

MAP No.

105 D 5

ASSESSMENT REPORT  
PROSPECTUS  
CONFIDENTIAL  
OPEN FILE



DOCUMENT NO.: 091929  
MINING DISTRICT: WHITEHORSE  
TYPE OF WORK: GEOLOGICAL, GEOCHEMICAL

REPORT FILED UNDER: C.L. Ashley

DATE PERFORMED: Sept. 21, 1986      DATE FILED: March 23, 1987

LOCATION	LAT.	60°17'N	AREA: Wheaton River
	LONG.	135°40'W	

CLAIM NAME & NO.  
ASH 11-20 YA94085-YA94094

VALUE \$ 1,000.00
WORK DONE BY:
WORK DONE FOR:
DATE TO GOOD STANDING

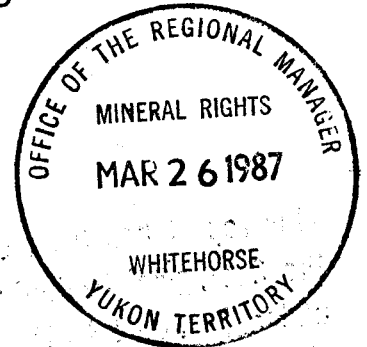
R. Doherty  
Aurum Geological Consulting Inc.

REMARKS:  
#169 CA



1080-5  
GEOLOGICAL MAPPING  
&  
GEOCHEMICAL SAMPLING  
on the  
ASH 11-20 Claims

Whitehorse Mining District  
Yukon Territory  
September 21, 1986



091929

CLAIMS

1. ASH 11-20 (YA94085-YA94094)

LOCATION

1. 60 km SW of Whitehorse, Yukon
2. NTS 105 D-5
3. Latitude  $60^{\circ} 17'$   
Longitude  $135^{\circ} 40'$

FOR

Mr. Clarke L. Ashley  
400-601 West Cordova Street  
Vancouver, B.C.  
V6B 1G1

BY

R. Allan Doherty, B.Sc.  
AURUM GEOLOGICAL CONSULTANTS INC.  
604-675 West Hastings Street  
Vancouver, B.C.  
V6B 1N2

March 16, 1987

This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ 1000.00.

*for* *D.A. Emmond*  
Regional Manager, Exploration and  
Geological Services for Commissioner  
of Yukon Territory.

TABLE OF CONTENTS

	<u>Page</u>
TABLE OF CONTENTS	i
INTRODUCTION	1
LOCATION AND ACCESS	1
HISTORY	1
PROPERTY	3
PERSONNEL	3
CLIMATE, TOPOGRAPHY AND VEGETATION	3
GEOLOGY	5
Regional	5
Property	5
GEOCHEMISTRY	5
CONCLUSIONS	8
RECOMMENDATIONS	8
REFERENCES	9
STATEMENT OF COSTS	10
STATEMENT OF QUALIFICATIONS	11
APPENDIX 1 ANALYTICAL RESULTS	12
LIST OF FIGURES	
Figure 1. Location Map	2
Figure 2. Claim Location Map	4
Figure 3. Geology and Geochemistry Map	6

## INTRODUCTION

This report describes the exploration for assessment purposes carried out by Aurum Geological Consultants Inc. on the ASH 11-20 Claims on September 21, 1986. The field work was carried out at the request of Mr. Clarke Ashley and consisted of geological mapping and geochemical sampling.

## LOCATION AND ACCESS

The Ash 11-20 claims are located in southwestern Yukon, approximately 60 km southwest of Whitehorse ( Figure 1). An all weather gravel road leads from the Carcross highway south of Whitehorse to the Mt. Skukum mine site approximately 15 km southeast of the Ash Claims.

