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ASSESSMENT REPORT

GEOLOGICAL, GEOCHEMICAL &
TRENCHING REPORT

on the LOGAN #1-88 MINERAL CLAIMS

Watson Lake Mining District, Y.T.
NTS: 105-B-7/8/9/10
Latitude 60°30'N: Longitude 130°27'W
Date Submitted: JANUARY 1985

091601

A S S E S S M E N T R E P O R T

GEOLOGICAL, GEOCHEMICALS & TRENCHING REPORT

ON THE

LOGAN #1-88 MINERAL CLAIMS

WATSON LAKE MINING DISTRICT, YUKON TERRITORY

N.T.S. 105-B-7/8/9/10

Latitude 60°30'N: Longitude 130°27'W

OWNER: REGIONAL RESOURCES LTD.
under option to
Getty Canadian Metals, Limited

OPERATOR: REGIONAL RESOURCES LTD.

CONSULTANTS: CORDILLERAN ENGINEERING

091601

By

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Date Submitted: January 1985

Field Period: June 1 to June 30, 1984

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 33,200.00

D D Emond

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

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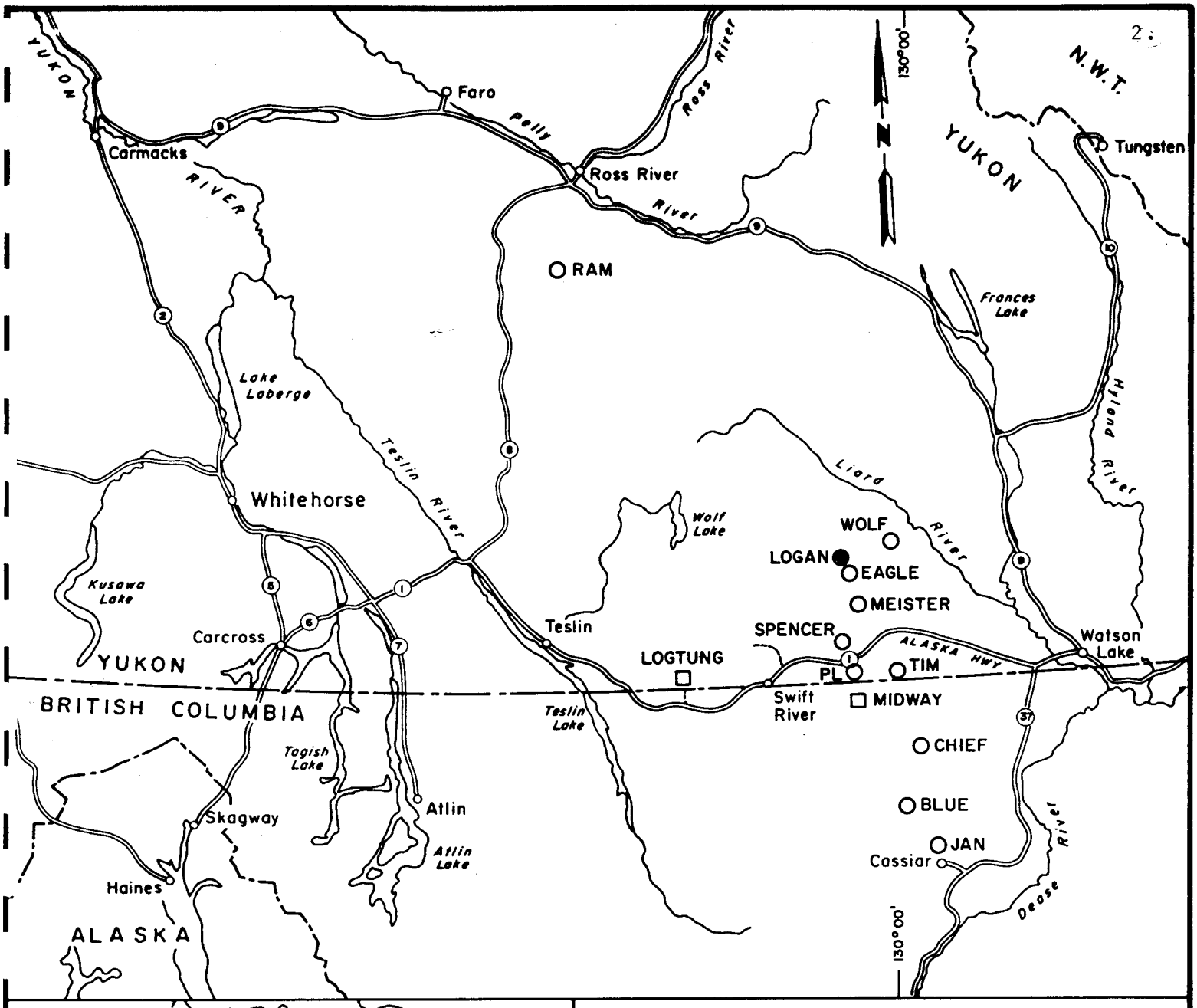
CHAPTER 1.0

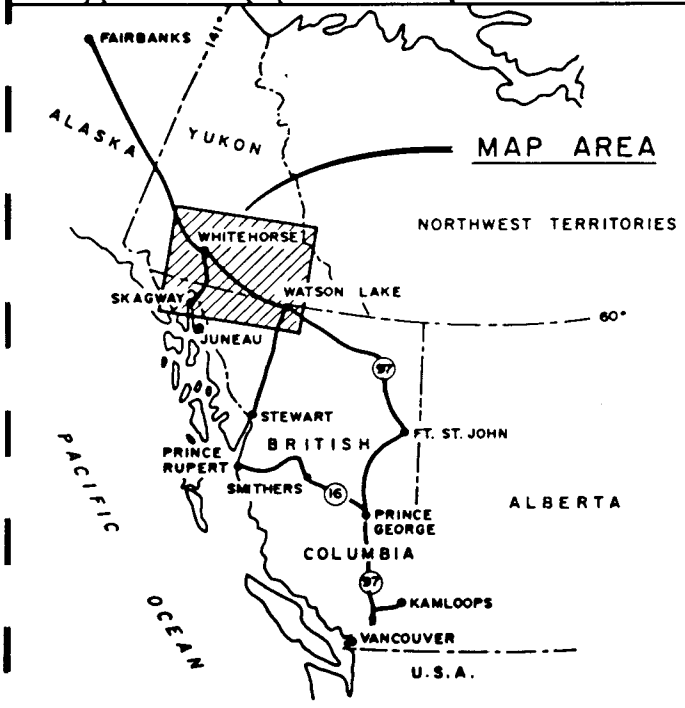
SUMMARY AND CONCLUSIONS

The Logan property consists of 94 contiguous mineral claims in the Watson Lake Mining District (N.T.S. 105-B-7/8/9/10) and is located 108 kilometers northwest of Watson Lake, Yukon Territory (Figure 1). Staking of the Logan claims was initiated in July 1979 and completed by July 1984. Property acquisition and subsequent work have been conducted by Cordilleran Engineering on behalf of Regional Resources Ltd. The Logan property is currently under option to Getty Canadian Metals, Limited.

The Logan claims cover mixed forest, subalpine and alpine terrain with fair to moderate exposure of rock units. The property is situated 38 kilometers north of the Alaska Highway; present access is by helicopter.

During the 1984 field season, work included grid preparation, soil geochemistry, geophysical surveys, hammer prospecting, minor hand trenching and geological mapping. Previous work was conducted on the property in 1979, 1980 and 1982 and included stream and soil geochemistry, test geophysical surveys, hand trenching, hammer prospecting and geological mapping.





Scale : 1" = 400 Miles

REGIONAL RESOURCES LTD.

PROPERTY LOCATION MAP

20 0 10 20 30 40

Scale in miles

BY

CORDILLERAN ENGINEERING
1980 – 1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

NOVEMBER 1984

FIGURE 1

Very strong, Cu-Pb-Zn-Ag-Sn geochemical soil and coincident IP geophysical anomalies have been located over an area of widespread, multi-element mineralized vein, greisen, and stockwork-hosted occurrences. This 1200 metre long by 150 metre wide area is known as the MAIN SHOWING. Mineralization includes banded massive sulfides, predominantly sphalerite with lesser chalcopyrite, pyrite and arsenopyrite in a 1.78 metre wide vein structure, commonly referred to as the MAIN VEIN. Previously reported assay results from sampling of the Main Vein include values of 7.22% Zn, 1.86 oz/ton Ag and 0.73% Cu from a continuous chip sample and 35.88% Zn, 10.87 oz/ton Ag and 1.42% Cu from a selected grab sample.

Other significant mineralization in the Main Showing area consists of disseminated arsenopyrite-tetrahedrite-pyrite-sphalerite-galena-chalcopyrite and an unidentified tin mineral hosted by quartz veins, stockworks and breccia bodies in highly altered granodiorite or greisen-like rocks. Grab samples of this polymetallic mineralization assayed up to 16.35 oz/ton silver, 1.42% tin, 3.24% zinc, 19.89% arsenic, 0.51% lead and 0.70% copper.

Additional silver-zinc-lead-copper-tin-arsenic mineralization has been located approximately 1100 metres east of the Main Showing by prospecting of a soil geochemical anomaly in a 200 metre long by 60 metre wide area known as the East Showing. Grab samples of tetrahedrite, galena, sphalerite, pyrite and arsenopyrite-bearing disseminated type mineralization assayed up to 23.67 oz/ton silver, 6.2% zinc, 1.93% lead, 1000 ppm tin and >1000 ppm arsenic.

In conclusion, the potential for locating a significant, large tonnage, stockwork or greisen-type polymetallic mineral deposit and/or high grade, vein-type deposit on the Logan property is excellent. Retention of the Logan claims is strongly advised.

CHAPTER 2.0

RECOMMENDATIONS

Retention of the Logan claim group and further exploration is strongly recommended. Future work on the Logan claims should consist of diamond drilling, geophysical surveys and detailed geological mapping.

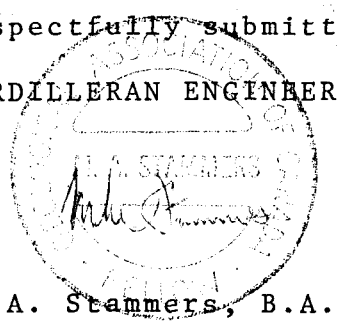
A first priority is to test geochemical, geophysical and mineral targets in the Main Showing area with a minimum of 500 metres of NQ wireline diamond drilling. Initially, diamond drilling should take place from setups on lines 0+00E and 2+00E.

Induced polarization surveys should be completed to the east and west of the present survey area in order to close off the anomaly outlined from 1984 field work. The program should allow for approximately 15.0 kilometres of IP survey.

Finally, detailed mapping in the area of the East Showing is recommended. In addition, mapping and hammer prospecting should be carried out in other areas of anomalous soil geochemistry.

Respectfully submitted

CORDILLERAN ENGINEERING



M. A. Stammers, B.A.
Geologist

MAS/g
January 1985

CHAPTER 3.0

I N T R O D U C T I O N

This report describes a program of geological, geochemical and hand trenching exploration conducted on the Logan 1-88 mineral claims during the period June 1 to June 30, 1984. The Logan group hosts vein, stockwork and breccia type polymetallic mineralization which has the potential to support a large tonnage mining operation. Linecutting and hand trenching on the Logan 1-36 claims and geological and geochemical work on the Logan 37-88 claims has been applied for assessment credit purposes.

3.1 LOCATION AND ACCESS

The Logan property is located 108 kilometres northwest of Watson Lake, Yukon at latitude 60°30'N and longitude 130°27'W (Figure 1). The claims are situated 38 kilometres north of the Alaska Highway and 22 kilometres north of the Meister Lake four-wheel drive road. Field operations were based out of a camp in the central claims area. Present access to the property is by helicopter.

3.2 PHYSIOGRAPHY AND CLIMATE

The claim group covers forest, subalpine and alpine terrain with gentle to steep relief and elevations ranging from 1280 to 1615 metres above sea level. A prominent east-west trending esker bisects the property.

Climate in the Logan claims area is characterized by short, warm summers and long, cold winters. Precipitation is light to moderate year around. The best exploration season lasts from early June to late September.

3.3 EXPLORATION HISTORY

The Logan 1-6 mineral claims were staked in July 1979 to cover a gossan-related, new discovery of zinc-copper-silver-tin-lead mineralization. The Logan 7-36 and the Logan 37-88 claims were added in October 1979 and June 1984 respectively to protect favourable geochemistry and geology. The Logan 89-94 claims were staked in July 1984 to cover new silver-lead-zinc showings and anomalous soil geochemistry.

Work conducted on the Logan claims in 1979 included geological mapping, geochemical soil and stream sediment sampling, hand trenching, trench sampling and test IP and EM geophysical surveys. In 1980, the area southeast of the present claims was explored with soil geochemistry. In 1982, soil sampling was completed over the West Showing in the southwest claims area and hand trenching was carried out in the Main Showing area.

To date, all work has been performed by Cordilleran Engineering on behalf of Regional Resources Ltd.

3.4 1984 EXPLORATION PROGRAM

A geological, geochemical, geophysical, and trenching exploration program was conducted on the Logan 1-88 claims during the 1984 field season.

Grid preparation included 14.2 kilometres of cut line and 84.5 kilometres of flag and compass line.

A total of 1785 soil samples and 50 rock samples were collected from the Logan property. Of this total, 940 soil samples and 17 rock samples were taken from the Logan 37-88 mineral claims.

Geophysical surveys were carried out on the Logan 1-88 claims by Phoenix Geophysics Ltd. of Vancouver, B. C. This work included 8.0 km of proton magnetometer survey, 8.0 km of 100 metre dipole-spread IP survey and 3.15 km of 25 metre dipole-spread IP survey.

Preliminary geological mapping at 1:5000 scale was completed over the entire Logan 1-88 mineral claims.

Hand trenching and sampling was completed on the Logan 3 mineral claim at 2+70E, 1+60N. Four cubic metres of material was removed from a single trench.

3.5 CLAIMS INFORMATION

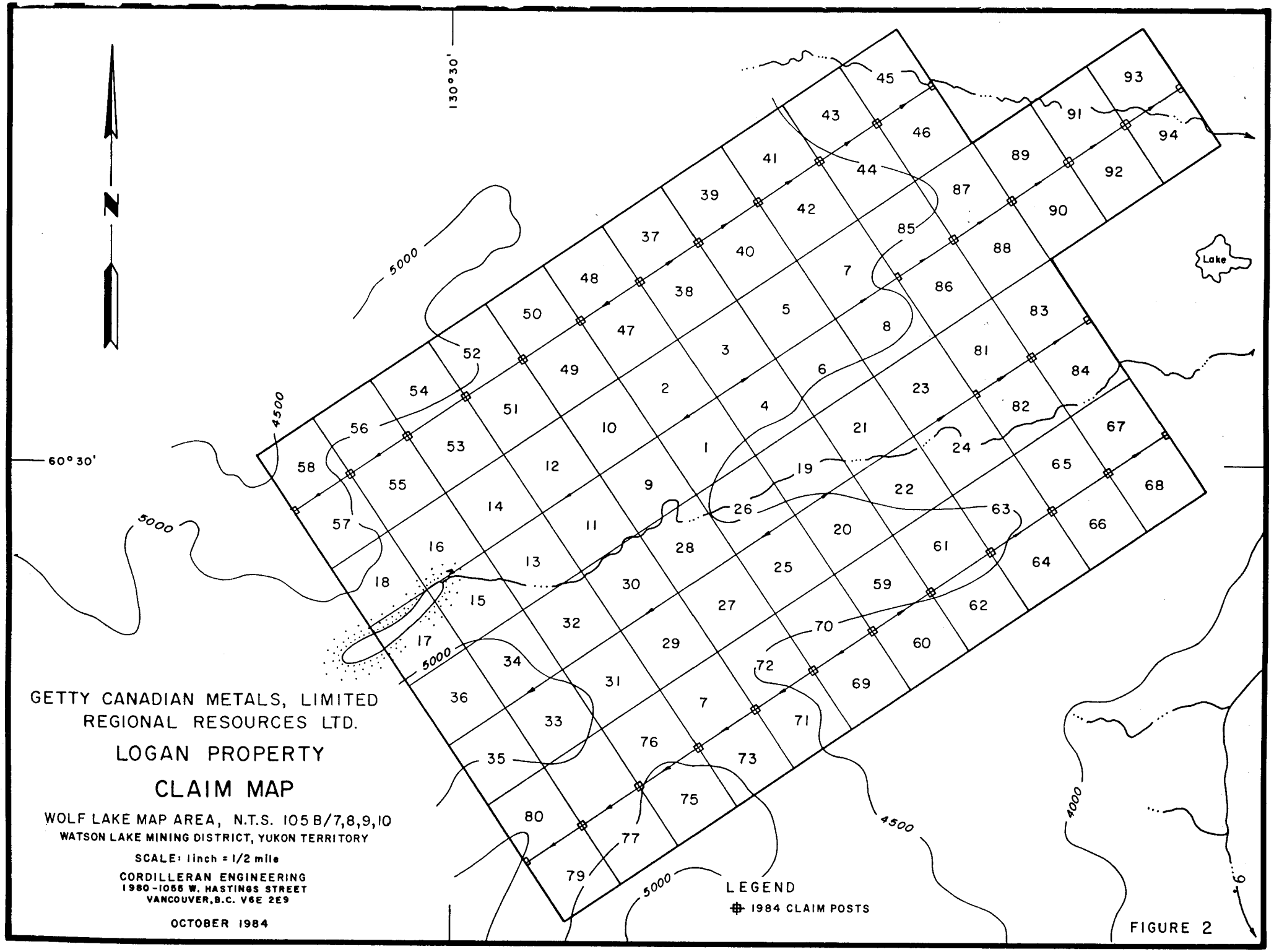
The Logan property consists of 94 contiguous quartz mineral claims located in the Watson Lake Mining District, Yukon Territory (Figure 2). The claims are owned by Regional Resources Ltd. of Vancouver, B. C. and are under option to Getty Canadian Metals, Limited. Table 1 lists claims data.

TABLE 1

CLAIMS DATA

CLAIM NAME	RECORD NUMBERS	EXPIRY DATE(S)
Logan 1-6	YA45047-YA45052	Dec. 31, 1985-1987*
Logan 7-36	YA46254-YA46283	Dec. 31, 1985-1987*
Logan 37-88	YA71027-YA71078	June 8, 1985-1990*
Logan 89-94	YA71360-YA71365	July 26, 1985

* Pending receipt of Certificates of Work (1984 Assessment)


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GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.
LOGAN PROPERTY
CLAIM MAP
WOLF LAKE MAP AREA, N.T.S. 105 B/7,8,9,10
WATSON LAKE MINING DISTRICT, YUKON TERRITORY
SCALE: 1inch = 1/2 mile
CORDILLERAN ENGINEERING
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9
OCTOBER 1984
LEGEND
1984 CLAIM POSTS
FIGURE 2

CHAPTER 4.0

G E O L O G Y

4.1 REGIONAL GEOLOGY

The regional geology is based on mapping in the Wolf Lake map sheet (N.T.S. 105B) by Poole, 1951-1955 and by Roddick and Green 1959, of the Geological Survey of Canada.

The entire claims area has been mapped by the G.S.C. as a single unit comprising biotite schist and quartzite with sills, dykes and irregular bodies of pegmatite. The intrusive rocks on the property are a related phase of the Cassiar Batholith located 8 kilometres to the west. Intrusive and metasedimentary rocks are of Cretaceous and Lower Cambrian or Earlier age respectively.

4.2 PROPERTY GEOLOGY (Plate 1)

Outcrop on the Logan property is fair to poor (~5%). Additional information is provided by suboutcrop, felsenmeer and frost heave boulders. Thickness of overburden is expected to be less than 5 metres except in valley bottoms and near glacial features.

4.2 PROPERTY GEOLOGY (Plate 1) continued

Two principal lithologies occur on the Logan property. First, intrusive granodiorite rocks are represented by Map Units 1, 1a, 1c, 1d, 2 and 2 b. Secondly, metasedimentary rocks located in the southwest claims area are designated as Unit 3.

Igneous rock units have been classified and mapped according to texture and affiliation with sedimentary xenoliths. All Unit 1 and 2 intrusive rock units on the property weather blocky, very light grey and are composed of quartz, two feldspars, lesser biotite, muscovite, garnet and tourmaline.

Unit 1 is comprised of undivided pegmatitic and equigranular phases of granodiorite. Both phases commonly occur within outcrop area with pegmatites crosscutting equigranular textures. Both phases are locally crosscut by quartz and quartz-chalcedony veins, stockworks and breccia bodies.

Unit 1a consists of primarily pegmatitic granodiorite with minor equigranular and graphic textures.

Unit 1c is comprised of pegmatitic granodiorite with a significant clustering of graphic textures. These quartz-feldspar intergrowths form spectacular geometric textures with cream feldspars in sharp contrast with grey quartz.

Unit 1d consists of pegmatitic granodiorite with minor meta-sedimentary rock xenoliths. The xenoliths range in size from 0.1 metre to 10.0 metres. Metasedimentary rocks include quartz-biotite schist and micaceous quartzite. Unit 1d occurs most frequently in the southwest claims area and resembles a migmatite.

4.2 PROPERTY GEOLOGY (Plate 1) continued

Unit 2 is comprised of a medium grained, equigranular, non-pegmatitic granodiorite. This equigranular map unit occurs far less frequently than pegmatite phases and is found only in small outcrop areas.

Unit 2b consists of medium grained, equigranular granodiorite with minor pegmatitic phases.

Unit 3, located in the extreme southwest claims area, is comprised of medium brown-grey weathering quartz biotite-muscovite schist with interbedded quartzite. Minor sills and dykes of pegmatitic granodiorite intrude the meta-sedimentary rocks.

A felsite dyke (not on map) occurs as float in close association with disseminated quartz vein, stockwork, and breccia polymetallic sulphide mineralization.

Structure on the property is highlighted by several north, northeast and east trending topographical linears. Mineralization appears closely related to similar trending structures.

CHAPTER 5.0

M I N E R A L I Z A T I O N
(PLATE 1)

Three showing areas; the Main, East and West, have been delineated on the Logan property. By far, the most important of these three areas presently is the Main Showing with its coincident geochemical, geophysical and mineralogical anomalies.

5.1 MAIN SHOWING

The Main Showing is defined by intermittent float and bedrock mineralization occuring in an area approximately 1200 metres long by 150 metres wide in the central Logan claims. To date, the best mineralization has been found at 1+00N between lines 1+00W and 3+00E (grid coordinates). Mineralization appears to occur along trends (easterly and northeasterly) reflecting strong underlying structural controls.

Mineralization includes banded massive sulfides, predominantly sphalerite with lesser chalcopyrite, pyrite and arsenopyrite in a 1.78 metre wide vein structure commonly referred to as the Main Vein. Previously reported assay results from sampling of the Main Vein include values of 7.22% Zn, 1.86 oz/ton Ag and 0.73% Cu from a continuous chip sample and 35.88% Zn, 10.87 oz/ton Ag and 1.42% Cu from a selected grab sample.

5.1 MAIN SHOWING continued

Other significant mineralization in the Main Showing area consist of disseminated arsenopyrite, tetrahedrite, pyrite, sphalerite, galena, chalcopyrite and an unidentified tin mineral hosted by quartz veins, stockworks and small breccia bodies in highly altered granodorite or greisen-like rocks. Widespread hydrothermal alteration includes silicification, sericitization, and kaolinization. Grab samples of this material assayed up to 16.35 oz/ton Ag, 1.42% Sn, 3.24% Zn, 19.89% Ag, 0.51% Pb and 0.70% Cu. Complete assay results are plotted on Plate 1.

