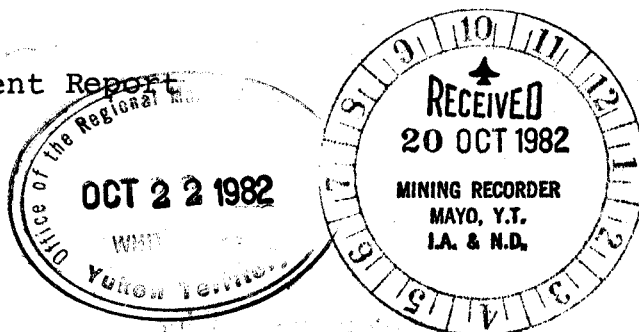


1982 Geochemical Assessment Report



TITLE Hess River Property

CLAIMS FUN 1-25

COMMODITY Pb-Zn

LOCATION-Area MacMillan Pass, 180 kilometres northeast of Ross River

-Coordinates Latitude N 63°15'
Longitude 130°20'

-NTS 105 0/1

BY F.R. Harris and N. Humphreys

FOR AMAX OF CANADA LIMITED

WORK PERIOD August 12-18, 1982

AMAX VANCOUVER OFFICE

091376

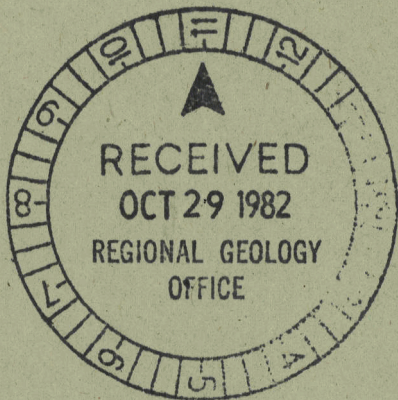
This report has been examined by
the Evaluation Unit
of the Yukon Quartz
Act and is hereby certified
to be correct in all respects
of \$ 3125.

P. Watson

Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

INDIAN AND NORTHERN
AFFAIRS
RECEIVED

82 OCT 29 A 9: 47



‡
NNREB WHSE

LAND MAYO

29 OCT82

GEOLOGY SECTION
P. WATSON

AMOUNT REQUIRED FOR FUN CLAIMS REPORT IS 3125.00

TIM
MMD
‡
NNREB WHSE

LAND MAYO

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- Appendix I - Statement of Costs
- II - Statement of Qualifications
- III - Analytical Procedures, Analytical Results

Illustrations

- Figure 1 - Location Map-----1:250,000-----after page 3
- 2 - Geochemical Map-----1:10,000-----in pocket

SUMMARY

The FUN property consists of 25 claims located in the MacMillan Pass area of the east-central Yukon. In August, 1982, 218 soil samples and four stream sediment samples were collected at 50 metre spacing reconnaissance soil lines. The samples were analysed for Pb, Zn, Cu, Ag, Ba, Fe and Mn at Rossbacher Laboratory, Burnaby, B.C.

CONCLUSIONS

1) Areas anomalous in Pb, Zn, Cu and Ag are elongated parallel to the underlying sedimentary strata, suggesting the presence of "stratabound" sulphide mineralization.

2) There is a probable correlation between a Cu-Zn anomaly and a narrow zone of pyrite in graphitic shale near the baseline on line 16W.

3) Other soil anomalies are not related to any known mineralization.

RECOMMENDATIONS

Detailed prospecting of the anomalous area is recommended.

Anomalies that are open should be closed off by extension of the appropriate soil lines.

INTRODUCTION

Location and Access

The 25 FAN claims are located in the MacMillan Pass area of the east-central Yukon, three kilometres north of the Hudson Bay airstrip on the North Canol Road (see Figure 1). Work was done from a base camp at the airstrip with access to the claims supplied by helicopter.

Topography and Vegetation

The claims are located in a moderately rugged area with mountain peaks rising to 2,080 metres. Maximum relief is 650 metres. Outcrop is found mainly on the ridges and talus is abundant along most of the slopes.

