

LOG NO: 11-01	RD.
ACTION:	
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NTS 104G/4, 5
 Lat. 57° 14' to
 57° 23' N
 Long. 131° 51' to
 131° 58' W

LOG NO: 0605	RD.
ACTION: Rtn. Back with Amendments	

ASSESSMENT REPORT

FILE NO:	ON THE COMMANDER I-VII CLAIMS
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M.R. # \$
 VANCOUVER, B.C.

LIARD MINING DIVISION, BRITISH COLUMBIA

SUB-RECORDER RECEIVED
MAY 31 1991
M.R. # \$ VANCOUVER, B.C.

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

SUB-RECORDER RECEIVED
JAN - 3 1991
M.R. # \$ VANCOUVER, B.C.

20,783

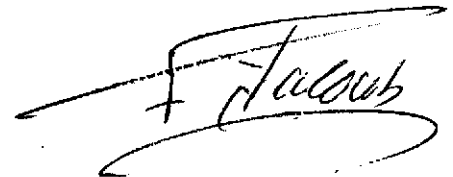
For

Goldbelt Mines Inc.
 #1200 - 885 West Georgia Street
 Vancouver, B.C.
 V6C 3E8

By

Fayz F. Yacoub, B.Sc., F.G.A.C.
 Todd Faragher, B.Sc.

Ashworth Explorations Limited
 #718 - 744 West Hastings Street
 Vancouver, B.C.
 V6C 1A5



November, 1990

SUMMARY

Ashworth Explorations Limited carried out a field program, consisting of prospecting, rock, soil and stream sediment sampling on the Commander I-VII Claims for Goldbelt Mines Inc. during August 1990. The Commander Claims consist of seven mineral claims (136 units) located in the Liard Mining Division. The claims are situated 180 kilometres northwest of Stewart, B.C.

The claims are situated within the Stikine Arch at the western boundary of the Intermontane and Coast tectonic belts. The area is host to several porphyry copper-gold-silver deposits and more recently has been determined to host mesothermal and shear-hosted precious metal vein deposits.

The Commander I-VII claims cover an area of Eocene biotite granite and granodiorite with a small stock of Middle Jurassic diorite on the Commander V claim.

Results from the 1990 field program delineated four areas of interest. Three areas of soil anomalies were found where Barium in soils returned values up to 418 ppm Ba. A fourth area of interest delineated a rock anomaly situated at the central part of the Commander III claim where one grab sample returned 1462 ppm Cu and one float sample returned over 1000 ppm Mo.

A Phase I program at an estimated cost of \$90,000 is recommended. The program would consist of geological mapping, prospecting, rock and soil sampling.

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1. INTRODUCTION

This report was prepared at the request of Goldbelt Mines Inc. to evaluate and describe the results of a reconnaissance geological-geochemical survey completed on the Commander I-VII claims. The fieldwork was carried out between August 16-18 and August 23, 1990 by one of the authors, Mr. Fayz Yacoub, and three assistants. The purpose of the project was to locate and evaluate precious metal mineralization similar to that found elsewhere in the region. This report describes the results of the exploration program and makes recommendations for further work.

2. LOCATION, ACCESS, AND TOPOGRAPHY (Figure 1)

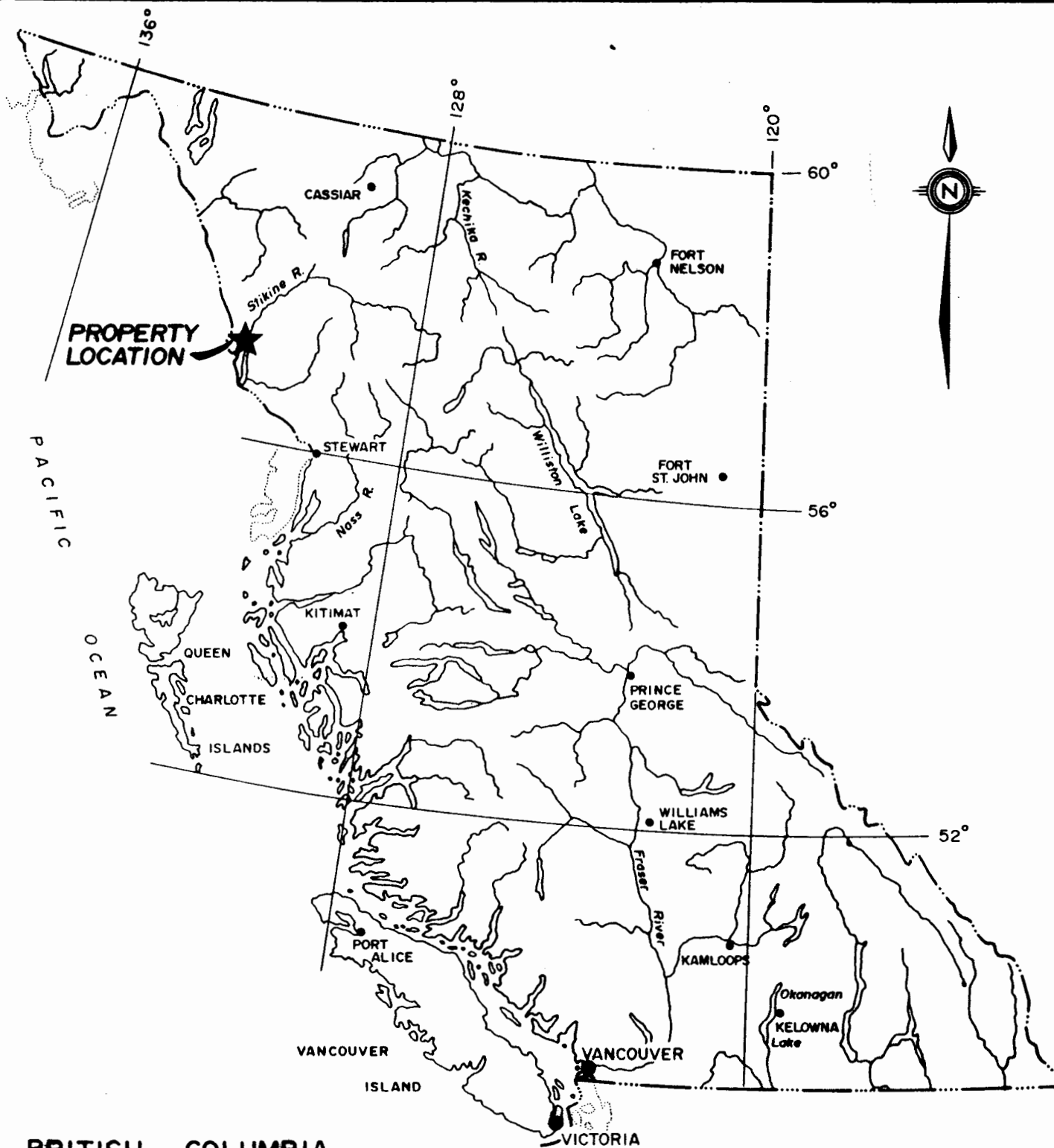
The Commander I-VII claims are located approximately 180 kilometres northwest of Stewart, B.C. and 35 kilometres northwest of the Galore Creek porphyry copper deposits (Figure 1).

The claims are located on the Liard Mining Division between latitude 57 14' - 57 23' and longitude 131 51' - 131 58' on NTS Mapsheets 104G/5 and 104G/4.

Access to the property was provided by helicopter from the Scud River airstrip which is located approximately 4 kilometres to the east.

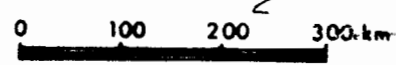
Fixed wing aircraft fly charters from Smithers, Dease Lake and Telegraph creek to the Scud River airstrip and scheduled flights from Smithers to the Scud River airstrip via the Bronson Creek airstrip during the field season. The field personnel were dropped off and picked up from the property on a daily basis by helicopter based in the Scud River airstrip.

Topography on the Commander claims varies from valley bottoms to mountain ridges with abrupt elevation changes over relatively short distances. The following table describes claim elevation changes:



BRITISH COLUMBIA

F. Jacob



GOLDBELT MINES INC.	
COMMANDER I-VII CLAIMS	
GALORE CREEK AREA	
LIARD MINING DIVISION	
GENERAL LOCATION MAP	
Scale 1:7500000	By: F.Y.
Date: Nov. 1980	Figure 1
Ashworth Explorations Limited	

<u>Claim</u>	<u>Elevation (feet above sea level)</u>	
	<u>From</u>	<u>To</u>
Commander I	500	5600
Commander II	500	3500
Commander III	500	2200
Commander IV	400	2600
Commander V	500	4600
Commander VI	500	4500
Commander VII	500	5300

Below treeline (3500 feet), which includes a large portion of the claims, vegetation consists of hemlock, spruce and balsam with a dense undergrowth of alder, devils club and blueberry. Above treeline, slopes are either barren rock or covered with alpine grasses.

3. CLAIM STATUS (Figure 2)

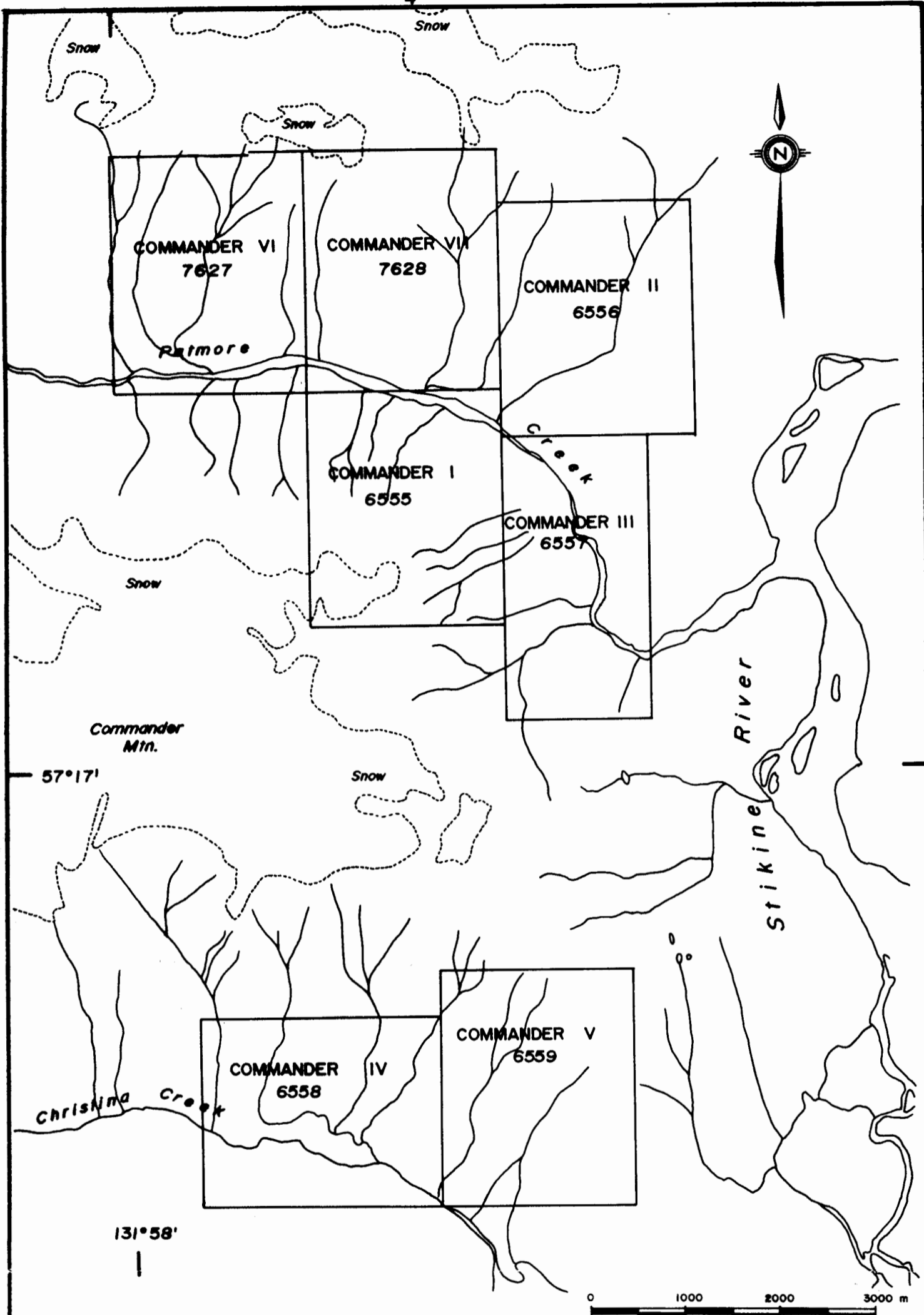
The Commander I-VII claims consist of seven mineral claims in the Liard Mining Division of British Columbia. The Commander I-V were staked in October of 1989 while Commander VI and VII were staked in July of 1990. The claims are owned by Goldbelt Mines Inc. of Vancouver, B.C.

Petinent claim data is as follows:

<u>Claim Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Record Date</u>	<u>Expiry Date</u>
Commander I	20	6555	Oct. 16/89	Oct. 16/90
Commander II	20	6556	Oct. 16/89	Oct. 16/90
Commander III	18	6557	Oct. 16/89	Oct. 16/90
Commander IV	20	6558	Oct. 16/89	Oct. 16/90
Commander V	20	6559	Oct. 16/89	Oct. 16/90
Commander VI	20	7627	July 25/90	July 25/91
Commander VII	20	7628	July 25/90	July 25/91

138 units

The total area covered by the Commander claims is approximately 3450 hectares.



NTS 104G/5,4

F. Daloub

GOLDBELT MINES INC.	
COMMANDER I-VII CLAIMS	
GALORE CREEK AREA	
LIARD MINING DIVISION	
CLAIM LOCATION MAP	
Scale: 1 : 50,000	By: F.Y.
Date: Nov. 1990	Figure: 2
Ashworth Explorptions Limited	

4. AREA HISTORY

The first recorded mineral exploration in the Telegraph Creek-Stikine River region was undertaken in 1861 when placer gold was discovered on the Stikine River just below Telegraph Creek. During the 1950's when emphasis had shifted from placer to lode deposits, companies such as the Hudson Bay Mining and Smelting Company and Kennco Explorations Limited carried out extensive exploration programs in search for porphyry copper deposits. As a result, the Galore Creek and Schaft Creek deposits were discovered.

