4	94	2	
11527	1.0	15710	42	13	155	2.9	1	6580	.1	2	7	14190	6160	16	10030	98	4	80	2	10	36	4	16	1	40	2.8	136	5	1	5	117	1	
11528	1.0	21200	41	12	217	4.0	1	2780	.1	2	8	14990	8690	21	11770	73	5	80	1	10	31	4	11	2	40	2.8	212	6	1	6	136	2	
11529	.7	18330	18	11	191	3.4	1	2990	.1	2	5	10530	8090	19	10570	65	2	80	2	10	18	1	12	1	42	2.0	156	5	1	5	105	1	
11530	1.5	18810	23	11	226	5.2	1	2380	.1	1	6	8190	9260	18	5560	47	3	90	1	10	20	4	9	3	33	1.3	126	5	1	3	65	2	
11531	.5	2650	40	4	60	.7	1	2570	.1	1	6	8880	1210	1	1020	41	7	1940	5	20	24	20	6	1	27	1.1	79	2	1	7	174	2	
11532	.8	9820	28	6	141	3.0	1	9630	.1	1	8	10630	4830	8	3180	140	3	1800	1	10	31	4	21	3	45	1.5	138	4	1	3	74	2	
11533	.6	14170	27	8	205	3.1	1	3960	.1	2	5	9570	6020	14	5440	90	1	180	3	10	20	1	7	2	59	1.1	140	4	1	4	104	3	
11534	2.0	10090	34	12	114	2.4	1	11470	.1	1	8	9530	4120	16	4030	272	2	1840	1	10	30	2	18	1	48	1.9	99	5	1	4	99	1	
11535	1.0	13990	29	7	153	4.0	1	13110	.1	2	8	12510	6620	10	3800	152	3	1490	1	10	27	1	38	1	56	1.8	152	4	1	4	96	1	
11536	.8	12860	10	9	139	3.8	2	8410	.1	1	5	7710	5780	9	3620	105	1	190	1	10	21	1	23	3	59	1.4	133	5	1	4	98	1	
11537	.8	9300	20	4	98	2.8	1	7010	.1	1	6	8980	3980	6	2390	134	1	320	4	10	21	2	12	1	42	1.2	101	4	1	6	152	1	
11538	.7	7420	13	4	80	2.6	1	11700	.1	1	6	7130	3480	3	1940	216	1	450	1	10	19	1	23	1	51	1.7	98	3	1	6	150	2	
11539	.8	4850	18	3	48	1.5	1	9700	.1	1	7	9150	1980	3	2180	159	1	2030	4	10	26	3	21	2	46	1.6	117	3	1	7	170	2	
11540	1.0	7340	17	5	77	2.9	1	11380	.1	1	7	8600	3610	3	2310	157	1	2880	1	10	35	4	32	3	46	1.8	130	4	1	4	108	2	
11541	.7	9900	18	8	101	3.9	1	6640	.1	1	6	8360	5010	3	3190	119	1	1130	2	10	24	2	16	3	53	1.3	125	4	1	5	108	3	
11542	.9	5230	20	3	46	2.0	1	13230	.1	1	5	7690	2380	3	2850	305	1	1770	2	10	29	3	25	1	35	1.9	86	3	1	6	158	2	
11543	.9	8630	11	4	88	3.3	1	11380	.1	1	6	7660	4420	3	3690	248	1	3840	4	10	40	4	26	2	45	1.8	115	4	1	4	82	1	
11544	.8	3050	34	9	73	1.0	1	5300	.1	1	8	7510	1710	1	1470	92	5	390	2	40	26	17	6	2	18	1.3	101	1	1	4	90	1	
11545	.8	3060	23	6	53	.8	1	2630	.2	1	5	6000	1670	1	690	52	6	680	1	30	20	19	4	2	19	1.0	90	1	1	5	124	2	
11546	.8	2420	24	4	27	.5	1	5910	.1	1	5	7000	1180	1	1630	95	6	930	2	20	21	8	7	2	22	1.3	97	1	1	6	164	3	
11547	.6	1800	31	4	28	.3	1	870	.1	1	5	9430	750	1	250	33	7	1000	1	20	19	15	2	1	18	.7	46	1	1	4	115	1	

