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1978 Geological and Geochemical Assessment Report

Office Of The Supervising Mining Recorder
JAN 2 1979
WHITEHORSE
Yukon Territory

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TITLE	Fishook Creek Property AM 1-176 claims BM 1-48 claims PM 1-8 FR. claims
AUTHORS	A.C. Hitchins and R.G. Kidlark
DATE	November, 1978
COMMODITY	Pb-Zn
LOCATION	Anvil Range, Yukon Territory Whitehorse Mining District Latitude 62°32'N Longitude 134°10'W NTS 105 L 8 and 105 L 9
WORK PERIOD	August 1 - 28, 1978

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090408

AMAX VANCOUVER OFFICE

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of $ 32000.00 14 Feb/79

Resident Geologist or
Resident Mining Engineer

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

G. R. BAXTER
Supervising Mining Recorder

for Commissioner of Yukon Territory

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SUMMARY AND CONCLUSIONS

The 232 claim Fishook Creek property of AMAX Potash Limited is located on the south side of Tay Mountain, 34 miles northwest of Faro, Y.T. During the summer of 1978 geological mapping and soil sampling crews traversed most of the property.

Geological mapping has outlined numerous graphitic horizons in the Cambro-Ordovician sericitic and chloritic phyllites on the property. Graphitic horizons within sericite-quartz-phyllites are believed to be at the same stratigraphic level as graphitic phyllites that host the Grum and Vangorda deposits.

Low order Zn-Ag soil anomalies occur over sericite-quartz phyllite. Two areas of Pb-Zn soil anomalies on Grid 2 are also underlain by sericitic phyllite. Additional rock chip sampling of known graphitic horizons combined with prospecting of the stronger geochemical anomalies followed by gravity surveys will all aid in drill target definition.

INTRODUCTION

The Fishook Creek claims consists of 232 (8 fractions) contiguous, unpatented mining claims covering Cambrian to Lower Ordovician mica schists and calc-silicate rocks similar to the host rocks for the Grum and Vangorda deposits.

Access to the property is by helicopter from Faro, Y.T., 34 miles to the southeast.

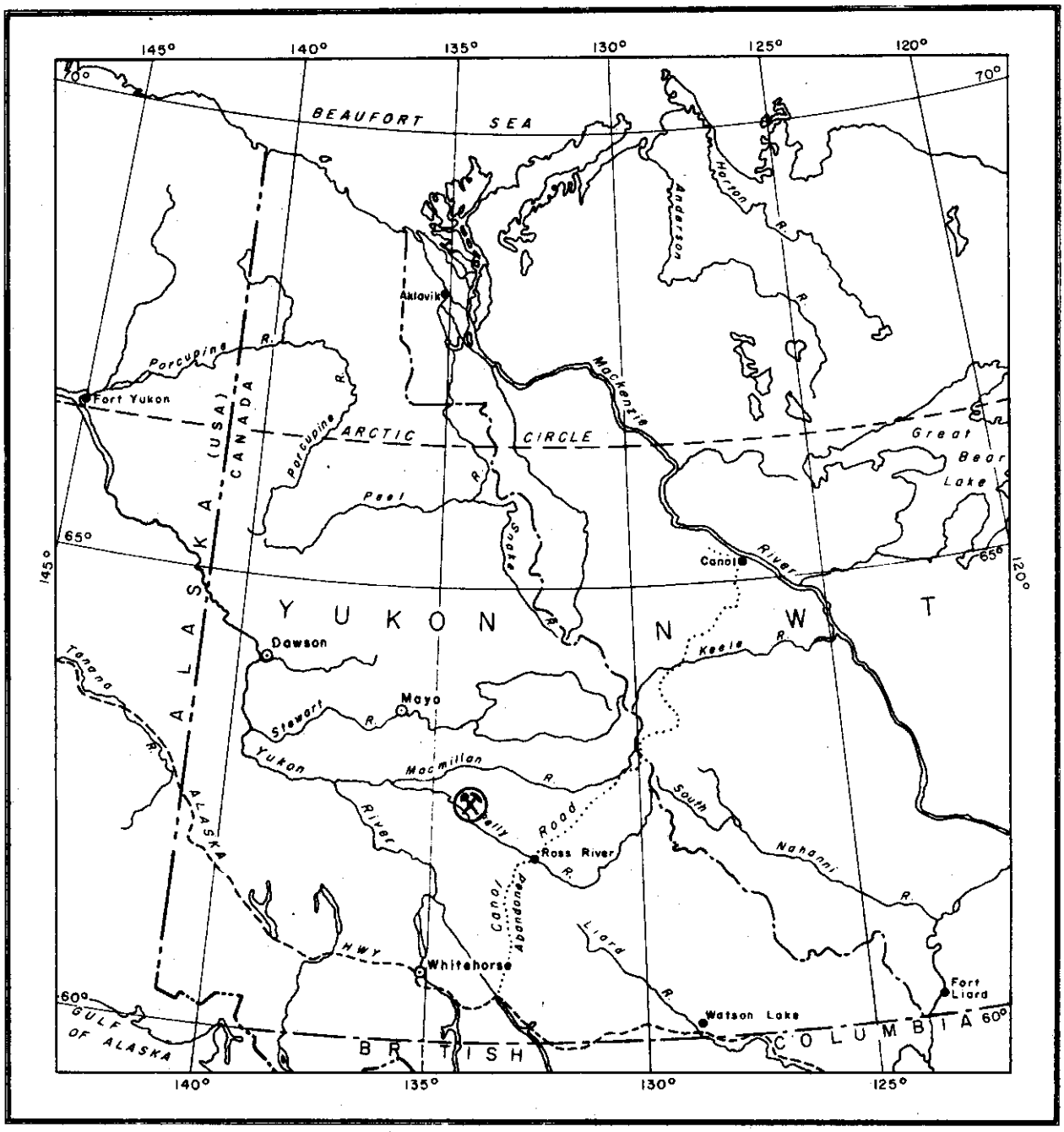
Elevations on the property range from 800 to 1980 m. Topography and vegetation vary from steep treed valleys, extensive buckbrush covered slopes facing the Pelly River valley to bare ridges in the northeast portion of the property.

Field work from late July to the end of August comprised geological mapping, soil and rock geochemistry, line cutting, Max-Min and magnetic surveys. This report discusses only the geological and geochemical surveys of the Fishook Creek property. A separate geophysical assessment report by J.L. LeBel covers the geophysical work.

Geological and geochemical data collected between August 3 and August 26 is plotted on a 1"=10,000 scale contoured orthophoto base. The three cut line grids were tied into the orthophoto base.

PREVIOUS WORK

Several companies including Cyprus Anvil and Welcome North have worked in the vicinity of the Fishook claims to the extent of drill testing geophysical anomalies, mainly to the east of the Fishook group in the Anvil Creek valley. Swim Lake Mines carried out a gravity survey and completed two diamond drill holes, totalling approximately 1,200 feet, on the A and B claims adjoining the Fishook Creek property to the north.



N.T.S. Ref. 105 L 8, 9

AMAX POTASH LIMITED

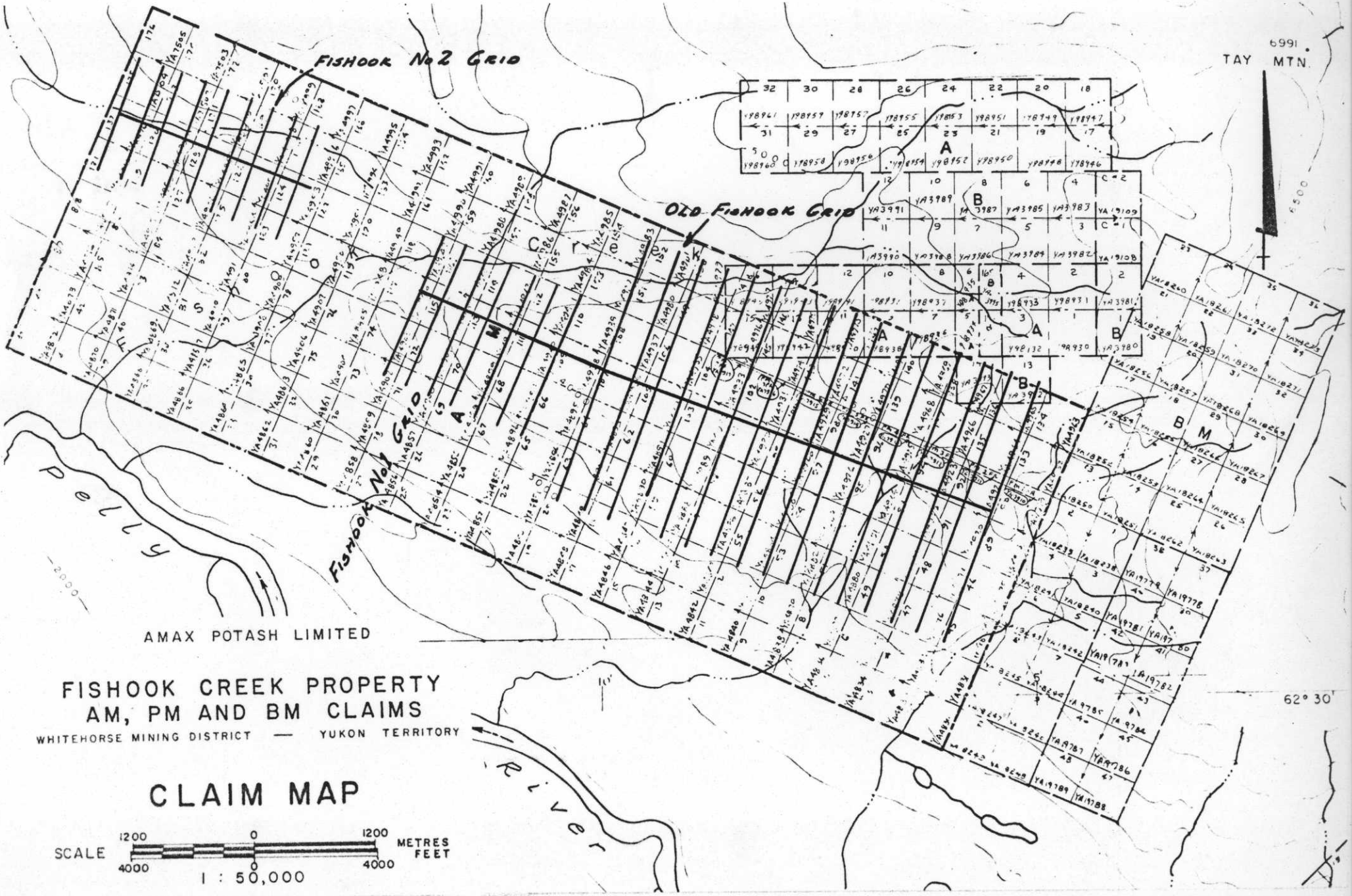
FISHOOK CREEK PROPERTY
AM, PM AND BM CLAIMS

WHITEHORSE MINING DISTRICT — YUKON TERRITORY

LOCATION MAP

SCALE 1" = 120 MILES

Vancouver - H.P.


FISHOOK No 2 GRID
OLD FISHOOK GRID
FISHOOK No1 GRID
TAY MTN.
6991
5500
Polly
River
2000
62° 30'
AMAX POTASH LIMITED
FISHOOK CREEK PROPERTY
AM, PM AND BM CLAIMS
WHITEHORSE MINING DISTRICT — YUKON TERRITORY
CLAIM MAP
SCALE
1200 0 1200 METRES
4000 0 4000 FEET
1 : 50,000
Vancouver —
H.P.
N. T. S. Ref. 105 L 8, 9
FIG. 2

Templeman-Kluit mapped from just east of the Fishook Creek property southeast through the Anvil area deposits to Ross River for the G.S.C. in 1967-1968.

AMAX interest in the area began in 1975 with regional mapping and silt sampling. The AM 1-176 and PM 1-8 FR. were staked in June 1976 to cover graphitic horizons considered favourable for Grum-type mineralization. Silt anomalies in creeks draining the graphitic units increased interest in the property. The BM 1-48 claims were added to the property in 1977 to cover airborne EM and magnetic anomalies. Limited soil and ground EM surveys were completed over the eastern AM claims in 1976. A thirty line mile gravity survey was performed in 1977 by Airborne Geophysics of Calgary.

The geology of the LU and TAY claims to the east of the Fishook Creek property has been described in 1978 Assessment reports by A.C. Hitchins.

REGIONAL GEOLOGY

The Cambro-Ordovician rocks in the Anvil Range are represented by a structurally deformed sequence of biotite-andalusite rich schist, various types of calc-silicate and chlorite phyllite-metabasite units. These rocks have been folded into a major, northwest trending anticline, termed the Anvil Arch, with a core of Cretaceous granitic rocks (Anvil Batholith). The Arch emerges from beneath younger cover near Tay River in the northwest and extends 80 km southeast to Blind Creek. The spatial relationship of the Anvil Arch with the Anvil Batholith suggests coeval development.

The most conspicuous structural feature in outcrop is a prominent pre-Anvil Arch crenulation foliation on which an earlier compositional banding has been transposed. Intercalated within the metamorphosed and structural deformed metasedimentary rocks are discontinuous but economically important graphitic horizons, hosts for all known stratiform Pb-Zn orebodies in the area.

The base of the biotite andalusite schist is not exposed but it may overlie the Hadrynian Grit Unit. Metamorphic grade decreases upward from the garnet-staurolite facies present in the biotitic schists to the albite-chlorite facies in the chloritic phyllite. Calc-silicate mineralogy varies from a crystalline marble to diposide-quartz-feldspar-garnet skarn with laminae of biotite-quartz schist. Spatially restricted graphitic horizons occur in all units and range in graphite content from slightly graphitic quartzite to sooty black schists and phyllites. In spite of the diversity of graphitic horizons the ore zones are associated with a distinctive ribbon banded graphitic chert composed of alternating narrow bands of black chert and graphitic argillite with scattered pyrite laminae.

The phyllites exposed on the Fishook Creek property are believed to be equivalent to the hosts for the Grum and Vangorda deposits.

PROPERTY GEOLOGY (Figure 3)

Northeast striking Cambro-Ordovician phyllites and metabasites underlie most of the Fishook Creek property. The phyllites dip moderately to the southwest off the flanks of a Cretaceous quartz monzonite intrusion which occupies the core of the northwest trending Anvil Arch. Folds south of the Arch, but parallel to it, cross the northern AM claims.

The youngest lithology on the property consists of massive metabasites and calc-silicate exposed along the southern half of the AM claims. The contact of the calc-silicate-metabasite unit with the underlying chloritic and sericitic phyllites may be a southwest dipping thrust fault. The underlying chloritic and sericitic phyllites are lower in the section than the calc-silicate but may be only slightly older. The normally calcareous chlorite phyllites contain broad weakly graphitic zones immediately east of Fishook Creek. The non-calcareous sericitic phyllite varies in composition from a laminated quartz-sericite phyllite to a papery weathering sericite phyllite. Most of the quartz-graphite and sericite-graphite units are within the sericitic phyllite and are particularly abundant in the northeastern portion of the claim block.

Visible sulphide content in the graphitic outcrops rarely exceeds 3% combined pyrite and pyrrhotite. Economic interest centres on the graphitic units in the sericitic phyllites. Geophysical surveys have attempted to outline the surface expression and down dip extension of these graphitic units.

STRUCTURAL GEOLOGY

The axis of the Anvil Arch lies north of the property and is occupied by the cross-bar of an "H" shaped Cretaceous quartz-monzonite. One of the northeast trending legs of the intrusion is exposed on the east side of the BM claims. The phyllites and schists on the Fishook Creek property dip southwesterly off the flanks of the intrusion towards the Pelly River. The several outcrops of quartz monzonite examined were narrow and unfoliated suggesting that this phase of the Anvil intrusions postdates development of regional foliation. In the Anvil Mine area the early intrusive phases of the batholith display a metamorphic foliation which later phases of the batholith lack.

At least three foliation surfaces were mapped on the property. The earliest observed foliation (F_1) is a compositional banding defined by alternating quartz and sericite rich laminations in the sericitic phyllite and alternating chlorite and carbonate laminations in the chlorite phyllite. This foliation is best exposed in several outcrops of sericitic phyllite north of the base line on the Old Grid where it may represent an early metamorphic foliation parallel to original bedding.

The most visible metamorphic surface is a crenulation foliation (F_2) that outlines most of the folds on the property. The degree of transposition of the earliest foliation into the plane of the crenulation foliation varies with depth in the section. In the sericitic phyllite, microlithons displaying the earliest foliation are separated by recrystallized sericite bands that define the crenulation foliation. In the quartz-sericite-biotite schist beneath the sericitic phyllite only isoclinal folds and hinge lines outlined by the compositional banding (early foliation) remain between the crenulation foliation planes.

A wrinkle lineation produced by kinking of the foliation surface commonly obscures the lineation produced by the intersection of the F_1 compositional foliation and the F_2 foliation. The wrinkle crenulation generally trends southeast but plunges southeast or northwest whereas the intersection lineation plunges gently south to southwesterly.

A third weak, planar, feature is a cleavage parallel to both the axial plane of the wrinkle crenulations and the axis of outcrop sized folds. This cleavage foliation is best exposed in the northeast corner of the Old Grid.

Development of the Anvil Arch post-dates the crenulation foliation but may be related to the outcrop size open folds and associated cleavage.

DESCRIPTION OF MAP UNITS

Only those rocks exposed on the Fishook Creek (Figure 3) property are described below.

Cretaceous

Unit 7 quartz monzonite and porphyritic quartz monzonite exposed on the eastern BM claims form one leg of a roughly "H" shaped intrusion lying north and east of the property. It marks the western limit of Anvil-type intrusions. Quartz veining is noticeable in the mica schists near the intrusive contact. Increase in grain size of the schists and remobilization of pyrite and pyrrhotite may be the result of thermal metamorphism of the schists during intrusion. Intrusive metamorphic effects are more noticeable on the Fishook property than on the LU or TAY claims because the intrusive-schist contact appears to be more conformable here than on the other properties.