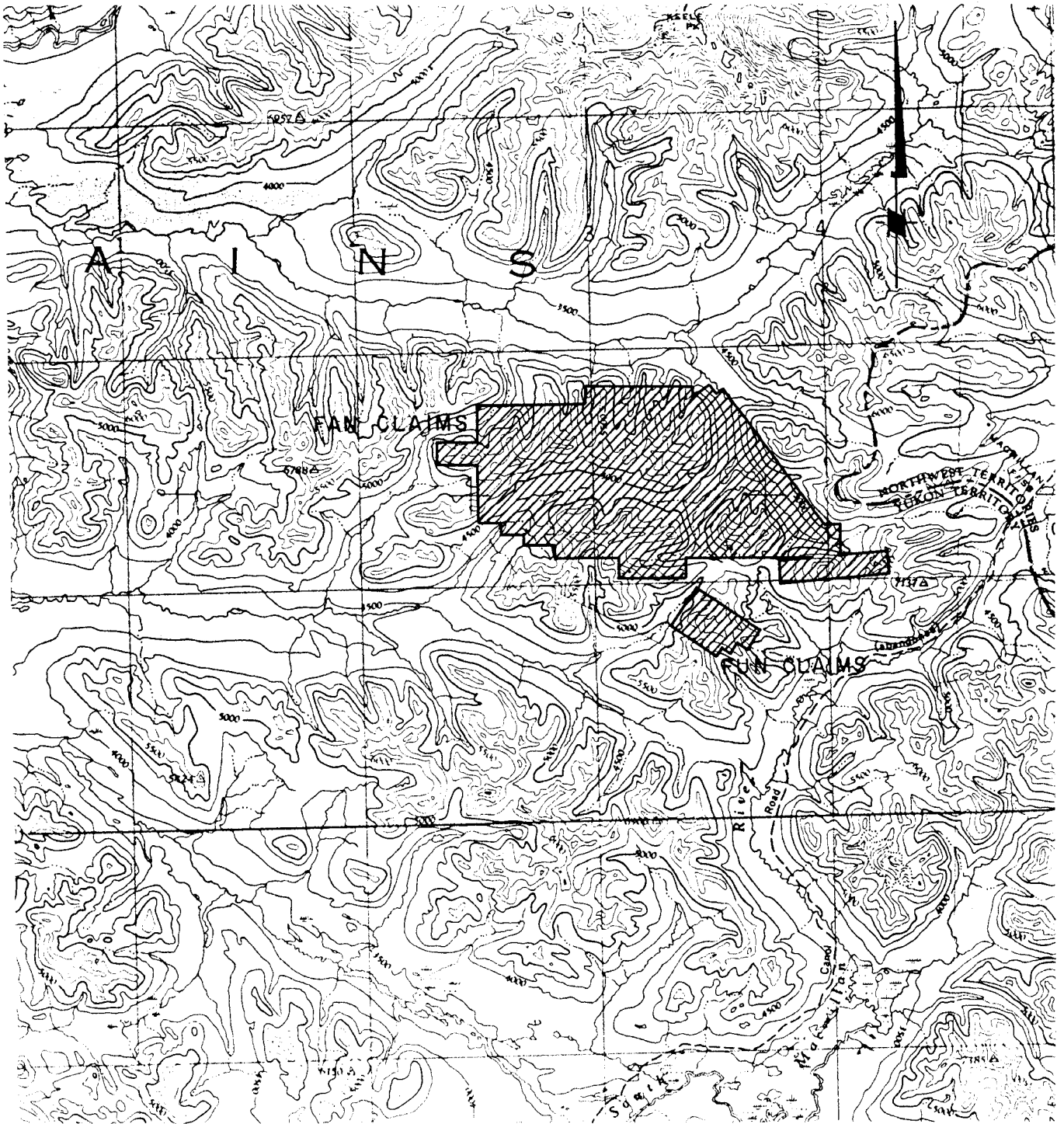
The claims are mainly above tree-line with only minor amounts of bush in the valley bottoms.

Claims Data

A list of the 25 FUN claims with grant numbers and anniversary dates is presented below.

<u>Claim Name</u>	<u>Grant Numbers</u>	<u>Expiry Date</u>
FAN 1-25	YA76037-YA76061	December 5, 1983*

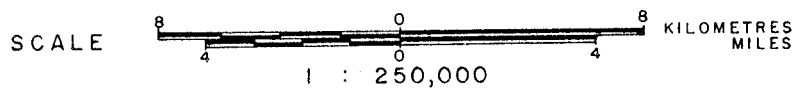
*following application and acceptance of the assessment work described in this report.



AMAX OF CANADA LIMITED

HESS RIVER PROPERTY
 FAN AND FUN CLAIMS
 MAYO MINING DISTRICT — YUKON TERRITORY

LOCATION MAP



GEOCHEMICAL SURVEY

Procedure

From August 12-18, 1982, a flagged and picketed grid was put in over part of the claim block. The grid consists of a 2,200 metre - long northwest-striking base line with cross lines 200 metres apart. Soil samples were collected every 50 metres on the cross lines. Two reconnaissance soil lines were also completed with samples every 100 metres. A total of 218 soil samples and four stream sediment samples were collected.

Samples were collected from the B soil horizon where possible; however, soil horizons are poorly developed and many samples were from talus fines.

Samples were analysed at Rossbacher Laboratory in Burnaby, B.C. for Pb, Zn, Cu, Ag, Ba, Fe and Mn. Analytical methods are described in Appendix III.

Results

Sample locations are plotted on Figure 2. Analytical results for Pb, Zn, Ag, Cu and Ba are listed in Appendix III.

Interpretation of Results

Lead

The highest lead values are in the northwestern quadrant of the grid. Lines 18-22W at 150-250N contains values from 106 to 154 ppm Pb. Line 12W has two consecutive values of 100 and 200 ppm Pb. No known mineralization is associated with these anomalies.

Zinc

Three anomalous areas of zinc occur on the grid.

- A) Values up to 2,300 ppm Zn occur in soils between lines 16W and 22W from 50S to 150N.
- B) Values up to 1,600 ppm Zn occur in a 50 metre wide zone at 300N between lines 18W and 8W.
- C) Values up to 840 ppm Zn occur on line 2W from 100 to 250 metres south.

A narrow zone of pyrite and graphitic shale is exposed near the baseline at 16W and may account for anomaly A. Anomaly B is parallel to the general strike of the underlying sedimentary rocks but is not associated with any known mineralization. Mineralization has not been located at anomaly C.

Copper

Three areas on the grid contain soils anomalous in copper.

- A) From 50-150N and from 16-22W, soils contain up to 600 ppm Cu.
- B) From 300-500N on lines 16-18W, soils contain up to 454 ppm Cu.
- C) From 100-250S on line 2W, soils contain up to 444 ppm Cu.