The Galore Creek deposit is situated at the headwaters of Galore Creek where ten deposits occur in potassium altered Upper Triassic volcanic rocks and pipe-like breccias adjacent to syenite porphyry dykes and stocks. Principal copper minerals present are chalcopryite and bornite with lesser amounts of chalcocite, cuprite and native copper. The central zone which is centered on a steeply dipping breccia pipe has reserves estimated at 125 million tonnes grading 1.06% copper, 0.40 g/t gold and 7.7 g/t silver. During the summer of 1990 Mingold Resources operated a drill program to assess gold mineralization peripheral to the porphyry deposits. Results from this program have not been released yet.

5. PROPERTY HISTORY

There is no record of any previous work done in the area covered by the Commander I-VII claims.

6. REGIONAL GEOLOGY

The Commander I-VII claims lie within the Stikine Arch at the western boundary of the Intermontane and Coast tectonic belts.

The region is underlain by three major lithologic units: Paleozoic and Middle Triassic oceanic sediments; Upper Triassic island volcanics and sediments; and intrusive rock of varying ages and types. The oldest rocks are highly deformed Permian and older metamorphic rocks, Permian crystalline limestones and middle Triassic siltstone. This sequence is unconformably overlain by Upper Triassic volcanic and sedimentary rocks. Late Triassic rocks consist of augite andesite and basaltic andesite breccias, flows and tuffs interspersed with locally derived sandstones and siltstones. Intrusive rocks include Upper Triassic to Lower Jurassic syenitic stocks and dykes and Jurassic to Lower Cretaceous quartz diorite and granodiorite plutons of the Coast Plutonic Complex. A number of Eocene quartz monzonite and granodiorite stocks form small intrusions within or as satellites to the Coast Plutonic intrusives.

A recently updated geology map of the Galore Creek area (Logan et al, 1989) shows the Commander I-VII claims cover an area of Eocene biotite granite (Figure 3).

The Commander I claim covers an area of Eocene biotite granite and Quaternary glacial till and alluvium.

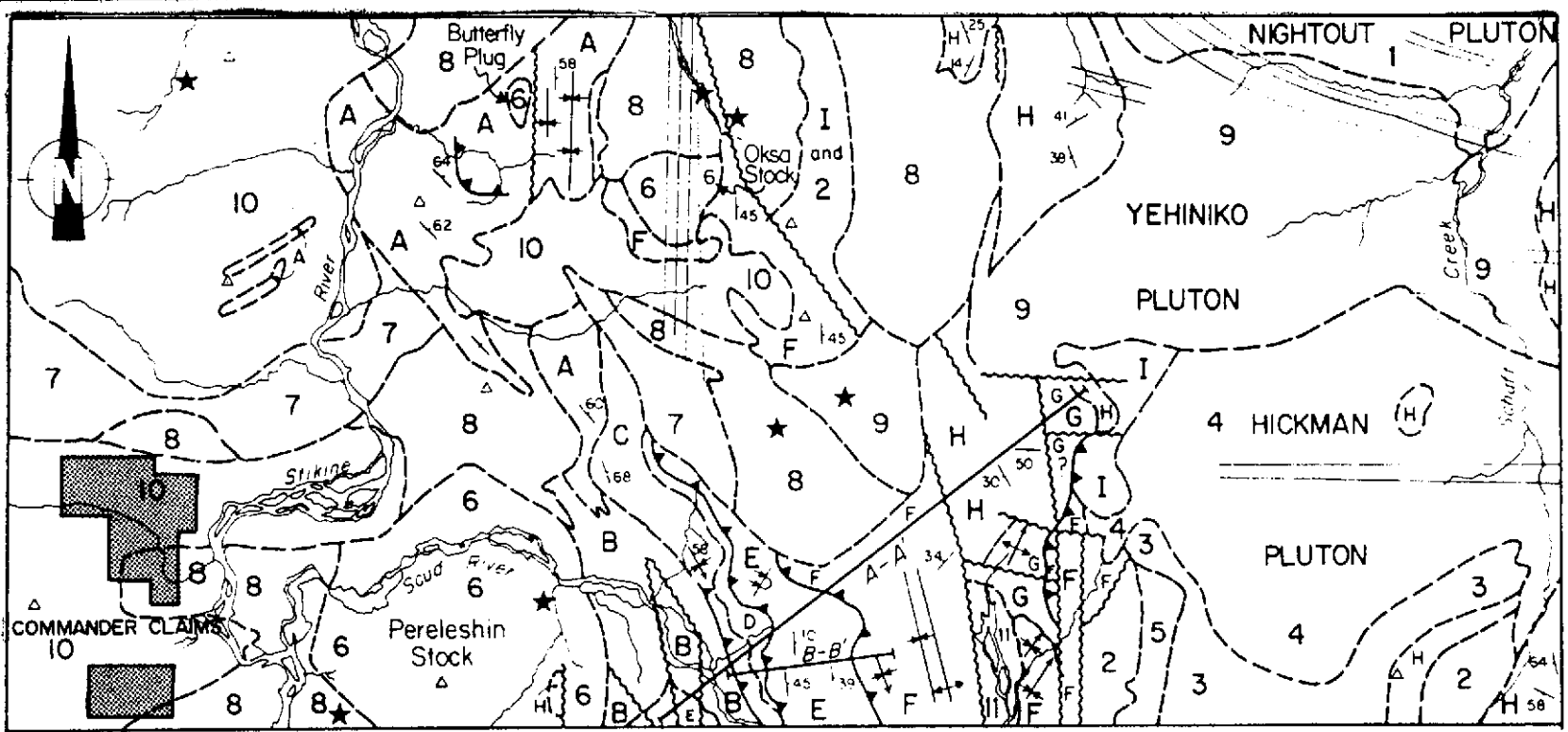
The Commander II claim also covers an area of biotite granite of Eocene age.

The Commander III claim has a circular central zone of Middle Jurassic diorite which is bounded by Eocene biotite granite.

Commander IV covers an area of Eocene biotite granite.

Commander V is located over a northeast-southwest trending geological contact between Eocene biotite granite and biotite granodiorite of similar age.

Both the Commander VI and VII cover an area of biotite granite of Eocene age.



STRATIFIED ROCKS

UNKNOWN AGE
 [T] Metavolcanic and mafic rocks

UPPER TRIASSIC - STUHINI GROUP
 [H] Augite-phryic basalt, conglomerate and tephrite tuff

MIDDLE-UPPER TRIASSIC
 [G] Pyroxene tuffs and siltstone, chert and siltstone

PERMIAN - STIKINE ASSEMBLAGE
 Limestone Unit:
 [F] Upper Member: Limestone, argillite and maroon tuffs
 [E] Lower Member: Bioclastic limestone
 Rusty Argillite Unit
 [D]

PERMIAN & OLDER - STIKINE ASSEMBLAGE
 Siliceous Unit:
 [C] Sericitic tuff and chert
 Basement Unit:
 [B] Sedimentary Facies: Argillite, siltstone, conglomerate and limestone
 [A] Volcanic Facies: Chloritic volcanic rocks and limestone

INTRUSIVE ROCKS
 EOCENE SUITE
 [I] Altered granodiorite
 [K] Biotite granite

MIDDLE JURASSIC SUITE
 [9] Yehiniko Pluton: Pink biotite granite
 [8] Biotite hornblende granodiorite
 [7] Heterogeneous quartz diorite

EARLY JURASSIC SUITE
 [6] Megacrystic quartz monzonite

MIDDLE-LATE TRIASSIC SUITE
 Hickman Pluton
 [5] Megacrystic quartz diorite
 [4] Main Phase - Quartz monzonite, hornblende biotite granodiorite, tonalite, quartz diorite
 [3] Mafic Phase - hornblende gabbro and hornblende

Ultramafic Rocks:
 [2] Pyroxene gabbro, clinopyroxenite and dunite

Nightout Pluton:
 [1] Biotite hornblende granodiorite

SYMBOLS

- - - Geological contact
- Mafic dyke
- Felsic dyke
- Bedding
- Fault
- Reverse fault
- Plunging syndine, anticline
- Recumbent fold
- Cross-section line
- ★ Isotopic age date location



GEOLOGY OF THE SCUD RIVER AND SCUD GLACIER MAP AREAS
 (104 G/5,6)
 (from O.F. 1989-7, by D.A. Brown, M.H. Gunning)

F. Jaloub

GOLDBELT MINES INC.

COMMANDER I-VII CLAIMS
GALORE CREEK AREA
LAND MINING DIVISION

REGIONAL GEOLOGY MAP

Scale: see scale bar	By: F.Y.
Date: Nov. 1990	Figure: 3

Ashworth Explorations Limited

7. 1990 PROGRAM

7.1 Scope and Purpose

Fieldwork from August 16 to August 23, 1990 was carried out on the Commander I-VII claims. Work consisted of prospecting, rock, silt and soil sampling. The purpose of the program was to assess the mineral potential of the area and to determine a geological model and strategy for future work.

7.2 Methods and Procedures

Contour soil lines were run on the Commander I, II and V claims where topography permitted. Samples were collected at 100 metre intervals with grub hoes and placed into labelled paper soil bags. Samples varied from well developed B horizon soil to talus fines.

Stream sediment samples were collected from running stream channels on all of the Commander claims.

Rock, grab and chip samples were collected from areas of alteration, shearing and rocks containing sulphide mineralization.

The type and number of samples collected are as follows:

<u>Claim</u>	<u>No. of Soil</u>	<u>No. of Silt</u>	<u>No. of Rock</u>	<u>Total</u>
Commander I	15	8	0	23
Commander II	31	4	0	35
Commander III	0	11	2	13
Commander IV	0	5	0	5
Commander V	53	1	6	60
Commander VI	0	11	0	11
Commander VII	0	8	10	18

A total of 18 rock, 48 silt and 99 soil samples were collected and sent to Vangeochem Lab Limited of Vancouver for analysis. All rock, soil and silt samples were analyzed for multi-element ICP and Au by fire assay.

8. RESULTS

8.1 Property Geology (Map 2)

The Commander I-VII claims cover an area of Middle Jurassic Suite of biotite hornblende granodiorite and Eocene Suite of Biotite granite.

Middle Jurassic Suite-Biotite-Hornblende Granodiorite

Biotite-hornblende granodiorite is exposed within the area of Commander V. They form part of a large pluton of relatively uniform composition. The greater part of the body exposed within the study area is composed of light grey, medium-grained equigranular diorite to biotite-hornblende granodiorite, containing an average 40% plagioclase, 25% hornblende, 10% quartz, 20% K-feldspar and 5% biotite. Hornblende shows appreciable alteration and aggregate of secondary biotite, chlorite and granular epidote.

Eocene - Biotite Granite

This unit represents the youngest plutonic suite exposed on the property - a large outcrop of Biotite pink granite exposed at the northeast corner of Commander II claim. Quartz, K-feldspar and plagioclase are the three essential constituents. Quartz is commonly coarse-grained and makes up to 50 percent of the rock, potassium feldspar 30 percent, and plagioclase 20 percent. Biotite is the only ferromagnesian constituent, forming only a few percent of the rock.

8.2 Mineralization

A gossan zone has been located at the central east portion of the Commander VII claim (560 metres elevation). It is a buff to dark brown, sheared, weathered outcrop of altered granitic rock, containing quartz-sericite veinlets, fine-grained disseminated pyrite and heavily FeO₂ stained, intense limonitic and hematitic alteration through most of the zone.

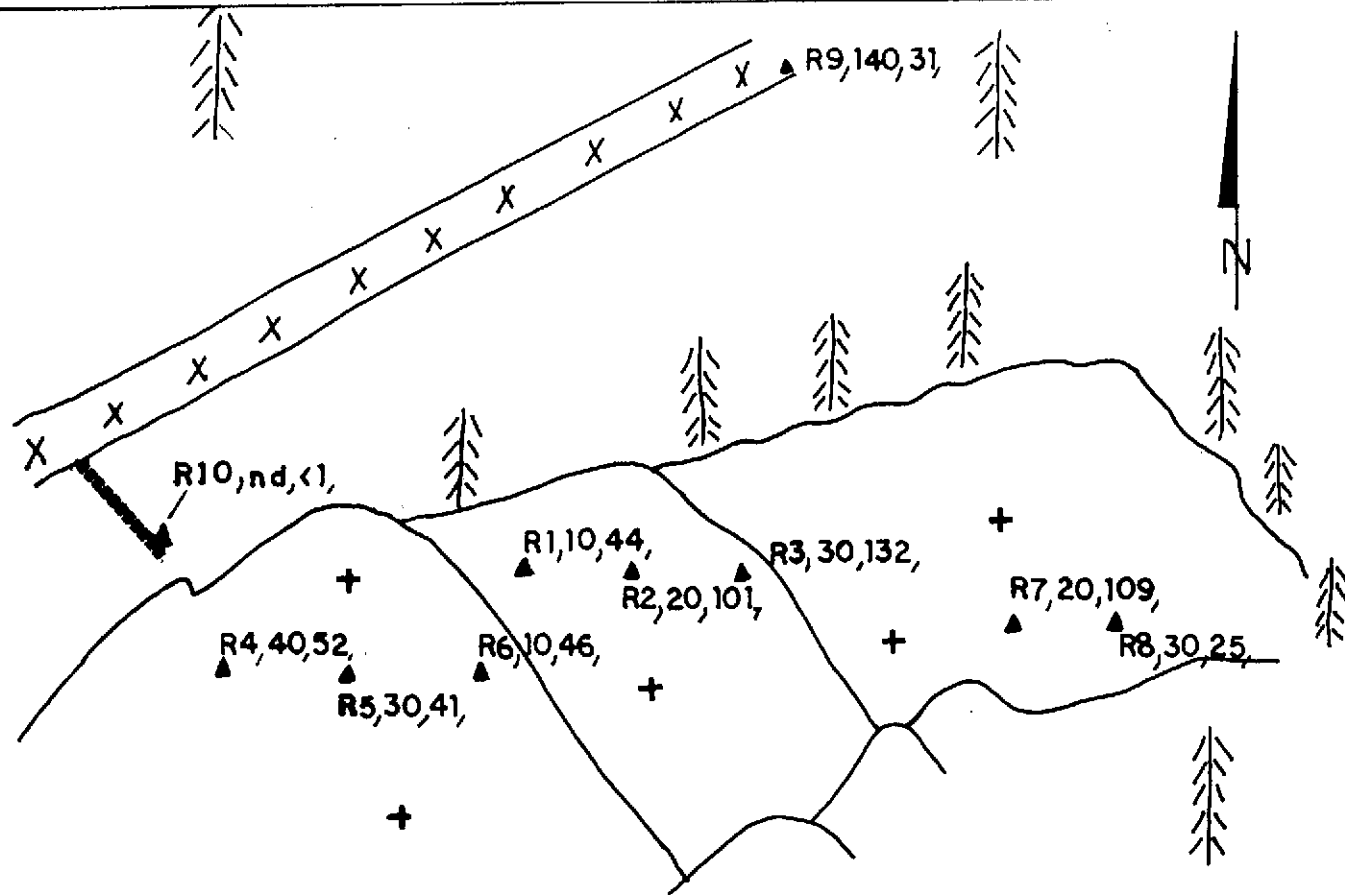
The altered granite within the gossan area has been cut by light grey aphanitic dyke, strike 36 degrees and dipping 82 degrees southeast. Due to the rugged terrain, the gossan zone was sampled using climbing techniques. (See Figure 6 for sample locations.)

