

MAP NO.: ASSESSMENT REPORT X
105 L 12 PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092835
MINING DISTRICT: Whitehorse
TYPE OF WORK: Geophysical, geochemical

REPORT FILED UNDER: Aurum Geological Consultants Inc.

DATE PERFORMED: September 1989

DATE FILED: April 23/90

LOCATION: LAT.: 62°04'N

AREA: Little Salmon

LONG.: 134°50'W

VALUE \$: 5,600

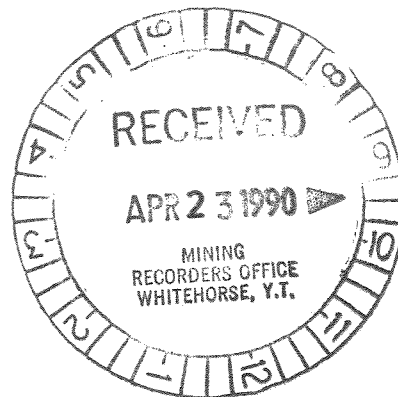
CLAIM NAME & NO.: GOO 3-10
GOO 51-56
MARBLE 1-10

WORK DONE BY: T. Garagan

WORK DONE FOR: Comaplex Minerals Corp.

DATE TO GOOD STANDING:

REMARKS: Alteration typical of Tertiary volcanic related epitherma precious metal deposits. Alteration zone resulted in strongly anomalous mercury and barium values (1000->5000 ppb Hg, up to 771 ppm Ba). Three or more VLF conductors were outlined on the GOO Zone One rock sample collected near an anomalous soil location returned 2054 ppm Cu and >1000 ppm Ga.



1989 EXPLORATION REPORT
on the
SNOWCAP PROJECT
MAGNETOMETER AND VLF-EM SURVEYS
ON THE GOO CLAIM

Claims: MARBLE 1-10 (YB26455-64)
GOO 3-10, 51-56 (YB26377-90)

Location: 1. 160 KM NE of Whitehorse, Yukon
2. NTS 105 L 12
3. Latitude: 62° 04'N
Longitude: 134° 50'W

FOR
COMAPLEX MINERALS CORP.
901, 1015 4TH STREET, SW
CALGARY, Alberta
T2R 1J4

BY
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WHITEHORSE, Y.T.

APRIL 14, 1990

002835

SUMMARY

The Snowcap project is located in the Little Salmon Lake area, Central Yukon Territory. Three claim groups comprising 24 mineral claims (MARBLE 1-4, MARBLE 5-10 and GOO 3-10,51-56) were located in the project area. Exploration consisted of geological mapping, prospecting, limited geochemical sampling, claim staking, and hand trenching. Ground magnetometer and VLF-EM surveys were carried out on the GOO claims.

The Snowcap area is underlain by Mississippian and earlier felsic schists in fault contact (NNW trending Big Salmon Fault) with Triassic mafic volcanics and limestone. Tertiary felsic subaerial volcanics unconformably overlie the older rocks in three areas along the Big Salmon Fault. Two of these; the MARBLE and GOO claim areas, probably represent Tertiary volcanic centers.

Two broad zones of quartz sericite alteration are located on the MARBLE claims and 2 (Goo and Skunk) areas of quartz-sericite, clay and quartz hematite alteration zones are associated with structures on the GOO claims. The Goo zone is situated at a fault contact between intensely clay and quartz-sericitic altered Tertiary rhyolite volcanics and quartz-hematite altered Mississippian felsic schists. The structure is covered, but is associated with a well defined magnetic low and three VLF-EM conductors. Soil samples collected from the zone contain up to 133 ppb gold, 1597 ppm barium and >5000 ppb mercury. Several samples of altered rhyolite contain strongly anomalous mercury values of >5000 ppb. Rock samples of hematite altered schist contain up to 51 ppb gold, >2000 ppm barium, 2054 ppm copper, and >1000 ppm gallium. A soil sample from the Skunk zone contains 151 ppb gold and a rock sample from altered volcanics on the MARBLE claims contains 79 ppb gold.

Alteration on the Goo zone and on the MARBLE claims is typical of Tertiary volcanic-related epithermal precious metal deposits. The Goo zone contains anomalous gold values associated with intense clay alteration and strongly anomalous mercury and barium values; all of which are typical of the upper levels in an epithermal system. The potential for locating epithermal vein mineralization in the Goo zone and on the MARBLE claims is good.