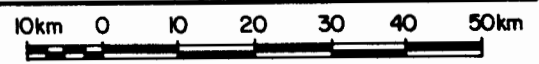
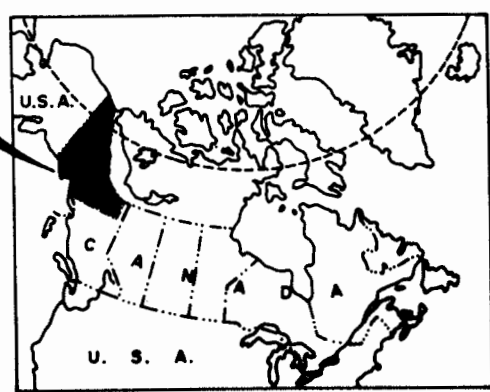
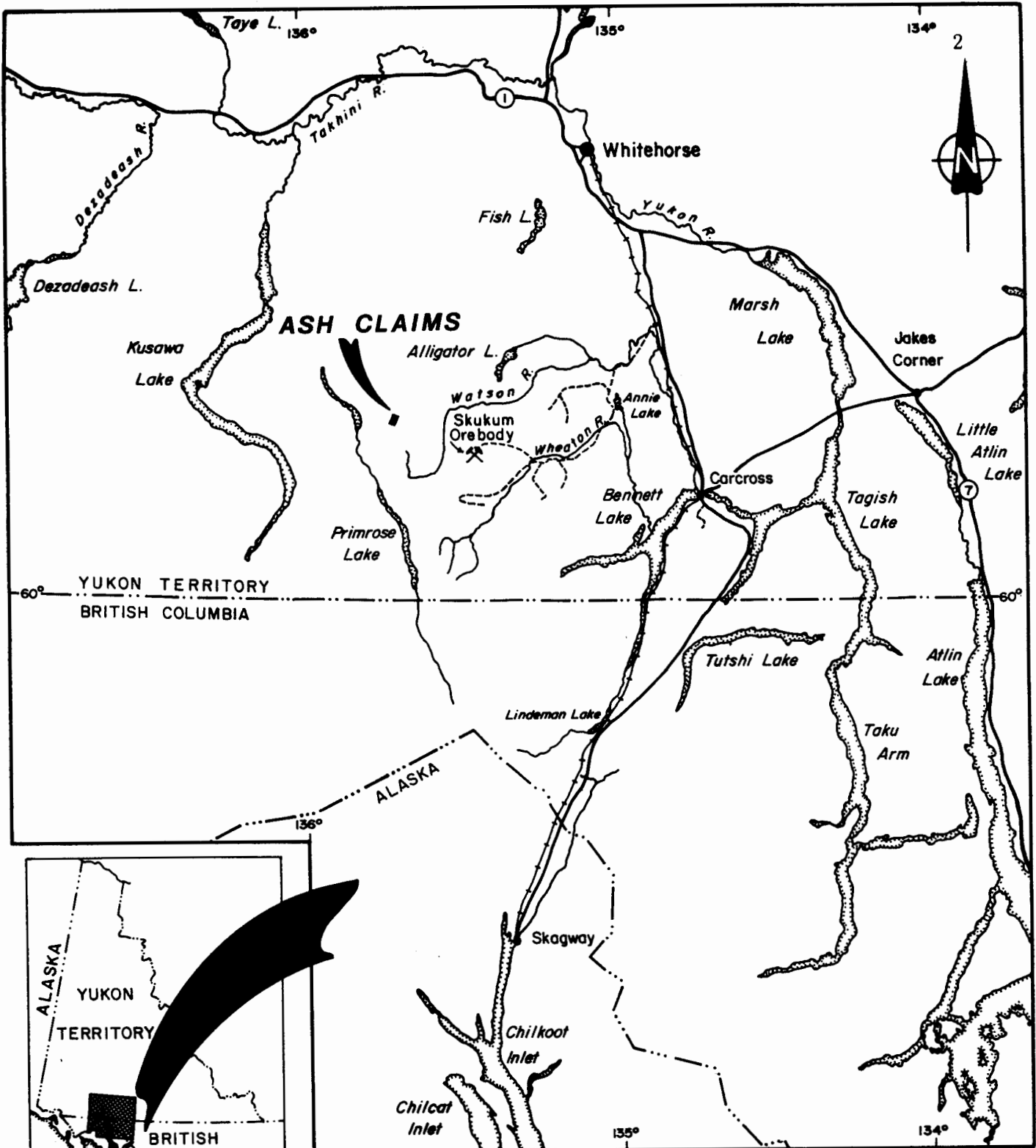
Access to the property is by helicopter from Whitehorse or from a seasonal helicopter base in the Wheaton River valley.

