

1982 Geochemical Assessment Report



TITLE	Hess River Property
CLAIMS	FAN 3-14, 19-48 489, 500-513
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 & 8
BY	F.R. Harris
FOR	AMAX OF CANADA LIMITED
WORK PERIOD	August, September, 1982



AMAX VANCOUVER OFFICE

091395

Table of Contents

SUMMARY-----	1
CONCLUSIONS	
South Fan Grid-----	2
North Fan Grid-----	2
RECOMMENDATIONS-----	3
INTRODUCTION	
Location and Access-----	4
Topography and Vegetation-----	4
Claims Data-----	4
GEOCHEMICAL SURVEY	
Procedure-----	5
Results-----	5
INTERPRETATION OF RESULTS	
South Fan Grid-----	6
North Fan Grid-----	7

Appendices

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

Illustrations

- Figure 1 - Location Map-----1:250,000---after page 4
- 2 - Claim Map-----1:31,680---in pocket
- 3 - Geochemical Map-Fan North Grid-1:10,000---in pocket
- 4 - Geochemical Map-Fan South Grid-1:10,000---after page 6

SUMMARY

The 477 Fan claims are located in the MacMillan Pass area of east-central Yukon. During August-September, 1982, a total of 1,247 soil samples were collected on two separate grids, the north Fan grid comprising 867 samples and the south Fan grid comprising 380 samples. All samples were analyzed for Cu, Mn, Fe, Ag, Pb, Zn and Ba at the Rossbacher Laboratory, Burnaby, B.C.

CONCLUSIONS

South Fan Grid

Lead, barium and silver soil anomalies are mainly underlain by Hadrynian phyllite. Zinc is only weakly anomalous. Copper anomalies are associated with a pyritic volcanic breccia at the base of the Earn Group.

North Fan Grid

Lead, zinc, barium and silver soil anomalies are mainly underlain by either the basal baritic unit of the Earn Group or Road River fine-grained clastic rocks. Copper soil anomalies appear to be randomly distributed over Lower Earn and Road River stratigraphy.

Most soil anomalies show a strong orientation parallel to bedding.

RECOMMENDATIONS

All soil anomalies should be prospected in more detail.

Open soil anomalies should be closed off by extending the soil grids.

The northern soil grid should be extended to the south to cover favourable Lower Earn stratigraphy up to and including the chert pebble conglomerate unit.

INTRODUCTION

Location and Access

The 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 Fan claims with grant numbers and anniversary dates is presented below.

<u>Claim Name</u>	<u>Grant Number</u>	<u>No. of Claims</u>	<u>Expiry Date*</u>
Fan 3-14 incl.	YA43751-YA43762 incl.	12	Dec. 5, 1983
Fan 19-256 incl.	YA43763-YA44000 incl.	238	Dec. 5, 1983
Fan 257-468	YA62202-YA62413 incl.	212	Dec. 5, 1983
Fan 489	YA64186	1	Dec. 5, 1983
Fan 500-513 incl.	YA76251-YA76264 incl.	14	Dec. 5, 1983
Total Claims		477	

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

GEOCHEMICAL SURVEY

Procedure

During August-September, 1982, two flagged and picketed grids were put in over part of the claim block. The north grid consists of an 8.6 kilometre base line and 43 one kilometre long cross lines spaced at 200 metre intervals. 867 soil samples were collected at 50 metre intervals along the cross lines. The south grid consists of a 3.6 kilometre base line and 18 one kilometre cross lines at 200 metre intervals. 380 soil samples were taken at 50 metre intervals along the cross lines of this grid.

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

All samples were analyzed for Cu, Mn, Fe, Ag, Pb and Zn whereas only even numbered samples were analyzed for Ba. All analyses were carried out in the Rossbacher Laboratory, Burnaby, B.C. Analytical methods are described in Appendix III.

Results

Sample locations are plotted on Figures 2 and 3. Analytical results are listed in Appendix III.

INTERPRETATION OF RESULTS

South Fan Grid

Lead

Lead values greater than 58 ppm (maximum 204 ppm) occur in small (1 to 11 samples) clusters which trend northwesterly across the grid. Most of the higher values are just north of a northwesterly-striking fault which brings Hadrynian phyllite to the north in contact with Lower Earn siliceous shale to the south.

Zinc

Zinc values are generally low with only 14 samples (4%) containing more than 1,000 ppm Zn.

Barium

Two areas containing greater than 5,000 ppm barium in the northwest and central part of the grid are underlain by Hadrynian phyllite and Cambrian-Ordovician limestone and shale.

Silver

Soils containing silver values greater than 2 ppm are concentrated at the western end of the grid and are underlain mainly by volcanic breccia and Hadrynian phyllite.

Copper

Anomalous copper values from 144 to 830 ppm are concentrated along the southern part of the grid and show a strong correlation with a pyritic volcanic breccia unit.



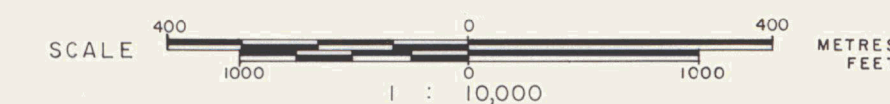
SYMBOLS

- 82HK1267 Soil
 - 82HO 887 Silt
 - ⊕ 82HK/652 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
FAN CLAIMS
NAHANNI MINING DISTRICT — YUKON TERRITORY

GEOCHEMICAL MAP FAN SOUTH GRID



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

Vancouver — *F. R. Harris* Nov. 15/82 H. P.
N. T. S. Ref. 105 0 1
FIG. 4

North Fan Grid

Lead

Lead values greater than 58 ppm and up to 720 ppm (36 samples greater than 100 ppm) are mainly associated with siliceous shales, chert and barite at the base of the Earn Group. One anomalous area 1,000 x 200 metres is underlain by Road River shales.

The anomalous zones are elongated northeast parallel to the bedding.

Zinc

Soils containing anomalous zinc values from 1,713-16,000 ppm occur in northeasterly striking elongated clusters parallel to bedding. Approximately 40% of the anomalous samples are in the baritic basal portion of the Earn Group and 60% are in shales and siltstones of the underlying Road River Group. There is a definite concentration of anomalous samples in the western part of the grid.

Barium

Ninety percent of anomalous barium samples (5,000 ppm or greater) are underlain by the baritic lower portion of the Earn Group.

Silver

In the eastern portion of the grid anomalous silver samples (2.0-6.6 ppm) closely follow the contact between a shale-chert-barite unit at the base of the Earn Group and overlying Earn Group shale.

In the western portion of the grid, the anomaly spreads out to cover the full thickness of the basal baritic unit of the Earn Group and part of the underlying Road River Group.

Copper

Anomalous copper values ranging from 182 ppm to 560 ppm are spread rather evenly over the Road River and Earn Group lithologies. The largest soil anomaly, 400 x 380 metres in extent, lies in the west central portion of the grid at the contact between the baritic basal unit of the Earn Group and the underlying Road River Formation.

F.R. Harris

F.R. Harris

Nov. 12/82

APPENDIX I

STATEMENT OF COSTS

STATEMENT OF COSTS

Period of Work - August 13-25, 1982

S. Grid Fan Claims

Geochemical Analyses - Rossbacher Laboratory, 2225 S. Springer Ave.,
Burnaby, B.C.
Invoice No. 2253
380 samples Cu, Fe, Mn, Ag, Zn, Pb,
Ba \$2,287.50

Helicopter - Quasar Helicopter Invoice No. 82535

5.9 hours @ \$395.00 2,330.50
August 17 - 0.6 (Flight Report 11469)
August 18 - 2.4 11471
August 19 - 1.0 11473
August 20 - 1.9 11475
Total 5.9
===

Personnel Employed

F.R. Harris-601-535 Thurlow Street, Vancouver, B.C.
Senior Geologist; 5 days @ 211.20/day 1,056.00
N.D. Humphreys-131 LaLoche Court, Saskatoon, Saskatchewan
Geologist; 6 days @ 104.35/day 626.10
R.J. Boase-609 E. Carisbrooke Road, North Vancouver, B.C.
Junior Assistant; 7 days @ 63.52/day 444.64
P.R. Elkins-1241 Barlynn Crescent, North Vancouver, B.C.
Junior Assistant; 6 days @ 63.52/day 381.12
A.M. Neill-223 Keith Road, North Vancouver, B.C.
Cook; 7 days @ 79.39/day 555.73
\$3,063.59

Drafting and Report Preparation - 1/2 of 700.00 350.00

Room and Board - 31 man days @ \$25/day 775.00

\$8,806.59
=====

This work to be applied to Fan 11, 13, 19-104, 111
113, 115, 117, 119, 121, 123, 125, 127, 129, 131, 133, 135,
137, 139, 141, 143, 145, 147, 149, 151, 153, 155, 225-230,
237-244, 500-513 to common date to December 5, 1983.

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

AMAX MINERALS EXPLORATION.

601-535 Thurlow Street

DATE Nov. 02, 1982

Vancouver, B.C.

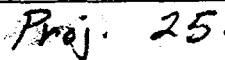
INVOICE NO. 2253

re. Proj. 57025, FAN CL. ILS, SOUTH GRID.

CERTIFICATE NO. as marked

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL				
417 420 220 222 ✓ 381 ✓ 13	Geochem. analysis for 6 elements 3.30 Barium 3.00 Soil sample prep. 0.40 Rock sample prep. 1.75	\$ ~~1,569.00~~ ~~666.00~~ 152.40 31.50	1,584.60 ✓ 660.00 ✓				
ADD / EXT CORRECT <i>Alumka</i> DATE <i>9/12</i> <table><tr><td>PROJECT</td><td>AMOUNT</td></tr><tr><td>57025 8080</td><td>2428.50</td></tr></table> CK. 2 3 4 5 7 NOV 0 9 1982		PROJECT	AMOUNT	57025 8080	2428.50		✓ b. ✓ \$2,428.50 ~~\$ 2,418.90~~
PROJECT	AMOUNT						
57025 8080	2428.50						

TERMS - NET 30 DAYS







MAX

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

460 METAVISH ST. N.E.
CALGARY, ALTA. T2E 7G5
(403) 230-1332 FAX (403) 230-1331

SEP 27 1982

Customer Name and Address

Amex Memoirs
601-535
Vancouver B.C. V6E-3L6

Authorization
No.:

5	7	6	2	5
---	---	---	---	---

Customer
No.:

0	1	0	0	1	5	0	0	0
---	---	---	---	---	---	---	---	---

Contract
No. :

0	1	0	0	1	5	0	0	1
---	---	---	---	---	---	---	---	---

ATC
Area:

1	0	3
---	---	---

Contract
Type:

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

Location

-Operation

- Time-Off:

Time-Down-

— Flying Hours

2011001	Mac Miller Pass VT.	Opera
---------	---------------------	-------

Crew Out
Crew In

07:45

06.40

4

16:55

17:30

0.6

Frach

FUEL
& OIL
SUPPLIED
BY

☐ Quasar
☒ Charter
☐ Litre
☐ Gal

 litres @ \$ = \$

Total Revenue Hours

100

Non-Revenue Hours

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

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: Arick Hambo

- Pilot's Signature: _____

Aug 25.

W. E. Chubb

QUASAR AVIA CON LTD.

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

CALGARY
450 McNAUL ST. N.E.
CALGARY, ALTA. T2L 1G5
(403) 230-1331 Telex: 03-821901

Customer Name and Address

RESS
SE 21 1982
Arox Minerals Exploration
601-535 Harbour St.
Vancouver B.C. CANADA V6C 2G6

Authorization
No.:

[illegible]

Customer
No.:

0	1	0	0	1	5	0	0	0
---	---	---	---	---	---	---	---	---

**Contract
No.:**

0	1	0	0	1	5	0	0	1
---	---	---	---	---	---	---	---	---

ATC
Area:

1	0	3
---	---	---

Contract
Type:

H - Hourly
M - Monthly

D - Daily Min.
O - Other

[illegible]

FUEL
& OIL
SUPPLIED
BY

☐ Quasar
☒ Chartered
☐ Litre
☐ Gal.

一	二	三	四	五	六
---	---	---	---	---	---

litres @ \$
gal. @ \$

_____ = \$

--	--	--	--	--	--	--

Total Revenue Hours

Non-Revenue Hours

[illegible]

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:

Proj 25

Charterer's Signature:

Fred Harris

- Pilot's Signature:

W. E. Updegraff

STATEMENT OF COSTS

Period of Work - August 21 - September 6, 1982

North Fan Grid

Geochemical Analyses - Rossbacher Laboratory, 2225 S. Springer Ave.,
Burnaby, B.C.
Invoice No. 2254

867 samples Cu, Fe, Mn, Ag, Zn, Pb,
Ba

\$ 4,983.20

Helicopter - Quasar Helicopter Invoice No. 82535

August 21 - 0.8	(Flight Report 18852)
August 23 - 1.0	18855
August 24 - 0.7	18856
August 25 - 0.5	18858
August 26 - 0.8	18860
August 27 - 0.7	18862
August 29 - 1.4	18865
August 31 - 1.6	18867
September 1 - 1.3	18868
September 2 - 1.3	18870
September 3 - 1.0	18871

TOTAL 11.1 x 395.00

4,384.50

Personnel and Salaries

F.R. Harris-601-535 Thurlow Street, Vancouver, B.C.

Senior Geologist; 9 days @ 211.20/day

1,900.80

N.D. Humphreys-131 LaLoche Court, Saskatoon, Saskatchewan

Geologist; 10.5 days @ 104.35/day

1,095.68

R.J. Boase-609 E. Carisbrooke Road, North Vancouver, B.C.

Junior Assistant; 14 days @ 63.52/day

889.28

P.R. Elkins-1241 Barlynn Crescent, North Vancouver, B.C.

Junior Assistant; 10 days @ 63.52/day

635.20

A.M. Neill-223 Keith Road, North Vancouver, B.C.

Cook; 12 days @ 79.39/day

992.37

Room and Board - 25.00 x 56 days

1,400.00

Drafting and Report Preparation - ½ x 700.00

350.00

Work to be applied to Fan 105-110, 112, 114, 116, 118, 120, 122,
124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148,
150, 152, 154, 156-224, 232, 247-284, 289, 291-314, 321-448, 489
to common date to December 5, 1983.

\$16,808.08
=====

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

AMAX MINERALS EXPLORATION.

601-535 Thurlow Street

Vancouver, B.C.

57025, FAN CLAIMS, NORTH GRID.

DATE Nov. 2, 1982.

INVOICE NO. 2254

CERTIFICATE NO. as marked.

ITEM	DESCRIPTION	SUB-TOTAL	TOTAL												
812579 442446 ✓ 335 ✓ 2	Geochem. analysis for 6 elements 3.30 Barium 3.00 Soil sample prep. 0.40 Rock sample prep. 1.75 Freight <table border="1"> <tr> <td colspan="2">ADD. & EXT. CORRECT</td> <td colspan="2">DATE 9/82</td> </tr> <tr> <td>PROJECT</td> <td>AMOUNT</td> <td>DATE</td> <td>AMOUNT</td> </tr> <tr> <td>57025</td> <td>8.80</td> <td></td> <td>5002.20</td> </tr> </table> CK 23457 NOV 09 1982	ADD. & EXT. CORRECT		DATE 9/82		PROJECT	AMOUNT	DATE	AMOUNT	57025	8.80		5002.20	\$ ~~3,340.02~~ ~~1,338.00~~ 334.00 ✓ 3.50 ✓ 25.10 ✓	3,313.60 ✓ 1,326.00 ✓ ✓K \$5,002.20 <u>\$ 5,040.62</u>
ADD. & EXT. CORRECT		DATE 9/82													
PROJECT	AMOUNT	DATE	AMOUNT												
57025	8.80		5002.20												

TERMS - NET 30 DAYS

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

TO:

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

AMAX

RECEIVED
SEP 27 1982
VANCOUVER OFFICE

Helicopter Type

Hughes 500C

Registration

C-GWQR

ATC Area

10.3

Period/Order Date

2 Aug - 13 Sept 82

Description

Amount

Flying Hours: 149.4 @ \$335.

\$ 50,049.00

6.9* @ \$335.

2,311.50

156.3

Crew Expenses: as per attached

78.00

Landing Fees: as per attached

15.60

Oil: as per attached

508.25

ADD, TEXT, CORRECT			
PROJECT	DATE	CLAS	AMOUNT
57025	8.20.7		7,336.50
57028	8.20.7		37,719.85
57032	8.20.7		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. 23367 OCT 14 1982

10 CV093



Quasar Helicopters Ltd

HELICOPTER CHARTER SERVICE
VANCOUVER

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

AMAX
33 METAVISH PLACE
CALGARY, ALTA. T2E 7J7
(403) 230-1231 Telex: 03-821901

SEP 27 1982

18852

FLIGHT REPORT

Date: 21 08 82
Day Month Year

A/C Regn.: C-GWQR Type: 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

Amex Minerals Exploration
601-535 Thurlow St
Vancouver B.C. V6E-3Z6

Authorization No.:

Customer No.:

010015000

Contract No.:

010015001

ATC Area:

103

Contract Type:

M

H - Hourly
M - Monthly
O - Other

D - Daily Min.