Results of 1989 exploration warrant further exploration in 1990. An initial program of \$55,000 is recommended.

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INTRODUCTION

This report describes exploration carried out on the Snowcap project, central Yukon Territory, between June 8 and September 22, 1989. The work was carried out by Aurum Geological Consultants on behalf of Comaplex Minerals Corp. (Calgary). Exploration in July and August consisted of prospecting, geological mapping, geochemical sampling, hand trenching and claim staking. The MARBLE 1-10 claim group and the GOO 3-10, 51-56 claims were staked in the northern and southern parts of the area respectively. A ground magnetometer and VLF-EM survey carried out on the GOO claims between September 19 and 22 is to be applied for assessment.

LOCATION, ACCESS AND TOPOGRAPHY

The Snowcap project is in a northwest trending 30 by 5 kilometer area located at the west end of Little Salmon Lake, central Yukon Territory. The project area is 70 kilometers east of Carmacks and 160 kilometers northeast of Whitehorse (Figure 1).

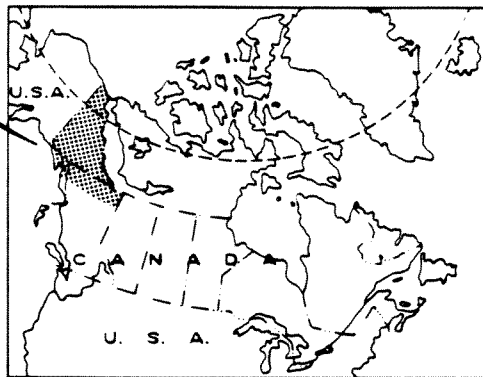
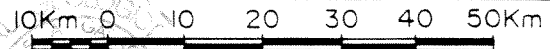
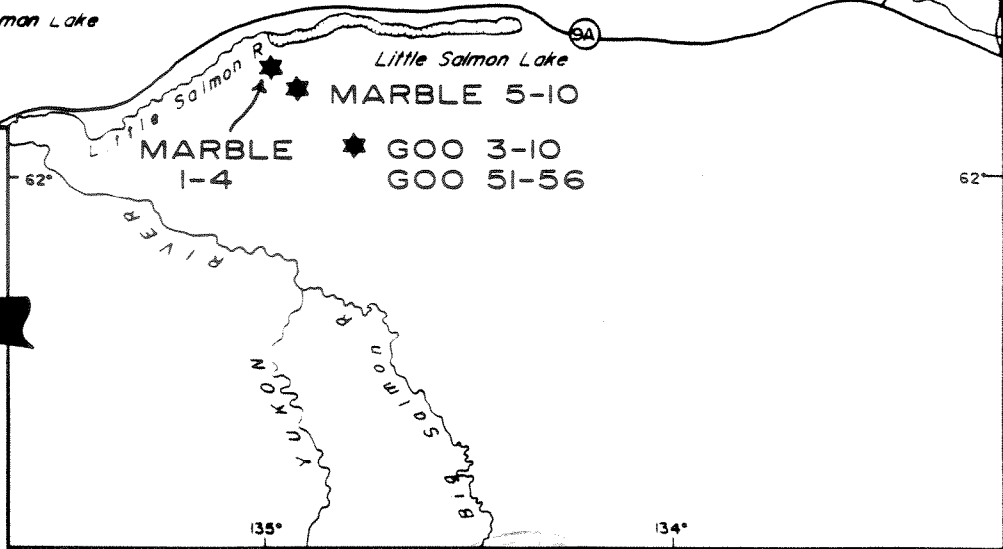
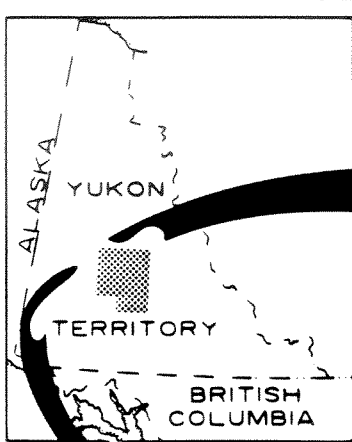
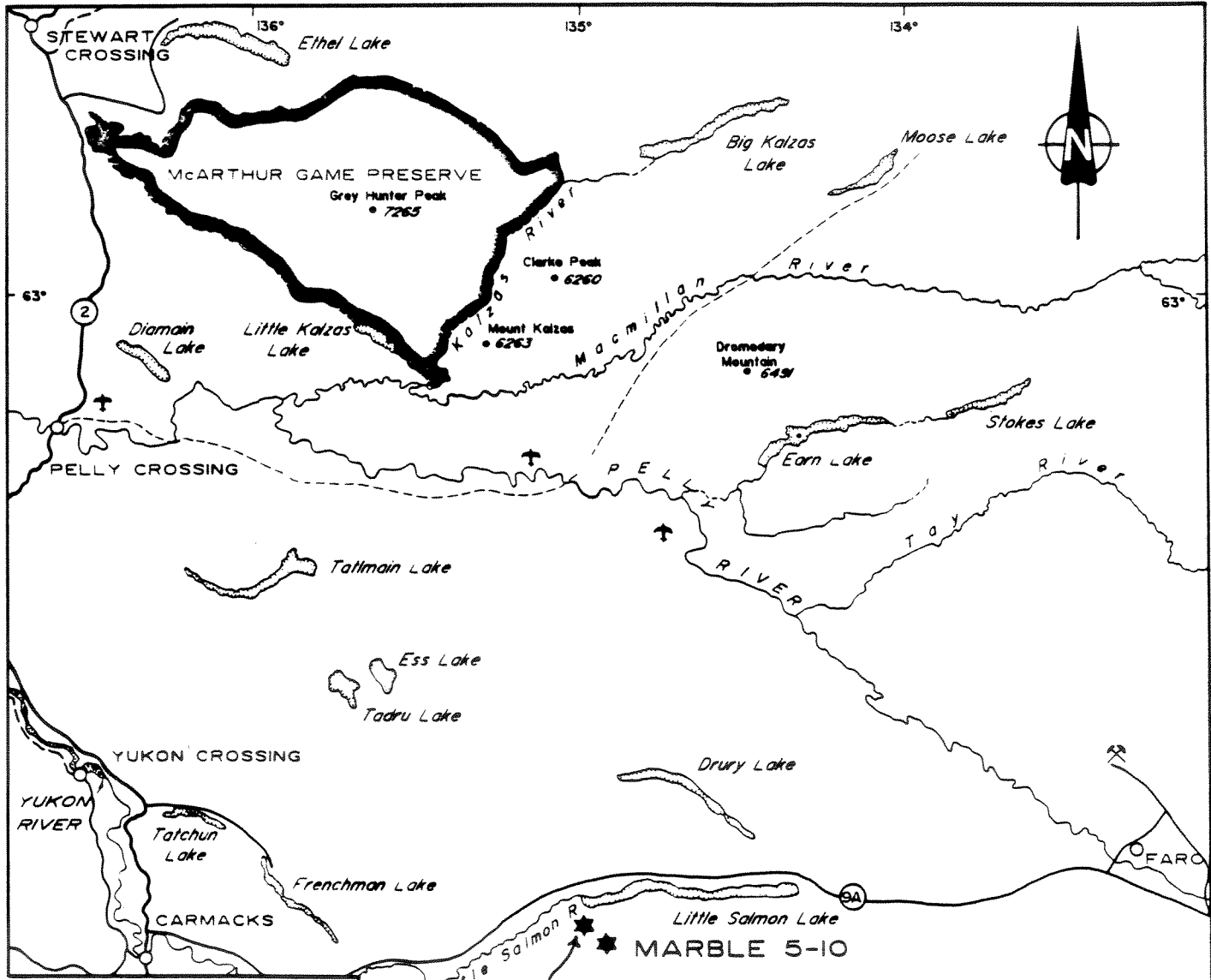
The Robert Campbell Highway and the Faro-Ross River powerline passes through the central part of the area. The MARBLE and GOO claims are respectively located 6 and 17 kilometers south of the highway. Access to the MARBLE claims is by boat across Little Salmon Lake and then by foot for 3.5 kilometers. Alternate access to the MARBLE claims and access to the rest of the area is via helicopter from Whitehorse or Carmacks.

The project area is situated in an area of rounded hills and mountains with broad U-shaped valleys. Elevations vary between 610 meters at Little Salmon Lake to 1190 meters south of the MARBLE claims. Elevations on the MARBLE and GOO claims are between 730 and 1100 meters and between 915 and 1130 meters respectively. Most of the project area is located within pine and spruce forest with thick alder bushes developed along creeks. The GOO claims are located within a recent burn.