The most encouraging results are from sample COM/90 R-11 taken as a grab sample of fine-medium grained granodiorite, with moderate sericitic alteration, 1% pyrite and malachite staining. This sample returned a value of 1562 ppm Cu. Another sample COM/90 R-12 taken from a float altered granitic boulder with strong molybdenite, returned a value of >1000 ppm MO. The source of this float is best assumed to have originated from a shear zone located further upslope.

8.3 Rock Geochemistry (Map 1)

The following rock sample results are considered significant.

<u>Rock Sample No.</u>	<u>Value</u>	<u>Description</u>
COM/90 R3	30 ppb Au	Panel sample (1.0 m x 1.0 m) of heavily Fe ₂ O ₃ stained, siliceous altered quartz-sericite, 2-3% fine-grained pyrite, intense limonitic and hematitic alteration in a gossan zone. Elevation 560 metres.
COM/90 R4	40 ppb Au	Panel sample (1.0 m x 1.0 m) taken from the same gossan area as in R3. Cavities filled with limonite, 2-3% disseminated Py. Elevation 550 metres.
COM/90 R5	30 ppb Au	Rusty, iron stained, altered quartz-sericite, intense limonitic and hematitic alteration, 2-3% fine-grained pyrite. Panel sample. Elevation 550 metres.
COM/90 R8	30 ppb Au	Same as COM/90 R5. Panel sample (1.0 m x 1.0 m). Elevation 550 metres.
COM/90 R9	140 ppb Au	Quartz vein in granitic host, 25 centimetres wide, exposed for 15 metres, strike at 95 /54 NE. No sulphides. Chip sample across vein. Elevation 575 metres.
COM/90 R11	1462 ppm Cu	Grab; fine-medium grained, weathered granodiorite, moderate sericitic alteration, 1% pyrite, minor malachite.
COM/90 R12	>1000 Mo	Float sample of altered, friable granitic boulder with strong molybdenite, trace of pyrite.



LEGEND

- ▲ R10, nd, <1 = Rock sample number, Auppb, Cuppm
- ▬ Quartz vein
- X Aphanitic dyke
- + Altered Biotite granite
- 🌲 Vegetation

SCALE
1 : 250

F. Farouq

GOLDBELT MINES INC.

COMMANDER I-VII CLAIMS
GALORE CREEK AREA
LIARD MINING DIVISION
GOSSAN ZONE

PLAN AND ASSAY RESULTS

Scale: 1:250	By: F.Y.
Date: May 1991	Figure: 4

Ashworth Explorations Limited

8.6 Discussion of Results

Results from the 1990 rock sampling program delineated one area of interest situated at the central part of the Commander III claim where one grab sample returned 1462 ppm Cu and one float sample returned over 1000 ppm Mo.

Results from the soil sampling program delineated three areas of interest where Barium in soil returned values up to 418 ppm Ba. The first area is situated at the central part of Commander I claim. The second area is located at the central part of the Commander V claim. The third area is located at the west part of the Commander I claim.

9. CONCLUSIONS

- * The Commander I-VII claims are situated in an area that is well-known for hosting precious metal and porphyry copper deposits, several of which occur in close proximity to the subject claims including the Galore Creek deposits, the Sphal Creek occurrence and the gold-silver bearing mineralized zones on the Trophy property.
- * Property geology is favourable for hosting these types of deposits.
- * The 1990 field program has outlined three soil anomaly areas where Barium in soils returned elevated values up to 418 ppm Barium, and one area of rock anomaly where grab and float samples returned values of 1462 ppm Cu and >1000 Mo.
- * Not all the ground was covered during the 1990 field program and good potential exists for locating significant mineralization on the remainder of the claims.

Further exploration work is recommended.

10. RECOMMENDATIONS

Phase I

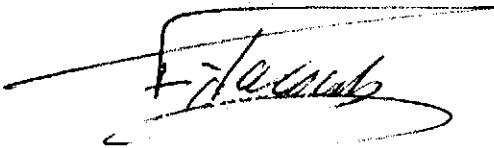
1. Perform geological mapping and prospecting on the entire claims. Concentrate on locating the source of the Molybdenite float on the central part of the Commander III claim, along the intrusive contact.
2. Perform follow-up work on the three anomalous soil areas found during the 1990 field program. The work should consist of putting in fill-in contour lines (100 metres and 50 metres spacing) soil sampling should be performed to better define and extend the current anomalies.
3. Detailed mapping, prospecting and rock sampling should be performed on all areas which require follow-up work.
4. Contour soil sampling to locate unexposed areas of mineralization.

PROPOSED BUDGETCOMMANDER I-VII CLAIMSPHASE I

Geological Mapping, Prospecting, Soil and Stream Sediment Sampling
(Project Geologist, 3 Geotechnicians - 14 field days)

Project Preparation		\$ 2,200
Mob/Demob (includes transportation, freight, wages)		12,500
Field Crew		19,550
Field Costs		16,930
Helicopter Support @ \$650/hr x 10 hours		6,500
Lab Analysis:		
550 soil samples @ \$16/sample	\$ 8,800	
100 rock samples @ \$18/sample	<u>1,800</u>	
		10,600
Supervision and Report		10,200
(including report writing, map plotting, drafting, word processing, copying and binding)		
Sub-Total		<u>\$ 78,480</u>
Administration Costs @ 15%		11,772
		<u>\$ 90,252</u>
TOTAL		\$ 90,252
	SAY	<u>\$ 90,000</u>

Respectfully Submitted by:



Fayz Yacoub, B.Sc., F.G.A.C.

December 1990

LIST OF PERSONNEL

The following personnel were employed during the 1990 field program on the Commander I-VII Claims.

Fayz Yacoub	Project Geologist
Andrew Molnar	Geotechnician
Thomas Kovacs	Geotechnician
Craig Johnson	Geotechnician

REFERENCES

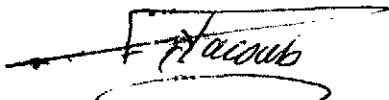
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Geology and Mineral Deposit of the Galore Creek Area, Northwestern British Columbia. Geological Fieldwork 1988. Ministry of Energy, Mines and Petroleum Resources, Paper 1989-1.
- Logan, J.M., Koyanagi, V.M., and Rhys, D., 1989.
Geology and Mineral Occurrences of the Galore Creek Area. Scale 1:50,000. Ministry of Energy, Mines and Petroleum Resources Openfile 1989-8.

CERTIFICATE

I, FAYZ F. YACOUB, of 13031 - 64th Avenue, Surrey, British Columbia, V3W 1X8 do hereby declare:

1. That I am a graduate in Geology and Chemistry from Assuit University, Egypt (B.Sc. 1967), and Mining Exploration Geology of the International Institute for Aerial Survey and Earth Sciences (I.T.C.), Holland (Diploma 1978).
2. I am a fellow in good standing with the Geological Association of Canada.
3. I have actively pursued my career as a geologist for the past seventeen years.
4. The information, opinions, and recommendations in this report are based on fieldwork carried out by myself, and on published and unpublished literature. I was present on the subject property on August 16-23, 1990.
5. I have no interest, direct or indirect, in the subject claims or the securities of Goldbelt Mines Inc.
6. I consent to the use of this report in a Prospectus of Statement of Material Facts for the purpose of private or public financing.

ASHWORTH EXPLORATIONS LIMITED



Fayz Yacoub, B.Sc., F.G.A.C.

Dated at Vancouver, December 1990

STATEMENT OF QUALIFICATIONS

I, Todd A. Faragher, of 9110 - 120th Street, Edmonton, Alberta, do hereby certify that:

1. I am a graduate of the University of Alberta with a Bachelor of Science Degree in Geology, 1988.
2. I am a member in training with the Association of Professional Engineers, Geologists and Geophysicists of Alberta.
3. I have practised my profession as a geologist for three years in British Columbia.
4. The information, opinions and recommendations in this report are based on information provided to myself by Ashworth Explorations Limited of Vancouver, B.C.
5. I have no direct, indirect or contingent interest in the subject claims.
6. I consent to the use of this report in a Prospectus or Statement of Material Facts for the purpose of private or public financing.

Todd Faragher

Todd A. Faragher, B.Sc.

APPENDIX A

ROCK SAMPLE DESCRIPTIONS

THE ALPHA CLAIM GROUP

Rock Sample Descriptions

Sample No.	Description	Sample Width (cm)
COM/90 R1	Panel Sample 1.0 m x 1.0 m heavily iron stained, siliceous altered (quartz-sericite with minor, fine-grained, disseminated pyrite, sample taken from gossan zone 40 metres x 60 metres on a cliff wall using climbing techniques. Elevation: 495 metres.	100
COM/90 R2	Same as R1. Elevation: 560 metres.	100
COM/90 R3	Same as R1. Elevation 560 metres. Panel sample 1.0 m x 1.0 m, intense limonitic alteration.	100
COM/90 R4	Panel; 1.0 m x 1.0 m taken from the same prominent gossan zone, cavities filled with limonite, hematite, 2-3% fine-grained disseminated pyrite. Elevation: 550 metres.	100
COM/90 R5	Rusty, iron stained, altered quartz-sericite, intense limonitic and hematitic alteration, 2-3% pyrite. Panel sample; 1.0 m x 1.0 m. Elevation: 550 metres.	100
COM/90 R6	Same as R5. Elevation: 550 metres.	100
COM/90 R7	Panel; 1.0 m x 1.0 m taken from the same gossan zone at elevation 550 metres, intense staining, limonite.	100
COM/90 R8	Same as R5. Panel sample.	100
COM/90 R9	Quartz vein in granitic host, 25 cms wide, exposed for 15 metres, strike at 95 degrees/54 degrees NE. No sulphides, chip sample at elevation 575 metres.	25
COM/90 R10	Chip sample across 1 metre of dark grey, aphanitic dyke, strike at 36 degrees, dipping 82 degrees SE.	100
COM/90 R11	Grab; fine-medium grained, weathered granodiorite, moderate sericitic alteration, 1% pyrite, minor malachite.	----
COM/90 R12	Float; granitic rock, moderate sericitic alteration, friable with strong Molybdenite, trace of pyrite.	----
COM/90 R16	Chip over 20 centimetres of light brown hematitic sugary quartz vein, no obvious sulphides.	20

Sample No.	Description	Sample Width (cm)
COM/90 R17	Chip; fine-grained granite, moderate argillic alteration hosting 5 cms sugary quartz vein. No sulphides.	30
COM/90 R18	Same as R17. Chip over 30 centimetres.	30
COM/90 R19	Fine-grained granite, intense argillic alteration, moderate silicification, no obvious sulphides. Chip over 1 metre.	100
COM/90 R20	Chip; altered granitic rock, intense argillic alteration, minor pyrite.	100
COM/90 R21	Same as R20.	

APPENDIX B
ANALYTICAL REPORTS

GEOCHEMICAL ANALYTICAL REPORT
=====

CLIENT: ASHWORTH EXPLORATION LTD.
ADDRESS: 718 - 744 W. Hastings St.
: Vancouver, BC
: V6C 1A5

DATE: NOV 05 1990

REPORT#: 900259B GA
JOB#: 900259B

PROJECT#: 325
SAMPLES ARRIVED: AUG 17 1990
REPORT COMPLETED: NOV 05 1990
ANALYSED FOR: Au (FA/AAS) ICP

INVOICE#: 900259B NA
TOTAL SAMPLES: 10
SAMPLE TYPE: 10 ROCK
REJECTS: SAVED

SAMPLES FROM: SMITHERS BC
COPY SENT TO: ASHWORTH EXPLORATION LTD.

PREPARED FOR: MR. FAYZ YACOUB

ANALYSED BY: VGC Staff

SIGNED: _____
Ryand L

GENERAL REMARK: None

REPORT NUMBER: 900259B GA

JOB NUMBER: 900259B

ASHWORTH EXPLORATION LTD.

PAGE 1 OF 1

SAMPLE #	Au ppb
CON/90 R1	10
CON/90 R2	20
CON/90 R3	30
CON/90 R4	40
CON/90 R5	30
CON/90 R6	10
CON/90 R7	20
CON/90 R8	30
CON/90 R9	140
CON/90 R10	nd

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

GEOCHEMICAL ANALYTICAL REPORT
=====

CLIENT: ASHWORTH EXPLORATION LTD.
ADDRESS: 718 - 744 W. Hastings St.
: Vancouver, BC
: V6C 1A5

DATE: SEPT 14 1990

REPORT#: 900413 GA
JOB#: 900413

PROJECT#: 325A
SAMPLES ARRIVED: SEPT 07 1990
REPORT COMPLETED: SEPT 14 1990
ANALYSED FOR: Au (FA/AAS) ICP

INVOICE#: 900413 NA
TOTAL SAMPLES: 8
SAMPLE TYPE: 8 ROCK
REJECTS: SAVED

SAMPLES FROM: SMITHERS BC
COPY SENT TO: ASHWORTH EXPLORATION LTD.