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

MIN-EN LABS — ICP REPORT  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ55+56  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BT PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
11556	1.1	3140	21	3	32	1.5	1	8370	.1	1	5	8160	1700	1	3100	149	7	270	1	20	23	21	16	1	18	1.6	125	2	1	5	128	1	
11557	1.1	3360	19	4	32	1.4	2	11990	.1	1	5	9100	1640	1	4190	161	21	250	1	720	28	79	22	1	18	1.8	137	3	1	3	76	5	
11558	1.1	4790	28	6	46	2.0	1	14410	.1	1	8	10960	2570	1	5310	225	11	310	1	70	22	32	20	2	17	2.0	115	3	1	5	125	2	
11559	1.0	2870	12	6	26	1.3	1	13990	.1	1	5	8200	1720	1	5250	271	2	290	1	50	18	214	18	1	10	1.7	98	2	1	3	76	4	
11560	.9	1580	16	3	32	1.0	1	9900	1.2	1	10	6500	1100	1	3260	276	5	200	3	30	36	13709	8	1	6	1.4	172	2	1	3	86	2	
11561	1.1	3790	15	5	36	1.9	1	13030	.1	1	6	8100	2230	1	5080	235	2	40	1	40	37	263	18	1	21	2.1	86	3	1	3	61	1	
11562	1.2	3920	33	5	37	1.9	2	11360	.1	1	5	10280	2260	1	4270	142	5	100	1	10	21	84	17	2	20	1.6	106	3	1	3	83	1	
11563	1.0	4040	16	4	36	1.8	1	8450	.1	1	5	8800	2220	1	3720	126	2	270	1	10	20	27	17	2	24	1.5	86	2	1	4	89	2	
11564	1.3	6850	18	3	45	2.5	2	16470	.1	2	5	13670	2520	6	6660	388	2	230	1	40	21	12	18	2	28	2.2	101	4	1	4	87	1	
11565	1.2	5510	21	3	44	2.5	1	12530	.1	1	5	10810	2500	3	6710	263	7	210	1	40	25	12	23	2	23	2.0	125	4	1	5	114	5	
11566	1.2	6170	15	3	58	2.9	1	10980	.1	1	5	10790	2980	2	7500	181	3	210	1	20	24	9	24	3	21	1.8	118	4	1	4	83	1	
11567	1.0	8010	34	3	48	2.6	1	9810	.1	1	5	10330	2730	7	8830	167	7	160	1	40	25	8	19	2	18	1.8	139	4	1	4	82	2	
11568	1.1	13600	17	4	62	3.8	2	6470	.1	2	6	11800	4390	14	12940	131	2	150	1	10	26	9	11	4	29	2.7	154	6	1	4	82	4	
11569	1.0	11010	21	3	66	2.4	2	6380	.1	1	6	10770	2960	12	12280	127	6	190	1	20	25	6	9	2	24	2.5	138	5	1	5	115	1	
11570	.9	10220	13	2	47	2.4	1	3380	.1	1	5	9360	3090	11	11040	89	2	250	1	20	25	4	6	2	25	1.9	122	5	1	4	92	6	
11571	.9	5310	18	1	32	1.9	2	7650	.1	1	5	7750	1750	6	9100	142	7	160	1	10	20	4	13	1	13	2.1	117	4	1	5	118	1	
11572	1.0	11060	13	3	45	3.2	3	4800	.1	1	6	11050	2610	19	16930	96	1	100	1	10	29	1	11	2	20	2.4	130	5	1	3	79	2	
11573	1.2	5180	18	2	39	2.3	2	11130	.1	1	5	7990	2190	4	11780	73	6	90	1	20	20	3	68	2	12	2.3	109	4	1	4	87	1	
11574	1.1	12940	21	3	51	2.8	2	3260	.1	1	6	9780	3120	17	15360	70	4	110	1	40	24	2	11	3	25	2.1	100	5	1	4	91	1	
11575	1.0	13920	13	1	35	3.0	2	5170	.1	1	6	9630	2640	20	16570	83	5	130	1	40	25	2	11	4	24	2.1	106	5	1	3	72	2	
11576	1.2	10210	21	1	30	2.6	1	7660	.1	1	5	9410	2390	13	16440	87	12	90	1	40	23	4	22	3	20	2.3	143	5	1	4	79	1	
11577	.9	10950	13	1	30	2.3	2	1290	.1	1	5	9290	1650	17	17290	64	4	90	1	30	25	3	6	1	11	2.0	113	5	1	3	67	1	
11578	.8	10390	15	1	27	2.7	1	340	.1	1	5	8800	1710	17	15170	53	8	70	1	30	25	2	4	1	10	1.7	119	5	1	3	74	3	
11579	.8	12740	17	1	28	2.5	2	440	.1	1	6	9050	1660	20	15930	53	5	100	1	30	25	3	4	1	13	2.0	124	6	1	4	79	2	
11580	.7	11910	45	10	84	1.1	2	140	.1	2	7	10140	2230	13	12060	20	5	60	2	30	29	5	2	1	21	3.1	85	5	1	5	98	8	
11581	1.0	9080	33	7	100	1.1	2	190	.1	1	6	7450	2510	8	6960	15	4	50	1	30	26	3	2	1	19	1.8	67	4	1	4	83	2	
11582	1.2	9110	39	6	106	1.8	2	260	.1	1	6	7660	2910	7	6100	22	5	100	1	20	22	4	3	1	28	1.9	95	4	1	5	125	11	
11583	.9	7200	38	6	106	2.3	1	250	.1	1	5	6060	2820	5	3980	20	3	80	2	30	34	4	3	1	22	1.1	103	3	1	4	88	3	
11584	.8	8570	49	7	110	1.9	2	470	.1	2	7	10720	3140	9	9140	29	6	120	2	30	30	5	4	1	20	2.4	141	5	1	5	116	4	
11585	.6	10040	35	5	110	2.5	2	390	.1	1	6	7290	3870	7	7820	20	4	80	1	20	32	4	3	2	28	1.9	116	5	1	5	100	2	
11586	.6	9480	27	4	155	2.4	2	220	.1	1	6	5710	3800	5	4870	16	4	50	1	20	25	4	3	2	28	1.5	117	5	1	4	80	1	
11587	.3	10170	24	4	62	1.3	3	390	.1	2	6	8760	2220	9	10340	20	5	80	1	40	23	3	3	1	23	2.6	73	5	1	5	112	16	
11588	.5	10260	25	4	73	1.6	2	400	.1	2	6	9190	2550	9	9500	23	6	100	2	40	22	4	3	1	24	2.7	98	6	1	6	123	7	
11589	.6	8130	31	4	58	1.4	2	920	.1	2	6	10090	1960	9	9280	21	5	120	1	40	22	5	4	1	20	2.5	81	6	1	5	106	4	
11590	.8	9590	29	5	86	1.8	3	230	.1	2	7	9430	2730	10	7520	22	6	170	2	40	32	5	3	1	29	2.5	98	6	1	6	128	18	
11591	.6	8660	28	3	76	2.0	3	630	.1	1	6	7930	2540	7	6630	18	5	80	1	30	29	4	3	1	26	1.9	113	4	1	5	110	5	
11592	.7	10980	50	4	121	3.4	3	480	.1	1	6	7740	4080	8	6480	19	4	40	1	30	26	4	3	3	33	1.5	115	5	1	3	63	2	
11593	.7	11460	31	4	126	3.3	3	1790	.1	2	8	8630	4710	7	6450	29	2	80	1	40	24	4	6	3	37	1.9	117	5	1	4	74	1	
11594	.6	7220	42	3	73	1.5	3	3230	.1	2	7	10220	2440	7	8830	43	9	150	2	70	31	6	8	1	17	2.7	103	5	1	6	143	2	
11595	.4	5650	38	3	74	1.6	3	2920	.1	2	7	9460	2210	4	9200	24	3	120	1	70	27	7	9	1	13	2.5	105	4	1	3	71	4	
11596	.3	11190	59	3	70	1.6	3	1570	.1	3	7	13580	2160	12	12900	27	8	100	1	150	26	10	5	1	16	4.7	93	6	1	5	104	1	
11597	.4	11940	64	3	119	1.9	3	1570	.1	3	7	11740	2930	11	11660	26	3	130	1	100	27	9	5	1	20	3.5	111	6	1	4	88	3	
11598	.4	10570	60	3	93	1.9	2	1580	.1	2	7	10210	2490	11	10510	24	7	110	1	80	32	8	4	1	18	3.4	115	6	1	5	108	2	
11599	.8	20050	31	4	103	2.5	3	12310	.1	2	6	10920	3050	40	34710	42	4	80	1	40	20	4	32	1	21	4.0	102	3	1	2	61	3	
11600	.5	18760	61	4	99	2.2	3	5470	.1	2	6	11600	2490	34	26470	24	9	100	1	40	26	7	12	1	19	3.4	99	6	1	5	109	1	
11601	.4	20910	109	3	148	2.5	3	1840	.1	2	6	11530	3200	33	26320	25	4	80	1	40	25	6	6	1	27	2.9	120	5	1	4	84	2	
11602	.5	16390	172	4	154	2.5	3	3130	.1	2	6	12180	3710	20	17590	29	8	100	1	50	30	12	7	3	31	2.4	130	7	1	4	78	4	
11603	.6	15220	101	4	145	2.5	3	6680	.1	2	6	9880	3850	18	16940	61	5	130	1	40	30	8	18	3	34	2.7	121	7	1	4	76	2	
11604	.5	19920	86	4	158	3.0	3	5380	.1	2	6	11460	4270	27	23260	53	9	140	1	30	25	6	14	1	34								