Anomaly A is related to the pyrite zone discussed under zinc whereas the other two anomalous areas are not related to any known mineralization.

Silver

A large area anomalous in silver extends from 14W

to 22W and from 150S to 400N. Soils in this area contain up to 5.4 ppm Ag. The anomaly is not related to any known mineralization.

With the exception of one or two anomalous values (see Appendix III), analytical results for Mn, Fe and Ba were all below the established local anomalous threshold.

F. R. Harris

F.R. Harris

APPENDIX I
STATEMENT OF COSTS

Statement of Costs

Geochemical Analyses - Rossbacher Laboratory
2225 S. Springer Avenue, Burnaby, B.C.

Invoice No. 2245

189 Samples Cu, Fe, Mn, Ag, Zn, Pb, Ba \$ 1,159.80

Helicopter - Quasar Helicopter

August 14, 1982 Invoice No. 82535 (11465) 603.00

August 16, 1982 Invoice No. 82535 (11467) 268.00

871.00

Personnel and Salaries

F.R. Harris - 601-535 Thurlow Street, Vancouver, B.C.
Senior Geologist; 2.5 days @ \$211.20 528.00

N.D. Humphreys - 131 LaLoche Court, Saskatoon, Sask.
Geologist; 3 days @ \$104.35 313.05

R.J. Boase - 609 E. Carisbrooke Rd., N. Vancouver, B.C.
Junior Assistant; 1 day @ \$63.52 63.52

P.R. Elkins - 1241 Barlynn Crescent, N. Vancouver, B.C.
Junior Assistant; 6.5 days @ \$63.52 412.88

A.M. Neill - 223 Keith Road, N. Vancouver, B.C.
Cook; 3.5 days @ \$79.39 277.86

Room and Board

\$25.00 @ 16.5 412.50

Drafting and Report Preparation

500.00

\$4,538.61
=====



Quasar Helicopters Ltd

Box 565,
Abbotsford International Airport
Abbotsford, B.C.
V2S 5Z5
Phone - (604) 853-1215 Telex - 04-363565

INVOICE

Invoice Number
82535

Invoice Date
21 Sept 82

Customer Number
010015000

Customer Order Number
57025
57028

Amax Exploration Inc.
601 - 535 Thurlow St.
Vancouver, B.C.
V6E 3L6



Helicopter Type	Registration	ATC Area	Period/Order Date
Hughes 500C	C-GWQR	10.3	2 Aug - 13 Sept 82

Description

Amount

Flying Hours:	149.4 @ \$335.	\$ ✓	50,049.00
	6.9* @ \$335.	✓	2,311.50
	<u>156.3</u>		
Crew Expenses:	as per attached	✓	78.00
Landing Fees:	as per attached	✓	15.60
Oil:	as per attached	✓	508.25

ADD, EXT, CORRECT			
APPROVED		APPROVED	
PROJECT	ACCOUNT	SUB CLASS	AMOUNT
57025	8207		7,336.50
57028	8207		27,719.85
57032	8201		7,906.00
			<u>52,962.35</u>

TOTAL

\$ ✓ 52,962.35

* 6.9 hours additional required to bring total contract hours up to minimum guarantee of 340 hours.

✓

CK. 2 33 6 7 OCT 14 1982



QUASAR AVIATION LTD

VANCOUVER

150 - 10451 SHELLBRIDGE WAY
RICHMOND, B.C. V6X 2W8
(604) 270-9696 Telex: 04-357633

CALGARY
460 McTAVISH ST. N.E.
CALGARY, ALTA. T2E 7G5
(403) 821-7182

No. **11467**

FLIGHT REPORT

Date: **16** **08** **82**
Day Month Year

A/C Regn.: **C-FWOR** **500C**

Pilot: 1: **W.E. Clifford** Empl. No.: **8001**

Pilot: 2: _____ Empl. No.: _____

Engr. 1: **11** Empl. No.: **8001**

Engr. 2: _____ Empl. No.: _____

Customer Name and Address

Amey Namah Eyebrow
601-535 Thurlow
Vancouver BC. V6E-3L6

Authorization No.:

57025

Customer No.: **010015000** Contract No.:

010015001

ATC Area:

103

Contract Type:

M

H - Hourly D - Daily Min.
M - Monthly O - Other

Location	Operation	Time-Off	Time-Down	Flying Hours
<i>Mac Millan Pass YT</i>				
	<i>Crew Out</i>	<i>08:35</i>	<i>09:00</i>	<i>.4</i>
	<i>Crew in</i>	<i>17:25</i>	<i>17:50</i>	<i>.4</i>
	<i>Whole crew</i>			
	<i>Free</i>			

FUEL & OIL SUPPLIED BY

Quasar Charterer Litre Gal.
litres gal. @ \$ _____ = \$ _____

Total Revenue Hours: **08**
Non-Revenue Hours: _____

By the chartering of the noted services or the signing of this Flight Report, the Charterer acknowledges that all conditions associated with this charter shall be as set out in the Tariff filed with the A.T.C., which is available for examination at the office of Quasar Aviation Ltd.