PREPARED FOR: MR. FAYZ YACOB

ANALYSED BY: VGC Staff

SIGNED: 

GENERAL REMARK: None

REPORT NUMBER: 900413 GA

JOB NUMBER: 900413

ASHWORTH EXPLORATION LTD.

PAGE 1 OF 1

SAMPLE #	Au
COM/90 R11	10
COM/90 R12	nd
COM/90 R16	nd
COM/90 R17	nd
COM/90 R18	nd
COM/90 R19	nd
COM/90 R20	nd
COM/90 R21	nd

DETECTION LIMIT
nd = none detected

5
-- = not analysed

is = insufficient sample

GEOCHEMICAL ANALYTICAL REPORT
=====

CLIENT: ASHWORTH EXPLORATION LTD.
ADDRESS: 718 - 744 W. Hastings St.
: Vancouver, BC
: V6C 1A5

DATE: NOV 06 1990

REPORT#: 900261A GA
JOB#: 900261A

PROJECT#: 325
SAMPLES ARRIVED: AUG 17 1990
REPORT COMPLETED: NOV 06 1990
ANALYSED FOR: Au ICP

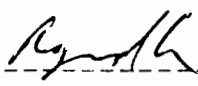
INVOICE#: 900261A NA
TOTAL SAMPLES: 5
SAMPLE TYPE: 5 SILT
REJECTS: DISCARDED

SAMPLES FROM: SMITHERS BC
COPY SENT TO: ASHWORTH EXPLORATION LTD.

PREPARED FOR: MR. FAYZ YACOUB

ANALYSED BY: VGC Staff

SIGNED: _____



GENERAL REMARK: None

REPORT NUMBER: 900261A GA

JOB NUMBER: 900261A

ASHWORTH EXPLORATION LTD.

PAGE 1 OF 1

SAMPLE #	Au
	ppb
CON/90 S1	25
CON/90 S2	15
CON/90 S6	5
CON/90 S7	15
CON/90 S8	5

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

GEOCHEMICAL ANALYTICAL REPORT
=====

CLIENT: ASHWORTH EXPLORATION LTD.
ADDRESS: 718 - 744 W. Hastings St.
: Vancouver, BC
: V6C 1A5

DATE: SEPT 17 1990

REPORT#: 900416 GA
JOB#: 900416

PROJECT#: 325A
SAMPLES ARRIVED: SEPT 07 1990
REPORT COMPLETED: SEPT 17 1990
ANALYSED FOR: Au ICP

INVOICE#: 900416 NA
TOTAL SAMPLES: 46
SAMPLE TYPE: 46 SILT
REJECTS: DISCARDED

SAMPLES FROM: SMITHERS BC
COPY SENT TO: ASHWORTH EXPLORATION LTD.

PREPARED FOR: MR. FAYZ YACOB

ANALYSED BY: VGC Staff

SIGNED: _____

GENERAL REMARK: None

REPORT NUMBER: 900416 GA JOB NUMBER: 900416 ASHWORTH EXPLORATION LTD. PAGE 1 OF 2

SAMPLE I	Au
	ppb
CON/90 S11	nd
CON/90 S12	5
CON/90 S13	25
CON/90 S14	10
CON/90 S15	nd
CON/90 S16	nd
CON/90 S17	5
CON/90 S18	5
CON/90 S19	nd
CON/90 S20	nd
CON/90 S21	15
CON/90 S22	nd
CON/90 S23	15
CON/90 S24	nd
CON/90 S26	5
CON/90 S27	15
CON/90 S28	15
CON/90 S29	20
CON/90 S30	nd
CON/90 S31	15
CON/90 S32	10
CON/90 S33	5
CON/90 S34	10
CON/90 S35	10
CON/90 S40	nd
CON/90 S41	nd
CON/90 S42	nd
CON/90 S43	5
CON/90 S44	nd
CON/90 S45	nd
CON/90 S46	nd
CON/90 S47	nd
CON/90 S48	nd
CON/90 S49	5
CON/90 S50	nd
CON/90 S51	10
CON/90 S52	10
CON/90 S53	nd
CON/90 S54	5

DETECTION LIMIT 5
 nd = none detected -- = not analysed is = insufficient sample

REPORT NUMBER: 900416 GA

JOB NUMBER: 900416

ASHWORTH EXPLORATION LTD.

PAGE 2 OF 2

SAMPLE #	Au ppb
COM/90 555	25
COM/90 556	20
COM/90 557	5
COM/90 566	10
COM/90 567	15
COM/90 568	20
COM/90 569	10

1630 PANDORA STREET
VANCOUVER, BC V5L 1L6
(604) 251-5656



MAIN OFFICE
~~1900 TRIUMPH ST~~
~~VANCOUVER, B.C. V5L 1K5~~
● (604) 251-5656
● FAX (604) 254-5717

BRANCH OFFICES
PASADENA, N.F.L.D.
BATHURST, N.B.
MISSISSAUGA, ONT.
RENO, NEVADA, U.S.A

GEOCHEMICAL ANALYTICAL REPORT

CLIENT: ASHWORTH EXPLORATION LTD.
ADDRESS: 718 - 744 W. Hastings St.
: Vancouver, BC
: V6C 1A5

DATE: SEPT 20 1990

REPORT#: 900430 GA
JOB#: 900430

PROJECT#: 325A
SAMPLES ARRIVED: SEPT 10 1990
REPORT COMPLETED: SEPT 20 1990
ANALYSED FOR: Au ICP

INVOICE#: 900430 NA
TOTAL SAMPLES: 99
SAMPLE TYPE: 99 SOIL
REJECTS: DISCARDED

SAMPLES FROM: SMITHERS BC
COPY SENT TO: ASHWORTH EXPLORATION LTD.

PREPARED FOR: MR. FAYZ YACOB

ANALYSED BY: VGC Staff

SIGNED: _____

Fayz Yacob

GENERAL REMARK: None

1630 PANDORA STREET
VANCOUVER, BC V5L 1L6
(604) 251-5656

VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE
-1980 TRIUMPH ST-
VANCOUVER, B.C. V5L 1K5
• (604) 251-5656
• FAX (604) 254-5717

BRANCH OFFICES
PASADENA, N.F.L.D.
BATHURST, N.B.
MISSISSAUGA, ONT.
RENO, NEVADA, U.S.A.

REPORT NUMBER: 900430 GA JOB NUMBER: 900430 MOUNTNORTH EXPLORATION LTD. PAGE 1 OF 3

SAMPLE #	µg ppb
CON/90 L1	25
CON/90 L2	10
CON/90 L3	10
CON/90 L4	25
CON/90 L6	25
CON/90 L7	25
CON/90 L8	10
CON/90 L9	25
CON/90 L10	25
CON/90 L12	nd
CON/90 L13	15
CON/90 L14	nd
CON/90 L15	15
CON/90 L16	nd
CON/90 L17	10
CON/90 L19	20
CON/90 L20	15
CON/90 L21	5
CON/90 L22	25
CON/90 L23	5
CON/90 L24	5
CON/90 L25	25
CON/90 L26	nd
CON/90 L27	15
CON/90 L28	nd
CON/90 L29	20
CON/90 L30	nd
CON/90 L31	nd
CON/90 L32	nd
CON/90 L33	20
CON/90 L34	15
CON/90 L35	10
CON/90 L36	10
CON/90 L37	nd
CON/90 L38	10
CON/90 L39	20
CON/90 L41	20
CON/90 L42	25
CON/90 L43	20

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

1630 PANDORA STREET
VANCOUVER, BC V5L 1L6
(604) 251-5656

VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE
~~1988 TRIUMPH ST.~~
VANCOUVER, B.C. V5L 1K5
• (604) 251-5656
• FAX (604) 254-5717

BRANCH OFFICES
PASADENA, N.F.L.D.
BATHURST, N.B.
MISSISSAUGA, ONT.
RENO, NEVADA, U.S.A

REPORT NUMBER: 900430 GA

JOB NUMBER: 900430

ASHWORTH EXPLORATION LTD.

PAGE 2 OF 3

SAMPLE #	µg ppb
CON/90 L44	10
CON/90 L45	nd
CON/90 L46	5
CON/90 L115	20
CON/90 L116	15
CON/90 L117	25
CON/90 L118	25
CON/90 L119	20
CON/90 L120	5
CON/90 L121	15
CON/90 L122	20
CON/90 L123	10
CON/90 L124	15
CON/90 L125	nd
CON/90 L126	5
CON/90 L127	5
CON/90 L128	10
CON/90 L129	nd
CON/90 L130	15
CON/90 L131	20
CON/90 L132	nd
CON/90 L201	10
CON/90 L202	nd
CON/90 L203	5
CON/90 L204	10
CON/90 L205	nd
CON/90 L206	15
CON/90 L207	nd
CON/90 L208	20
CON/90 L209	5
CON/90 L210	5
CON/90 L211	15
CON/90 L212	25
CON/90 L213	5
CON/90 L214	25
CON/90 L215	15
CON/90 L216	5
CON/90 L217	nd
CON/90 L218	10

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

1630 PANDORA STREET
VANCOUVER, BC V5L 1L6
(604) 251-5656

VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE
~~1088 TRIUMPH ST.~~
VANCOUVER, B.C. V5L 1K5
• (604) 251-5656
• FAX (604) 254-5717

BRANCH OFFICES
PASADENA, N.F.L.D.
BATHURST, N.B.
MISSISSAUGA, ONT.
RENO, NEVADA, U.S.A.

REPORT NUMBER: 900430 GA

JOB NUMBER: 900430

ASHWORTH EXPLORATION LTD.

PAGE 3 OF 3

SAMPLE #	Au
	ppb
COM/90 L219	5
COM/90 L220	10
COM/90 L221	nd
COM/90 L222	nd
COM/90 L223	nd
COM/90 L224	15
COM/90 L225	15
COM/90 L226	15
COM/90 L227	15
COM/90 L228	5
COM/90 L229	10
COM/90 L230	20
COM/90 L231	nd
COM/90 L232	20
COM/90 L302	10
COM/90 L303	25
COM/90 L304	nd
COM/90 L305	5
COM/90 L306	5
COM/90 L307	15
COM/90 L308	nd

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

VANGEOCHEM LAB LIMITED

1630 Pandora Street, Vancouver, B.C. V5L 1L6
Ph:(604)251-5656 Fax:(604)254-5717

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O at 95 °C for 90 minutes and is diluted to 10 ml with water.
This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *Agath*

REPORT #: 9002598 PA

ASHWORTH EXPLORATION LTD.

PROJECT: 325

DATE IN: AUG 17 1990

DATE OUT: SEPT 05 1990

ATTENTION: MR. FAYZ YACUB

PAGE 1 OF 1

Sample Name	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sn ppm	Sr ppm	U ppm	W ppm	Zn ppm
COM/90 R1	0.1	0.62	<3	15	<3	0.57	3.2	30	108	44	2.35	0.19	0.14	99	32	<0.01	32	0.10	84	15	28	58	<5	<3	14
COM/90 R2	0.1	1.18	<3	23	<3	0.72	<0.1	24	30	101	2.80	0.08	0.41	172	19	<0.01	41	0.12	36	<2	23	82	<5	<3	38
COM/90 R3	0.3	0.94	<3	29	<3	0.66	<0.1	35	77	132	4.13	0.27	0.45	218	19	0.01	49	0.15	58	<2	28	24	<5	<3	35
COM/90 R4	0.3	0.86	17	18	<3	0.76	4.6	32	42	52	1.90	0.23	0.15	117	31	<0.01	38	0.11	85	10	24	46	6	<3	13
COM/90 R5	0.3	0.54	<3	27	<3	0.48	3.2	28	70	41	2.04	0.24	0.15	78	41	<0.01	43	0.08	67	8	29	21	<5	<3	13
COM/90 R6	0.3	0.70	3	37	<3	0.49	0.8	16	34	46	2.04	0.14	0.10	106	22	<0.01	27	0.07	40	<2	17	19	<5	<3	12
COM/90 R7	0.5	1.47	<3	26	<3	0.73	0.7	30	81	109	3.60	0.19	0.74	257	31	0.02	50	0.11	69	<2	29	37	<5	<3	88
COM/90 R8	0.1	1.30	5	16	<3	0.97	1.5	26	51	25	1.62	0.28	0.09	72	33	<0.01	40	0.10	69	21	17	41	7	<3	18
COM/90 R9	0.1	0.29	32	19	<3	0.06	0.2	16	186	31	0.87	0.34	0.15	213	36	<0.01	37	<0.01	73	19	15	<1	7	<3	14
COM/90 R10	0.1	0.30	25	12	<3	0.02	3.7	10	45	<1	0.26	0.12	<0.01	329	12	<0.01	24	<0.01	79	9	18	<1	6	<3	30

Minimum Detection	0.1	0.01	3	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	2	2	1	5	3	1		
Maximum Detection	50.0	10.00	2000	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	2000	1000	10000	100	1000	20000		
< - Less Than Minimum) - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.																										