Upper Ordovician

Unit 5 - Exposures of calc-silicate (5a) on the property

are scattered along the southeast portion of the Old Grid and on several of the BM claims. Most of the outcrops consist of light green to dark grey calc-silicate interbedded with narrow quartz-sericite phyllite. Occasionally outcrops of grey marble are included within Unit 5a. Contact relations with the dark green medium grained massive metabasite 5b are obscured by drift.

Similarity of the 4f and 5f metabasites suggests that this spatial and temporal separation may be minor in spite of the postulated thrust beneath Unit 5.

Middle Cambrian to Lower Ordovician

Unit 4a, 4e, 4f, 4g - The generally calcareous chlorite phyllite and phyllitic basic tuffs of Unit 4a are exposed along the southwestern portion of the property. Scattered lenses of dark grey to greyish green fine to medium grained metabasite (Unit 4f) are intercalated with 4a and probably represent both intrusive and extrusive events. Field recognition of 4f is simplified by the smooth, hummocky to knobby character of outcrops. Metamorphic foliation is concentrated in cross-cutting shear zones and the margins of the metabasite bodies leaving the main mass relatively unaffected by pervasive foliation present in enclosing phyllites. Grey to light green sericite-quartz phyllite (4g) within the chlorite dominated sequence represents either felsic volcaniclastics or an interfingering of the underlying quartz-sericite phyllite into 4a.

Several types of graphitic horizons were broken out of the chloritic phyllite sequence. The most extensive graphitic unit is calcareous quartz-sericite-graphite phyllite (4e) interbanded with chlorite phyllite exposed west of Grid 1. Contacts are gradational with the enclosing calcareous chlorite phyllite. Unit 4c, exposed north of the base line on Grid 1, is a much narrower, siliceous graphitic and chloritic quartz-graphite phyllite with occasional grey marble bands.

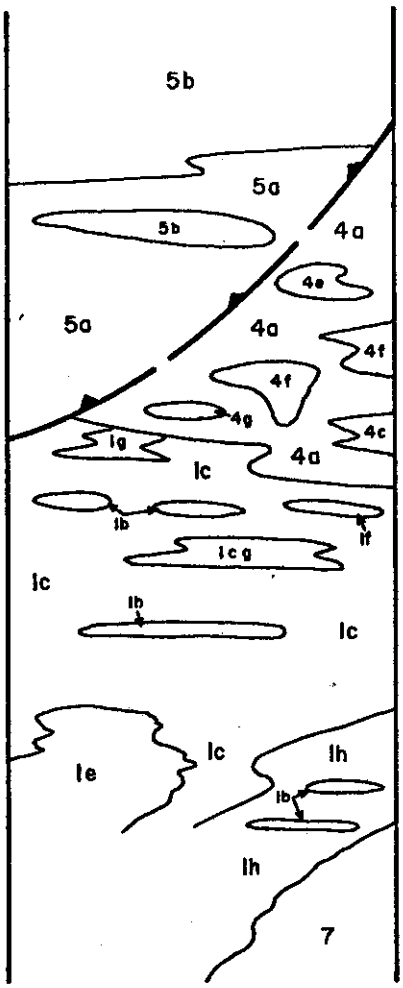
Contacts between the chloritic phyllite of 4a and the underlying sericitic phyllite of 1c are vertically and laterally gradational.

Lower Cambrian

Unit 1b, 1c, 1cg, 1e, 1f, 1g, 1h - The schists and phyllites of Unit 1 are exposed along the northern portion of the claim block and are stratigraphically the lowest exposed rocks on the property. Quartz-sericite and sericite-quartz phyllite (1c) underlie large areas of the Old Grid and Grid 2 (Figure 3). Where quartz and sericite banding on a millimetre scale is present a southwest trending lineation is produced by the intersection of the banding and crenulation foliation. Colour varies from a dirty yellow to medium grey. Medium to dark grey slightly graphitic phases of the quartz-sericite phyllite (1cg) are restricted facies of 1c. The main graphitic phyllites (1b), composed of quartz-graphite-sericite schist and recrystallized graphitic chert, grade into Unit 1cg.

Graphitic horizons within the 1c and 1h sericite quartz phyllite and schist are generally quartz-sericite graphite phyllites on the AM claims (higher in the section) and recrystallized graphitic chert and quartz-graphite bands lower in the section on the BM and north of the AM claims. Andalusite or chiastolite metacrysts are common in several of the graphitic horizons.

Rusty weathering, purplish brown quartz-biotite-sericite±andalusite schist, often interbanded with quartz-sericite schist (1e) crops out on the AM 149-152 claims and the Fishook Creek valley north of these claims. This unit underlies part of the quartz-sericite phyllite (1c) but may be a facies equivalent to lower portions of Unit 1c. South of the exposed 1e lithology are a dozen outcrops of fine grained quartz-sericite-biotite phyllite and/or a calcareous fine grained phyllite with a purplish cast (1g). A narrow chloritic phyllite band (1f) is exposed at the north end of the Old Grid.



STRATIGRAPHIC COLUMN

A medium to coarse grained quartz-sericte-biotite±andalusite schist (1h) exposed on the BM claims is in contact with and has been domed up by the Cretaceous quartz monzonite. Metamorphic grade is higher here than elsewhere on the property but other than the addition of quartz veins and lenses thermal metamorphism has had little effect on the schist.

Pyrite and/or pyrrhotite content varies from trace to 3% and rarely 5% in outcrops on the BM 17 and 18 claims.

REGIONAL GEOCHEMISTRY

The following discussion is a summary of previous work by Leary et al (1977) and Morton (1970) on orientation surveys carried out by AMAX and others over major deposits in the Anvil area.

Despite the presence of permafrost and glacial overburden the trace element content of bedrock is reflected in the soil. However, soil horizons are often discontinuous leading to varying degrees of metal enrichment. At Vangorda local clay layers within the overburden mask metal ion migration from the underlying massive sulphide body to produce geochemical highs separated by areas of background values. In spite of these problems soil sampling over the Anvil, Vangorda and Swim deposits reveal secondary Pb, Zn, Mo and Ba haloes above the ore zones. In general the Zn anomalies appear to be the most extensive and uniform whereas Pb anomalies are more erratic.

At Vangorda erratic spot anomalies of 2 to 3 times background occur in low swampy areas and are not associated with underlying sulphide mineralization. Only homogeneous areas with anomalies greater than 2 to 3 times background are considered significant.

Soils overlying magnetic greenstone are enriched in nickel and copper while soils overlying granite are slightly enriched in tin.

Soil development in the region is immature and consists of the following zones:

A) Humus - several inches thick
B) Volcanic Ash - unconsolidated, up to 6" thick
C) Glacial - gravel, sand and clay to bedrock.

Orientation studies have concluded that the C soil zone is the most reliable zone to sample.

From previous AMAX surveys threshold values for soils in the Selwyn Basin are as follows:

Element Analyzed	Anomalous Threshold	
Pb	> 50 ppm	
Zn	≥150	
Ba	≥700	
Ag	≥1.0	
Cu	≥ 80	
Mo	≥ 10	
Ni	≥100	
Co	≥ 70	
Mn	≥600	
Fe	≥5.0%	{- Upper Threshold
W	≥ 10	

Cyprus Anvil has noted that rock chip samples from the ore-bearing graphitic unit, collected from outside the ore zone, are geochemically anomalous (whereas rock chips collected from other graphitic horizons are generally not).

PROPERTY GEOCHEMICAL SURVEY

Introduction

The objective of the present survey was to delineate areas of bedrock mineralization and expand the geochemical data base for the Anvil Creek area.

Soil samples were collected at 30 m intervals along cut grid lines, at 200 foot intervals along a number of traverse lines run perpendicular to the geological strike. Grub hoes were utilized to collect samples from the top of the C zone just below the ash layer.

Silt samples were taken wherever traverses intersected streams.

Rock chip samples were collected from every graphite-bearing outcrop encountered.

A total of 1518 samples consisting of 1424 soil, 10 silt and 84 rock chip samples were collected and analyzed by Rossbacher Laboratory for Pb, Zn and Ag.

Environment

The topography of the Fishook Creek property varies greatly from relatively flat areas in the central and western areas to steep valleys along Fishook Creek and the eastern side of the property. Elevations on the property range from 750 m to 1,998 m.

Most of the property is covered by thick buckbrush except along steep northerly slopes where alpine grasses dominate.

Gleysols and humic gleysols are the major soil type on the poorly drained flat areas of the property while wooded soils and podzols are the dominant soil type on the remainder of the property.

Results

Sample sites and corresponding values for Pb, Zn, and Ag are plotted on 1:10,000 scale maps (Figure 4), and are presented in Appendix III.

The range of geochemical values for each element is as follows:

Soil Samples			Silt Samples			Rock Chip Samples		
	Low	High		Low	High		Low	High
Ag	.2	2.2	Ag	.4	12.0	Ag	.2	1.4
Zn	4	880	Zn	68	192	Zn	6	860
Pb	1	244	Pb	16	28	Pb	8	168

DISCUSSION OF RESULTS

Threshold values determined from previous AMAX surveys (ref. page 12), were used in the present survey.

Old Fishook Grid (Figure 4)

Scattered low order Zn soil anomalies occur over a quartz-sericite-schist (1c)unit. Two small areas of higher Zn values were noted; (a) the south central portion of the grid adjacent to an inferred contact with metavolcanic and calc-silicate units, and (b) the northwest section of the unit close to the contact with a graphitic (1b) unit. At both of these locations Zn soil values average less than 2 x threshold value. A Pb soil anomaly of 120 ppm occurs at the first location. No rock chip anomalies and only one silt anomaly (12.0 ppm Ag) are associated with this lithologic unit.

Only a few soil samples collected over a graphitic band (1b) along the north side of the grid are anomalous in Zn and none are greater than 2 x threshold value. Generally rock chips from this unit are not geochemically anomalous however a rock chip from the south central section has a Zn value of 860 ppm and one from the northwest corner has a Pb value of 168 ppm.

Grid 1

Anomalous soil samples are concentrated at the north-eastern corner of the grid adjacent to a quartz-sericite-schist (1c), metavolcanic (4a), and quartz-sericite-biotite-schist (1g) contact. The highest recorded values are 299 ppm Zn, 244 ppm Pb and 1.0 ppm Ag.

No rock chip anomalies are present. However a few other low order soil anomalies are scattered over the grid.

Grid 2

Low order soil anomalies occur sporadically over the grid but generally are concentrated in two locations: (a) the

northwest side of the grid where values up to 256 ppm Zn and 136 ppm Pb are recorded, and (b) the southwest corner of the grid where values up to 880 ppm Zn and 128 ppm Pb are recorded.

A one point soil anomaly of 200 ppm Pb and 480 ppm Zn exists at the south central portion of the grid.

Two small graphite bands outcrop along the south central section of the grid. The most northerly of the two has slightly anomalous soils while the one further to the south has an anomalous rock chip value of 160 ppm Zn.

Anthony Hitchins

A.C. Hitchins

Dec 20 1978

REFERENCES

HITCHINS, A.C., 1978: Geological report on the Anvil Creek Property, LU 1-100 Claims. AMAX Company report.

LEARY, G.M., HITCHINS, A.C., LITTLE, J.G., 1977: 1976 Anvil Range Prospecting Program, AMAX Company report.

MORTON, R.C., 1970: Geochemistry of bedrock and soils in the vicinity of the Anvil Mine, Yukon Territory. MSc. thesis submitted to the University of British Columbia, May 1973.

TEMPLEMAN-KLUIT, D.J., 1972: Geology and Origin of the Faro, Vangorda, and Swim Concordant Zn-Pb Deposits, Central Yukon Terr., G.S.C. Bull. 208.

APPENDIX III

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

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

(13)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. B111

TO: Amax Minerals Exploration
535 Thurlow Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 21/78

No.	Sample	pH	Mg	Cu					Ag	Zn	Pb			No.
01	78 FTT (145)								.2	20	8	✓		01
02	146								.4	188	20	✓		02
03	147								.6	248	14	✓		03
04	148								.4	6	16	✓		04
05	149								.8	48	16	✓		05
06	150								.4	6	16	✓		06
07	151								.4	48	16	✓		07
08	152								.2	56	24	✓		08
09	153								.6	24	24	✓		09
10														10
11														11
12														12
13														13

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

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

(23)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Mineral Exploration
535 Thurlow St, Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	Mg	Cu					Ag	Zn	Pb			No.
01	78 FTT 154								.2	70	12	✓		01
02	155								.2	24	12	✓		02
03	156								.8	326	28	✓		03
04	157								.6	8	16	✓		04
05	158								.8	80	40	✓		05
06	159								.6	32	12	✓		06
07	160								.4	32	12	✓		07
08	161								.4	8	8	✓		08
09	162								.4	10	12	✓		09
10	163								.2	8	12	✓		10
11	164								.2	24	12	✓		11
12	165								.6	8	16	✓		12
13	166								.4	8	16	✓		13
14	(167)								.4	50	20			14
15	168								.6	74	26	✓		15
16	169								.4	26	12	✓		16
17														17
18														18
19														19

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

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CANADA
TELEPHONE: 299-6910
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(14)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8111

TO: Amax Minerals Exploration
535 Thurlow Vancouver B C

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 1/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78FXT101								.8	860	48	✓		01
02	102								1.2	150	40	✓		02
03	103								1.2	132	34	✓		03
04	104								.4	10	16	✓		04
05	105								.4	12	24			05
06	106								.8	4	24			06
07	107								.6	4	12			07
08	✓ 108								1.4	176	36	✓		08
09	✓ 109								1.0	660	40	✓		09
10	✓ 110								.6	132	24	✓		10
11	✓ 111								8	252	36	✓		11
12	✓ L112								12.0	68	26	✓		12
13	✓ T113								.6	86	30	✓		13
14	✓ 114								.4	28	164	✓		14
15	✓ 115								.4	36	8	✓		15
16	✓ 116								.4	16	14	✓		16
17	✓ L117								.6	100	24	✓		17
18	✓ T118								1.0	76	32	✓		18
19														19

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

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

(1)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8173

TO: Amax Minerals Exploration
601 - 535 Thurlow Street, Vancouver B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Nov. 1978

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe	Ag	Zn	Pb			No.
01	78FGS166		1	24	38	16	240	2.2	.6	68	20			01
02	167		2	32	32	16	360	2.2	.4	76	26			02
03	168		1	32	36	16	320	2.2	.4	160	96			03
04	169		1	34	38	16	300	2.2	.4	76	28			04
05	170		2	32	42	18	320	2.6	.6	86	28			05
06	171		2	40	52	20	360	3.2	.6	88	28			06
07	172		1	28	24	8	200	1.6	.4	64	26			07
08	173		1	10	6	10	80	.8	.4	10	4			08
09	174		2	28	40	12	280	2.4	.4	92	20			09
10	78FGS 175		4	170	52	24	400	3.2	2.8	5600	1320	* sample from waste dump of mining road)		10
11														11
12														12
13														13

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

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

(5)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 2111

INVOICE NO.

DATE ANALYSED Aug 1/79

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

PROJECT 791

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78FNS757								.4	22	8	✓		01
02	758								.6	80	28	✓		02
03	759								.6	52	20	✓		03
04	760								.6	80	16	✓		04
05	761								8	76	24	✓		05
06	762								.6	56	20	✓		06
07	763								.4	72	36	✓		07
08	764								.6	52	20	✓		08
09	765								.6	60	18	✓		09
10	766								.4	24	8	✓		10
11	767								.6	20	8	✓		11
12	768								.6	24	20	✓		12
13	769								.4	40	16	✓	RERUN	13
14	770								.4	56	20	✓		14
15	771								.4	24	8	✓		15
16	772								.6	32	18	✓		16
17	773								.4	14	4	✓		17
18	774								.8	68	20	✓		18
19	775								.6	76	26	✓		19
20	776								.6	84	24	✓		20
21	777								.4	32	12	✓		21
22	778								.6	58	22	✓		22
23	779								1.0	100	32	✓		23
24	780								.6	156	30	✓ ✓		24
25	781								.8	172	32	✓		25
26	782								.6	200	26	✓		26
27	783								.8	150	26	✓ ✓		27
28	784								.4	28	6	✓ ✓		28
29	785								.6	92	22	✓ ✓		29
30	786								.4	16	4	✓ ✓		30
31	787								.4	66	24	✓ ✓		31
32	788								.6	84	120	✓ ✓		32
33	789								.4	52	16	✓ ✓		33
34	790								.4	52	16	✓ ✓		34
35	791								.4	16	6	✓ ✓		35
36	792								.4	60	10	✓ ✓		36
37	793								.4	74	20	✓ ✓		37
38	794								.4	42	14	✓ ✓		38
39	795								.4	54	18	✓ ✓		39
40	G1								.4	100	24			40

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GEOCHEMICAL ANALYSTS & ASSAYERS

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AREA CODE: 604

(8)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8111

TO: Amex Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 1/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	781-NS-796								.4	48	16	✓		01
02	797								.4	20	12	✓		02
03	798								.2	16	8	✓		03
04	799								.4	22	4	✓		04
05	800								.4	56	12	✓		05
06	801								.4	78	16	✓		06
07	802								.4	44	12	✓		07
08	803								.4	28	12	✓		08
09	804								.2	20	6	✓		09
10	805								.4	80	16	✓		10
11	806								.4	52	8	✓		11
12	807								.4	46	8	✓		12
13	808								.4	72	16	✓		13
14	809								.4	28	8	✓		14
15	810								.6	112	22	✓		15
16	811								.6	160	18	✓		16
17	812								.6	160	18	✓		17
18	813								.6	146	14	✓		18
19	814								.6	330	12	✓		19
20	815								.4	220	12	✓		20
21	816								.6	96	24	✓		21
22	817								.6	174	16	✓		22
23	818								.6	210	18	✓		23
24	819								.4	72	16	✓		24
25	820								.6	16	4	✓		25
26	821								1.0	160	26	✓		26
27	822								.8	108	18	✓		27
28	823								.4	74	16	✓		28
29	824								.4	56	10	✓		29
30	825								.4	54	10	✓		30
31	826								.4	66	12	✓		31
32	827								.6	212	20	✓		32
33	828								.8	288	28	✓		33
34	829								.8	304	28	✓		34
35	830								.6	84	20	✓		35
36	831								.8	80	24	✓		36
37	832								.6	92	22	✓		37
38	833								.6	140	22	✓		38
39	834								.6	106	24	✓		39
40	G7								.4	88	72			40

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GEOCHEMICAL ANALYSTS & ASSAYERS

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AREA CODE: 604

(10)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8111

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO.