Outcrop and talus exposures are restricted to steep slopes and creek valleys. There has been less than 5% bedrock exposure.

CLAIM STATUS

The MARBLE and GOO claims consist of 24 unsurveyed claims (MARBLE 1-4, MARBLE 5-10, GOO 3-10, 51-56) staked as 3 separate claim groups under the Yukon Quartz Mining Act. The claims are located within NTS 105L/2 of the Whitehorse Mining District. The claims are owned by Comaplex Minerals Corp. and are subject to an option agreement with A. Carlos of Whitehorse, Yukon. This



COMPLEX MINERALS CORP.	
MARBLE AND GOO CLAIMS WHITEHORSE MINING DISTRICT	
LOCATION	
Aurum Geological Consultants Inc.	JANUARY 1990
NTS 105 L/2	DRAWN BY NH SCALE 1:1,000,000 FIGURE: 1

agreement involves a final option payment of \$5,000 to be made July 1, 1990 and a 2.5% N.S.R.

Claim distribution is shown in Figure 2 and the claim status is tabulated below.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Recording Date</u>	<u>Expiry Date</u>
MARBLE 1-4	YB26455-58	July 14, 1989	July 14, 1990
MARBLE 5-10	YB26459-64	July 14, 1989	July 14, 1990
GOO 3-10,51-56	YB26377-90	July 5, 1989	July 5, 1994 *

* Subject to approval by Whitehorse Mining Recorder of geophysical program described herein.

HISTORY

The first known exploration carried out in the project area was by A. Carlos in 1985. A Grew Creek style epithermal target (also an A. Carlos property) was sought in subaerial Tertiary volcanics, mapped by Campbell (1967), along the Big Salmon fault zone. Work by Carlos consisted of stream sediment sampling, geological mapping, prospecting, rock sampling and hand trenching. Several areas of altered volcanics and several stream sediment anomalies were located.

The project area was brought to Aurum Geological Consultants Inc in the spring of 1989 and an option agreement was arranged with Comaplex Minerals Corp. of Calgary. The exploration carried out in 1989 is described in this report.

REGIONAL GEOLOGY

The Snowcap project area is underlain by the Big Salmon Fault Zone, a NNW trending Tertiary fault which separates low grade metamorphosed sediments and volcanics from high to moderate grade metamorphic rocks of the Teslin Suture Zone (Hansen, 1986, Grant Abbott pers comm, 1990). Mississippian and earlier felsic and mafic schists and gneisses occur on the east side of the fault zone in the Snowcap area. Triassic and earlier mafic volcanics and limestones are present on the west side of the fault zone (Figure 2).

Tertiary andesite, dacite, and rhyolite subaerial volcanics are exposed in 3 areas within the project area. Two of these areas (MARBLE and GOO) may represent Tertiary volcanic centers. The volcanics are thought to represent subaerial volcanics which formed as the result of extensional faulting on the Big Salmon Fault Zone. An analogous situation occurs in the Grew Creek area where Tertiary volcanics were localized along the Tintina Fault

Zone. No significant mineralization has been located within the area to date.

PROPERTY GEOLOGY, ALTERATION AND MINERALIZATION

GOO Claims

The GOO claims are underlain by Tertiary andesite, dacite and rhyolite subaerial volcanics and epiclastics. The volcanics are in fault contact with Mississippian or earlier quartz-sericite schist on the east side of the property (Figure 3). The volcanics unconformably overlie Triassic mafic volcanics to the north and west of the claim boundary. Tertiary volcanics are unconformably overlain by an extensive (0-5 meters?) veneer of glacial till and volcanic ash. Bedrock exposure is less than 5%.

The Tertiary volcanics consist of rhyolite, rhyodacite, dacite, and andesite flows, dykes and tuffs, and epiclastic rocks. Biotite porphyritic rhyodacite tuffs and flows are the most common rock. Rhyodacite flows and dykes are flow banded and spherulitic in the Goo zone. Bedded ash tuffs, massive tuffs with charcoaled wood fragments and epiclastic sediments are located west of the claim block.

The volcanics are centered on a prominent round hill with underlying rocks exposed in the surrounding valleys. The GOO claims area is interpreted to represent a Tertiary felsic volcanic center. The fault contact between schist and volcanics on the east side of the claim may represent a caldera boundary fault. It may also be a late splay of the Big Salmon Fault.