## HISTORY

The ground now covered by the Ash 11-20 claims was previously staked as the CC 1-10 claims which after lapsing were re-staked as the presently named claims. Both groups of claims were staked for Mr. Clarke Ashley.

Exploration for gold-silver in the Wheaton and Watson Rivers area has been intermittent since the late 1890's to the present, with increasing activity since 1980. The discovery of the high grade gold-silver deposit at Mt. Skukum during 1980-83 has resulted in a major claim staking rush in the area and a dramatic increase in the level of exploration expenditures.

Currently the Mt. Skukum deposit is producing 5000 ounces of gold a month (Total Erickson Resources Ltd. Annual Report 1986), and the Skukum Creek property adjoining Mt. Skukum to the southeast has drill indicated reserves of 418,000 tons of 0.23 oz/ton gold and 9.87 oz/ton silver (Omni Resources Inc. Annual Report, 1986).



<b>ASH 11-20 CLAIMS</b>	
<b>LOCATION</b>	
<i>Aurum Geological Consultants Inc.</i>	March, 1987
Drawn by N.H.	Checked by RAD
Scale 1:1,000,000	<b>FIGURE 1</b>

### PROPERTY

The ASH 11-20 claims (YA94085-YA94094) consist of ten unsurveyed claims covering a rectangular block of ground on the 105 D-5 quartz claim sheet (Figure 2). The ASH 20 claim is shown as overlapping the Face 48 claim which is on the northwest corner of the Face 1-48 claims (YA81920-YA81967) owned by Noranda Exploration Company Limited.

The ASH 11-20 claims were staked on December 7, 1985 in accordance with the Yukon Quartz Mining Act and were recorded at the Whitehorse Mining Records office on December 13, 1985. The claims are wholly owned by Mr. Clarke Ashley of Vancouver. Current claim status is listed below.