PROJECT 741

DATE ANALYSED Aug 1/78

No.	Sample	pH	Mn	Cu					Ag	Zn	Pb			No.
01	781-W5874								.6	48	16	✓		01
02	875								.6	72	20	✓		02
03	876								.6	60	18	✓		03
04	877								1.0	140	24	✓		04
05	878								.6	56	18	✓		05
06	879								.6	74	16	✓		06
07	880								.8	96	20	✓		07
08	881								.6	60	20	✓		08
09	882								.4	52	12	✓		09
10	883								.2	12	4	✓		10
11	884								.4	16	4	✓		11
12	885								.4	72	12	✓		12
13	886								.4	56	12	✓		13
14	887								.6	74	16	✓		14
15	888								.4	36	4	✓		15
16	889								.4	60	12	✓		16
17	890								.4	54	16	✓		17
18	891								.4	60	14	✓		18
19	892								.4	64	16	✓		19
20	893								.4	20	4	✓		20
21	894								.4	72	20	✓		21
22	895								.4	40	14	✓		22
23	896								.6	52	16	✓		23
24	897								.4	56	20	✓		24
25	898								.4	28	14	✓		25
26	899								.2	20	8	✓		26
27	900								.2	16	4	✓		27
28	961								.4	74	16	✓		28
29	902								.8	100	28			29
30	903								.8	92	26			30
31	904								.4	22	8	✓		31
32	905								.2	12	2	✓		32
33	906								.2	12	8	✓		33
34	907								.8	88	32	✓		34
35	908								.8	60	24	✓		35
36	909								.2	12	6	✓		36
37	910								.2	10	2	✓		37
38	911								.2	14	4	✓		38
39	912								.2	10	2	✓		39
40	G6								3.4	324	>100			40

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GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
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AREA CODE: 604

(12)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8811

TO: Amax Minerals Exploration
535 Thurlow St. Vanh. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 21/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78-FWS952		2						.6	96	20.	✓		01
02	953		2						.8	120	24	✓		02
03	954		2						.8	142	24	✓		03
04	955		2						.8	152	32	✓		04
05														05
06														06
07														07
08														08
09														09
10														10
11														11
12														12
13														13
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GEOCHEMICAL ANALYSTS & ASSAYERS

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BURNABY, B.C.
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AREA CODE: 604

(14)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Minerals Exploration
535 Thurlow St Vancouver B C

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 1/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78 FWS 995								.2	14	8	✓		01
02	996								.4	44	12	✓		02
03	997								.4	54	24	✓		03
04	998								.2	8	2	✓		04
05	999								.2	26	8	✓		05
06	1000								.2	32	16	✓		06
07	1001								.4	76	20			07
08	1002								.4	40	14	✓		08
09	1003								.2	20	2	✓		09
10	1004								.2	14	2	✓		10
11	1005								.4	48	12	✓		11
12	1006								.4	46	8	✓		12
13	1007								.4	16	2	✓		13
14	1008								.2	8	2	✓		14
15	1009								.4	40	12	✓		15
16	1010								.4	18	4	✓		16
17	1011								.6	54	12	✓		17
18	1012								.6	60	12	✓		18
19	1013								.4	54	12	✓		19
20	1014								.4	12	2	✓		20
21	1015								.4	44	16	✓		21
22	1016								.4	32	12	✓		22
23	1017								.4	40	12	✓		23
24	1018								.4	40	12	✓		24
25	1019								.6	100	20	✓		25
26	1020								1.0	50	16	✓		26
27	1021								.6	32	12	✓		27
28	1022								.6	64	16	✓		28
29	1023								4	20	4	✓		29
30	1024								.2	12	2	✓		30
31	1025								.4	48	12	✓	✓	31
32	1026								.4	48	12	✓	✓	32
33	1027								.4	60	12	✓	✓	33
34	1028								.4	42	12	✓	✓	34
35	1029								.2	28	4	✓		35
36	1030								.2	10	2	✓		36
37	1031								.2	20	2	✓		37
38	1032								.2	12	2	✓		38
39	1033								.2	32	8	✓		39
40	G-1								.4	108	24			40

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GEOCHEMICAL ANALYSTS & ASSAYERS

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

(16)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Minerals Exploration
535 Thurlow St Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb	Zn		No.
01	78 FWS 1073								.2	36	8	32		01
02	1075								.2	28	4	28	✓	02
03	1074 1076								.2	92	16	84	✓	03
04	1077								.2	44	12	38	✓	04
05	1078								.2	22	4	18	✓	05
06	1079								.2	84	16	42	✓	06
07	1080								.2	36	12	28	✓	07
08	1081								.2	36	8	28	✓	08
09	1082								.6	82	8	64	✓	09
10	1083								.4	80	14	64	✓	10
11	1084								.4	100	24	80	✓	11
12	1085								.4	52	20	42	✓	12
13	1086								.2	48	4	38	✓	13
14	1087								.2	16	2	14	✓	14
15	1088								.2	26	2	00	✓	15
16	1089								.6	66	8	44	✓	16
17	1090								.4	80	12	66	✓	17
18	1091								.4	140	24	112	✓	18
19	1092								.4	114	20	94	✓	19
20	1093								.2	76	12	62	✓	20
21	1094								.4		12	64	✓	21
22	1095								.4		16	74	✓	22
23	1096								.2		4	30	✓	23
24	1097								.4		16	80	✓	24
25	1098								.2		2	24	✓	25
26	1099								.2		8	58	✓	26
27	1100								.2		4	40	✓	27
28	1101								.4		20	66	✓	28
29	1102								.4		16	78	✓	29
30	1103								.4		8	36	✓	30
31	1104								.4		4	40	✓	31
32	1105								.2		4	30	✓	32
33	1106								.4		12	60	✓	33
34	1107								.6		20	94	✓	34
35	1108								.4		4	16	✓	35
36	1109								.4		20	80	✓	36
37	1110								.4		12	56	✓	37
38	1111								.2		4	24	✓	38
39	1112								.2		2	12	✓	39
40	(7)								.4		68	78		40

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GEOCHEMICAL ANALYSTS & ASSAYERS

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

(8)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. B125

TO: Amax Minerals Exploration
535 Thurlow St Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78 FWS 1153								.2	48	16	✓		01
02	1154								.2	34	8	✓		02
03	1155								.2	58	16	✓		03
04	1156								.2	30	8	✓		04
05	1157								.4	74	20	✓		05
06	1158								.2	16	4	✓		06
07	1159								.4	60	12	✓		07
08	1160								.4	48	12	✓		08
09	1161								.2	24	2	✓		09
10	1162								.6	80	20	✓		10
11	1163								.2	48	8	✓		11
12	1164								.2	16	2	✓		12
13	1165								.2	18	2	✓		13
14	1166								.2	18	2	✓		14
15	1167								.2	20	4	✓		15
16	1168								.2	12	2	✓		16
17	1169								.2	8	2	✓		17
18	1170								.2	4	2	✓✓		18
19	1171								.2	34	4	✓✓		19
20	1172								.2	48	12	✓✓		20
21	1173								.2	68	12	✓✓		21
22	1174								.2	100	4	✓		22
23	1175								.2	50	4	✓		23
24	1176								.2	24	8	✓✓		24
25	1177								.4	68	28	✓✓		25
26	1178								.4	54	10	✓✓		26
27	1179								.2	34	8	✓✓		27
28	1180								.2	60	8	✓✓		28
29	1181								.2	52	8	✓✓		29
30	1182								.4	40	12	✓✓		30
31	1183								.4	74	16	✓✓		31
32	1184								.4	58	12	✓✓		32
33	1185								.2	40	8	✓✓		33
34	1186								.2	16	6	✓✓		34
35	1188								.4	50	12	✓		35
36	1189								.4	48	20	✓		36
37	1190								.4	46	16	✓		37
38	1191								.4	48	16	✓		38
39	1192								.2	12	2	✓		39
40	1187								.4	64	16	✓		40

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GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
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AREA CODE: 604

(20)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Minerals Exploration
535 Thurlow St Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78 FWS 1234								.2	44	12	✓		01
02	1235								.2	8	4	✓		02
03	1236								.2	4	4	✓		03
04	1237								.2	16	4	✓		04
05	1238								.2	12	2	✓		05
06	1239								.4	28	16	✓		06
07	1240								.4	44	64	✓		07
08	1241								.2	12	4	✓		08
09	1242 ~~1242~~								.2	34	4	✓		09
10	1243								.2	12	2	✓		10
11	1244								.4	72	24	✓		11
12	1245								.2	8	8	✓		12
13	1246								.4	8	6	✓		13
14	1247								.2	12	2	✓		14
15	1248								.2	44	20	✓		15
16	1249								.2	8	4	✓		16
17	1250								.2	10	4	✓		17
18	1251								.4	60	12	✓		18
19	1252								.4	68	16	✓		19
20	1253								.2	44	8	✓		20
21	1254								.2	12	2	✓		21
22	1255								.2	10	4	✓		22
23	1256								.4	72	30	✓		23
24	1259								.2	10	4	✓		24
25	1260								.2	12	4	✓		25
26	1261								.2	8	2	✓		26
27	1262								.4	50	20	✓		27
28	1263								.2	34	8	✓		28
29	1264								.2	20	8	✓		29
30	1265								.2	20	4	✓		30
31	1266								.4	112	32	✓		31
32	1267								.4	80	16	✓		32
33	1268								.4	34	24	✓		33
34	1269								.2	8	2	✓		34
35	1270								.6	80	26	✓		35
36	1271								.2	14	2	✓		36
37	1272								.2	44	20	✓		37
38	1273								.4	90	20	✓		38
39	1274								.2	50	12	✓		39
40	G-6								3.0	316				40

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GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
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AREA CODE: 604

(4)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8134

TO: Amax Minerals Exploration
535 Thurlow St. Van. BC.

INVOICE NO.

PROJECT 791

DATE ANALYSED SEPT 7/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb	✓		No.
01	78FWS1305								.2	22	2	✓		01
02	1306								.2	22	4	✓		02
03	1307								.2	20	8	✓		03
04	1308								.4	42	12	✓		04
05	1309								.2	32	8	✓		05
06	1310								.4	64	20	✓		06
07	1311								.6	132	32	✓		07
08	1312								.6	108	28	✓		08
09	1313								.2	16	4	✓		09
10	1314								.4	72	28	✓		10
11	1315								.6	92	36	✓		11
12	1316								.6	56	42	✓		12
13	1317								.6	62	30	✓		13
14	1318								.2	32	12	✓		14
15	1319								.2	16	6	✓		15
16	1320								.6	96	32	✓		16
17	1321								.2	70	12	✓		17
18	1322								.4	178	22	✓		18
19	1323								.4	92	26	✓		19
20	1324								.2	52	18	✓		20
21	1325								.4	60	20	✓		21
22	1326								.6	96	38	✓		22
23	1327								.6	116	38	✓		23
24	1328								.6	108	40	✓		24
25	1329								.4	96	64	✓		25
26	1330								.6	60	70	✓		26
27	1331								.4	56	46	✓		27
28	1332								1.0	104	60	✓		28
29	1333								.4	60	20	✓		29
30	1334								.2	20	6	✓		30
31	1335								.4	80	26	✓		31
32	1336								.2	42	12	✓		32
33	1337								.2	52	20	✓		33
34	1338								.2	44	10	✓		34
35	1339								.2	38	18	✓		35
36	1340								.2	40	10	✓		36
37	1341								.2	20	2	✓		37
38	1342								.4	32	18	✓		38
39	1343								.2	20	8	✓		39
40	G 1								.2	106	22	✓		40

Certified by C. Rossbacher

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GEOCHEMICAL ANALYSTS & ASSAYERS

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

(6)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8134

TO: Amax Minerals Exploration
525 Thurlow St. Vancouver

INVOICE NO.

PROJECT 791

DATE ANALYSED SEPT 7/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78FWS1385								.6	100	26	✓	✓	01
02	1386								.2	64	8	✓	✓	02
03	1387								.2	30	6	✓	✓	03
04	1388								.2	12	2	✓	✓	04
05	1389								.4	60	18	✓	✓	05
06	1390								.4	108	20	✓	✓	06
07	1391								.2	6	2	✓		07
08	1392								.6	116	22	✓		08
09	1393								.4	106	20	✓		09
10	1394								.4	100	20	✓		10
11	1395								.6	320	70	✓		11
12	1396								.8	280	84	✓		12
13	1397								.4	270	22	✓		13
14	1398								.2	40	6	✓		14
15	1399								.2	72	2	✓		15
16	1400								.2	12	2	✓		16
17	1401								.4	74	16	✓		17
18	1402								.2	32	12	✓		18
19	1403								.4	64	18	✓		19
20	1404								.4	68	26	✓		20
21	1405								.2	12	2	✓		21
22	1406								.2	20	6	✓		22
23	1407								.6	72	26	✓		23
24	1408								.6	136	28	✓		24
25	1409								.2	50	12	✓		25
26	1410								.6	120	32	✓		26
27	1411								.4	126	24	✓		27
28	1412								.2	74	20	✓		28
29	1413								.2	98	12	✓		29
30	1414								.2	12	6	✓		30
31	1415								.6	86	32	✓		31
32	1416								.6	72	30	✓		32
33	1417								.4	88	20	✓		33
34	1418								.4	50	16	✓		34
35	1419								.6	480	200	✓		35
36	1420								.2	50	16	✓		36
37	1421								.6	96	36	✓		37
38	1422								.4	120	30	✓		38
39	1423								.2	140	20	✓		39
40	G 7								.4	76	66			40

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GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
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TELEPHONE: 299-6910
AREA CODE: 604

(8)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8134

TO: Amax Minerals Exploration
635 Thurlow St. Van. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Sept 7/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78FWS1463								.6	150	48	✓		01
02	1464								.6	96	28	✓		02
03	1465								.4	52	18	✓		03
04	1466								.4	120	22	✓		04
05	1467								.4	28	12	✓		05
06	1468								.4	80	16	✓		06
07	1469								.4	96	14	✓		07
08	1470								.4	56	14	✓		08
09	1471								.4	68	22	✓		09
10	1472								.6	106	30	✓		10
11	1473								.2	24	6	✓		11
12	1474								.4	76	30	✓		12
13	1475								.6	80	26	✓		13
14	1476								.2	20	4	✓		14
15	1477								.4	86	30	✓		15
16	1478								.4	110	20	✓		16
17	1479								.4	80	22	✓		17
18	1480								.6	110	34	✓		18
19	1481								.6	170	28	✓		19
20	1482								.4	44	12	✓		20
21	1483								.4	80	26	✓		21
22	1484								.4	90	18	✓		22
23	1485								.4	120	30	✓		23
24	1486								.2	44	10	✓		24
25	1487								.4	80	26	✓		25
26	1488								.4	82	20	✓		26
27	1489								.6	98	30	✓		27
28	1490								.2	70	18	✓		28
29	1491								.6	124	34	✓		29
30	1492								.4	66	22	✓		30
31	1493								.4	90	30			31
32	1494								.4	66	26	✓		32
33	1495								.4	60	16	✓		33
34	1496								.6	108	26	✓		34
35	1497								.2	12	8	✓		35
36	1498								.4	60	18	✓		36
37	1499								.6	108	44	✓		37
38	1500								.4	52	26	✓		38
39	1501								.6	72	32	✓		39
40	G-1								.2	140	24			40

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Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
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TELEPHONE: 299-6910
AREA CODE: 604

(10)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8134

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED SEPT 8/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78FWS1541								.2	12	16	✓		01
02	1542								.4	40	20	✓		02
03	1543								.6	72	14	✓		03
04	1544								.4	76	16	✓		04
05	1545								.4	36	12	✓		05
06	1546								.6	40	12	✓		06
07	1547								.4	84	12	✓		07
08	1548								.2	22	4	✓		08
09	1549								.4	76	18	✓		09
10	1566								.4	106	20	✓		10
11	1551								.4	68	20	✓		11
12	1552								.2	48	6	✓		12
13	1553								.4	22	6	✓		13
14	1554								.4	70	16	✓		14
15	1555								.2	22	6	✓		15
16	1556								.2	6	2			16
17	1557								.4	56	18	✓		17
18	1558								.2	60	10	✓		18
19	1559								.2	90	6	✓		19
20	1560								.4	32	12	✓		20
21	1561								.6	40	12	✓		21
22	1562								.2	32	6	✓		22
23	1563								.4	72	22	✓		23
24	1564								.6	110	40	✓		24
25	1565								.6	116	20	✓		25
26	1566								.4	50	16	✓		26
27	1567								.4	90	24	✓		27
28	1568								.2	22	8	✓		28
29	1569								.2	18	6	✓		29
30	1570								.4	78	20	✓		30
31	1571								.2	40	10	✓		31
32	1572								.4	80	22	✓		32
33	1573								.2	20	10	✓		33
34	1574								.2	48	10	✓		34
35	1575								.4	40	8	✓		35
36	1576								.2	46	12	✓		36
37	1577								.2	22	4	✓		37
38	1578								.4	66	12	✓		38
39	1579								.2	80	12	✓		39
40	G7								.4	88	64			40