Location

Operation

Time-Off

Time-Down

Flying Hours

Moc Millan Pass YT.

Crew Out
Crew In

07:50 08:25
17:55 18:25

.6
.5

Fuel

FUEL & OIL SUPPLIED BY

- ☐ Quasar
☒ Charterer
☐ Litre
☐ Gal.

litres @ \$

gal.

= \$

Total Revenue Hours

1 1

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:

Lred E. Davis

Pilot's Signature:

W. E. Clifford

#25

Quasar Helicopters Ltd

HELICOPTER CHARTER SERVICE

VANCOUVER

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

CALGARY.

35 McTAVISH PLACE N.E.
CALGARY, ALTA T2E 7J4
(403) 230-1331 Telex: 03-82190

ALMAX

18855

FLIGHT REPORT

Date:

2	3
---	---

0	8
---	---

8	2
---	---

Day Month Year

A/C Regn.: C — GWQR Type: 500C

Pilot: 1: W. F. Clinton Empl. No.: 8001

Pilot: 2: _____ Empl. No.:

--	--	--	--

Engr. 1: _____ Empl. No.:

8	0	0	1
---	---	---	---

Engr. 2: _____ Empl. No.:

--	--	--	--

Customer No.: 010015000 Contract No.: 010015001 ATC Area: 103 Contract Type: M H - Hourly D - Daily Min. M - Monthly O - Other

[illegible][illegible]

FUEL
& OIL
SUPPLIED
BY

☐ Quasar
☒ Charterer
☐ Litre
☐ Gal.

 litres @ \$ = \$

Total Revenue Hours

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:

1.0-25
1.6-32

Charterer's Signature:

Pilot's Signature:



Quasar Helicopters Ltd

HELICOPTER CHARTER SERVICE

VANCOUVER

150 - 10451 SHELLBRIDGE WAY

RICHMOND, B.C. V6X 2W8

(604) 270-9696 Telex: 04-357633

CALGARY

35 MTEVISH PLAGE NW

CALGARY, ALTA. T2E 7J7

(403) 250-1331 Telex: 03-821901

SEP 27 1982

AMAX

No 18856

FLIGHT REPORT

Date: 24 08 82
Day Month Year

A/C Regn.: C-5WQR Type: 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

Amox Mining Exploration

601-535 Thurlow St

Vancouver B.C. V6C 3L8

Authorization

No.:

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

Mac Millan Pass Y.T.

Crew Out

08:00

08:15

.3

✓

Crew In

16:25

16:50

.4

✓

Fred

FUEL
& OIL
SUPPLIED
BY

- ☐ Quasar
☒ Charterer
☐ Litre
☐ Gal.

litres
gal.

@ \$

= \$

Total Revenue Hours

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:

Fred R. Hani

Pilot's Signature:

W. E. Clifford

#25

Quasar Helicopters Ltd

HELICOPTER CHARTER SERVICE

VANCOUVER

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

CALIFORNIA

35 METAVISH PLACE NW
CALGARY, ALTA. T2E 7J7
(403) 230-1331 Telex: 03-821901

AMAX

18862

FLIGHT REPORT

Date:

2	7
---	---

0	8
---	---

8	2
---	---

Day Month Year

A/C Regn.:

C	G	W	Q	R
---	---	---	---	---

 Type:

5	0	0	C
---	---	---	---

Pilot: 1 W.F. Clifford Empl. No.: 8001

Pilot: 2: _____ Empl. No.: _____

Engr. 1: _____ Empl. No.: 8001

Engr. 2: _____ Empl. No.:

--	--	--	--

Authorization No.:

Customer No.: 010015000 Contract No.: 010015001 ATC Area: 103 Contract Type: M H - Hourly D - Daily Min.
M - Monthly O - Other

[illegible]

FUEL & OIL SUPPLIED BY	☐ Quasar		litres	@ \$		= \$	
	☒ Charterer		gal.				
	☐ Litre						
	☐ Gal.						

Total Revenue Hours	64
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: L. R. Harris Pilot's Signature: W. E. Clark

Quasar Helicopters Ltd

HELICOPTER CHARTER SERVICE

VANCOUVER

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

CANCARY

35 McTAVISH PLACE
CALGARY, ALTA. T2E 7J7
(403) 230-1331 Telex: 03-821901

AMX

No 18868

FLIGHT REPORT

Date:

0	1
---	---

0	9
---	---

8	2
---	---

Day Month Year

A/C Regn.: **C** - **GWQR** Type: **500C**

Pilot: 1: W. E. CLIFFORD Empl. No.: 8001

Pilot: 2: _____ Empl. No.:

--	--	--	--

Engr. 1: 11 Empl. No.:

8	0	0	1
---	---	---	---

Engr. 2: _____ Empl. No.:

--	--	--	--

Customer Name and Address

SEP 27 1982

Amex Minerals Exploration

601-535 Harlow Street
Vancouver B.C. V6G 2R6

Authorization
No.:

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

Mac Millan Pass YT.

Crew Out	08:20	08:55	.6	✓
Crew In	16:05	16:45	.7	✓

FUEL
& OIL
SUPPLIED
BY

☐ Quasar
☒ Chartered
☐ Litre
☐ Gal.

 litres gal. @ \$ = \$

Total Revenue Hours

13

Non-Revenue Hours

1	2	3	4	5
---	---	---	---	---

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:

#25

Charterer's Signature:

- Pilot's Signature:

Quasar Helicopters Ltd

HELICOPTER CHART SERVICE

VANCOUVER

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

C/EGAR 22

35 MC TAVISH PLACE N.E.
CALGARY, ALTA. T2E 7J7
(403) 230-1331 Telex: 03-821901

No. **18871**

FLIGHT REPORT

Date:

0	3
---	---

0	9
---	---

8	2
---	---

Day Month Year

A/C Regn.:

C	-	G	W	Q	R
---	---	---	---	---	---

 Type:

5	0	0	C
---	---	---	---

Pilot: 1. W. F. CLIFFORD Empl. No.: 8001

Pilot: 2: _____ Empl. No.:

--	--	--	--

Engr. 1: " Empl. No.: 8001

Engr. 2: _____ Empl. No.:

--	--	--	--

Authorization

No.: _____

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
----------	-----------	----------	-----------	--------------

Mac Miller Pass VT.

Crew Out

07:50

08:25

6

☒

Good day

14:20

15:05

0.2/

8

Fred

FUEL
& OIL
SUPPLIED
BY

☐ Quasar ☐ Charterer ☐ Litre ☐ Gal.

litres @ \$ = \$

Item	Extra Charge or Adjust	Amount	Remark
------	------------------------	--------	--------

Total Revenue Hours	1	00	✓
---------------------	---	----	---

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:

#25

Charterer's Signature: Paul K. Harris

Pilot's Signature: W. E. Clifford

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. *Multielement:* (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, multielement 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 HNO_3 .
The solution is analyzed by Atomic Absorption for SiO_2 , Al_2O_3 , Fe_2O_3 , MgO , CaO , Na_2O , K_2O , TiO_2 , P_2O_5 , 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

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

CERTIFICATE NO. 82258-5
INVOICE NO.
DATE ANALYSED SEPT 24/82
PROJECT 025

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	70.0	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			446	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	92	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
28	1708			106	560	4.7	0.8	1060	22	3180				28
29	T 1709			50	300	2.1	0.8	580	16	8400				29
30	82 HKT 1710			72	420	3.3	1.0	240	14	8500				30
31	S 1711			104	500	4.6	2.4	650	50	—				31
32	1712			100	340	3.8	1.4	334	38	5200				32
33	1713			134	320	3.9	1.8	320	36	—				33
34	1714			142	380	4.2	2.0	300	46	8000				34
35	1715			156	100	2.6	2.2	328	204	—				35
36	1716			140	100	3.4	3.6	262	92	7600				36
37	1717			164	180	4.2	2.0	352	60	—				37
38	1718			126	90	3.9	1.8	168	38	1100				38
39	82 HKS 1719			222	220	4.6	2.2	382	34	—				39
40	B			150	180	0.9	1.0	176	94	—				40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

P. Rossbacher

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

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

CERTIFICATE NO. 82258-6

INVOICE NO.

DATE ANALYSED SEPT. 24/82

PROJECT 025

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba				No.
01	82 HKS 1720			82	380	3.6	1.0	168	34	6300				01
02	1721			230	320	5.5	3.4	540	24	—				02
03	1722			44	80	2.1	2.0	204	44	5400				03
04	1723			74	140	5.1	0.6	156	28	—				04
05	1724			84	280	7.4	0.6	146	20	2160				05
06	1725			82	200	2.4	2.0	840	26	—				06
07	1726			82	280	2.9	2.0	680	26	5000				07
08	T 1727			82	320	2.6	1.4	426	32	4700				08
09	S 1728			60	320	2.6	1.4	1200	58	3340				09
10	82 HKS 1729			40	340	2.2	0.6	690	18	—				10
11	1730			156	1480	>10.0	1.2	6300	24	2080				11
12	1731			154	2200	>10.0	1.0	1840	16	—				12
13	1732			178	2860	>10.0	1.0	730	14	3760				13
14	1733			178	2540	>10.0	3.4	364	126	—				14
15	1734			320	140	8.5	2.0	146	30	2000				15
16	1735			176	80	5.5	0.6	136	14	—				16
17	1736			154	110	6.9	0.8	188	24	1160				17
18	T 1737			30	240	1.8	0.2	70	42	680				18
19	82 HKS 1738			168	150	8.8	1.0	154	14	1160				19
20	~~STD. A~~			~~26~~	~~420~~	~~2.4~~	~~0.2~~	~~44~~	~~18~~	~~1680~~				20
21	82 HKS 1739			188	120	6.0	0.8	116	12	—				21
22	1740			92	60	2.4	1.4	80	32	1580				22
23	1741			82	40	4.0	1.4	78	14	—				23
24	1742			152	80	5.4	0.8	146	16	1200				24
25	1743			306	1780	8.2	1.2	180	32	—				25
26	1744			182	1620	>10.0	6.8	840	110	1920				26
27	1745			234	1560	>10.0	2.2	610	30	—				27
28	1746			176	1820	>10.0	4.6	350	80	3540				28
29	1747			142	860	>10.0	3.0	174	54	—				29
30	82 HKS 1748			154	1460	>10.0	3.0	430	106	4600				30
31	1749			118	680	6.4	1.6	590	36	—				31
32	1750			52	60	2.7	0.2	176	14	8700				32
33	1751			82	460	6.1	1.2	244	26	—				33
34	1752			60	2760	>10.0	1.4	218	42	1680				34
35	1753			38	460	3.5	0.2	144	20	—				35
36	1754			84	200	3.4	1.4	450	32	8800				36
37	1755			90	240	3.1	1.8	580	32	—				37
38	1756			82	340	3.2	1.6	540	32	6500				38
39	82 HKS 1757			52	110	3.0	3.4	170	10	—				39
40	~~STD. A~~			~~28~~	~~440~~	~~2.5~~	~~0.2~~	~~46~~	~~20~~					40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

P. Rossbach

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82258-7

INVOICE NO.

DATE ANALYSED OCT. 2/82

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 1758			80	500	4.5	1.8	760	62	3560				01
02	1759			100	400	4.5	2.0	620	62	-				02
03	1760			182	220	4.0	2.8	336	36	3240				03
04	1761			98	440	4.0	1.2	410	20	-				04
05	1762			100	380	4.7	2.2	580	26	10,000				05
06	1763			88	560	4.8	2.0	486	26	-				06
07	1764			72	520	3.4	1.4	388	20	10,000				07
08	1765			56	220	2.8	0.8	446	24	-				08
09	1766			54	200	3.2	0.8	404	32	3800				09
10	82 HKS 1767			80	140	3.0	1.4	196	32	-				10
11	1768			168	480	7.0	2.6	450	58	10,000				11
12	1769			80	220	3.4	1.4	264	38	-				12
13	1770			36	220	2.1	1.2	214	18	7900				13
14	1771			46	320	3.2	0.8	304	20	-				14
15	1772			60	160	3.4	0.6	210	20	6200				15
16	1773			94	440	5.1	1.0	380	30	-				16
17	1774			134	760	8.4	3.6	170	80	2200				17
18	1775			130	1820	7.0	3.6	242	90	-				18
19	82 HKT 1776			34	220	2.0	0.8	80	12	2940				19
20	~~STD B~~			~~150~~	~~150~~	~~0.9~~	~~1.0~~	~~140~~	~~96~~	~~1700~~				20
21	82 HKT 1777			18	30	0.7	0.8	24	12	1040				21
22	S 1778			360	1520	9.9	1.8	154	40	1640				22
23	1779			830	2580	7.0	6.6	1680	130	-				23
24	1780			52	80	2.9	2.0	26	80	880				24
25	1781			48	40	2.3	1.2	20	28	-				25
26	1782			74	20	2.7	0.8	18	10	1300				26
27	1783			86	60	3.9	1.0	24	18	-				27
28	1784			76	40	2.6	0.8	20	12	1420				28
29	T 1785			30	20	0.9	0.8	34	22	1360				29
30	82 HKT 1786			50	40	2.1	0.6	20	12	1140				30
31	1787			34	30	1.1	0.6	18	10	1620				31
32	S 1788			32	320	2.6	0.6	630	12	3040				32
33	1789			64	180	3.3	1.2	130	34	-				33
34	1790			76	680	5.1	1.2	74	18	5900				34
35	1791			134	1720	7.0	1.4	396	26	-				35
36	1792			56	160	2.6	0.8	326	24	6500				36
37	1793			132	1520	5.3	4.8	1060	560	-				37
38	1794			32	90	2.0	0.8	170	18	4300				38
39	82 HKS 1795			104	320	4.3	1.6	400	88	-				39
40	~~STD B~~			~~150~~	~~140~~	~~0.9~~	~~1.2~~	~~140~~	~~98~~					40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

P. Rossbacher

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82258-8

INVOICE NO.

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

DATE ANALYSED OCT. 2/82

PROJECT 025

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba				No.
01	82 HKS 1796			48	150	2.8	0.4	306	34	5100				01
02	1797			82	220	3.1	1.2	334	92	-				02
03	1798			86	380	4.3	0.2	290	20	4300				03
04	1799			38	160	2.4	0.2	286	16	-				04
05	1800			78	420	3.7	0.6	456	24	7000				05
06	1801			68	220	3.5	0.6	740	20	-				06
07	1802			74	220	4.0	0.8	1520	18	2080				07
08	1803			72	360	3.0	0.2	394	22	-				08
09	1804			68	460	3.4	0.6	1060	28	4100				09
10	82 HKS 1805			90	440	5.7	0.4	356	50	-				10
11	1806			44	110	2.6	0.2	224	68	4900				11
12	1807			28	130	2.4	0.2	422	22	-				12
13	1808			62	300	3.9	0.2	520	18	4900				13
14	1809			100	200	2.6	0.4	30	12	-				14
15	1810			56	120	3.1	0.2	210	150	5800				15
16	1811			76	520	3.7	0.6	210	82	-				16
17	1812			58	280	4.2	1.0	356	56	6600				17
18	1813			40	200	3.8	0.2	140	26	-				18
19	82 HKS 1814			26	120	1.8	0.2	292	12	4000				19
20	~~STD D~~			~~118~~	~~80~~	~~0.9~~	~~3.8~~	~~510~~	~~94~~	~~1600~~				20
21	82 HKS 1815			68	420	4.7	1.2	600	54	-				21
22	1816			98	560	6.8	0.2	204	28	5400				22
23	1817			242	1000	6.6	2.0	430	60	-				23
24	T 1818			28	50	1.4	0.4	12	32	2540				24
25	1819			34	120	1.4	0.4	20	22	2500				25
26	S 1820			130	860	6.7	1.6	660	28	2340				26
27	1821			120	840	6.7	1.0	590	22	-				27
28	1822			198	2120	710.0	1.0	98	26	1740				28
29	1823			244	2020	710.0	1.6	114	80	-				29
30	82 HKS 1824			166	760	7.3	1.0	46	42	2900				30
31	1825			94	110	3.1	1.0	14	32	-				31
32	1826			86	130	3.3	0.8	18	40	2520				32
33	T 1827			38	200	2.2	0.6	20	4	2340				33
34	S 1828			240	1640	710.0	1.6	100	64	1860				34
35	1829			212	1520	710.0	1.4	284	20	-				35
36	1830			104	520	5.9	1.8	690	36	3380				36
37	1831			100	400	5.4	1.2	238	46	-				37
38	1832			92	200	6.3	0.6	580	64	5600				38
39	82 HKS 1833			58	180	3.4	0.4	300	26	-				39
40	~~STD D~~			~~122~~	~~80~~	~~0.9~~	~~4.0~~	~~500~~	~~96~~					40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