COPELAND REBAGLIATI & ASSOCIATES LTD.

AMERICAN FIBRE CORPORATION/SILVER BUTTE RESOURCES LTD. 91-83  
 SIB PROPERTY DIAMOND DRILL LOG

NTS MAP # : 104B/9 CLAIM # : SIB 12, 35  
 LOCAL GRID : 8773.25 N / 9870.62 E GLOBAL GRID : 13096.81 N / 17857.40 E  
 LENGTH : 82.30 m INCLINATION : -48.5 degrees ELEVATION : 1048.63 metres  
 OVERBURDEN : 4.60 m CASING : 4.60 metres AZIMUTH : 211.0 degrees  
 LOGGED BY : Paul Lawnikanis DRILLED BY : J.T. Thomas ASSAYING BY : Min-En Labs  
 DATE LOGGED : 1991/07/30 DATE DRILLED : 1991/07/29 CORE LOCATION: 86+30 N, 96+70 E  
 Y/M/D Y/M/D SAMPLE NO. SERIES : 11580-11620

SUMMARY LOG

91-83

From(m)	To(m)	Field Name (Legend)
0.00	4.60	CASING
4.60	28.00	GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA -SERICITE (3.4a)
28.00	45.50	RHYOLITE FLOW (AUTOBRECCIATED) +/- SERICITE (3.8 +/- a)
45.50	52.50	TUFFACEOUS RHYOLITE (3.9)
52.50	82.30	GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4) /- RHYODACITIC FRAGMENTAL (3.0)
82.30		END OF HOLE.

ANALYTICAL HIGHLIGHTS

91-83

From(m)	To(m)	Length(m)	Oz Au/ton	Oz Ag/ton	% Pb	% Zn
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No significant results.

From(m)	To(m)	-----Description-----
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0.00	4.60	CASING
4.60	28.00	GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA -SERICITE (3.4a)

## Lithology &lt;4.6&gt;-&lt;11.6&gt;

- Patchy, mottled surface, colour variations related to original sericite alteration and final hematitic surface weathering.
- Exact textural / morphological relationship of ash / crystals and lesser fragments uncertain.

## Structure

- Surface fracturing common, hematitic staining throughout. Bedding and or foliations not discernable.

## Alteration

- Patchy but moderate to strong sericite alteration, this obscures the rock over 60% of the interval.

## Mineralization

- Unmineralized.

28.00	45.50	RHYOLITE FLOW (AUTOBRECCIATED) +/- SERICITE (3.8 +/- a)
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## Lithology &lt;11.6&gt;-&lt;42.7&gt;

- Fresh surface, greyish green to medium grey, isolated rusty areas (hematitic staining) and sericitized zones,
- Primarily a crystal matrix silica dominates, but with lesser feldspar and rock fragments.
- The matrix is fine to medium grained i.e. 1 - 2mm size of grains common, and is consistent in its granularity. The fragments / clasts rest or are suspended in this granular type matrix. The matrix constitutes 60 - 80% of the visible rock. From 11.6 - 31.5 metres the matrix is coarser grained 2 - 3 mm(common).
- The framework varies from 40 - 20% clasts, and averages 40% from 11.6 - 31.5 metres. Clasts are within the lapilli size range, and rare clasts exceed this limit. Clasts are made of sericitized volcanics, quartz fragments, glass, black chert, and larger crystals. Most fragments are sub-angular. Sericitized volcanic clasts outnumber the other clasts by a 3:1 ratio.
- Actual sedimentary or depositional textures are not common, except laminations or bedding. The unit appears to coarsen up gradually from 31.5 to 20.0 metres.

## Structure

- Bedding is common; and the following azimuth, dip correction measurements were taken: 13.0m: 40 degrees NE, 18.0m: 43 degrees NE, 32.0m: 43 degrees NE, 39.0m: 40 and 90 degrees E, 41.0m: 28 and 80 degrees ENE.



From(m) To(m) -----Description-----

-Shear zone is present from 41.5 - 42.7 metres. The shear zone contact is at 70 degrees NE. Vein within the shear zones are at high angle 70 - 80 degrees and favor the NE direction. The lower contact of the shear zone at 42.7 metres is marked by a 60 degrees NE plane in contrast with a sheared NE plane (50, 55 degrees NE).  
 -Isolated fracture zones are common from 11.6 - 31.5m and follow no preferred orientation.

Alteration

-Moderate sericite alteration from 14.8 - 18.6 metres. Overprints most textures.  
 -Moderate but more patchy sericite alteration from 27.7 - 32.0 metres.  
 -Silicification very weak to weak, unit is probably hard.  
 -Numerous hematitic fractures to 31.5 metres. Staining of core common.  
 -Bull quartz or flooded quartz zone @ 32.1m -5cm zone at 90 degrees to c/a, barren, 32.4m -15cm zone at 87 degrees to c/a. This may be chert or flow beds.  
 -Vein at 41.8m (in the shear zone): 80 degrees NE to c/a.  
 -Vein at 42.1m (in the shear zone): 75 degrees N,NW to c/a.  
 -Vein at 42.3m (in the shear zone): 80 degrees NE to c/a.  
 Note: Core not rotated 75 degrees to the East in this case.  
 -Vein material present at lower contact, but is not continuous.