ICAP GEOCHEMICAL LIMITED

1630 Pandora Street, Vancouver, B.C. V5L 1L6
 Ph: (604)251-3656 Fax: (604)254-5717

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O at 95 °C for 90 minutes and is diluted to 10 ml with water.
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *[Signature]*

REPORT #: 900413 PA ASHNORTH EXPLORATION LTD. PROJECT: 325A DATE IN: SEPT 07 1990 DATE OUT: OCT 05 1990 ATTENTION: MR. FAYZ YACQUB PAGE 1 OF 1

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
CON/90 R11	7.0	0.13	<3	6	<3	0.16	3.2	1	73	1462	6.89	0.07	0.06	149	425	0.02	14	<0.01	93	7	6	7	<5	<3	52
CON/90 R12	0.5	0.21	<3	12	<3	0.10	1.5	6	174	52	0.79	<0.01	0.11	130	>1000	<0.01	5	<0.01	46	<2	<2	7	<5	<3	18
CON/90 R16	0.3	0.29	<3	18	<3	0.07	1.1	2	105	32	1.13	<0.01	0.13	215	58	0.01	11	0.02	69	<2	4	5	<5	<3	24
CON/90 R17	0.3	0.20	<3	16	<3	0.02	0.9	<1	173	7	0.78	<0.01	0.03	48	30	0.02	7	<0.01	51	<2	<2	4	<5	205	14
CON/90 R18	0.1	0.32	<3	25	<3	0.01	0.2	<1	69	6	0.72	<0.01	0.05	117	10	0.04	5	<0.01	27	<2	<2	5	<5	<3	13
CON/90 R19	0.2	0.18	<3	11	<3	<0.01	0.3	<1	99	4	0.47	<0.01	<0.01	12	6	<0.01	4	<0.01	23	<2	<2	3	<5	213	6
CON/90 R20	0.2	0.44	<3	41	<3	<0.01	0.5	<1	47	6	0.78	<0.01	0.03	51	8	0.02	4	<0.01	52	<2	2	7	<5	8	13
CON/90 R21	0.1	0.28	<3	30	<3	0.01	0.2	<1	106	6	0.57	<0.01	0.05	68	3	0.04	2	<0.01	23	<2	2	7	<5	<3	10
Minimum Detection	0.1	0.01	3	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	2	2	1	5	3	1
Maximum Detection	50.0	10.00	2000	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	2000	1000	10000	100	1000	20000

< - Less Than Minimum > - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

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1630 Pandora Street, Vancouver, B.C. V5L 1L6
 Ph: (604) 251-5656 Fax: (604) 254-5717

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O at 95 °C for 90 minutes and is diluted to 10 ml with water.
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *[Signature]*

REPORT #: 900261A PA

ASHWORTH EXPLORATION LTD.

PROJECT: 325

DATE IN: AUG 17 1990

DATE OUT: SEPT 11 1990

ATTENTION: MR. FAYZ YACUB

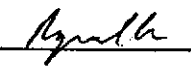
PAGE 1 OF 1

Sample Name	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sn ppm	Sr ppm	U ppm	W ppm	Zn ppm
CDM/90 S1	<0.1	2.23	<3	130	<3	0.75	2.1	22	28	43	4.08	0.18	1.16	655	12	<0.01	28	0.17	<2	<2	15	71	<5	<3	78
CDM/90 S2	<0.1	0.65	<3	76	<3	0.87	0.4	8	31	26	1.88	0.13	0.36	223	4	<0.01	18	0.10	<2	<2	8	29	<5	<3	28
CDM/90 S6	<0.1	1.03	<3	90	<3	0.55	2.3	16	68	27	6.46	0.19	0.49	423	7	<0.01	23	0.13	9	<2	12	31	<5	<3	53
CDM/90 S7	<0.1	2.53	<3	212	<3	0.80	1.6	21	38	36	3.71	0.20	1.33	1059	8	<0.01	19	0.15	<2	<2	16	57	<5	<3	87
CDM/90 S8	<0.1	2.47	<3	199	<3	0.75	1.3	20	37	34	3.51	0.18	1.32	1016	7	<0.01	18	0.14	<2	<2	16	53	<5	<3	85

Minimum Detection 0.1 0.01 3 1 3 0.01 0.1 1 1 1 0.01 0.01 0.01 1 1 0.01 1 0.01 2 2 2 1 5 3 1
 Maximum Detection 50.0 10.00 2000 1000 1000 10.00 1000.0 20000 1000 20000 10.00 10.00 10.00 20000 1000 10.00 20000 10.00 20000 2000 1000 10000 100 1000 20000
 < - Less Than Minimum > - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O at 95 °C for 90 minutes and is diluted to 10 ml with water.
This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: 

REPORT #: 900416 PA

ASHNORTH EXPLORATION LTD.

PROJECT: 325A

DATE IN: SEPT 07 1990

DATE OUT: OCT 05 1990

ATTENTION: MR. FAYZ YACUB

PAGE 1 OF 2

Sample Name	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sn ppm	Sr ppm	U ppm	W ppm	Zn ppm
CDM/90 S11	<0.1	1.12	<3	179	<3	1.41	0.7	11	34	36	1.90	0.15	0.75	389	5	0.03	31	0.10	12	<2	5	46	<5	<3	47
CDM/90 S12	0.1	0.72	<3	108	<3	1.07	0.6	8	25	22	1.66	0.12	0.48	266	3	0.03	21	0.06	7	<2	4	35	<5	<3	28
CDM/90 S13	0.3	0.58	<3	83	<3	0.89	1.4	9	38	25	2.54	0.12	0.37	236	4	0.04	20	0.08	6	<2	4	30	<5	<3	26
CDM/90 S14	<0.1	0.62	<3	93	<3	1.17	2.3	13	49	33	5.54	0.17	0.43	309	3	0.05	22	0.08	18	<2	6	32	<5	<3	39
CDM/90 S15	0.1	0.63	<3	103	<3	1.20	1.0	11	47	33	3.34	0.15	0.42	274	5	0.04	24	0.09	13	<2	5	33	<5	<3	32
CDM/90 S16	0.2	0.59	<3	96	<3	1.16	0.9	9	30	28	2.38	0.14	0.41	245	4	0.03	22	0.09	4	<2	4	32	<5	<3	28
CDM/90 S17	<0.1	1.29	<3	115	<3	0.62	0.2	11	39	26	2.50	0.09	0.74	486	5	0.03	23	0.09	10	<2	6	39	<5	<3	50
CDM/90 S18	<0.1	0.64	<3	110	<3	1.33	0.5	8	27	30	2.15	0.14	0.48	268	3	0.03	16	0.07	5	<2	5	35	<5	<3	30
CDM/90 S19	<0.1	2.28	<3	192	<3	0.65	1.3	18	22	28	3.69	0.11	1.13	816	6	0.03	20	0.12	3	<2	9	56	<5	<3	65
CDM/90 S20	<0.1	2.24	<3	154	<3	0.59	1.0	18	22	27	3.61	0.10	1.12	767	4	0.03	14	0.11	5	<2	9	52	<5	<3	63
CDM/90 S21	<0.1	0.51	<3	86	<3	0.94	2.2	17	69	34	9.07	0.19	0.34	352	4	0.06	27	0.09	25	11	8	28	<5	<3	48
CDM/90 S22	<0.1	0.70	<3	125	<3	1.12	0.6	8	27	28	1.72	0.13	0.47	268	3	0.03	18	0.07	5	<2	4	36	<5	<3	28
CDM/90 S23	<0.1	0.88	<3	130	<3	0.43	0.3	5	11	12	2.10	0.06	0.44	332	7	0.04	8	0.09	18	<2	5	41	<5	<3	59
CDM/90 S24	<0.1	0.64	<3	111	<3	0.48	0.6	6	8	28	1.50	0.07	0.30	219	3	0.02	5	0.09	4	<2	3	33	<5	<3	26
CDM/90 S26	0.1	0.98	<3	91	<3	0.61	0.4	10	15	22	2.25	0.08	0.55	465	5	0.03	6	0.09	7	<2	6	52	<5	<3	34
CDM/90 S27	<0.1	1.03	<3	64	<3	0.61	<0.1	9	12	15	1.86	0.09	0.53	480	4	0.02	6	0.07	<2	<2	5	51	<5	<3	34
CDM/90 S28	<0.1	0.86	<3	56	<3	0.55	0.8	8	10	13	1.94	0.07	0.45	417	3	0.02	3	0.07	5	<2	5	46	<5	<3	31
CDM/90 S29	<0.1	0.53	<3	94	<3	1.07	1.1	12	66	34	4.89	0.16	0.38	283	6	0.05	23	0.10	20	<2	5	32	<5	<3	37
CDM/90 S30	<0.1	0.67	<3	116	<3	1.27	0.1	8	26	29	1.80	0.14	0.50	258	3	0.02	17	0.07	10	<2	5	36	<5	<3	28
CDM/90 S31	<0.1	2.12	<3	199	<3	0.81	0.9	22	21	42	4.43	0.14	1.26	779	7	0.04	11	0.15	8	<2	11	77	<5	<3	72
CDM/90 S32	<0.1	2.15	<3	199	<3	0.82	1.6	22	21	41	4.64	0.15	1.28	769	6	0.05	14	0.14	17	<2	11	75	<5	<3	77
CDM/90 S33	<0.1	2.37	<3	214	<3	0.85	1.2	23	21	45	5.00	0.15	1.38	837	7	0.05	11	0.14	13	<2	13	82	<5	<3	78
CDM/90 S34	<0.1	0.64	<3	113	<3	1.04	<0.1	8	27	23	2.33	0.12	0.43	257	4	0.02	13	0.07	3	<2	4	33	<5	<3	31
CDM/90 S35	<0.1	0.53	<3	90	<3	1.06	1.0	12	41	24	4.96	0.16	0.38	268	4	0.04	12	0.06	23	<2	6	31	<5	<3	32
CDM/90 S40	<0.1	0.65	<3	74	<3	0.50	<0.1	8	8	17	2.30	0.08	0.36	367	6	0.03	<1	0.08	14	<2	5	39	<5	<3	26
CDM/90 S41	<0.1	0.69	<3	79	<3	0.49	<0.1	8	9	16	1.95	0.07	0.38	367	8	0.02	<1	0.08	3	<2	5	41	<5	<3	27
CDM/90 S42	<0.1	0.70	<3	83	<3	0.48	<0.1	8	8	16	2.42	0.07	0.39	387	9	0.02	<1	0.08	11	<2	5	39	<5	<3	30
CDM/90 S43	<0.1	0.76	<3	86	<3	0.51	<0.1	8	10	17	1.85	0.07	0.43	405	8	0.02	<1	0.08	2	<2	5	42	<5	<3	32
CDM/90 S44	<0.1	0.71	<3	81	<3	0.49	<0.1	7	9	16	2.01	0.07	0.40	386	6	0.02	<1	0.08	3	<2	5	40	<5	<3	28
CDM/90 S45	<0.1	0.79	<3	88	<3	0.47	0.1	9	9	17	3.61	0.08	0.44	518	7	0.04	<1	0.08	18	<2	6	36	<5	<3	43
CDM/90 S46	<0.1	1.55	<3	137	<3	0.63	<0.1	13	36	18	2.73	0.09	0.72	668	20	0.03	11	0.09	4	<2	8	50	<5	<3	48
CDM/90 S47	<0.1	0.63	<3	116	<3	1.13	<0.1	10	36	39	4.18	0.15	0.44	296	4	0.03	10	0.08	9	<2	6	34	<5	<3	34
CDM/90 S48	<0.1	0.65	<3	129	<3	1.03	<0.1	8	28	23	2.05	0.12	0.45	261	3	0.03	6	0.07	7	<2	4	35	<5	<3	30
CDM/90 S49	<0.1	0.66	<3	120	<3	1.28	<0.1	7	25	24	1.76	0.14	0.48	264	3	0.03	10	0.08	<2	<2	5	38	<5	<3	27
CDM/90 S50	<0.1	2.81	<3	253	<3	0.80	0.6	20	31	35	3.80	0.13	1.30	1005	6	0.04	13	0.13	14	<2	11	70	<5	<3	80
CDM/90 S51	<0.1	2.96	<3	223	<3	0.80	0.2	22	31	50	4.54	0.13	1.54	1089	5	0.04	12	0.12	6	<2	12	71	<5	<3	91
CDM/90 S52	<0.1	2.59	<3	236	<3	0.66	<0.1	19	24	29	3.79	0.12	1.30	1017	5	0.04	8	0.11	3	<2	10	66	<5	<3	72
CDM/90 S53	<0.1	2.75	<3	156	<3	0.94	0.1	22	45	30	4.43	0.15	1.67	980	6	0.04	14	0.14	6	<2	12	78	<5	<3	85
CDM/90 S54	<0.1	0.59	<3	95	<3	0.99	<0.1	12	39	26	4.36	0.15	0.40	269	5	0.04	6	0.07	11	<2	6	29	<5	<3	30

VANGEOCHEM LAB LIMITED

1630 Pandora Street, Vancouver, B.C. V5L 1L6
 Ph: (604)251-5656 Fax: (604)254-5717

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O at 95 °C for 90 minutes and is diluted to 10 ml with water.
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: Raymond Lee

REPORT #: 900416 PA ASHWORTH EXPLORATION LTD. PROJECT: 325A DATE IN: SEPT 07 1990 DATE OUT: OCT 05 1990 ATTENTION: MR. FAYZ YACUB PAGE 2 OF 2

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
CDM/90 S55	0.1	0.50	<3	93	<3	1.09	2.0	12	61	45	4.48	0.17	0.34	257	4	0.02	31	0.10	28	16	6	31	<5	<3	32
CDM/90 S56	<0.1	0.59	<3	96	<3	0.47	<0.1	9	8	26	1.64	0.07	0.27	202	<1	0.02	<1	0.09	4	7	5	30	<5	<3	27
CDM/90 S57	<0.1	0.77	<3	136	<3	0.49	1.1	11	10	30	1.90	0.09	0.39	270	<1	0.02	<1	0.08	<2	5	6	35	<5	<3	39
CDM/90 S66	<0.1	0.49	<3	68	<3	0.48	1.7	11	7	24	4.45	0.12	0.21	230	<1	0.02	<1	0.10	14	16	7	28	<5	<3	31
CDM/90 S67	<0.1	1.05	<3	131	<3	0.54	0.8	12	4	15	2.92	0.10	0.52	483	<1	0.03	<1	0.10	<2	<2	7	55	<5	<3	43
CDM/90 S68	<0.1	0.70	<3	84	<3	0.37	0.8	7	<1	5	1.64	0.07	0.39	395	<1	0.02	<1	0.08	9	6	5	34	<5	<3	41
CDM/90 S69	<0.1	0.43	<3	58	<3	0.38	0.8	9	2	20	3.09	0.10	0.19	175	3	0.02	<1	0.09	18	13	5	23	<5	<3	24
Minimum Detection	0.1	0.01	3	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	2	2	1	5	3	1
Maximum Detection	50.0	10.00	2000	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	2000	1000	10000	100	1000	20000

< - Less Than Minimum > - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

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VAN GEOCHEM LAB LIMITED

1630 Pandora Street, Vancouver, B.C. V5L 1L6
Ph: (604)251-5656 Fax: (604)254-5717

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O at 95 °C for 90 minutes and is diluted to 10 ml with water.
This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: Royall

REPORT #: 900430 PA

ASHWORTH EXPLORATION LTD.