P. Rossbach

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82258-9
INVOICE NO.
DATE ANALYSED OCT. 2/82
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 1834			82	300	5.9	1.0	272	68	4200				01
02	1835			30	100	3.0	0.4	106	26	-				02
03	1836			18	140	1.9	0.6	112	14	4300				03
04	1837			30	180	2.8	0.6	172	24	-				04
05	1838			30	300	1.8	0.4	98	12	2240				05
06	1839			160	700	7.5	1.6	140	56	-				06
07	T 1840			30	50	1.1	0.8	18	18	2140				07
08	1841			26	180	1.9	0.6	18	14	1860				08
09	S 1842			184	700	8.5	1.0	36	24	2560				09
10	82 HKS 1843			180	680	8.1	1.6	40	30	-				10
11	1844			210	940	710.0	1.2	46	38	3480				11
12	1845			104	520	4.1	1.4	1060	34	-				12
13	1846			92	440	3.6	1.8	1140	34	2440				13
14	T 1847			34	90	1.9	0.8	180	16	1680				14
15	1848			72	160	2.6	0.6	160	20	2140				15
16	S 1849			92	340	3.4	1.2	488	42	-				16
17	1850			70	260	3.1	1.2	364	48	4400				17
18	1851			70	380	3.5	1.6	540	64	-				18
19	82 HKS 1852			30	140	1.7	0.6	456	18	2600				19
20	~~STD E~~			~~82~~	~~300~~	~~3.0~~	~~0.4~~	~~158~~	~~18~~	~~1700~~				20
21	82 HKS 1853			32	90	2.2	0.4	142	16	-				21
22	1854			26	100	1.8	0.6	64	24	1940				22
23	1855			28	90	1.8	0.6	88	18	-				23
24	1856			36	80	1.9	0.2	120	18	3640				24
25	1857			48	200	3.2	0.6	264	30	-				25
26	1858			28	60	1.8	0.4	84	10	2380				26
27	1859			40	140	3.1	0.8	180	28	-				27
28	1860			38	60	2.0	0.2	110	14	3200				28
29	1861			98	300	3.5	1.4	388	60	-				29
30	82 HKS 1862			96	440	4.8	0.6	168	12	2200				30
31	T 1863			58	380	3.1	0.6	30	12	4000				31
32	1864			72	460	4.2	0.6	106	6	2840				32
33	S 1865			146	480	6.8	0.8	248	18	-				33
34	1890			18	50	2.5	1.6	48	4	3120				34
35	1891			18	30	2.2	1.6	72	6	-				35
36	1892			318	940	9.0	3.2	1000	8	2140				36
37	L 1893			42	50	2.6	2.4	40	4	3420				37
38	S 1894			12	30	0.9	0.8	16	12	2440				38
39	82 HKS 1895			16	30	0.9	0.8	20	16	-				39
40	~~STD E~~			~~80~~	~~300~~	~~2.5~~	~~0.2~~	~~152~~	~~18~~					40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

J. Rossbach

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

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

CERTIFICATE NO. 82258-10
INVOICE NO.
DATE ANALYSED OCT. 2, 1982
PROJECT 025

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba				No.
01	82 HKS 1896			32	60	1.6	2.4	36	14	3600				01
02	1897			12	60	1.1	1.2	36	14	-				02
03	1898			20	70	1.4	2.0	22	8	2480				03
04	1899			24	70	1.5	2.8	34	12	-				04
05	1900			24	60	1.2	3.8	28	2	7800				05
06	1901			14	30	0.8	2.4	26	8	-				06
07	1902			24	20	1.3	4.6	22	2	10,000				07
08	1903			28	50	1.3	2.8	26	2	-				08
09	1904			18	360	4.1	3.8	468	8	2080				09
10	82 HKS 1905			14	50	1.4	0.6	48	12	-				10
11	1906			12	30	0.8	0.4	46	8	2360				11
12	1907			14	40	1.0	0.8	52	6	-				12
13	1908			10	40	0.7	0.2	28	2	1160				13
14	1909			110	300	2.4	1.8	1540	18	-				14
15	1910			14	50	1.1	0.8	46	8	1880				15
16	1911			14	50	0.9	0.4	48	6	-				16
17	1912			38	80	2.4	0.8	270	26	2480				17
18	1913			16	70	0.9	0.2	86	6	-				18
19	82 HKS 1914			10	20	0.6	0.2	36	4	1860				19
20	~~STD C~~			~~176~~	~~190~~	~~1.2~~	~~0.8~~	~~110~~	~~80~~	~~1700~~				20
21	82 HKS 1915			16	40	0.7	0.4	26	8	-				21
22	1916			12	60	0.8	0.2	60	10	1820				22
23	1917			52	140	3.3	0.4	110	8	-				23
24	1918			68	520	4.2	1.2	310	44	2320				24
25	1919			28	130	1.8	0.4	100	10	-				25
26	1920			28	60	1.4	0.4	166	32	1340				26
27	1921			8	40	0.6	1.0	38	6	-				27
28	1922			40	240	1.7	0.6	188	12	2460				28
29	1923			18	40	1.4	1.4	74	14	-				29
30	82 HKS 1924			20	110	1.1	0.8	106	10	2340				30
31	1925			16	60	1.1	0.6	80	12	-				31
32	1926			18	30	1.5	1.0	76	18	2520				32
33	1927			10	20	0.9	0.4	50	8	-				33
34	1928			6	30	0.6	2.4	14	2	1160				34
35	1929			8	20	0.9	0.8	44	10	-				35
36	1930			30	50	2.5	2.6	176	20	1460				36
37	1931			68	200	2.2	1.8	1020	2	-				37
38	1932			14	70	1.2	0.6	76	10	2060				38
39	82 HKS 1933			16	50	0.9	0.8	28	12	-				39
40	~~STD C~~			~~172~~	~~180~~	~~1.2~~	~~1.0~~	~~112~~	~~78~~					40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

P. Rossbach

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. **82258-11**

INVOICE NO.

DATE ANALYSED **OCT. 8, 1982**

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 1934			8	30	0.4	0.2	22	2	1260		01
02	1935			24	70	1.6	0.4	72	8	-		02
03	1936			14	40	1.0	0.2	42	2	1860		03
04	1937			10	30	0.9	0.6	38	2	-		04
05	1938			10	20	0.8	0.8	26	6	2780		05
06	1939			52	340	3.1	1.6	100	8	-		06
07	1940			28	10	1.3	2.0	18	2	2900		07
08	1941			26	10	1.0	1.8	22	2	-		08
09	1942			40	10	3.5	5.4	20	2	2780		09
10	82 HKS 1943			60	130	3.8	2.0	90	28	-		10
11	T 1944			54	90	2.3	0.8	192	4	5900		11
12	1945			48	220	3.2	0.6	246	12	5100		12
13	S 1946			22	50	1.8	0.8	100	10	4300		13
14	1947			38	90	2.9	1.0	156	14	-		14
15	1948			50	150	2.0	1.8	430	6	>10,000		15
16	1949			60	50	2.4	1.8	162	2	-		16
17	1950			188	280	3.5	2.2	1520	2	>10,000		17
18	1951			42	90	1.8	0.8	600	2	-		18
19	82 HKS 1952			82	100	2.6	1.8	1640	2	>10,000		19
20	~~D~~			~~118~~	~~80~~	~~1.0~~	~~4.0~~	~~490~~	~~92~~	~~1760~~		20
21	82 HKS 1953			90	200	3.0	3.0	960	2	-		21
22	1954			26	70	0.9	0.8	82	2	1340		22
23	1955			46	30	1.6	0.6	500	12	-		23
24	1956			40	160	1.4	0.8	332	54	1300		24
25	1957			142	190	2.0	6.6	680	26	-		25
26	1958			176	260	1.9	4.4	1680	12	2340		26
27	1959			114	100	2.5	1.6	1400	6	-		27
28	1960			156	400	1.9	3.8	920	8	2040		28
29	1961			42	110	1.9	2.2	470	4	-		29
30	82 HKS 1962			84	220	3.2	0.8	820	8	2380		30
31	1963			68	580	2.7	0.6	200	10	-		31
32	1964			120	380	6.1	1.2	860	14	2100		32
33	1965			206	260	5.6	1.6	344	26	-		33
34	1966			104	460	5.6	1.0	280	18	2380		34
35	1967			84	200	7.6	0.4	386	2	-		35
36	1968			54	50	2.4	0.8	600	14	1340		36
37	1969			52	50	1.5	1.2	174	12	-		37
38	1970			22	30	0.9	0.4	102	6	1520		38
39	82 HKS 1971			38	60	1.1	1.0	76	2	-		39
40	~~D~~			~~110~~	~~80~~	~~0.9~~	~~3.8~~	~~978~~	~~90~~			40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

C. Rossbacher

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82258-12

INVOICE NO.

DATE ANALYSED OCT. 10/82

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 1972			28	50	1.2	0.6	90	14	4100				01
02	1973			118	680	3.2	4.2	2750	20	-				02
03	1974			198	100	3.6	5.8	620	16	1380				03
04	1975			40	70	1.5	1.0	212	6	-				04
05	1976			142	180	4.0	4.6	720	16	1640				05
06	1977			114	190	4.9	3.0	1040	20	-				06
07	1978			34	20	1.3	1.8	88	8	10,000				07
08	1979			86	400	4.5	1.2	306	38	-				08
09	1980			34	480	3.0	0.8	146	28	1640				09
10	82 HKS 1981			82	1440	6.2	1.4	314	62	-				10
11	1982			42	1560	3.8	1.0	302	86	600				11
12	1983			58	620	3.9	0.8	164	38	-				12
13	1984			76	360	5.0	1.6	172	50	1480				13
14	1985			98	560	6.2	1.2	258	46	-				14
15	1986			116	760	6.5	1.0	296	52	1400				15
16	1987			70	900	5.1	0.8	256	54	-				16
17	1988			72	660	4.8	1.2	348	62	2280				17
18	1989			68	90	2.2	1.0	188	24	-				18
19	82 HKS 1990			82	70	2.4	1.8	328	22	10,000				19
20	~~SJD D~~			~~120~~	~~70~~	~~1.0~~	~~4.2~~	~~498~~	~~96~~	~~1500~~				20
21	82 HKS 1991			68	40	2.3	2.0	160	34	-				21
22	1992			20	90	0.8	0.4	252	4	10,000				22
23	1993			72	150	2.4	2.0	1060	14	-				23
24	1994		MISSING	-	-	-	-	-	-	-				24
25	1995			124	820	3.2	3.2	4750	18	-				25
26	1996			178	320	2.9	4.2	3750	14	1760				26
27	1997			160	420	3.1	3.8	4050	20	-				27
28	1998			168	340	2.9	4.0	1460	20	1720				28
29	1999			128	340	2.2	3.2	1220	12	-				29
30	82 HKS 2000			130	420	2.6	2.8	1440	14	2300				30
31	2001			146	320	2.3	3.4	2040	16	-				31
32	2002			188	300	3.4	3.6	4200	20	1980				32
33	2003			132	240	2.5	3.4	2250	14	-				33
34	2004			142	420	2.9	3.4	2000	16	1680				34
35	2005			96	240	2.0	2.2	1020	12	-				35
36	2006			102	380	1.8	3.0	2450	44	2780				36
37	2007			32	110	1.2	0.8	560	38	-				37
38	2008			138	220	3.0	2.0	2400	14	2420				38
39	82 HKS 2009			186	300	2.7	3.6	2400	16	-				39
40	~~SJD D~~			~~118~~	~~70~~	~~1.0~~	~~4.0~~	~~490~~	~~100~~	~~-~~				40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

[Signature]

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82258-13

INVOICE NO.

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

DATE ANALYSED OCT 20, 1982

PROJECT 025

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Be				No.
01	82 HKS 2010			142	100	3.7	4.8	1340	20	1220				01
02	2011			144	180	3.8	3.8	1600	16	—				02
03	2012			138	320	3.7	4.0	2300	16	2480				03
04	2013			114	100	4.6	4.2	1320	22	—				04
05	2014			148	80	4.8	2.6	1300	6	4000				05
06	2016			90	70	2.3	2.0	780	86	1320				06
07	2017			166	220	4.4	4.2	2000	388	—				07
08	2018			182	130	2.8	6.2	800	230	1260				08
09	2019			50	220	1.9	0.6	460	10	—				09
10	82 HKS 2020			34	170	2.8	0.6	236	14	2280				10
11	2021			22	160	2.2	0.4	192	8	—				11
12	2022			28	420	2.9	0.4	122	16	1180				12
13	2023			30	80	2.4	1.4	196	144	—				13
14	2024			20	320	2.2	0.6	376	54	620				14
15	2025			8	240	1.1	0.2	14	4	—				15
16	2026			62	620	5.8	0.8	386	18	5900				16
17	2027			20	90	1.9	0.6	178	40	—				17
18	2028			82	1280	2.9	1.2	1240	116	2780				18
19	82 HKS 2029			20	220	1.6	0.4	98	10	—				19
20	~~STD C~~			~~172~~	~~200~~	~~1.3~~	~~0.8~~	~~108~~	~~74~~	~~1620~~				20
21	82 HKS 2030			104	300	4.1	1.0	214	54	1180				21
22	2031			52	160	2.8	0.4	200	18	—				22
23	2032			30	90	2.2	0.6	178	42	1340				23
24	2033			36	170	3.2	1.0	390	48	—				24
25	2034			42	180	2.7	1.0	172	116	540				25
26	2035			44	170	2.7	1.0	166	106	—				26
27	2036			48	70	2.6	1.8	332	106	3140				27
28	2037			40	110	2.6	1.0	290	68	—				28
29	2038			132	220	4.4	2.6	1280	2567	10,000				29
30	82 HKS 2039			40	40	2.4	1.4	352	94	—				30
31	2040			86	240	5.0	2.6	590	44	4300				31
32	2041			50	90	3.9	2.6	140	60	—				32
33	2042			66	80	8.1	3.4	270	76	10,000				33
34	2043			78	110	5.0	2.4	178	94	—				34
35	2044			76	70	5.1	3.4	140	70	10,000				35
36	2045			58	70	7.6	3.6	176	48	—				36
37	2046			90	620	4.6	1.0	434	86	2000				37
38	2048			38	460	3.3	0.6	106	34	1540				38
39	82 HKS 2049			34	440	3.1	0.6	98	34	—				39
40	2047			38	200	3.0	0.6	168	34	—				40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

[Signature]

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82258-14

INVOICE NO.