Mineralization

-Clastic or detrital pyrite as ejecta; trace, isolated pyrite rich fragments.  
 -No epigenetic mineralization found.

45.50 52.50 TUFFACEOUS RHYOLITE (3.9)  
 52.50 82.30 GREEN-BLACK RHYOLITIC FRAGMENTAL AND CHERT BRECCIA (3.4) /- RHYODACITIC FRAGMENTAL (3.0)

Lithology <42.7>-<82.3>

-Light greenish grey, fairly uniform colour, siliceous, hard to very hard, colour / alteration marks the textures partially.  
 -Primarily a lower fragment percentage pyroclastic, except below 64.5 metres, where the % fragments is between 25 and 40%. From 42.7 - 64.5 metres fragments make up <15% of the rock. Fragment type appear to be siliceous and rock fragments with rarer black chert, glass shard, and silicified mudstone clasts.  
 -Matrix is generally aphanitic in texture, but may have originally been fine grained. It is siliceous, hard, green. In tuff / ash rich sections the clasts are suspended in the aphanitic matrix.  
 -It is not discernable that there is a compositional change toward the end of the drilled section.

From(m)      To(m)      -----Description-----

Structure

- Shear zone (continued from above 42.7 metres) from 42.7 - 45.72 metres. Zone width is from 41.5 - 45.72 metres. Foliations change in the zone, and the clasts, matrix in the rock is rotated (transposed foliations). Measurements not reliable. Lower shear zone contact is vague @ 20 degrees to c/a.
- Bedding measurements as follows: 43.1m: 28 degrees S-SW; 54.0m: 35 degrees, 80 degrees NE trend, 57.5m: 35 degrees, trend at 115 degrees (SE), 71.0m: 40 - 90 degrees E trend, 77.0m: 25degrees, 135 degrees SE.
- Bedding is poorly developed, because there are not well form tuffaceous beds.
- Fracturing / silica flooding at 52.85, 54.8, 56.3, 56.4 - 56.8 metres.

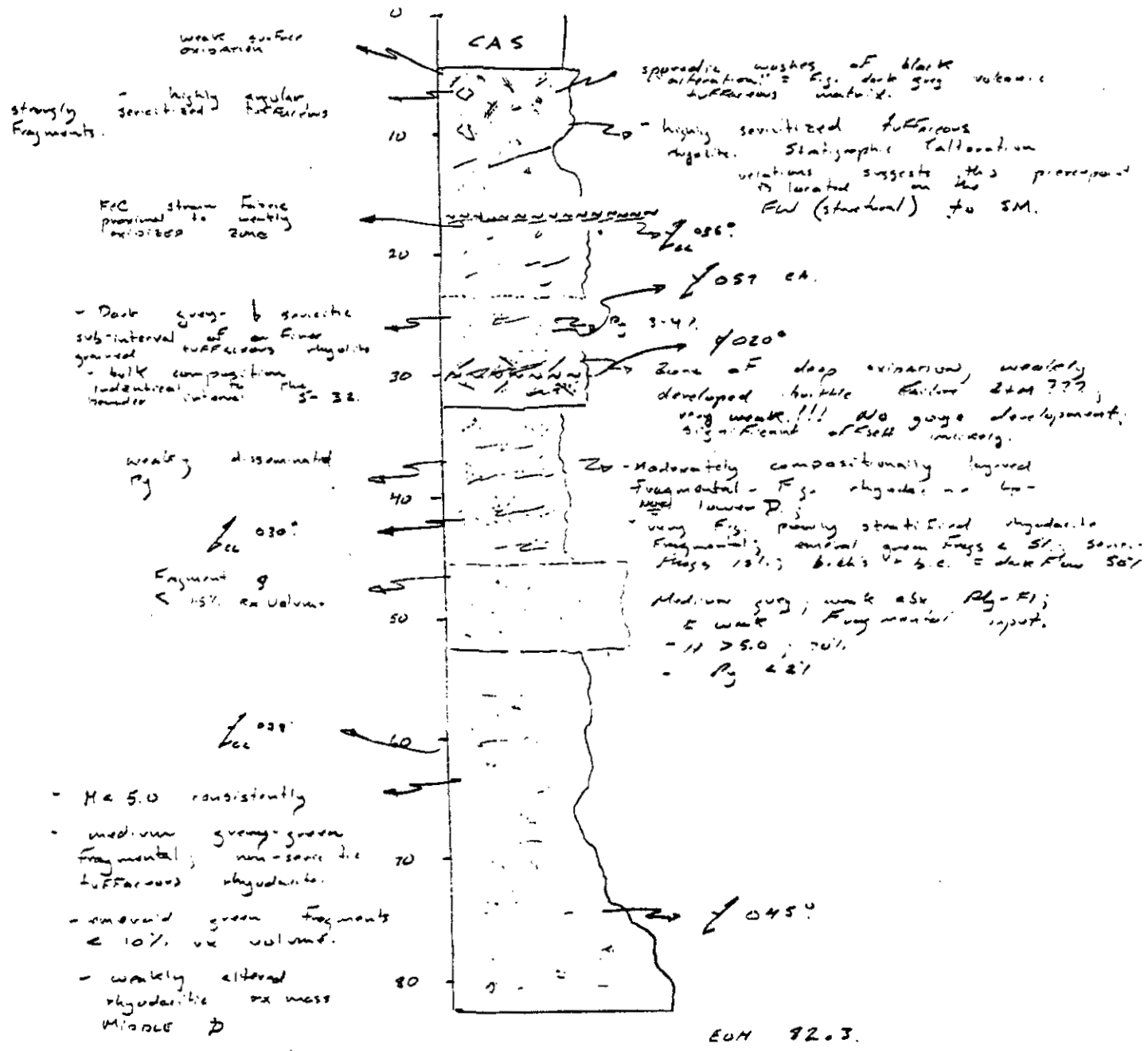
Alteration

- Weak to moderate (uniform) sericite alteration, -rock is greenish.
- Weak to moderate? silica overprint.
- Veining is rare. Unusual type of crosscutting quartz? alterations at 52.85, 54.8, 56.3 and 56.4 - 56.8 metres. Trace pyrite; pyrite in some cases is framboidal, oblique angles of crosscutting. Textures are unusual also, colliform, rosettes? Other replacements.

Mineralization

- Trace syngenetic and epigenetic pyrite, no other sulphides found.