PROJECT: 325A

DATE IN: SEPT 10 1990

DATE OUT: OCT 05 1990

ATTENTION: MR. FAYZ YACOUB

PAGE 1 OF 3

Sample Name	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sn ppm	Sr ppm	U ppm	W ppm	Zn ppm
COM/90 L1	<0.1	2.61	<3	241	<3	0.62	2.8	31	<1	227	6.91	0.25	1.32	1022	3	0.03	14	0.14	<2	<2	16	54	<5	<3	79
COM/90 L2	<0.1	3.49	<3	418	<3	0.81	2.7	50	3	109	5.24	0.23	1.89	2033	<1	0.03	13	0.16	<2	<2	16	61	<5	<3	107
COM/90 L3	<0.1	3.02	<3	205	<3	0.43	2.8	24	2	79	4.82	0.18	1.38	1121	<1	0.02	8	0.10	<2	<2	15	43	<5	<3	81
COM/90 L4	0.2	2.88	<3	200	<3	0.40	2.8	28	17	60	4.54	0.16	1.33	2149	<1	0.02	10	0.20	<2	<2	13	40	<5	<3	82
COM/90 L5	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
COM/90 L6	0.2	1.61	<3	23	<3	0.04	1.4	7	10	8	1.28	0.02	0.10	54	<1	0.01	<1	0.03	<2	<2	12	11	<5	<3	33
COM/90 L7	<0.1	3.06	<3	49	<3	0.23	1.2	9	<1	12	1.99	0.06	0.67	419	<1	0.02	<1	0.02	<2	<2	13	24	<5	<3	59
COM/90 L8	<0.1	2.20	<3	31	<3	0.06	1.7	10	10	11	2.72	0.06	0.17	102	<1	0.01	<1	0.02	<2	<2	15	12	<5	<3	29
COM/90 L9	<0.1	1.98	<3	34	<3	0.08	2.1	9	19	14	2.80	0.05	0.40	203	<1	0.01	8	0.03	<2	<2	11	13	<5	<3	39
COM/90 L10	0.6	2.72	<3	32	<3	0.06	1.8	7	26	18	3.39	0.07	0.44	213	<1	0.02	8	0.03	<2	<2	13	11	<5	<3	54
COM/90 L12	0.2	4.47	<3	38	<3	0.06	1.9	6	<1	23	5.04	0.12	0.48	326	<1	0.02	<1	0.03	<2	<2	17	6	<5	<3	58
COM/90 L13	<0.1	3.68	<3	56	<3	0.14	1.7	11	27	27	4.42	0.10	0.62	280	<1	0.02	15	0.02	<2	<2	15	19	<5	<3	63
COM/90 L14	<0.1	3.09	<3	61	<3	0.23	2.0	10	4	25	3.35	0.09	0.58	413	<1	0.02	<1	0.06	<2	<2	12	23	<5	<3	63
COM/90 L15	<0.1	2.64	<3	38	<3	0.07	1.4	9	31	20	4.03	0.08	0.51	293	<1	0.02	10	0.03	<2	<2	13	13	<5	<3	53
COM/90 L16	<0.1	3.02	<3	49	<3	0.06	2.2	7	16	26	3.34	0.07	0.36	194	<1	0.02	<1	0.03	<2	<2	10	14	<5	<3	52
COM/90 L17	<0.1	1.87	<3	34	<3	0.07	1.5	8	15	13	2.99	0.06	0.27	154	<1	0.02	<1	0.04	<2	<2	11	15	<5	<3	40
COM/90 L19	<0.1	3.14	<3	89	<3	0.15	2.1	18	11	17	3.87	0.09	0.67	1670	<1	0.02	<1	0.08	<2	<2	14	48	<5	<3	65
COM/90 L20	<0.1	2.78	<3	66	<3	0.09	1.2	11	8	14	3.08	0.06	0.53	396	<1	0.02	<1	0.06	<2	<2	14	19	<5	<3	48
COM/90 L21	<0.1	4.32	<3	77	<3	0.23	2.1	16	<1	32	3.24	0.09	0.83	648	<1	0.02	<1	0.08	<2	<2	14	22	<5	<3	71
COM/90 L22	<0.1	4.06	<3	71	<3	0.23	2.4	16	<1	25	3.72	0.09	0.80	744	<1	0.02	<1	0.07	<2	<2	15	25	<5	<3	55
COM/90 L23	<0.1	4.28	<3	191	<3	0.31	2.5	27	<1	57	5.03	0.17	1.61	862	<1	0.03	<1	0.09	<2	<2	19	33	<5	<3	100
COM/90 L24	<0.1	4.37	<3	77	<3	0.25	1.7	15	<1	25	4.20	0.12	0.99	406	<1	0.02	<1	0.06	<2	<2	18	37	<5	<3	68
COM/90 L25	<0.1	2.87	<3	73	<3	0.13	1.8	9	4	16	2.80	0.06	0.61	262	<1	0.01	<1	0.10	<2	<2	11	43	<5	<3	58
COM/90 L26	<0.1	2.49	<3	67	<3	0.05	2.0	8	<1	13	3.62	0.07	0.16	67	<1	0.01	<1	0.05	<2	<2	14	18	<5	<3	32
COM/90 L27	<0.1	2.94	<3	111	<3	0.32	2.5	20	<1	25	4.59	0.14	1.10	553	<1	0.02	<1	0.07	<2	<2	14	41	<5	<3	74
COM/90 L28	<0.1	3.07	<3	69	<3	0.12	1.3	8	2	18	3.20	0.06	0.58	213	<1	0.01	<1	0.06	<2	<2	12	27	<5	<3	72
COM/90 L29	<0.1	4.57	<3	99	<3	0.22	2.3	14	<1	23	4.69	0.12	0.84	388	<1	0.02	<1	0.06	<2	<2	17	38	<5	<3	53
COM/90 L30	<0.1	4.37	<3	59	<3	0.13	1.5	14	<1	23	4.28	0.09	0.82	444	<1	0.02	<1	0.06	<2	<2	17	20	<5	<3	52
COM/90 L31	<0.1	3.25	<3	39	<3	0.02	2.7	9	<1	17	4.67	0.09	0.31	111	<1	0.01	<1	0.07	<2	<2	17	14	<5	<3	29
COM/90 L32	<0.1	4.17	<3	70	<3	0.07	1.5	16	<1	18	4.73	0.11	0.65	864	<1	0.02	<1	0.04	<2	<2	18	24	<5	<3	67
COM/90 L33	<0.1	4.05	<3	87	<3	0.20	1.5	16	<1	22	4.42	0.12	0.99	478	<1	0.02	<1	0.07	<2	<2	17	29	<5	<3	94
COM/90 L34	<0.1	3.31	<3	56	<3	0.02	1.5	10	<1	15	3.67	0.07	0.67	354	<1	0.02	<1	0.07	<2	<2	15	16	<5	<3	47
COM/90 L35	<0.1	2.83	<3	51	<3	0.04	1.7	10	<1	15	3.31	0.07	0.43	241	<1	0.02	<1	0.03	<2	<2	15	23	<5	<3	44
COM/90 L36	<0.1	2.35	<3	85	<3	0.15	1.6	16	<1	22	2.09	0.06	0.74	269	<1	0.03	<1	0.05	<2	<2	17	28	<5	<3	58
COM/90 L37	<0.1	1.78	<3	79	<3	0.29	1.5	11	<1	18	2.27	0.06	0.72	645	<1	0.02	<1	0.04	<2	<2	9	46	<5	<3	60
COM/90 L38	<0.1	1.54	<3	117	<3	0.37	1.0	12	<1	23	2.46	0.07	0.74	699	<1	0.02	<1	0.08	<2	<2	7	46	<5	<3	55
COM/90 L39	<0.1	1.65	<3	200	<3	0.49	2.1	15	4	34	2.75	0.10	0.94	844	<1	0.02	<1	0.08	<2	<2	9	57	<5	<3	68
COM/90 L41	<0.1	1.65	<3	177	<3	0.48	1.3	14	<1	23	2.63	0.10	0.87	838	<1	0.03	<1	0.08	<2	<2	9	54	<5	<3	58
COM/90 L42	<0.1	1.77	<3	147	<3	0.47	1.7	15	<1	22	2.70	0.10	0.90	812	<1	0.02	<1	0.08	<2	<2	10	57	<5	<3	62

Minimum Detection 0.1 0.01 3 1 3 0.01 0.1 1 1 1 0.01 0.01 0.01 1 1 0.01 1 0.01 2 2 2 1 5 3 1
 Maximum Detection 50.0 10.00 2000 1000 1000 10.00 1000.0 20000 1000 20000 10.00 10.00 10.00 20000 1000 10.00 20000 10.00 20000 2000 2000 1000 10000 100 1000 20000

< - Less Than Minimum > - Greater Than Maximum is - Insufficient Sample ns - No Sample ANDALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

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ANALYST: *Ryan L*

REPORT #: 900430 PA ASHWORTH EXPLORATION LTD. PROJECT: 325A DATE IN: SEPT 10 1990 DATE OUT: OCT 05 1990 ATTENTION: MR. FAYZ YACOUB PAGE 2 OF 3

Sample Name	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	Sb ppm	Sn ppm	Sr ppm	U ppm	W ppm	Zn ppm
COM/90 L43	<0.1	5.04	<3	128	<3	0.29	2.4	20	7	30	3.37	0.09	0.93	904	<1	0.02	17	0.04	<2	<2	19	39	<5	<3	72
COM/90 L44	<0.1	0.87	<3	37	<3	0.10	0.9	8	2	5	0.73	<0.01	0.05	57	<1	<0.01	5	0.04	<2	<2	12	21	<5	<3	19
COM/90 L45	<0.1	2.38	<3	87	<3	0.45	2.1	14	7	31	2.96	0.10	0.95	804	<1	0.02	13	0.06	<2	<2	13	53	<5	<3	74
COM/90 L46	<0.1	1.42	<3	95	<3	0.64	2.0	16	7	14	2.65	0.10	0.78	740	<1	0.02	10	0.09	<2	<2	9	59	<5	<3	62
COM/90 L115	<0.1	1.02	<3	33	<3	0.03	1.6	6	8	7	1.43	0.01	0.06	103	<1	<0.01	2	0.02	<2	<2	10	8	<5	<3	35
COM/90 L116	<0.1	2.04	<3	52	<3	0.20	2.1	9	14	14	2.80	0.06	0.43	296	<1	0.01	11	0.04	<2	<2	14	21	<5	<3	53
COM/90 L117	<0.1	2.70	<3	54	<3	0.15	1.9	13	18	15	3.23	0.06	0.47	513	<1	0.01	14	0.02	<2	<2	15	19	<5	<3	80
COM/90 L118	<0.1	2.87	<3	35	<3	0.15	2.0	8	<1	13	3.07	0.05	0.42	315	<1	0.01	5	0.03	<2	<2	15	19	<5	<3	67
COM/90 L119	<0.1	2.76	<3	35	<3	0.08	1.0	9	35	16	3.25	0.05	0.38	280	<1	<0.01	17	0.03	<2	<2	13	13	<5	<3	58
COM/90 L120	<0.1	2.33	<3	36	<3	0.10	2.0	10	4	12	3.21	0.06	0.22	259	5	0.01	3	0.03	<2	<2	16	16	<5	<3	63
COM/90 L121	<0.1	2.51	<3	54	<3	0.13	1.9	5	<1	10	1.89	0.03	0.29	329	<1	0.01	3	0.05	<2	<2	12	21	<5	<3	64
COM/90 L122	<0.1	1.95	<3	45	<3	0.12	2.1	11	14	12	3.05	0.06	0.25	527	11	0.01	6	0.04	<2	<2	15	21	<5	<3	58
COM/90 L123	<0.1	2.41	<3	34	<3	0.08	1.9	6	<1	11	3.09	0.04	0.19	145	<1	<0.01	<1	0.04	<2	<2	15	14	<5	<3	51
COM/90 L124	<0.1	1.16	<3	29	<3	0.05	1.4	7	5	8	1.34	<0.01	0.17	113	<1	<0.01	<1	0.04	<2	<2	13	11	<5	<3	45
COM/90 L125	<0.1	2.51	<3	29	<3	0.04	1.6	10	12	12	3.13	0.05	0.13	86	<1	<0.01	<1	0.02	<2	<2	18	10	<5	<3	41
COM/90 L126	<0.1	1.51	<3	31	<3	0.05	1.3	10	6	9	1.49	0.02	0.17	136	<1	<0.01	1	0.03	<2	<2	15	15	<5	<3	43
COM/90 L127	<0.1	1.25	<3	72	<3	0.07	1.2	2	<1	6	0.73	<0.01	0.08	55	<1	<0.01	<1	0.04	<2	<2	10	25	<5	<3	54
COM/90 L128	<0.1	1.37	<3	52	<3	0.14	1.6	7	<1	9	1.78	0.04	0.35	308	<1	<0.01	<1	0.04	<2	<2	12	19	<5	<3	58
COM/90 L129	<0.1	0.31	7	28	<3	0.03	2.1	<1	5	6	0.64	<0.01	0.04	40	<1	<0.01	<1	0.05	13	3	6	12	<5	<3	63
COM/90 L130	<0.1	2.02	<3	37	<3	0.08	1.8	10	22	14	3.40	0.06	0.38	281	<1	0.01	11	0.04	<2	<2	12	14	<5	<3	67
COM/90 L131	<0.1	1.01	<3	49	<3	0.13	1.1	8	4	8	0.59	<0.01	0.08	35	49	<0.01	<1	0.04	10	<2	13	22	<5	<3	66
COM/90 L132	<0.1	2.20	<3	34	<3	0.04	1.9	8	8	11	3.29	0.06	0.17	126	<1	0.01	<1	0.02	<2	<2	13	11	<5	<3	42
COM/90 L201	<0.1	2.55	<3	36	<3	0.04	1.5	5	23	15	2.73	0.04	0.33	99	<1	<0.01	4	0.04	<2	<2	12	13	<5	<3	44
COM/90 L202	<0.1	3.31	<3	55	<3	0.12	1.8	12	21	28	3.52	0.07	0.87	402	<1	0.02	23	0.02	<2	<2	17	20	<5	<3	92
COM/90 L203	0.2	3.57	<3	23	<3	<0.01	1.2	4	10	17	1.99	0.02	0.17	223	<1	<0.01	1	0.06	<2	<2	14	8	<5	<3	58
COM/90 L204	<0.1	3.28	<3	74	<3	0.21	2.3	13	23	25	3.70	0.09	0.72	497	<1	0.02	6	0.03	<2	<2	15	24	<5	<3	81
COM/90 L205	<0.1	3.36	<3	37	<3	0.05	2.2	10	30	21	4.16	0.07	0.50	193	<1	0.01	19	0.04	<2	<2	16	11	<5	<3	69
COM/90 L206	<0.1	2.21	<3	32	<3	0.02	1.2	9	22	16	2.21	0.03	0.37	142	<1	<0.01	4	0.05	<2	<2	12	12	<5	<3	59
COM/90 L207	0.1	5.18	<3	114	<3	0.61	2.2	30	15	39	5.40	0.10	1.44	1095	<1	0.03	14	0.12	<2	<2	21	45	<5	<3	120
COM/90 L208	<0.1	3.63	<3	153	<3	0.41	1.9	23	<1	20	3.62	0.13	1.67	475	<1	0.02	2	0.10	<2	<2	15	30	<5	<3	72
COM/90 L209	<0.1	3.54	<3	50	<3	0.14	2.1	13	4	25	3.71	0.08	0.74	370	<1	0.01	2	0.05	<2	<2	16	20	<5	<3	94
COM/90 L210	<0.1	2.79	<3	57	<3	0.09	2.2	9	20	19	4.49	0.09	0.37	219	<1	0.01	<1	0.06	<2	<2	17	14	<5	<3	78
COM/90 L211	0.1	5.11	<3	158	<3	0.47	2.5	28	8	31	4.90	0.17	1.85	666	<1	0.03	13	0.08	<2	<2	22	38	<5	<3	99
COM/90 L212	0.2	2.63	<3	88	<3	0.64	2.1	27	7	31	3.77	0.13	1.18	760	<1	0.03	2	0.13	<2	<2	13	47	<5	<3	81
COM/90 L213	<0.1	3.77	<3	112	<3	0.61	2.5	28	10	35	4.39	0.16	1.33	797	<1	0.03	6	0.11	<2	<2	17	46	<5	<3	88
COM/90 L214	<0.1	3.44	<3	57	<3	0.12	1.9	15	7	19	4.79	0.11	0.63	400	<1	0.02	<1	0.05	<2	<2	18	19	<5	<3	64
COM/90 L215	<0.1	4.38	<3	115	<3	0.32	2.5	23	7	33	6.40	0.16	0.96	551	<1	0.02	<1	0.11	<2	<2	25	32	<5	<3	112
COM/90 L216	<0.1	4.35	<3	129	<3	0.70	3.2	40	<1	53	5.85	0.20	1.46	1021	<1	0.03	<1	0.12	<2	<2	22	55	<5	<3	91
COM/90 L217	0.6	5.01	<3	71	<3	0.05	1.6	6	<1	22	2.41	0.05	0.45	272	<1	0.02	<1	0.10	<2	<2	18	14	<5	<3	66