Item	Extra Charge or Adjust.	Amount	Remarks:

Charterer's Signature: *Fred Hani* Pilot's Signature: *W.E. Clifford*

Proj 25



QUASAR AVIATION LTD. TAX

VANCOUVER
 150 - 10451 SHELLBRIDGE WAY
 RICHMOND, B.C. V6X 2W8
 (604) 270-9696 Telex: 04-357633

RECEIVED
 CALGARY
 46 MCTAVISH ST. N.E.
 CALGARY, ALTA. T2E 7G5
 (403) 230-1901
 SEP 27 1982

№ 11465

FLIGHT REPORT

Date: **14** Day **08** Month **82** Year

A/C Regn.: **C-500R** **500C**

Pilot: 1. **W.E. Clifford** Empl. No.: **8001**

Pilot: 2: _____ Empl. No.: _____

Engr. 1: **"** Empl. No.: **8001**

Engr. 2: _____ Empl. No.: _____

Customer Name and Address
Amoy Travel Agency
601-535 The Vancouver Office
Vancouver B.C. V6E-3L6

Authorization No.: **57025**

Customer No.: **010015001** Contract No.: **010015001** ATC Area: **103**

Contract Type: **M** H - Hourly D - Daily Min.
 M - Monthly O - Other

Location	Operation	Time-Off	Time-Down	Flying Hours
<i>MacMillan Pass YT</i>				
	<i>Crew Out</i>	<i>08:15</i>	<i>08:55</i>	<i>.7</i>
	<i>Crew ch</i>	<i>15:50</i>	<i>16:40</i>	<i>.8</i>
	<i>" "</i>	<i>17:25</i>	<i>17:40</i>	<i>.3</i>
	<i>Whole crew.</i>			
<i>Food</i>				
<i>fuel Harris</i>				

FUEL & OIL APPLIED BY: Quasar Charterer Litre Gal.
 litres gal. @ \$ _____ = \$ _____

Total Revenue Hours: **1.8**
 Non-Revenue Hours: _____

Item	Extra Charge or Adjust.	Amount	Remarks:

By the chartering of the noted services or the signing of this Flight Report, the Charterer acknowledges that all conditions associated with this charter shall be as set out in the Tariff filed with the A.T.C., which is available for examination at the office of Quasar Aviation Ltd.

Charterer's Signature: *Jud R. Harris* Pilot's Signature: *W.E. Clifford*
 Proj 25

APPENDIX II

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

F.R. Harris

Education

University of Western Ontario - B.Sc. Honours Geology 1961
University of New Brunswick - M.Sc. Geology 1964

Experience

May 60 - May 64 - Summer employment while attending university
with Geological Survey of Canada and the
New Brunswick Department of Lands & Mines

May 64 - June 70 - Ontario Department of Mines based in Thunder Bay.
Party Chief - mapping and writing final reports
on areas ranging from 100 to 150 square miles

July 70 - Amax of Canada Limited - Staff Geologist
Plans, organizes and supervises small property
and prospect evaluation programs or assists with
the planning and management of large property
exploration programs utilizing all exploration
techniques.
Selects, applies and interprets the most
effective exploration approaches and techniques
for any type of exploration survey.
1982 - New Title - Senior Geologist

STATEMENT OF QUALIFICATIONS

NAME R.J. Boase

ADDRESS 609 E. Carisbrooke Road,
North Vancouver, B.C.
V7N 1N8

EDUCATION First year sciences at Capilano College - B -
in Geology 110

EXPERIENCE 1979 - Texasgulf Inc.
1980 - Esso Minerals
1981 - Newmont Mines
1982 - AMAX of Canada Limited
Field Assistant

STATEMENT OF QUALIFICATIONS

NAME P.R. Elkins

ADDRESS 1241 Barlynn Crescent,
North Vancouver, B.C.
V7J 1P5

EDUCATION Capilano College - 1980/81
First Year Sciences:
Courses in Physics, Calculus, Chemistry, Computer
Science and English
Second Year Sciences:
Courses in Linear Algebra, Calculus IV,
Thermodynamic Physics, Inorganic Chemistry,
Physical Geography

EXPERIENCE May 1 - August 29, 1981 - Campbell Resources Inc.
Geologist's helper

Summer 1980 - United Metal Fabricators
Production Worker

December 1980 - May 1982 - Sixth Field Squadron R.C.E.
Sapper (Private)

Summer 1982 - AMAX of Canada Limited
Geologist's Assistant

STATEMENT OF QUALIFICATIONS

NAME N.D. Humphreys

ADDRESS 131 LaLoche Crescent,
Saskatoon, Saskatchewan
S7K 4R8

EDUCATION B.Sc. University of Saskatchewan - 1976
M.Sc. Queens University - 1982

EXPERIENCE 1976-1978 - Geological Assistant - Cominco
1979-1981 - Geologist - B.P. Minerals
1982 - Geologist - AMAX of Canada Limited

APPENDIX III

ANALYTICAL PROCEDURES, ANALYTICAL RESULTS

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

Jan. 1982

(1)

GEOCHEMICAL ANALYTICAL METHODS CURRENTLY IN USE AT ROSSBACHER LABORATORY LTD.

A. SAMPLE PREPARATION

1. *Geochem. Soil and Silt:* Samples are dried, and sifted to minus 80 Mesh, through stainless steel, or nylon screens.
2. *Geochem. Rock:* Samples are dried, crushed to minus $\frac{1}{4}$ inch, split, and pulverized to minus 100 mesh.