82.30      END OF HOLE.



(5000) (5500) 5335

## AMERICAN FIBRE CORPORATION / SILVER BUTTE RESOURCES LTD.

## - SIB PROJECT - DRILL HOLE ANALYTICAL RESULTS

HOLE NUMBER	SAMPLE NUMBER	FROM (m)	TO (m)	LENGTH (m)	Au g/t	Au oz/t	Au ppb	Ag g/t	Ag oz/t	Ag ppm	As ppm	Sb ppm	Ba ppm	Hg ppb	Cu ppm	Pb ppm	Zn ppm	Fe ppm	Ca ppb
91-83	11580	4.57	6.00	1.43	-	-	8	-	-	0.7	45	5	84	-	7	29	85	10140	140
91-83	11581	6.00	8.00	2.00	-	-	2	-	-	1.0	33	3	100	-	6	26	67	7450	190
91-83	11582	8.00	10.00	2.00	-	-	11	-	-	1.2	39	4	106	-	6	22	95	7660	260
91-83	11583	10.00	11.60	1.60	-	-	3	-	-	0.9	38	4	106	-	5	34	103	6060	250
91-83	11584	11.60	14.00	2.40	-	-	4	-	-	0.8	49	5	110	-	7	30	141	10720	470
91-83	11585	14.00	16.00	2.00	-	-	2	-	-	0.6	35	4	110	-	6	32	116	7290	390
91-83	11586	16.00	18.00	2.00	-	-	1	-	-	0.6	27	4	155	-	6	25	117	5710	220
91-83	11587	18.00	20.00	2.00	-	-	16	-	-	0.3	24	3	62	-	6	23	73	8760	390
91-83	11588	20.00	22.00	2.00	-	-	7	-	-	0.5	25	4	73	-	6	22	98	9190	400
91-83	11589	22.00	24.00	2.00	-	-	4	-	-	0.6	31	5	58	-	6	22	81	10090	920
91-83	11590	24.00	26.00	2.00	-	-	18	-	-	0.8	29	5	86	-	7	32	98	9430	230
91-83	11591	26.00	28.00	2.00	-	-	5	-	-	0.6	28	4	76	-	6	29	113	7930	630
91-83	11592	28.00	30.00	2.00	-	-	2	-	-	0.7	50	4	121	-	6	26	115	7740	480
91-83	11593	30.00	32.00	2.00	-	-	1	-	-	0.7	31	4	126	-	8	24	117	8630	1790
91-83	11594	32.00	34.00	2.00	-	-	2	-	-	0.6	42	6	73	-	7	31	103	10220	3230
91-83	11595	34.00	36.00	2.00	-	-	4	-	-	0.4	38	7	74	-	7	27	105	9460	2920
91-83	11596	36.00	38.00	2.00	-	-	1	-	-	0.3	59	10	70	-	7	26	93	13580	1570
91-83	11597	38.00	39.60	1.60	-	-	3	-	-	0.4	64	9	119	-	7	27	111	11740	1570
91-83	11598	39.60	41.50	1.90	-	-	2	-	-	0.4	60	8	93	-	7	32	115	10210	1580
91-83	11599	41.50	42.70	1.20	-	-	3	-	-	0.8	31	4	103	-	6	20	102	10920	12310
91-83	11600	42.70	44.00	1.30	-	-	1	-	-	0.5	61	7	99	-	6	26	99	11600	5470
91-83	11601	44.00	45.70	1.70	-	-	2	-	-	0.4	109	6	148	-	6	25	120	11530	1840
91-83	11602	45.70	48.00	2.30	-	-	4	-	-	0.5	172	12	154	-	6	30	130	12180	3130
91-83	11603	48.00	50.00	2.00	-	-	2	-	-	0.6	101	8	145	-	6	30	121	9880	6680
91-83	11604	50.00	52.00	2.00	-	-	5	-	-	0.5	86	6	158	-	6	25	115	11460	5380
91-83	11605	52.00	53.50	1.50	-	-	1	-	-	0.6	121	11	141	-	6	31	124	12900	8910
91-83	11606	53.50	55.00	1.50	-	-	2	-	-	0.9	56	6	161	-	6	27	117	9820	23970
91-83	11607	55.00	56.30	1.30	-	-	2	-	-	1.2	78	8	174	-	6	26	92	12560	58410
91-83	11608	56.30	57.00	0.70	-	-	1	-	-	0.8	71	7	139	-	7	25	93	12250	56780
91-83	11609	57.00	59.00	2.00	-	-	2	-	-	0.5	36	5	112	-	7	35	144	10330	3520
91-83	11610	59.00	61.00	2.00	-	-	3	-	-	0.5	24	3	555	-	6	29	101	11000	4880
91-83	11611	61.00	63.00	2.00	-	-	2	-	-	0.3	16	2	191	-	9	25	104	9340	1820
91-83	11612	63.00	65.00	2.00	-	-	1	-	-	0.3	14	2	138	-	5	22	96	10440	990
91-83	11613	65.00	67.00	2.00	-	-	1	-	-	0.4	27	4	158	-	7	29	120	9570	780
91-83	11614	67.00	69.00	2.00	-	-	2	-	-	0.5	21	4	174	-	7	27	148	9360	1140
91-83	11615	69.00	71.00	2.00	-	-	1	-	-	0.4	33	5	135	-	7	32	142	10550	670
91-83	11616	71.00	73.00	2.00	-	-	4	-	-	0.4	25	4	135	-	6	28	150	10860	760
91-83	11617	73.00	75.00	2.00	-	-	2	-	-	0.4	32	4	157	-	7	29	126	10530	1440
91-83	11618	75.00	77.00	2.00	-	-	2	-	-	0.4	29	4	228	-	7	28	156	6900	690
91-83	11619	77.00	79.00	2.00	-	-	1	-	-	0.5	32	5	172	-	6	27	107	9510	760
91-83	11620	79.00	82.30	3.30	-	-	2	-	-	0.5	30	4	171	-	6	32	136	9910	420

COMP: COPELAND, REBAGLIATI & ASSOC.