Minimum Detection	0.1	0.01	3	1	3	0.01	0.1	1	1	1	0.01	0.01	0.01	1	1	0.01	1	0.01	2	2	2	1	5	3	1	
Maximum Detection	50.0	10.00	2000	1000	1000	10.00	1000.0	20000	1000	20000	10.00	10.00	10.00	20000	1000	10.00	20000	10.00	20000	2000	2000	1000	10000	100	1000	20000

< - Less Than Minimum > - Greater Than Maximum <3 - Insufficient Sample <1 - No Sample ANALYTICAL TECHNIQUE - Further Inquiries By Alternative Methods Suggested

VAN JECHE LABORATORY

1630 Pandora Street, Vancouver, B.C. V5L 1L6
 Ph: (604) 251-9636 Fax: (604) 254-5717

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO₃ to H₂O at 95 °C for 90 minutes and is diluted to 10 ml with water.
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and U.

ANALYST: *Roy H*

REPORT #: 900430 PA

ASHWORTH EXPLORATION LTD.

PROJECT: 325A

DATE IN: SEPT 10 1990

DATE OUT: OCT 09 1990

ATTENTION: MR. FAYZ YACOUB

PAGE 3 OF 3

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	V	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
CON/90 L218	0.2	3.86	<3	69	<3	0.37	1.7	24	6	31	5.13	0.14	0.96	529	<1	0.02	11	0.05	<2	<2	19	34	<5	<3	73
CON/90 L219	<0.1	3.56	<3	99	<3	0.52	1.6	27	12	34	4.80	0.14	1.33	667	<1	0.02	12	0.04	<2	<2	16	47	<5	<3	79
CON/90 L220	<0.1	3.18	<3	79	<3	0.30	0.4	15	7	19	3.24	0.08	0.81	432	<1	0.01	5	0.06	<2	<2	14	27	<5	<3	61
CON/90 L221	<0.1	1.49	<3	64	<3	0.15	0.3	12	13	11	1.91	0.03	0.27	108	<1	0.01	<1	0.05	<2	<2	14	20	<5	<3	44
CON/90 L222	0.1	0.75	<3	41	<3	0.12	0.5	20	5	8	0.59	<0.01	0.06	71	<1	0.01	<1	0.01	27	3	17	25	<5	<3	35
CON/90 L223	<0.1	2.67	<3	55	<3	0.23	0.8	13	4	16	3.53	0.08	0.59	616	<1	0.02	<1	0.04	<2	<2	13	34	<5	<3	86
CON/90 L224	<0.1	2.07	<3	100	<3	0.51	<0.1	16	7	23	2.81	0.10	0.81	787	<1	0.02	3	0.07	<2	<2	11	54	<5	<3	87
CON/90 L225	0.2	1.28	<3	104	<3	0.34	0.9	16	12	11	2.03	0.07	0.73	1029	<1	0.02	1	0.04	<2	<2	11	47	<5	<3	78
CON/90 L226	<0.1	2.77	<3	119	<3	0.24	0.9	18	29	18	3.80	0.10	1.06	685	<1	0.02	11	0.01	<2	<2	14	34	<5	<3	83
CON/90 L227	<0.1	2.00	<3	272	<3	0.73	0.6	20	15	34	3.39	0.15	1.22	1196	<1	0.03	1	0.10	<2	<2	12	67	<5	<3	117
CON/90 L228	<0.1	1.26	<3	169	<3	0.48	0.6	14	7	22	2.59	0.09	0.76	752	<1	0.02	<1	0.08	<2	<2	8	46	<5	<3	77
CON/90 L229	<0.1	1.57	<3	229	<3	0.52	0.3	16	4	26	2.67	0.10	0.84	907	<1	0.02	<1	0.08	<2	<2	9	52	<5	<3	73
CON/90 L230	<0.1	1.57	<3	121	<3	0.56	0.4	16	7	25	2.62	0.11	0.82	813	<1	0.03	<1	0.08	<2	<2	10	57	<5	<3	64
CON/90 L231	<0.1	1.44	<3	106	<3	0.58	<0.1	15	6	19	2.19	0.10	0.76	750	<1	0.03	<1	0.08	<2	<2	10	58	<5	<3	62
CON/90 L232	<0.1	2.40	<3	156	<3	0.33	<0.1	20	7	27	3.05	0.09	0.81	1022	<1	0.02	<1	0.04	<2	<2	14	57	<5	<3	96
CON/90 L302	0.2	2.25	<3	55	<3	<0.01	<0.1	5	2	11	2.26	0.04	0.30	453	<1	0.02	<1	0.02	<2	<2	9	10	<5	<3	92
CON/90 L303	1.4	2.14	<3	35	<3	0.04	1.2	3	<1	11	1.69	0.03	0.25	144	<1	0.02	<1	0.05	107	<2	10	14	<5	<3	88
CON/90 L304	0.1	1.14	<3	67	<3	0.20	0.2	8	<1	5	1.98	0.06	0.45	276	<1	0.02	<1	0.03	<2	<2	12	23	<5	<3	68
CON/90 L305	<0.1	0.99	<3	30	<3	<0.01	<0.1	13	8	9	1.87	0.02	0.06	65	<1	0.01	<1	0.03	7	5	15	9	<5	<3	46
CON/90 L306	<0.1	2.18	<3	43	<3	0.03	<0.1	7	<1	10	1.77	0.03	0.26	406	<1	0.01	<1	0.05	<2	<2	11	16	<5	<3	89
CON/90 L307	0.3	3.65	<3	32	<3	<0.01	0.8	6	2	15	4.72	0.09	0.30	229	<1	0.02	<1	0.05	<2	<2	16	9	<5	<3	92
CON/90 L308	0.1	4.12	<3	48	<3	<0.01	<0.1	5	<1	11	3.02	0.06	0.31	349	<1	0.02	<1	0.04	<2	<2	12	16	<5	<3	61

Minimum Detection 0.1 0.01 3 1 3 0.01 0.1 1 1 1 0.01 0.01 0.01 1 1 0.01 1 0.01 2 2 2 1 5 3 1
 Maximum Detection 50.0 10.00 2000 1000 1000 10.00 1000.0 20000 1000 20000 10.00 10.00 10.00 20000 1000 10.00 20000 10.00 20000 2000 2000 1000 10000 100 1000 20000
 < - Less Than Minimum > - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

OFFICE AND STORAGE

APPENDIX C
ANALYTICAL TECHNIQUES

October 19, 1990

TO: Mr. Fayz Yacoub
ASHWORTH EXPLORATION LTD.
718 - 744 W. Hastings St.
Vancouver, BC V6C 1A5

FROM: VANGEOCHEM LAB LIMITED
1630 Pandora Street
Vancouver, BC V5L 1L6

SUBJECT: Analytical procedure used to determine gold by fire assay method and detect by atomic absorption spectrophotometry in geological samples.

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received at the laboratory in high wet-strength, 4" x 6", Kraft paper bags. Rock samples would be received in poly ore bags.
- (b) Dried soil and silt samples were sifted by hand using an 8" diameter, 80-mesh, stainless steel sieve. The plus 80-mesh fraction was rejected. The minus 80-mesh fraction was transferred into a new bag for subsequent analyses.
- (c) Dried rock samples were crushed using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for subsequent analyses.

2. Method of Extraction

- (a) 20.0 to 30.0 grams of the pulp samples were used. Samples were weighed out using a top-loading balance and deposited into individual fusion pots.
- (b) A flux of litharge, soda ash, silica, borax, and, either flour or potassium nitrite is added. The samples are then fused at 1900 degrees Farenhiet to form a lead "button".

-2-

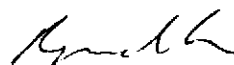
- (c) The gold is extracted by cupellation and parted with diluted nitric acid.
- (d) The gold beads are retained for subsequent measurement.

3. Method of Detection

- (a) The gold beads are dissolved by boiling with concentrated aqua regia solution in hot water bath.
- (b) The detection of gold was performed with a Techtron model AA5 Atomic Absorption Spectrophotometer with a gold hollow cathode lamp. The results were read out on a strip chart recorder. The gold values, in parts per billion, were calculated by comparing them with a set of known gold standards.

4. Analysts

The analyses were supervised or determined by Mr. Raymond Chan or Mr. Conway Chun and his laboratory staff.



Raymond Chan
VANGEOCHEM LAB LIMITED

October 19, 1990

TO: Mr. Fayz Yacoub
ASHWORTH EXPLORATION LTD.
718 - 744 W. Hastings St.
Vancouver, BC V6C 1A5

FROM: VANGEOCHEM LAB LIMITED
1630 Pandora Street
Vancouver, BC V5L 1L6

SUBJECT: Analytical procedure used to determine hot acid soluble for 25 element scan by Inductively Coupled Plasma Spectrophotometry in geochemical silt and soil samples.

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received at the laboratory in high wet-strength, 4" X 6", Kraft paper bags. Rock samples would be received in poly ore bags.
- (b) Dried soil and silt samples were sifted by hand using an 8" diameter, 80-mesh, stainless steel sieve. The plus 80-mesh fraction was rejected. The minus 80-mesh fraction was transferred into a new bag for subsequent analyses.
- (c) Dried rock samples were crushed using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for subsequent analyses.

2. Method of Digestion

- (a) 0.50 gram portions of the minus 80-mesh samples were used. Samples were weighed out using an electronic balance.
- (b) Samples were digested with a 5 ml solution of HCl:HNO₃:H₂O in the ratio of 3:1:2 in a 95 degree Celsius water bath for 90 minutes.
- (c) The digested samples are then removed from the bath and bulked up to 10 ml total volume with demineralized water and thoroughly mixed.

-2-

3. Method of Analyses

The ICP analyses elements were determined by using a Jarrell-Ash ICAP model 9000 directly reading the spectrophotometric emissions. All major matrix and trace elements are interelement corrected. All data are subsequently stored onto disketts.

4. Analysts

The analyses were supervised or determined by Mr. Conway Chun or Mr. Raymond Chan and his laboratory staff.