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Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

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

(12)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8134

TO: Amax Minerals Exploration
535 Thurlow St Van BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Sept 8/78

No.	Sample	pH	Mo	Cu	.	.	.		Ag	In	Pb			No.
01	78 FWS 1619								.2	66	16	✓		01
02	1620								.2	26	10	✓		02
03	1621								.2	6	6	✓		03
04	1622								.2	12	6	✓		04
05	1623								.2	52	10	✓		05
06	1624								.2	40	12	✓		06
07	1625								.2	60	16	✓		07
08	1626								.2	52	16	✓		08
09	1627								.2	16	8	✓		09
10	1628								.2	72	26	✓		10
11	1629								.2	26	12	✓		11
12	1630								.2	42	18	✓		12
13	1631								.2	58	24	✓		13
14	1632								.2	46	20	✓		14
15	1633								.4	36	18	✓		15
16	1634								.2	40	8	✓		16
17	1635								.4	96	22	✓		17
18	1636								.2	22	6	✓		18
19	1637								.4	108	24	✓		19
20	1638								.2	110	20	✓		20
21	1639								.2	148	20	✓		21
22	1640								.4	156	22	✓		22
23	1641								.6	110	40	✓		23
24	1642								.4	112	30	✓		24
25	1643								.2	28	6	✓		25
26	1644								.4	68	32	✓		26
27	1645								.2	32	8	✓		27
28	1646								.2	72	38	✓		28
29	1647								.2	24	8	✓		29
30	1648								.4	34	12	✓		30
31	1649								.2	30	10			31
32	1650								.2	48	14	✓		32
33	1651								.2	28	12	✓		33
34	1652								.2	72	18	✓		34
35	1366								.2	52	20	✓		35
36	1367								.2	72	16	✓		36
37														37
38														38
39														39
40	G 1								.2	116	36			40

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GEOCHEMICAL ANALYSTS & ASSAYERS

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

(2)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8111

TO: Amax Minerals Exploration
535 Thurlow Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 21/78

No.	Sample	pH	Mn	Cu					Ag	Zn	Pb			No.
01	70 FBS 1077								-2	16	6	✓		01
02	1078								.2	36	8	✓		02
03	1079								.4	28	14	✓		03
04	1080								.2	40	8	✓		04
05	1081								.4	48	4	✓		05
06	1082								.4	44	12	✓		06
07	1083								.8	64	24	✓		07
08	1084								.4	80	16	✓		08
09	1085								.4	52	18	✓		09
10	1086								.4	40	8	✓		10
11	1087								.4	66	20	✓		11
12	1088								.4	64	20	✓		12
13	1089								.4	78	24	✓		13
14	1090								.4	112	20	✓		14
15	1091								.4	48	12	✓		15
16	1092								.4	56	14	✓		16
17	1093								.6	64	18	✓		17
18	1094								.6	36	8	✓		18
19	1095								.6	60	12	✓		19
20	1096								.4	74	14	✓		20
21	1097								.6	44	12	✓		21
22	1098								.4	50	18	✓		22
23	1099								.4	28	16	✓		23
24	1100								.4	36	12	✓		24
25	1101								.4	48	14	✓		25
26	1102								.4	68	20	✓		26
27	1103								.6	60	18	✓		27
28	1104								.4	70	20	✓		28
29	1105								.6	16	2	✓		29
30	1106								.4	52	16	✓		30
31	1107								.2	36	12	✓		31
32	1108								.6	44	12	✓		32
33	1109								.6	56	16	✓		33
34	1110								.2	24	4	✓		34
35	1111								.4	14	2	✓		35
36	1112								.2	40	14	✓		36
37	1113								.2	28	8	✓		37
38	1114								.4	76	12	✓		38
39	1115								.6	220	20	✓		39
40	G 1								.4	108	22			40

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GEOCHEMICAL ANALYSTS & ASSAYERS

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

(4)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8111

TO: Amax Minerals Exploration
535 Thurlow Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 21/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78 FBS 1155								.8	76	28	✓		01
02	1156								.8	80	24	✓		02
03	1157								.6	84	24	✓		03
04	1158								.4	40	16	✓		04
05	1159								.4	54	18	✓		05
06	1160								.4	36	12	✓		06
07	1161								.4	52	22	✓		07
08	1162								.4	52	18	✓		08
09	1163								.2	14	4	✓		09
10	1164								.6	80	30	✓		10
11	1165								.6	66	24	✓		11
12	1166								.4	52	20	✓		12
13	1167								.6	72	20	✓		13
14	1168								.8	80	24	✓		14
15	1169								.2	32	6	✓		15
16	1170								.2	22	2	✓		16
17	1171								.6	90	20	✓		17
18	1172								.2	32	6	✓		18
19	1173								.4	40	8	✓		19
20	1174								.6	80	24	✓		20
21	1175								.2	40	12	✓		21
22	1176								.2	36	14	✓		22
23	1177								.2	16	2	✓		23
24	1178								.4	56	20	✓		24
25	1179								.6	100	24	✓		25
26	1180								.2	10	2	✓		26
27	1181								.2	18	6	✓		27
28	1182								.2	16	4	✓		28
29	1183								.4	56	22	✓		29
30	1184								.2	52	18	✓		30
31	1185								.6	88	24	✓		31
32	1186								.6	60	22	✓		32
33	1187								.6	52	20	✓		33
34	1188								.6	86	28	✓		34
35	1189								.2	20	8	✓		35
36	1190								.4	32	12	✓		36
37	1191								.4	40	16	✓		37
38	1192								.6	14	10	✓		38
39	1193								.6	104	44	✓		39
40	G-7								.4	76	72			40

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Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
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AREA CODE: 604

(6)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8111

TO: Amax Minerals Exploration
535 Thurlow Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 21/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78 FBS 1233								.8	160	28	✓		01
02	1234								.8	128	24	✓		02
03	1235								1.2	188	24	✓		03
04	1236								.6	112	24	✓		04
05	1237								.4	128	20	✓		05
06	1238								.6	114	16	✓		06
07	1239								.4	132	14	✓		07
08	1240								.8	150	16	✓		08
09	1241								.6	160	22	✓		09
10	1242								.6	140	12	✓		10
11	1243								.6	144	14	✓		11
12	1244								.6	154	16	✓		12
13	1245								.6	160	20	✓		13
14	1246								.6	80	16	✓		14
15	1247								.4	64	14	✓		15
16	1248								.6	92	20	✓		16
17	1249								.4	20	4	✓		17
18	1250								.4	36	12	✓		18
19	1251								.4	44	16	✓		19
20	1252								.4	28	6	✓		20
21	1253								.6	68	20	✓		21
22	1254								.4	60	16	✓		22
23	1255								1.0	80	6	✓		23
24	1256								.6	72	16	✓		24
25	1257								.4	20	4	✓		25
26	1258								1.0	162	32	✓		26
27	1259								.2	16	4	✓		27
28	1260								.2	24	2	✓		28
29	1261								.2	26	8	✓		29
30	G 1								.4	104	24	✓		30
31														31
32														32
33														33
34														34
35														35
36														36
37														37
38														38
39														39
40														40

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GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE., (2)
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Minerals Exploration
535 Thurlow St Van BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 1/78

No.	Sample	pH	~~Mo~~	~~Co~~					Ag	Zn	Pb			No.
01	78FBS 1301								1.0	184	28	✓		01
02	1302								.4	30	10	✓		02
03	1303								.6	82	20	✓		03
04	1304								.6	50	12	✓		04
05	1305								1.0	148	34	✓		05
06	1306								.2	8	4	✓		06
07	1307								.4	74	20	✓		07
08	1308								1.0	144	32	✓		08
09	1309								.8	136	32	✓		09
10	1310								.8	114	28	✓		10
11	1311								.6	100	22	✓		11
12	1312								.8	106	30	✓		12
13	1313								.8	148	28	✓		13
14	1314								.8	92	28	✓		14
15	1315								.8	114	30	✓		15
16	1316								.8	106	28	✓		16
17	1317								.8	124	28	✓		17
18	1318								.8	100	28	✓		18
19	1319								1.0	126	30	✓		19
20	1320								.8	68	16	✓		20
21	1321								.6	80	20	✓		21
22	1322								.6	78	20	✓		22
23	1323								1.2	114	28	✓		23
24	1324								1.0	98	18	✓		24
25	1325								.4	16	6	✓		25
26	1326								.2	12	4	✓		26
27	1327								.6	8	4	✓		27
28	1328								.6	36	18	✓		28
29	1329								.4	12	4	✓		29
30	1330								2	8	2	✓		30
31	1331								1.4	72	20	✓		31
32	1332								.2	8	2	✓		32
33	1333								.6	52	16	✓		33
34	1334								.4	8	2	✓		34
35	1335								.4	24	12	✓		35
36	1336								.6	76	24	✓		36
37	1337								.8	94	22	✓		37
38	1338								.4	50	16	✓		38
39	1339								.4	12	2	✓		39
40	G-6								2.4	350	>400			40

Certified by A. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

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

(4)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Minerals Exploration 535 Thurlow St Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	~~Mo~~	~~Cu~~					Ag	Zn	Pb			No.
01	78FBS1379								.8	120	28	✓		01
02	1380								1.0	132	28	✓		02
03	1381								.8	188	28	✓		03
04	1382								1.0	120	28	✓		04
05	1383								1.0	150	36	✓		05
06	1384								1.0	136	30	✓		06
07	1385								1.0	214	40	✓		07
08	1386								.8	136	28	✓		08
09	1387								.8	132	24	✓		09
10	1388								.6	104	20	✓		10
11	1389								.6	80	20	✓		11
12	1390								.6	96	18	✓		12
13	1391								.8	352	24	✓		13
14	1392								1.0	160	36	✓		14
15	1393								.6	72	20	✓		15
16	1394								.8	100	24	✓		16
17	1395								.4	56	10	✓		17
18	1396								.4	24	6	✓		18
19	1397								.8	110	24	✓		19
20	1398								.6	94	24	✓		20
21	1399								.4	60	12	✓		21
22	1400								.6	272	22	✓		22
23	1401								.8	156	24	✓		23
24	1402								.8	162	24	✓		24
25	1403								.8	150	20	✓		25
26	1404								.4	60	16	✓		26
27	1405								.6	72	16	✓		27
28	1406								.6	108	24	✓		28
29	1407								.8	94	24	✓		29
30	1408								.2	20	12	✓		30
31	1409								.2	12	4	✓		31
32	1410								.4	68	16	✓		32
33	1411								.6	92	20	✓		33
34	1412								.8	120	28	✓		34
35	1413								1.0	220	36	✓		35
36	1414								.6	136	28	✓		36
37	1415								.6	92	20	✓		37
38	1416								.8	112	28	✓		38
39	1417								.6	86	24	✓		39
40	91								.4	106	22			40

Certified by T. Rossbacher

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GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
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AREA CODE: 604

(6)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Minerals Exploration
535 Thurlow St Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 1/78

No.	Sample	pH	Mo	Cu					Pb	Zn	Ag				No.
01	78FBS 1456								8	24	.4	✓			01
02	1457								16	64	.6	✓			02
03	1458								12	60	.8	✓			03
04	1459								2	12	.2	✓			04
05	1460								20	40	.6	✓			05
06	1461								20	66	.8	✓			06
07	1462								8	20	.4	✓			07
08	1463								24	48	.6	✓			08
09	1464								20	50	.6	✓			09
10	1465								12	32	.6	✓			10
11	1466								20	100	.6	✓			11
12	1467								26	228	1.0	✓			12
13	1468								20	212	.8	✓			13
14	1469								16	152	1.0	✓			14
15	1470								16	156	1.0	✓			15
16	1471								28	150	1.2	✓			16
17	1472								30	180	1.4	✓			17
18	1473								26	186	1.2	✓			18
19	1474								12	106	.8	✓			19
20	(1475)								28	154	1.2	✓			20
21	1476								20	96	.8	✓			21
22	1477								18	80	.8	✓			22
23	1478								18	100	.8	✓			23
24	1479								12	52	.8	✓			24
25	1480								14	84	.4	✓			25
26	1481								26	126	.8	✓			26
27	1482								28	120	.8	✓			27
28	1483								28	104	.8	✓			28
29	1484								32	122	1.0	✓			29
30	(1485)								26	100	.8	✓			30
31	1486								16	80	.4	✓			31
32	1487								24	112	.6	✓			32
33	1488								8	28	.2	✓			33
34	1489								4	16	.2	✓			34
35	1490								6	20	.2	✓			35
36	1491								16	50	.4	✓			36
37	1492								8	36	.2	✓			37
38	1493								24	194	.8	✓			38
39	(1494)								28	192	.8	✓			39
40	927								>400		1.2				40

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GEOCHEMICAL ANALYSTS & ASSAYERS

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AREA CODE: 604

(10)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. B125

TO: Amax Minerals Exploration
535 Thurlow St. Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	~~Mo~~	~~Cu~~					Ag	Zn	Pb			No.
01	78 FBS 1612								.2	18	10			01
02	1613								.2	12	4	✓		02
03	1614								.6	52	24	✓		03
04	1615								.4	76	16	✓		04
05	1616								.2	42	18	✓		05
06	1617								.4	54	18	✓		06
07	1618								.4	52	20	✓		07
08	1619								.4	46	12	✓		08
09	1620								.2	36	8	✓		09
10	1621								.4	72	18	✓		10
11	1622								.4	72	18	✓		11
12	1623								.4	90	20	✓		12
13	1624								.6	92	24	✓		13
14	1625								.4	86	24	✓		14
15	1626								.6	96	24	✓		15
16	1627								.2	16	2	✓		16
17	1628								.4	100	10	✓		17
18	1629								.6	58	20	✓		18
19	1630								.4	72	12	✓		19
20	1631								.2	30	10	✓		20
21	1632								.4	40	16	✓		21
22	1633								.8	100	32	✓		22
23	1634								.4	40	16	✓		23
24	1635								.2	26	8	✓		24
25	1636								.8	76	32	✓		25
26	1637								.4	66	22	✓		26
27	1638								.4	48	12	✓		27
28	1639								.6	28	24	✓		28
29	1640								.2	52	20	✓		29
30	1641								.2	32	12	✓		30
31	1642								.4	60	28	✓		31
32	1643								2	26	12	✓		32
33	1644								.6	52	28	✓		33
34	1645								.2	56	12			34
35	1646								.2	14	4			35
36	1647								.2	18	10			36
37	1648								.6	88	48			37
38	1649								.4	42	12			38
39	1650								.2	12	2			39
40	G6								2.0	310	>400			40

Certified by C. Rossbacher

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GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
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AREA CODE: 604

(8)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. B125

TO: Amax Minerals Exploration
535 Thurlow St Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78 FBS 1534								.6	80	24	✓		01
02	1535								.4	52	14	✓		02
03	1536								.4	12	6	✓		03
04	1537								.6	140	2	✓		04
05	1538								.6	80	24	✓		05
06	1539								.6	92	20	✓		06
07	1540	→							.8	46	24	✓		07
08	L 1541	"							.6	106	18	✓		08
09	S 1542								.4	48	18	✓		09
10	1543								.6	16	8	✓		10
11	1544								.6	60	12	✓		11
12	1545								1.0	96	20	✓		12
13	1546								.8	48	10	✓		13
14	1547								1.6	16	2	✓		14
15	1548								.6	100	16	✓		15
16	1549								.6	132	16	✓		16
17	1550	→							.6	120	20	✓		17
18	1551								.6	40	8	✓		18
19	1552								.8	140	26	✓		19
20	1553								.6	88	20	✓		20
21	1554								.4	30	10	✓		21
22	1555								.8	44	12	✓		22
23	1556								1.0	74	22	✓		23
24	1557								.6	80	24	✓		24
25	1558								.6	88	26	✓		25
26	1559								.6	84	14	✓		26
27	1560								.4	104	14	✓		27
28	1561								.4	44	8	✓		28
29	1562								.4	44	6	✓		29
30	1563								.2	16	2	✓		30
31	1564								.2	20	8	✓		31
32	1565								.2	14	4	✓		32
33	1566								.6	84	24	✓		33
34	1567								.4	84	24	✓		34
35	1568								.4	64	22	✓		35
36	1569								.4	72	20	✓		36
37	1570								.6	112	20	✓		37
38	1571								.4	40	18	✓		38
39	(1572)								(.2	20	8)	✓		39
40	G27								1.2	.	>400			40

Certified by A Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

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AREA CODE: 604

(3)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8201

TO: AMAX MINERALS EXPLORATION, 601-535 THURLOW ST. VANC.

INVOICE NO.