CLAIM NAME	GRANT #	RECORDING DATE	EXPIRY* DATE
ASH 11-20	YA94085-4094	DEC. 13/85	DEC. 13/87

\* includes assessment credits filed with this report

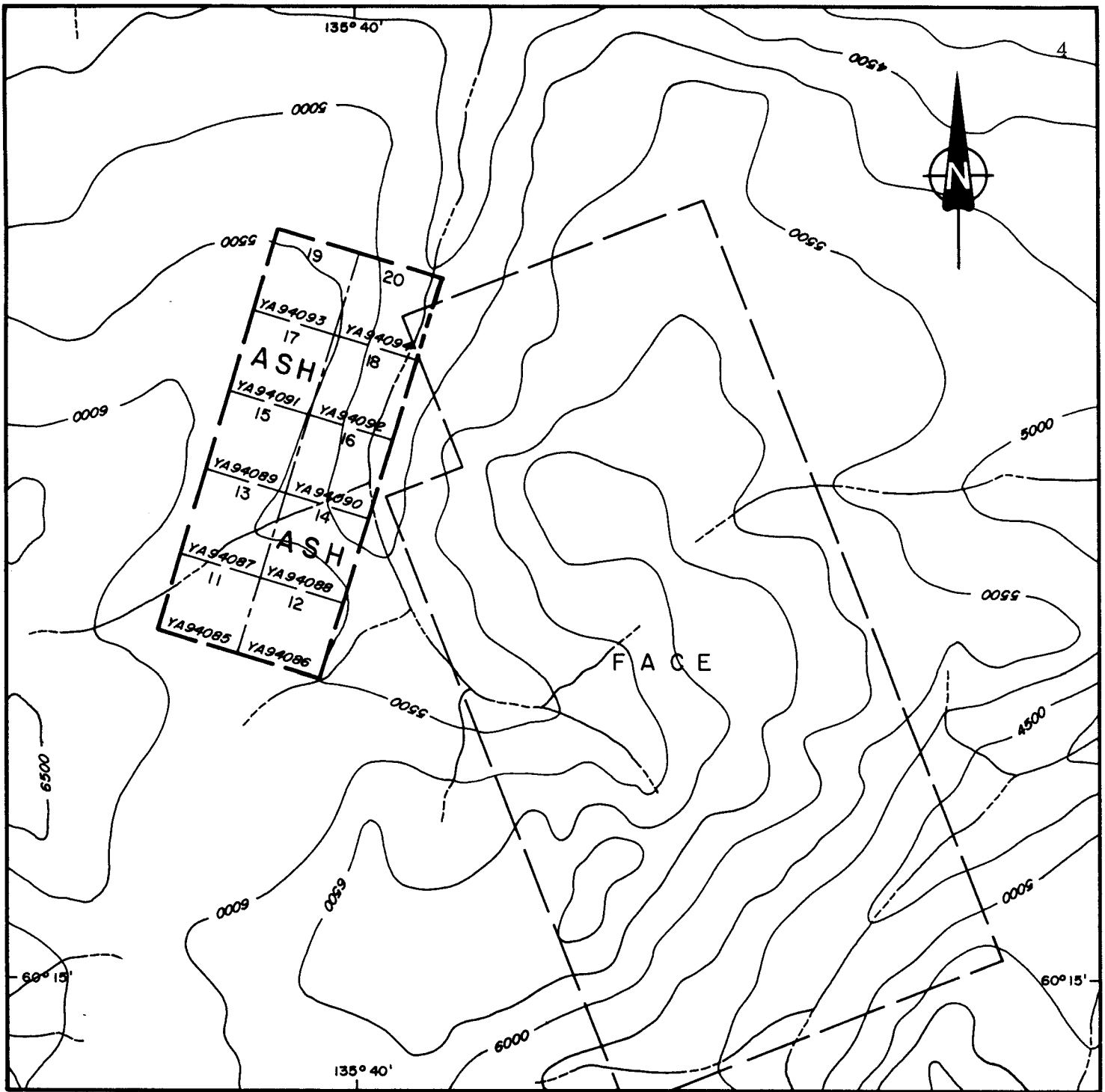
### PERSONNEL

Mapping and sampling was carried out on the ASH 11-20 claims on September 21, 1986 by A. Doherty and H. Keyser of Aurum Geological Consultants Inc. Data compilation and report preparation were completed by A. Doherty. Transport to the property was by a Frontier 500 D helicopter based in the Wheaton River.

### CLIMATE, TOPOGRAPHY AND VEGETATION

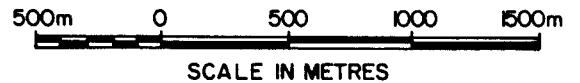
The climate in southwestern Yukon is variable with moderate dry summers and long cold winters. Precipitation is light (40 cm annually), with moderate snowfalls occurring during the winter months. The area is susceptible to periodic high winds from moist Pacific systems rising over the Coast Mountains. The exploration season extends from mid-May through to September-October. Limited work can be completed in the winter months during mild weather.

The ASH claims cover a flat highland area on the west side of a creek draining into the Rose River. Elevations on the claim block range from 1600 m to 1800 m, and the entire claim block is above tree-line. Vegetation is typically alpine with sparse mosses, grasses and alpine flowers giving way to lichen covered felsenmeer at the highest elevations.



**LEGEND**

- claim boundary
- claim number
- tag number
- creeks
- elevation contour; interval 500 ft.