5.2 EAST SHOWING

The Logan East Showing was discovered by prospectors following up strongly anomalous lead-silver soil geochemistry. The principal showing is located at 21+80E, 1+00N with mineralization spread over an area 200 metres long by 60 metres wide. Other float occurrences have been found at 19+50E, 6+50N and 22+00E, 4+50N.

Mineralization is hosted by highly altered granodiorite cross-cut by quartz veins. Grab samples of tetrahedrite, galena, sphalerite, pyrite and arsenopyrite-bearing disseminated type mineralization assayed up to 23.67 oz/ton silver, 6.2% zinc, 1.93% lead, 1000 ppm tin and >1000 ppm arsenic.

Scattered mineralized float has been discovered in the drift-covered area between the Main and East showings, greatly enhancing the economic potential of the Logan claims.

Results from East Showing rock samples are plotted on Plate 1.

5.3 WEST SHOWING

The West Showing area is centered at 16+25W, 6+25S. Arsenopyrite-pyrite mineralization is hosted by a large chalcedony-quartz breccia body. In addition, quartz veins crosscutting metasedimentary and intrusive rocks are moderately anomalous in copper, lead and zinc. Values to 160 ppb Au, 24 ppm Ag, 1465 ppm Pb, 2000 ppm Zn, 5500 ppm Sn and >1000 ppm Ag have been returned from rock geochemical analyses. The West Showing is a low priority target area, for future exploration.

Results from West Showing rock samples are plotted on Plate 1.

CHAPTER 6.0

GEOCHEMISTRY

6.1 INTRODUCTION AND ANALYTICAL METHODS

A total of 1785 samples were collected from the "B" soil horizon on the Logan property. Of this total, 940 soil samples were taken from the Logan 37-88 claims where geochemical work is applicable for assessment credits. Samples were collected every 50 metres on lines 200 metres apart and placed in grid numbered kraft soil sample bags. The corresponding sample location was marked by a grid numbered piece of plastic flagging tape. Notes in the field were made concerning sample depth, colour, texture and local physiography.

The samples were dried and sieved to minus 80 mesh in camp, then sent to Bondar-Clegg & Co. Ltd., North Vancouver, B. C. laboratory for analytical treatment. The minus 80 mesh material was digested using a hot extraction HNO_3-HCl solution and copper, lead, zinc and silver analysis was completed with atomic absorption techniques. For arsenic, the sample was first digested using a nitric perchloric extraction followed by colourimetric analysis. Tin was analysed by X-Ray fluorescence techniques.

Laboratory analytical reports are appended to this report.

6.2 RESULTS

Results for the Logan soil geochemical survey are plotted for each element on Plates 2 to 7 inclusive. In addition, each element is discussed separately below in Sections 6.2.1 through 6.2.6.

A very strong, coincident copper-lead-zinc-silver-tin soil anomaly outlines and coincides with the Main Showing mineralized area. The anomaly trends northeasterly and easterly and covers an area approximately 1200 metres long by 150 metres wide. The anomaly is truncated sharply at its western edge at line 2+00W, and disperses irregularly to the east and northeast due in part to increased valley overburden. Anomalous arsenic and zinc geochemistry in the area between the Main and East Showings indicates a very great potential for further mineral discoveries from covered sources.

Coincident anomalous silver-lead-arsenic-tin and copper soil geochemistry led directly to the discovery of East Showing mineralization. This small northeast trending anomaly is terminated to the east at line 25+00E.

Coincident weak to moderately anomalous copper-lead-silver-tin and arsenic soil geochemistry outlines a broad area known as the West Showing. Mineralization discovered to date in this area includes pyrite, arsenopyrite and small amounts of an unidentified tin mineral.

Other small low priority single and multi-element soil anomalies are widely dispersed in the southwest and east-central claims area.

6.2.1 COPPER GEOCHEMISTRY (PLATE 2)

At the Main Showing, anomalous copper soil geochemistry is located in an area approximately 1400 metres long by 125 metres wide. The highest five values in parts per million copper are 700, 540, 323, 296 and 272. This very significant east and northeast trending anomaly is underlain by chalcopyrite and tetrahedrite mineralization.

In the East Showing area, a single station, first order copper value of 122 ppm is located northwest of known mineral occurrences.

In the southwest claims area, several broad second order copper soil anomalies have been outlined. These northeast trending anomalies have values in the 70 to 80 ppm copper range and are underlain by quartz-mica schists, micaceous quartzite and rare pyroxene skarn.

6.2.2 LEAD GEOCHEMISTRY (PLATE 3)

Lead geochemistry outlines a significant soil anomaly over the Main Showing area. A 1200 metre long by 100 metre wide northeast trending lead soil anomaly extends over the mineralized area. Insufficient lead mineralization has been found to date to explain the very high lead soil geochemistry which includes values of 5400, 5200, 5200, 2600 and 420 ppm Pb.

The East Showing located at 22+00E, 1+00N is underlain by a small but significant first order lead soil anomaly with values to 1540 ppm Pb. Two other first order lead anomalies lie 200 and 400 metres north of known East Showing mineralization.

6.2.2 LEAD GEOCHEMISTRY (PLATE 3) continued

Elsewhere on the property, several small anomalies have been outlined including one in the West Showing area with values to 72 ppm Pb. Other lead soil anomalies of note with best values listed are located at 18+00E, 7+50S (88 ppm Pb) and 18+00W, 5+00N (119 ppm Pb).

6.2.3 ZINC GEOCHEMISTRY (PLATE 4)

In the Main Showing area, a broad hydromorphically dispersed, strong zinc soil anomaly occurs over an area 1800 metres long by up to 600 metres wide. Peak zinc values of 28,000, 20,000 and 17,050 ppm Zn have been recorded over the large kill zone/gossan at 0+00E, 0+00N. The anomaly is sharply truncated to the west at line 2+00W but disperses far to the east to line 16+00E, 600 metres west of the East Showing. The anomaly is underlain by significant massive and disseminated sphalerite mineralization.

A weak to moderately strong zinc soil anomaly, 850 metres long by up to 100 metres wide is located in the West Showing area. Values to 2000 ppm zinc have been recorded.

Several other small, widely scattered, single station, second order zinc soil anomalies are located throughout the Logan property.

6.2.4 SILVER GEOCHEMISTRY (PLATE 5)

A very significant silver soil anomaly, 1000 metres long by 200 metres wide overlies the Main Showing on the Logan claims. The five highest values, all in parts per million silver, are 35.0, 25.0, 18.0, 17.0 and 17.0. The anomaly disperses in an irregular manner to the east and southeast and is abruptly terminated to the west at line 2+00W.

Several small, first order soil anomalies are situated near 22+00E, 2+00N in the East Showing area. Values to 12.0 ppm silver have been returned. Significant tetrahedrite, arsenopyrite, sphalerite and galena discoveries were located on the basis of this anomalous soil geochemistry.

At the West Showing a single station, low first order value of 3.8 ppm Ag was recorded.

At 16+00E, 9+00S, a 400 metre long by 100 metre wide east trending first and second order soil anomaly with values to 12.0 ppm silver occurs. To date, no mineralization has been located in this anomalous area.

6.2.5 TIN GEOCHEMISTRY (PLATE 6)

Anomalous tin soil geochemistry is best expressed over the Main and West Showing areas. Also, tin values generally increase over Unit 1d, pegmatites and metasediments and near the metasediment-intrusive contact in the southwest claims area.

6.2.5 TIN GEOCHEMISTRY (PLATE 6) continued

In the Main Showing area, a strong, east trending anomaly, 1200 metres long by 150 metres wide underlies areas of known and projected mineralization. The five best values in this area in parts per million tin are: 635, 370, 240, 195 and 165.

The West Showing area is well defined by tin geochemistry. A moderate, northeast trending anomaly 600 metres long by 150 metres wide with values to 190 ppm tin occurs in an area characterized by intense silicification, brecciation and alteration.

The East Showing is underlain by a small, second order tin soil anomaly with values to 87 ppm Sn.

Elsewhere on the property, particularly in the southwest claims, several small first and second order tin soil anomalies are present and include isolated values of 310, 230, 215, 210 and 200 ppm Sn. These anomalies may represent elevated tin background readings associated with alumina-rich metasedimentary rocks.

6.2.6 ARSENIC GEOCHEMISTRY (PLATE 7)

The majority of samples collected during the 1984 field season were analysed for arsenic. Unfortunately, no arsenic analyses were completed over the Main Showing area in sampling conducted prior to 1984. Arsenic geochemistry is an excellent pathfinder for Logan-type mineralization based on the near ubiquitous presence of arsenopyrite in association with the more important silver, zinc, copper and tin metals.

6.2.6 ARSENIC GEOCHEMISTRY (PLATE 6) continued

A broad, highly dispersed arsenic soil anomaly is located east and northeast of the Main Showing area and arsenic is the only element to show a soil anomaly through to and including the East Showing area. This important soil geochemical anomaly indicates the presence of underlying mineralizing structures.

The East Showing is underlain by an arsenic soil anomaly 400 metres long by 300 metres wide with values of up to and including 550, 300, 300, 270 and 190 ppm As. The East Showing anomaly continues west for 600 metres to connect with projected Main Showing mineralization.

A very large, highly dispersed arsenic soil anomaly 1000 metres long by 500 metres wide is situated between lines 10+00E and 22+00E from 0+00N to 10+00S. Values include highs of 410, 300, 210, 210 and 210 ppm As.

The West Showing is punctuated by a small first order arsenic anomaly with values of 170 ppm As.

Another significant arsenic soil anomaly is centered at 12+00E, 21+00S. This northwest trending first order, single line, 350 metres long anomaly has values of up to and including 410, 380, and 170 ppm arsenic. No mineralization has been discovered to date in this area.

CHAPTER 7.0

TRENCHING SUMMARY

Hand trenching was completed on the Logan 3 claim at 2+70E, 1+60N and its location is plotted as TR84-L-1 on Plate 1. One trench, 6.0 metres long by 1.3 to 3.2 metres wide and up to 0.8 metres deep was excavated by hand to bedrock over an area of significant greisen and quartz vein hosted tetrahedrite and arsenopyrite mineralization.

Trenching exposed highly altered granodiorite crosscut by numerous quartz veins and veinlets up to 40 cm wide. Both quartz veins and wallrock are well mineralized with arsenopyrite, pyrite and minor tetrahedrite and chalcopyrite. Alteration is pervasive and is dominated by silicification, kaolinization and sericitization.

Assay results from trench sampling are listed in Table 2. Chip samples were composed of approximately 60% quartz vein and 40% altered wall rock. The grab sample was collected from arsenopyrite-rich altered wall rock.

TABLE 2

TRENCH 84-L-1 SAMPLING RESULTS

TAG NO.	SAMPLE LENGTH	Pb	Zn	Ag	Cu	Sn	As	Au
20201	0.70 metres	280 ppm	232 ppm	1.45 oz/ton	0.05%	94 ppm	-	<.002 oz/ton
20202	0.60 metres	720 ppm	208 ppm	1.29 oz/ton	0.02%	185 ppm	-	<.002 oz/ton
-	Grab	0.02%	0.04%	2.74 oz/ton	0.70%	0.01%	19.89%	.002 oz/ton

8.0 STATEMENT OF EXPENDITURES

CANADA)
)
)
TO WIT:)

In the matter of a geological, geochemical and trenching report on the Logan 1-88 (inclusive) mineral claims on behalf of Regional Resources Ltd.

I, Michael A. Stammers, agent for Regional Resources Ltd.

of 1980 - 1055 West Hastings Street, Vancouver, B.C. V6E 2E9

do solemnly declare, - that an exploration program was undertaken on the Logan mineral property during the period June 1 to June 30, 1984 and that the following expenses incurred performing this work and in the later preparation of the report.

WAGES:	Field: Geologist/Supervision	25d x $120/d x $1.35*	$ 4,050ρ	
	Cook/Sampler	25d x $ 88/d x 1.35	2,970ρ	
	Sampler	25d x $ 68/d x 1.35	2,295ρ	
	Sampler	25d x $ 68/d x 1.35	2,295ρ	
	Geologist	2d x $120/d x 1.35	324T	
	Trencher/Sampler	1d x $100/d x 1.35	135T	
	Office: Geologist/Report Prep	15d x $150/d	2,250ρ	$ 14,319
PROFESSIONAL SERVICES and MANAGEMENT FEES:				20,900ρ
TRANSPORTATION:	Charter Helicopter incl.fuel	18.7hr x $475/hr	8,882ρ	
	Charter Helicopter incl.fuel	5.0hr x $475/hr	2,375T	
	Trucking		237ρ	
	Travel and Accommodations		1,005ρ	
	Truck Rental		206ρ	12,705
ROOM AND BOARD	Crew	25d x 4 men x $30/d	3,000ρ	
	Physical work	23 mandays x $30/d	690T	3,690
GEOCHEMICAL ANALYSIS	940 Pb,Zn,Ag,Cu,Sn,As @ $12.70/soil sample			11,938
ROCK ASSAYS:	17 Various Element Rock Assays		500	
	2 Various Element Rock Assays		98T	598
CAMP SUPPLIES:				2,428ρ
CONTRACT DRAFTING:				5,650ρ
CONTRACT LINECUTTING:	13.4 km @ $300/km			4,018T
ORTHOPHOTO MAPPING:				4,300ρ
EQUIPMENT RENTAL:				2,200ρ
RADIO RENTAL:				648ρ
PRINTING AND OFFICE SUPPLIES:				1,229ρ
TELEPHONE/POSTAGE:				443ρ
FREIGHT:				857ρ
GAS/PROPANE:				585ρ
			TOTAL:	$ 86,508

*Overtime and Benefits Factor.
ρDenotes prorated expense
TTrenching and linecutting expenses

TOTAL DIRECT COST FOR LINECUTTING AND TRENCHING on	LOGAN 1-36	$ 7,640
TOTAL COST FOR GEOCHEMICAL,GEOLOGICAL SURVEYS on	LOGAN 1-88	$ 78,868
PRORATED COST FOR GEOCHEMICAL,GEOLOGICAL WORK on	LOGAN 37-88	$ 58,229

And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of The Canada Evidence Act.

Declared before me at Vancouver)
in the Province of B.C. **this**)
29 **day of** January 1984)

Michael Stammers

A Commissioner for Oaths for Yukon Territory OR Notary Public for Yukon Territory.

CHAPTER 9.0

LIST OF PERSONNEL AND CONTRACTORS

PERSONNEL

Name/Address	Position	Dates Worked	Days Worked
Ed Balon N. Vancouver, B. C.	Trencher/ Sampler	June 11, 1984	1
Dave O'Brien Ladysmith, B. C.	Sampler	June 1-25, 1984 inclusive	25
Jeff Rowe N. Vancouver, B. C.	Trencher/ Geologist	June 10,11, 1984	2
Kelinda Sax Sedgewick, Alberta	Sampler	June 1-25, 1984 inclusive	25
Michael Stammers P. Coquitlam, B. C.	Geologist/ Supervisor	June 1-25, 1984 inclusive	25
Jan Tindle Whistler, B. C.	Cook/ Sampler	June 1-25, 1984 inclusive	25

CONTRACTORS

McCrory Holdings (Yukon) Ltd. Whitehorse, Yukon	Linecutting	June 2-12, 1984	11
Phoenix Geophysics Ltd. Vancouver, B. C.	Geophysical Surveys	June 17-25, 1984	9

10.0 WRITER'S CERTIFICATE

I, Michael A. Stammers of Port Coquitlam, British Columbia hereby certify that:

1. I am a geologist residing at 1134 Lombardy Drive, and employed by Cordilleran Engineering of 1980-1055 West Hastings Street.

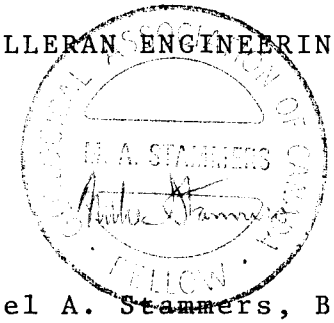
2. I have received a B.A. degree in Geology and Geography from McMaster University, Hamilton, Ontario in 1977 and I am a Fellow of the Geological Association of Canada.

3. I have practiced my profession for eleven years in British Columbia, Yukon and the Northwest Territories.

4. I am the author of this report and the supervisor of the field work conducted on the Logan 1-88 claims by Cordilleran Engineering during the period June 1 to June 30, 1984.

5. I have no beneficial interest in the claims covered by this report or in Regional Resources Ltd.

CORDILLERAN ENGINEERING



MAS/g
January 1985
Vancouver, B. C.

Michael A. Stammers, B.A.
Geologist

CHAPTER 11.0

B I B L I O G R A P H Y

1. Geological Survey of Canada, Map 10-1960.

2. Summary Report on the Logan Property
For: Regional Resources Ltd., December 1983
By : Cordilleran Engineering

3. Geochemical Report on the Logan Claim Group
Assessment Report for Regional Resources Ltd., November 1982
By : Cordilleran Engineering

4. Geochemical Report on the Logan Claim Group
Assessment Report, January 1981
For: Regional Resources Ltd.
By : Cordilleran Engineering

5. Preliminary Evaluation of the Logan Claim Group
For: Regional Resources Ltd., January 1980
By : Cordilleran Engineering

CHAPTER 12.0

L A B O R A T O R Y

ANALYTICAL REPORTS

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
Canada V7P 2R5
Phone: (604) 985-0681
Telex: 04-352667

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 124-1930 | PROJECT: LOGAN | PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
S 2400E-00N		20	46	315	1.4	65	12	
S 2400E-50N		6	43	156	0.4	47	<5	
S 2400E-100N		11	34	329	0.3	45	13	
S 2400E-150N		27	29	329	0.4	31	<5	
S 2400E-200N		11	162	341	2.3	70	<5	
S 2400E-250N		8	24	67	0.6	8	7	
S 2400E-300N		9	55	170	0.6	41	<5	
S 2400E-350N		9	37	129	1.3	32	8	
S 2400E-400N		5	14	39	<0.2	6	<5	
S 2400E-450N		5	14	55	0.2	14	<5	
S 2400E-500N		6	36	129	0.3	26	6	
S 2400E-550N		4	14	107	0.4	8	<5	
S 2400E-600N		6	28	145	0.3	14	<5	
S 2400E-650N		5	24	120	0.3	12	<5	
S 2400E-700N		11	32	176	<0.2	22	9	
S 2400E-750N		7	30	241	0.3	31	10	
S 2400E-800N		6	30	110	0.2	21	<5	
S 2400E-50S		8	53	113	0.9	21	5	
S 2400E-100S		5	45	101	4.5	18	8	
S 2400E-150S		3	20	31	0.5	8	13	
S 2400E-200S		14	24	159	0.7	18	9	
S 2600E-00N		7	15	164	0.2	6	<5	
S 2600E-50N		5	18	138	<0.2	4	<5	
S 2600E-100N		7	18	134	<0.2	6	<5	
S 2600E-150N		4	9	194	<0.2	4	<5	
S 2600E-200N		7	14	144	<0.2	4	11	
S 2600E-250N		11	14	282	<0.2	6	13	
S 2600E-300N		5	16	246	<0.2	7	<5	
S 2600E-350N		3	7	125	<0.2	3	<5	
S 2600E-400N		8	32	147	0.6	18	<5	
S 2600E-450N		1	10	30	<0.2	3	<5	
S 2600E-550N		4	18	80	0.2	4	8	
S 2600E-600N		3	18	114	<0.2	4	<5	
S 2600E-700N		12	35	148	0.2	18	7	
S 2600E-750N		12	15	79	<0.2	4	7	
S 2600E-800N		6	9	67	0.2	4	<5	
S 2600E-50S		5	16	100	<0.2	11	12	
S 2600E-100S		7	37	161	0.5	21	<5	
S 2600E-150S		5	48	162	0.6	12	10	
S 2600E-200S		7	62	159	0.7	11	7	

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Geochemical Lab Report

REPORT: 124-1930 | PROJECT: LOGAN | PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
2800E-00N		5	23	82	<0.2	11	<5	
2800E-50N		6	15	54	0.2	8	<5	
S 2800E-100N		3	7	38	<0.2	3	<5	
S 2800E-150N		2	11	18	0.2	3	9	
2800E-200N		6	11	74	<0.2	4	<5	
S 2800E-250N		3	16	105	<0.2	3	<5	
2800E-300N		7	60	379	0.7	38	<5	
2800E-350N		3	7	128	<0.2	7	<5	
S 2800E-400N		2	6	15	<0.2	3	6	
2800E-450N		2	16	61	0.2	3	<5	
S 2800E-500N		3	10	47	<0.2	3	6	
S 2800E-550N		12	30	99	0.2	11	<5	
2800E-600N		4	11	32	<0.2	3	6	
2800E-650N		6	12	32	<0.2	3	5	
S 2800E-700N		3	12	25	<0.2	3	6	
2800E-750N		7	18	45	<0.2	3	<5	
S 2800E-800N		16	20	82	<0.2	7	6	
2800E-50S		1	9	16	<0.2	3	6	
2800E-100S		5	24	109	<0.2	11	<5	
S 2800E-150S		3	10	40	<0.2	6	7	
2800E-200S		3	16	39	<0.2	11	11	
3000E-50N		7	11	35	<0.2	3	<5	
S 3000E-100N		4	11	21	0.2	8	10	
3000E-150N		11	24	92	0.2	8	<5	
3000E-200N		3	15	99	<0.2	4	<5	
3000E-250N		5	19	77	<0.2	32	8	
3000E-300N		39	60	194	0.4	48	<5	
S 3000E-350N		4	13	35	0.2	3	8	
S 3000E-400N		5	14	56	0.2	7	<5	
3000E-450N		7	14	67	<0.2	7	<5	
S 3000E-500N		6	9	34	0.2	3	10	
3000E-550N		10	12	80	<0.2	4	<5	
3000E-600N		7	10	46	<0.2	4	<5	
S 3000E-650N		13	16	69	<0.2	6	12	
3000E-700N		6	15	44	0.2	7	12	
S 3000E-750N		2	7	19	<0.2	6	6	
S 3000E-800N		4	6	24	0.2	3	10	
3000E-00S		<1	10	9	0.2	3	<5	
3000E-50S		4	17	64	<0.2	11	10	
S 3000E-100S		3	11	37	<0.2	4	<5	

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Geochemical Lab Report

REPORT: 124-1930 | PROJECT: LOGAN | PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
3000E-150S		7	21	84	<0.2	12	<5	
3000E-200S		4	19	50	<0.2	4	<5	
3200E-50N		7	15	42	0.2	4	7	
3200E-100N		2	5	14	0.2	3	<5	
3200E-150N		4	15	71	<0.2	8	<5	
3200E-200N		3	6	45	<0.2	3	<5	
3200E-250N		3	9	44	0.2	3	<5	
3200E-300N		12	39	143	0.3	13	<5	
3200E-350N		4	21	56	<0.2	6	14	
3200E-400N		2	15	29	0.3	3	<5	
3200E-450N		7	12	80	0.2	4	<5	
3200E-500N		3	16	27	0.2	6	8	
3200E-550N		2	2	9	<0.2	3	18	
3200E-600N		3	8	20	<0.2	6	6	
3200E-650N		4	10	24	<0.2	3	8	
3200E-700N		5	11	38	<0.2	4	21	
3200E-750N		5	10	39	<0.2	6	6	
3200E-800N		6	13	60	<0.2	8	<5	
3200E-00S		9	19	89	0.2	7	<5	
3200E-50S		3	5	34	<0.2	3	<5	
3200E-100S		4	6	39	<0.2	3	<5	
3200E-150S		2	9	28	0.2	6	<5	
3200E-200S		2	12	38	0.5	4	<5	
3400E-50N		3	7	55	<0.2	3	9	
3400E-100N		6	10	66	<0.2	3	<5	
3400E-150N		11	20	134	<0.2	8	<5	
3400E-200N		5	10	32	0.2	7	16	
3400E-250N		5	12	83	<0.2	3	<5	
3400E-300N		7	17	77	0.4	11	<5	
3400E-350N		7	29	94	<0.2	12	<5	
3400E-400N		4	16	39	<0.2	3	14	
3400E-450N		3	16	31	<0.2	4	14	
3400E-500N		6	13	45	<0.2	8	8	
3400E-550N		6	13	42	<0.2	4	<5	
3400E-600N		6	12	21	0.2	3	9	
3400E-650N		8	13	52	<0.2	3	6	
3400E-700N		14	16	92	<0.2	4	6	
3400E-750N		7	11	60	<0.2	6	<5	
3400E-800N		10	13	71	<0.2	6	<5	
3400E-00S		7	13	44	0.5	3	<5	