PROJECT 791

DATE ANALYSED NOV 22/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	Fe						No.
01	78FBS1385		10	72	78	30	380	3.9						01
02	1391		8	46	68	46	400	3.8						02
03	1400		6	42	72	46	400	3.5						03
04	1576		2	32	38	20	700	2.5						04
05	1690		5	42	74	36	360	3.5						05
06	1691		2	20	30	14	380	1.8						06
07														07
08														08

FIELD ORGANIC

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GEOCHEMICAL ANALYSTS & ASSAYERS

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AREA CODE: 604

(12)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Minerals Exploration 535 Thurlow St Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78 FBS 1690								.6	260	16	✓		01
02	1691								.2	80	16	✓		02
03	1692								.4	88	24	✓		03
04	1693								.4	100	20	✓		04
05	1694								.2	76	16	✓		05
06	1695								.4	492	16	✓		06
07	1696								.4	68	12	✓		07
08	1697								.4	132	12	✓		08
09	1698								.2	40	6	✓		09
10	1699								.6	210	16	✓		10
11	1700								.2	14	4	✓		11
12	1701								.4	68	8	✓		12
13	1702								.6	20	16	✓		13
14	1703								.4	32	8	✓		14
15	1704								.2	18	4	✓		15
16	1705								.2	8	1	✓		16
17	1706								.2	8	1	✓		17
18	1707								.4	40	18	✓		18
19	1708								.2	8	1	✓		19
20	1709								.2	16	4	✓		20
21	1710								.4	96	16	✓		21
22														22
23														23
24														24
25														25

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GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
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TELEPHONE: 299-6910
AREA CODE: 604

(9)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Minerals Exploration
535 Thurlow St Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 1/78

No.	Sample	pH	Mo	Co					Ag	Zn	Pb			No.
01	78 FBS 1573								.2	14	4	✓		01
02	1574								.2	10	2	✓		02
03	1575								.6	56	24	✓		03
04	1576								.2	12	2	✓		04
05	1577								.4	74	18	✓		05
06	1578								.2	34	10	✓		06
07	1579								.4	96	30	✓		07
08	1580								.4	88	30	✓		08
09	1581								.4	108	36	✓		09
10	1582								.4	114	28	✓		10
11	1583								.4	106	22	✓		11
12	1584								.4	122	22	✓		12
13	1585								.6	80	28	✓		13
14	1586								.2	36	8	✓		14
15	1587								.2	50	2	✓		15
16	1588								.4	88	18	✓		16
17	1589								.4	64	18	✓		
18	1590								.4	42	10	✓		18
19	1591								.4	82	16	✓		19
20	1592								.2	14	2	✓		20
21	1593								.2	12	2	✓		21
22	1594								.2	24	4	✓		22
23	1595								.6	172	28	✓		23
24	1596								.4	160	24	✓		24
25	1597								.6	92	24	✓		25
26	1598								.8	110	30	✓		26
27	1599								.6	104	28	✓		27
28	1600								.4	40	12	✓		28
29	1601								.2	46	16	✓		29
30	1602								.2	22	4	✓		30
31	1603								.6	100	30	✓		31
32	1604								.4	84	28	✓		32
33	1605								.4	80	38	✓		33
34	1606								.4	76	24	✓		34
35	1607								.2	82	4	✓		35
36	1608								.2	22	4	✓		36
37	1609								.2	20	6	✓		37
38	1610								.2	20	8	✓		
39	1611								.4	84	16	✓		
40	1611								.4	106	24			40

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GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
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AREA CODE: 604

(14)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Minerals Exploration
535 Thurlow St. Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 1/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78 FBS 1651								.4	24	8	✓		01
02	1652								.2	22	8	✓		02
03	1653								.4	50	24	✓		03
04	1654								.6	66	24	✓		04
05	1655								.6	56	28	✓		05
06	1656								.8	60	28	✓		06
07	1657								.2	16	2	✓		07
08	1658								.4	30	12	✓		08
09	1659								.4	42	14	✓		09
10	1660								.4	88	24	✓		10
11	1661								.6	136	28	✓		11
12	1662								.4	96	32	✓		12
13	1663								.2	20	8	✓		13
14	1664								.4	30	12	✓		14
15	1665								.8	74	32	✓		15
16	1666								.4	36	14	✓		16
17	1667								.2	20	10	✓		
18	1668								.6	70	26	✓		18
19	1669								.6	100	28	✓		19
20	1670								.6	100	24	✓		20
21	1671								.2	22	4	✓		21
22	1672								.2	16	2	✓		22
23	1673								.2	16	4	✓		23
24	1674								.2	20	2	✓	✓	24
25	1675								.2	88	2	✓	✓	25
26	1676								.4	104	20	✓	✓	26
27	1677								.6	76	24	✓	✓	27
28	1678								.2	20	4	✓	✓	28
29	1679								.4	36	16	✓	✓	29
30	1680								.2	32	8	✓	✓	30
31	1681								.4	114	18	✓	✓	31
32	1682								.2	52	6	✓		32
33	1683								.2	44	6	✓	✓	33
34	1684								.4	90	18	✓	✓	34
35	1685								.8	120	24	✓	✓	35
36	1686								.8	112	30	✓	✓	36
37	1687								.6	170	28	✓		37
38	1688								.4	124	16	✓		38
39	1689								.6	292	22	✓		39
40	691								.4	112	24			40

Certified by C. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
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AREA CODE: 604

(7)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Minerals Exploration
535 Thurlow St Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/79

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78 FBS 1495								.4	40	16			01
02	1496								.4	96	20			02
03	L 1497								.6	104	24	✓		03
04	S 1498								.2	20	8	✓		04
05	1499								.4	72	24	✓		05
06	1500								.6	154	24	✓		06
07	1501								.2	12	4	✓		07
08	1502								.8	148	56	✓		08
09	1503								.6	112	28	✓		09
10	1504								.6	104	20	✓		10
11	1505								.4	80	20	✓		11
12	1506								.6	88	20	✓		12
13	1507								.6	106	24	✓		13
14	1508								.4	82	20	✓		14
15	1509								.4	76	20	✓		15
16	1510								.6	94	28	✓		16
17	1511								.6	96	32	✓		
18	1512								.6	84	32	✓		18
19	1513								.2	22	6	✓		19
20	1514								.4	56	20	✓		20
21	1515								.8	214	30	✓		21
22	1516								1.0	280	244	✓		22
23	1517								.2	26	10	✓		23
24	1518								.2	32	14	✓		24
25	1519								.4	60	22	✓		25
26	1520								.4	48	20	✓		26
27	1521								.4	62	18	✓		27
28	1522								.4	46	24	✓		28
29	1523								.6	184	28	✓		29
30	1524								.4	108	20	✓		30
31	1525								.2	20	2	✓		31
32	1526								.6	44	20	✓		32
33	1527								.4	76	24			33
34	1528								.6	72	24			34
35	1529								.6	70	22	✓		35
36	1530								.6	84	22	✓		36
37	1531								.8	108	24	✓		37
38	1532								.6	88	20	✓		
39	1533								.8	90	20	✓		39
40	G-7								.4	80	72			40

Certified by C. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

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

(6)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Minerals Exploration
535 Thurlow St Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 8/78

No.	Sample	pH	~~Mo~~	~~Cu~~					Ag	Zn	Pb			No.
01	78FBS 1418								.4	40	12	✓		01
02	1419								.6	72	16	✓		02
03	1420								.6	76	18	✓		03
04	1421								.4	34	10	✓		04
05	1422								.2	16	2	✓		05
06	1423								.6	70	22	✓		06
07	1424								.6	76	18	✓		07
08	1425								.4	50	20	✓		08
09	1426								.2	40	16	✓		09
10	1427								.4	32	8	✓		10
11	1428								.4	40	12	✓		11
12	1429								.4	26	8	✓		12
13	1430								.4	68	12	✓		13
14	1431								.6	32	12	✓		14
15	1432								.2	32	8	✓		15
16	1433								.4	52	14	✓		16
17	1434								.6	60	14	✓		
18	1435								.6	52	28	✓		18
19	1436								.6	48	22	✓		19
20	1437								.2	8	8	✓		20
21	1438								.2	14	2	✓		21
22	1439								.2	22	8	✓		22
23	1440								.2	30	12	✓		23
24	1441								.6	30	12			24
25	1442								.6	50	20	✓		25
26	1443								.2	16	4	✓		26
27	1444								.6	60	24	✓		27
28	1445								.6	58	20	✓		28
29	1446								.4	44	16	✓		29
30	1447								.2	14	2	✓		30
31	1448								.6	72	16	✓		31
32	1449								.8	116	28	✓		32
33	1450								.4	28	24	✓		33
34	1451								.6	40	16	✓		34
35	1452								.6	24	16	✓		35
36	1453								.2	16	8	✓		36
37	1454								.4	40	18	✓		37
38	1455								.4	44	16	✓		
39	~~1456~~								-	-	-			39
40	~~66~~								3.0	368	-			40

Certified by E. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

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

(3)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Minerals Exploration
535 Thurlow St Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 1/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78 FBS 1340								2.0	62	12	✓		01
02	1341								.6	80	20	✓		02
03	1342								1.0	52	20	✓		03
04	1343								.8	110	26	✓		04
05	1344								.6	126	18	✓		05
06	1345								.4	44	20	✓		06
07	1346								.6	90	22	✓		07
08	1347								.6	54	20	✓		08
09	1348								.6	52	20	✓		09
10	1349								.4	44	14	✓		10
11	1350								.4	32	14	✓		11
12	1351								.6	60	16	✓		12
13	1352								.2	44	14	✓		13
14	1353								.4	66	16	✓		14
15	1354								.4	52	16	✓		15
16	1355								.4	20	6	✓		16
17	1356								.2	18	2	✓		
18	1357								.2	8	2	✓		18
19	1358								.4	26	8	✓		19
20	1359								.2	12	4	✓		20
21	1360								.6	26	24	✓		21
22	1361								.4	80	18	✓		22
23	1362								.6	56	20	✓		23
24	1363								.4	68	16	✓		24
25	1364								.2	16	2	✓		25
26	1365								.6	72	18	✓		26
27	1366								.4	68	16	✓		27
28	1367								.6	110	20	✓		28
29	1368								.4	60	14	✓		29
30	1369								.4	72	16	✓		30
31	1370								.4	58	12	✓		31
32	1371								.4	32	12	✓		32
33	1372								.6	56	20	✓		33
34	1373								.4	16	10	✓		34
35	1374								.4	76	30	✓		35
36	1375								.4	64	14	✓		36
37	1376								.4	36	12	✓		37
38	1377								.2	14	4	✓		
39	1378								.2	30	6	✓		39
40	67								.8	76	64	✓		40

Certified by C. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

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

(1)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Minerals Exploration
535 Thurlow St Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78FBS 1262								.4	46	18	✓		01
02	1263								1.2	68	14	✓		02
03	1264								.6	42	16	✓		03
04	1265								.6	60	20	✓		04
05	1266								.4	32	16	✓		05
06	1267								.6	40	20	✓		06
07	1268								.6	52	20	✓		07
08	1269								.6	42	20	✓		08
09	1270								.6	52	20	✓		09
10	1271								.4	44	20	✓		10
11	1272								.4	32	18	✓		11
12	1273								.4	38	16	✓		12
13	1274								.6	60	20	✓		13
14	1275								.6	50	20	✓		14
15	1276								.4	56	20	✓		15
16	1277								.2	16	2	✓		16
17	1278								.2	16	4	✓		
18	1279								.4	32	16	✓		18
19	1280								.4	48	8	✓		19
20	1281								.2	6	2	✓		20
21	1282								.6	74	28	✓		21
22	1283								.6	56	24	✓		22
23	1284								.2	20	8	✓		23
24	1285								.2	24	6	✓		24
25	1286								.2	28	8	✓		25
26	1287								.2	12	2	✓		26
27	1288								.2	14	4	✓		27
28	1289								.2	12	2	✓		28
29	1290								.2	12	2	✓		29
30	1291								.2	24	4	✓		30
31	1292								.2	52	8	✓		31
32	1293								.2	28	8	✓		32
33	1294								.2	20	2	✓		33
34	1295								.2	28	8	✓		34
35	1296								.6	60	24	✓		35
36	1297								.4	52	12	✓		36
37	1298								.4	32	20	✓		37
38	1299								.2	14	4	✓		38
39	1300								.2	12	4	✓		39
40	GT								.7	108	24			40

Certified by C. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

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

(5)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8111

TO: Amax Minerals Exploration Vancouver BC
535 Thurlow

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 21/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78 FBS 1194								.8	54	20	✓		01
02	1195								.6	96	20	✓		02
03	1196								.6	120	20	✓		03
04	1197								.4	92	16	✓		04
05	1198								.2	64	10	✓		05
06	1199								.4	40	12	✓		06
07	1200								.4	72	16	✓		07
08	1201								.4	72	12	✓		08
09	1202								.2	48	10	✓		09
10	1203								.2	44	4	✓		10
11	1204								.2	38	8	✓		11
12	1205								.4	66	16	✓		12
13	1206								.2	70	12	✓		13
14	1207								.2	78	18	✓		14
15	1208								.2	16	4	✓		15
16	1209								.2	44	8	✓		16
17	1210								.2	28	6	✓		
18	1211								.4	44	10	✓		18
19	1212								.2	16	2	✓		19
20	1213								.2	26	4	✓		20
21	1214								.4	52	16	✓		21
22	1215								.4	38	8	✓		22
23	1216								.8	132	28	✓		23
24	1217								.8	148	32	✓		24
25	1218								.6	50	12	✓		25
26	1219								.6	80	18	✓		26
27	1220								.2	20	2	✓		27
28	1221								.6	96	18	✓		28
29	1222								.6	14	2	✓		29
30	1223								.4	16	8	✓		30
31	1224								.4	54	12	✓		31
32	1225								1.0	140	40	✓		32
33	1226								.6	80	28	✓		33
34	1227								.8	120	30	✓		34
35	1228								.6	112	30	✓		35
36	1229								.8	140	26	✓		36
37	1230								.8	152	24	✓		37
38	1231								.8	124	28	✓		38
39	1232								.8	126	32	✓		39
40	6527								1.6	600	300			40

Certified by C. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

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

(3)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8111

TO: Amax Minerals Exploration 535 Thurlow Vancouver BC

INVOICE NO.

PROJECT 781

DATE ANALYSED Aug 21/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78 FBS 1116								.6	44	26	✓		01
02	1117								.8	204	20	✓		02
03	1118								.8	142	14	✓		03
04	1119								.6	106	16	✓		04
05	1120								.2	52	12	✓		05
06	1121								.2	56	16	✓		06
07	1122								.6	124	8	✓		07
08	1123								.2	44	8	✓		08
09	1124								.4	146	12	✓		09
10	1125								.2	64	12	✓		10
11	1126								.4	56	12	✓		11
12	1127								.4	102	8	✓		12
13	1128								.4	48	16	✓		13
14	1129								.4	68	14	✓		14
15	1130								.4	72	12	✓		15
16	1131								.2	38	6	✓		16
17	1132								.4	36	10	✓		
18	1133								.2	32	8	✓		18
19	1134								.4	28	10	✓		19
20	1135								.4	56	8	✓		20
21	1136								.6	24	16	✓		21
22	1137								.4	56	4	✓		22
23	1138								.2	72	8	✓		23
24	1139								.2	26	14	✓		24
25	1140								.2	24	4	✓		25
26	1141								.2	16	10	✓		26
27	1142								.2	12	4	✓		27
28	1143								.2	12	2	✓		28
29	1144								.4	60	18	✓		29
30	1145								.2	18	4	✓		30
31	1146								.2	52	20	✓		31
32	1147								.2	20	4	✓		32
33	1148								.2	18	6	✓		33
34	1149								.4	84	20	✓		34
35	1150								.4	16	4	✓		35
36	1151								.4	16	4	✓		36
37	1152								.4	28	16	✓		37
38	1153								.8	68	26	✓		
39	1154								2.0	50	24	✓		39
40	GG								3.0	328	> 400			40

Certified by R. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

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

(1)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8111

INVOICE NO.

DATE ANALYSED Aug 21/78

TO: Amax Minerals Exploration
535 Thurlow Vancouver BC

PROJECT 791

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78 FBS 1038			12					.4	28	8	✓		01
02	1039			18					.4	56	20	✓		02
03	1040			24					.4	54	16	✓		03
04	1041			70					.4	28	10	✓		04
05	1042			18					.2	56	10	✓		05
06	1043			40					.2	24	2	✓		06
07	1044			50					.8	76	10	✓		07
08	1045			32					.8	72	16	✓		08
09	1046			28					.6	76	22	✓		09
10	1047			18					.4	68	18	✓		10
11	1048			40					.6	160	34	✓		11
12	1049			30					.4	124	30	✓		12
13	1050			20					.4	72	18	✓		13
14	1051			12					.4	50	20	✓		14
15	1052			12					.4	44	20	✓		15
16	1053			16					.4	50	18	✓		16
17	1054			28					.4	130	24	✓		17
18	1055			16					.4	58	18	✓		18
19	1056			18					.6	64	16			19
20	1057			10					.4	12	4	✓		20
21	1058			20					.8	38	14	✓		21
22	1059			4					.4	8	2	✓		22
23	1060			10					.4	66	20	✓		23
24	1061			22					.4	40	20	✓		24
25	1062			12					.4	60	8	✓		25
26	1063			4					.2	12	2	✓		26
27	1064			12					.6	32	8	✓		27
28	1065			10					.4	20	12	✓		28
29	1066			16					.4	44	10	✓		29
30	1067			16					.4	44	18	✓		30
31	1068			28					.6	68	18	✓		31
32	1069			30					.6	70	18	✓		32
33	1070			28					.6	78	18	✓		33
34	1071			36					.6	80	22	✓		34
35	1072			18					.4	64	20	✓		35
36	1073			16					.4	44	16	✓		36
37	1074			14					.4	60	10	✓		37
38	1075			14					.4	56	14	✓		38
39	1076			12					.2	40	12	✓		39
40				352					24	340	>400			40

Certified by C. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

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

(11)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8134

INVOICE NO.

DATE ANALYSED Sept 8/78

TO: Amax Minerals Exploration
535 Thurlow St. Vanc. B.C.