B. METHODS OF ANALYSIS

1. *Multi-element:* (Mo, Cu, Ni, Co, Mn, Fe, Ag, Zn, Pb, Cd):
0.5 Gram sample is digested for four hours with a 15:85 mixture of Nitric-Perchloric acid. The resulting extract is analyzed by Atomic Absorption spectroscopy, using Background Correction where appropriate.
2. *Antimony:*
0.50 Gram sample is fused with Ammonium Iodide and dissolved. The resulting solution is extracted into TOPO/MIBK and analyzed by Atomic Absorption spectroscopy.
3. *Arsenic:*
0.25 Gram sample is digested with Nitric-Perchloric acid. Arsenic from the solution is converted to arsine, which in turn reacts with silver D.D.C. The resulting solution is analyzed by colorimetry.
4. *Barium:*
0.50 Gram sample is repeatedly digested with HClO_4 - HNO_3 and HF. The solution is analyzed by Atomic Absorption spectroscopy.
5. *Biogeochemical:*
Samples are dried, and ashed at 550°C . and the resulting ash analyzed as in *1, multi-element analysis.
6. *Bismuth:*
0.50 Gram sample is digested with Nitric acid. The solution is analyzed by Atomic Absorption spectroscopy.
7. *Chromium:*
0.25 Gram sample is fused with Sodium Peroxide. The solution is analyzed by Atomic Absorption spectroscopy.

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

(2)

METHOD OF ANALYSIS (CONT.)

8. Fluorine: 0.50 Gram sample is fused with a Carbonate Flux, and dissolved.
The resulting solution is analyzed for Fluorine by use of an Ion Selective Electrode.
9. Gold: 10.0 Gram sample is roasted at 550°C. and dissolved in Aqua Regia. The resulting solution is subjected to a Methylisobutyl Ketone extraction, which extract is analyzed for Gold using Atomic Absorption spectroscopy.
10. Mercury: 1.00 Gram sample is digested with Nitric and Sulfuric acids. The solution is analyzed by Atomic Absorption spectroscopy, using a cold vapor generation technique.
11. Partial Extraction and Fe/Mn oxides: 0.50 Gram sample is extracted using one of the following: Hot or cold 0.5 N. HCL, 2.5% E.D.T.A., Ammonium Citrate, or other selected organic acids. The solution is analyzed by use of Atomic Absorption spectroscopy.
12. pH: An aqueous suspension of soil, or silt is prepared, and its pH is measured by use of a pH meter.
13. Rapid Silicate Analysis: 0.10 Gram sample is fused with Lithium Metaborate, and dissolved in HNO₃.
The solution is analyzed by Atomic Absorption for SiO₂, Al₂O₃, Fe₂O₃, MgO, CaO, Na₂O, K₂O, TiO₂, P₂O₅, and MnO.
14. Tin: 0.50 Gram sample is sublimated by fusion with Ammonium Iodide, and dissolved.
The resulting solution is extracted into TOPO/MIBK and analyzed by Atomic Absorption spectroscopy.
15. Tungsten: 1.00 Gram sample is sintered with a carbonate flux, and dissolved.
The resulting extract is analyzed colorimetrically, after reduction with Stannous Chloride, by use of Potassium Thiocyanate.

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82258-17

INVOICE NO.

DATE ANALYSED SEPT. 29/82

PROJECT 025

TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba				No.
01														01
02														02
03														03
04														04
05														05
06														06
07														07
08														08
09														09
10														10
11														11
12														12
13														13
14	1250			28	80	2.6	0.4	78	22	1200				14
15	1251			66	70	3.7	0.8	206	50	-				15
16	1252			58	140	4.3	0.8	186	64	3860				16
17	1253			22	30	1.5	1.2	52	56	-				17
18	1254			20	20	0.8	0.4	30	10	1300				18
19	82 HKS 1255			20	40	1.7	0.4	72	24	-				19
20	STD A			22	400	2.5	0.2	40	18	1640				20
21	82 HKS 1256			26	180	2.9	0.2	72	20	3440				21
22	1257			30	70	1.9	0.6	38	20	-				22
23	1258			14	30	1.0	0.4	32	10	1740				23
24	1259			30	60	2.1	0.6	50	20	-				24
25	1260			116	400	4.6	0.6	240	24	2480				25
26	A 1261			280	720	3.4	1.8	206	34	3840				26
27	S 1262			66	380	3.2	0.6	138	36	2460				27
28	1263			34	90	3.5	4.0	58	98	-				28
29	1264			58	110	2.4	5.6	122	106	5500				29
30	82 HKS 1265			24	80	1.7	0.4	128	38	-				30
31	1266			24	30	2.2	0.2	74	34	1980				31
32	1267			24	60	2.8	0.4	56	24	-				32
33														33
34	13													34
35														35
36														36
37														37
38														38
39														39
40														40

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. BRIMLEY AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82258-2

INVOICE NO.