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

DATE ANALYSED OCT. 20, 1982

PROJECT 025

No.	Sample	pH	MS	Cu	Mn	%Fe	Ag	Zn	Pb	Ba				No.
01	82 HKS 2050			58	420	3.8	0.4	158	32	1500				01
02	2051			26	80	5.6	0.8	60	60	-				02
03	2052			74	440	4.6	1.0	194	32	2500				03
04	2053			120	240	4.5	1.6	306	22	-				04
05	2054			92	220	2.6	1.2	240	26	10,000				05
06	2055			84	220	5.1	2.6	472	32	-				06
07	2056			102	340	2.4	1.6	2500	20	2380				07
08	2057			66	160	3.7	1.2	1920	128	-				08
09	2058			70	70	1.9	2.0	284	94	2160				09
10	82 HKS 2059			98	280	2.4	2.0	560	62	-				10
11	2060			20	50	1.1	0.4	64	22	2840				11
12	2061			108	120	3.2	2.8	386	70	-				12
13	2062			66	380	1.3	0.8	3500	8	1460				13
14	2063			60	380	3.1	0.6	1120	26	-				14
15	2064			26	70	2.3	0.4	238	34	1840				15
16	2065			46	130	2.8	0.4	336	34	-				16
17	2066			70	140	1.8	2.8	192	80	1380				17
18	2067			88	660	6.1	1.6	370	186	-				18
19	82 HKS 2068			14	110	1.6	0.2	120	14	1560				19
20	~~STD F~~			~~74~~	~~300~~	~~3.0~~	~~0.2~~	~~144~~	~~16~~	~~1600~~				20
21	82 HKS 2069			116	500	2.7	2.2	2650	18	-				21
22	2070			212	620	2.4	2.8	7200	16	2840				22
23	2071			230	640	2.5	2.4	6400	12	-				23
24	2072			94	180	2.2	2.2	2080	22	1300				24
25	2073			88	160	3.8	2.6	540	42	-				25
26	2074			24	50	2.0	1.4	116	20	2140				26
27	2075			114	280	2.4	2.6	4800	16	-				27
28	2076			80	170	1.7	2.0	2850	14	2020				28
29	2077			50	240	1.7	1.0	920	12	-				29
30	82 HKS 2078			130	600	2.1	2.0	5850	14	3040				30
31	2079			138	260	2.1	2.6	3000	20	-				31
32	2080			58	130	1.4	1.2	1220	12	2640				32
33	2081			100	220	2.4	1.4	2650	18	-				33
34	2082			122	420	2.0	1.4	1780	14	2240				34
35	2083			146	420	2.3	1.8	2100	18	-				35
36	2084			150	150	2.7	2.8	1440	16	3400				36
37	2085			126	130	3.4	3.4	458	26	-				37
38	2086			70	130	2.9	2.0	860	20	10,000				38
39	82 HKS 2087			142	80	3.2	3.0	414	54	-				39
40	2088A			128	480	2.6	1.8	2850	16	3300				40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

J. Rossbacher

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

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

CERTIFICATE NO. **82258-15**
INVOICE NO.
DATE ANALYSED **OCT. 20, 1982**
PROJECT **025**

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba				No.
01	82 HKS 2088			100	120	4.9	3.6	386	72	2780				01
02	2089			172	680	9.5	1.4	700	66	-				02
03	2090			18	30	1.0	0.8	44	30	2080				03
04	2091			42	40	2.3	3.2	60	26	-				04
05	2092			56	80	3.3	1.6	158	30	9400				05
06	2093			128	1620	3.6	3.2	282	38	-				06
07	2094			82	150	4.0	2.4	230	58	710,000				07
08	2095			104	480	5.5	4.0	720	54	-				08
09	2096			30	60	2.2	1.4	60	26	3260				09
10	82 HKS 2097			76	70	4.5	2.4	248	52	-				10
11	2098			102	240	4.6	2.4	1680	16	7200				11
12	2099		M	1 S	S	1 N	G	-	-	-				12
13	2100			214	580	6.6	3.2	4000	28	1900				13
14	2101			150	280	2.1	2.8	1500	14	-				14
15	2102			138	240	1.9	2.6	1680	12	1780				15
16	2103			154	520	2.3	3.2	1760	14	-				16
17	2104			146	500	2.3	2.6	1840	8	2080				17
18	2105			86	740	1.1	1.6	1060	6	-				18
19	82 HK 2106			250	700	2.0	4.0	4400	18	2500				19
20	~~STD B~~			~~136~~	~~140~~	~~0.9~~	~~0.8~~	~~134~~	~~96~~	~~1620~~				20
21	82 HK 2107			146	340	3.1	4.2	1700	14	-				21
22	2108			52	100	3.8	2.4	730	18	2020				22
23	2109			48	70	2.2	2.4	530	8	-				23
24	2110			90	200	2.6	2.0	970	14	2720				24
25	2111			52	170	2.1	1.2	860	8	-				25
26	2112			134	480	3.0	3.6	900	70	710,000				26
27	2113			108	960	2.8	4.6	1160	176	-				27
28	2114			104	70	2.9	5.0	280	94	710,000				28
29	2115			82	70	3.8	5.2	424	60	-				29
30	82 HK 2116			106	90	4.3	5.2	510	106	710,000				30
31	2117			118	160	4.3	4.4	560	72	-				31
32	2118			68	140	2.9	2.8	144	30	3420				32
33	2119			138	540	2.0	4.0	3300	10	-				33
34	2120			148	400	2.9	2.4	6100	20	2260				34
35	2121			102	860	4.2	3.8	5150	18	-				35
36	82 HKL 3000000			28	13400	710.0	0.4	21000	2	1020				36
37	1 1411			142	40	3.0	0.6	86	6	2400				37
38	~~STD B~~			~~136~~	~~150~~	~~0.9~~	~~0.8~~	~~140~~	~~96~~					38
39														39
40														40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified By

[Signature]

34	S 502	62	3.5	110	0.6	256	48	1600	34
35	503	10	1.3	20	0.4	20	10	-	35
36	504	34	2.6	320	0.2	146	8	1840	36
37	505	46	1.9	130	0.4	160	12	-	37
38	506	76	2.5	420	2.0	3050	12	3120	38
39	82 HNS 507	30	2.1	30	0.4	254	40	-	39
40	STD C	180	1.1	180	0.6	114	80	-	40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

P. Rossbach

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

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

CERTIFICATE NO. 82258-26
INVOICE NO.
DATE ANALYSED OCT. 26, '82
PROJECT 57025

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba			No.
01	82 HHS 508			34	200	2.1	0.6	114	14	1610			01
02	509			12	660	1.2	0.2	110	6	—			02
03	510			100	220	5.6	2.0	252	24	780			03
04	511			42	40	1.6	0.4	142	8	—			04
05	512			12	40	1.1	0.2	42	4	960			05
06	513			24	60	1.7	0.8	112	14	—			06
07	514			130	320	4.5	3.6	268	36	1320			07
08	515			22	300	1.9	0.4	80	18	—			08
09	516			28	780	4.3	0.2	174	52	2760			09
10	82 HHS 517			32	1260	4.0	0.4	266	38	—			10
11	518			62	170	2.0	1.4	332	24	1960			11
12	519			8	90	0.8	0.4	22	4	—			12
13	520			36	360	3.3	0.4	72	14	3760			13
14	521			18	150	2.0	0.2	54	8	—			14
15	522			12	720	1.0	0.2	36	8	1260			15
16	523			76	680	9.1	1.0	710	128	—			16
17	524			58	70	2.4	0.6	162	18	1420			17
18	525			44	70	2.6	1.0	148	32	—			18
19	82 HHS 526			54	1060	3.1	1.0	246	44	2320			19
20	~~STD Fe~~			~~70~~	~~300~~	~~2.7~~	~~0.2~~	~~144~~	~~18~~	~~1660~~			20
21	82 HHS 527			62	240	4.0	0.6	276	34	—			21
22	528			32	240	2.9	0.6	142	20	1960			22
23	529			4	50	0.6	0.8	40	2	—			23
24	530			78	220	2.2	2.4	3000	20	2380			24
25	531			34	320	2.6	0.6	400	26	—			25
26	532			26	980	2.7	0.6	300	26	2280			26
27	533			34	3720	3.8	0.2	284	56	—			27
28	534			50	1860	4.6	0.2	234	56	1920			28
29	535			50	900	2.9	0.6	208	24	—			29
30	82 HHS 536			36	140	2.6	0.6	550	22	2880			30
31	537			2	100	0.5	0.2	16	2	—			31
32	538			76	340	3.7	1.4	1040	24	3980			32
33	539			58	240	3.0	1.6	840	20	—			33
34	540			46	160	2.4	1.4	266	14	5100			34
35	541			46	160	1.8	1.4	272	8	—			35
36	542			40	60	2.7	0.8	212	20	2420			36
37	543			46	150	2.7	1.6	224	10	—			37
38	544			56	300	2.9	1.2	226	16	5200			38
39	82 HHS 545			56	260	3.2	0.6	176	16	—			39
40	~~STD Fe~~			~~74~~	~~300~~	~~2.9~~	~~0.2~~	~~146~~	~~16~~				40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

[Signature]

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82258-27

INVOICE NO.

DATE ANALYSED OCT. 26, 1982

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	82 HHS 546			192	580	6.6	1.4	254	44	8200				01
02	547			114	780	5.7	1.2	200	36	-				02
03	548			74	220	3.4	0.2	114	20	2600				03
04	549			120	220	5.2	0.4	480	38	-				04
05	550			54	190	6.5	1.2	800	20	4300				05
06	551			96	100	4.7	0.6	860	34	-				06
07	552			28	280	1.0	0.4	1260	44	210,000				07
08	553			284	200	10.0	3.4	346	2	-				08
09	554			140	160	3.5	3.4	354	96	210,000				09
10	82 HHS 555			68	40	3.5	2.6	144	80	-				10
11	556			98	110	3.2	2.6	320	60	2860				11
12	557			122	190	3.0	2.2	264	10	-				12
13	558			42	150	0.8	1.0	680	8	210,000				13
14	559			160	360	6.4	1.4	1120	52	-				14
15	560			46	90	1.3	1.8	104	48	2400				15
16	561			48	800	5.0	2.0	1320	30	-				16
17	562			74	220	3.6	1.0	398	26	2020				17
18	563			82	340	4.1	1.6	234	24	-				18
19	82 HHS 564			100	420	4.6	2.0	720	46	4900				19
20	A			24	440	2.6	0.2	36	20	1720				20
21	82 HHS 565			64	300	3.0	1.2	160	22	-				21
22	566			46	220	2.8	1.0	134	24	3900				22
23	567			200	300	4.3	0.8	276	26	-				23
24	568			74	100	3.2	1.8	140	84	1140				24
25	569			64	90	3.3	1.0	226	32	-				25
26	570			52	840	4.4	1.0	140	26	5500				26
27	571			54	1220	5.3	0.2	198	38	-				27
28	572			60	860	4.9	0.6	444	30	2120				28
29	573			74	500	4.3	1.0	690	30	-				29
30	82 HHS 574			104	400	3.2	1.8	2750	30	2160				30
31	575			278	90	3.1	6.6	1260	38	-				31
32	576			136	260	3.0	2.6	2000	26	3460				32
33	577			110	220	2.8	1.8	1960	24	-				33
34	578			96	170	2.9	1.4	1920	22	4200				34
35	579			56	340	3.4	0.8	710	22	-				35
36	580			38	260	3.4	0.2	198	20	3540				36
37	581			30	130	2.5	0.2	120	10	-				37
38	582			44	380	3.9	0.2	252	26	2520				38
39	82 HHS 583			134	2200	7.6	1.2	430	48	-				39
40	A			22	420	2.4	0.2	34	20	-				40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

P. Rossbacher

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82258-28

INVOICE NO.

DATE ANALYSED OCT. 21, 1982

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	82 HHS 584			74	150	3.7	0.8	368	60	2160				01
02	585			24	70	1.2	0.2	54	6	—				02
03	586			106	320	3.8	1.0	254	28	3960				03
04	587			64	130	2.9	0.6	256	24	—				04
05	588			46	300	2.8	0.6	240	18	4800				05
06	589			64	120	3.1	1.0	190	14	—				06
07	590			102	190	3.6	1.6	178	22	7900				07
08	591			32	280	2.5	4.4	136	96	—				08
09	592			34	190	2.7	1.8	130	56	1280				09
10	82 HHS 593			94	240	2.7	1.8	492	40	—				10
11	594			72	160	1.9	2.0	1060	18	1660				11
12	595			40	70	1.6	1.2	640	12	—				12
13	596			94	100	1.9	2.4	1680	12	1620				13
14	597			60	110	2.7	1.4	430	18	—				14
15	598			58	130	4.2	1.4	320	20	8800				15
16	599			108	160	4.7	1.6	424	24	—				16
17	600			44	120	3.2	0.8	232	14	2820				17
18	601			90	220	3.1	2.0	960	28	—				18
19	82 HHS 602			30	70	2.4	0.6	170	24	1720				19
20	~~STD A~~			~~22~~	~~400~~	~~2.4~~	~~0.2~~	~~34~~	~~18~~	~~1740~~				20
21	82 HHS 603			50	300	3.1	1.8	254	18	—				21
22	604			66	280	3.3	1.4	192	20	5200				22
23	605			52	220	2.8	0.8	180	16	—				23
24	606			90	620	5.0	0.4	134	22	2000				24
25	607			196	60	2.6	0.4	296	14	—				25
26	608			32	220	2.5	0.2	96	10	1520				26
27	609			118	180	7100	3.8	306	86	—				27
28	610			120	540	5.0	1.4	620	38	2340				28
29	611			44	380	3.2	0.6	186	16	—				29
30	82 HHS 612			46	520	5.0	0.4	182	28	6400				30
31	613			46	700	5.7	0.2	130	16	—				31
32	614			228	180	2.5	5.2	3750	40	3220				32
33	615			218	170	1.6	3.8	2950	40	—				33
34	616			54	320	2.2	1.0	820	16	3440				34
35	617			14	80	1.1	0.2	460	14	—				35
36	618			56	240	2.0	0.2	140	14	1100				36
37	619			28	40	2.6	1.4	86	26	—				37
38	620			96	90	3.1	2.0	200	26	1000				38
39	82 HHS 621			106	120	4.2	4.2	456	82	—				39
40	~~STD A~~			~~24~~	~~400~~	~~2.5~~	~~0.2~~	~~36~~	~~20~~					40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

P. Rossbach

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82258-29

INVOICE NO.

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

DATE ANALYSED OCT. 26, 1982

PROJECT 57025

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Be		No.
01	82 HHS 622			68	2000	7.2	1.2	1200	80	7800		01
02	623			66	80	3.1	1.0	446	56	-		02
03	624			114	580	3.1	3.2	4400	12	2260		03
04	625			78	420	2.1	0.8	338	14	-		04
05	626			80	400	2.4	0.6	260	16	3000		05
06	627			80	320	4.7	1.4	172	34	-		06
07	628			86	700	6.1	0.8	346	42	4500		07
08	629			68	660	4.7	1.0	324	106	-		08
09	630			132	320	5.2	2.2	610	100	2040		09
10	82 HHS 631			70	280	3.6	1.8	244	26	-		10
11	632			146	180	4.4	3.4	380	166	1800		11
12	633			98	110	2.5	5.2	254	24	-		12
13	634			210	720	6.2	3.0	510	42	3600		13
14	635			32	100	2.0	0.6	266	8	-		14
15	636			94	70	1.7	3.6	600	14	1640		15
16	637			210	780	3.2	7.0	1680	32	-		16
17	638			42	110	4.6	1.0	144	78	2400		17
18	639			122	680	5.7	0.6	308	40	-		18
19	82 HHS 640			76	180	6.0	1.4	196	68	3160		19
20	B			154	150	1.0	1.0	142	100	1600		20
21	82 HHS 641			150	780	2.8	4.4	1660	28	-		21
22	642			158	220	2.2	3.2	1680	20	2120		22
23	643			166	500	4.3	2.4	1260	28	-		23
24	644			186	540	3.8	2.0	1540	24	2860		24
25	645			116	300	4.1	2.2	400	20	-		25
26	646			90	480	3.9	1.4	690	16	7200		26
27	647			100	240	3.2	1.6	1320	20	-		27
28	648			24	220	2.3	0.2	178	10	5300		28
29	649			56	280	3.3	0.6	270	16	-		29
30	82 HHS 650			154	420	2.4	2.8	1840	20	1840		30
31	651			134	300	2.4	2.6	3100	18	-		31
32	652			126	620	4.3	0.8	1280	20	5300		32
33	653			34	90	1.0	0.8	840	6	-		33
34	654			116	460	3.8	1.0	384	30	2700		34
35	655			24	110	1.4	0.4	100	14	-		35
36	656			98	320	3.0	1.6	344	32	2000		36
37	657			132	340	4.1	1.8	570	46	-		37
38	658			190	580	6.7	1.0	172	30	8600		38
39	82 HHS 659			90	460	4.3	0.4	336	30	-		39
40	B			152	140	2.9	1.0	142	96	-		40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

P. Rossbacher

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

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

CERTIFICATE NO. 82258-30
INVOICE NO.
DATE ANALYSED OCT. 26, 1982
PROJECT 57025

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba		No.
01	82 HHS 660			120	440	5.0	0.6	306	30	1600		01
02	661			160	1700	6.8	1.4	390	30	-		02
03	662			116	520	5.0	0.8	216	18	1920		03
04	663			142	280	4.8	2.0	400	36	-		04
05	664			118	520	3.9	1.6	1580	32	2800		05
06	665			90	720	4.1	2.6	1960	30	-		06
07	666			70	190	1.9	1.2	610	20	2200		07
08	667			56	190	2.5	1.4	680	22	-		08
09	668			76	340	1.8	2.4	1220	34	1680		09
10	82 HHS 669			82	200	3.5	1.2	332	18	-		10
11	670			66	170	2.5	1.0	560	14	3960		11
12	671			22	140	1.5	0.6	102	10	-		12
13	672			116	420	8.2	1.0	268	124	1680		13
14	673			34	120	2.4	0.4	186	18	-		14
15	674			64	320	3.4	0.6	360	18	2880		15
16	675			86	420	3.6	1.0	570	16	-		16
17	676			226	5000	4.5	3.4	580	36	2500		17
18	82 HHS 677			180	120	6.9	4.8	84	36	-		18
19	C			186	200	1.3	0.8	118	80	1600		19
36	1 678			8	20	0.3	0.4	208	50	960		20
37	679			8	60	1.5	0.6	32	6	1260		21
38	6..											22
39	82 PHS 680			24	60	3.0	2.2	74	24	7000		23
40	A			24	420	2.3	0.2	46	18			24

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

P. Rossbacher

29												29
30												30
31												31
32												32
33												33
34												34
35												35
36												36
37												37
38												38
39												39
40												40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

P. Rossbacher

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

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

CERTIFICATE NO. 82258-39
INVOICE NO.
DATE ANALYSED OCT. 12, 1987
PROJECT 57025

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba				No.
01	82 HOS 1120					2.6	0.4	170	16	1600				01
02	L 1121					3.8	0.2	172	10	3180				02
03	S 1122					2.2	0.4	126	8	1900				03
04	1123					3.5	0.6	58	12	-				04
05	1124					2.8	1.6	124	18	1040				05
06	1125					2.8	0.6	180	14	-				06
07	1126					2.5	1.2	156	8	1480				07
08	1127					1.9	0.2	52	10	-				08
09	1128					3.1	0.8	482	12	2160				09
10	82 HOS 1129					1.3	0.2	36	8	-				10
11	1130					2.3	0.2	112	12	2040				11
12	L 1131					3.6	0.6	358	14	3060				12
13	S 1132					2.0	0.6	122	16	1100				13
14	1133					4.0	0.8	730	18	-				14
15	1134					2.7	0.4	240	12	2820				15
16	1135					2.1	0.2	64	10	-				16
17	1136					4.6	1.0	1120	24	5300	-			17
18	1137					1.7	1.0	104	58	-				18
19	82 HOS 1138					5.2	0.2	180	30	1960				19
20	~~A~~					~~2.5~~	~~0.2~~	~~40~~	~~20~~	~~1580~~				20
21	82 HOS 1139					1.2	0.2	32	6	-				21
22	1140					3.4	1.2	60	26	1480				22
23	1141					4.3	1.6	294	44	-				23
24	1142					6.5	0.8	394	30	2900				24
25	1143					3.2	0.8	650	24	-				25
26	1144					4.9	1.4	456	44	5500				26
27	1145					4.1	1.2	412	34	-				27
28	1146					3.8	1.0	398	28	3920				28
29	1147					3.3	3.0	154	18	-				29
30	82 HOS 1148					3.4	1.8	158	24	2700				30
31	1149					1.8	0.8	76	10	-				31
32	1150					2.6	1.0	82	12	1840				32
33	1151					2.2	4.2	58	8	-				33
34	1152					2.5	1.0	82	10	2280				34
35	1153					2.4	0.2	100	12	-				35
36	1154					3.1	0.6	50	2	920				36
37	1155					9.9	0.6	288	12	-				37
38	L 1156					4.2	1.0	472	36	5900				38
39	82 HOS 1157					8.3	0.8	66	18	-				39
40	~~A~~					~~2.4~~	~~0.2~~	~~40~~	~~18~~					40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

C. Rossbach

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82258-40

INVOICE NO.