PROJECT 791

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78-WS1580								.4	256	32	✓		01
02	1581								.6	140	32	✓		02
03	1582								.4	76	26	✓		03
04	1583								.4	128	28	✓		04
05	1584								.4	100	26	✓		05
06	1585								.6	104	36	✓		06
07	1586								.2	24	12	✓		07
08	1587								.6	102	60	✓		08
09	1588								.4	82	36	✓		09
10	1589								.4	52	18	✓		10
11	1590								.2	24	8	✓		11
12	1591								.2	52	14	✓		12
13	1592								.2	36	12	✓		13
14	1593								2	28	14	✓		14
15	1594								.2	10	2	✓		15
16	1595								.4	74	20	✓		16
17	1596								.2	16	4	✓		
18	1597								.2	6	2	✓		18
19	1598								.2	10	2	✓		19
20	1599								.2	58	10	✓		20
21	1600								.2	40	6	✓		21
22	1601								.4	96	24	✓		22
23	1602								.2	72	14	✓		23
24	1603								.2	72	12	✓		24
25	1604								.4	74	12	✓		25
26	1605								.4	64	8	✓		26
27	1606								.6	80	20	✓		27
28	1607								.2	22	10	✓		28
29	1608								.2	26	6	✓		29
30	1609								.2	20	4	✓		30
31	1610								.4	70	22	✓		31
32	1611								.6	110	32	✓		32
33	1612								.6	80	20	✓		33
34	1613								.6	66	22	✓		34
35	1614								.2	20	8	✓		35
36	1615								.2	60	10	✓		36
37	1616								.4	66	12	✓		37
38	1617								.6	152	22	✓		38
39	1618								.4	124	10	✓		39
40	627								1.0	[illegible]	400			40

Certified by L. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

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

(9)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8134

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Sept 7/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78FWSB02								.2	48	16	✓		01
02	1503								.2	72	24	✓		02
03	1504								.2	10	2	✓		03
04	1505								.6	100	36	✓		04
05	1506								.2	22	4	✓		05
06	1507								.2	48	10	✓		06
07	1508		NO		SAMPLE				—	<	—			07
08	1509								.4	78	22			08
09	1510								.2	36	8	✓		09
10	1511								.4	88	24	✓		10
11	1512								.4	50	18	✓		11
12	1513								.2	46	12	✓		12
13	1514								.2	66	4	✓		13
14	1515								.4	50	12	✓		14
15	1516								.4	226	32	✓		15
16	1517								.4	70	12	✓		16
17	1518								.4	52	20	✓		
18	1519								.2	32	12	✓		18
19	1520								.4	72	18	✓		19
20	1521								.2	24	8	✓		20
21	1522								.2	12	2	✓		21
22	1523								.2	26	6	✓		22
23	1524								.2	10	4	✓		23
24	1525								.2	12	8	✓		24
25	1526								.2	16	10	✓		25
26	1527								.6	120	30	✓		26
27	1528								.4	52	18	✓		27
28	1529								.8	84	26	✓		28
29	1530								.4	44	14	✓		29
30	1531								.2	18	4	✓		30
31	1532								.2	10	2	✓		31
32	1533								.4	72	22	✓		32
33	1534								.2	14	6	✓		33
34	1535								.6	176	30	✓		34
35	1536								.4	80	20	✓		35
36	1537								.4	70	32	✓		36
37	1538								.4	80	8	✓		37
38	1539								.8	260	36	✓		38
39	1540								.4	96	32	✓		39
40	G-6								4.0	349	410			40

Certified by C. Rossbacher

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GEOCHEMICAL ANALYSTS & ASSAYERS

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

(7)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8134

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Sept 7/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78FNS1424								.6	104	36	✓		01
02	1425								.4	64	22	✓		02
03	1426								.4	24	8	✓		03
04	1427								.4	84	24	✓		04
05	1428								.4	38	14	✓		05
06	1429								.4	76	14	✓		06
07	1430								.4	32	14	✓		07
08	1431								.4	110	28	✓		08
09	1432								.4	116	26	✓		09
10	1433								.4	80	28	✓		10
11	1434								.2	20	6	✓		11
12	1435								.8	128	50	✓		12
13	1436								.6	208	48	✓		13
14	1437								.6	136	70	✓		14
15	1438								.4	80	12	✓		15
16	1439								.2	60	12	✓		16
17	1440								.4	166	26	✓		
18	1441								.2	14	8	✓		18
19	1442								.2	18	8	✓		19
20	1443								.2	56	16	✓		20
21	1444								.2	44	10	✓		21
22	1445								.2	40	12	✓		22
23	1446								.2	66	14	✓		23
24	1447								.4	94	14	✓		24
25	1448								.2	34	14	✓		25
26	1444								.2	86	20	✓		26
27	1450								.2	36	8	✓		27
28	1451								.2	20	4	✓		28
29	1452								1.2	880	128	✓		29
30	1453								.6	136	52	✓		30
31	1454								.8	178	66	✓		31
32	1455								.6	108	52	✓		32
33	1456								.4	128	42	✓		33
34	1457								.4	84	18	✓		34
35	1458								.4	20	8	✓		35
36	1459								.6	190	26	✓		36
37	1460								.4	54	16	✓		37
38	1461								.4	32	20	✓		38
39	1462								.4	38	12	✓		39
40	G 27								1.2	7400				40

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GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
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AREA CODE: 604

(5)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8134

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED SEPT. 7/78

No.	Sample	pH	Mo	Cu					As	Zn	Pb			No.
01	78FWS1344								.4	40	20	✓		01
02	1345								.4	60	26	✓		02
03	1346								.4	76	28	✓		03
04	1347								.2	52	20	✓		04
05	1348								.2	46	22	✓		05
06	1349								.2	40	12	✓		06
07	1350								.2	26	10	✓		07
08	1351								.6	112	36	✓		08
09	1352								.2	36	14	✓		09
10	1353								.2	26	12	✓		10
11	1354								.8	92	44	✓		11
12	1355								.8	112	44	✓		12
13	1356								.6	60	28	✓		13
14	1357								.2	36	8	✓		14
15	1358								.6	90	22	✓		15
16	(1359)								.6	66	24	✓		16
17	(1360)	→							.4	32	14	✓✓		
18	1361								.4	32	12	✓✓		18
19	1362								.4	64	16	✓✓		19
20	1363								.4	64	18	✓✓		20
21	1364								.4	56	16	✓✓		21
22	1365								.2	10	2	✓✓		22
23	1368								.2	12	2	✓✓		23
24	1369								.6	256	28	✓✓		24
25	1370								.6	188	30	✓✓		25
26	1371								.4	164	26	✓✓		26
27	1372								.4	152	136	✓		27
28	1373								.6	200	110	✓		28
29	1374								.6	230	76	✓		29
30	1375								.6	168	48	✓		30
31	1376								.6	200	48	✓		31
32	1377								.6	108	32	✓		32
33	1378								.6	80	24	✓		33
34	1379								.6	78	20	✓		34
35	1380								.2	52	10	✓		35
36	1381								.4	56	20	✓		36
37	1382								1.0	88	32	✓		37
38	1383								.4	76	24	✓		
*39	1384								.2	36	8	✓		39
40	STD								34	340	400			40

Certified by J. Rossbacher

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GEOCHEMICAL ANALYSTS & ASSAYERS

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AREA CODE: 604

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Minerals Exploration
575 Thurlow St Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 5/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78 FWS 1275								.4	96	24	✓		01
02	1276								.2	80	16	✓		02
03	1277								.2	56	28	✓		03
04	1278								.2	16	2	✓		04
05	1279								.4	100	28	✓		05
06	1280								.2	48	24	✓		06
07	1281								.2	10	2	✓		07
08	1282								.2	60	8	✓		08
09	1283								.4	78	17	✓		09
10	1284								.4	92	16	✓		10
11	1285								.4	92	16	✓		11
12	1286								.4	58	12	✓		12
13	1287								.4	60	16	✓		13
14	1288								.4	44	16	✓		14
15	1289								.2	16	4	✓		15
16	1290								.2	72	8	✓		16
17	1291								.2	16	8	✓		
18	1292								.4	52	18	✓		18
19	1293								.4	80	20	✓		19
20	1294								.4	96	20	✓		20
21	1295								.4	96	20	✓		21
22	1296								.4	120	18	✓		22
23	1297								.2	76	12	✓		23
24	1298								.2	12	2	✓		24
25	1299								.4	68	40	✓		25
26	1300								.2	40	12	✓		26
27	1301								.4	64	12	✓		27
28	1302								.2	52	24	✓		28
29	1303								.4	64	10	✓		29
30	1304								.2	14	1	✓		30
31	1210								.8	108	12	✓		31
32	1211								.6	60	16	✓		32
33	G 1								.4	104	24			33
34														34
35														35
36														36
37														37
38														
39														39
40														40

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AREA CODE: 604

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Minerals Exploration
535 Thurlow St Vancouver BC

INVOICE NO.

PROJECT 7911

DATE ANALYSED Aug 1/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78 FWS 1193								.4	60	12	✓		01
02	1194								.4	88	16	✓		02
03	1195								.2	8	1	✓		03
04	1196								.2	40	12	✓		04
05	1197								.6	64	16	✓		05
06	1198								.2	28	4	✓		06
07	1199								.8	92	22	✓		07
08	1200								.6	76	24	✓		08
09	1201								.2	52	12	✓		09
10	1202								.6	20	4	✓		10
11	1203								.4	108	12	✓		11
12	1204								.6	110	12	✓		12
13	1205								.4	52	8	✓		13
14	1206								.6	176	16	✓		14
15	1207								.6	72	8	✓		15
16	1208								.6	140	20	✓		16
17	1209								.4	70	12	✓		
18	1212								.4	50	16	✓		18
19	1213								.4	52	10	✓		19
20	1214								.4	78	20	✓		20
21	1215								.2	68	12	✓		21
22	1216								.2	26	8	✓		22
23	1217								.2	28	4	✓		23
24	1218								.4	88	8	✓		24
25	1219								.2	12	2	✓		25
26	1220								.2	88	4	✓		26
27	1221								.2	12	2	✓		27
28	1222								.4	92	16	✓		28
29	1223								.2	12	4	✓		29
30	1224								.2	6	1	✓		30
31	1225								.8	92	40	✓		31
32	1226								.2	20	8	✓		32
33	1227								.4	68	40	✓		33
34	1228								.4	56	8	✓		34
35	1229								.2	78	2	✓		35
36	1230								.2	80	18	✓		36
37	1231								.2	90	16	✓		37
38	1232								.2	48	4	✓		
39	1233								.2	36	12	✓		39
40	G 27								1.6	800	410			40

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GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Minerals Exploration
535 Thurlow St. Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78 FWS 1113								.2	20	4	✓		01
02	1114								.2	20	4	✓		02
03	1115								.2	12	2	✓		03
04	1116								.2	8	2	✓		04
05	1118								.2	10	2	✓		05
06	1119								.2	36	16	✓		06
07	1120								.2	16	2	✓		07
08	1121								.2	10	2	✓		08
09	1122								.2	12	2	✓		09
10	1123								.4	50	16	✓		10
11	1124								.2	42	12	✓		11
12	1125								.2	30	12	✓		12
13	1126								.4	88	24	✓		13
14	1127								.4	40	16	✓		14
15	1128								.4	72	12	✓		15
16	1129								.4	70	16	✓		14
17	1130								.4	38	8	✓		
18	1131								.2	32	8	✓		18
19	1132								.2	16	4	✓		19
20	1133								.2	12	2	✓		20
21	1134								.4	128	32	✓		21
22	1135								.2	22	2	✓		22
23	1136								.2	32	2	✓		23
24	1137								.4	58	8	✓		24
25	1138								.2	12	2	✓		25
26	1139								.4	96	8	✓		26
27	1140								.4	92	24	✓		27
28	1141								.2	20	2	✓		28
29	1142								.4	36	28	✓		29
30	1143								.4	80	16	✓		30
31	1144								.4	76	16	✓		31
32	1145								.4	84	16	✓		32
33	1146								.4	136	24	✓		33
34	1147								.2	68	16	✓		34
35	1148								.4	76	16	✓		35
36	1149								.2	140	16	✓		36
37	1150								.2	66	4	✓		37
38	1151								.4	58	12	✓		
39	1152								.2	12	2	✓		39
40	1127								1.4	x	x			40

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Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
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AREA CODE: 604

(15)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Minerals Exploration
535 Thurlow SE Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78 FWS 1034								.4	34	16	✓		01
02	1035								.2	12	4	✓		02
03	1036								.2	20	12	✓		03
04	1037								.4	38	8	✓		04
05	1038								.4	56	16	✓		05
06	1039								.4	44	12	✓		06
07	1040								.2	24	8	✓		07
08	1041								.2	20	8	✓		08
09	1042								.4	82	16	✓		09
10	1043								.2	70	26	✓		10
11	1044								.2	30	4	✓		11
12	1045								.2	26	4	✓		12
13	1046								.2	20	12	✓		13
14	1047								.4	36	8	✓		14
15	1048								.2	34	12	✓		15
16	1049								.2	34	16	✓		16
17	1050A								.2	12	2	✓		1
18	1051								.4	76	12	✓		18
19	1052								.4	84	16	✓		19
20	1053								.4	74	16	✓		20
21	1054								.4	30	8	✓		21
22	1055								.4	46	16	✓		22
23	1056								.4	48	12	✓		23
24	1057								.2	26	4	✓		24
25	1058								.4	92	16	✓		25
26	1059								.2	16	4	✓		26
27	1060								.2	58	16	✓		27
28	1061								.2	20	8	✓		28
29	1062								.2	36	16	✓		29
30	1063								.2	16	8	✓		30
31	1064								.2	84	24	✓		31
32	1065								.4	56	16	✓		32
33	1066								.2	8	2	✓		33
34	1067								.4	160	12	✓		34
35	1068								.6	120	28	✓		35
36	1069								.6	72	120	✓		36
37	1070								.2	40	6	✓		37
38	1071								.2	48	8	✓		
39	1072								.2	16	2	✓		39
40	T-C								3.0	300	X			40

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Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
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AREA CODE: 604

(13)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Minerals Exploration
535 Thurlow St Vancouver B C

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78FWS 956								.4	92	14	✓		01
02	957								.6	130	24	✓		02
03	958								.4	72	16	✓		03
04	959								.8	132	28	✓		04
05	960								.8	110	24	✓		05
06	961								.6	100	24	✓		06
07	962								.4	110	20	✓		07
08	963								.8	120	24	✓		08
09	964								.6	104	24	✓		09
10	965								.8	120	26	✓		10
11	966								.4	80	16	✓		11
12	967								.4	82	24	✓		12
13	968								.6	84	20	✓		13
14	969								.6	82	20	✓		14
15	970								.6	88	20	✓		15
16	971								.6	82	20	✓		16
17	972								.6	94	24	✓		17
18	(973)								.4	80	20	✓		18
19	974								.6	92	24	✓		19
20	975								.6	70	18	✓		20
21	976								.6	92	28	✓		21
22	977								.4	90	20	✓		22
23	978								.8	94	28	✓		23
24	979								.6	96	22	✓		24
25	980								.4	140	24			25
26	991								.6	70	20			26
27	982								.6	96	22	✓		27
28	983								.4	60	16			28
29	984								.2	22	6			29
30	(985)								.4	50	16	✓		30
31	986								.6	80	20	✓		31
32	987								.6	84	24	✓		32
33	988								.4	48	14	✓		33
34	989								.2	32	12	✓		34
35	990								.4	48	16	✓		35
36	991								.4	44	16	✓		36
37	992								.4	42	14	✓		37
38	993								.2	16	6	✓		38
39	994								.4	54	18	✓		39
40	G6								3.0	320	>40			40

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Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
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AREA CODE: 604

(11)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8111

TO: Amax Minerals Exploration
535 Thurlow St. Vern. B.C.

INVOICE NO.

PROJECT 741

DATE ANALYSED Aug 178

No.	Sample	pH	Mg	Ca					Ag	Zn	Pb			No.
01	78-FS-913								.4	30	8	✓		01
02	914								.2	10	2	✓		02
03	915								.2	8	2	✓		03
04	916								.6	60	20	✓		04
05	917								.2	12	4	✓		05
06	918								.4	54	16	✓		06
07	919								.2	20	12	✓		07
08	920								.2	12	4	✓		08
09	921								.4	44	16	✓		09
10	922								.4	16	10	✓		10
11	923								.2	8	4	✓		11
12	924								.4	48	16	✓		12
13	925								.2	24	10	✓		13
14	926								.6	66	20	✓		14
15	927								.4	24	8	✓		15
16	928								.4	14	8	✓		16
17	929								.2	14	6	✓		
18	930								.4	22	10	✓		18
19	931								.2	8	4	✓		19
20	932								.2	20	4			20
21	933								.2	10	4	✓		21
22	(934)								.2	18	8	✓		22
23	935								.6	76	28			23
24	(936)								.6	68	28	✓		24
25	937								.2	14	4	✓		25
26	938								.6	62	18	✓		26
27	934								1.0	160	28	✓		27
28	940								.6	120	20	✓		28
29	941								.8	154	20	✓		29
30	942								1.2	116	24	✓		30
31	943								.4	40	12	✓		31
32	944								.2	12	4	✓		32
33	945								.4	72	22	✓		33
34	446								.4	70	16	✓		34
35	947								.4	42	8	✓		35
36	948								.6	92	16	✓		36
37	949								.8	106	22	✓		37
38	950								.6	114	16	✓		
39	951								.6	88	20	✓		
40	G-1								1.6	780	>400			40

Certified by T. Rossbacher

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GEOCHEMICAL ANALYSTS & ASSAYERS

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TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8111

TO: Amax Minerals Exploration
835 Thurlow Street, Vanc. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 1/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78FWS835								1.0	88	18	✓		01
02	836								.6	84	20	✓		02
03	837								.6	32	10	✓		03
04	838								1.8	124	24	✓		04
05	839								.6	64	20	✓		05
06	840								.6	48	10	✓		06
07	841								.6	66	18	✓		07
08	842								.4	62	16	✓		08
09	843								.6	62	16	✓		09
10	844								.4	48	18	✓		10
11	845								.6	30	8	✓		11
12	846								.6	68	16	✓		12
13	847								.6	56	16	✓		13
14	848								.6	64	16	✓		14
15	849								1.2	96	26	✓		15
16	850								1.0	124	30	✓		16
17	851								1.0	104	28	✓		17
18	852								1.2	154	32	✓		18
19	853								.6	72	20	✓		19
20	854								.6	84	24	✓		20
21	855								.4	26	12	✓		21
22	856								.8	76	24	✓		22
23	857								.8	108	32	✓		23
24	858								.6	108	30	✓		24
25	859								.6	96	24	✓		25
26	860								.6	82	20	✓		26
27	861								.6	84	20	✓		27
28	862								.6	80	24	✓		28
29	863								.8	108	24	✓		29
30	864								.6	96	20	✓		30
31	865								.4	32	8	✓		31
32	866								.6	48	12	✓		32
33	867								.6	50	12	✓		33
34	868								.6	32	12	✓		34
35	869								.8	100	18	✓		35
36	870								.6	72	28	✓		36
37	871								.6	96	24	✓		37
38	872								.4	40	12	✓		38
39	78FWS873								.6	80	20	✓		39
40	STD								8.4	360	>400			40

Certified by C. Rossbach

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8201

TO: Amax Minerals Exploration, 535 Thurlow St. Van B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED Nov 20/78

No.	Sample	pH	Mo	Cu	Pb	Co	Mn	Fe						No.
01	78 FWS814		2	72	130	24	420	2.0						01
02	829		2	86	118	48	260	2.8						02
03	1069		12	92	58	30	300	4.5						03
04	1329		4	30	34	18	320	2.5						04
05	1330		2	32	30	16	180	2.4						05
06	1332		2	46	42	40	700	4.1						06
07	1369		2	16	38	38	100	2.9						07
08	1372		2	6	46	14	100	1.9						08
09	1373		1	84	72	24	220	2.3						09
10	1374		1	40	50	22	160	3.5						10
11	1395		4	32	118	62	340	3.7						11
12	1396		2	60	90	82	320	2.4						12
13	1419		1	40	62	36	220	3.1						13
14	1435		4	40	58	26	1100	3.5						14
15	1437		2	40	66	26	440	3.8						15
16	1452		5	18	430	66	1140	4.2						16
17	1454		2	56	62	32	500	2.7						17
18														
19														19
20														20

FISH

AMAX

SEP 20 1978

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BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

(1)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8134

TO: Amax Minerals Exploration
535 Thurlow St. Van. B.C.