DATE ANALYSED SEPT. 24/82

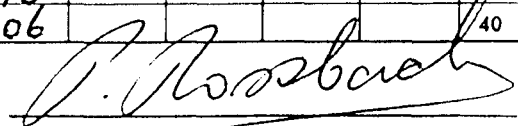
TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

PROJECT 025

No.	Sample	pH	Mo	Cu	Mn	% Fe	Ag	Zn	Pb	Ba		No.
01	82 HKS 1568			104	400	4.3	1.4	282	64	4300		01
02	1569			62	400	5.6	0.2	256	28	—		02
03	1570			10	40	0.9	0.2	30	8	2460		03
04	1571			18	60	1.8	0.6	66	32	—		04
05	1572			28	70	1.8	0.2	50	8	1320		05
06	1573			72	130	6.9	0.4	110	24	—		06
07	1574			66	170	7.3	0.4	142	36	1520		07
08	1575			2	50	0.5	0.2	24	4	—		08
09	1576			56	140	5.2	0.4	120	44	1340		09
10	82 HKS 1577			52	200	5.3	0.4	142	56	—		10
11	1578			50	150	5.4	0.2	72	34	2160		11
12	1579			44	120	4.2	0.6	66	34	—		12
13	1580			22	70	2.4	0.2	44	14	1540		13
14	1581			26	70	1.9	0.8	56	42	—		14
15	1582			32	60	2.1	0.6	88	36	4600		15
16	1583			70	110	3.1	0.4	72	18	—		16
17	1584			40	80	2.2	0.2	52	12	1880		17
18	T 1585			58	80	3.9	0.4	92	8	3520		18
19	82 HKT 1586			132	180	8.7	0.4	206	8	3120		19
20	STD D			128	80	1.0	4.0	530	102	1560		20
21	82 HKS 1587			154	80	6.0	0.8	132	32	—		21
22	1588			102	150	5.5	1.0	112	44	3620		22
23	1589			126	160	7.1	1.6	116	44	—		23
24	T 1590			72	130	6.0	0.8	102	16	3100		24
25	1591			56	50	1.7	0.6	132	46	3400		25
26	S 1592			80	440	5.4	1.0	84	42	5000		26
27	1593			40	50	2.6	0.6	44	30	—		27
28	T 1594			116	200	710.0	0.6	296	36	3980		28
29	S 1595			84	190	5.3	0.2	154	38	—		29
30	82 HKS 1596			82	620	6.6	0.8	212	54	5600		30
31	1597			72	460	5.2	1.4	70	46	—		31
32	1598			38	80	1.9	0.6	44	16	3720		32
33	1599			112	100	3.4	2.4	332	108	—		33
34	1600			122	180	3.5	2.0	410	86	>10,000		34
35	T 1601			108	100	2.3	1.2	324	36	>10,000		35
36	S 1602			52	200	2.8	0.4	152	36	4600		36
37	1603			36	70	2.0	0.6	68	36	—		37
38	1604			38	140	3.0	0.4	140	86	2400		38
39	82 HKS 1605			68	260	3.9	2.0	300	96	—		39
40	STD D			124	80	1.0	4.2	512	106	—		40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by



Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910

CERTIFICATE OF ANALYSIS

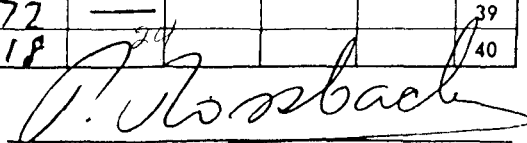
CERTIFICATE NO. 82258-3
INVOICE NO.
DATE ANALYSED SEPT. 24/82
PROJECT 025

TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba		No.
01	82 HKS 1606			84	200	3.2	4.4	314	98	5800		01
02	T 1607			80	50	2.1	2.4	292	52	8000		02
03	S 1608			128	140	3.4	5.4	480	58	7400		03
04	1609			40	50	1.8	0.8	168	30	—		04
05	1610			80	100	3.7	4.4	246	70	5800		05
06	1611			136	700	6.4	1.6	180	60	—		06
07	1612			32	110	1.4	0.4	136	10	2140		07
08	1613			254	2700	7100	2.2	1180	154	—		08
09	1614			118	760	5.3	1.6	238	20	5000		09
10	82 HKS 1615			86	70	3.5	1.4	88	36	—		10
11	T 1616			86	80	3.7	0.8	106	10	3380		11
12	1617			80	60	2.7	0.8	102	18	3700		12
13	S 1618			240	120	8.9	2.0	130	62	3320		13
14	T 1619			36	30	1.8	0.8	72	16	3280		14
15	S 1620			132	60	7.4	1.4	88	34	2760		15
16	1621			108	70	6.6	2.8	86	74	—		16
17	1622			50	40	3.8	1.0	62	54	2720		17
18	1623			52	40	2.8	2.4	62	32	—		18
19	82 HKS 1624			72	640	5.2	1.0	234	42	5000		19
20	STD E			78	300	2.8	0.8	190	18	1740		20
21	82 HKT 1625			40	400	8.0	0.8	90	12	2720		21
22	S 1626			58	200	3.1	1.8	82	78	3740		22
23	1627			72	280	2.6	0.8	128	48	—		23
24	1628			74	150	3.0	1.0	136	54	3480		24
25	1629			132	170	3.0	3.4	580	74	—		25
26	1630			110	120	2.9	1.8	180	52	3940		26
27	1631			182	500	5.4	2.2	344	54	—		27
28	1632			86	420	3.7	0.8	244	88	4400		28
29	1633			66	150	4.7	0.8	138	66	—		29
30	82 HKS 1634			88	580	6.6	1.0	214	92	2640		30
31	1635			78	380	5.0	1.0	294	100	—		31
32	1636			140	240	4.3	1.0	386	200	4200		32
33	1637			126	400	5.6	2.0	396	50	—		33
34	1638			106	360	4.4	0.8	112	36	4100		34
35	1639			266	740	8.8	2.2	218	50	—		35
36	1640			106	1000	7100	1.0	102	26	3760		36
37	1641			146	560	5.9	0.8	90	36	—		37
38	1642			116	440	5.3	3.2	140	70	3420		38
39	82 HKS 1643			174	50	7100	3.2	64	72	—		39
40	STD E			78	280	2.9	0.4	174	18	—		40

VALUES IN PPM UNLESS NOTED OTHERWISE.