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Geochemical Lab Report

REPORT: 124-1930

PROJECT: LOGAN PAGE 4

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
S 3400E-50S		8	20	125	0.3	15	<5	
S 3400E-100S		11	25	126	0.2	31	<5	
S 3400E-150S		9	23	129	0.2	11	11	
S 3400E-200S		6	14	40	0.2	3	<5	
R 20217		37	515	915			77	
R 20218		36	20	1000				
R 20219		28	1585	303				
R 20220		59	15	337				
R 20221		42	19	3150				

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Geochemical Lab Report

REPORT: 124-1381

PROJECT: LOGAN PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sn PPM	NOTES
S 1400W 550S		20	10	108	0.3			20	
S 1400W 600S		14	6	134	0.5			11	
S 1400W 650S		20	14	260	<0.2			18	
S 1400W 700S		25	15	274	0.2			31	
S 1400W 750S		13	5	95	<0.2			37	
S 1400W 800S		20	11	246	0.2			9	
S 1400W 850S		16	6	140	<0.2			39	
S 1400W 900S		9	15	65	<0.2			40	
S 1400W 950S		40	18	178	<0.2			43	
S 1400W 1000S		8	5	24	<0.2			63	
S 1400W 1050S		11	18	28	0.3			12	
S 1400W 1100S		24	22	104	<0.2			77	
S 1400W 1150S		4	5	15	<0.2			55	
S 1400W 1200S		18	18	124	0.4			40	
S 1400W 1250S		20	19	78	<0.2			78	
S 1400W 1300S		25	21	134	<0.2			26	
S 1400W 1350S		93	14	350	<0.2			110	
S 1400W 1400S		20	13	80	0.2			5	
S 1400W 1450S		29	14	78	<0.2			43	
S 1400W 1500S		42	16	98	<0.2			42	
S 1400W 1550S		47	11	188	<0.2			39	
S 1400W 1600S		77	15	280	<0.2			54	
S 1400W 1650S		70	12	150	<0.2			78	
S 1400W 1700S		70	12	160	<0.2			46	
S 1400W 1750S		73	14	210	<0.2			43	
S 1400W 1800S		54	14	119	<0.2			16	
S 1400W 1900S		26	11	70	<0.2			9	
S 1400W 1950S		22	11	66	<0.2			23	
S 1400W 2000S		14	11	40	<0.2			<5	
S 1400W 2050S		34	15	78	<0.2			11	
S 1400W 2100S		40	14	90	<0.2			<5	
S 1400W 2150S		4	3	9	<0.2			<5	
S 1400W 2200S		20	13	48	<0.2			17	
S 1400W 2250S		15	11	52	<0.2			9	
S 1400W 2300S		30	14	80	<0.2			<5	
S 2000W 00N		7	11	100	0.3			<5	
S 2000W 50N		4	8	79	<0.2			6	
S 2000W 100N		4	16	132	0.3			11	
S 2000W 150N		17	90	145	0.7			7	
S 2000W 200N		5	11	57	0.2			6	

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Geochemical Lab Report

REPORT: 124-1381 | PROJECT: LOGAN | PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sn PPM	NOTES
S 2000W 250N		4	12	34	<0.2			16	
S 2000W 300N		3	6	22	0.2			12	
S 2000W 350N		4	11	59	<0.2			10	
S 2000W 400N		8	14	159	0.3			7	
S 2000W 450N		7	14	64	0.3			10	
S 2000W 500N		7	12	60	1.2			14	
S 2000W 550N		8	12	45	<0.2			6	
S 2000W 600N		6	26	37	1.4			<5	
S 2000W 650N		2	8	14	0.2			<5	
S 2000W 700N		1	7	32	0.2			<5	
S 2000W 750N		3	16	44	<0.2			<5	
S 2000W 800N		4	12	38	<0.2			15	
S 2000W 850N		4	28	60	0.4			<5	
S 2000W 900N		3	18	15	0.3			<5	
S 2000W 950N		1	14	0	<0.2			9	
S 2000W 1000N		4	50	28	1.1			<5	
S 2000W 1050N		10	26	63	2.4			6	
S 2000W 1100N		6	21	24	0.2			<5	
S 2000W 1150N		9	25	64	0.3			10	
S 2000W 1200N		8	27	64	0.2			<5	
S 2000W 1250N		12	26	27	0.2			8	
S 2000W 1300N		7	46	33	0.3			6	
S 2000W 50S		5	16	224	0.2			<5	
S 2000W 100S		4	17	162	<0.2			6	
S 2000W 150S		8	51	346	0.2			165	
S 2000W 200S		4	5	68	<0.2			62	
S 2000W 250S		7	14	77	<0.2			65	
S 2000W 300S		4	10	42	0.2			58	
S 2000W 350S		5	17	99	<0.2			46	
S 2000W 400S		6	18	141	<0.2			57	
S 2000W 450S		18	41	174	0.6			50	
S 2000W 500S		24	68	153	0.8			68	
S 2000W 550S		6	16	61	0.7			12	
S 2000W 600S		10	18	94	0.6			15	
S 2000W 650S		10	21	131	0.8			68	
S 2000W 700S		21	12	104	0.4			<5	
S 2000W 750S		41	13	148	1.5			13	
S 2000W 800S		24	12	114	0.4			93	
S 2000W 850S		18	12	410	0.5			40	
S 2000W 900S		22	16	168	0.3			50	

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Geochemical Lab Report

REPORT: 124-1381 | PROJECT: LOGAN | PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sn PPM	NOTES
S 2000W 950S		28	12	112	0.2			64	
S 2000W 1000S		30	15	147	0.7			79	
S 2000W 1050S		24	11	130	0.3			18	
S 2000W 1100S		21	13	43	<0.2			65	
S 2000W 1150S		60	17	128	1.2			51	
S 2000W 1200S		46	20	96	0.6			53	
S 2000W 1250S		56	17	142	0.5			36	
S 2000W 1300S		86	21	128	0.3			28	
S 2000W 1350S		31	20	56	0.3			51	
S 2000W 1400S		35	15	58	<0.2			54	
S 2000W 1450S		50	17	88	0.2			32	
S 2000W 1500S		46	18	106	<0.2			33	
S 2000W 1550S		80	11	84	0.2			7	
S 2000W 1600S		39	12	114	<0.2			21	
S 2000W 1650S		35	10	124	0.4			27	
S 2000W 1700S		28	10	129	0.5			19	
S 2000W 1750S		47	12	106	0.2			36	
S 2000W 1800S		83	25	75	0.2			19	
S 2000W 1850S		58	17	170	0.6			56	
S 2000W 1900S		43	17	111	0.2			25	
S 2000W 1950S		31	15	80	0.2			26	
S 2000W 2000S		59	10	500	<0.2			51	
S 2000W 2050S		23	18	112	<0.2			15	
S 2000W 2100S		20	17	74	<0.2			<5	
S 2000W 2150S		11	16	54	<0.2			<5	
S 2000W 2200S		10	12	50	<0.2			6	
S 2000W 2250S		11	14	58	<0.2			9	
S 2000W 2300S		8	28	36	<0.2			14	
S 2200W 00N		9	15	84	0.2			6	
S 2200W 50N		6	14	440	0.3			38	
S 2200W 100N		7	19	35	0.2			19	
S 2200W 150N		2	10	9	<0.2			<5	
S 2200W 200N		1	12	20	0.3			22	
S 2200W 250N		3	14	63	<0.2			8	
S 2200W 300N		4	14	68	<0.2			<5	
S 2200W 350N		4	12	27	<0.2			6	
S 2200W 400N		2	8	20	<0.2			<5	
S 2200W 450N		2	15	93	<0.2			7	
S 2200W 500N		4	14	44	<0.2			<5	
S 2200W 550N		3	20	25	<0.2			<5	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sn PPM	NOTES
S 2200W 600N		6	30	80	<0.2			<5	
S 2200W 650N		4	10	32	<0.2			6	
S 2200W 700N		2	18	19	0.2			<5	
S 2200W 750N		2	8	22	<0.2			17	
S 2200W 800N		5	21	43	0.2			<5	
S 2200W 850N		3	12	25	<0.2			8	
S 2200W 900N		6	53	36	0.5			<5	
S 2200W 950N		4	16	32	<0.2			<5	
S 2200W 1000N		<1	13	10	0.2			6	
S 2200W 1050N		1	10	14	<0.2			<5	
S 2200W 1100N		11	24	44	0.6			<5	
S 2200W 1150N		8	26	23	0.3			<5	
S 2200W 1200N		10	61	61	<0.2			<5	
S 2200W 1250N		6	15	48	0.2			<5	
S 2200W 1300N		6	29	47	<0.2			8	
S 2200W 50S		73	58	1310	1.7			29	
S 2200W 100S		11	14	60	<0.2			36	
S 2200W 150S		13	20	103	0.8			28	
S 2200W 200S		18	30	193	0.3			83	
S 2200W 250S		21	27	252	<0.2			71	
S 2200W 300S		6	14	101	0.2			44	
S 2200W 350S		46	25	480	1.2			115	
S 2200W 400S		5	12	40	0.5			13	
S 2200W 450S		36	72	184	0.8			58	
S 500SW 250NW		29	41	890	1.6			16	
T 15+95W 5+95S		28	32	680	0.4			21	
R 7+10S 1575W					<0.2		<5	1000	
R 12+75E 70N			38	440	<0.2		<5	<5	
R 13+00E 60N			93	19000	2.7		<5	<5	
R 15+25W 5+35S		41	87	180	10.0		<5	125	
R 15+25W 7+30S		126	6	224	0.8		<5	370	
16+30W-PREFIX									
R 6+30S DOR-4					1.3	> 1000	60	18	
R 6+30S DOR-5			18	15	1.5	1000	40	13	
R 6+30S DOR-6		17	16	25	1.2	> 1000	30	23	
R 16+55W 6+35S					2.5	210	10	29	
R 17+95W 4+90S		56	19	208	9.6			5500	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
S 400W-550S		11	18	71	<0.2	17	19	
S 400W-600S		6	11	50	0.2	13	20	
S 400W-650S		8	6	41	<0.2	8	29	
S 400W-700S		10	24	112	0.4	4	94	
S 400W-750S		19	21	101	0.9	4	9	
S 400W-800S		7	13	20	0.2	2	30	
S 400W-850S		4	12	71	0.2	2	15	
S 400W-900S		4	8	40	<0.2	3	39	
S 400W-950S		2	2	12	<0.2	3	17	
S 400W-1000S		5	6	25	<0.2	3	38	
S 400W-1050S		7	12	41	<0.2	4	16	
S 400W-1100S		11	17	108	<0.2	10	16	
S 400W-1150S		5	13	35	<0.2	4	29	
S 400W-1200S		17	20	92	<0.2	6	24	
S 400W-1250S		27	20	124	0.2	30	33	
S 400W-1300S		8	11	60	<0.2	5	24	
S 400W-1350S		10	10	34	<0.2	6	17	
S 400W-1400S		9	11	32	<0.2	3	22	
S 400W-1450S		26	18	184	<0.2	10	24	
S 400W-1500S		10	12	52	<0.2	5	23	
S 400W-1550S		25	14	122	<0.2	8	27	
S 400W-1600S		35	12	312	0.3	5	24	
S 400W-1650S		17	10	148	<0.2	6	33	
S 400W-1700S		11	10	112	<0.2	5	41	
S 400W-1750S		10	9	100	<0.2	6	50	
S 400W-1800S		10	11	100	<0.2	6	30	
S 400W-1850S		12	11	82	<0.2	9	36	
S 400W-2000S		9	11	44	<0.2	8	5	
S 400W-2050S		14	12	46	0.4	5	17	
S 400W-2100S		11	13	52	0.2	4	16	
S 400W-2150S		10	7	45	<0.2	5	20	
S 400W-2200S		22	15	92	0.3	8	13	
S 400W-2250S		18	8	56	<0.2	4	8	
S 400W-2300S		12	13	39	<0.2	4	10	
S 1800W-000		7	16	112	<0.2	9	14	
S 1800W-50N		2	12	30	0.2	10	9	
S 1800W-100N		6	11	79	0.3	9	8	
S 1800W-150N		2	7	38	<0.2	3	<5	
S 1800W-200N		5	11	70	0.2	7	31	
S 1800W-250N		7	18	104	0.2	10	7	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
S 1800W-300N		3	11	32	<0.2	6	7	
S 1800W-350N		5	13	24	<0.2	6	10	
S 1800W-400N		10	26	96	0.3	60	5	
S 1800W-450N		5	24	64	0.2	20	6	
S 1800W-500N		12	119	191	12.0	40	<5	
S 1800W-550N		3	7	36	0.8	5	<5	
S 1800W-600N		5	16	79	<0.2	30	14	
S 1800W-650N		4	16	21	0.3	5	<5	
S 1800W-700N		17	50	108	0.9	75	16	
S 1800W-750N		2	6	8	<0.2	2	7	
S 1800W-800N		3	25	24	0.2	15	9	
S 1800W-850N		6	15	40	<0.2	15	10	
S 1800W-900N		8	92	88	0.3	78	9	
S 1800W-950N		9	40	83	<0.2	32	10	
S 1800W-1000N		11	20	56	0.2	11	<5	
S 1800W-1050N		6	24	52	<0.2	14	9	
S 1800W-1100N		3	23	16	<0.2	6	<5	
S 1800W-1150N		11	44	64	<0.2	65	<5	
S 1800W-1200N		9	26	58	<0.2	12	<5	
S 1800W-1250N		4	11	24	<0.2	6	<5	
S 1800W-1300N		7	21	47	<0.2	10	6	
S 1800W-50S		6	18	174	<0.2	7	7	
S 1800W-100S		10	21	550	0.2	6	44	
S 1800W-150S		10	17	560	0.4	7	51	
S 1800W-200S		13	24	700	0.2	10	54	
S 1800W-250S		7	7	53	0.2	5	59	
S 1800W-300S		12	8	95	0.2	6	32	
S 1800W-350S		16	29	580	0.5	12	43	
S 1800W-400S		13	17	145	<0.2	10	67	
S 1800W-450S		6	17	152	<0.2	5	115	
S 1800W-500S		20	30	164	0.3	19	59	
S 1800W-550S		16	36	136	0.2	16	120	
S 1800W-600S		25	16	308	<0.2	16	190	
S 1800W-650S		34	20	600	0.7	48	35	
S 1800W-700S		10	6	40	3.8	5	10	
S 1800W-750S		4	5	20	0.3	5	49	
S 1800W-800S		19	33	210	0.4	22	68	
S 1800W-850S		19	23	146	0.3	24	67	
S 1800W-900S		13	15	82	0.2	14	52	
S 1800W-950S		44	21	81	0.7	13	26	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
S 1800W-1000S		16	17	92	0.3	11	12	
S 1800W-1050S		38	21	124	0.3	14	47	
S 1800W-1100S		30	20	84	0.2	10	60	
S 1800W-1150S		18	11	50	0.2	4	19	
S 1800W-1200S		38	20	74	0.2	12	52	
S 1800W-1250S		36	20	78	0.5	10	32	
S 1800W-1300S		55	17	108	0.2	18	40	
S 1800W-1350S		23	15	64	0.2	8	31	
S 1800W-1400S		43	13	71	0.2	11	49	
S 1800W-1450S		76	15	110	<0.2	11	29	
S 1800W-1500S		45	20	100	0.2	18	17	
S 1800W-1550S		30	15	66	<0.2	7	26	
S 1800W-1600S		44	12	88	<0.2	13	50	
S 1800W-1650S		43	14	105	<0.2	15	21	
S 1800W-1700S		45	14	88	<0.2	13	34	
S 1800W-1750S		50	11	102	<0.2	27	32	
S 1800W-1800S		34	14	94	<0.2	8	10	
S 1800W-1850S		17	13	55	<0.2	7	14	
S 1800W-1900S		39	13	144	<0.2	18	8	
S 1800W-1950S		44	14	180	<0.2	8	23	
S 1800W-2000S		30	13	124	<0.2	6	26	
S 1800W-2050S		27	10	96	<0.2	4	11	
S 1800W-2100S		21	9	76	<0.2	6	<2	
S 1800W-2150S		28	10	97	<0.2	5	19	
S 1800W-2200S		39	18	73	0.4	5	20	
S 1800W-2250S		12	16	67	<0.2	7	6	
S 1800W-2300S		11	12	47	<0.2	3	<2	
S 2400W-50N		3	3	17	<0.2	2	17	
S 2400W-100N		5	13	39	<0.2	8	<5	
S 2400W-150N		4	15	92	0.4	7	14	
S 2400W-200N		8	17	108	0.3	13	15	
S 2400W-250N		8	24	110	<0.2	17	<5	
S 2400W-300N		6	25	90	0.3	24	<5	
S 2400W-350N		7	22	116	0.4	28	<5	
S 2400W-400N		7	28	102	0.2	28	6	
S 2400W-450N		3	15	62	<0.2	13	<5	
S 2400W-500N		10	26	84	0.4	16	<5	
S 2400W-550N		6	23	52	<0.2	13	<5	
S 2400W-600N		8	23	79	<0.2	23	6	
S 2400W-650N		30	31	160	0.3	48	<5	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
S 2400W-700N		12	32	100	0.2	18	<5	
S 2400W-750N		5	37	182	<0.2	3	<5	
S 2400W-800N		1	10	12	<0.2	2	<5	
S 2400W-850N		4	33	27	<0.2	7	10	
S 2400W-900N		7	35	66	<0.2	17	<5	
S 2400W-950N		6	27	50	<0.2	27	<5	
S 2400W-1000N		5	29	51	0.2	32	5	
S 2400W-1050N		4	15	20	0.2	7	6	
S 2400W-1100N		10	21	53	<0.2	40	<5	
S 2400W-1150N		8	25	44	<0.2	15	<5	
S 2400W-1200N		6	13	46	0.2	30	5	
S 2400W-1250N		11	27	63	<0.2	58	<5	
S 2400W-1300N		11	17	64	<0.2	9	<5	
S 2400W-50S		17	34	346	0.9	12	50	
S 2400W-100S		12	21	115	<0.2	21	38	
S 2400W-150S		11	20	100	0.2	7	63	
S 2400W-200S		6	13	74	0.3	2	54	
S 2400W-250S		11	32	140	0.3	11	35	
S 2400W-300S		12	27	184	0.3	7	40	
S 2400W-350S		28	46	184	1.0	30	67	
S 2400W-400S		16	43	100	1.6	32	30	
S-2400W-450S		28	51	244	0.9	62	18	
S 2400W-500S		18	39	170	0.2	22	56	
S 2600W-550S		12	18	128	<0.2	32	18	
S 2600W-600S		15	17	182	<0.2	12	8	
S 2600W-650S		13	13	164	<0.2	7	7	
S 2600W-700S		16	14	250	<0.2	8	<5	
S 2600W-750S		20	14	240	<0.2	7	14	
S 2600W-800S		19	16	153	0.2	10	<5	
S 2600W-850S		32	21	840	0.2	13	26	
S 2600W-900S		27	12	292	0.3	20	15	
S 2600W-950S		18	10	500	0.3	23	<5	
S 2600W-1000S		31	14	372	0.4	20	29	
S 2600W-1050S		29	16	360	<0.2	28	31	
S 2600W-1100S		59	19	316	0.3	25	38	
S 2600W-1150S		35	15	227	0.6	13	38	
S 2600W-1200S		56	13	260	0.5	13	61	
S 2600W-1250S		31	14	148	<0.2	14	57	
S 2600W-1300S		42	15	228	1.2	16	66	
S 2600W-1350S		33	14	176	<0.2	15	50	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
S 2600W-1400S		32	16	130	<0.2	7	26	
S 2600W-1450S		40	17	208	<0.2	10	19	
S 2600W-1500S		42	13	216	<0.2	17	23	
S 2600W-1550S		50	10	1640	<0.2	7	32	
S 2600W-1600S		30	10	510	<0.2	4	24	
S 2600W-1650S		26	14	158	<0.2	4	16	
S 2600W-1700S		37	13	190	<0.2	4	35	
S 2600W-1750S		83	13	356	<0.2	5	97	
S 2600W-1800S		22	11	144	<0.2	4	12	
S 2600W-1850S		100	14	282	<0.2	5	14	
S 2600W-1900S		25	9	60	<0.2	5	8	
S 2600W-1950S		22	12	79	<0.2	7	<5	
S 2600W-2000S		12	12	48	<0.2	7	9	
S 2600W-2050S		12	11	45	<0.2	5	6	
S 2600W-2100S		18	10	68	<0.2	6	18	
S 2600W-2150S		33	10	84	0.2	8	18	
S 2600W-2200S		13	12	62	<0.2	7	8	
S 2600W-2250S		16	12	81	0.2	6	6	
S 2600W-2300S		23	12	108	0.3	7	10	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sn PPM	NOTES
S 00E 550N		3	6	29	<0.2	6		3	
S 00E 600N		4	6	7	<0.2	3		15	
S 00E 650N		4	11	79	<0.2	3		<3	
S 00E 700N		2	8	71	<0.2	3		<3	
S 00E 750N		4	12	58	<0.2	3		<3	
S 00E 800N		3	3	22	<0.2	3		<3	
S 00E 850N		7	17	46	<0.2	3		<3	
S 00E 900N		7	12	43	0.3	3		3	
S 00E 950N		2	26	17	0.3	6		7	
S 00E 1000N		2	12	55	<0.2	6		<5	
S 00E 1100N		8	19	108	<0.2	11		<5	
S 00E 1150N		2	6	16	0.2	3		6	
S 00E 1200N		4	7	36	0.3	3		8	
S 00E 1250N		2	10	20	0.2	3		8	
S 00E 1300N		4	19	125	<0.2	11		11	
S 00E 500S		5	10	61	0.2	6		6	
S 00E 550S		5	5	33	0.6	3		15	
S 00E 600S		3	8	38	<0.2	3		9	
S 00E 650S		7	12	78	<0.2	13		46	
S 00E 700S		7	8	65	<0.2	6		9	
S 00E 750S		31	18	425	0.7	7		15	
S 00E 800S		15	9	73	0.2	3		120	
S 00E 850S		7	9	68	<0.2	6		49	
S 00E 900S		6	3	103	<0.2	3		33	
S 00E 950S		9	11	82	<0.2	7		57	
S 00E 1000S		7	9	37	0.3	6		27	
S 00E 1050S		3	3	70	<0.2	3		6	
S 00E 1100S		5	10	11	<0.2	3		<5	
S 00E 1150S		3	3	27	0.2	3		7	
S 00E 1200S		10	12	37	0.3	3		14	
S 00E 1250S		8	7	61	0.2	6		16	
S 00E 1300S		24	16	36	<0.2	6		<5	
S 00E 1350S		17	6	69	<0.2	7		17	
S 00E 1400S		7	6	38	<0.2	3		17	
S 00E 1450S		20	7	88	<0.2	6		22	
S 00E 1500S		4	2	31	0.4	3		<5	
S 00E 1550S		21	6	173	<0.2	3		26	
S 00E 1600S		19	16	101	<0.2	6		21	
S 00E 1650S		21	11	173	<0.2	6		14	
S 00E 1700S		11	9	83	<0.2	6		22	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sn PPM	NOTES
S 00E 17500S		11	5	79	<0.2	3		15	
S 00E 18000S		13	16	126	<0.2	5		37	
S 00E 18500S		14	13	125	<0.2	6		36	
S 00E 19000S		12	10	172	<0.2	11		25	
S 00E 19500S		10	11	97	0.3	4		31	
S 00E 20000S		10	11	121	0.2	6		32	
S 00E 20500S		31	14	99	<0.2	11		16	
S 00E 21000S		33	13	71	<0.2	11		4	
S 00E 21500S		15	19	66	<0.2	6		6	
S 00E 22000S		12	12	64	0.3	7		9	
S 00E 22500S		5	6	46	<0.2	5		25	
S 00E 23000S		10	13	72	<0.2	6		15	
S 1200E 550S		34	13	650	2.1	16		37	
S 1200E 600S		16	11	270	0.5	6		19	
S 1200E 650S		14	9	200	0.3	6		20	
S 1200E 700S		7	11	50	0.2	3		47	
S 1200E 750S		6	2	31	<0.2	6		17	
S 1200E 800S		10	16	69	<0.2	6		86	
S 1200E 850S		16	18	150	<0.2	11		57	
S 1200E 900S		20	42	120	0.7	125		18	
S 1200E 950S		33	22	275	1.9	16		250	
S 1200E 1000S		17	20	140	0.2	18		76	
S 1200E 1050S		11	15	63	<0.2	11		42	
S 1200E 1100S		32	18	360	<0.2	70		64	
S 1200E 1150S		12	11	81	<0.2	18		42	
S 1200E 1200S		26	23	217	0.3	32		37	
S 1200E 1250S		27	18	131	<0.2	24		29	
S 1200E 1300S		32	21	218	0.3	28		31	
S 1200E 1350S		17	18	92	0.1	3		32	
S 1200E 1400S		19	17	97	0.2	6		41	
S 1200E 1450S		26	17	92	<0.2	14		34	
S 1200E 1500S		22	7	78	0.3	5		11	
S 1200E 1550S		38	15	161	<0.2	11		47	
S 1200E 1600S		35	21	170	0.4	15		44	
S 1200E 1650S		33	11	140	<0.2	11		125	
S 1200E 1700S		40	12	200	<0.2	11		52	
S 1200E 1750S		17	5	55	<0.2	6		25	
S 1200E 1800S		25	9	90	<0.2	11		42	
S 1200E 1850S		9	5	24	<0.2	6		11	
S 1200E 1900S		22	8	76	<0.2	6		13	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sn PPM	NOTES
S 1200E 1950S		23	11	71	<0.2	11		22	
S 1200E 2000S		6	2	12	<0.2	6		<5	
S 1200E 2050S		17	10	35	<0.2	11		15	
S 1200E 2100S		11	11	41	<0.2	11		10	
S 1200E 2150S		18	14	44	<0.2	12		11	
S 1200E 2200S		18	15	30	0.3	11		5	
S 1200E 2250S		19	13	48	<0.2	11		6	
S 1200E 2300S		16	14	39	<0.2	11		11	
S 200W 550N		5	17	32	0.2	6		6	
S 200W 600N		1	7	31	0.2	3		<5	
S 200W 650N		3	18	35	<0.2	6		<5	
S 200W 700N		3	6	27	<0.2	4		<5	
S 200W 750N		6	12	36	0.2	6		<5	
S 200W 800N		4	7	30	<0.2	6		<5	
S 200W 850N		5	8	27	<0.2	6		<5	
S 200W 900N		7	23	31	<0.2	6		<5	
S 200W 950N		7	33	44	0.6	7		<5	
S 200W 1000N		6	22	52	0.3	18		11	
S 200W 1050N		2	31	33	0.2	8		<5	
S 200W 1100N		12	38	61	<0.2	8		<5	
S 200W 1150N		5	25	74	<0.2	11		7	
S 200W 1200N		13	21	120	0.2	7		<5	
S 200W 1250N		28	24	82	<0.2	12		<5	
S 200W 1300N		5	8	18	<0.2	6		<5	
S 200W 200S		3	12	84	0.2	7		10	
S 200W 250S		5	9	56	<0.2	8		5	
S 200W 300S		7	11	51	<0.2	10		11	
S 200W 350S		9	23	70	<0.2	15		12	
S 200W 400S		12	17	110	0.4	7		27	
S 200W 450S		15	11	278	0.8	14		16	
S 200W 500S		23	16	211	<0.2	7		15	
S 200W 550S		2	7	19	<0.2	8		15	
S 200W 600S		3	5	32	<0.2	7		14	
S 200W 650S		3	12	37	<0.2	8		18	
S 200W 700S		7	12	36	<0.2	8		<5	
S 200W 1050S		2	7	28	<0.2	6		12	
S 200W 1100S		20	44	61	0.2	11		<5	
S 200W 1150S		5	12	63	<0.2	6		17	
S 200W 1200S		6	14	89	<0.2	6		23	
S 200W 1250S		2	18	13	<0.2	3		<5	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sn PPM	NOTES
S 200W 1300S		7	17	60	0.2	6		10	
S 200W 1350S		10	7	38	<0.2	6		21	
S 200W 1400S		13	44	77	0.2	8		16	
S 200W 1450S		15	14	67	<0.2	7		14	
S 200W 1500S		24	13	96	0.2	11		13	
S 200W 1550S		12	3	47	0.2	6		23	
S 200W 1600S		17	11	140	0.2	6		16	
S 200W 1650S		7	9	47	0.2	8		17	
S 200W 1700S		9	3	50	<0.2	3		23	
S 200W 1750S		12	7	88	<0.2	6		19	
S 200W 1800S		13	9	125	<0.2	6		23	
S 200W 1900S		9	11	74	<0.2	6		54	
S 200W 1950S		17	16	130	<0.2	41		21	
S 200W 2000S		15	11	65	<0.2	7		19	
S 200W 2050S		18	14	75	<0.2	8		17	
S 200W 2100S		16	13	65	<0.2	11		15	
S 200W 2150S		10	18	44	<0.2	6		14	
S 200W 2200S		12	11	73	<0.2	11		16	
S 200W 2250S		15	11	64	0.2	8		13	
S 200W 2300S		11	14	52	<0.2	6		12	
S 400W 550N		5	36	63	0.3	34		<5	
S 400W 600N		2	12	25	<0.2	6		<5	
S 400W 650N		2	9	20	<0.2	6		16	
S 400W 700N		1	12	60	0.3	6		<5	
S 400W 750N		6	14	44	<0.2	6		<5	
S 400W 800N		5	17	71	0.2	6		<5	
S 400W 850N		6	8	32	0.2	6		9	
S 400W 900N		1	11	71	<0.2	17		<5	
S 400W 950N		3	13	33	0.3	7		<5	
S 400W 1000N		8	23	38	<0.2	16		<5	
S 400W 1050N		2	19	41	0.2	8		<5	
S 400W 1100N		4	21	33	<0.2	11		<5	
S 400W 1150N		4	17	26	<0.2	11		<5	
S 400W 1200N		5	20	27	0.3	11		16	
S 400W 1250N		4	12	30	0.3	7		6	
S 400W 1300N		4	13	26	0.3	6		12	
S 600W 00N		1	7	59	<0.2	3		6	
S 600W 50N		1	3	9	<0.2	3		<5	
S 600W 100N		2	8	19	<0.2	3		5	
S 600W 150N		2	16	15	<0.2	6		<5	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sb PPM	NOTES
S 600W 200N		7	22	66	<0.2	17		9	
S 600W 250N		3	7	28	<0.2	6		<5	
S 600W 300N		10	15	36	<0.2	11		<5	
S 600W 350N		3	27	58	<0.2	21		12	
S 600W 400N		5	10	46	<0.2	11		8	
S 600W 450N		2	13	28	<0.2	5		<5	
S 600W 500N		4	17	43	<0.2	7		9	
S 600W 550N		5	11	28	<0.2	11		8	
S 600W 600N		5	11	28	<0.2	11		9	
S 600W 650N		45	77	400	0.2	130		7	
S 600W 700N		5	16	32	<0.2	24		<5	
S 600W 750N		5	11	20	<0.2	8		<5	
S 600W 800N		7	25	60	0.6	16		<5	
S 600W 850N		2	2	8	<0.2	3		6	
S 600W 900N		4	11	13	<0.2	6		6	
S 600W 950N		5	26	16	<0.2	8		12	
S 600W 1000N		12	28	61	0.2	22		<5	
S 600W 1050N		8	25	35	0.4	11		8	
S 600W 1100N		9	27	31	0.6	17		<5	
S 600W 1150N		12	30	39	0.2	16		5	
S 600W 1200N		7	14	28	<0.2	4		<5	
S 600W 1250N		5	13	16	0.2	3		<5	
S 600W 1300N		8	18	46	<0.2	6		<5	
S 600W 50S		10	28	270	1.3	7		<5	
S 600W 100S		7	11	110	0.4	5		<5	
S 600W 150S		3	18	50	<0.2	7		14	
S 600W 200S		3	10	42	<0.2	12		11	
S 600W 250S		3	30	120	0.4	13		10	
S 600W 300S		3	17	51	0.2	11		11	
S 600W 350S		2	17	32	0.4	7		11	
S 600W 400S		7	11	36	<0.2	11		26	
S 600W 450S		12	21	110	<0.2	26		28	
S 600W 00N		2	6	15	0.3	3		6	
S 600W 50N		2	33	60	0.2	11		11	
S 600W 100N		2	15	35	<0.2	6		6	
S 600W 150N		3	18	64	0.4	11		<5	
S 600W 200N		5	13	52	0.4	6		14	
S 600W 250N		1	13	56	0.2	3		<5	
S 600W 300N		3	28	60	<0.2	17		5	
S 600W 350N		6	21	52	<0.2	21		10	