PROJ: 9101

ATTN: M.REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ55+56

DATE: 91/10/17

\* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB	HG PPB
11556	1.1	3140	21	3	32	1.5	1	8370	.1	1	5	8160	1700	1	3100	149	7	270	1	20	23	21	16	1	18	1.6	125	2	1	5	128	1	
11557	1.1	3360	19	4	32	1.4	2	11990	.1	1	5	9100	1640	1	4190	161	21	250	1	720	28	79	22	1	18	1.8	137	3	1	3	76	5	
11558	1.1	4790	28	6	46	2.0	1	14410	.1	1	8	10960	2570	1	5310	225	11	310	1	70	22	32	20	2	17	2.0	115	3	1	5	125	2	
11559	1.0	2870	12	6	26	1.3	1	13990	.1	1	5	8200	1720	1	5250	271	2	290	1	50	18	214	18	1	10	1.7	98	2	1	3	76	4	
11560	.9	1580	16	3	32	1.0	1	9900	1.2	1	10	6500	1100	1	3260	276	5	200	3	30	36	13709	8	1	6	1.4	172	2	1	3	86	2	
11561	1.1	3790	15	5	36	1.9	1	13030	.1	1	6	8100	2230	1	5080	235	2	40	1	40	37	263	18	1	21	2.1	86	3	1	3	61	1	
11562	1.2	3920	33	5	37	1.9	2	11360	.1	1	5	10280	2260	1	4270	142	5	100	1	10	21	84	17	2	20	1.6	106	3	1	3	83	1	
11563	1.0	4040	16	4	36	1.8	1	8450	.1	1	5	8800	2220	1	3720	126	2	270	1	10	20	27	17	2	24	1.5	86	2	1	4	89	2	
11564	1.3	6850	18	3	45	2.5	2	16470	.1	2	5	13670	2520	6	6660	388	2	230	1	40	21	12	18	2	28	2.2	101	4	1	4	87	1	
11565	1.2	5510	21	3	44	2.5	1	12530	.1	1	5	10810	2500	3	6710	263	7	210	1	40	25	12	23	2	23	2.0	125	4	1	5	114	5	
11566	1.2	6170	15	3	58	2.9	1	10980	.1	1	5	10790	2980	2	7500	181	3	210	1	20	24	9	24	3	21	1.8	118	4	1	4	83	1	
11567	1.0	8010	34	3	48	2.6	1	9810	.1	1	5	10330	2730	7	8830	167	7	160	1	40	25	8	19	2	18	1.8	139	4	1	4	82	2	
11568	1.1	13600	17	4	62	3.8	2	6470	.1	2	6	11800	4390	14	12940	131	2	150	1	10	26	9	11	4	29	2.7	154	6	1	4	82	4	
11569	1.0	11010	21	3	66	2.4	2	6380	.1	1	6	10770	2960	12	12280	127	6	190	1	20	25	6	9	2	24	2.5	138	5	1	5	115	1	
11570	.9	10220	13	2	47	2.4	1	3380	.1	1	5	9360	3090	11	11040	89	2	250	1	20	25	4	6	2	25	1.9	122	5	1	4	92	6	
11571	.9	5310	18	1	32	1.9	2	7650	.1	1	5	7750	1750	6	9100	162	7	160	1	10	20	4	13	1	13	2.1	117	4	1	5	118	1	
11572	1.0	11060	13	3	45	3.2	3	4800	.1	1	6	11050	2610	19	16930	96	1	100	1	10	29	1	11	2	20	2.4	130	5	1	3	79	2	
11573	1.2	5180	18	2	39	2.3	2	11130	.1	1	5	7990	2190	4	11780	73	6	90	1	20	20	3	68	2	12	2.3	109	4	1	4	87	1	
11574	1.1	12940	21	3	51	2.8	2	3260	.1	1	6	9780	3120	17	15360	70	4	110	1	40	24	2	11	3	25	2.1	100	5	1	4	91	1	
11575	1.0	13920	13	1	35	3.0	2	5170	.1	1	6	9630	2640	20	16570	83	5	130	1	40	25	2	11	4	24	2.1	106	5	1	3	72	2	
11576	1.2	10210	21	1	30	2.6	1	7660	.1	1	5	9410	2390	13	16440	87	12	90	1	40	23	4	22	3	20	2.3	143	5	1	4	79	1	
11577	.9	10950	13	1	30	2.3	2	1290	.1	1	5	9290	1650	17	17290	64	4	90	1	30	25	3	6	1	11	2.0	113	5	1	3	67	1	
11578	.8	10390	15	1	27	2.7	1	340	.1	1	5	8800	1710	17	15170	53	8	70	1	30	25	2	4	1	10	1.7	119	5	1	3	74	3	
11579	.8	12740	17	1	28	2.5	2	440	.1	1	6	9050	1660	20	15930	53	5	100	1	30	25	3	4	1	13	2.0	124	6	1	4	79	2	
11580	.7	11910	45	10	84	1.1	2	140	.1	2	7	10140	2230	13	12060	20	5	60	2	30	29	5	2	1	21	3.1	85	5	1	5	98	8	
11581	1.0	9080	33	7	100	1.1	2	190	.1	1	6	7450	2510	8	6960	15	4	50	1	30	26	3	2	1	19	1.8	67	4	1	4	83	2	
11582	1.2	9110	39	6	106	1.8	2	260	.1	1	6	7660	2910	7	6100	22	5	100	1	20	22	4	3	1	28	1.9	95	4	1	5	125	11	
11583	.9	7200	38	6	106	2.3	1	250	.1	1	5	6060	2820	5	3980	20	3	80	2	30	34	4	3	1	22	1.1	103	3	1	4	88	3	
11584	.8	8570	49	7	110	1.9	2	470	.1	2	7	10720	3140	9	9140	29	6	120	2	30	30	5	4	1	20	2.4	141	5	1	5	116	4	
11585	.6	10040	35	5	110	2.5	2	390	.1	1	6	7290	3870	7	7820	20	4	80	1	20	32	4	3	2	28	1.9	116	5	1	5	100	2	
11586	.6	9480	27	4	155	2.4	2	220	.1	1	6	5710	3800	5	4870	16	4	50	1	20	25	4	3	2	28	1.5	117	5	1	4	80	1	
11587	.3	10170	24	4	62	1.3	3	390	.1	2	6	8760	2220	9	10340	20	5	80	1	40	23	3	3	1	23	2.6	73	5	1	5	112	16	
11588	.5	10260	25	4	73	1.6	2	400	.1	2	6	9190	2550	9	9500	23	6	100	2	40	22	4	3	1	24	2.7	98	6	1	6	123	7	
11589	.6	8130	31	4	58	1.4	2	920	.1	2	6	10090	1960	9	9280	21	5	120	1	40	22	5	4	1	20	2.5	81	6	1	5	106	4	
11590	.8	9590	29	5	86	1.8	3	230	.1	2	7	9430	2730	10	7520	22	6	170	2	40	32	5	3	1	29	2.5	98	6	1	6	128	18	
11591	.6	8660	28	3	76	2.0	3	630	.1	1	6	7930	2540	7	6630	18	5	80	1	30	29	4	3	1	26	1.9	113	4	1	5	110	5	
11592	.7	10980	50	4	121	3.4	3	480	.1	1	6	7740	4080	8	6480	19	4	40	1	30	26	4	3	3	33	1.5	115	5	1	3	63	2	
11593	.7	11460	31	4	126	3.3	3	1790	.1	2	8	8630	4710	7	6450	29	2	80	1	40	24	4	6	3	37	1.9	117	5	1	4	74	1	
11594	.6	7220	42	3	73	1.5	3	3230	.1	2	7	10220	2440	7	8830	43	9	150	2	70	31	6	8	1	17	2.7	103	5	1	6	143	2	
11595	.4	5650	38	3	74	1.6	3	2920	.1	2	7	9460	2210	4	9200	24	3	120	1	70	27	7	9	1	13	2.5	105	4	1	3	71	4	
11596	.3	11190	59	3	70	1.6	3	1570	.1	3	7	13580	2160	12	12900	27	8	100	1	150	26	10	5	1	16	4.7	93	6	1	5	104	1	
11597	.4	11940	64	3	119	1.9	3	1570	.1	3	7	11740	2930	11	11660	26	3	130	1	100	27	9	5	1	20	3.5	111	6	1	4	88	3	
11598	.4	10570	60	3	93	1.9	2	1580	.1	2	7	10210	2490	11	10510	24	7	110	1	80	32	8	4	1	18	3.4	115	6	1	5	108	2	
11599	.8	20050	31	4	103	2.5	3	12310	.1	2	6	10920	3050	40	34710	42	4	80	1	40	20	4	32	1	21	4.0	102	3	1	2	61	3	
11600	.5	18760	61	4	99	2.2	3	5470	.1	2	6	11600	2490	34	26470	24	9	100	1	40	26	7	12	1	19	3.4	99	6	1	5	109	1	
11601	.4	20910	109	3	148	2.5	3	1840	.1	2	6	11530	3200	33	26320	25	4	80	1	40	25	6	6	1	27	2.9	120	5	1	4	84	2	
11602	.5	16390	172	4	154	2.5	3	3130	.1	2	6	12180	3710	20	17590	29	8	100	1	50	30	12	7	3	31	2.4	130	7	1	4	78	4	
11603	.6	15220	101	4	145	2.5	3	6680	.1	2	6	9880	3850	18	16940	61	5	130	1	40	30	8	18	3	34	2.7	121	7	1	4	76	2	
11604	.5	19920	86	4	158	3.0	3																										