Raymond Chan
VANGEOCHEM LAB LIMITED

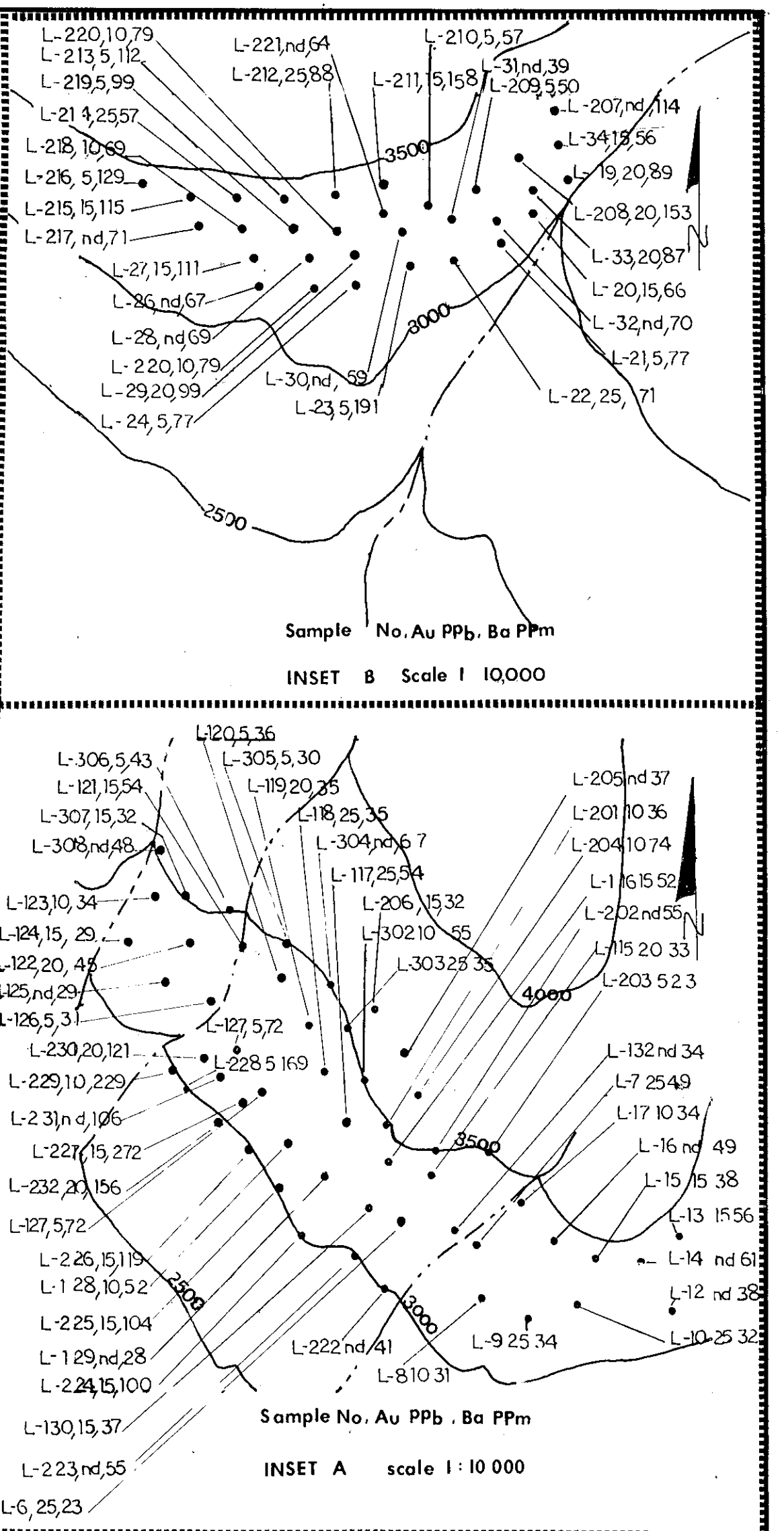
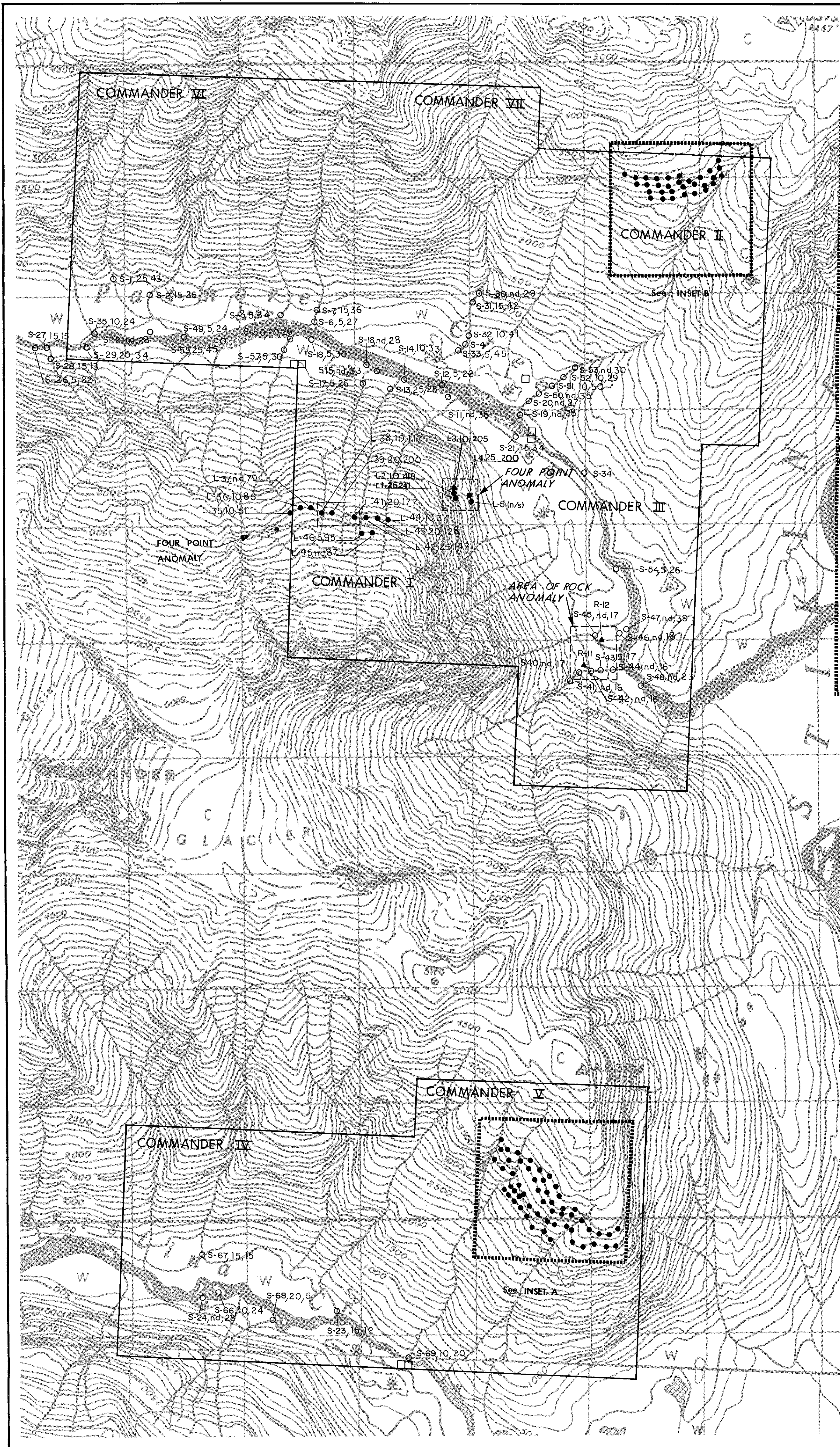
APPENDIX D

ITEMIZED COST STATEMENT

THE COMMANDER I-VII CLAIMS

ITEMIZED COST STATEMENT

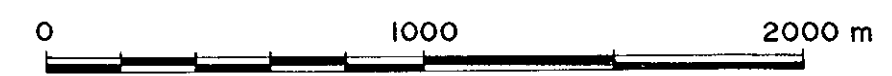
Field Crew:			
Project Geologist @ \$350/day x 5 days	\$	1,750	
Prospector @ \$300/day x 5 days		1,500	
Two Geotechnicians @ \$250/day x 5 days		<u>2,500</u>	5,750
Field Costs:			
Food and Accommodation			
@ \$160/day x 20 mandays	\$	3,200	
Communications @ \$75/day x 5 days		375	
Cargo/Sample Shipping/Expediting		<u>675</u>	4,250
Lab Analysis:			
27 Rock Samples			2,157
43 Stream Sediment Samples (Aqua Regia/AA for Au & Multi-element I.C.P.)			
Helicopter Support:			3,277
Report:			
Data Compilation and Report Writing	\$1,475		
Drafting and Maps	633		
Word Processing, Copying, Binding	<u>450</u>		2,558
Sub-Total:			<u>\$ 17,992</u>
Administration and Supervision @ 15%			2,698
TOTAL:			<u>\$ 20,690</u>



LEGEND

- ▲ R-6 Rock sample location and sample number
- L-4 Soil sample location and sample number Au PPb, Ba PPM
- S-10 Stream sediment sample location and sample number Au PPb, Cu PPM
- ▾ Swamp
- ▨ Dry river bed
- W Wooded area
- ▭ Glacier, ice field
- ▭ LCP and claim boundary
- Creek
- 2000— Topographic contour (interval 100 feet)
- Timberline
- Cleared area

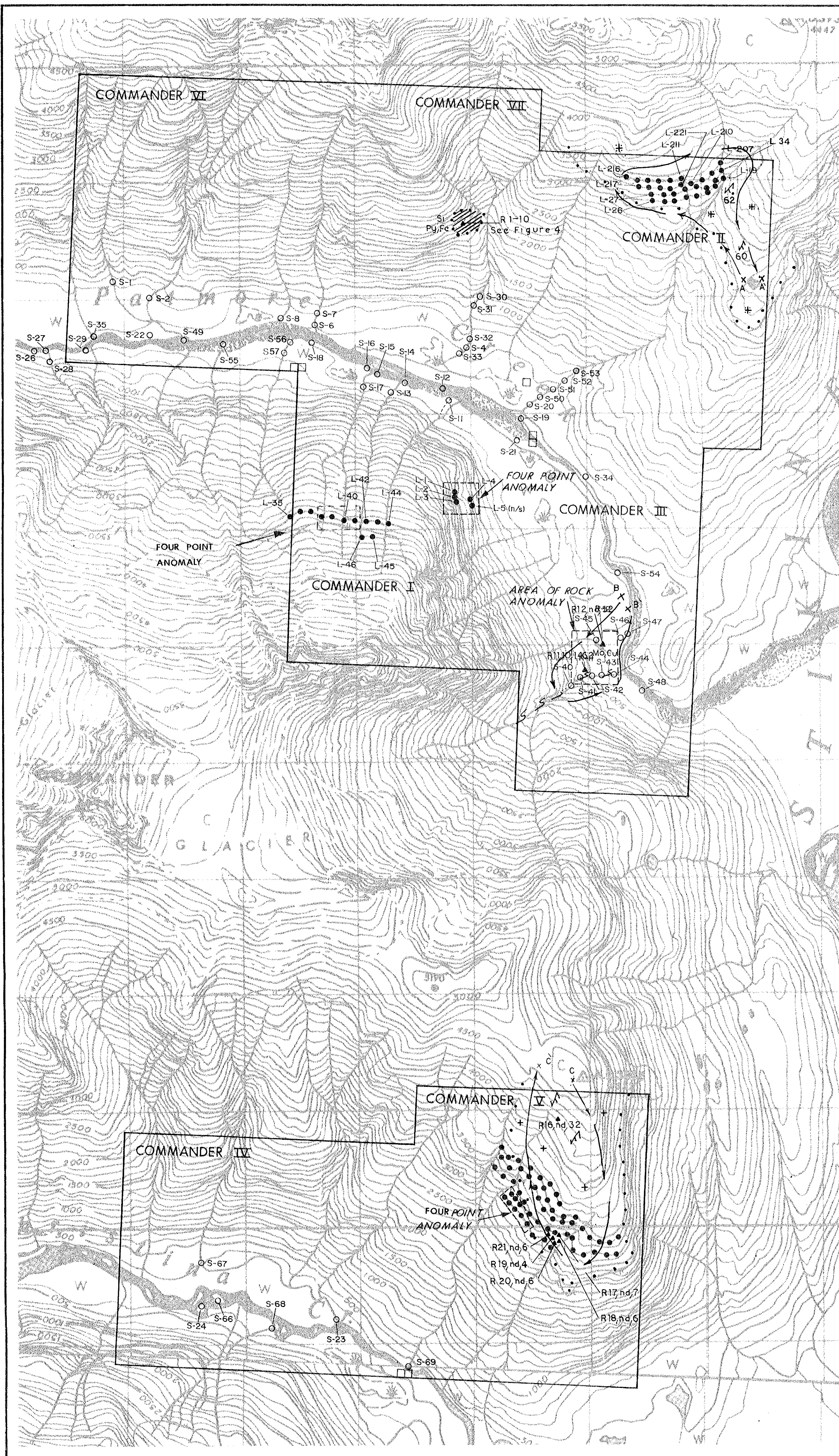
F. Jacob



NTS 104 G/4,5

A.R. 20783

GOLDBELT MINES INC.	
COMMANDER I-VII CLAIMS GALORE CREEK AREA LIARD MINING DIVISION	
SOIL AND STREAM SEDIMENT GEOCHEMISTRY MAP	
Scale : 1 : 20 000	By : F.Y.
Date : Nov. 1990	Map No. : 1
Ashworth Explorations Limited	



LEGEND

EOCENE

Biotite granite

MIDDLE JURASSIC

+ Biotite-hornblende granodiorite

/// Gossan area

○ Area of outcrop

A → A Location of traverse

↗ ↘ ↙ ↚ Foliation (inclined, vertical)

— S — Shear zone

Si Silicification

Py Pyrite

Mo Molybdenite

Fe Hematite, limonite

Cu Malachite

▲ R-6 Rock Sample location and Sample number; Auppb, Cuppm

● L-5 Soil sample location and sample number

○ S-10 Stream sediment sample location and sample number

☙ Swamp

☐ Dry river bed

W Wooded area

○ Glacier, ice field

□ LCP and claim boundary

— Creek

—2000— Topographic contour (interval 100 feet)

— Timberline

□ Cleared area

F. F. Fawcett



NTS 104 G/4,5

A.R. 20783

GOLDBELT MINES INC.

COMMANDER I-VII CLAIMS

GALORE CREEK AREA

LIARD MINING DIVISION

GEOLOGY MAP

Scale : 1 : 20 000 By : F.Y.
Date : Apr. 1991 Map No. : 2

Ashworth Explorations Limited