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SAMPLE NUMBER / ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sn PPM	NOTES
S 800W 400N	6	22	44	0.2	19		16	
S 800W 450N	5	117	50	0.7	8		<5	
S 800W 500N	6	18	44	<0.2	8		<5	
S 800W 550N	6	14	47	<0.2	6		<5	
S 800W 600N	6	19	48	<0.2	8		<5	
S 800W 650N	7	19	50	0.2	19		<5	
S 800W 700N	5	8	37	<0.2	7		8	
S 800W 750N	12	30	64	<0.2	11		<5	
S 800W 800N	6	45	20	0.3	6		<5	
S 800W 850N	6	28	44	<0.2	11		<5	
S 800W 900N	5	30	24	<0.2	6		<5	
S 800W 950N	8	16	50	<0.2	6		<5	
S 800W 1000N	7	40	46	0.3	11		<5	
S 800W 1050N	6	25	48	0.3	11		<5	
S 800W 1100N	4	11	33	<0.2	7		<5	
S 800W 1150N	4	11	30	<0.2	6		<5	
S 800W 1200N	4	18	34	0.4	41		<5	
S 800W 1250N	4	13	36	<0.2	11		6	
S 800W 1300N	3	44	52	<0.2	21		7	
S 800W 50S	1	3	23	0.2	3		<5	
S 800W 100S	7	19	60	0.2	12		32	
S 800W 150S	8	18	85	<0.2	21		15	
S 800W 200S	4	18	48	<0.2	8		<5	
S 800W 250S	7	13	87	0.2	11		34	
S 800W 300S	5	15	67	0.4	11		13	
S 800W 350S	15	47	226	<0.2	22		21	
S 800W 400S	4	3	23	<0.2	3		36	
S 800W 450S	9	33	150	0.7	21		8	
S 800W 500S	12	18	170	0.4	19		64	
S 1000W 550S	3	12	50	<0.2	11		28	
S 1000W 600S	4	7	20	0.2	3		44	
S 1000W 650S	2	12	11	<0.2	3		28	
S 1000W 700S	5	12	17	0.3	3		22	
S 1000W 750S	6	2	21	0.4	3		30	
S 1000W 800S	24	9	110	0.3	3		16	
S 1000W 850S	10	5	44	0.2	3		26	
S 1000W 900S	9	12	56	<0.2	3		43	
S 1000W 950S	20	20	200	<0.2	11		60	
S 1000W 1000S	3	5	20	<0.2	3		17	
S 1000W 1050S	25	18	350	<0.2	13		60	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sn PPM	NOTES
S 1000W 1100S		7	16	76	<0.2	9		34	
S 1000W 1150S		25	29	120	0.4	6		14	
S 1000W 1200S		25	17	210	<0.2	11		17	
S 1000W 1250S		17	12	135	<0.2	4		14	
S 1000W 1300S		14	14	65	0.3	7		22	
S 1000W 1350S		10	12	40	<0.2	6		5	
S 1000W 1400S		22	16	86	<0.2	7		17	
S 1000W 1450S		14	7	60	<0.2	3		13	
S 1000W 1500S		10	2	12	<0.2	3		27	
S 1000W 1550S		19	14	98	<0.2	18		13	
S 1000W 1600S		12	8	64	<0.2	6		8	
S 1000W 1650S		23	11	120	<0.2	11		115	
S 1000W 1700S		12	9	90	0.2	8		27	
S 1000W 1750S		12	5	38	0.3	5		12	
S 1000W 1800S		12	7	51	<0.2	6		8	
S 1000W 1850S		7	2	12	<0.2	3		20	
S 1000W 1900S		3	2	5	<0.2	3		<5	
S 1000W 1950S		14	7	40	<0.2	3		5	
S 1000W 2000S		5	6	8	<0.2	3		21	
S 1000W 2050S		6	5	12	<0.2	3		16	
S 1000W 2100S		31	20	72	<0.2	15		17	
S 1000W 2150S		27	11	60	0.4	13		8	
S 1000W 2200S		20	13	30	<0.2	15		9	
S 1000W 2250S		49	15	70	1.0	6		10	
S 1000W 2300S		16	10	21	<0.2	11		12	
S 1200W 00N		1	6	20	0.2	3		9	
S 1200W 50N		3	7	23	<0.2	3		28	
S 1200W 100N		7	16	87	0.2	11		17	
S 1200W 150N		8	29	136	0.6	13		7	
S 1200W 200N		3	14	42	<0.2	6		15	
S 1200W 250N		6	16	65	<0.2	11		6	
S 1200W 300N		7	26	120	<0.2	16		11	
S 1200W 350N		7	24	73	<0.2	16		7	
S 1200W 400N		5	22	65	0.2	13		8	
S 1200W 450N		5	18	40	<0.2	14		14	
S 1200W 500N		5	16	28	0.4	15		<5	
S 1200W 550N		4	44	28	0.5	11		7	
S 1200W 600N		6	18	33	<0.2	6		<5	
S 1200W 650N		5	33	52	0.3	14		14	
S 1200W 700N		5	17	50	<0.2	15		6	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sn PPM	NOTES
S 1200W 750N		4	26	74	<0.2	11		<5	
S 1200W 800N		5	33	41	<0.2	12		<5	
S 1200W 850N		7	28	56	0.2	11		8	
S 1200W 900N		7	43	54	0.2	25		7	
S 1200W 950N		8	36	72	<0.2	15		<5	
S 1200W 1000N		9	15	60	<0.2	6		<5	
S 1200W 1050N		8	16	53	<0.2	6		<5	
S 1200W 1100N		5	14	44	<0.2	6		<5	
S 1200W 1150N		5	15	33	<0.2	6		<5	
S 1200W 1200N		5	12	32	<0.2	7		<5	
S 1200W 1250N		5	23	50	<0.2	12		<5	
S 1200W 1300N		6	14	40	<0.2	7		<5	
S 1200W 50S		10	15	90	<0.2	32		12	
S 1200W 100S		5	15	52	<0.2	7		17	
S 1200W 150S		3	18	40	<0.2	14		<5	
S 1200W 200S		5	12	12	<0.2	6		29	
S 1200W 250S		8	21	116	0.4	24		<5	
S 1200W 300S		19	24	286	0.8	31		32	
S 1200W 350S		29	25	450	0.4	22		25	
S 1200W 400S		19	23	278	0.2	21		43	
S 1200W 450S		6	18	94	<0.2	8		6	
S 1200W 500S		5	16	64	<0.2	6		37	
S 1400W 00N		2	10	26	<0.2	6		11	
S 1400W 50N		23	24	82	<0.2	11		46	
S 1400W 100N		6	16	98	<0.2	12		8	
S 1400W 150N		7	31	88	0.2	21		7	
S 1400W 200N		2	4	7	<0.2	3		21	
S 1400W 250N		4	24	78	<0.2	15		<5	
S 1400W 300N		1	7	10	<0.2	3		<5	
S 1400W 350N		2	7	40	<0.2	4		13	
S 1400W 400N		4	14	26	<0.2	6		9	
S 1400W 450N		3	21	46	0.2	6		<5	
S 1400W 500N		6	29	69	<0.2	15		10	
S 1400W 550N		6	26	52	<0.2	24		<5	
S 1400W 600N		7	28	28	0.2	6		<5	
S 1400W 650N		5	18	35	0.2	6		6	
S 1400W 700N		1	5	13	0.2	3		<5	
S 1400W 750N		2	12	41	0.2	6		<5	
S 1400W 800N		3	11	69	<0.2	14		6	
S 1400W 850N		6	17	76	<0.2	18		<5	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sn PPM	NOTES
S 1400W 900N		1	11	56	<0.2	13		7	
S 1400W 950N		5	22	24	<0.2	11		<5	
S 1400W 1000N		6	18	41	<0.2	13		<5	
S 1400W 1050N		6	12	41	<0.2	11		<5	
S 1400W 1100N		6	10	33	<0.2	3		8	
S 1400W 1150N		7	40	56	0.5	11		<5	
S 1400W 1200N		7	13	46	<0.2	6		<5	
S 1400W 1250N		6	20	45	<0.2	8		<5	
S 1400W 1300N		3	35	39	<0.2	11		7	
S 1400W 50S		5	21	53	<0.2	11		<5	
S 1400W 100S		6	27	86	0.3	19		9	
S 1400W 150S		8	22	90	0.3	14		13	
S 1400W 200S		7	22	96	<0.2	11		12	
S 1400W 250S		16	32	170	0.2	38		<5	
S 1400W 300S		9	10	82	0.2	11		26	
S 1400W 350S		22	28	410	0.3	31		140	
S 1400W 400S		24	44	430	0.2	21		42	
S 1400W 450S		4	6	37	<0.2	6		50	
S 1400W 500S		4	9	48	<0.2	6		75	
S 1600W 00N		4	13	72	0.4	7		<5	
S 1600W 50N		2	10	30	0.2	6		<5	
S 1600W 100N		4	13	42	<0.2	6		<5	
S 1600W 150N		9	15	49	<0.2	11		9	
S 1600W 200N		6	11	36	<0.2	8		21	
S 1600W 250N		6	8	10	<0.2	6		8	
S 1600W 300N		5	3	13	<0.2	3		9	
S 1600W 350N		10	22	32	0.4	11		7	
S 1600W 400N		3	3	13	<0.2	3		8	
S 1600W 450N		1	3	10	<0.2	3		<5	
S 1600W 500N		2	13	33	<0.2	3		<5	
S 1600W 550N		12	70	68	0.2	12		6	
S 1600W 600N		4	14	56	<0.2	12		<5	
S 1600W 650N		4	16	20	<0.2	6		13	
S 1600W 700N		3	31	32	0.2	11		<5	
S 1600W 750N		6	13	36	<0.2	8		7	
S 1600W 800N		6	21	42	0.2	11		<5	
S 1600W 850N		6	35	51	<0.2	26		17	
S 1600W 900N		6	25	85	<0.2	31		<5	
S 1600W 950N		4	20	36	<0.2	18		<5	
S 1600W 1000N		3	11	20	<0.2	18		<5	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sb PPM	NOTES
S 1600W 1050N		8	41	50	<0.2	31		<5	
S 1600W 1100N		7	14	54	<0.2	11		<5	
S 1600W 1150N		3	16	24	0.4	11		8	
S 1600W 1200N		6	23	44	<0.2	11		<5	
S 1600W 1250N		6	16	38	0.2	6		<5	
S 1600W 1300N		7	12	40	<0.2	6		<5	
S 1600W 50S		1	3	16	<0.2	3		14	
S 1600W 100S		3	13	72	<0.2	9		16	
S 1600W 150S		6	13	194	<0.2	21		11	
S 1600W 200S		4	6	21	<0.2	3		6	
S 1600W 250S		11	34	192	0.3	6		7	
S 1600W 300S		21	34	600	0.3	11		39	
S 1600W 350S		18	58	320	0.2	11		55	
S 1600W 400S		12	17	178	<0.2	11		58	
S 1600W 450S		13	23	324	0.3	17		39	
S 1600W 500S		19	44	410	1.5	11		110	
S 1600W 550S		33	28	480	1.0	170		43	
S 1600W 600S		27	31	430	0.8	170		44	
S 1600W 650S		21	12	132	0.2	25		97	
S 1600W 700S		13	6	48	0.3	6		105	
S 1600W 750S		23	10	60	0.5	11		29	
S 1600W 800S		54	21	500	<0.2	42		54	
S 1600W 850S		9	13	50	0.2	15		43	
S 1600W 900S		8	8	32	<0.2	6		80	
S 1600W 950S		12	11	92	0.2	6		41	
S 1600W 1000S		21	9	104	0.2	6		78	
S 1600W 1050S		22	17	44	1.8	6		22	
S 1600W 1100S		33	38	178	0.5	21		27	
S 1600W 1150S		15	17	68	<0.2	12		54	
S 1600W 1200S		22	21	84	<0.2	14		46	
S 1600W 1250S		16	17	48	0.5	11		46	
S 1600W 1300S		50	22	120	0.3	16		64	
S 1600W 1350S		45	20	84	0.2	21		62	
S 1600W 1400S		39	16	72	0.2	11		44	
S 1600W 1450S		69	20	188	<0.2	12		30	
S 1600W 1500S		25	11	40	0.8	7		21	
S 1600W 1550S		8	11	22	<0.2	6		18	
S 1600W 1600S		37	12	52	0.2	12		38	
S 1600W 1650S		31	7	56	0.2	11		32	
S 1600W 1700S		48	15	86	0.4	12		53	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sn PPM	NOTES
S 1600W 1750S		51	7	92	<0.2	11		22	
S 1600W 1800S		69	14	184	0.2	13		37	
S 1600W 1850S		33	6	73	<0.2	11		17	
S 1600W 1900S		45	8	93	<0.2	23		18	
S 1600W 1950S		47	11	148	0.2	11		18	
S 1600W 2000S		25	11	89	<0.2	7		<5	
S 1600W 2050S		34	15	110	<0.2	31		8	
S 1600W 2100S		20	12	49	<0.2	6		<5	
S 2200W 500S		22	33	92	0.4	35		67	
S 2200W 550S		17	49	156	0.5	35		47	
S 2200W 600S		7	30	116	0.2	17		43	
S 2200W 650S		12	20	84	<0.2	11		26	
S 2200W 700S		11	21	60	0.3	11		18	
S 2200W 750S		27	20	400	0.8	21		88	
S 2200W 800S		40	16	200	0.4	12		100	
S 2200W 850S		33	19	253	0.4	11		57	
S 2200W 900S		20	16	77	0.2	8		45	
S 2200W 950S		36	15	179	0.2	11		39	
S 2200W 1000S		62	16	140	<0.2	11		105	
S 2200W 1050S		46	29	150	0.3	11		32	
S 2200W 1100S		28	24	82	0.8	17		36	
S 2200W 1150S		32	19	88	0.4	11		37	
S 2200W 1200S		85	47	154	0.5	21		83	
S 2200W 1250S		75	31	168	0.6	19		79	
S 2200W 1300S		77	15	117	0.5	11		70	
S 2200W 1350S		19	13	54	<0.2	6		38	
S 2200W 1400S		34	13	98	0.3	13		15	
S 2200W 1450S		35	11	73	0.3	5		30	
S 2200W 1500S		37	11	106	1.0	6		24	
S 2200W 1550S		39	13	76	<0.2	4		26	
S 2200W 1600S		51	12	160	<0.2	11		43	
S 2200W 1650S		69	11	154	<0.2	11		25	
S 2200W 1700S		34	10	108	0.4	6		34	
S 2200W 1750S		40	10	215	<0.2	6		71	
S 2200W 1800S		33	9	146	<0.2	4		69	
S 2200W 1850S		72	12	460	0.4	11		89	
S 2200W 1900S		55	14	246	<0.2	11		49	
S 2200W 1950S		45	17	246	<0.2	11		14	
S 2200W 2000S		45	18	146	<0.2	11		25	
S 2200W 2050S		15	13	58	<0.2	6		8	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sb PPM	NOTES
S 2200W 2100S		29	12	66	<0.2	6		<5	
S 2200W 2150S		37	16	86	<0.2	10		13	
S 2200W 2200S		36	14	87	<0.2	7		15	
S 2200W 2250S		23	9	106	<0.2	6		10	
S 2200W 2300S		15	19	80	0.2	6		<5	
S 2400S 550S		12	25	92	0.2	15		19	
S 2400W 600S		27	23	286	0.7	21		33	
S 2400W 650S		12	17	144	0.3	11		19	
S 2400W 700S		16	16	228	0.4	11		13	
S 2400W 750S		22	18	336	0.2	11		27	
S 2400W 800S		16	14	198	<0.2	6		12	
S 2400W 850S		13	11	144	0.4	6		8	
S 2400W 900S		25	12	93	0.6	7		15	
S 2400W 950S		50	12	120	0.5	11		27	
S 2400W 1000S		39	15	94	0.3	11		28	
S 2400W 1050S		55	12	110	0.6	11		30	
S 2400W 1100S		44	13	128	0.8	11		38	
S 2400W 1150S		32	24	154	0.7	11		13	
S 2400W 1200S		56	19	120	0.5	11		21	
S 2400W 1250S		28	17	142	0.5	6		29	
S 2400W 1300S		39	15	108	0.2	7		27	
S 2400W 1350S		42	12	90	0.3	6		37	
S 2400W 1400S		32	13	137	0.4	6		22	
S 2400W 1450S		55	14	137	<0.2	6		30	
S 2400W 1500S		63	14	146	<0.2	13		47	
S 2400W 1550S		42	8	215	0.2	6		57	
S 2400W 1600S		33	14	168	<0.2	6		34	
S 2400W 1650S		84	9	600	<0.2	6		60	
S 2400W 1700S		24	13	224	0.2	6		12	
S 2400W 1750S		24	12	152	<0.2	6		37	
S 2400W 1800S		167	20	372	<0.2	6		69	
S 2400W 1850S		27	12	172	<0.2	6		9	
S 2400W 1900S		28	12	150	<0.2	7		8	
S 2400W 1950S		34	12	96	<0.2	8		13	
S 2400W 2000S		31	12	64	<0.2	18		8	
S 2400W 2050S		27	13	59	<0.2	11		9	
S 2400W 2100S		16	10	50	<0.2	6		<5	
S 2400W 2150S		57	16	88	<0.2	6		<5	
S 2400W 2200S		25	10	42	0.2	6		9	
S 2400W 2250S		20	14	74	<0.2	11		9	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sb PPM	NOTES
S 2400W 2300S		27	17	90	<0.2	12		6	
S 2600W 00N		5	14	32	0.2	3		16	
S 2600W 50N		5	13	52	<0.2	6		<5	
S 2600W 100N		4	22	40	<0.2	8		<5	
S 2600W 150N		7	15	51	1.3	6		<5	
S 2600W 200N		3	7	34	<0.2	6		<5	
S 2600W 250N		7	18	68	<0.2	7		<5	
S 2600W 300N		7	17	26	<0.2	3		<5	
S 2600W 350N		3	14	28	<0.2	12		<5	
S 2600W 400N		4	12	22	<0.2	6		10	
S 2600W 450N		6	6	34	<0.2	3		<5	
S 2600W 500N		4	10	37	0.2	6		<5	
S 2600W 550N		8	28	96	0.2	11		<5	
S 2600W 600N		9	14	54	0.2	6		<5	
S 2600W 650N		6	18	44	<0.2	11		<5	
S 2600W 700N		5	26	25	0.3	6		<5	
S 2600W 750N		7	28	72	<0.2	6		5	
S 2600W 800N		15	24	53	0.2	3		<5	
S 2600W 850N		4	13	53	<0.2	4		<5	
S 2600W 900N		6	12	42	<0.2	3		<5	
S 2600W 950N		7	30	79	0.2	15		<5	
S 2600W 1000N		5	26	56	<0.2	7		<5	
S 2600W 1050N		6	12	60	<0.2	6		<5	
S 2600W 1100N		7	20	34	<0.2	6		<5	
S 2600W 1150N		9	29	66	<0.2	10		<5	
S 2600W 1250N		7	12	32	<0.2	3		<5	
S 2600W 1300N		5	21	46	<0.2	7		<5	
S 2600W 50S		67	51	329	0.6	15		135	
S 2600W 100S		14	30	164	0.2	6		110	
S 2600W 150S		38	44	282	0.6	7		135	
S 2600W 250S		34	22	186	0.3	6		51	
S 2600W 300S		39	44	314	0.4	11		55	
S 2600W 350S		71	36	340	0.6	12		58	
S 2600S 400S		36	28	236	<0.2	28		32	
S 2600S 450S		21	20	170	<0.2	7		23	
S 2600S 500S		11	14	190	<0.2	7		27	
T 1200W 1610S		38	12	163	<0.2	7		26	
R 1650W 660S		6	35	92	2.0	205	15	10	
R 1660W 665S		97	27	720	1.8	> 1000	160	13	
R 1740 4805		740	1465	2000	24.0	155	<5	35	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sn PPM	NOTES
S 200E-550N		8	17	480	0.2	16		7	
S 200E-600N		4	7	29	<0.2	3		<5	
S 200E-650N		7	21	56	<0.2	18		6	
S 200E-700N		2	8	77	<0.2	2		<5	
S 200E-750N		2	7	12	<0.2	2		<5	
S 200E-800N		2	6	19	<0.2	2		<5	
S 200E-850N		3	11	21	<0.2	2		<5	
S 200E-900N		4	11	7	<0.2	2		7	
S 200E-1050N		1	7	15	<0.2	2		<5	
S 200E-1100N		3	14	35	<0.2	13		7	
S 200E-1150N		8	31	430	0.4	60		<5	
S 200E-1200N		4	28	95	0.7	19		8	
S 200E-1300N		2	14	63	0.2	3		12	
S 600W-550S		3	8	15	<0.2	2		18	
S 600W-600S		3	4	5	0.2	2		14	
S 600W-650S		6	7	22	<0.2	2		96	
S 600W-700S		8	10	29	<0.2	5		10	
S 600W-750S		6	10	18	<0.2	3		10	
S 600W-800S		9	13	49	<0.2	6		33	
S 600W-850S		14	11	53	<0.2	6		28	
S 600W-900S		9	14	41	<0.2	4		30	
S 600W-950S		10	18	105	<0.2	6		12	
S 600W-1000S		15	19	112	<0.2	13		22	
S 600W-1050S		6	9	13	0.2	2		17	
S 600W-1100S		10	12	37	<0.2	5		75	
S 600W-1150S		24	18	105	<0.2	8		71	
S 600W-1200S		38	42	263	0.6	20		22	
S 600W-1250S		16	17	58	0.4	5		46	
S 600W-1300S		11	12	49	<0.2	4		45	
S 600W-1350S		19	11	120	<0.2	5		45	
S 600W-1400S		20	15	139	<0.2	8		47	
S 600W-1450S		13	14	69	<0.2	7		31	
S 600W-1500S		6	4	17	<0.2	2		8	
S 600W-1550S		8	6	28	<0.2	3		37	
S 600W-1600S		19	10	187	<0.2	5		47	
S 600W-1650S		14	10	160	<0.2	3		37	
S 600W-1700S		7	8	72	<0.2	2		18	
S 600W-1750S		15	12	90	0.2	7		26	
S 600W-1800S		14	17	105	0.2	6		25	
S 600W-1850S		15	16	88	0.2	9		14	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sn PPM	NOTES
S 600W-1700S		15	20	77	0.3	28		<5	
S 600W-1750S		6	6	61	<0.2	2		10	
S 600W-1800S		36	33	83	0.4	7		<5	
S 600W-1850S		70	12	61	0.4	5		<5	
S 600W-1900S		10	10	42	0.2	4		10	
S 600W-1950S		14	13	68	<0.2	7		15	
S 600W-2000S		32	17	57	<0.2	15		<5	
S 600W-2050S		9	5	38	<0.2	3		5	
S 600W-2100S		14	8	42	<0.2	5		19	
S 600E-550N		6	16	36	<0.2	24		33	
S 500E-600N		6	13	100	<0.2	19		<5	
S 600E-650N		17	34	100	0.8	78		23	
S 600E-700N		9	15	55	0.4	13		25	
S 600E-750N		8	15	82	0.4	12		27	
S 600E-800N		5	17	65	0.2	9		35	
S 600E-850N		6	16	123	0.2	8		8	
S 600E-900N		4	15	40	<0.2	5		<5	
S 600E-950N		7	15	32	0.4	8		11	
S 600E-1000N		8	25	65	0.3	15		<5	
S 600E-1050N		7	27	82	<0.2	7		<5	
S 600E-1100N		5	20	55	0.2	12		<5	
S 600E-1150N		3	14	60	0.2	6		6	
S 600E-1200N		9	21	50	0.3	17		7	
S 600E-1250N		4	6	32	<0.2	2		<5	
S 600E-1300N		8	10	28	0.2	5		6	
S 600W-1100S		11	15	73	<0.2	8		28	
S 600W-1150S		3	11	34	0.2	3		8	
S 600W-1200S		7	17	61	<0.2	6		17	
S 600W-1250S		4	8	44	<0.2	3		11	
S 600W-1300S		24	8	41	<0.2	5		28	
S 600W-1350S		17	11	59	<0.2	7		16	
S 600W-1400S		27	17	111	<0.2	12		33	
S 600W-1450S		43	13	103	<0.2	12		113	
S 600W-1500S		28	16	205	<0.2	8		28	
S 600W-1600S		21	16	117	<0.2	22		45	
S 600W-1650S		26	21	220	<0.2	14		52	
S 600W-1700S		28	23	207	<0.2	13		28	
S 600W-1750S		56	9	110	<0.2	10		64	
S 600W-1800S		24	13	156	<0.2	8		51	
S 600W-1850S		43	14	110	<0.2	12		46	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sn PPM	NOTES
S 800W-1300S		10	4	75	<0.2	3		15	
S 800W-1350S		24	14	203	<0.2	11		35	
S 800W-1400S		15	6	172	<0.2	12		44	
S 800W-1450S		12	7	145	<0.2	16		46	
S 800W-1500S		13	13	157	0.2	10		29	
S 800W-1550S		11	14	129	0.4	7		27	
S 800W-1600S		11	12	105	<0.2	8		16	
S 800W-1650S		21	15	120	0.3	13		39	
S 800W-1700S		14	9	65	<0.2	7		30	
S 800W-1750S		15	10	78	<0.2	8		10	
S 800W-1800S		16	6	75	<0.2	6		11	
S 800W-1850S		8	5	16	<0.2	3		13	
S 800W-1900S		15	9	31	<0.2	5		22	
S-800W-1950S		5	7	8	<0.2	2		13	
S 800W-2000S		11	6	22	<0.2	6		13	
S 800W-2050S		23	11	52	0.3	6		10	
S 800W-2100S		17	13	30	<0.2	8		11	
S 800W-2150S		14	6	20	<0.2	10		11	
S 800W-2200S		23	12	76	<0.2	6		9	
S 800W-2250S		26	18	56	<0.2	18		8	
S 800W-2300S		24	15	55	<0.2	14		6	
S 1000E-600N		9	21	97	1.9	2		10	
S 1000E-650N		3	6	30	0.5	3		11	
S 1000E-700N		10	11	71	0.2	12		20	
S 1000E-750N		7	12	68	<0.2	3		6	
S 1000E-800N		4	11	33	<0.2	3		17	
S 1000E-850N		3	9	18	0.2	3		8	
S 1000E-900N		3	17	24	<0.2	3		6	
S 1000E-950N		3	17	40	<0.2	8		<5	
S 1000E-1000N		6	14	73	<0.2	3		<5	
S 1000E-1050N		4	7	23	<0.2	3		7	
S 1000E-1100N		8	15	65	0.2	10		<5	
S 1000E-1150N		3	7	23	<0.2	2		<5	
S 1000E-1200N		6	19	42	<0.2	6		<5	
S 1000E-1250N		5	15	35	0.2	7		<5	
S 1000E-1300N		5	7	15	<0.2	5		<5	
S 1000E-550S		21	24	123	1.0	45		27	
S 1000E-600S		10	27	213	1.2	18		<5	
S 1000E-650S		104	39	1830	1.0	120		16	
S 1000E-700S		36	20	550	0.8	110		16	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sn PPM	NOTES
S 1000E-750S		13	15	140	0.2	14		40	
S 1000E-800S		36	16	530	0.6	60		64	
S 1000E-850S		5	2	27	<0.2	2		<5	
S 1000E-900S		10	12	92	<0.2	10		60	
S 1000E-950S		8	5	24	0.2	4		35	
S 1000E-1000S		3	7	16	<0.2	6		30	
S 1000E-1050S		9	12	105	0.3	16		27	
S 1000E-1100S		6	15	78	0.3	32		25	
S 1000E-1150S		5	4	40	<0.2	5		19	
S 1000E-1200S		4	4	55	<0.2	8		15	
S 1000E-1250S		4	11	45	0.2	5		20	
S 1000E-1300S		7	6	105	<0.2	10		16	
S 1000E-1350S		4	4	42	<0.2	5		52	
S 1000E-1400S		5	8	62	<0.2	3		72	
S 1000E-1450S		14	23	283	<0.2	8		150	
S 1000E-1500S		6	6	67	<0.2	5		26	
S 1000E-1550S		12	10	177	0.5	8		54	
S 1000E-1600S		4	5	20	0.2	5		36	
S 1000E-1650S		6	6	72	<0.2	4		68	
S 1000E-1700S		13	22	152	0.2	8		55	
S 1000E-1750S		8	16	104	<0.2	10		46	
S 1000E-1800S		7	18	97	0.5	5		13	
S 1000E-1850S		8	13	95	0.2	4		46	
S 1000E-1900S		4	2	25	<0.2	2		14	
S 1000E-1950S		10	13	129	0.3	8		39	
S 1000E-2000S		6	7	60	<0.2	5		29	
S 1000E-2050S		5	6	47	<0.2	3		25	
S 1000E-2100S		6	17	101	<0.2	3		17	
S 1000E-2150S		5	9	42	<0.2	4		49	
S 1000E-2200S		6	11	73	<0.2	4		17	
S 1000E-2250S		8	15	117	<0.2	6		18	
S 1000E-2300S		10	14	81	<0.2	6		9	
S 1000W-000		2	15	23	0.7	3		6	
S 1000W-50N		2	5	36	0.2	3		7	
S 1000W-100N		6	15	74	0.4	7		34	
S 1000W-150N		8	24	43	0.5	6		18	
S 1000W-200N		2	2	10	<0.2	2		13	
S 1000W-250N		6	13	62	<0.2	10		7	
S 1000W-300N		6	17	55	<0.2	15		13	
S 1000W-350N		9	41	64	0.6	12		<5	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sb PPM	NOTES
S 1000W-400N		6	20	42	<0.2	6		3	
S 1000W-450N		10	31	90	0.4	10		5	
S 1000W-500N		12	50	70	0.6	17		6	
S 1000W-550N		2	14	18	<0.2	3		<5	
S 1000W-600N		6	24	53	0.3	7		<5	
S 1000W-650N		6	14	52	0.3	7		6	
S 1000W-700N		9	32	53	0.3	8		<5	
S 1000W-750N		7	25	37	<0.2	8		<5	
S 1000W-800N		4	56	28	0.3	6		<5	
S 1000W-850N		8	27	31	1.2	6		<5	
S 1000W-900N		2	9	10	<0.2	2		<5	
S 1000W-950N		6	10	31	<0.2	3		<5	
S 1000W-1000N		8	18	55	<0.2	6		<5	