INVOICE NO.

PROJECT 791

DATE ANALYSED SEPT 178

No.	Sample	pH	Mo	Cu				Ag	Zn	Pb				No.
01	78 FX0135							1.2	54	48	✓			01
02	136							1.0	130	38	✓			02
03	137							.8	160	32	✓			03
04	138							.8	18	34	✓			04
05	L139							.4	72	20				05
06														06
07														07
08														
09														09
10														10
11														11
12														12
13														13
14														14

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AREA CODE: 604

(24)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Minerals Exploration
535 Thurlow St Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	TB FKT 119								.4	100	20	✓		01
02	120								.6	124	28	✓		02
03	121								.6	148	28	✓		03
04	122								.6	84	40	✓		04
05	123								.6	88	24	✓		05
06	124								.4	60	12	✓		06
07	125								.4	110	20	✓		07
08	126								.4	108	16	✓		08
09	127								.2	10	12	✓		09
10	128								.2	50	24	✓		10
11	129								.4	72	24	✓		11
12	130A								.4	40	16			12
13	130B								1.0	64	28			13
14	130C								1.0	84	30			14
15	130D								.8	288	36			15
16	131								.8	96	36			
17	L131								.4	88	16	✓		17
18	T132								.2	88	14	✓		18
19	133								.6	106	20	✓		19
20	134								.4	100	64	✓		20
21	135								.4	70	36	✓		21
22														22
23														23

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BURNABY, B. C.
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TELEPHONE: 299-6910
AREA CODE: 604

(4)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8201

TO: AMAX MINERALS EXPLORATION
601-535 THURLOW ST. VANC.

INVOICE NO.

PROJECT 791

DATE ANALYSED NOV. 20/78

No.	Sample	pH	Mo	Cu	Ni	Co	Mn	% Fe						No.
01	78 FXT 101		30	220	90	54	60	>10.0	GOSSAN	SAMPLE	(VEIN?)			01
02	109		28	248	130	52	180	>10.0	GOSSANOUS	FRAGMENT	GOUGE			02
03	L112		6	40	464	10	160	1.7						03
04	T114		22	32	48	46	460	1.1						04
05														05
06														06
07														07
08														08

ORIGINAL

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

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BURNABY, B. C.
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AREA CODE: 604

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8125

TO: Amax Minerals Exploration
535 Thurlow St Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78 FGT 145								.6	48	20	✓		01
02	L 146								.8	146	24	✓		02
03	147								.6	132	24	✓		03
04	T148								.6	84	28	✓		04
05	149								.6	76	20	✓		05
06	150								.8	64	36	✓		06
07	151								.6	90	24			07
08	(152)								.6	112	32	✓		08
09	(154)								.4	90	16	✓		09
10	155								.4	76	20			10
11	156								.6	76	20	✓		11
12	L 157								.4	180	12	✓		12
13	T158								.6	48	24	✓		13
14	159								.6	92	20	—		14
15	(160)								.8	88	32	✓		15
16	161								.6	84	26	✓		16
17	162								.4	20	16	✓		17
18	163								.6	12	16	✓		18
19	164								.6	36	12	✓		19
20														20
21														21
22														22

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CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8111

TO: Amax Minerals Exploration
~~535~~ Thurlow Vancouver BC

INVOICE NO.

PROJECT 791

DATE ANALYSED Aug 21/78

No.	Sample	pH	Mo	Cu					Ag	Zn	Pb			No.
01	78 FGT 143		42						.4	40	20	—		01
02	144		2						1.2	140	16			02
03	144A		18						.6	44	18			03
04														04
05														05
06														06
07														07
08														08
09														09
10														10
11														11

Procedures for Collection and Processing of Geochemical Samples

Analytical Methods for Ag, Mo, Cu, Pb, Zn, Fe, Mn, Ni, Co and W in sediments and soils; Mo, Cu, Zn, Ni and SO_4^{--} in waters.

Amax Exploration, Inc.
Vancouver Office.

September 1970

SAMPLE COLLECTION

Soils

B horizon material is sampled and thus organic rich topsoil and leached upper subsoil are avoided. Occasionally organic rich samples have to be taken in swampy depressions.

Samples are taken by hand from a small excavation made with a cast iron mattock. Approximately 200 gms of finer grained material is taken and placed in a numbered, high wet-strength, Kraft paper bag. The bags are closed by folding and do not have metal tabs.

Observations as to the nature of the sample and the environment of the sample site are made in the field.

Drainage Sediments

Active sediments are taken by hand from tributary drainages which are generally of five square miles catchment or less. Composite samples are taken of the finest material available from as near as possible to the centre of the drainage channel thus avoiding collapsed banks. More than one sample is taken if marked mineralogical or textural segregation of the sediments is evident.

Some 200 gm of finer material is collected unless the sediment is unusually coarse in which case the weight is increased to 1 kg. Samples are placed in the same type of Kraft paper bag as are employed in soil sampling. Water samples are taken at all appropriate sites. Approximately 100 mls are sampled and placed in a clean, screw sealed, polythene bottle. Observations are made at each site regarding the environment and nature of the sample.

Rock Chips

Composite rock chip samples generally consist of some ten small fragments broken from unweathered outcrop with a steel hammer. Each fragment weighs some 50 gms. Samples are placed in strong polythene bags and sealed with non-contaminating wire tabs. Samples are restricted to a single rock type and obvious mineralization is avoided.

Soil, sediment and rock samples are packed securely in cardboard boxes or canvas sacks and dispatched by road or air.

Rossbacher Laboratory
GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
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April 30, 1974

SUMMARY OF SOME ANALYTICAL TECHNIQUES CURRENTLY IN USE AT ROSSBACHER LABORATORY

A ANALYTICAL TECHNIQUES FOR GEOCHEMICAL SAMPLES

SAMPLE PREPARATION

Packages of samples are opened as soon as they arrive at the laboratory and the bags placed in numerical sequence in an electrically heated sample drier (maximum temperature 70°C).

After drying soil and sediment samples they are lightly pounded with a wooden block to break up aggregates of fine particles and are then passed through a 35 mesh stainless steel sieve. The coarse material is discarded and the minus 35 mesh fraction replaced in the original bag providing that this is undamaged and not excessively dirty.

Rock samples are exposed to the air until the outside surfaces are dry; only if abnormally wet are rocks placed in the sample drier. Rock samples are processed in such manner that a fully representative 1/2 g. sample can be obtained for analysis. The entire amount of each sample is passed through a jaw crusher and thus reduced to fragments of 2 mm. size or less. A minimum of 1 kg. is then passed through a pulverizer with plates set such that 95% of the product will pass through a 100 mesh

screen. Where samples are appreciably heavier than 2 kg the material is split after jaw crushing by means of a Jones splitter. After pulverizing the sample is mixed by rolling on paper and is then placed in a Kraft paper bag.

SAMPLE DIGESTION

Digestion tubes (100 x 16 mm) are marked at the 5 ml level with a diamond pencil. Tubes are cleaned with hot water and concentrated HCl. 0.5 g samples are weighed accurately, using a Fisher Dial-O-Gram balance, and placed in the appropriate tubes.

To each of the samples thus prepared are added 2 ml of an acid mixture comprising 15% nitric and 85% perchloric acids. Racks of tubes are then placed on an electrical hot plate, brought to a gentle boil ($\frac{1}{2}$ hour) and digested for $4\frac{1}{2}$ hours. Samples unusually rich in organic material are first burned in a porcelain crucible heated by a bunsen burner before the acid mixture is added. Digestion is performed in a stainless steel fume hood.

After digestion tubes are removed from the hot plate and the volume is brought up to 5 ml with deionized water. The tubes are shaken to mix the solution and then centrifuged for one minute. The resulting clear upper layer is used for Cu, Mo, Pb, Zn, Ag, Fe, Mn, Ni and Co determination by a Perkin-Elmer 290B atomic absorption spectrophotometer. Analytical procedures are given on the following pages.

ANALYTICAL PROCEDURES

Silver

1. Scope - This procedure covers a range of silver in the sample from less than .5 to 1000 ppm

2. Summary of Method - The sample is treated with nitric and perchloric acid mixture to oxidize organics and sulphides. The silver then is present as perchlorate in aqueous solution. The concentration is determined by atomic absorption spectrophotometer

3. Interferences - Silver below 1 gamma/ml is not very stable in solution. Maintaining the solution in 20% perchloric prevents silver being absorbed on the glass container. Determination must be completed on the same day as the digestion.

   Samples high in dissolved solids, especially calcium, cause high background absorbance. This background absorbance must be corrected using an adjacent Ag line.

Silver AA Settings P.E. 290

Lamp - Ag

Current 4 ma position 3

Slit 7 A

Wavelength 3281A Dial 287.4

Fuel - acetylene - flow - 14

Oxidant - air - flow - 14

Burner - techtron AB_51 in line

Maximum Conc. 3 to 4x

Calibration

1. Set 1 gamma/ml to read 40 equivalent to 20 gamma/gm

   Factor $\frac{1}{2}$ x meter reading

   Check standards

   4, 10, 20, 40 ppm Ag in sample

2. Set 15 gamma/ml to 100 equivalent to 100 ppm

   Check standards

   40, 100 ppm

   Factor directly in ppm Ag

3. Rotate burner to maximum angle

   Set 10.0 gamma/ml Ag to read 100

   Check standards

   100,200,400,1000 ppm Ag

   Factor 10x scale reading

4. Samples higher than 1000 ppm should be re-analyzed by assay procedure

5. Background correction for sample reading between 1 to 5 ppm

   Calibrate AA in step 1

   Dial wavelength to 300 (peak)

   Read the samples again

   Subtract the background reading from the first reading

Standards

1. 1000 gamma/ml Ag - 0.720 gm Ag_2SO_4 dissolved in 20 mls $Hx10_3$ and dilute to 500 mls

2. 100 gamma/ml Ag - 10 mls of above + 20 mls $HClO_4$, dilute to 100 mls

3. Recovery spiked standard

5 gamma/ml Ag - 5 mls 100 gamma/ml dilute to 100 mls with "mixed" acid

Working AA Standards

Pipette .2, .5, 1, 2, 5, 10 mls of 100 gamma/ml and 2, 5 mls 1.000 gamma/ml dilute to 100 mls with 20% $HClO_4$. This equivalent to 4, 10, 20, 40, 100, 200, 400, and 1000 ppm Ag in the sample .50 gm diluted to 10 mls.

Recovery Standard

Pipette 2 mls of 5 gamma/ml Ag in mix acids into a sample and carry through the digestion. This should give a reading of 20 ppm Ag + original sample content.

Follow the general geochemical procedure for sample preparation and digestion.

For low assay Ag, the same procedure is used. Ag is then calculated in oz/ton.

1 ppm = .0292 oz/ton

conversion factor

oz/ton = .0292 x ppm Ag

Zn Geochemical AA Setting

Lamp Zn

Current 8 #3 Slit 20A

Wave length 2138 Dial 84.9

Fuel - Acetylene Flow 14

Oxidant - Air Flow 14

Burner - P.E. short path 90°

Range

0 - 20 gamma/ml Factor 4x - 0 to 400 ppm

0 - 50 gamma/ml Factor 10x -0 to 1000 ppm

For Waters - Burner AB- 51 in line 1 gamma/ml read 100 to give 0 to 1000 ppb

High Zn Burner Boling in line. Wavelength 3075. Dial 250 Slit 7A

Fuel 14 Air 14.5

0 to 1000 gamma/ml read 0 to 20 Factor 400 x

Pure Standard 10,000 gamma/ml

1 gm Zn dissolved, H_2O, HCl, HNO_3, $HClO_4$, fumed to $HClO_4$ - make up to 100 mls H_2O

1000, 100 gamma/ml and 100 ml by dilution in 20 % $HClO_4$

0 to 200 gamma/ml Zn use combined Cu, Ni, Co, Pb, Zn standards

Pipette

1, 2, 3, 5, 8, 10 mls of 10,000 gamma/ml - dilute to 100 mls with 20% $HClO_4$ to give

100, 200, 300, 500, 800, 1000 gamma/ml Zn for high standards

Co Geochemical AA Setting

Lamp - 5 multi element

Current 10 #4 Slit 2A

Wavelength 2407 Dial 133.1

Fuel - Acetylene Flow 14

Oxidant - Air Flow 14

Burner - AB 51 in line

Range

0 - 10 gamma/ml read 100 Factor 2 x reading to 200 ppm

0 - 20 gamma ml read 100 Factor 4 x reading to 400 ppm

Burner at maximum angle

0 - 100 gamma/ml read 100 Factor 20 x reading to 2000 ppm

0 - 200 gamma/ml read 100 Factor 40 x reading to 4000 ppm

Standards - 1000 gamma/ml

1.000 gm cobalt metal dissolved in HCl, HNO, and fumed into $HClO_4$, dilute to 1 liter

Pipette

1, 2, 10, 20 mls into 100 ml vol flasks diluted to mark with 20% $HClO_4$

This gives

10, 20, 100, 200 gamma/ml Co

Mixed - combination standards of Cu, Ni, Co, Pb, Zn

of

1, 2, 5, 10, 20, 30, 50, 80, 100, 150, 200 gamma/ml are used for calibration

Mn Geochemical AA Setting

Lamp Multi element Ca, Ni, Co, Mn Cr

Current 10 #4 Slit 7A

Wave length 4030.8 Dial 425.2

Fuel - Acetylene Flow 14.0

Oxidant - Air Flow 14.0

Burner - P.E. short path (or AB 50)

Range

0 - 100 gamma/ml Factor 20x - 0 to 2000 ppm

0 - 200 gamma/ml Factor 40x - 0 to 4000 ppm

Burner 90°

0 - 1000 gamma/ml Factor 200x - 0 to 20,000 ppm

0 - 2000 gamma/ml Factor 400x - 0 to 40,000 ppm

EDTA Extraction - use AB 51 in line

0 - 20 gamma/ml Factor 4x - 0 to 400 ppm

Standards

Fisher 10,000 gamma/ml (ml)

10x Dilution 1000 gamma/ml

Pippette

.5, 1, 2, 3, 5, 8, 10, ml of 1000 gamma/ml

2, 3, 5, 8, 10, 15, 20 ml of 10,000 gamma/ml dilute to 100 mls with 20% $HClO_4$. This gives

5, 10, 20, 30, 50, 80, 100, 200, 300, 500, 800, 1000, 1500, 2000 gamma/ml

Mo Geochemical AA Setting

Lamp ASL H/C Mo

Current 5 #5 Slit 7A

Wavelength 3133 Dial 260.2

Fuel - Acetylene Flow 12.0 to give 1" red feather

Oxidant - Nitrous oxide Flow 14.0

Burner - AB 50 in line

Caution read the operation using N_2O and acetylene flame at end of general AA procedure

Range

0 - 10 gamma/ml Factor 2x - 0 to 200 ppm

Rotate burner to max. angle

0 - 50 gamma/ml Factor 10 x 0 to 1000 ppm

0 - 100 gamma/ml Factor 20 x 0 to 2000 ppm

Standards 1000 gamma/ml

Dissolve .750 gms MoO_3 (acid molybdic) with 20 mls H_2O, 6 lumps NaCH, when all dissolved, add 20 mls HCl, dilute to 500 mls

100 gamma/ml - 10 x dilution

Pipette

.2, .5, 1, 2, 3, 5, 8, 10 mls of 100 gamma/ml

2, 3, 5, 8, 10 mls of 1000 gamma/ml add 5 mls 10% $AlCl_3$ and dilute to 100 mls with 20% $HClO_4$

This gives

.2, .5, 1, 2, 3, 5, 8, 10, 20, 30, 50, 80, 100 gamma/ml Mo

Fe Geochemical AA Setting

Lamp - Fe

- Do not use multi element Fe

Current 10 #4 Slit 2A

Wavelength 3440.6 Dial 317.5

Fuel - Acetylene Flow 14.0

Oxidant - Air Flow 14.0

Burner - PE Short Path 90°

Range

0 - 5000 gamma/ml 0.1 x % - 0 to 10.0%

0 - 10,000 gamma/ml 0.2 x % - 0 to 20.0%

Higher Fe - 10 x dilution

Standards 10,000 gamma/ml

Weigh 5.000 gms iron wires, into beaker, add H_2O, HCl, HNO_3, $HClO_4$, heat to $HClO_4$ fumes. Add $HClO_4$ to 100 mls + 100 mls H_2O, warm, dilute to 500 mls