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Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

225 S. STURGEON AVENUE,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910

CERTIFICATE OF ANALYSIS

TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

CERTIFICATE NO. 82258-4

INVOICE NO.

DATE ANALYSED SEPT. 24 '82

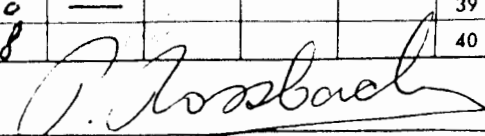
PROJECT 025

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba			No.
01	82 HRS 1644			128	80	>10.0	3.0	60	150	1120			01
02	1645			398	90	>10.0	4.6	92	86	—			02
03	1646			86	40	5.5	1.6	194	66	4000			03
04	1647			78	100	2.9	1.0	60	76	—			04
05	T 1648			24	120	1.9	0.2	40	24	880			05
06	S 1649			76	110	2.8	5.4	56	50	—			06
07	1650			94	50	3.8	1.8	40	54	2040			07
08	T 1651			112	260	2.2	0.8	126	48	5800			08
09	T 1652			94	260	2.5	0.8	308	14	4800			09
10	82 HRS 1653			440	500	9.1	4.4	130	44	—			10
11	1654			346	600	7.9	2.4	120	40	4900			11
12	1655			250	460	6.6	3.0	640	186	—			12
13	1656			116	150	3.7	2.8	106	66	4200			13
14	1657			132	70	3.2	2.4	66	76	—			14
15	1658			454	400	9.5	4.0	1600	66	5800			15
16	1659			182	620	4.7	2.6	146	66	—			16
17	1660			164	1300	7.7	2.0	150	112	5300			17
18	1661			52	240	3.4	0.8	146	50	—			18
19	82 HRS 1662			208	840	>10.0	2.4	156	58	7200			19
20	STD E			78	300	3.0	0.4	156	16	1700			20
21	82 HRS 1663			356	240	5.3	3.8	74	56	—			21
22	T 1664			448	150	2.9	0.8	78	20	4900			22
23	S 1665			124	1380	>10.0	2.0	560	116	—			23
24	1666			192	460	5.2	3.0	252	74	6000			24
25	T 1667			24	30	0.8	0.4	16	22	3740			25
26	S 1668			214	50	2.7	5.6	122	22	3500			26
27	1669			336	380	6.3	3.4	940	68	—			27
28	1670			600	360	8.7	5.0	1100	58	5000			28
29	1671			140	180	2.7	2.8	266	44	—			29
30	82 HRS 1672			22	60	0.6	0.6	22	20	4400			30
31	S 1673			254	760	8.5	2.8	260	56	—			31
32	1674			114	520	5.3	2.2	262	60	7100			32
33	1675			174	740	9.6	2.6	184	154	—			33
34	1676			98	140	3.7	3.6	82	150	4600			34
35	1677			126	580	6.1	2.4	170	106	—			35
36	1678			80	920	6.9	1.2	260	50	4600			36
37	1679			144	1240	10.0	1.8	362	82	—			37
38	1680			116	1100	7.7	2.0	296	204	4600			38
39	82 HRS 1681			10	30	0.4	1.2	24	30	—			39
40	STD E			86	300	2.9	0.4	170	18	—			40

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VALUES IN PPM UNLESS NOTED OTHERWISE.

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GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. STURGEON AVENUE,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82258-5

INVOICE NO.

DATE ANALYSED SEPT 24/82

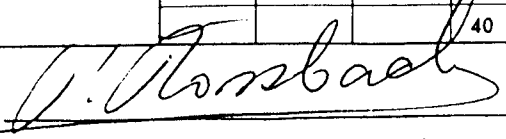
PROJECT 025

TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba				No.
01	82 HKT 1682			64	400	4.0	0.8	130	36	4200				01
02	S 1683			68	740	4.6	0.8	170	54	—				02
03	1684			148	1220	5.3	1.6	168	54	6200				03
04	1685			148	1040	7.0	1.6	236	62	—				04
05	1686			152	220	5.3	5.0	188	132	3520				05
06	1687			200	480	5.1	4.8	160	92	—				06
07	1688			146	160	3.0	3.4	102	60	3780				07
08	1689			130	660	4.8	1.4	262	58	—				08
09	1690			486	540	5.6	1.8	840	64	4200				09
10	82 HKS 1691			248	190	2.7	0.0	2300	62	—				10
11	1692			94	200	4.6	1.0	170	56	4500				11
12	1693			112	90	4.2	1.4	74	48	—				12
13	T 1694			20	30	0.7	0.6	58	14	1580				13
14	S 1695			72	70	3.1	1.6	84	42	—				14
15	1696			94	170	5.5	1.8	90	48	2800				15
16	1697			104	240	4.6	1.6	246	36	—				16
17	1698			54	20	2.5	1.4	68	98	2400				17
18	1699			78	40	3.5	1.2	70	42	—				18
19	82 HKS 1700			94	40	3.8	1.8	64	48	2640				19
20	B			148	120	0.8	1.0	172	94	1680				20
21	82 HKS 1701			142	160	8.1	1.8	82	54	—				21
22	1702			134	160	7.7	1.4	90	46	4000				22
23	1703			102	100	5.7	1.8	78	48	—				23
24	1704			100	80	3.7	1.2	72	36	2420				24
25	1705			84	70	3.9	1.4	72	36	—				25
26	1706			94	80	3.3	1.0	74	28	1720				26
27	82 HKS 1707			108	80	4.7	1.6	78	56	—				27
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VALUES IN PPM UNLESS NOTED OTHERWISE.