ASH 11 - 20 CLAIMS  
YA94085 - YA94096

CLAIM MAP

NOTE - ADAPTED FROM D.I.A.N.D. CLAIM  
MAP SHEET 105 D-5

Aurum Geological Consultants Inc.		March, 1987	
NTS 105 D/5	Drawn by RAD / NH	Scale 1:31,680	FIGURE 2



## GEOLOGY

### **Regional Geology**

The oldest exposed rocks in this area of southwestern Yukon are low grade schists and gneisses of the early Paleozoic Yukon Group which occur as large roof pendants within Cretaceous foliated and non foliated granitoid rocks of the Coast Crystalline Complex. To the east, flanking the Coast Plutonic Complex are low grade metamorphosed sediments and volcanics of the Mesozoic Whitehorse-Nechako Trough. The regional geology is described by Wheeler (1961) and Lambert (1974).

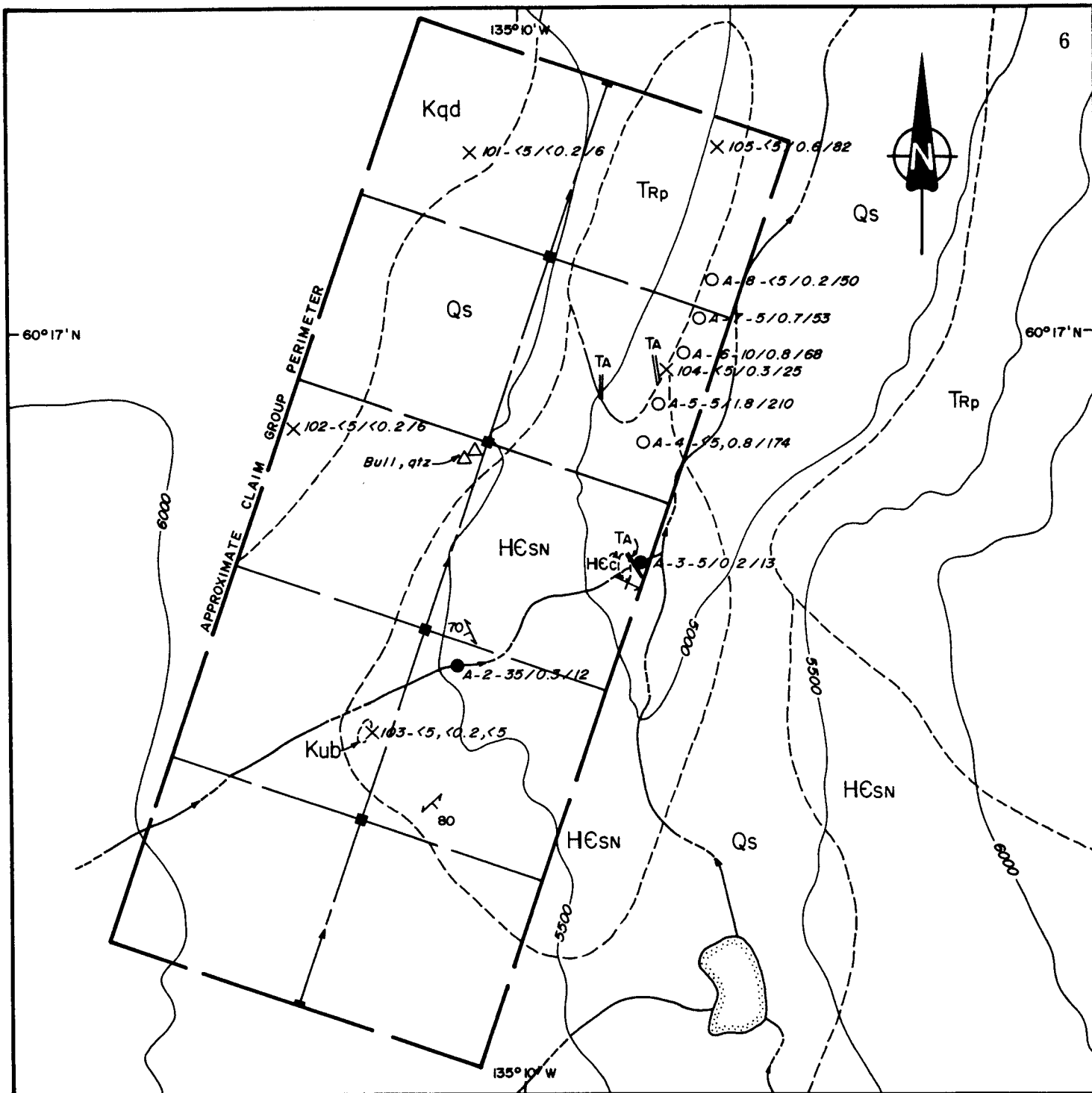
Intruding and locally overlying all older rocks is a suite of Tertiary (Eocene) felsic to intermediate volcanics of the Skukum Group, which were deposited from two volcanic centres at Bennett Lake and Mt. Skukum.