Pipette

1, 5, 10, 20, 30, 50, 80 mls 10,000 gamma/ml dilute to 100 mls with 20% $HClO_4$ to give

100, 500, 1000, 2000, 3000, 5000, 8000 gamma/ml to be equivalent to .2, 1.0, 2.0, 4.0, 6.0, 10.0%, 16.0% Fe in geochem sample

Ni Geochemical AA Setting

Lamp P.E. H/C. Ni or multi element Cu, Ni, Co, Mn, Cr

Current 10 #4, Slit 2A

Wave length 3415 Dial 312.5

Fule - Acetylene Flow 14.0

Oxidant - Air Flow 14.0

Burner AB 51 in line

Range

0 - 20 gamma/ml Factor 4x - 0 - 400 ppm

0 - 100 gamma/ml Factor 20x - 0 - 2000 gamma

45° 0 - 200 gamma/ml Factor 40x - 0 - 4000 ppm

0 - 500 gamma/ml Factor 100x - 0 - 10,000 ppm

Ni in waters and very low ranges

Wave length 2320 Dial 118

Range 0 - 5 gamma/ml Factor 1x - 0 - 100 ppm

Standards 10,000 gamma/ml

1.000 gm pure Ni metal dissolved in HCl, HNO_3, $HClO_4$ to perchloric fumes, dilute to 100 ml H_2O

1000 gamma/ml and 100 gamma/ml Successive 10x dilutions in 20% HClO

1, 2, 5, 8, 10 mls of 100 gamma/ml

2, 5, 8, 10 mls 1000 gamma/ml

2, 5, 8, 10 mls 10,000 gamma/ml - dilute to 100 mls in 20% HClO4. This gives

1, 2, 5, 8, 10, 20, 50, 80, 100, 200, 500, 800, 1000 gamma/ml N

Combined Standards - Cu, Ni, Co, Pb, Zn is used as a working standard

Cu Geochemical AA Setting

Lamp Single Cu or

5 multi element

Current 10 for multi element #4 Slit 7A

4 for single #3 Slit 7A

Wavelength 3247 Dial 280

Burner Techtron AB 51 (For Cu in natural waters)

P.E. Short Path (For geochem)

Fuel Acetylene Flow 14

Oxidant Air Flow 14

Range

0 - 5 gamma/ml Factor 1x to 100 ppm (for low Cu)

0 - 20 gamma/ml Factor 4x to 400 ppm

Burner 90°

0 - 200 gamma/ml Factor 40x to 4000 ppm

Wavelength 2492 Dial 147

Burner in line

Range

0 - 1000 gamma/ml Factor 200x to 20,000 ppm

0 - 2000 gamma/ml Factor 400x to 40,000 ppm

Higher range than 40,000 ppm requires 10x dilution

Standards

10,000 gamma/ml

1.000 gm metal powder, H_2O, HCl, HNO_3 until dissolved, add $HClO_4$, fume dilute to 100 mls

1000 gamma/ml 10x dilution above in 20% $HClO_4$

2000 gamma/ml 20 mls 10,000 gamma/ml - dilute to 100 mls in 20% $HClO_4$

100 gamma/ml 10x dilution 1000 gamma/ml dilute to 100 mls in 20% $HClO_4$

200 gamma/ml 10x dilution 2000 ganma/ml dilute to 100 mls in 20% $HClO_4$

Pipette

1, 2, 3, 5, 8, 10 mls 100 gamma/ml - dilute to 100 mls with 20% $HClO_4$ to give 1, 2, 3, 5, 8, 10 gamma/ml

Combined standards Cu, Ni, Co, Pb, Zn

1, 2, 5, 10, 20, 30, 50, 80, 100, 150, 200 gamma/ml

Pb Geochemical AA Setting

Lamp ASL H/c Pb

Current 5 ma Slit 7A

Wave length 2833 Dial 208

Fuel - acetylene Flow 14

Oxidant - air Flow 14

Burner AB 51 in line

Range

0 - 20 gamma/ml to read 0 to 80. Factor 5x 0 to 500 ppm

0 - 200 gamma/ml to read 0 to 80. Factor 50x 0 to 5000 ppm

Standards - 10,000 gamma/ml

1.000 pure metal, dissolved in HNO_3, fumed to $HClO_4$ make up to 100 mls in 20% $HClO_4$

1000 gamma/ml and 100 gamma/ml Successive 10x dilutions in 20% $HClO_4$

Pipette

1, 2, 5, 8, 10 mls 100 gamma/ml

2, 5, 8, 10, 20 mls 1000 gamma/ml dilute to 100 mls in 20% $HClO_4$ this gives

1, 2, 5, 8, 10, 20, 50, 80, 100, 200 gamma/ml

Combined Standards Cu, Ni, Co, Pb, Zn, are used as working standards

W in Soils and Silts

Reagents and apparatus

Test tubes - pyrex disposable

Test tubes - screw cap

Bunsen Burner

Flux - 5 parts Na_2CO_3

4 parts NaCl

1 part KNO_3 pulverized to -80 mesh

7% $SnCl_2$ in 70% HCl

20% KSCN in H_2O

Extractant - 1 part tri-n-butyl phosphate

9 parts carbon tetrachloride

Standards

1000 gamma/ml W

.18 gms Na_2WO_4 $2H_2O$ dissolved in H_2O, make up to 100 mls

100 gamma/ml, 10 gamma/ml by dilution

Standardization

Pipette .5, 1, 2, 3, 5, 8, 10 ml of 10 gamma/ml

and 1.5, 2 mls of 100 gamma/ml - dilute to 10 mls

continue from step #4

Artificial colors - Nabob pure Lemon Extract, dilute with 1:1 ethanol and water to match. Tightly seal these for permanent standards

Procedure

1. Weigh 1.0 gram sample, add 2 gm flux, mix

2. Sinter in rotary for 2 to 3 minutes (Flux dull read for one minute)
3. Cool, add 10 mls H_2O, heat in sand bath to boiling, cool, let sit overnight
4. Stir, crush, and mix. Let settle
5. Take 2 ml aliquot into screw cap test tube
6. Add 7 mls $SnCl_2$, heat in hot water bath for 5 minutes (80°C)
7. Cool to less than 15°C
8. Add 1 ml 20% KSCN, mix (if lemmon yellow; compare color standard 10x)
9. Add $\frac{1}{2}$ ml extractant, cap, shake vigorously 1 minute
10. Compare color

Molybdenum in Water Samples

1. Transfer 50 mls to 125 separatory funnel
2. Add 5 ml .2% ferric chloride in conc HCl
3. Add 5 mls of mixed KSCN and $SnCl_2$
4. Add 1.2 mls isopropyl ether, shake for 1 minute, and allow phases to separate
5. Drain off water
6. Compare the color of extractant

Standardization

Pipette 0, .2, .5, 1, 2, 3, 4, 5, mls of 1 gamma/ml and 1, 1.5, 2, mls of 10 gamma/ml dilute to 50 mls with demineralized H_2O, and continue step #2.

This equivalent to -

1, 4, 10, 20, 40, 60, 80, 100, 200, 300, 400 ppb Mo

Artificial color - Nabob orange extract dilute with 1:1 H_2O to methanol to match. Seal tightly

$SnCl_2$ - 15% in 15% HCl

300 gm $SnCl_2 \cdot 2H_2O$ + 300 mls HCl, until $SnCl_2$ dissolved dilute to 2 liters

KSCN - 5% in H_2O

Mixed $SnCl_2$ - KSCN

3 parts $SnCl_2$ to 2 parts KSCN

Water Samples Run for AA

1. Cu - 2 gamma/ml reads 80 scale therefore 1 unit = 25 ppb

2. Zn - 1 gamma/ml reads full scale therefore 1 unit = 10 ppb

3. Ni - 2.5 gamma/ml reads 50 scale therefore 1 unit = 50 ppb

Burner: long slot techtron burner in line

Sulphate in Natural Waters

1. Pipette 0.5 ml sulphate reagent mix into a colorimetric tube
2. Add 5 ml water sample and mix
3. Read at 343 mμ against a demineralized water blank
4. Read again at 400mμ and subtract from sulphate reading
5. Calculate ppm sulphate from the graph

Reagent

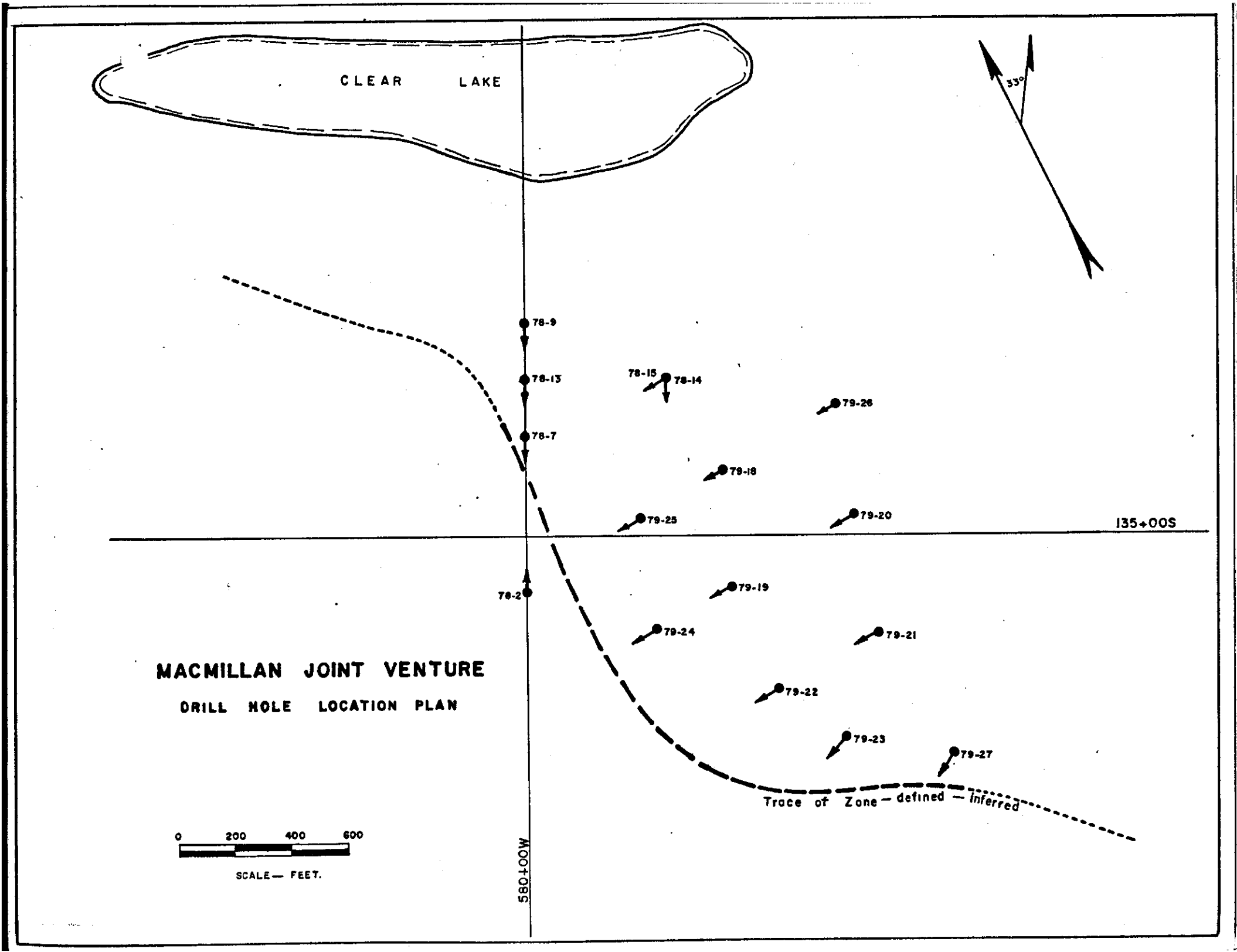
Dissolve 54 grams red mercuric oxide (J.T. Baker 2620- Can Lab) in 185 ml 70% perchloric acid and 20 ml H_2O, shake for one hour. Add 46.3 grams ferric perchlorate [$Fe(ClO_4)_3 \cdot 6H_2O$] (GFS 39) and 47 grams aluminum perchlorate [$Al(ClO_4)_3 \cdot 8H_2O$] (GFS 2) Add 400 ml water to dissolve, let settle overnight, decant into bottle and make to 1 liter

pH MEASUREMENTS

Soil and drainage sediment samples are dampened with water in a glass beaker to a pasty consistency. Demineralized water is used for this purpose as it has a low buffer capacity and thus does not influence the pH of the sample. Measurement is made with a Fisher Acument pH meter. Electrodes are stored in buffer overnight. A 30 minute warm up time is allowed for the instrument each morning. A 10 ml aliquot is taken from water samples for pH measurement.

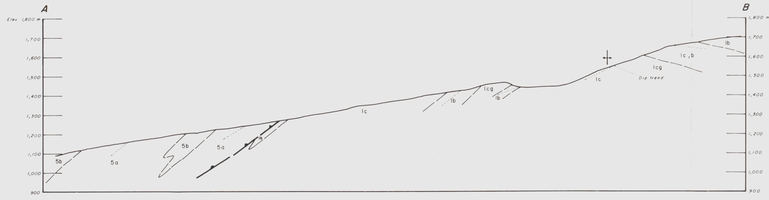
ROSSBACHER LABORATORY

P. Rossbacher



MACMILLAN JOINT VENTURE

DRILL HOLE LOCATION PLAN



FISHOOK No.2 GRID

FISHOOK No.1 GRID

FISHOOK CREEK

PELLY RIVER

OLD FISHOOK GRID

LEGEND

CRETACEOUS

- 7 — *Quartz monzonite, porphyritic quartz monzonite, granodiorite.*

ORDOVICIAN ?

- 5a — *Interbedded calc-silicate and quartz sericite phyllite.*
- 5b — *Massive metabasite includes both flows and intrusions occasionally weakly foliated.*

MIDDLE CAMBRIAN TO LOWER ORDOVICIAN

- 4a — *Chloritic phyllite, calcareous chlorite phyllite, phyllitic basic tuffs, interbedded chlorite and carbonate bands, minor quartz-sericite schist.*
- 4c — *Dark grey to black siliceous and/or argillaceous bands, often graphitic and calcareous, minor chlorite associated with grey marble.*
- 4e — *Calcareous quartz-sericite schist interbedded with chlorite phyllite minor graphite.*
- 4f — *Massive metabasite, probably includes both flows and intrusions, occasionally weakly foliated.*
- 4g — *Quartz-sericite schist, sericite-quartz schist very similar to 1c.*

LOWER CAMBRIAN

- 1b — *Quartz-graphite-sericite schist, recrystalized graphitic chert, may grade along strike into graphitic quartz-sericite schist of 1cg.*
- 1c — *Light to medium grey quartz-sericite and sericite-quartz schist and phyllite, often alternating quartz rich and sericite rich laminae.*
- 1cg — *Quartz-sericite-graphite±andalusite phyllite and schist.*
- 1e — *Rusty weathering, purplish brown quartz-biotite-sericite±andalusite schist, interbanded quartz-biotite-sericite schist and quartz-sericite schist.*
- 1f — *Chloritic phyllite, chlorite-sericite-quartz phyllite.*
- 1g — *Fine grained quartz-biotite-sericite phyllite, calcareous, often a fine grained phyllite with a purplish cast.*
- 1h — *Medium to coarse grained quartz-sericite-biotite±andalusite schist.*

SYMBOLS

- *Outcrop, suboutcrop and/or boulder.*
- *Felsenmeer, boulder patch.*
- *Geological contact.*
- *Fault.*
- *Slickensides showing plunge.*
- *Thrust fault.*
- *Cleavage attitude (vertical).*
- *Compositional banding attitude (inclined).*
- *Lineation produced by intersection of compositional banding and crenulation foliation showing plunge.*
- *Jointing attitude (inclined, vertical).*
- *Axis of small isoclinal folds between crenulation foliation planes showing plunge.*
- *Crenulation foliation plane (dip unknown, inclined).*
- *Wrinkle crenulation on foliation plane showing plunge.*
- *Axis of open folds of the foliation plane showing plunge.*
- *Major fold axis (anticline, syncline).*
- *Grid picket line.*
- *Property boundary.*
- *Topographic contour (contour interval 20 metres).*
- *Stream.*
- *Swamp, (swamp boundary.*

AMAX POTASH LIMITED

FISHOOK CREEK PROPERTY
AM, PM AND BM CLAIMS
WHITEHORSE MINING DISTRICT — YUKON TERRITORY

GEOLOGICAL MAP

SCALE 400 0 400 METRES 1,000 0 1,000 FEET
1 : 10,000

To accompany 1978 Geological and Geochemical Assessment Report by R.G.Kidlark and A.C.Hitchins.

Vancouver — Alta

N.T.S. Ref. 105 L 8 and 9
FIG. 3

S Y M B O L S

- Soil
- Silt
- Rock chip

} Sample site, sample number, ppm. Pb, Zn, Ag. (See APPENDIX III for analytical values of other elements).

- Grid picket line.
- Property boundary.
- Topographic contour (contour interval 20 metres).
- Stream.
- Swamp, swamp boundary.

Dec 20 1978

AMAX POTASH LIMITED

FISHOOK CREEK PROPERTY
AM, PM AND BM CLAIMS
WHITEHORSE MINING DISTRICT — YUKON TERRITORY

GEOCHEMICAL MAP

SCALE 400 0 400 METRES
1,000 0 1,000 FEET
1 : 10,000

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N.T.S. Ref 105 L 8 and 9

FIG. 4