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

DATE ANALYSED OCT. 18/82

PROJECT 57025

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba				No.
01	82 HOS 1158			100	1340	9.1	0.2	74	12	5700				01
02	1159			64	400	5.3	0.2	880	34	-				02
03	1160			8	50	0.8	0.2	16	2	1240				03
04	1161			92	150	2.6	0.4	254	22	-				04
05	1162			94	260	4.3	1.0	274	78	3480				05
06	1163			32	100	2.4	0.2	70	40	-				06
07	1164			72	360	4.3	0.4	178	76	1760				07
08	1165			60	240	3.9	0.2	136	62	-				08
09	1166			48	150	2.9	0.2	84	26	1360				09
10	82 HOS 1167			72	340	4.8	0.2	212	70	-				10
11	1168			20	90	1.5	0.2	28	6	1140				11
12	1169			74	280	7.3	0.2	158	26	-				12
13	1170			76	260	6.7	0.2	154	34	1360				13
14	1171			68	240	4.9	0.2	114	28	-				14
15	1172			38	130	2.4	0.2	58	12	1320				15
16	1173			62	280	5.2	0.6	126	28	-				16
17	1174			60	190	5.2	0.4	118	28	1220				17
18	1175			16	60	1.3	0.2	26	6	-				18
19	82 HOS 1176			42	80	2.6	0.6	56	32	1060				19
20	~~STD F~~			78	280	2.8	0.2	146	18	1660				20
21	82 HOS 1177			40	240	3.8	0.2	144	34	-				21
22	1178			86	360	5.6	0.4	260	42	7600				22
23	1179			28	100	1.7	0.4	104	8	-				23
24	1180			24	50	1.5	0.4	92	8	2820				24
25	1181			20	40	1.1	0.2	74	6	-				25
26	1182			46	100	2.4	0.2	172	14	2980				26
27	1183			28	60	1.5	0.2	64	6	-				27
28	1184			172	500	4.1	0.4	114	26	2620				28
29	1185			62	100	1.9	1.6	72	14	-				29
30	82 HOS 1186			94	160	2.6	1.4	136	22	2840				30
31	1187			132	120	3.5	2.2	126	22	-				31
32	1188			490	780	6.7	5.0	720	28	2880				32
33	1189			146	160	4.3	1.8	256	22	-				33
34	1190			158	100	3.5	3.4	182	20	2020				34
35	1191			74	130	2.3	1.8	72	20	-				35
36	1192			66	120	2.3	0.4	126	16	2500				36
37	1193			30	30	1.2	1.8	50	8	-				37
38	1194			82	130	3.6	1.0	214	44	3460				38
39	82 HOS 1195			34	50	1.5	0.8	44	8	-				39
40	~~STD F~~			74	280	2.7	0.2	146	18	-				40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

C. Rossbacher

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

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

CERTIFICATE NO. 82258-41
INVOICE NO.
DATE ANALYSED OCT. 18/82
PROJECT 57025

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba		No.
01	82 HOS 1196			58	140	2.6	0.6	58	12	1420		01
02	1197			20	70	1.2	0.2	64	6	-		02
03	1198			66	360	3.4	0.2	250	22	3260		03
04	1199			42	170	1.9	0.6	194	12	-		04
05	1200			90	280	3.6	1.4	3040	28	7700		05
06	1201			28	260	2.2	0.2	100	16	-		06
07	1202			60	150	3.0	0.6	250	28	6300		07
08	1203			62	960	4.8	0.6	402	72	-		08
09	1204			76	820	5.8	0.8	446	82	2000		09
10	82 HOS 1205			64	660	4.5	0.6	378	58	-		10
11	1206			36	840	4.1	0.2	252	46	1580		11
12	1207			28	660	3.0	0.2	200	58	-		12
13	1208			62	1020	7.6	0.8	416	184	280		13
14	1209			24	420	1.9	0.2	82	18	-		14
15	1210			56	1060	7.1	0.2	378	126	1860		15
16	1211			44	150	2.3	0.6	94	12	-		16
17	1212			26	100	1.7	0.2	54	10	1120		17
18	1213			12	90	1.1	0.2	36	6	-		18
19	82 HOS 1214			44	260	2.6	0.2	90	18	1180		19
20	~~SID A~~			~~24~~	~~440~~	~~2.4~~	~~0.2~~	~~74~~	~~20~~	~~1820~~		20
21	82 HOS 1215			26	150	1.9	0.2	62	10	-		21
22	1216			68	820	6.7	0.2	194	84	2660		22
23	1217			34	80	2.9	0.2	108	42	-		23
24	1218			32	170	2.1	0.4	124	30	3280		24
25	1219			14	340	1.0	0.2	248	6	-		25
26	1220			24	60	1.7	0.2	204	20	3480		26
27	1221			16	1500	1.1	0.2	70	14	-		27
28	1222			108	90	2.0	1.4	2380	18	4300		28
29	1223			44	110	1.0	0.4	432	8	-		29
30	82 HOS 1224			24	80	1.6	0.2	96	6	1820		30
31	1225			104	200	3.6	2.0	170	92	-		31
32	1226			76	120	3.3	4.4	132	166	2920		32
33	1227			18	100	1.1	0.2	32	4	-		33
34	1228			46	120	1.4	0.8	48	10	1300		34
35	1229			72	60	1.7	0.6	56	10	-		35
36	1230			70	60	2.6	0.4	60	12	1240		36
37	1231			64	90	3.0	2.0	52	36	-		37
38	1232			100	340	3.1	0.8	94	20	1460		38
39	82 HOS 1233			104	280	3.4	0.8	110	20	-		39
40	~~SID A~~			~~26~~	~~460~~	~~2.5~~	~~0.2~~	~~76~~	~~22~~			40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

P. Rossbacher

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82258-42

INVOICE NO.

DATE ANALYSED OCT. 18, 1982

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	82 HOS 1234			102	220	3.3	0.6	114	16	1720				01
02	1235			106	190	3.5	0.6	138	18	-				02
03	1236			90	260	3.8	1.0	496	20	3300				03
04	1237			94	540	5.1	0.6	580	42	-				04
05	1238			54	440	2.9	0.8	170	20	4900				05
06	1239			34	130	1.4	0.4	76	10	-				06
07	1240			14	60	0.7	0.2	20	2	1520				07
08	1241			62	120	3.0	0.2	314	12	-				08
09	1242			62	130	3.4	0.6	300	18	7600				09
10	82 HOS 1243			48	460	2.8	0.2	284	20	-				10
11	1244			40	170	2.3	0.4	250	12	5400				11
12	1245			198	480	3.3	2.6	600	38	-				12
13	1246			198	580	5.6	1.6	570	34	6500				13
14	1247			122	300	4.2	1.2	362	30	-				14
15	1248			88	620	5.4	0.2	154	12	3380				15
16	1249			218	320	4.4	2.4	640	58	-				16
17	1250			244	760	6.1	1.6	730	22	5200				17
18	5 1251			126	440	4.7	2.0	376	54	-				18
19	82 HOS 1252			88	500	6.4	1.0	274	62	3340				19
20	~~STD B~~			~~120~~	~~120~~	~~0.8~~	~~0.8~~	~~134~~	~~92~~	~~1660~~				20
21	82 HOS 1253			86	480	5.4	0.8	332	72	-				21
22	1254			112	440	3.7	2.0	390	44	8600				22
23	1255			102	380	3.9	1.6	378	50	-				23
24	1256			176	460	5.0	2.4	454	46	7600				24
25	1257			178	340	4.2	2.4	520	40	-				25
26	1258			158	300	4.1	2.8	484	42	9400				26
27	1259			134	260	4.1	1.6	446	30	-				27
28	1260			140	260	3.9	2.4	458	38	9200				28
29	1261			168	280	3.9	1.6	488	30	-				29
30	82 HOS 1262			46	260	2.4	0.4	194	24	4700				30
31	1263			46	260	2.4	0.2	198	22	-				31
32	1264			60	90	2.2	1.0	268	20	5000				32
33	1265			78	240	4.0	1.0	432	78	-				33
34	1266			56	110	2.3	0.6	136	24	5000				34
35	1267			76	100	2.5	1.8	150	26	-				35
36	1268			46	90	1.6	0.8	100	22	2560				36
37	1269			98	200	2.5	2.0	180	28	-				37
38	1270			160	140	3.6	2.8	282	36	4700				38
39	82 HOS 1271			20	50	1.0	0.2	74	12	-				39
40	~~STD B~~			~~140~~	~~130~~	~~0.9~~	~~0.2~~	~~132~~	~~88~~	~~-~~				40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

P. Rossbach

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82258-43

INVOICE NO.

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

DATE ANALYSED OCT. 18, 1982

PROJECT 57025

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba				No.
01	82 HOS 1272			64	140	2.4	1.4	368	34	3980				01
02	1273			86	260	3.1	1.0	212	30	-				02
03	1274			120	440	4.3	0.6	304	24	2680				03
04	1275			44	100	2.2	0.6	212	58	-				04
05	1276			56	170	2.6	0.4	358	58	3880				05
06	1277			46	150	2.4	0.8	320	34	-				06
07	1278			52	130	2.4	1.4	210	30	4100				07
08	1279			70	150	2.6	1.0	192	30	-				08
09	1280			62	140	2.4	1.0	180	36	3740				09
10	82 HOS 1281			94	560	3.7	1.0	218	32	-				10
11	1282			90	600	4.2	1.2	184	24	4700				11
12	1283			94	480	3.5	1.2	186	26	-				12
13	1284			50	110	2.0	0.2	120	12	3640				13
14	1285			26	90	1.5	0.4	124	8	-				14
15	1286			58	140	2.4	1.0	276	18	6400				15
16	1287			16	60	1.1	0.6	52	6	-				16
17	1288			16	40	0.5	0.4	20	4	1200				17
18	1289			106	500	4.2	0.6	362	30	-				18
19	82 HOS 1290			36	840	6.2	0.2	148	2	2060				19
20	~~STD D~~			~~120~~	~~80~~	~~0.8~~	~~4.0~~	~~490~~	~~102~~	~~1740~~				20
21	82 HOS 1291			118	440	4.4	0.8	268	26	-				21
22	1292			82	160	2.8	1.2	174	22	3120				22
23	1293			146	380	4.8	1.2	364	36	-				23
24	1294			120	560	5.0	1.0	316	30	2640				24
25	1295			82	840	5.2	1.0	310	28	-				25
26	1296			70	460	3.8	0.6	286	34	2100				26
27	1297			152	2140	9.4	3.8	720	100	-				27
28	1298			104	120	3.4	1.8	550	46	5000				28
29	1299			80	240	3.8	0.4	268	24	-				29
30	82 HOS 1300			94	200	3.8	0.8	306	28	4100				30
31	1301			96	460	3.6	1.0	444	40	-				31
32	1302			104	500	5.7	1.0	306	36	4100				32
33	1303			62	260	3.6	1.2	342	24	-				33
34	1304			86	280	3.0	0.8	300	28	5600				34
35	1305			60	60	2.5	1.2	420	52	-				35
36	1306			44	100	2.9	0.8	408	16	8600				36
37	1307			52	90	2.6	0.2	194	20	-				37
38	1308			78	280	3.1	0.8	310	20	6400				38
39	82 HOS 1309			40	60	2.2	0.2	444	10	-				39
40	~~STD D~~			~~126~~	~~70~~	~~0.9~~	~~4.0~~	~~510~~	~~104~~					40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

C. Rossbach

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. **82258-44**
INVOICE NO.

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

DATE ANALYSED **OCT. 20 / 82**
PROJECT **57025**

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba				No.
01	82 HOS 1310			18	80	1.5	0.2	146	8	3220				01
02	1311			68	320	4.6	1.2	258	36	-				02
03	1312			84	520	6.0	1.2	328	38	710,000				03
04	1313			74	280	5.0	1.4	280	34	-				04
05	1314			44	1000	3.3	0.2	220	16	4400				05
06	1315			42	120	2.7	0.2	188	20	-				06
07	1316			44	140	2.6	0.2	292	20	3660				07
08	1317			84	640	6.4	0.2	418	18	-				08
09	1318			48	320	4.0	0.2	366	10	3900				09
10	82 HOS 1319			60	200	3.7	0.2	338	14	-				10
11	1320			52	140	2.6	0.2	228	8	3580				11
12	1321			24	40	1.7	0.2	130	6	-				12
13	1322			60	260	3.4	0.8	302	16	5900				13
14	1323			62	240	3.1	0.4	540	22	-				14
15	1324			44	110	2.4	0.8	352	18	9800				15
16	1325			68	190	2.7	0.4	484	12	-				16
17	1326			50	130	2.9	0.2	312	22	4200				17
18	1327			42	100	2.1	0.6	432	12	-				18
19	~~82 HOS 1328~~			~~10~~	~~160~~	~~1.1~~	~~0.2~~	~~100~~	~~8~~	~~3140~~				19
20	~~SPD D~~			~~124~~	~~70~~	~~0.9~~	~~4.0~~	~~510~~	~~102~~	~~1640~~				20
21	82 HOS 1329			26	100	1.7	0.4	182	14	-				21
22	1330			70	300	3.9	0.8	330	26	6100				22
23	1331			60	170	4.3	0.4	258	22	-				23
24	1332			40	50	2.0	0.2	92	12	3120				24
25	1333			92	380	4.7	0.8	310	60	-				25
26	1334			114	400	5.2	0.6	182	24	2640				26
27	1335			136	700	6.1	0.4	142	20	-				27
28	1336			130	660	6.0	0.4	138	20	2280				28
29	1337			124	620	6.4	0.4	146	18	-				29
30	82 HOS 1338			134	560	5.5	0.6	116	26	2040				30
31	1339			232	680	6.4	2.6	760	42	-				31
32	1340			242	340	5.3	3.0	580	44	7500				32
33	1341			276	460	6.2	2.6	600	42	-				33
34	1342			192	400	4.7	1.8	406	30	4900				34
35	1343			194	720	7.1	1.2	550	30	-				35
36	1344			148	700	7.3	0.8	274	20	3100				36
37	1345			24	110	1.4	0.4	66	10	-				37
38	1346			36	170	2.5	0.2	126	16	2300				38
39	82 HOS 1347			86	140	3.9	0.8	198	38	-				39
40	~~SPD D~~			~~118~~	~~70~~	~~0.9~~	~~4.0~~	~~500~~	~~98~~					40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

C. Rossbach

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82258-45

INVOICE NO.