COMP: COPELAND, REBAGLIATI & ASSOC.  
 PROJ: 9101  
 ATTN: M. REBAGLIATI

**MIN-EN LABS — ICP REPORT**  
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2  
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-9000-RJ57+58  
 DATE: 91/10/17  
 \* ROCK \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPM	HG PPB
11612	.3	20860	14	7	138	3.6	2	990	.1	2	5	10440	3010	28	27500	36	7	90	1	20	22	2	6	1	23	3.1	96	6	1	5	118	1	
11613	.4	18630	27	6	158	4.2	2	780	.1	2	7	9570	3890	21	19400	32	8	110	1	20	29	4	5	3	26	2.6	120	7	1	5	121	1	
11614	.5	18540	21	5	174	5.1	3	1140	.1	2	7	9360	4030	20	18690	38	9	110	1	30	27	4	6	3	27	2.5	148	7	2	6	133	2	
11615	.4	18340	33	4	135	4.4	2	670	.1	2	7	10550	3520	21	19180	31	4	110	1	30	32	5	5	3	24	2.2	142	7	2	4	89	1	
11616	.4	19350	25	4	135	4.7	3	760	.1	2	6	10860	3550	24	21300	39	8	100	1	10	28	4	6	2	24	2.6	150	6	1	4	108	4	
11617	.4	20220	32	5	157	4.4	3	1440	.1	2	7	10530	4020	24	21250	32	6	120	1	30	29	4	6	3	30	2.5	126	7	2	4	86	2	
11618	.4	17540	29	4	228	5.4	2	690	.1	1	7	6900	5480	13	11780	25	9	120	1	30	28	4	5	4	27	1.8	156	7	1	5	114	2	
11619	.5	21370	32	4	172	4.3	3	760	.1	2	6	9510	4850	22	19830	27	8	120	1	30	27	5	5	3	34	2.5	107	7	2	5	95	1	
11620	.5	21520	30	4	171	4.2	2	420	.1	2	6	9910	4480	24	21170	24	14	100	1	20	32	4	4	3	33	2.5	136	7	1	4	87	2	
11621	.5	4500	24	15	27	.6	3	460	.1	1	6	7010	460	7	2940	49	4	670	3	20	19	3	3	1	36	2.4	57	4	1	6	135	21	
11622	.5	7850	32	13	29	.9	3	730	.1	2	6	11770	550	13	6990	99	12	600	1	10	25	2	3	1	38	2.2	68	7	1	7	168	36	
11623	.7	6900	30	8	58	1.2	3	900	.1	1	6	8840	1170	7	4830	101	5	380	1	10	26	3	2	1	42	1.7	67	6	1	6	139	20	
11624	.5	11850	25	10	77	1.6	4	1690	.1	2	6	14180	1530	15	9750	190	11	520	1	10	27	1	3	3	56	2.2	108	8	1	7	161	21	
11625	.8	10050	30	7	87	2.1	4	890	.1	2	6	10760	1840	10	7420	100	4	380	1	20	24	2	3	2	43	1.8	98	8	1	5	117	7	
11626	.7	10180	30	6	83	1.8	4	610	.1	2	6	10960	1780	10	7590	97	10	460	1	20	24	1	3	1	41	1.9	100	7	1	7	150	3	
11627	.5	11190	55	7	183	3.1	3	610	.1	2	7	18600	2890	9	6520	86	5	360	1	20	28	5	4	1	40	1.6	140	7	1	5	103	20	
11628	.7	10560	31	6	66	1.9	3	300	.1	2	6	12430	1490	12	8840	115	11	480	1	10	28	3	3	1	39	2.0	131	8	1	6	147	1	
11629	.6	10340	28	6	114	2.2	3	420	.1	2	6	11270	1960	11	7470	104	2	400	1	10	25	1	3	1	38	1.8	106	7	1	6	133	3	
11630	.7	10640	25	5	102	2.0	3	1120	.1	2	6	9930	2210	10	7030	97	8	1590	1	10	27	1	4	1	36	1.9	82	7	1	5	125	18	
11631	.5	10900	28	5	96	2.1	2	660	.1	2	6	11550	2110	12	7380	121	1	440	1	10	21	1	3	1	35	1.7	78	6	1	6	153	17	
11632	.8	13050	28	4	119	2.8	3	290	.1	2	6	15000	2430	13	9770	147	8	360	1	10	26	1	3	2	31	2.2	145	9	1	5	121	17	
11633	.4	12120	19	6	131	2.7	3	220	.1	2	7	12970	2780	15	8020	136	1	390	1	10	34	1	3	2	39	1.5	117	7	1	5	117	30	
11634	.6	7070	22	6	21	.5	4	60	.1	2	6	10910	360	11	6310	116	4	600	1	10	25	1	2	2	32	1.5	98	7	1	4	106	10	