S 1000W-1050N		8	17	49	<0.2	5		<5	
S 1000W-1100N		12	21	58	<0.2	13		11	
S 1000W-1150N		6	36	61	<0.2	10		<5	
S 1000W-1200N		6	16	33	0.5	8		<5	
S 1000W-1250N		10	38	128	0.4	14		<5	
S 1000W-1300N		8	22	41	<0.2	12		6	
S 1000W-50S		4	18	51	<0.2	5		6	
S 1000W-100S		6	21	93	0.9	5		8	
S 1000W-150S		4	17	45	0.2	11		9	
S 1000W-200S		5	9	32	<0.2	4		6	
S 1000W-250S		8	11	105	0.2	10		8	
S 1000W-300S		14	21	210	0.3	17		42	
S 1000W-350S		5	17	45	<0.2	7		25	
S 1000W-400S		24	48	474	<0.2	5		310	
S 1000W-450S		5	11	38	<0.2	5		31	
S 1000W-500S		13	26	71	0.4	15		16	
S 1400E-00N		4	15	340	0.2	15		5	
S 1400E-50N		6	16	334	0.6	44		<5	
S 1400E-100N		5	16	365	<0.2	110		<5	
S 1400E-150N		6	12	470	<0.2	210		<5	
S 1400E-200N		4	25	117	0.7	13		10	
S 1400E-250N		6	16	263	0.2	11		9	
S 1400E-300N		5	21	165	<0.2	14		<5	
S 1400E-350N		7	23	145	<0.2	14		10	
S 1400E-400N		5	18	62	<0.2	6		15	
S 1400E-450N		6	15	63	<0.2	14		<5	
S 1400E-500N		6	29	100	0.2	23		64	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sn PPM	NOTES
S 1400E-550N		7	17	100	0.3	12		52	
S 1400E-600N		8	18	164	<0.2	6		12	
S 1400E-650N		8	21	95	0.3	6		<5	
S 1400E-700N		9	18	86	0.3	6		<5	
S 1400E-750N		4	3	20	<0.2	3		8	
S 1400E-800N		6	8	35	0.2	3		8	
S 1400E-850N		9	22	95	0.2	17		16	
S 1400E-900N		3	10	12	<0.2	2		12	
S 1400E-950N		4	17	15	0.2	7		5	
S 1400E-1000N		3	15	30	<0.2	12		8	
S 1400E-1050N		4	16	39	<0.2	14		6	
S 1400E-1100N		5	16	60	<0.2	7		5	
S 1400E-1150N		9	10	67	<0.2	3		8	
S 1400E-1200N		9	10	65	0.2	6		7	
S 1400E-1250N		6	7	33	<0.2	3		11	
S 1400E-1300N		4	5	30	0.2	2		<5	
S 1400E-0505		10	27	355	<0.2	140		<5	
S 1600E-00N		3	2	57	<0.2	14		23	
S 1600E-50N		8	30	540	0.2	65		<5	
S 1600E-150N		19	83	360	1.2	110		17	
S 1600E-200N		7	18	141	<0.2	13		10	
S 1600E-250N		6	17	30	0.4	5		7	
S 1600E-300N		8	29	108	<0.2	24		9	
S 1600E-350N		9	22	65	<0.2	22		15	
S 1600E-400N		8	23	83	<0.2	8		<5	
S 1600E-450N		7	22	110	<0.2	8		<5	
S 1600E-500N		6	17	55	<0.2	4		15	
S 1600E-550N		11	17	84	<0.2	16		<5	
S 1600E-600N		7	13	32	<0.2	3		<5	
S 1600E-650N		6	27	63	<0.2	24		<5	
S 1600E-700N		10	7	10	<0.2	2		<5	
S 1600E-750N		8	12	80	<0.2	25		7	
S 1600E-800N		6	10	45	<0.2	8		<5	
S 1600E-850N		2	3	8	<0.2	2		15	
S 1600E-900N		6	20	77	0.2	24		<5	
S 1600E-950N		8	29	122	0.2	110		18	
S 1600E-1000N		6	17	100	<0.2	6		11	
S 1600E-1050N		6	11	65	<0.2	8		8	
S 1600E-1100N		6	20	117	<0.2	17		14	
S 1600E-1150N		4	13	64	<0.2	7		7	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au PPB	Sn PPM	NOTES
S 1600E-1200N		10	37	100	<0.2	42		<5	
S 1600E-1250N		6	9	30	0.3	2		6	
S 1600E-1300N		6	12	52	<0.2	5		<5	
S 1600E-50S		38	32	340	0.8	170		13	
S 1600E-100S		21	18	198	0.6	70		17	
S 1600E-150S		15	22	144	0.5	30		10	
S 1600E-200S		5	15	62	1.4	95		11	
S 1600E-250S		6	17	60	<0.2	30		13	
S 1600E-300S		10	26	185	0.8	180		30	
S 1600E-350S		16	33	330	0.6	100		30	
S 1600E-400S		19	45	225	1.0	100		33	
S 1600E-450S		12	46	250	0.4	80		21	
S 1600E-500S		12	47	245	<0.2	80		18	
R 5+55W-0+30N		2400	1010	11500					
R 6+00E-0+50S			174	570		> 1000			
R MS-166-1					4.0		40	13	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	NOTES
S 200E 550S		4	5	31	0.2	3	18	
S 200E 600S		5	7	29	<0.2	5	34	
S 200E 650S		4	3	14	0.2	3	21	
S 200E 700S		4	10	444	0.3	5	34	
S 200E 750S		4	5	21	0.2	5	28	
S 200E 800S		7	10	45	0.2	6	47	
S 200E 850S		11	13	146	<0.2	16	36	
S 200E 900S		8	12	87	<0.2	12	44	
S 200E 950S		13	10	95	<0.2	7	41	
S 200E 1000S		5	4	65	<0.2	4	31	
S 200E 1050S		9	10	131	<0.2	11	69	
S 200E 1100S		4	11	29	<0.2	6	45	
S 200E 1150S		16	13	148	<0.2	15	40	
S 200E 1200S		13	12	94	<0.2	11	34	
S 200E 1250S		7	11	69	0.2	8	28	
S 200E 1300S		5	5	46	0.3	6	26	
S 200E 1350S		3	7	11	<0.2	4	9	
S 200E 1400S		12	11	76	<0.2	7	15	
S 200E 1450S		6	6	58	0.3	3	31	
S 200E 1500S		7	10	83	0.3	4	16	
S 200E 1550S		7	12	98	0.5	6	13	
S 200E 1650S		9	11	107	0.2	4	11	
S 200E 1700S		7	8	22	0.2	3	19	
S 200E 1750S		7	5	37	<0.2	5	22	
S 200E 1800S		9	6	55	<0.2	5	38	
S 200E 1850S		15	10	94	<0.2	7	23	
S 200E 1900S		6	6	47	<0.2	5	17	
S 200E 1950S		5	15	101	0.2	8	20	
S 200E 2000S		9	12	133	<0.2	13	36	
S 200E 2050S		12	11	127	<0.2	10	33	
S 200E 2100S		15	15	90	0.5	7	27	
S 200E 2150S		17	14	91	0.3	10	26	
S 200E 2250S		7	10	27	0.2	3	37	
S 200E 2300S		15	20	96	<0.2	14	32	
S 400E 500S		7	11	32	<0.2	10	59	
S 400E 550S		6	15	57	0.2	8	23	
S 400E 600S		5	5	23	<0.2	4	34	
S 400E 650S		10	9	64	<0.2	7	92	
S 400E 700S		5	5	32	<0.2	3	42	
S 400E 750S		5	8	38	0.2	5	10	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
S 400E 800S		7	10	113	<0.2	5	14	
S 400E 850S		19	22	317	<0.2	28	13	
S 400E 900S		4	3	16	0.2	2	38	
S 400E 950S		6	3	33	0.2	2	41	
S 400E 1000S		9	8	144	0.2	2	32	
S 400E 1050S		7	16	47	0.3	6	16	
S 400E 1100S		13	13	97	0.3	5	43	
S 400E 1150S		12	12	72	<0.2	6	16	
S 400E 1200S		9	5	21	<0.2	2	13	
S 400E 1250S		12	5	93	0.2	2	54	
S 400E 1300S		19	17	156	<0.2	8	42	
S 400E 1350S		8	23	42	<0.2	4	<5	
S 400E 1400S		14	20	113	0.2	7	16	
S 400E 1450S		8	15	103	<0.2	7	10	
S 400E 1500S		7	8	61	<0.2	3	15	
S 400E 1550S		10	10	93	<0.2	3	23	
S 400E 1600S		9	8	83	<0.2	4	18	
S 400E 1650S		7	5	114	<0.2	4	25	
S 400E 1700S		4	8	22	<0.2	5	12	
S 400E 1750S		6	9	33	0.3	3	<5	
S 400E 1800S		14	15	73	0.3	7	25	
S 400E 1850S		19	13	82	0.2	6	25	
S 400E 1900S		12	10	59	<0.2	5	20	
S 400E 1950S		4	7	15	<0.2	2	34	
S 400E 2000S		4	5	19	<0.2	2	18	
S 400E 2050S		6	8	31	<0.2	2	27	
S 400E 2100S		14	12	103	<0.2	7	27	
S 400E 2150S		14	15	103	<0.2	7	18	
S 400E 2200S		11	9	59	<0.2	7	49	
S 400E 2250S		23	15	173	<0.2	7	12	
S 400E 2300S		17	15	137	<0.2	8	13	
S 600E 500S		15	19	148	<0.2	17	185	
S 600E 550S		18	17	196	<0.2	15	73	
S 600E 600S		25	11	67	0.6	2	15	
S 600E 650S		8	15	69	0.2	8	32	
S 600E 700S		10	9	28	0.3	2	25	
S 600E 750S		8	11	157	<0.2	7	9	
S 600E 800S		2	4	28	<0.2	2	17	
S 600E 850S		5	5	45	0.2	2	29	
S 600E 900S		17	12	110	0.3	7	<5	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
S 600E 950S		27	19	101	0.3	5	<5	
S 600E 1000S		10	20	77	<0.2	6	22	
S 600E 1050S		8	15	70	<0.2	7	17	
S 600E 1100S		12	7	83	<0.2	5	38	
S 600E 1150S		9	16	183	<0.2	4	71	
S 600E 1200S		11	7	134	<0.2	5	39	
S 600E 1250S		2	2	13	<0.2	<2	125	
S 600E 1300S		5	6	41	<0.2	3	42	
S 600E 1350S		5	2	27	<0.2	2	38	
S 600E 1400S		6	4	45	<0.2	2	60	
S 600E 1450S		7	11	49	<0.2	3	22	
S 600E 1500S		14	12	139	<0.2	5	30	
S 600E 1550S		21	10	186	<0.2	5	32	
S 600E 1600S		18	15	153	0.3	6	22	
S 600E 1650S		9	8	69	<0.2	3	40	
S 600E 1700S		6	7	107	0.2	2	6	
S 600E 1750S		3	3	34	0.2	2	10	
S 600E 1800S		10	13	95	0.2	8	9	
S 600E 1850S		11	12	140	0.2	5	12	
S 600E 1900S		6	10	43	<0.2	4	<5	
S 600E 1950S		8	10	59	<0.2	5	12	
S 600E 2000S		18	11	112	0.2	7	13	
S 600E 2050S		24	12	139	0.4	6	19	
S 600E 2100S		4	11	38	<0.2	4	<5	
S 600E 2150S		11	16	132	<0.2	4	5	
S 600E 2200S		9	11	153	<0.2	2	14	
S 600E 2250S		6	6	59	<0.2	2	13	
S 600E 2300S		13	6	110	0.3	3	14	
S 1200E 00N		13	40	520	0.8	120	15	
S 1200E 50N		6	11	109	0.3	40	17	
S 1200E 100N		8	20	157	0.3	120	11	
S 1200E 150N		31	22	865	1.2	380	<5	
S 1200E 200N		4	3	31	<0.2	75	<5	
S 1200E 250N		9	10	120	<0.2	32	<5	
S 1200E 300N		8	12	510	0.2	7	<5	
S 1200E 350N		6	10	151	1.4	6	7	
S 1200E 400N		38	65	262	1.4	10	70	
S 1200E 450N		23	36	142	0.4	30	75	
S 1200E 500N		8	13	109	0.2	5	10	
S 1200E 550N		10	15	174	<0.2	6	13	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
S 1200E 600N		14	32	174	0.5	7	8	
S 1200E 650N		3	17	17	0.2	4	14	
S 1200E 700N		9	24	116	0.2	7	<5	
S 1200E 750N		4	11	27	0.2	5	17	
S 1200E 800N		8	20	97	0.2	4	6	
S 1200E 850N		5	8	55	<0.2	5	7	
S 1200E 900N		6	8	45	0.2	3	<5	
S 1200E 950N		6	16	55	<0.2	7	5	
S 1200E 1000N		6	5	30	0.3	6	19	
S 1200E 1050N		10	10	33	0.2	15	10	
S 1200E 1100N		14	22	95	<0.2	6	<5	
S 1200E 1150N		5	4	21	<0.2	6	<5	
S 1200E 1200N		5	<2	10	0.2	3	<5	
S 1200E 1250N		5	9	30	0.2	3	10	
S 1200E 1300N		4	9	15	<0.2	7	8	
S 1200E 50S		15	34	330	0.9	10	21	
S 1200E 100S		54	54	445	1.3	8	45	
S 1200E 150S		38	57	475	2.5	4	39	
S 1200E 200S		29	67	360	0.3	3	48	
S 1200E 250S		10	31	223	0.3	3	20	
S 1200E 300S		46	30	515	1.2	6	21	
S 1200E 350S		81	35	465	5.0	2	67	
S 1200E 400S		33	45	310	0.6	2	13	
S 1200E 450S		36	52	475	1.4	34	31	
S 1200E 500S		22	41	293	0.8	210	27	
S 1200E 550S		23	52	249	0.9	17	43	
S 1200E 600S		13	25	94	1.8	12	32	
S 1200E 650S		23	32	106	1.5	50	34	
S 1200E 700S		35	38	364	0.3	410	200	
S 1200E 750S		43	15	234	0.9	6	100	
S 1200E 850S		24	15	257	0.2	11	29	
S 1200E 900S		7	9	65	<0.2	60	48	
S 1200E 950S		5	12	60	0.5	18	8	
S 1200E 1000S		6	12	56	0.6	170	20	
S 1200E 1050S		13	19	143	0.5	65	23	
S 1200E 1100S		5	9	40	0.3	12	29	
S 1200E 1150S		12	13	147	0.5	8	13	
S 1200E 1200S		9	13	135	0.3	40	9	
S 1200E 1250S		4	5	30	0.2	3	14	
S 1200E 1300S		7	9	115	<0.2	8	25	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
S 1200E 1350S		4	5	22	<0.2	2	22	
S 1200E 1400S		4	8	27	<0.2	7	67	
S 1200E 1450S		7	6	39	0.2	3	38	
S 1200E 1500S		5	7	24	0.3	2	41	
S 1200E 1550S		5	7	53	0.2	5	42	
S 1200E 1600S		8	12	107	0.2	6	65	
S 1200E 1650S		17	15	222	0.2	6	56	
S 1200E 1700S		10	12	107	0.4	13	47	
S 1200E 1750S		9	13	113	0.4	3	42	
S 1200E 1800S		2	10	16	0.2	3	13	
S 1200E 1850S		6	8	54	0.2	4	25	
S 1200E 1900S		10	15	77	0.4	3	11	
S 1200E 1950S		8	7	82	0.2	120	36	
S 1200E 2000S		13	17	173	0.2	380	31	
S 1200E 2050S		5	8	50	0.2	410	43	
S 1200E 2100S		5	5	29	0.2	170	38	
S 1200E 2150S		9	10	36	0.2	42	25	
S 1200E 2200S		9	12	92	0.2	95	25	
S 1200E 2250S		6	10	55	0.2	170	24	
S 1200E 2300S		3	2	28	<0.2	70	22	
S 1400E 100S		7	20	138	<0.2	120	10	
S 1400E 150S		19	50	425	2.0	120	28	
S 1400E 200S		7	13	35	0.4	160	19	
S 1400E 250S		77	31	257	3.8	37	<5	
S 1400E 300S		20	32	271	0.8	65	14	
S 1400E 350S		15	45	400	1.3	80	23	
S 1400E 400S		5	20	90	0.5	18	6	
S 1400E 450S		8	25	84	0.5	30	15	
S 1400E 500S		19	55	306	1.2	130	50	
S 1400E 550S		14	36	213	1.0	55	9	
S 1400E 600S		18	55	195	1.4	130	25	
S 1400E 650S		12	28	240	0.7	85	11	
S 1400E 700S		13	39	237	0.9	95	30	
S 1400E 750S		10	25	175	1.7	42	23	
S 1400E 800S		20	25	167	1.5	85	42	
S 1400E 850S		17	20	490	1.0	16	77	
S 1400E 900S		13	20	126	<0.2	22	85	
S 1400E 950S		15	20	170	<0.2	18	33	
S 1400E 1000S		13	11	162	<0.2	10	10	
S 1400E 1050S		5	10	98	0.4	10	12	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
S 1400E 1100S		6	22	164	0.7	15	14	
S 1400E 1150S		4	10	93	0.4	6	17	
S 1400E 1200S		16	17	214	0.7	13	10	
S 1400E 1250S		4	6	83	0.4	3	7	
S 1400E 1300S		5	6	47	0.2	8	30	
S 1400E 1350S		5	3	54	<0.2	14	7	
S 1400E 1400S		8	14	97	0.2	22	16	
S 1400E 1450S		7	12	92	0.2	8	17	
S 1400E 1500S		9	5	16	<0.2	2	19	
S 1400E 1550S		3	2	9	<0.2	2	27	
S 1400E 1600S		8	7	105	<0.2	4	18	
S 1400E 1650S		10	19	162	<0.2	11	41	
S 1400E 1700S		2	5	11	<0.2	2	40	
S 1400E 1750S		10	15	159	0.3	6	54	
S 1400E 1800S		6	17	89	0.2	6	20	
S 1400E 1850S		12	13	195	0.3	8	32	
S 1400E 1900S		3	2	27	<0.2	3	56	
S 1400E 1950S		5	6	28	<0.2	2	52	
S 1400E 2000S		7	21	42	0.2	5	24	
S 1400E 2050S		9	8	41	0.3	3	35	
S 1400E 2100S		15	18	170	0.2	9	36	
S 1400E 2150S		7	10	71	<0.2	8	29	
S 1400E 2200S		7	8	108	0.2	7	20	
S 1400E 2250S		6	8	86	<0.2	8	24	
S 1400E 2300S		11	20	118	0.2	22	7	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
S 4E 5+50N		4	8	70	0.2	18	<5	
S 4E 6+00N		4	12	48	<0.2	3	<5	
S 4E 6+50N		5	9	42	0.3	17	8	
S 4E 7+00N		10	9	40	0.3	10	9	
S 4E 7+50N		3	7	21	0.2	5	<5	
S 4E 8+00N		2	6	11	0.3	2	5	
S 4E 8+50N		6	14	27	<0.2	8	<5	
S 4E 10+50N		3	16	112	0.5	4	7	
S 4E 11+50N		4	13	82	1.0	2	5	
S 4E 12+00N		3	7	8	0.3	3	9	
S 4E 12+50N		6	9	51	<0.2	3	6	
S 4E 13+00N		9	13	58	0.2	4	<5	
S 6E 5+50N		5	3	7	0.2	2	<5	
S 6E 6+00N		7	2	5	1.2	2	7	
S 6E 6+50N		4	10	16	<0.2	5	7	
S 6E 7+00N		3	8	12	<0.2	5	13	
S 6E 7+50N		7	18	31	0.3	20	<5	
S 6E 8+00N		2	4	62	<0.2	2	<5	
S 6E 9+00N		3	9	41	0.2	3	10	
S 6E 10+50N		8	42	100	0.9	10	<5	
S 6E 11+00N		4	10	60	0.7	4	<5	
S 6E 11+50N		5	16	72	0.4	4	8	
S 6E 12+00N		5	19	60	0.3	7	10	
S 6E 12+50N		4	6	20	<0.2	2	<5	
S 6E 13+00N		2	9	6	<0.2	2	5	
S 8+00E 5+00S		110	168	890	6.2	950	33	
S 8+00E 5+50S		15	8	115	<0.2	30	84	
S 8+00E 6+00S		13	21	124	<0.2	14	11	
S 8+00E 6+50S		11	18	140	0.2	12	45	
S 8+00E 7+00S		8	17	80	<0.2	10	22	
S 8+00E 7+50S		13	22	120	0.3	24	35	
S 8+00E 8+00S		3	7	18	0.3	4	22	
S 8+00E 8+50S		4	4	12	<0.2	3	36	
S 8+00E 9+00S		25	52	270	0.9	22	18	
S 8+00E 9+50S		14	17	224	0.7	4	21	
S 8+00E 10+00S		7	3	35	0.2	3	11	
S 8+00E 10+50S		17	13	200	0.7	8	10	
S 8+00E 11+00S		8	8	109	<0.2	3	44	
S 8+00E 11+50S		6	6	67	<0.2	4	29	
S 8+00E 12+00S		9	6	90	<0.2	4	120	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
S 8+00E 12+50S		20	9	250	0.2	3	15	
S 8+00E 13+00S		2	2	12	<0.2	2	68	
S 8+00E 13+50S		4	3	27	<0.2	2	44	
S 8+00E 14+00S		7	9	120	<0.2	7	39	
S 8+00E 14+50S		10	12	140	0.6	7	39	
S 8+00E 15+00S		7	14	95	0.7	7	13	
S 8+00E 15+50S		3	5	8	0.2	2	13	
S 8+00E 16+00S		7	10	83	<0.2	4	28	
S 8+00E 16+50S		9	6	83	<0.2	4	33	
S 8+00E 17+00S		18	12	152	0.2	7	35	
S 8+00E 17+50S		8	8	84	<0.2	5	30	
S 8+00E 18+00S		6	10	55	0.2	3	12	
S 8+00E 18+50S		8	11	92	0.3	5	12	
S 8+00E 19+00S		9	10	84	0.2	4	17	
S 8+00E 19+50S		8	14	79	<0.2	7	14	
S 8+00E 20+00S		8	12	65	0.3	5	14	
S 8+00E 20+50S		6	9	70	0.2	3	19	
S 8+00E 21+00S		13	13	80	<0.2	6	14	
S 8+00E 21+50S		11	14	135	0.2	6	14	
S 8+00E 22+00S		24	12	163	<0.2	7	25	
S 8+00E 22+50S		19	10	120	0.7	6	16	
S 8+00E 23+00S		13	13	105	0.4	6	10	
S 16+00E 5+50S		14	48	264	0.8	110	23	
S 16+00E 6+00S		4	25	35	<0.2	30	5	
S 16+00E 6+50S		5	30	48	<0.2	28	41	
S 16+00E 7+00S		10	43	130	<0.2	80	59	
S 16+00E 7+50S		14	52	167	1.0	140	36	
S 16+00E 8+00S		27	75	335	1.5	300	48	
S 16+00E 8+50S		14	55	170	2.1	140	38	
S 16+00E 9+00S		20	22	90	12.0	40	35	
S 16+00E 9+50S		20	20	189	7.2	50	12	
S 16+00E 10+50S		22	31	800	0.8	42	17	
S 16+00E 11+00S		18	30	1000	0.3	15	16	
S 16+00E 11+50S		5	2	9	<0.2	2	<5	
S 16+00E 12+00S		8	11	65	0.2	14	25	
S 16+00E 12+50S		4	10	50	<0.2	14	18	
S 16+00E 13+00S		4	7	25	<0.2	7	13	
S 16+00E 13+50S		2	6	15	0.2	2	11	
S 16+00E 14+00S		6	26	115	0.3	38	11	
S 16+00E 14+50S		3	7	25	0.3	5	34	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
S 16+00E 15+00S		2	4	19	0.2	2	9	
S 16+00E 15+50S		21	36	420	1.2	62	17	
S 16+00E 16+00S		4	12	28	0.2	7	17	
S 16+00E 16+50S		2	8	35	<0.2	3	10	
S 16+00E 17+00S		3	11	42	0.2	6	14	
S 16+00E 17+50S		3	15	35	<0.2	8	16	
S 16+00E 18+00S		6	13	92	0.2	14	14	
S 16+00E 18+50S		5	9	68	0.2	13	29	
S 16+00E 19+00S		6	13	102	<0.2	8	47	
S 16+00E 19+50S		8	16	160	0.2	8	35	
S 16+00E 20+00S		9	12	170	0.3	8	60	
S 16+00E 20+50S		9	16	210	0.2	8	63	
S 16+00E 21+00S		6	13	100	<0.2	7	39	
S 16+00E 21+50S		10	12	66	0.4	4	79	
S 16+00E 22+00S		4	2	22	<0.2	4	90	
S 16+00E 22+50S		4	12	28	0.2	3	19	
S 16+00E 23+00S		8	20	65	0.2	7	7	
S 1800E 00N		10	56	297	1.0	105	21	
S 1800E 050N		7	20	93	0.2	30	11	
S 1800E 100N		10	22	130	<0.2	17	<5	
S 1800E 150N		9	17	145	<0.2	10	16	
S 1800E 200N		5	13	50	<0.2	7	11	
S 1800E 250N		14	26	170	<0.2	17	6	
S 1800E 300N		13	30	168	<0.2	18	<5	
S 1800E 350N		2	8	11	<0.2	2	10	
S 1800E 400N		3	16	16	0.2	5	7	
S 1800E 450N		7	9	55	<0.2	5	14	
S 1800E 500N		6	10	58	0.2	3	<5	
S 1800E 550N		6	11	55	0.3	12	9	
S 1800E 600N		5	9	38	0.3	14	8	
S 1800E 650N		7	6	9	0.4	3	<5	
S 1800E 700N		7	15	90	0.2	20	<5	
S 1800E 750N		5	10	22	0.5	2	<5	
S 1800E 800N		6	14	30	0.5	7	20	
S 1800E 850N		8	19	64	0.3	32	13	
S 1800E 900N		17	21	110	0.4	10	<5	
S 1800E 950N		10	22	68	0.2	30	15	
S 1800E 1000N		6	20	108	0.3	15	18	
S 1800E 1050N		8	22	160	0.4	8	7	
S 1800E 1100N		5	28	102	0.3	18	<5	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
S 1800E 1150N		5	13	57	<0.2	4	8	
S 1800E 1200N		10	26	65	1.2	8	<5	
S 1800E 1250N		7	25	100	0.3	18	12	
S 1800E 050S		7	25	247	0.6	48	<5	
S 1800E 100S		12	24	255	2.1	20	<5	
S 1800E 150S		5	31	870	<0.2	110	5	
S 1800E 200S		11	19	140	0.8	12	10	
S 1800E 250S		6	10	65	0.2	8	15	
S 1800E 300S		6	18	165	<0.2	42	<5	
S 1800E 350S		6	15	150	0.3	52	10	
S 1800E 400S		5	12	24	<0.2	10	18	
S 1800E 450S		6	11	30	0.7	20	<5	
S 1800E 500S		20	42	280	0.6	145	11	
S 1800E 550S		22	61	230	0.8	65	20	
S 1800E 600S		9	33	123	0.3	70	12	
S 1800E 650S		14	76	280	2.3	95	6	
S 1800E 700S		5	24	75	0.4	32	19	
S 1800E 750S		29	88	390	1.5	210	23	
S 1800E 800S		11	30	115	0.7	62	22	
S 1800E 850S		15	48	145	1.5	110	24	
S 1800E 900S		12	50	210	0.9	120	39	
S 1800E 950S		18	55	220	2.3	120	34	
S 1800E 1000S		12	25	320	2.9	80	6	
S 1800E 1050S		14	24	152	0.8	60	37	
S 1800E 1100S		9	12	360	<0.2	32	23	
S 1800E 1150S		8	5	25	0.4	2	24	
S 1800E 1200S		5	4	18	<0.2	2	38	
S 1800E 1250S		8	14	65	<0.2	18	30	
S 1800E 1300S		8	13	69	<0.2	10	34	
S 1800E 1350S		10	21	69	1.1	24	9	
S 1800E 1400S		6	13	80	<0.2	15	15	
S 1800E 1450S		9	19	139	1.2	40	13	
S 1800E 1500S		4	5	25	0.2	5	25	
S 1800E 1550S		21	28	141	0.3	48	10	
S 1800E 1600S		3	10	25	0.3	6	11	
S 1800E 1650S		5	24	62	0.6	7	7	
S 1800E 1700S		4	16	55	<0.2	7	<5	
S 1800E 1750S		8	15	92	0.5	15	<5	
S 1800E 1800S		6	16	70	0.2	14	11	
S 1800E 1850S		1	6	15	<0.2	2	20	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
S 1800E 1900S		17	50	260	0.4	17	12	
S 1800E 1950S		7	13	95	<0.2	42	31	
S 1800E 2000S		7	21	120	0.3	12	27	
S 1800E 2050S		9	16	190	0.2	11	37	
S 1800E 2100S		9	12	152	<0.2	6	34	
S 1800E 2150S		5	8	30	<0.2	3	78	
S 1800E 2200S		5	8	28	<0.2	3	85	
S 1800E 2250S		7	10	115	<0.2	5	40	
S 1800E 2300S		7	15	105	0.2	5	27	
S 2000E 00N		17	20	140	2.0	82	40	
S 2000E 050N		10	25	75	0.4	105	49	
S 2000E 100N		12	26	73	0.6	105	20	
S 2000E 150N		41	36	225	1.8	300	87	
S 2000E 200N		122	22	255	1.5	270	30	
S 2000E 250N		27	20	130	0.5	100	77	
S 2000E 300N		30	25	108	1.0	60	82	
S 2000E 350N		10	<2	105	<0.2	22	6	
S 2000E 400N		9	<2	60	0.3	42	13	
S 2000E 450N		7	18	68	0.2	48	11	
S 2000E 500N		8	15	68	<0.2	48	12	
S 2000E 550N		6	14	20	1.1	8	28	
S 2000E 600N		10	18	58	0.2	37	26	
S 2000E 650N		40	88	420	2.8	270	36	
S 2000E 700N		40	28	122	1.2	50	215	
S 2000E 750N		20	19	68	0.9	48	34	
S 2000E 800N		28	20	136	4.2	30	14	
S 2000E 850N		25	26	160	0.6	38	<5	
S 2000E 900N		10	21	117	0.7	14	<5	
S 2000E 950N		10	31	102	0.2	32	9	
S 2000E 1000N		17	52	97	1.2	65	5	
S 2000E 1150N		9	15	87	<0.2	18	<5	
S 2000E 1250N		13	29	110	0.2	12	9	
S 2000E 1300N		12	22	43	0.2	14	<5	
S 2000E 050S		20	31	180	1.5	155	40	
S 2000E 100S		10	12	80	0.6	40	19	
S 2000E 150S		12	20	100	0.7	98	14	
S 2000E 200S		5	17	104	<0.2	7	<5	
S 2000E 250S		14	40	268	<0.2	18	<5	
S 2000E 300S		10	23	590	<0.2	70	9	
S 2000E 350S		15	16	165	0.6	15	25	