DATE ANALYSED OCT. 18/81

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	82 HOS 1348			26	50	1.9	0.4	66	2	1960				01
02	1349			60	220	2.6	0.2	194	22	-				02
03	1350			50	160	2.6	0.2	230	30	4600				03
04	1351			28	70	1.2	0.2	368	4	-				04
05	1352			40	140	2.3	0.2	138	10	4000				05
06	1353			54	300	3.3	0.2	244	26	-				06
07	1354			18	90	1.2	0.2	220	4	2600				07
08	1355			42	130	2.6	0.2	700	10	-				08
09	1356			64	280	2.9	0.4	960	14	3880				09
10	82 HOS 1357			46	200	2.4	0.2	680	14	-				10
11	1358			18	70	1.2	0.2	190	2	1720				11
12	1359			78	240	3.4	0.4	264	10	-				12
13	1360			106	400	3.7	0.8	570	20	4300				13
14	1361			142	460	4.0	0.8	384	34	-				14
15	1362			34	80	2.4	0.2	316	20	2940				15
16	1363			48	140	2.7	0.2	306	12	-				16
17	1364			24	30	1.6	0.2	152	8	1960				17
18	1365			70	200	2.8	0.4	530	26	-				18
19	82 HOS 1366			96	440	3.8	0.4	750	30	3940				19
20	~~STD C~~			~~186~~	~~180~~	~~1.3~~	~~0.6~~	~~114~~	~~80~~	~~1620~~				20
21	82 HOS 1367			88	440	3.4	0.6	670	26	-				21
22	1368			68	110	2.1	0.2	158	14	3420				22
23	1369			30	300	1.6	0.2	148	22	-				23
24	1370			38	120	1.7	1.4	148	38	4300				24
25	1371			48	130	2.3	0.2	164	66	-				25
26	1372			32	70	1.9	0.2	78	18	3660				26
27	1373			102	560	4.0	0.8	610	44	-				27
28	1374			78	120	2.4	1.2	690	12	5800				28
29	1375			102	260	3.0	1.8	670	18	-				29
30	82 HOS 1376			74	400	3.5	1.2	1020	20	3680				30
31	1377			100	130	2.7	0.2	630	12	-				31
32	1378			56	200	2.6	0.2	496	16	1980				32
33	1379			72	280	3.2	0.6	298	28	-				33
34	1380			58	160	2.3	0.6	800	2	>10,000				34
35	1381			86	190	2.0	0.8	1040	12	-				35
36	1382			56	360	4.1	0.2	140	14	7500				36
37	1383			54	110	2.8	0.2	206	32	-				37
38	1384			40	150	2.0	0.6	138	84	1800				38
39	82 HOS 1385			124	170	4.1	0.2	206	16	-				39
40	~~STD C~~			~~178~~	~~180~~	~~1.2~~	~~0.6~~	~~112~~	~~82~~	~~-~~				40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

P. Rossbacher

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82258-46

INVOICE NO.

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

DATE ANALYSED OCT. 17, 1982

PROJECT 57025

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba				No.
01	82 HOS 1386			32	340	3.7	0.2	120	10	8100				01
02	1387			84	200	2.7	0.4	186	14	—				02
03	1388			80	90	2.8	0.2	160	14	3620				03
04	1389			26	100	1.8	0.2	86	10	—				04
05	1390			66	320	2.9	0.2	142	20	2000				05
06	1391			54	220	2.6	0.4	98	12	—				06
07	1392			90	680	5.7	0.6	212	30	4300				07
08	1393			86	100	3.2	0.2	182	20	—				08
09	1394			14	260	1.1	0.2	66	4	1120				09
10	82 HOS 1395			22	400	1.8	0.2	38	4	—				10
11	1396			58	620	4.7	0.4	134	22	6200				11
12	1397			100	300	3.5	0.4	118	8	—				12
13	1398			104	260	3.4	1.0	368	36	2480				13
14	1399			54	500	2.6	0.4	510	14	—				14
15	1400			158	160	1.8	2.4	1880	14	3360				15
16	1401			174	360	8.0	1.0	376	20	—				16
17	1402			136	220	8.1	2.0	196	60	1440				17
18	1403			164	320	8.1	2.0	182	46	—				18
19	82 HOS 1404			152	220	5.6	0.4	178	44	1720				19
20	A			24	420	2.3	0.2	34	20	1700				20
21	82 HOS 1405			102	300	4.0	0.6	108	26	—				21
22	1406			64	640	2.7	0.2	88	24	1400				22
23	1407			176	1520	4.2	0.6	196	52	—				23
24	1408			114	900	5.7	2.4	138	54	1640				24
25	1409			160	2580	5.2	1.0	198	74	—				25
26	1410			342	10000	7.8	3.8	690	226	2280				26
27	1411			178	860	5.9	2.0	170	42	—				27
28	1412			28	90	1.6	1.4	48	12	980				28
29	1413			28	80	1.2	0.4	332	10	—				29
30	82 HOS 1414			94	160	1.8	1.4	1980	14	5300				30
31	1415			62	220	1.8	0.4	670	12	—				31
32	1416			26	220	2.2	0.2	140	18	1880				32
33	1417			26	80	1.9	0.2	102	34	—				33
34	1418			64	160	2.6	0.8	224	22	2680				34
35	1419			34	90	2.5	0.2	124	24	—				35
36	1420			34	320	1.9	0.2	116	20	2360				36
37	1421			50	240	2.5	0.6	178	32	—				37
38	1422			46	280	2.9	0.2	160	26	3360				38
39	82 HOS 1423			62	320	3.2	0.6	420	36	—				39
40	A			24	420	2.3	0.2	34	18	—				40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

[Signature]

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

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

CERTIFICATE NO. *82258-47*
INVOICE NO.
DATE ANALYSED *OCT. 17, 1982*
PROJECT *57025*

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba				No.
01	<i>82 HOS 1424</i>			<i>84</i>	<i>600</i>	<i>3.6</i>	<i>0.4</i>	<i>600</i>	<i>44</i>	<i>3520</i>				01
02	<i>1425</i>			<i>66</i>	<i>190</i>	<i>4.5</i>	<i>0.2</i>	<i>182</i>	<i>38</i>	<i>-</i>				02
03	<i>1426</i>			<i>42</i>	<i>80</i>	<i>3.1</i>	<i>0.2</i>	<i>176</i>	<i>26</i>	<i>2580</i>				03
04	<i>1427</i>			<i>44</i>	<i>480</i>	<i>5.2</i>	<i>0.2</i>	<i>230</i>	<i>40</i>	<i>-</i>				04
05	<i>1428</i>			<i>100</i>	<i>580</i>	<i>4.0</i>	<i>0.2</i>	<i>840</i>	<i>52</i>	<i>3800</i>				05
06	<i>1429</i>			<i>92</i>	<i>200</i>	<i>2.1</i>	<i>0.8</i>	<i>920</i>	<i>16</i>	<i>-</i>				06
07	<i>1430</i>			<i>86</i>	<i>260</i>	<i>2.0</i>	<i>0.8</i>	<i>1240</i>	<i>18</i>	<i>5900</i>				07
08	<i>1431</i>			<i>124</i>	<i>580</i>	<i>6.3</i>	<i>2.0</i>	<i>362</i>	<i>26</i>	<i>-</i>				08
09	<i>1432</i>			<i>66</i>	<i>160</i>	<i>6.5</i>	<i>2.0</i>	<i>222</i>	<i>34</i>	<i>19000</i>				09
10	<i>82 HOS 1433</i>			<i>102</i>	<i>540</i>	<i>5.4</i>	<i>0.8</i>	<i>266</i>	<i>26</i>	<i>-</i>				10
11	<i>1434</i>			<i>124</i>	<i>460</i>	<i>5.7</i>	<i>0.6</i>	<i>228</i>	<i>40</i>	<i>3200</i>				11
12	<i>1435</i>			<i>160</i>	<i>260</i>	<i>8.8</i>	<i>0.6</i>	<i>272</i>	<i>62</i>	<i>-</i>				12
13	<i>1436</i>			<i>142</i>	<i>460</i>	<i>5.9</i>	<i>0.6</i>	<i>212</i>	<i>48</i>	<i>2460</i>				13
14	<i>1437</i>			<i>104</i>	<i>400</i>	<i>5.0</i>	<i>0.4</i>	<i>144</i>	<i>46</i>	<i>-</i>				14
15	<i>1438</i>			<i>162</i>	<i>440</i>	<i>6.1</i>	<i>0.6</i>	<i>226</i>	<i>50</i>	<i>2240</i>				15
16	<i>1439</i>			<i>154</i>	<i>1140</i>	<i>4.1</i>	<i>0.6</i>	<i>232</i>	<i>46</i>	<i>-</i>				16
17	<i>1440</i>			<i>50</i>	<i>300</i>	<i>1.8</i>	<i>0.6</i>	<i>56</i>	<i>14</i>	<i>1180</i>				17
18	<i>1441</i>			<i>64</i>	<i>380</i>	<i>2.3</i>	<i>0.8</i>	<i>82</i>	<i>22</i>	<i>-</i>				18
19	<i>82 HOS 1442</i>			<i>40</i>	<i>120</i>	<i>1.1</i>	<i>0.4</i>	<i>36</i>	<i>16</i>	<i>1120</i>				19
20	~~<i>STD B</i>~~			~~<i>152</i>~~	~~<i>140</i>~~	~~<i>0.8</i>~~	~~<i>0.8</i>~~	~~<i>150</i>~~	~~<i>102</i>~~	~~<i>1680</i>~~				20
21	<i>82 HOS 1443</i>			<i>34</i>	<i>130</i>	<i>3.4</i>	<i>0.6</i>	<i>68</i>	<i>28</i>	<i>-</i>				21
22	<i>1444</i>			<i>186</i>	<i>400</i>	<i>7.2</i>	<i>0.8</i>	<i>252</i>	<i>96</i>	<i>1820</i>				22
23	<i>1445</i>			<i>94</i>	<i>380</i>	<i>6.0</i>	<i>1.4</i>	<i>174</i>	<i>44</i>	<i>-</i>				23
24	<i>1446</i>			<i>172</i>	<i>660</i>	<i>5.1</i>	<i>0.6</i>	<i>218</i>	<i>62</i>	<i>2060</i>				24
25	<i>1447</i>			<i>190</i>	<i>3140</i>	<i>5.3</i>	<i>0.8</i>	<i>254</i>	<i>66</i>	<i>-</i>				25
26	<i>1448</i>			<i>272</i>	<i>2240</i>	<i>6.9</i>	<i>1.6</i>	<i>258</i>	<i>86</i>	<i>1800</i>				26
27	<i>1449</i>			<i>304</i>	<i>1380</i>	<i>7.8</i>	<i>1.4</i>	<i>332</i>	<i>86</i>	<i>-</i>				27
28	<i>1450</i>			<i>184</i>	<i>1560</i>	<i>5.0</i>	<i>1.2</i>	<i>204</i>	<i>66</i>	<i>1820</i>				28
29	<i>1451</i>			<i>304</i>	<i>3020</i>	<i>7.0</i>	<i>1.2</i>	<i>394</i>	<i>94</i>	<i>-</i>				29
30	<i>82 HOS 1452</i>			<i>156</i>	<i>220</i>	<i>1.5</i>	<i>2.6</i>	<i>1960</i>	<i>20</i>	<i>4500</i>				30
31	<i>1453</i>			<i>64</i>	<i>240</i>	<i>3.8</i>	<i>1.0</i>	<i>266</i>	<i>12</i>	<i>-</i>				31
32	<i>1454</i>			<i>142</i>	<i>90</i>	<i>1.0</i>	<i>2.0</i>	<i>1420</i>	<i>16</i>	<i>2880</i>				32
33	<i>1455</i>			<i>88</i>	<i>180</i>	<i>2.5</i>	<i>0.2</i>	<i>432</i>	<i>14</i>	<i>-</i>				33
34	<i>1456</i>			<i>174</i>	<i>840</i>	<i>9.4</i>	<i>1.2</i>	<i>376</i>	<i>32</i>	<i>3460</i>				34
35	<i>1457</i>			<i>80</i>	<i>800</i>	<i>5.6</i>	<i>0.8</i>	<i>150</i>	<i>24</i>	<i>-</i>				35
36	<i>1458</i>			<i>16</i>	<i>70</i>	<i>1.4</i>	<i>0.2</i>	<i>64</i>	<i>24</i>	<i>1340</i>				36
37	<i>1459</i>			<i>20</i>	<i>110</i>	<i>2.1</i>	<i>0.4</i>	<i>46</i>	<i>64</i>	<i>-</i>				37
38	<i>1460</i>			<i>22</i>	<i>30</i>	<i>0.6</i>	<i>1.4</i>	<i>24</i>	<i>20</i>	<i>1300</i>				38
39	<i>82 HOS 1461</i>			<i>14</i>	<i>220</i>	<i>1.3</i>	<i>0.2</i>	<i>72</i>	<i>12</i>	<i>-</i>				39
40	~~<i>STD B</i>~~			~~<i>150</i>~~	~~<i>140</i>~~	~~<i>0.8</i>~~	~~<i>0.8</i>~~	~~<i>146</i>~~	~~<i>98</i>~~					40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

A. Rossbacher

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82258-48

INVOICE NO.

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

DATE ANALYSED OCT 17, 1982

PROJECT 57025

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba				No.
01	82 HOS 1462			40	80	3.3	2.4	136	46	1800				01
02	1463			58	340	3.6	0.2	268	26	-				02
03	1464			54	220	3.7	0.2	222	24	2640				03
04	1465			50	280	3.4	0.2	176	26	-				04
05	1466			24	140	2.0	0.2	150	12	2260				05
06	1467			78	580	1.9	0.4	1000	8	-				06
07	1468			44	200	2.9	0.4	172	26	2340				07
08	1469			80	360	3.3	0.4	382	22	-				08
09	1470			92	100	1.8	0.8	318	18	3180				09
10	82 HOS 1471			42	460	3.7	0.2	128	28	-				10
11	1472			36	110	2.8	0.2	86	18	1620				11
12	1473			120	220	2.7	0.4	94	26	-				12
13	1474			172	280	3.8	0.4	120	40	1840				13
14	1475			70	220	4.6	0.4	156	38	-				14
15	1476			32	80	1.8	0.6	50	10	1160				15
16	1477			70	90	2.9	0.4	100	18	-				16
17	1478			86	190	4.5	0.4	120	34	1480				17
18	1479			62	220	3.8	0.4	90	30	-				18
19	82 HOS 1480			60	130	3.2	0.4	74	24	1180				19
20	~~STD Fe~~			~~76~~	~~300~~	~~2.8~~	~~0.2~~	~~148~~	~~18~~	~~1800~~				20
21	82 HOS 1481			40	110	2.2	0.4	46	14	-				21
22	1482			70	120	4.5	0.8	80	32	1180				22
23	1483			46	80	2.2	0.4	52	16	-				23
24	1484			44	150	2.4	0.4	76	24	1280				24
25	1485			194	1000	4.6	0.4	250	86	-				25
26	1486			286	160	2.5	0.6	150	30	1120				26
27	1487			214	380	4.8	0.8	178	54	-				27
28	1488			342	80	3.1	1.6	92	50	1140				28
29	1489			186	320	2.7	1.4	100	34	-				29
30	82 HOS 1490			138	160	2.0	1.2	156	34	3500				30
31	1491			88	100	8.2	2.6	580	74	-				31
32	1492			114	190	2.0	1.4	2400	18	4100				32
33	1493			152	200	2.0	2.0	2600	56	-				33
34	1494			50	480	2.8	0.4	352	30	3080				34
35	~~1495~~			~~296~~	~~3960~~	~~8.2~~	~~1.6~~	~~438~~	~~104~~	~~-~~				35
36	1496			62	320	4.4	0.6	276	24	2660				36
37	1497			22	90	1.9	0.4	56	12	-				37
38	1498			40	620	4.0	0.6	128	96	4400				38
39	82 HOS 1499			40	280	2.9	0.6	186	36	-				39
40	~~STD Fe~~			~~72~~	~~280~~	~~2.7~~	~~0.2~~	~~144~~	~~16~~	~~-~~				40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

P. Rossbach

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

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

CERTIFICATE NO. **82258-49**

INVOICE NO.