### **Property Geology**

The geology of the ASH 11-20 claims is shown in Figure 3. The claims are underlain by Hadrynian to Cambrian schist and gneiss with minor crystalline limestone (map units HCsn and HCc) on the southeastern side, poorly exposed Cretaceous granodiorite (map unit Kgd) on the west side, and Tertiary rhyolite porphyry with minor andesite dykes (map units Trp and Ta) on the northeast corner of the property. A small 10m by 5m area of coarse grained hornblendite (map unit Kub) intrudes the gneiss unit on the ASH 13 claim. The hornblendite weathers dark brown, displays spherical weathering features and contains abundant pyrite and pyrrhotite. Quartz veins within the schist and gneiss units are common. Large areas of the property are overburden covered or consist of areas of angular felsenmeer.

## GEOCHEMISTRY

A total of twelve samples were collected on the property, this included 2 stream sediment samples, 5 talus fine samples collected below the Tertiary rhyolite porphyry, and 5 rock chip samples. All samples were shipped to Bondar-Clegg and Company Ltd. and analyzed for gold, silver and lead. The lower detection limits, extraction methods, size fraction, and analytical method used for each element are listed in the lab report in Appendix 1. Sample Numbers and geochemical results are plotted on the geology map Figure 3.



**LEGEND**

**LITHOLOGIES**

- RECENT**  
 [Qs] surficial deposits
- TERTIARY**  
 [TA] andesite dykes  
 [TRp] rhyolite porphyry
- CRETACEOUS**  
 [Kqd] granodiorite  
 [Kub] pyroxenite
- HADRYNIAN & CAMBRIAN**  
 [HCSN] schist, gneiss  
 [HEC] crystalline limestone

**SYMBOLS**

- geological contacts; defined, assumed
- gneissic foliation
- stream sediment sample
- soil sample
- rock sample  
Au ppb, Ag ppm, Pb ppm
- float
- claim post, location and location
- creek
- lake
- elevation contour, interval 500ft



ASH 11-20 CLAIMS YA94085 - YA94094			
GEOLOGY & GEOCHEMISTRY			
Aurum Geological Consultants Inc.		March, 1987	
NTS 105D/5	Drawn by RAD / NH	Scale 1:12,500	FIGURE 3

One stream silt, sample A-1 returned 35 ppb Au, and a talus fine sample A-5 returned 1.8ppm Ag. Lead values are from <5ppm to 210 ppm. Other values for gold and silver are at detection levels.

### CONCLUSIONS

The ASH claims are underlain by Hadrynian to Cambrian schists and gneisses, intruded by Cretaceous granodiorite and Tertiary rhyolite porphyry. Rock, talus fine, and silt samples analyses for gold, silver and lead have returned low order anomalies in gold (35 ppb), silver (1.8 ppm), and lead (210 ppm). The only quartz veining located on the property consisted of metamorphic veins in the schist and gneiss unit.

### RECOMMENDATIONS

It is recommended that only limited follow up, work be undertaken on the ASH 11-20 claims. One more day of prospecting and soil and rock sampling could be considered to insure that all areas of the property have been well covered.

Samples of the hornblende should be analyzed for possible Platinum potential.

Additional work could be considered if promising results were indicated on adjoining properties, such as the Face claims currently owned by Noranda Exploration of Canada Ltd.