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Geochemical Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
S 2000E 400S		5	12	170	<0.2	18	8	
S 2000E 450S		6	19	190	<0.2	70	<5	
S 2000E 500S		11	29	120	0.7	15	8	
S 2000E 550S		7	25	80	0.4	82	8	
S 2000E 600S		3	15	17	0.2	10	14	
S 2000E 650S		10	38	155	0.3	65	23	
S 2000E 700S		15	42	300	0.6	78	22	
S 2000E 750S		9	46	215	0.5	65	13	
S 2000E 800S		17	50	285	1.0	50	20	
S 2000E 850S		13	47	269	0.5	65	17	
S 2000E 900S		10	43	137	0.8	75	20	
S 2000E 950S		18	55	347	1.3	110	17	
S 2000E 1000S		12	30	90	0.8	95	46	
S 2000E 1050S		12	15	175	0.8	14	21	
S 2000E 1100S		12	17	156	0.7	18	150	
S 2000E 1150S		8	12	38	0.4	17	19	
S 2000E 1200S		12	19	110	0.7	33	44	
S 2000E 1250S		11	19	140	0.6	26	65	
S 2000E 1300S		11	16	170	<0.2	12	19	
S 2000E 1350S		10	13	93	<0.2	10	17	
S 2000E 1400S		6	9	70	<0.2	3	42	
S 2000E 1450S		4	9	32	0.3	10	24	
S 2000E 1500S		7	11	28	0.4	5	<5	
S 2000E 1550S		7	16	112	0.5	32	14	
S 2000E 1600S		5	8	35	<0.2	8	5	
S 2000E 1650S		6	30	65	<0.2	22	11	
S 2000E 1700S		4	11	52	0.2	6	19	
S 2000E 1750S		6	12	83	<0.2	8	15	
S 2000E 1800S		3	6	26	0.2	5	5	
S 2000E 1850S		7	15	88	1.5	16	16	
S 2000E 1900S		2	6	16	<0.2	2	15	
S 2000E 1950S		6	13	68	0.3	12	9	
S 2000E 2000S		4	4	20	<0.2	2	31	
S 2000E 2050S		3	9	40	<0.2	5	<5	
S 2000E 2100S		6	9	79	<0.2	6	42	
S 2000E 2150S		7	14	99	0.2	7	40	
S 2000E 2200S		8	12	103	0.4	3	6	
S 2000E 2250S		6	22	82	0.2	12	<5	
S 2000E 2300S		5	5	36	<0.2	3	32	
S 2200E 00N		5	14	56	<0.2	6	8	