DATE ANALYSED **OCT 20, '82**

PROJECT **57025**

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba		No.
01	82 HOS 1500			32	680	2.4	0.2	106	26	1760		01
02	1501			36	180	4.9	0.4	108	40	-		02
03	1502			72	180	2.6	0.8	740	18	3860		03
04	1503			38	120	1.5	0.6	740	10	-		04
05	1504			18	70	1.5	0.4	94	8	1920		05
06	1505			14	60	3.0	0.2	42	16	-		06
07	1506			12	220	2.2	0.2	54	18	1520		07
08	1507			16	220	3.7	0.2	82	28	-		08
09	1508			36	380	4.8	0.2	130	32	1880		09
10	82 HOS 1509			102	380	2.8	2.2	920	18	-		10
11	1510			24	520	1.3	0.8	80	14	1700		11
12	1511			52	200	3.7	0.4	150	24	-		12
13	1512			44	200	2.9	0.6	132	18	6500		13
14	1513			182	780	10.2	1.4	444	66	-		14
15	1514			162	360	7.9	1.8	352	60	>10000		15
16	1516			104	800	7.8	1.0	144	46	1320		16
17	1517			114	340	2.6	1.0	420	28	-		17
18	1518			480	200	2.5	3.6	5000	60	2800		18
19	82 HOS 1519			98	130	2.0	2.2	258	16	-		19
20	1515			106	460	6.4	1.4	760	356	-		20
21	82 HOS 1520			140	140	7.4	1.8	1040	172	>10000		21
22	1521			176	300	>10.0	0.2	296	70	-		22
23	1522			138	280	3.0	0.0	1500	24	5200		23
24	1523			96	220	3.6	1.0	402	38	-		24
25	1524			48	160	2.2	0.4	620	40	2560		25
26	1526			120	540	6.8	1.8	350	42	7500		26
27	1528			98	440	5.2	2.2	372	242	-		27
28	1528			56	170	3.6	0.6	314	54	2720		28
29	1529			78	320	3.9	1.0	392	132	-		29
30	82 HOS 1530			30	110	2.8	0.2	196	36	1820		30
31	1531			48	440	4.5	0.2	312	52	-		31
32	1532			32	540	2.9	0.2	210	26	1520		32
33	1533			46	3520	5.5	0.2	1800	36	-		33
34	1534			70	1840	4.0	0.8	1640	24	2600		34
35	1535			54	190	1.5	0.8	1220	12	-		35
36	1536			98	70	1.5	1.2	960	14	2260		36
37	1537			66	220	3.1	0.2	580	22	-		37
38	1538			54	260	3.3	0.8	310	50	3380		38
39	82 HOS 1539			94	150	5.7	1.8	304	26	-		39
40	1525			60	220	2.9	1.0	296	16	-		40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

P. Rossbach

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

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

CERTIFICATE NO. **82258-50**

INVOICE NO.

DATE ANALYSED **OCT. 21, 198**

PROJECT **57025**

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba			No.
01	82 HDS 1540			60	380	4.6	1.2	358	22	3220			01
02	1541			132	520	7.2	1.8	1200	26	—			02
03	1542			74	300	2.9	0.4	580	18	3440			03
04	1543			132	190	2.5	2.8	3550	44	—			04
05	1544			160	220	3.5	3.2	2700	32	>10,000			05
06	1545			110	170	>10.0	1.6	366	50	—			06
07	1546			116	110	>10.0	1.8	340	64	5,800			07
08	1547			100	280	6.3	1.4	182	54	—			08
09	1548			26	60	1.6	0.4	36	12	1080			09
10	82 HDS 1549			18	60	1.0	0.2	20	8	—			10
11	1550			20	60	1.0	0.4	20	6	900			11
12	1551			96	320	3.8	0.4	122	36	—			12
13	1552			20	30	0.5	0.2	10	4	840			13
14	1553			294	800	>10.0	1.2	262	100	—			14
15	1554			202	220	7.0	1.2	172	56	1480			15
16	1555			286	320	>10.0	1.8	268	84	—			16
17	1556			212	180	>10.0	1.8	200	62	1920			17
18	1557			204	220	>10.0	1.0	334	74	—			18
19	82 HDS 1558			158	200	>10.0	1.0	412	80	1200			19
20	STD E			76	280	2.8	0.2	148	16	1620			20
21	82 HDS 1559			96	60	>10.0	1.6	268	32	—			21
22	1560			204	190	5.3	2.6	1260	140	>10,000			22
23	1561			212	150	4.0	3.0	2020	34	—			23
24	1562			94	180	1.8	1.4	1920	20	4400			24
25	1563			146	340	3.5	2.6	2350	40	—			25
26	1564			112	240	3.4	2.8	1400	24	1040			26
27	1565			112	340	2.9	2.4	920	24	—			27
28	1566			80	320	2.7	2.0	500	32	1000			28
29	1567			44	130	3.0	1.0	210	204	—			29
30	82 HDS 1568			78	1340	5.8	1.0	312	40	2060			30
31	1569			90	1120	>10.0	1.2	266	64	—			31
32	1570			56	1380	5.0	0.4	208	28	1800			32
33	1571			86	540	7.8	0.2	368	20	—			33
34	1572			174	240	7.7	4.0	550	200	920			34
35	1573			132	840	4.5	1.0	364	50	—			35
36	1574			22	190	1.5	0.2	86	14	1120			36
37	1575			92	580	3.5	1.2	334	58	—			37
38	1576			44	240	3.8	0.8	384	140	920			38
39	82 HDS 1577			68	20	2.3	2.8	54	278	—			39
40	STD E			80	280	2.9	0.2	152	16	—			40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

[Signature]

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

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

CERTIFICATE NO. 82258-51

INVOICE NO.

DATE ANALYSED OCT. 21, 1982

PROJECT 57025

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba				No.
01	82 HOS 1578			58	40	1.5	2.8	92	50	1020				01
02	1579			312	620	6.1	1.4	1140	58	—				02
03	1580			100	1840	4.5	1.0	1960	720	3040				03
04	1581			138	540	4.4	5.0	1300	38	—				04
05	1582			38	140	1.9	0.6	560	12	1180				05
06	1583			22	420	1.0	1.4	430	134	—				06
07	1584			94	420	2.7	2.2	1960	12	2060				07
08	1585			176	840	2.9	5.0	4400	26	—				08
09	1586			200	620	1.8	2.6	2350	20	3080				09
10	82 HOS 1587			92	400	2.5	0.8	600	14	—				10
11	1588			80	360	1.8	0.6	760	12	2460				11
12	1589			82	180	2.2	0.4	452	12	—				12
13	1590			360	220	4.4	8.4	1360	32	2600				13
14	1591			226	500	3.3	3.8	6100	22	—				14
15	1592			272	280	3.4	4.0	3900	16	2680				15
16	1593			184	180	3.7	2.6	820	30	—				16
17	1594			56	130	2.8	2.0	128	18	1980				17
18	1595			118	200	1.8	1.4	2500	10	—				18
19	82 HOS 1596			110	220	1.5	1.0	1480	12	2260				19
20	STD B			144	120	0.7	0.8	142	92	1000 (E)				20
21	82 HOS 1597			210	1020	7.0	1.6	750	30	—				21
22	1598			76	380	5.5	1.4	308	30	>10,000				22
23	1599			38	400	2.9	0.2	230	12	—				23
24	1600			34	120	2.4	0.4	182	16	2840				24
25	1601			140	900	7.0	1.0	312	32	—				25
26	1602			64	440	2.6	0.8	560	12	1760				26
27	1603			80	360	1.6	3.0	1600	42	—				27
28	1604			76	420	1.7	1.8	1000	22	2120				28
29	1605			148	600	2.5	3.6	3100	34	—				29
30	82 HOS 1606			54	130	1.9	1.4	660	10	1800				30
31	1607			138	360	2.7	2.8	2800	18	—				31
32	1608			108	380	3.4	2.0	1560	18	5700				32
33	1609			94	520	3.6	1.6	1020	16	—				33
34	1610			52	520	2.9	1.6	468	36	1560				34
35	1611			120	110	3.3	3.0	238	126	—				35
36	1612			92	680	3.9	0.2	306	38	1200				36
37	1613			154	110	5.1	0.2	186	22	—				37
38	82 HOS 1614			218	190	4.5	0.2	740	16	1140				38
39	STD B			144	120	0.7	0.8	140	90	—				39
40														40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

P. Rossbach

Kossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

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

CERTIFICATE NO. 82258-54

INVOICE NO.

DATE ANALYSED OCT. 26, 1982

PROJECT 57025

No.	Sample	pH	Mo	Cu	Mn	2Fe	Ag	Zn	Pb	Ba				No.
34	82HQS 482			22	150	2.1	0.2	114	20	1420				34
35	483			2	50	0.5	0.2	18	2					35
36	484			24	70	1.8	0.2	160	10	1220				36
37	485			84	190	2.5	1.2	760	18					37
38	486			114	80	3.4	1.6	286	78	10,000				38
39	82HQS 487			76	140	4.1	1.4	400	28					39
40	STD A			22	420	2.4	0.2	36	24	460 (BR)				40
01	82HQS 488			72	110	5.3	1.0	330	34	5200				01
02	489			48	80	3.0	0.8	376	30	-				02
03	490			70	100	3.8	0.8	322	30	10,000				03
04	491			78	120	4.1	0.8	290	14	-				04
05	492			88	110	1.9	1.0	820	20	10,000				05
06	493			56	420	3.5	0.2	298	10	-				06
07	494			28	80	2.8	0.2	206	24	2780				07
08	495			44	150	2.8	0.2	180	18	-				08
09	496			68	340	2.8	0.4	78	14	2260				09
10	82HQS 497			102	110	3.5	0.8	176	30	-				10
11	498			124	40	2.2	2.6	88	42	1020				11
12	499			46	50	1.8	1.0	114	72	-				12
13	500			112	340	3.3	0.6	384	30	2360				13
14	501			70	280	4.0	0.8	284	72	-				14
15	502			34	240	2.6	0.4	140	48	1380				15
16	503			30	150	2.0	0.2	164	32	-				16
17	504			174	160	2.6	3.8	1300	38	1980				17
18	505			86	300	2.1	1.0	2500	14	-				18
19	82HQS 506			102	100	2.1	1.4	780	24	2280				19
20	STD B			148	140	0.8	0.8	144	100	520				20
21	82HQS 507			122	110	2.5	3.6	710	32	-				21
22	508			308	960	3.4	6.2	2200	30	2200				22
23	509			58	620	4.8	0.2	152	18	-				23
24	510			34	140	2.9	0.2	116	16	1800				24
25	511			18	40	1.5	0.2	78	38	-				25
26	512			76	220	2.9	1.4	136	26	1620				26
27	513			18	70	1.3	0.2	76	12	-				27
28	514			120	90	3.9	0.2	216	36	1500				28
29	515			18	140	1.5	0.2	62	8	-				29
30	82HQS 516			126	380	4.3	0.2	194	26	2120				30
31	517			58	500	3.6	0.2	158	20	-				31
32	518			36	200	2.7	0.2	152	14	3080				32

Kossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

BURNABY, B. C.
CANADA
TELEPHONE: 299-8910

CERTIFICATE OF ANALYSIS

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

CERTIFICATE NO. 82258-SS

INVOICE NO.

DATE ANALYSED OCT. 26, 1982

PROJECT 57025

No.	Sample	pH	Mo	Cu	Fe%	Mn	Ag	Zn	Pb	Ba				No.
33	82 HQS 519			34	180	2.7	0.4	510	28	-				33
34	520			102	110	2.5	0.8	600	40	>10,000				34
35	521			98	110	1.6	0.6	760	32	-				35
36	522			248	160	2.3	0.8	520	46	>10,000				36
37	523			228	80	2.3	3.0	184	84	-				37
38	524			84	90	2.6	2.6	422	70	>10,000				38
39	82 HQS 525			80	80	2.5	2.4	500	54	-				39
40	STD B			148	140	0.8	0.6	136	96	340				40
01	82 HQS 526			178	2.7	240	2.6	2300	28	2420				01
02	527			24	0.6	40	0.4	130	4	-				02
03	528			106	2.1	160	1.4	1060	40	>10,000				03
04	529			122	2.8	150	2.0	820	48	-				04
05	530			110	2.9	120	1.8	480	70	>10,000				05
06	531			136	2.4	90	1.2	448	54	-				06
07	532			56	1.1	130	0.6	660	30	>10,000				07
08	533			58	1.1	120	0.4	860	38	-				08
09	534			82	3.7	300	1.2	530	46	4000				09
10	82 HQS 535			48	2.4	80	0.2	222	32	-				10
11	536			52	2.6	380	0.2	150	18	2680				11
12	537			34	1.7	80	0.2	102	20	-				12
13	538			28	1.6	120	0.2	70	8	1480				13
14	539			46	2.4	150	0.2	108	12	-				14
15	540			58	3.1	380	0.2	232	26	2140				15
16	541			8	0.6	560	0.2	28	2	-				16
17	542			82	3.6	100	0.2	182	22	960				17
18	543			82	2.9	280	0.6	720	32	-				18
19	82 HQS 544			218	2.0	480	3.2	5800	20	1920				19
20	~~545~~ 545			186	1.7	280	3.2	4200	16	-				20
21	82 HQS 546			208	2.5	220	3.4	1620	26	2080				21
22	547			78	2.4	300	0.6	820	24	-				22
23	548			70	3.0	90	3.6	230	60	1040				23
24	549			46	2.0	240	0.6	180	12	-				24
25	550			84	3.1	320	0.4	224	24	1820				25
26	551			74	2.7	190	0.2	150	16	-				26
27	552			54	3.5	360	0.2	118	16	2420				27
28	553			62	3.9	500	0.2	150	20	-				28
29	554			142	4.2	280	1.6	120	30	1580				29
30	82 HQS 555			68	3.0	260	0.4	184	20	-				30
31	556			46	2.6	460	0.6	166	14	5800				31
32	557			62	3.6	130	0.2	152	14	-				32

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

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

CERTIFICATE NO. 82258-56

INVOICE NO.

DATE ANALYSED OCT. 26, 1982

PROJECT 57085

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba				No.
01	82 HQS 565			56	50	3.0	2.8	1420	20	-				01
02	566			46	50	2.2	1.6	68	12	4100				02
03	567			44	70	2.4	1.8	74	30	-				03
04	568			48	70	2.6	2.4	82	28	3320				04
05	569			50	440	4.0	0.4	78	50	-				05
06	570			48	90	1.8	0.2	42	16	1280				06
07	571			82	120	6.8	0.8	78	56	-				07
08	572			48	100	4.8	0.4	68	42	2180				08
09	573			100	240	4.7	2.0	580	36	-				09
10	82 HQS 574			14	30	1.1	0.4	42	12	1980				10
11	575			22	90	2.2	1.2	56	22	-				11
12	576			20	110	2.5	0.8	60	22	2120				12
13	577			6	30	0.6	0.2	14	2	-				13
14	578			72	400	2.1	1.4	450	12	3460				14
15	579			32	120	3.0	1.4	104	8	-				15
16	580			54	60	2.5	2.2	180	8	6900				16
17	581			110	400	3.1	0.6	1000	22	-				17
18	582			116	260	3.1	1.0	940	20	3520				18
19	82 HQS 583			14	70	1.0	0.2	40	6	-				19
20	~~STD D~~			~~124~~	~~80~~	~~0.8~~	~~4.0~~	~~492~~	~~104~~	~~760~~	(n)			20
21	82 HQS 584			40	1000	2.2	0.4	162	22	2540				21
22	585			56	320	2.5	0.6	560	20	-				22
23	586			78	340	3.2	0.4	160	10	2120				23
24	587			8	100	0.7	0.2	20	2	-				24
25	588			102	1020	5.0	0.4	222	28	2800				25
26	589			82	100	2.6	0.2	128	14	-				26
27	590			14	70	0.7	0.6	150	4	1080				27
28	591			60	200	2.6	0.4	252	20	-				28
29	592			8	340	0.7	0.4	52	4	2200				29
30	82 HQS 593			40	60	2.0	1.2	70	16	-				30
31	594			82	520	4.5	0.4	282	32	1800				31
32	595			6	20	0.4	0.2	12	2	-				32
33	596			22	150	2.8	1.2	124	30	3320				33
34	597			82	760	6.7	0.6	560	24	-				34
35	598			134	80	3.3	1.6	414	20	2380				35
36	599			130	20	0.8	2.8	436	18	-				36
37	600			14	60	0.9	0.2	22	2	920				37
38	601			4	40	0.6	0.2	12	2	-				38
39	82 HQS 602			18	30	0.6	0.4	20	6	1120				39
40	~~STD D~~			~~128~~	~~70~~	~~0.8~~	~~4.0~~	~~512~~	~~106~~					40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

L. Rossbacher

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 82258-57

INVOICE NO.