REFERENCES

- Lambert, M.B.. 1974: The Bennett Lake Cauldron  
Subsidence Complex, British  
Columbia and Yukon Territory  
G.S.C. Bulletin 227.
- Wheeler, J.O., 1961: Whitehorse Map Area, Yukon  
Territory, 105D; G.S.C. Memoir  
312.

STATEMENT OF COSTSAURUM PERSONNEL

R. A. Doherty	Sept. 21,	1 day @ \$250/day	\$250.00
H. Keyser	Sept. 21,	1 day @ \$250/day	250.00

TRANSPORTATION

Frontier Hughes 500D,	0.6hrs @ \$530/hr.	318.00
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GEOCHEMICAL ANALYSES

Bondar-Clegg and Company Ltd., 12 samples analyzed for Au,Ag and Pb.	130.00
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SUPPLIES AND EQUIPMENT

Meals and accommodation	116.00
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REPORT PREPARATION

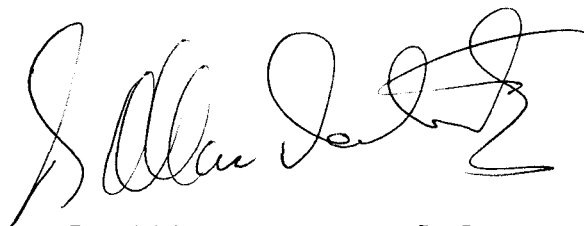
Drafting,typing & reprographics	100.00
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TOTAL	<u>\$ 1164.00</u>
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STATEMENT OF QUALIFICATIONS

I, R. Allan Doherty, hereby certify that:

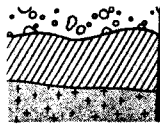
1. I am a geologist with AURUM GEOLOGICAL CONSULTANTS INC of 604-675 West Hastings Street, Vancouver, B.C.
2. I am a graduate of the University of New Brunswick with a degree in Geology (Honours B.Sc. 1977) and have completed three years of graduate studies at Memorial University. I have been involved in mineral exploration and Government Survey mapping in the Yukon, British Columbia, Northwest Territories and Newfoundland & Labrador since 1975.
3. I have no interest or ownership in the claims discussed in this report nor do I expect to obtain any.
4. I am the author of this report on the ASH 11-20 Claims and I participated in the field work described in this report.



R. Allan Doherty, B.Sc.  
March 16, 1987.

APPENDIX 1





REPORT: 126-4993 ( COMPLETE )

REFERENCE INFO:

CLIENT: AURUM GEOLOGICAL CONSULTANTS INC.  
 PROJECT: 6411

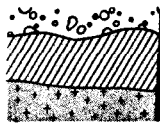
SUBMITTED BY: A DOHERTY  
 DATE PRINTED: 1-OCT-86

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Pb Lead	12	2 PPM	HNO3-HCL HOT EXTR	Atomic Absorption
2	Ag Silver	12	0.2 PPM	HNO3-HCL HOT EXTR	Atomic Absorption
3	Au Gold - Fire Assay	12	5 PPB	FIRE-ASSAY	Fire Assay AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
S SOILS	7	1 -80	7	DRY, SEIVE -80	7
R ROCK OR BED ROCK	5	2 -150	5	CRUSH,PULVERIZE -150	6

REPORT COPIES TO: AURUM GEOLOGICAL  
 MR. ALLAN DOHERTY

INVOICE TO: AURUM GEOLOGICAL



REPORT: 126-4893

PROJECT: 6411

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Ag PPM	Au PPB
S1 A-2		12	0.3	35
S1 A-3		13	0.2	5
S1 A-4		174	0.8	<5
S1 A-5		210	1.8	5
S1 A-6		68	0.8	10
S1 A-7		53	0.7	5
S1 A-8		50	0.2	<5
R2 641101		6	<0.2	<5
R2 641102		6	<0.2	<5
R2 641103		<2	<0.2	<5
R2 641104		25	0.3	<5
R2 641105		82	0.6	<5