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REPORT: 124-1116

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
S 2200E 050N		10	22	149	0.3	30	7	
S 2200E 100N		43	1440	355	12.0	550	67	
S 2200E 150N		27	1540	357	11.0	300	30	
S 2200E 200N		5	43	20	1.0	17	10	
S 2200E 250N		3	31	11	0.4	4	14	
S 2200E 300N		21	340	200	6.7	190	16	
S 2200E 350N		22	250	98	9.6	90	30	
S 2200E 400N		6	18	69	<0.2	8	<5	
S 2200E 450N		8	45	96	0.3	55	<5	
S 2200E 500N		12	45	170	1.1	30	10	
S 2200E 550N		32	170	210	2.0	140	10	
S 2200E 600N		18	73	120	0.5	65	47	
S 2200E 650N		7	35	130	0.4	30	6	
S 2200E 700N		8	20	103	0.3	20	6	
S 2200E 750N		11	20	128	1.2	26	16	
S 2200E 800N		7	14	100	0.6	22	14	
S 2200E 850N		14	22	228	0.2	34	7	
S 2200E 900N		16	26	400	0.4	14	11	
S 2200E 950N		5	17	100	0.2	18	7	
S 2200E 1050N		5	27	18	0.6	4	8	
S 2200E 1100N		13	18	100	<0.2	7	8	
S 2200E 1150N		11	15	68	<0.2	8	9	
S 2200E 1200N		11	20	80	<0.2	14	<5	
S 2200E 1250N		5	12	40	<0.2	12	7	
S 2200E 1300N		7	13	44	<0.2	6	<5	
S 2200E 050S		3	16	22	0.2	10	18	
S 2200E 100S		7	70	124	0.5	42	12	
S 2200E 150S		10	21	175	<0.2	40	27	
S 2200E 200S		4	15	90	<0.2	12	19	
S 2200E 250S		4	18	51	0.2	10	5	
S 2200E 300S		5	16	270	<0.2	28	6	
S 2200E 350S		6	22	480	<0.2	42	12	
S 2200E 400S		6	18	430	<0.2	40	6	
S 2200E 450S		5	25	213	0.5	11	6	
S 2200E 500S		3	12	190	<0.2	20	<5	
S 2200E 6+50S		7	33	243	0.2	90	<5	
S 2200E 7+50S		11	52	240	0.2	50	12	
S 2200E 8+00S		14	28	210	<0.2	40	8	
S 2200E 8+50S		16	49	310	1.0	110	15	
S 2200E 9+00S		15	66	267	0.7	210	26	

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Geochemical Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sn PPM	NOTES
S 2200E 9+50S		19	55	260	0.7	120	62	
S 2200E 10+00S		8	34	70	0.4	30	44	
S 2200E 10+50S		9	23	65	1.8	42	25	
S 2200E 11+00S		14	24	206	<0.2	48	56	
S 2200E 11+50S		10	14	90	<0.2	14	22	
S 2200E 12+00S		17	21	140	0.4	30	76	
S 2200E 12+50S		7	20	70	<0.2	20	94	
S 2200E 13+00S		9	10	51	<0.2	10	50	
S 2200E 13+50S		11	16	155	<0.2	110	27	
S 2200E 14+00S		11	14	161	0.2	40	45	
S 2200E 16+00S		7	12	38	0.2	10	15	
S 2200E 16+50S		2	7	16	<0.2	3	13	
S 2200E 17+00S		4	9	62	<0.2	12	14	
S 2200E 17+50S		2	5	15	0.2	3	19	
S 2200E 18+00S		3	8	23	<0.2	5	14	
S 2200E 18+50S		3	10	10	1.0	3	8	
S 2200E 19+00S		4	12	55	<0.2	10	9	
S 2200E 19+50S		5	15	78	<0.2	22	8	
S 2200E 20+00S		12	12	50	0.2	7	25	
S 2200E 20+50S		6	12	75	<0.2	17	<5	
S 2200E 21+00S		5	13	40	<0.2	8	<5	
S 2200E 21+50S		7	10	51	0.4	6	18	
S 2200E 22+00S		3	4	12	<0.2	2	11	
S 2200E 22+50S		4	5	31	<0.2	2	32	
S 2200E 23+00S		4	18	50	<0.2	7	8	
T 2200E 1070NSS		8	17	100	<0.2	38	<5	
T LK-01-SS		7	18	540	<0.2	58	8	



ROCK SAMPLE RESULTS – LOGAN WEST

TAG No	Cu ppm	Pb ppm	Zn ppm	Ag ppm	As ppm	Sb ppm	Au ppb	DESCRIPTION
20	740	445	1000	24.0	185	35	< 5	IRON AND MANGANESE OXIDES
21	97	27	701	1.8	>1000	15	160	PYRITE AND ARGILLIC ALTERATION
22	4	55	92	2.0	205	10	15	PYRITE AND QUARTZ BRECCIA
24	—	—	—	< .2	—	1000	5	———
25	56	15	208	9.8	—	5500	—	SILICIFIED INTRUSIVE
27	—	18	75	1.0	1000	15	—	SILICIFIED GREISEN, ARSENO-PYRITE
28	—	—	—	1.9	>1000	18	90	SILICIFIED GREISEN, ARSENO-PYRITE
29	—	—	—	2.9	210	25	10	SILICIFIED INTRUSIVE, IRON OXIDE
30	41	83	160	10.0	—	135	< 5	GREISEN, VUGGY QUARTZ
31	128	6	224	0.8	—	20	570	———
32	17	16	69	1.8	>1000	29	30	GREISEN, ARSENO-PYRITE
33	28	32	680	0.4	—	21	—	———

NOTE: ALL GRAB SAMPLES

ROCK SAMPLE RESULTS – LOGAN CENTRAL

TAG No	SAMPLE TYPE	Cu ppm	Cu %	Pb ppm	Pb %	Zn ppm	Zn %	Ag oz/ton	As ppm	As %	Sn ppm	Sn %	Au oz/ton	DESCRIPTION
10	GRAB	—	.16	—	.41	—	.28	—	5.40	—	—	.02	—	TRACE GALENA, TETRAHEDRITE, PYRITE
11	GRAB	—	.06	.178	—	324	—	—	.02	—	—	—	.002	SILICIFIED GREISEN
12	GRAB	22	—	32	—	29	—	26.0	—	—	15	—	—	SILICIFIED GREISEN TRACE/SOME BRECCIA
13	GRAB	—	.72	—	.08	—	.04	—	2.74	—	12.89	—	< .01	.002	ARSENOPYRITE, SILICIFIED INTRUSIVE
14	GRAB	14	—	70	—	96	—	—	.08	—	< 5	—	—	.002	IRON OXIDE RICH
15	GRAB	19	—	29	—	174	—	—	.02	—	25	—	—	< .002	ARSENOPYRITE IN QUARTZ VEIN
16	GRAB	—	.24	1000	—	9000	—	—	(4.7)	—	15	—	—	.002	TETRAHEDRITE IN QUARTZ VEIN
17	GRAB	—	.1000	—	.470	—	8600	—	34.0	—	750	—	< 5	—	GOOD RICH QUARTZ VEINING
18	GRAB	—	.39	.06	—	.04	—	—	2.64	—	—	.04	—	< .002	TETRAHEDRITE IN QUARTZ VEIN
19	GRAB	—	.08	.127	—	.04	—	1450	—	—	.025	—	—	< .002	PYRITE - ARSENOPYRITE IN GREISEN
23	GRAB	—	—	93	—	—	—	39000	—	2.7	—	—	< 5	—	OXIDIZED GREISEN, SPHALERITE
26	GRAB	—	—	38	—	69	—	440	—	< .2	—	—	< 5	—	OXIDIZED GREISEN, CLAY-IRON
P0001	1m CHIP	—	.05	.080	—	232	—	—	—	—	5.6	—	—	.002	TRENCH SAMPLE, GREISEN & QUARTZ VEINS
20002	1m CHIP	—	.02	720	—	2.08	—	—	1.39	—	.185	—	—	.002	TRENCH SAMPLE, GREISEN & QUARTZ VEINS
20003	GRAB	—	.24	.130	—	.182	—	—	1.32	—	55	—	—	< .002	TETRAHEDRITE IN QUARTZ VEIN
20004	GRAB	2430	—	1010	—	11800	—	—	6.41	—	—	.02	—	.002	OCEAN ZONE - GREISEN
20005	FLOAT	—	.06	—	.02	—	1.24	—	.72	—	1.48	—	.02	—	.002	ARSENOPYRITE, SPHALERITE, TETRAHEDRITE IN QUARTZ VEIN
20006	GRAB	—	.01	174	—	970	—	—	.41	—	9200	—	< .01	—	.002	ARSENOPYRITE, GREISEN

ROCK SAMPLE RESULTS – LOGAN EAST

TAG No	Cu ppm	Cu %	Pb ppm	Pb %	Zn ppm	Zn %	Ag oz/ton	As ppm	As %	Sn ppm	Sn %	Au ppb	Au oz/ton	DESCRIPTION
1	—	—	6462	—	592	—	55.0	—	>1000	—	425	—	—	—	QUARTZ VEIN WITH MINERALS
2	—	—	5730	—	119	—	28.0	—	>1000	—	30	—	—	—	QUARTZ VEIN WITH MINERALS
3	—	—	—	—	—	—	—	—	—	—	< 5	—	—	—	———
4	—	—	—	—	—	—	—	—	—	—	18	—	—	—	GREISENIZED WITH PYRITE
5	—	—	265	—	1430	—	2.1	—	—	—	65	—	—	—	SILICIFIED INTRUSIVE
6	—	—	415	—	>10000	—	6.4	—	—	—	—	—	—	—	SPHALERITE IN MILKY QUARTZ
7	—	—	286	—	1720	—	9.0	—	>1000	—	< 5	—	—	—	SILICIFIED PYRITE?
8	—	—	775	—	—	—	8.3	—	1000	—	—	—	—	—	SPHALERITE, VUGGY SILICIFIED
9	—	—	1990	—	510	—	—	—	>1000	—	52	—	—	—	ARSENOPYRITE, TETRAHEDRITE IN SILICIFIED INTRUSIVE
20018	—	.01	—	.17	—	—	.21	—	11.0	—	—	—	9.07	.01	CALCITE-TETRAHEDRITE IN QUARTZ VEIN IN SILICIFIED INTRUSIVE
20019	—	.08	—	.15	—	.02	—	—	.41	—	.55	—	< .01	.002	GALENA IN SILICIFIED INTRUSIVE
20212	—	—	—	—	1.65	—	1.91	—	3.70	—	.01	—	.03	.002	TETRAHEDRITE - GALENA-VUGGY
20213	—	—	—	—	1.60	—	.20	—	25.67	—	.30	—	.06	.012	MINERALIZED QUARTZ VEIN
20312	—	—	—	.26	—	.26	—	—	.09	—	.87	—	< .01	.002	ARSENOPYRITE - PYRITE
20317	37	—	515	—	305	—	—	—	.07	—	.02	—	—	.002	ALTERED INTRUSIVE
20318	56	—	20	—	1000	—	—	—	.09	—	—	—	< .01	< .002	SILICIFIED QUARTZ VEIN
20319	26	—	1585	—	935	—	—	—	.19	—	.02	—	< .01	.002	IRON AND MANGANESE OXIDE
20320	88	—	15	—	357	—	—	—	.16	—	—	—	< .01	< .002	GREISEN - IRON ALTERED INTRUSIVE
20321	42	—	19	—	3150	—	—	—	.10	—	—	—	< .01	< .002	

NOTE: ALL GRAB SAMPLES

LITHOLOGY

CRETACEOUS

- 1 — GRANODIORITE TO QUARTZ MONZONITE + UNDIVIDED PEGMATITIC AND EQUIGRANULAR PHASES
- 1a — PEGMATITIC GRANODIORITE ; MINOR EQUIGRANULAR AND GRAPHIC TEXTURES
- 1c — PEGMATITIC GRANODIORITE ; GRAPHIC TEXTURES DOMINANT
- 1d — PEGMATITIC GRANODIORITE ; MINOR METASEDIMENTARY ROCKS

CRETACEOUS

- 2 — GRANODIORITE ; EQUIGRANULAR ; NON PEGMATITIC
- 2b — GRANODIORITE ; EQUIGRANULAR ; MINOR PEGMATITIC PHASES

LOWER CAMBRIAN AND EARLIER (?)

- 3 — QUARTZ-BIOTITE-MUSCOVITE SCHIST ; MINOR QUARTZITE

SYMBOLS

- APPROXIMATE GEOLOGICAL CONTACT
- JOINT ATTITUDE
- OUTCROP LIMIT
- SOIL SAMPLE SITE
- □ 25 — ROCK SAMPLE LOCATION RESULTS AS GIVEN FOR ASSAYS AND/OR ROCK GEOCHEMISTRY
- CUT LINE
- x — MINERALIZATION
  - Ag TETRAHEDRITE
  - As ARSENOPYRITE
  - Pb GALENA
  - Zn SPHALERITE
  - Py PYRITE
  - Cp CHALCOPYRITE
  - Qtz QUARTZ VEINING

NOTE
DRAINAGES FROM ORTHOPHOTO (BURNETT RESOURCES)

0061601

GETTY CANADIAN METALS, LIMITED

REGIONAL RESOURCES LTD.

PRELIMINARY GEOLOGY AND ROCK GEOCHEMISTRY MAP

LOGAN CLAIM GROUP

WOLF LAKE MAP AREA, N.T.S. 105B/7,8,9 & 10

WATSON LAKE MINING DISTRICT, YUKON TERRITORY

SCALE 1 : 5,000

100 0 100 200 300 METRES

BY

CORDILLERAN ENGINEERING

1980 - 1055 W. HASTINGS STREET

VANCOUVER, B.C. V6E 2E9

OCTOBER 1984

PLATE I

APPROXIMATE CLAIM BOUNDARY

SAMPLED PRIOR TO 1984

APPROXIMATE CLAIM BOUNDARY

APPROXIMATE CLAIM BOUNDARY

EXPLANATION

- SOIL SAMPLE STATION
- NS NO SAMPLE
- CUT LINE
- 110 ppm COPPER CONTOUR
- 60 ppm COPPER CONTOUR

ALL VALUES IN PARTS PER MILLION (ppm)

NOTE:
DRAINAGES FROM ORTHOPHOTO BASE (BURNETT RESOURCES)
VALUES < 15 ppm COPPER NOT PLOTTED

091601

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COPPER GEOCHEMISTRY

LOGAN CLAIM GROUP
WOLF LAKE MAP AREA, N.T.S. 105B/7,8,9&10
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

SCALE 1:5,000

BY
CORDILLERAN ENGINEERING
1980 - 1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

OCTOBER 1984

PLATE 2

APPROXIMATE CLAIM BOUNDARY

SAMPLED PRIOR TO 1984

APPROXIMATE CLAIM BOUNDARY

APPROXIMATE CLAIM BOUNDARY

EXPLANATION

- SOIL SAMPLE STATION
- NS NO SAMPLE
- CUT LINE
- 110 ppm LEAD CONTOUR
- 60 ppm LEAD CONTOUR

ALL VALUES IN PARTS PER MILLION (ppm)

NOTE
DRAINAGES FROM ORTHOPHOTO BASE (BURNETT RESOURCES)
VALUES < 15 ppm LEAD NOT PLOTTED

091601

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LEAD GEOCHEMISTRY

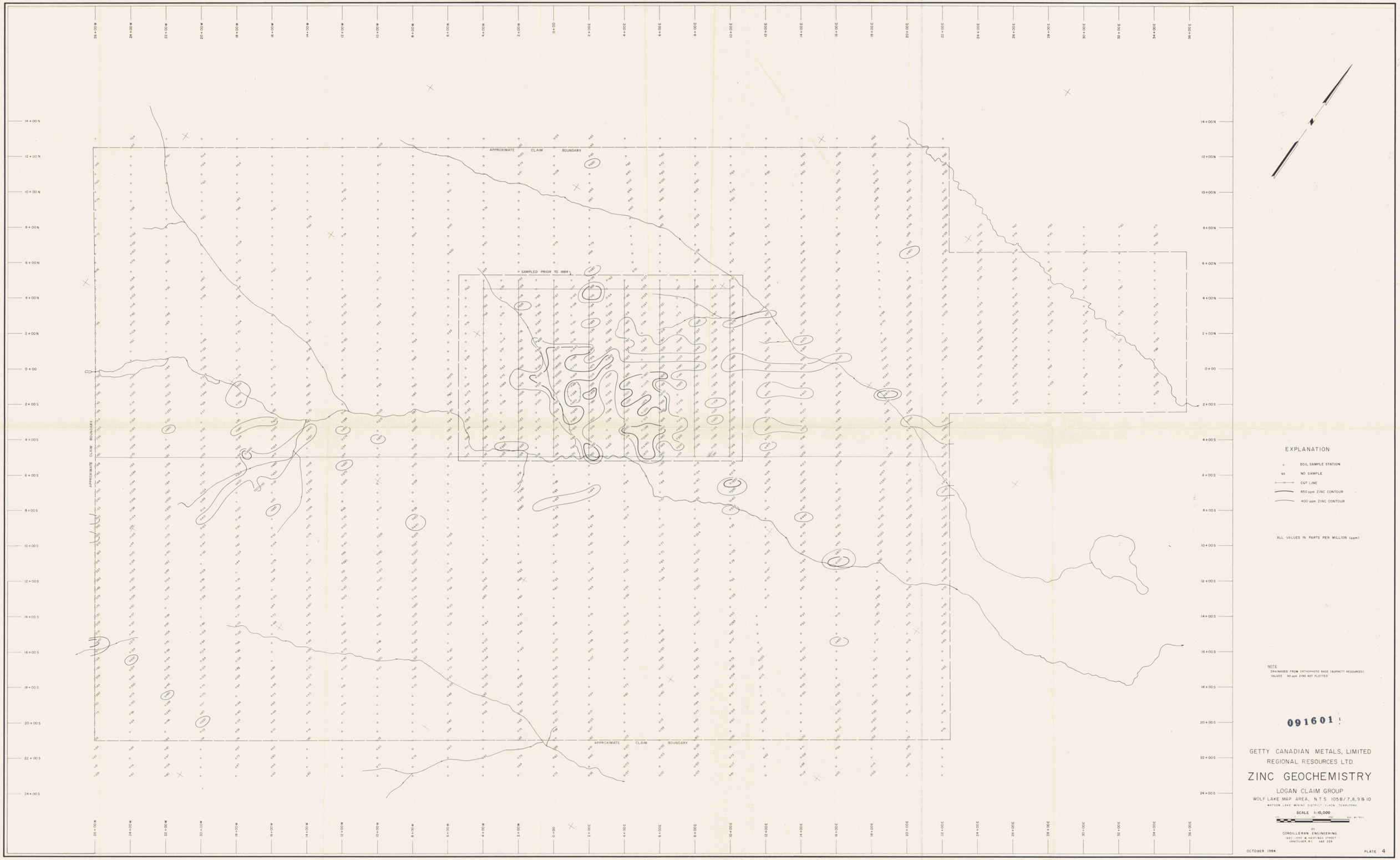
LOGAN CLAIM GROUP
WOLF LAKE MAP AREA, N.T.S. 105B/7,8,9&10
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

SCALE 1:10,000

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VANCOUVER, B.C. V6E 2E9

OCTOBER 1984

PLATE 3



EXPLANATION

- SOIL SAMPLE STATION
- NS NO SAMPLE
- CUT LINE
- 850 ppm ZINC CONTOUR
- 400 ppm ZINC CONTOUR

ALL VALUES IN PARTS PER MILLION (ppm)

NOTE
DRAINAGES FROM ORTHOPHOTO BASE (BURNETT RESOURCES)
VALUES 60 ppm ZINC NOT PLOTTED

091601

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ZINC GEOCHEMISTRY

LOGAN CLAIM GROUP
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WATSON LAKE MINING DISTRICT, YUKON TERRITORY

SCALE 1:10,000

BY
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VANCOUVER, B.C. V6E 2E9

OCTOBER 1984

PLATE 4

APPROXIMATE CLAIM BOUNDARY

SAMPLED PRIOR TO 1984

APPROXIMATE CLAIM BOUNDARY

APPROXIMATE CLAIM BOUNDARY

EXPLANATION

- SOIL SAMPLE STATION
- NS NO SAMPLE
- CUT LINE
- 3.6ppm SILVER CONTOUR
- 1.7ppm SILVER CONTOUR

ALL VALUES IN PARTS PER MILLION (ppm)