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GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. STURGEON AVENUE,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82258-32

INVOICE NO.

DATE ANALYSED OCT. 12/82

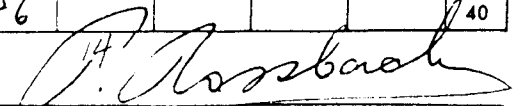
PROJECT 57025

TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Be				No.
01														01
02														02
03														03
04														04
05														05
06														06
07														07
08														08
09														09
10														10
11														11
12														12
13														13
14	867			204	420	6.2	1.6	620	56	-	7			14
15	868			136	380	5.4	1.8	482	44	4900				15
16	869			114	480	5.9	1.2	348	32	-				16
17	870			132	380	5.5	1.6	390	56	3800				17
18	871			120	420	6.2	1.8	404	58	-				18
19	82 HOS 872			56	150	4.5	2.2	138	92	2560				19
20	STD B			138	150	0.8	0.8	132	90	1580				20
21	82 HOS 873			78	400	5.6	2.2	308	84	-				21
22	874			90	1120	9.0	0.8	316	44	2720				22
23	875			84	200	3.3	1.0	264	22	-				23
24	876			78	280	3.9	1.6	286	104	2680				24
25	877			22	90	1.9	0.2	40	16	-				25
26	878			50	260	5.7	0.4	134	54	1780				26
27	879			154	500	6.8	1.2	364	60	-				27
28	880			38	170	3.9	0.2	58	36	1540				28
29	881			22	90	1.6	0.2	30	10	-				29
30	82 HOS 882			42	260	3.6	0.4	86	180	2000				30
31	883			72	340	4.2	0.4	150	48	-				31
32	884			42	1760	3.8	0.6	160	24	1860				32
33	885			146	240	4.8	2.8	560	94	-				33
34	L 886			198	740	4.8	1.6	530	52	4200				34
35	887			108	240	4.4	1.2	92	40	3360				35
36	S 888			22	40	0.9	0.2	16	2	1020				36
37	889			26	50	1.4	0.4	22	4	-				37
38	890			102	150	4.1	1.0	88	24	3900				38
39	82 HOS 891			144	150	5.2	1.6	106	48	-				39
40	STD B			140	130	0.8	1.0	136	86					40

VALUES IN PPM UNLESS NOTED OTHERWISE.

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Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

CERTIFICATE OF ANALYSIS

2225 S. SPRINGUE AVENUE,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910

CERTIFICATE NO. *82258-33*

INVOICE NO.

DATE ANALYSED *OCT. 12/82*

PROJECT *57025*

TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

No.	Sample	pH	Mo	Cu	Mn	% Fe	Ag	Zn	Pb	Ba				No.
01	<i>82 HOS 892</i>			<i>222</i>	<i>160</i>	<i>4.3</i>	<i>2.8</i>	<i>78</i>	<i>64</i>	<i>3140</i>				01
02	<i>893</i>			<i>126</i>	<i>420</i>	<i>4.1</i>	<i>1.4</i>	<i>288</i>	<i>46</i>	<i>-</i>				02
03	<i>894</i>			<i>110</i>	<i>130</i>	<i>2.3</i>	<i>1.4</i>	<i>80</i>	<i>50</i>	<i>2300</i>				03
04	<i>895</i>			<i>136</i>	<i>280</i>	<i>3.6</i>	<i>1.8</i>	<i>176</i>	<i>44</i>	<i>-</i>				04
05	<i>896</i>			<i>18</i>	<i>20</i>	<i>0.8</i>	<i>0.6</i>	<i>6</i>	<i>30</i>	<i>880</i>				05
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VALUES IN PPM UNLESS NOTED OTHERWISE.

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A. Rossbach



S Y M B O L S

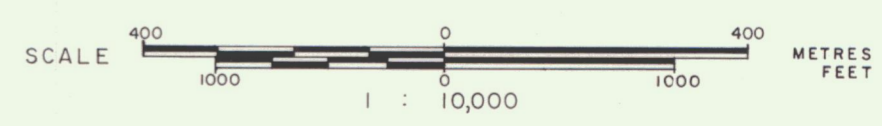
- 82HK1267 Soil
 - 82HO887 Silt
 - ⊕ 82HK1652 Rock chip
 - ⊠ Claim post, claim location line.
 - - - Claim boundary.
 - ~ Stream.
 - 2000 Topographic contour (contour interval 20 metres).
- } sample site, sample number.
(for results see APPENDIX)

AMAX OF CANADA LIMITED

HESS RIVER PROPERTY
FUN CLAIMS
 NAHANNI MINING DISTRICT - YUKON TERRITORY

GEOCHEMICAL MAP

091376



To accompany 1982 Assessment Report by: F. R. Harris.

Fred Harris Oct 15, 1982
 Vancouver H. P.