11635	.7	3760	28	5	18	.1	3	80	.1	1	5	6240	240	5	2670	54	1	800	4	20	24	2	2	1	30	1.3	84	5	1	6	154	3	
11636	.6	4400	26	4	9	.2	2	80	.1	1	6	8080	120	6	4000	69	4	590	1	10	23	2	2	1	24	1.3	90	5	1	5	120	3	
11637	.7	12770	24	5	99	2.0	3	250	.1	2	6	12530	2380	14	9650	124	2	370	1	10	27	1	3	1	36	1.9	133	9	2	6	132	1	
11638	.8	12800	24	5	75	1.8	4	220	.1	2	6	13820	1850	16	11130	128	3	370	1	10	28	2	2	2	37	2.0	178	9	1	4	91	10	
11639	.7	12940	22	3	70	1.4	3	470	.1	2	6	13950	1630	16	11720	135	1	1840	1	10	33	1	3	1	35	2.3	120	9	1	6	133	3	
11640	.7	6730	24	3	11	.3	3	2080	.1	2	6	10220	180	11	7990	111	4	1590	1	20	28	1	5	1	23	2.3	125	6	1	5	130	12	
11641	.6	9090	26	5	74	1.3	3	970	.1	2	6	10440	1620	12	8330	98	2	510	2	20	28	1	4	1	30	2.0	99	7	1	6	147	7	
11642	.9	12000	31	5	165	3.6	2	4700	.1	2	8	11830	4120	9	7860	140	6	220	1	40	30	3	10	3	29	2.2	125	7	1	4	91	2	
11643	.8	15070	21	8	211	3.6	4	7410	.1	2	6	9490	5380	11	8230	165	9	190	1	30	28	1	16	2	42	2.3	112	7	1	4	97	12	
11644	.9	17560	27	10	238	3.8	4	8800	.1	2	7	13680	6200	15	11330	234	4	170	1	10	31	1	19	2	41	2.4	136	7	1	3	70	3	
11645	.5	5090	104	9	91	1.0	3	8960	.1	3	10	19020	2500	4	4770	243	24	1120	5	30	21	14	21	1	16	3.9	137	3	1	5	133	21	
11646	.4	8150	124	9	154	2.6	2	4320	.1	3	11	22030	4060	3	4450	121	33	1340	10	60	25	14	10	1	27	4.7	177	3	1	3	57	14	
11647	.5	8000	99	7	171	2.9	2	1990	.1	3	13	20210	3970	2	3200	73	39	1890	23	60	28	17	8	1	28	5.6	172	4	1	2	49	16	
11648	.4	5080	151	6	126	1.5	2	590	1.3	5	27	23700	2520	2	990	57	40	2000	68	70	33	28	3	1	36	18.4	287	2	1	3	79	23	
11649	.5	2740	159	6	67	.8	2	1340	.2	5	29	25110	1310	2	1340	70	36	1770	37	40	31	20	4	1	20	11.5	212	1	1	4	95	27	
11650	.6	4080	74	6	94	1.1	3	11130	.1	2	9	11700	2100	3	2350	239	22	90	11	20	18	10	26	1	15	3.5	143	2	1	5	127	26	
11651	3.0	3750	71	1	80	1.0	1	9420	.1	2	10	10150	2030	1	1700	201	23	100	9	10	878	14	22	1	19	3.1	114	2	1	4	108	1	
11652	3.4	3230	53	1	69	.8	1	16570	.1	2	9	8510	1710	1	1630	427	22	130	11	20	221	9	47	2	17	3.4	80	1	1	5	132	1	
11653	.7	5280	60	1	88	1.8	1	12930	.1	2	8	12630	2540	2	3180	279	28	60	8	20	482	10	34	2	21	4.3	123	2	1	3	82	3	
11654	.6	5110	47	1	91	1.8	1	3970	.1	2	9	12470	2180	4	3930	99	27	50	9	20	139	10	8	2	19	3.5	152	2	1	3	72	1	
11655	1.2	3640	77	7	74	.7	1	1480	14.5	8	60	20570	1370	1	1340	170	13	540	47	220	21	75	4	1	21	30.4	825	1	1	2	24	81	
11655	1.5	5050	75	4	100	.8	1	1450	15.4	8	65	21390	2010	3	1550	176	15	550	50	230	17	80	3	1	33	45.2	867	1	1	2	27	81	
11656	.5	3050	173	4	151	.4	1	1350	9.3	6	44	23770	1420	1	690	86	25	1140	61	100	24	95	5	1	25	21.5	676	1	1	3	59	72	
11656	.6	3920	172	3	175	.5	1	1300	9.1	6	44	23670	1850	1	780	85	26	600	57	100	17	96	5	1	32	28.6	676	1	1	3	60	72	
11657	.2	4110	208	1	100	.8	1	730	.9	4	17	23690	2120	1	870	31	51	700	93	30	26	91	3	4	21	8.5	346	1	1	2	42	38	
11657	.4	5240	215	2	123	.8	1	750	.5	4	20	24140	2770	1	1020	31	53	28															