NOTE:
DRAINAGES FROM ORTHOPHOTO BASE (BURNETT RESOURCES)
VALUES ≤ 2ppm SILVER NOT PLOTTED

091601

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SILVER GEOCHEMISTRY

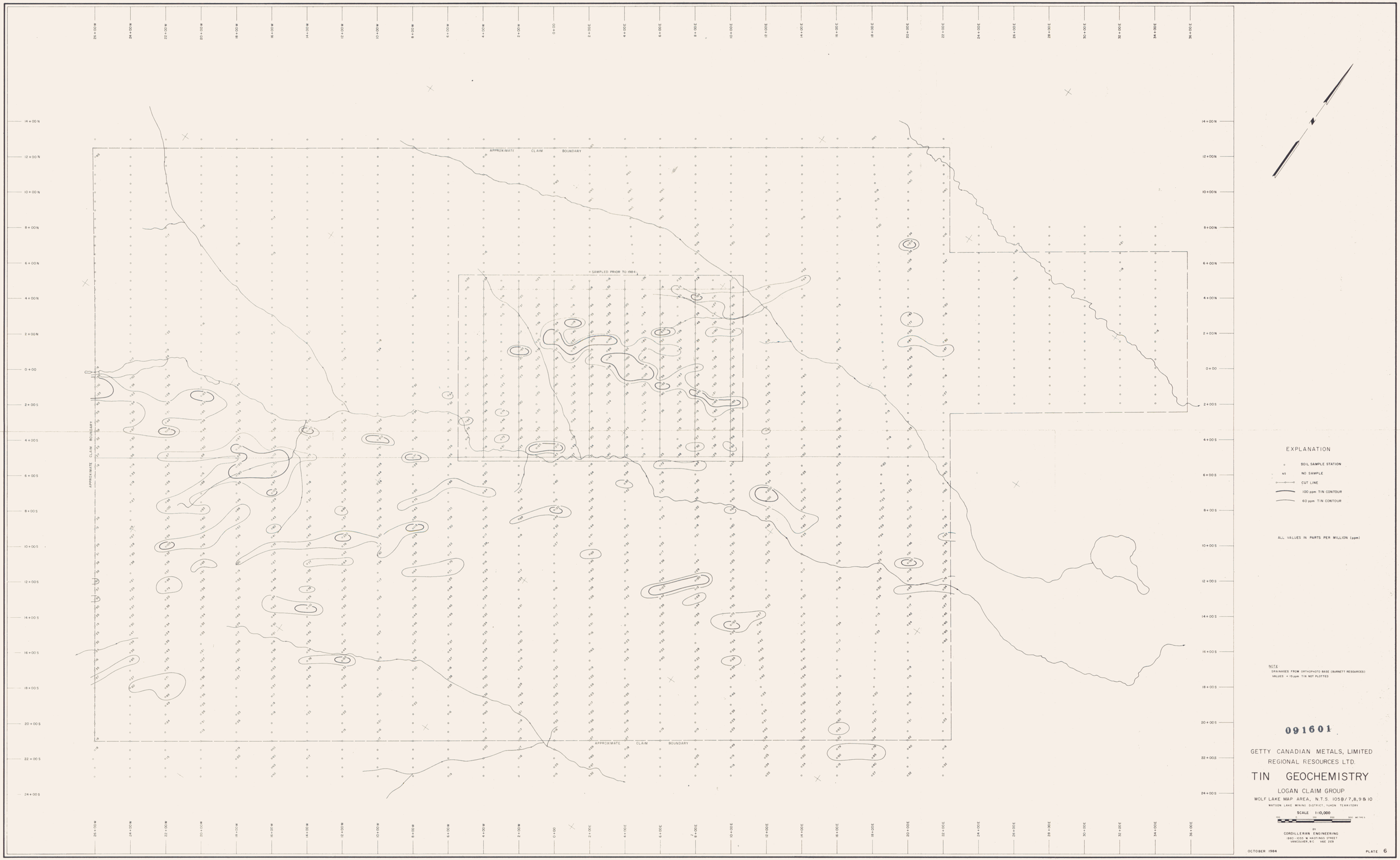
LOGAN CLAIM GROUP
WOLF LAKE MAP AREA, N.T.S. 105B/7,8,9&10
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

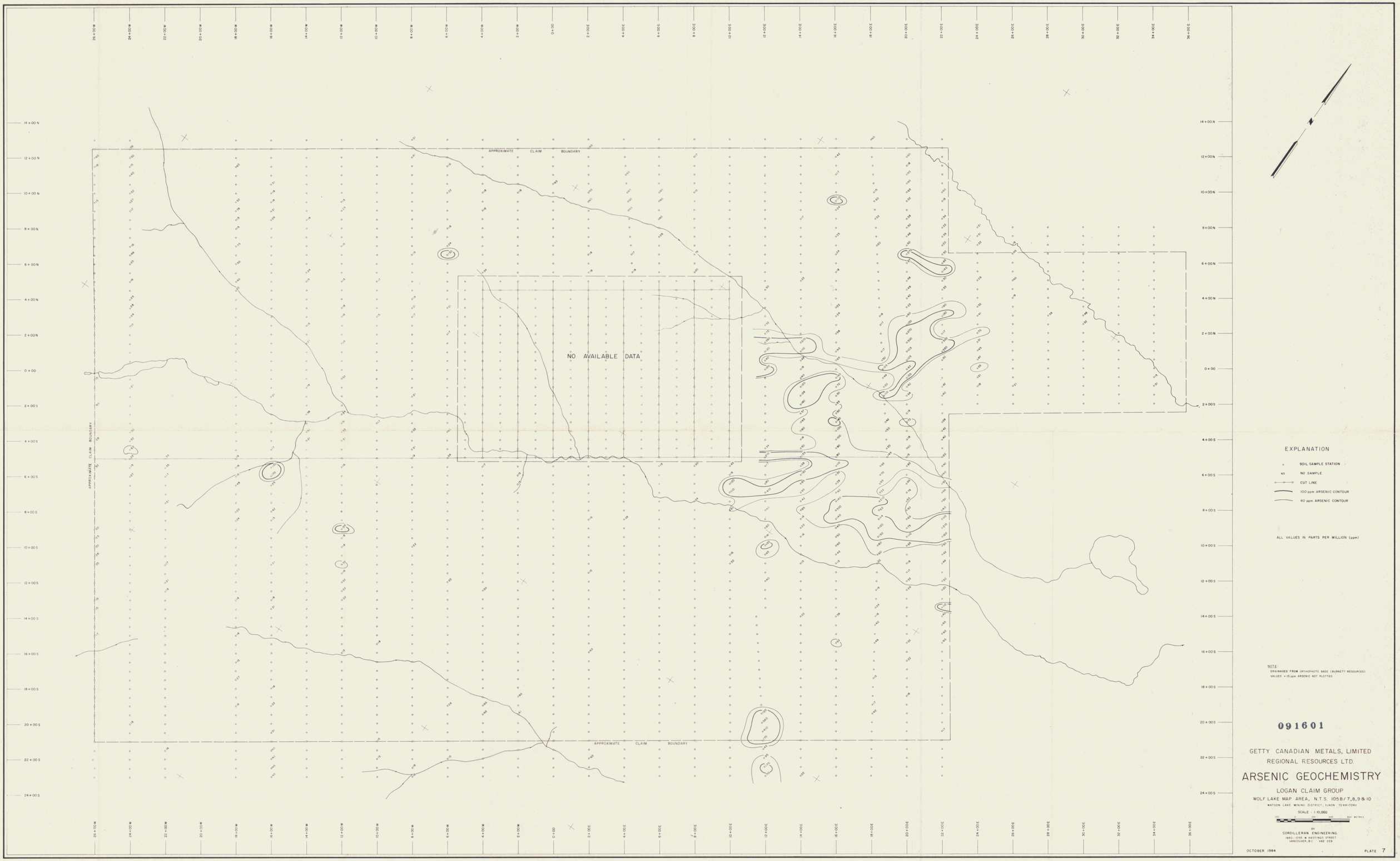
SCALE 1:10,000

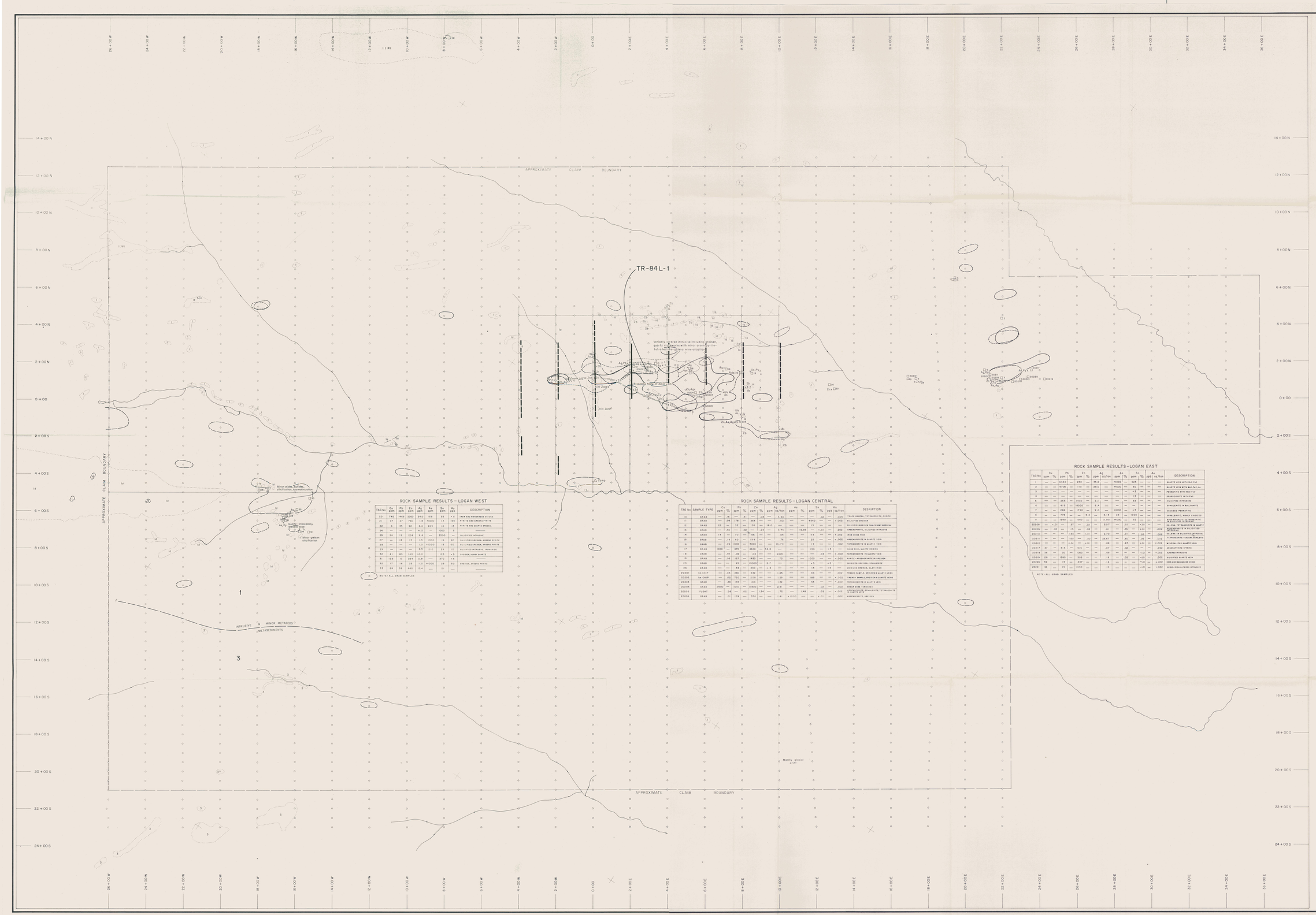
BY
CORDILLERAN ENGINEERING
980-1055 W. HASTINGS STREET
VANCOUVER B.C. V6E 2E9

OCTOBER 1984

PLATE 5


APPROXIMATE CLAIM BOUNDARY
SAMPLED PRIOR TO 1984
APPROXIMATE CLAIM BOUNDARY
APPROXIMATE CLAIM BOUNDARY
EXPLANATION
SOIL SAMPLE STATION
NS NO SAMPLE
CUT LINE
100 ppm TIN CONTOUR
60 ppm TIN CONTOUR
ALL VALUES IN PARTS PER MILLION (ppm)
NOTE
DRAINAGES FROM ORTHOPHOTO BASE (BURNETT RESOURCES)
VALUES < 15 ppm TIN NOT PLOTTED
091601
GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.
TIN GEOCHEMISTRY
LOGAN CLAIM GROUP
WOLF LAKE MAP AREA, N.T.S. 105B/7,8,9 & 10
WATSON LAKE MINING DISTRICT, YUKON TERRITORY
SCALE 1:10,000
BY
CORDILLERAN ENGINEERING
1980 - 1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9
OCTOBER 1984
PLATE 6


APPROXIMATE CLAIM BOUNDARY
NO AVAILABLE DATA
APPROXIMATE CLAIM BOUNDARY
APPROXIMATE CLAIM BOUNDARY
EXPLANATION
SOIL SAMPLE STATION
NS NO SAMPLE
CUT LINE
100 ppm ARSENIC CONTOUR
60 ppm ARSENIC CONTOUR
ALL VALUES IN PARTS PER MILLION (ppm)
NOTE:
DRAINAGES FROM ORTHOPHOTO BASE (BURNETT RESOURCES)
VALUES < 15 ppm ARSENIC NOT PLOTTED
091601
GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.
ARSENIC GEOCHEMISTRY
LOGAN CLAIM GROUP
WOLF LAKE MAP AREA, N.T.S. 105B/7,8,9&10
WATSON LAKE MINING DISTRICT, YUKON TERRITORY
SCALE 1:10,000
BY
CORDILLERAN ENGINEERING
1980-1055 W HASTINGS STREET
VANCOUVER, B.C. V6E 2E9
OCTOBER 1984
PLATE 7



ROCK SAMPLE RESULTS – LOGAN WEST

TAG No	Cu ppm	Pb ppm	Zn ppm	Ag ppb	As ppm	Sn ppm	Au ppb	DESCRIPTION
30	740	1465	2000	24.0	19.5	35	< 5	IRON AND MANGANESE OXIDES
31	97	27	720	1.8	>1000	13	160	PYRITE AND ARSENO PYRITE
32	6	35	90	2.0	205	10	15	PYRITE AND QUARTZ BRECCIA
34	—	—	—	—	4.0	—	1000	—
35	56	19	208	9.6	—	1500	—	SILICIFIED INTRUSIVE
37	—	18	15	1.0	1000	10	40	SILICIFIED GNEISS, ARSENO PYRITE
38	—	—	—	1.9	>1000	18	60	SILICIFIED GNEISS, ARSENO PYRITE
39	—	—	—	2.5	210	25	170	SILICIFIED INTRUSIVE, IRON OXIDE
50	41	83	160	10.0	—	125	< 5	SPECKEL HUSKY QUARTZ
51	1216	9	324	0.8	—	570	< 5	—
52	17	16	25	1.0	>1000	29	70	SPECKEL ARSENO PYRITE
53	28	52	680	0.4	—	21	—	—

NOTE: ALL GRAB SAMPLES

ROCK SAMPLE RESULTS – LOGAN CENTRAL

TAG No	SAMPLE TYPE	Cu ppm	Cu %	Pb ppm	Pb %	Zn ppm	Zn %	Ag oz/ton	Ag ppm	As ppm	As %	Sn ppm	Sn %	Au ppb	Au oz/ton	DESCRIPTION
10	GRAB	—	.18	—	.17	—	.08	—	5.40	—	—	—	.02	—	.003	TRACE GALENA, TETRAHEDRITE, PYRITE
11	GRAB	—	.08	178	—	364	—	.02	—	4540	—	—	.02	—	.004	SILICIFIED GNEISS
12	GRAB	23	—	32	—	24	—	18.0	—	—	—	15	—	—	.003	SILICIFIED BRECCIA CHALCEDONY BRECCIA
13	GRAB	—	.70	—	.08	—	.04	—	1.74	—	—	18.89	—	< .01	.002	ARSENOPYRITE, SILICIFIED INTRUSIVE
14	GRAB	16	—	70	—	96	—	.08	—	—	< 5	—	—	—	< .002	IRON OXIDE ROCK
15	—	—	—	16	—	154	—	.06	—	—	—	—	—	—	< .002	ARSENOPYRITE IN QUARTZ VEIN
16	GRAB	—	.26	1000	—	9000	—	—	14.70	—	—	15	—	—	.002	TETRAHEDRITE IN QUARTZ VEIN
17	GRAB	1000	—	470	—	4600	—	—	34.3	—	—	150	—	< 5	—	GOOD MOSS, QUARTZ VEINING
18	GRAB	—	.39	.06	—	.04	—	—	2.64	—	—	—	.04	< .005	.002	TETRAHEDRITE IN QUARTZ VEIN
19	GRAB	—	.06	157	—	1650	—	—	.79	—	—	1000	—	—	< .002	PYRITE-ARSENOPYRITE IN GNEISS
23	GRAB	—	—	93	—	18000	—	2.7	—	—	—	—	—	< 5	—	SILICIFIED GNEISS, SPHALERITE
24	GRAB	—	—	38	—	640	—	< .2	—	—	—	< 5	—	< 5	—	SILICIFIED GNEISS, CLAY-IRON
20001	m CHIP	—	.25	280	—	232	—	—	.45	—	—	36	—	—	.002	TRENCH SAMPLE, GNEISS IN QUARTZ VEINS
20002	m CHIP	—	.02	720	—	218	—	—	1.09	—	—	185	—	—	.002	TRENCH SAMPLE, GNEISS IN QUARTZ VEINS
20003	GRAB	—	.06	193	—	180	—	—	1.32	—	—	55	—	—	< .002	TETRAHEDRITE IN QUARTZ VEIN
20004	GRAB	2400	—	1010	—	11800	—	—	6.41	—	—	—	.02	—	.002	SUGAR ZONE - GNEISSES
20005	FLOAT	—	.06	—	.02	—	.04	—	.72	—	—	1.48	—	.04	< .002	ARGENTOPYRITE, SPHALERITE, TETRAHEDRITE IN QUARTZ VEIN
20006	GRAB	—	.01	174	—	870	—	—	.41	> 1000	—	—	< .01	—	.002	ARSENOPYRITE, GNEISS

ROCK SAMPLE RESULTS – LOGAN EAST

TAG No	Cu ppm	Cu %	Pb ppm	Pb %	Zn ppm	Zn %	Ag ppm	Ag oz/ton	As ppm	As %	Sn ppm	Sn %	Au ppb	Au oz/ton	DESCRIPTION
1	—	—	6940	—	250	—	56.0	—	>1000	—	825	—	—	—	QUARTZ VEIN WITH MVC Pyt
2	—	—	5700	—	119	—	28.0	—	>1000	—	50	—	—	—	QUARTZ VEIN WITH MVC Pyt, Ap
3	—	—	—	—	—	—	—	—	—	—	< 5	—	—	—	PEGMATITE WITH MVC Pyt
4	—	—	—	—	—	—	—	—	—	—	18	—	—	—	GRANODIORITE WITH Pyt
5	—	—	265	—	1430	—	2.1	—	—	—	65	—	—	—	SILICIFIED INTRUSIVE
6	—	—	415	—	>8000	—	6.4	—	—	—	—	—	—	—	SPHALERITE IN BULL QUARTZ
7	—	—	290	—	1720	—	9.35	—	>1000	—	> 5	—	—	—	SILICIFIED PEGMATITE
8	—	—	776	—	8.2	—	0.75	—	>1000	—	18	—	—	—	SPHALERITE, MINOR GALENA IN SILICIFIED
9	—	—	1990	—	550	—	11.03	—	>1000	—	52	—	—	—	ARGENTOPYRITE, TETRAHEDRITE IN SILICIFIED GNEISS
20008	—	.01	—	.57	—	.01	3.07	—	—	.01	—	< .01	—	< .002	GALENA, TETRAHEDRITE IN QUARTZ
20009	—	.08	—	.15	—	.02	—	.61	—	.55	—	< .01	—	.002	ARGENTOPYRITE IN SILICIFIED GNEISS
20010	—	—	—	1.85	—	1.31	—	0.73	—	.01	—	.05	—	.008	GALENA IN SILICIFIED INTRUSIVE
20011	—	—	—	1.60	—	.50	—	25.67	—	.30	—	.06	—	.016	TETRAHEDRITE-GALENA BOULDER
20012	—	—	—	> .25	—	> .25	—	.09	—	.87	—	< .01	—	< .002	MINERALIZED QUARTZ VEIN
20017	32	—	515	—	165	—	—	.07	—	.02	—	< .01	—	.002	ARGENOPYRITE-PYRITE
20018	16	—	20	—	1000	—	—	.09	—	—	—	> .01	—	< .002	ALTERED INTRUSIVE
20019	28	—	1565	—	325	—	—	.16	—	.03	—	> .01	—	.005	SILICIFIED QUARTZ VEIN
20020	59	—	15	—	357	—	—	.14	—	—	—	> .01	—	< .002	IRON AND MANGANESE OXIDE
20021	40	—	19	—	3150	—	—	.10	—	—	—	> .01	—	< .002	OXIDE-ROCK ALTERED INTRUSIVE

NOTE: ALL GRAB SAMPLES

LITHOLOGY

CRETACEOUS

- 1 — GRANODIORITE TO QUARTZ MONZONITE – UNDIVIDED PEGMATITIC AND EQUIGRANULAR PHASES
- 1a — PEGMATITIC GRANODIORITE ; MINOR EQUIGRANULAR AND GRAPHIC TEXTURES
- 1c — PEGMATITIC GRANODIORITE; GRAPHIC TEXTURES DOMINANT
- 1d — PEGMATITIC GRANODIORITE; MINOR METASEDIMENTARY ROCKS

CRETACEOUS

- 2 — GRANODIORITE; EQUIGRANULAR; NON PEGMATITIC
- 2b — GRANODIORITE; EQUIGRANULAR; MINOR PEGMATITIC PHASES

LOWER CAMBRIAN AND EARLIER (?)

- 3 — BIOTITE-MUSCOVITE SCHIST; MINOR QUARTZITE

SYMBOLS

- APPROXIMATE GEOLOGICAL CONTACT
- JOINT ATTITUDE
- OUTCROP LIMIT
- SOIL SAMPLE SITE
- □ 25 — ROCK SAMPLE LOCATION RESULTS AS GIVEN FOR ASSAYS AND/OR ROCK GEOCHEMISTRY
- CUT LINE
- MINERALIZATION
  - Ag TETRAHEDRITE
  - As ARSENOPYRITE
  - Pb GALENA
  - Zn SPHALERITE
  - Py PYRITE
  - Cu CHALCOPYRITE
  - Qtz QUARTZ VEINING

GEOCHEMISTRY

- 110 ppm LEAD CONTOUR
- 100 ppm TIN CONTOUR
- 3.6 ppm SILVER CONTOUR

GEOPHYSICS

- DEFINITE I.P ANOMALY, 100m DIPOLE
- PROBABLE I.P ANOMALY, 100m DIPOLE

NOTE:
DRAINAGES FROM ORTHOPHOTO (BURNETT RESOURCES)

091601

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

COMPILATION MAP

LOGAN CLAIM GROUP
WOLF LAKE MAP AREA, N.T.S. 105B/7,8,9&10
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

SCALE 1" = 1,000
100 0 100 200 300 METRES

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OCTOBER 1984

PLATE 8