Two zones of intense alteration associated with faults have been located on the property. The Goo zone is located along a north-south fault on the east side of the claims and the Skunk zone is associated with a strong NE trending linear on the west side of the property.

The Goo alteration zone is located on a small saddle and in a north flowing creek valley. The zone occurs at the fault contact between Tertiary rhyolite tuffs, breccias, flows and dykes and Mississippian schists. The alteration zone is poorly exposed in small outcrops and hand dug pits in a 200 x 50 meter area. The zone trends approximately 350°; parallel to the rhyolite-schist contact. Several small zones of Fe-oxide precipitate are located in the creek approximately 150 meters north and down stream of the zone (Figure 4).

The rhyolite is moderately to intensely quartz-sericite and clay altered throughout the area. Primary volcanic structures are only recognized locally. The rhyolite contains trace pyrite and trace to 2% chalcedony veinlets. The quartz-sericite schist forms small resistant topographic knobs east of the creek. Alteration in the schist consists of intense hematitization and local silicification. The schist is highly fractured with quartz-barite-specularite stockwork developed throughout.

The Skunk zone is located adjacent to a topographic linear (gully) on the west side of the property. The zone covers roughly a 100 by 30 meter area and trends approximately 045°. It consists of jasper (local clay) altered and brecciated andesite. Jasper with chalcedony has replaced the breccia matrix and part of the fragments. Rare chalcedony veinlets cut the rocks. The extent of the zone is undefined. No outcrop is exposed in the gully forming the topographic linear.

MARBLE Claims

The MARBLE claims are underlain by Tertiary subaerial felsic volcanics (Figure 5). Triassic mafic volcanics are located west and southwest of the area. The Tertiary volcanics presumably unconformably overlie the Triassic rocks. A veneer of glacial till, covers most of the area. Several west and northwest trending eskers are located in the area. Outcrop is exposed in creek valleys and along steep slopes.

The Tertiary volcanics are comprised of rhyolite, dacite and andesite tuffs, flows and dykes. The dykes and flows usually consist of fine grained quartz-feldspar porphyritic rhyolite. Spherulitic and flow banded rhyolite is common. Tuffs are comprised of interlayered ash tuff and crystal-lithic lapilli tuff. The volcanics are poorly exposed and their inter-relationships are not known, however their roughly circular distribution suggests a Tertiary volcanic center in the immediate area.

There are at least two separate areas of quartz-sericite alteration on the MARBLE claims. Weak to moderate quartz-sericite altered rhyolite is exposed in small outcrops on a north facing slope in the MARBLE 5, 6 and 8 claims. A few boulders of intensely quartz-pyrite (5% pyrite) altered volcanics and minor chalcedony veining (1-5 mm wide veinlets) were located in this area. No mineralization or defined structure were located, however exposure is less than 1%.

A large altered exposure of rhyolite tuff cut by several spherulitic and flow banded rhyolite and narrow gas breccia dykes was mapped in Snowcap Creek in the MARBLE 1-4 claims. The

outcrop is weakly to moderately kaolinized and quartz sericite altered. Chalcedonic quartz flooding and minor veining is associated with the spherulitic dykes. Most of the silicified and veined zones are less than 50cm wide. One zone (sample #9301403) is 0.5 to 2.0 meters wide and contains 20% quartz veining and up to 10% pyrite. Quartz-sericite alteration intensity increases slightly at the western end of the exposure. The rhyolite at this location contains 5-10% dull green clay(?) and 5% pyrite (+ marcasite). This rock is locally vuggy due to complete replacement by silica and pyrite.

EXPLORATION

Introduction

Exploration in 1989 on the Snowcap project consisted of prospecting, geological mapping, geochemical sampling, hand trenching and claim staking in June and July. Flagged grid establishment, and magnetometer and VLF-EM surveying was carried out on the GOO claims in September. The geophysical work is being applied for assessment.

A total of 77 rock, 141 soil, 18 silt, and 6 heavy mineral concentrate samples were collected during the 1989 program. Samples were sent to Bondar-Clegg and Company Ltd (Whitehorse and Vancouver) for Au, Hg, and 29 element ICP analysis. The 29 elements are listed in Appendix A. Gold was analysed using standard fire assay/AA finish and the mercury was analysed by cold vapour AA with an $\text{HNO}_3\text{-HCl-SnSO}_4$ extraction. Results and sample descriptions are given in Appendix A and sample locations and gold and silver with significant mercury, barium and gallium results are plotted in Figures 2-5.