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

DATE ANALYSED OCT. 26, 1982

PROJECT 57025

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba				No.
01	B2 HAS 603			50	100	7.5	2.2	124	54	-				01
02	604			44	90	5.3	3.4	138	96	3700				02
03	605			22	40	2.1	4.6	44	18	-				03
04	606			68	70	7.2	1.4	68	42	2200				04
05	607			88	80	10.0	1.6	46	62	-				05
06	608			164	70	10.0	1.4	58	80	4100				06
07	609			18	40	1.9	0.2	30	32	-				07
08	610			26	70	1.3	0.2	24	12	1040				08
09	611			36	60	2.4	1.2	24	22	-				09
10	B2 HAS 612			108	110	8.9	1.0	66	68	2200				10
11	613			94	100	7.2	1.2	64	50	-				11
12	614			86	60	7.6	1.8	96	62	>10,000				12
13	615			42	50	7.5	3.8	144	66	-				13
14	616			82	120	7.9	3.0	256	54	>10,000				14
15	617			48	90	5.0	1.8	154	36	-				15
16	618			76	190	4.9	1.8	590	44	>10,000				16
17	619			62	80	3.4	1.2	1960	26	-				17
18	620			34	180	2.7	0.4	520	32	2840				18
19	B2 HAS 621			28	60	1.9	0.4	178	34	-				19
20	~~SD 0~~			~~122~~	~~70~~	~~0.7~~	~~3.8~~	~~490~~	~~102~~	~~1682~~				20
21	B2 HAS 622			22	80	2.0	0.6	116	20	1880				21
22	623			94	280	1.8	1.6	1800	16	-				22
23	624			62	160	3.5	0.8	720	32	2800				23
24	625			18	80	1.7	0.8	92	18	-				24
25	626			6	40	0.8	0.4	44	6	1340				25
26	627			12	140	0.5	0.2	36	2	-				26
27	628			12	130	1.2	0.2	92	20	2040				27
28	629			4	40	0.5	0.2	12	2	-				28
29	630			18	50	1.8	1.0	100	20	2280				29
30	B2 HAS 631			64	300	3.5	1.6	1660	50	-				30
31	632			124	120	2.9	4.4	780	18	1520				31
32	633			252	1040	2.0	5.4	4100	30	-				32
33	634			304	520	2.9	4.0	2900	28	4200				33
34	635			252	460	2.0	3.6	6150	24	-				34
35	636			228	900	2.8	6.4	4150	8	1840				35
36	637			450	320	5.5	6.6	1140	48	-				36
37	638			224	480	3.9	5.0	2400	32	1000				37
38	639			214	180	4.6	3.4	1140	32	-				38
39	B2 HAS 640			206	140	4.4	4.0	1060	28	1380				39
40	~~SD 0~~			~~122~~	~~70~~	~~0.8~~	~~4.2~~	~~500~~	~~104~~					40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

P. Rossbacher

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

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

CERTIFICATE NO. 82258-58

INVOICE NO.

DATE ANALYSED OCT. 26, 1982

PROJECT 57025

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba		No.
01	82 HAS 641			254	780	5.7	5.8	3350	34	-		01
02	642			238	660	5.4	4.6	2500	28	2140		02
03	643			186	1200	6.2	4.0	8550	18	-		03
04	644			172	100	3.8	3.4	720	24	1940		04
05	645			194	640	3.6	4.2	1620	32	-		05
06	646			160	640	2.6	3.0	7400	18	5000		06
07	647			280	720	2.5	4.2	7200	18	-		07
08	648			384	900	2.8	6.0	16000	34	3020		08
09	649			560	880	3.5	4.6	5000	20	-		09
10	82 HQS 650			212	620	2.2	2.8	4700	22	2940		10
11	651			44	300	2.1	1.0	800	16	-		11
12	652			52	400	2.5	1.4	820	20	1780		12
13	653			80	140	2.7	2.2	830	22	-		13
14	654			54	150	2.0	1.6	492	12	3980		14
15	655			68	8800	710.0	1.8	2550	190	-		15
16	656			98	1280	6.0	1.8	1620	134	3260		16
17	657			78	920	7.7	0.4	410	50	-		17
18	658			56	1480	6.8	0.4	770	52	4200		18
19	82 HQS 659			64	1160	8.2	0.2	232	54	-		19
20	~~STD B~~			~~142~~	~~150~~	~~0.8~~	~~0.8~~	~~144~~	~~96~~	~~1580~~		20
21	82 HAS 660			148	400	4.4	0.4	428	36	1780		21
22	661			52	40	2.1	4.2	196	54	-		22
23	662			108	170	2.8	3.6	338	36	1040		23
24	663			68	1580	6.3	1.6	740	84	-		24
25	664			100	800	7.7	1.0	444	48	3520		25
26	665			62	460	1.8	0.8	680	122	-		26
27	666			132	460	1.8	2.0	2350	232	2080		27
28	667			40	940	3.1	0.2	610	342	-		28
29	668			72	1600	3.3	0.6	1340	580	3060		29
30	82 HAS 669			112	2000	2.5	1.6	2700	370	-		30
31	670			58	120	1.3	2.4	670	14	2660		31
32	671			36	90	1.9	1.0	294	18	-		32
33	672			74	100	3.5	2.4	312	32	1480		33
34	673			164	320	4.1	2.0	1000	32	-		34
35	674			210	480	5.2	2.6	1940	20	3920		35
36	675			84	200	3.3	2.0	890	24	-		36
37	676			118	600	3.0	2.0	2150	16	4600		37
38	677			10	120	0.9	0.4	190	18	-		38
39	82 HQS 678			42	340	2.1	1.2	680	66	2760		39
40	~~STD B~~			~~142~~	~~130~~	~~0.8~~	~~1.0~~	~~138~~	~~98~~			40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

A. Rossbacher

Kossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

2220 S. OF HINGLER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910

CERTIFICATE OF ANALYSIS

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

CERTIFICATE NO. 82259-5
INVOICE NO.
DATE ANALYSED 82/10/12
PROJECT 57032

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba				No.
34	82 PQS 446			6	10	0.1	0.2	16	2	10,000				34
35	447			50	300	2.3	0.6	342	10	1720				35
36	448			422	300	5.8	1.2	1080	10	1620				36
37	449			262	360	3.9	0.8	980	8	720				37
38	450			300	160	5.4	1.2	438	8	1620				38
39	82 PQ L 451			152	280	6.3	1.0	580	10	800				39
40	STD C			176	190	1.3	0.8	110	74					40
01	82 PQT A52			64	120	5.6	2.2	162	18	1820				01
02	453			42	440	2.5	0.4	5900	2	10,000				02
03	454			62	30	1.9	1.8	170	54	3260				03
04	455			10	40	1.1	0.8	40	2	10,000				04
07	5456			36	300	2.3	0.2	114	48	1300				07
08	457			38	180	2.0	0.4	116	56					08
09	458			68	60	2.0	1.6	160	28	1320				09
10	82 HRS 459			58	220	2.9	0.4	220	14					10
11	460			248	50	2.7	1.4	344	20	940				11
12	461			6	260	0.6	0.2	16	6					12
13	462			94	240	5.2	0.2	600	24	3980				13
14	463			62	620	2.6	0.4	780	18					14
15	464			228	700	2.8	3.0	2060	12	10,000				15
16	465			80	560	2.7	0.6	458	20					16
17	466			6	50	0.8	0.2	22	4	1000				17
18	467			102	320	3.5	0.6	630	28					18
19	82 HRS 468			106	660	1.4	1.2	910	12	1740				19
20	STD A			22	420	2.4	0.2	76	22	460				20
21	82 HRS 469			48	260	2.7	0.2	322	26					21
22	470			22	110	1.9	0.2	106	12	1300				22
23	471			70	120	1.5	0.8	102	16					23
24	472			10	60	0.7	0.2	24	2	1020				24
25	473			104	90	2.5	0.2	192	22					25
26	474			8	40	0.5	0.2	16	2	860				26
27	475			2	70	0.4	0.2	14	2					27
28	476			36	160	2.0	0.2	156	26	1520				28
29	477			86	110	2.0	1.2	208	50					29
30	82 HRS 478			60	50	2.4	0.4	168	22	1780				30
31	479			12	40	1.2	0.4	64	10					31
32	480			18	50	1.2	0.2	72	12	1280				32
33	481			58	200	3.1	0.6	244	42					33

Rossbacher Laboratory Ltd.

GEOCHEMICAL ANALYSTS & ASSAYERS

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

CERTIFICATE OF ANALYSIS

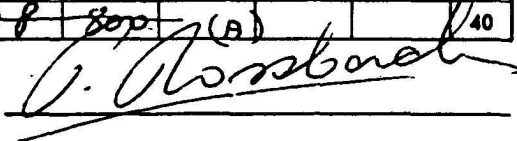
TO: AMAX MINERALS EXPLORATION
601 - 535 THURLOW ST.
VANCOUVER, B.C.

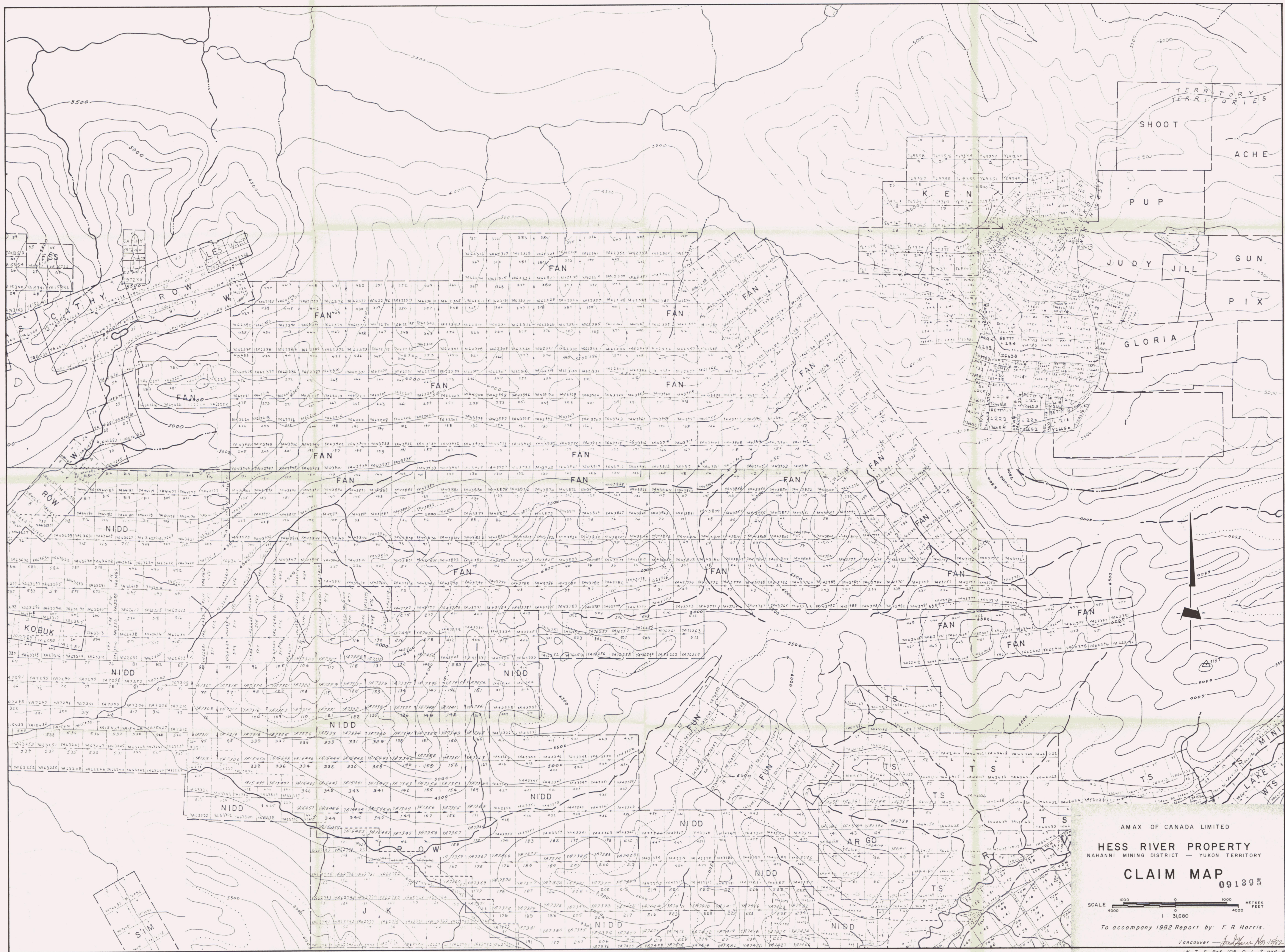
CERTIFICATE NO. 82259-7
INVOICE NO.
DATE ANALYSED 82/10/12
PROJECT 57032

No.	Sample	pH	Mo	Cu	Mn	%Fe	Ag	Zn	Pb	Ba				No.
33	82HQ558			50	3.2	380	0.2	144	16	3020				33
34	559			8	0.4	30	0.2	24	2	-				34
35	560			30	0.7	160	0.4	192	4	1820				35
36	561			50	2.3	100	0.6	410	30	-				36
37	562			20	1.3	100	0.4	1300	74	710,000				37
38	563			48	1.4	90	0.4	580	20	-				38
39	82HQ5564			36	3.2	80	1.2	136	30	3120				39
40	~~57032~~			~~78~~	~~2.8~~	~~280~~	~~0.2~~	~~152~~	~~18~~	~~800~~				40

VALUES IN PPM UNLESS NOTED OTHERWISE.

Certified by

(A)




AMAX OF CANADA LIMITED

HESS RIVER PROPERTY

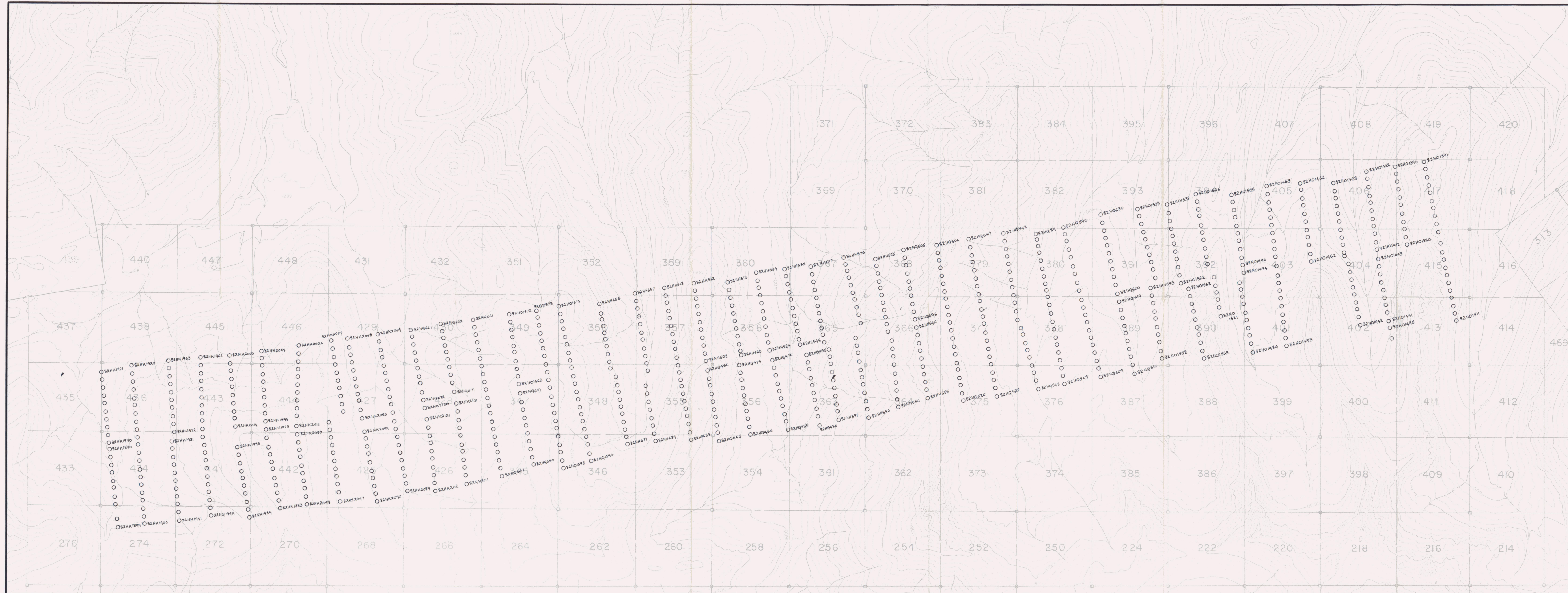
NAHANNI MINING DISTRICT — YUKON TERRITORY

CLAIM MAP

091395

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

Vancouver — Fred Harris Nov. 15/82
N. T. S. Ref. 105 O 1, 7 and 8
FIG. 2



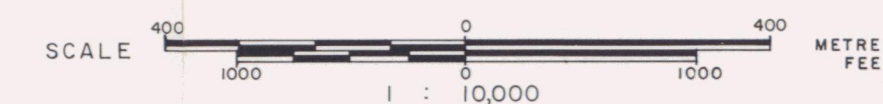
S Y M B O L S

- 82HK1247 Soil
- 82HO187 Sill
- ⊕ 82HK1652 Rock chip
- Claim post, claim location line.
- - - Claim boundary.
- ~ Stream.
- 2000 Topographic contour (contour interval 20 metres).

AMAX OF CANADA LIMITED

HESS RIVER PROPERTY
FAN CLAIMS
NAHANNI MINING DISTRICT — YUKON TERRITORY

GEOCHEMICAL MAP FAN NORTH GRID



091395

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