GOO Claims

A total of 27 rock, 69 soil, 14 silt and 6 heavy mineral concentrate samples were collected from the GOO claims and area. Several small pits were dug in the Goo Zone. A total of 4.8 line kilometers of VLF-EM and ground magnetometer surveys were carried out over the Goo zone and a single 325m long VLF-EM line was done on the Skunk zone. The geophysical survey parameters, data, contoured plotted data, and instrument descriptions are given in Appendix B.

Geochemistry

Several rock, soil, silt, and heavy mineral concentrate samples collected from the Goo zone contained strongly anomalous values of barium, gallium and mercury. Several samples were also moderately anomalous in gold, lead, copper and beryllium. Two consecutive soil samples collected 50 meters apart above an outcrop of hematite altered schist, contain 51 and 133 ppb gold. A third soil sample collected 100 meters south of these contains 29 ppb gold. Three rock samples (9302601-603) of hematite altered schist, collected adjacent to the 51 ppb gold soil anomaly, contain anomalous values of up to >2000 ppm Ba, 2054 ppm Cu, >1000 ppm Ga, 362 ppm Pb, 333 ppm V, and 738 ppm Zn. Sample number 9302601 also contained 130 ppm Ta and 52 ppm W and sample number 9302603 contained 3200 ppb Hg. No visible sulphides were noted when the samples were collected.

A total of 4 consecutive soil samples collected on the north west side of the sampled area contain between 11 and 58 ppb gold and 230 and 3900 ppb mercury. Six other soil samples collected on the west side of the creek in the vicinity of altered rhyolite outcrop contain mercury values between 1000 and >5000 ppb. Two panned soil samples from several pits dug in the area contain <5 and 79 ppb gold and 3250 and >5000 ppb mercury. Rock samples collected from the pits and outcrops of clay altered rhyolite contain strongly anomalous mercury values of 1500 to >5000 ppb. Barium and beryllium are also anomalous with values up to 771 ppm Ba and 32.3 ppm Be. A soil sample (9303205) collected 1.9 meters below surface in a pit adjacent to the projected trace of the structure contained 1597 ppm Ba, 60 ppm Zn, and >5000 ppb Hg.

Stream sediment samples collected from the creeks draining the Goo zone contain up to 35 ppb Au (A. Carlos sample; rest AGCI samples), 1444 ppm Ba, 92 ppm Be, 52 ppm Ga, 80 ppm Zn and 1000 ppb Hg.

One of several soil samples collected from the Skunk zone contained an anomalous value of 151 ppb gold. All other samples from this area contained low metal values.

Geophysics

At least three VLF-EM conductors were outlined in the Goo zone during the 1989 program (see maps, Appendix B). The three EM conductors are roughly parallel to the base line (170°) and are located between 0+75E and 1+50W. The eastern most conductor is associated with the fault between the volcanics and schist. The other 2 conductors may represent parallel structures. An

TABLE

5W01	<5, <0.2,
5W02	<5, <0.2, >5000
9303027	51, <0.2, 100
9302603	<5, <0.2, 3200, >2000ppm Ba
9302601	<5, <0.2, 300, >1000ppm Ga, >2000 ppm Ba
9302602	<5, <0.2, 65, >2000 ppm Ba

--- magnetic contacts - dashed lines represent magnetic lowside

--- VLF conductors

LEGEND

LITHOLOGIES

QUATERNARY, RECENT

5 glacial till, ash, overburden

TERTIARY

3 rhyolite, dacite, andesite, dykes, tuffs & flows, locally spherulitic and/or flow banded

MISSISSIPPIAN or earlier

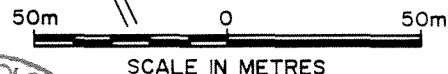
1 quartz-feldspar-muscovite schist, quartz-sericite schist

SYMBOLS

- stream
- claim post (location approx.)
- ≡ swamp
- - - geological contact (defined, approximate, assumed)
- ~ ~ ~ fault (defined, approximate, assumed)
- limit of 1989 geological mapping
- trench
- soil/till sample location
- x rock sample location
- stream sediment sample location
- △ heavy mineral sample location

GEOCHEMICAL RESULTS:

x 9304201 <5 <0.2 320
sample no. Au(ppb) Ag(ppm) Hg(ppb)
A.C. = previous Al Carlos sample



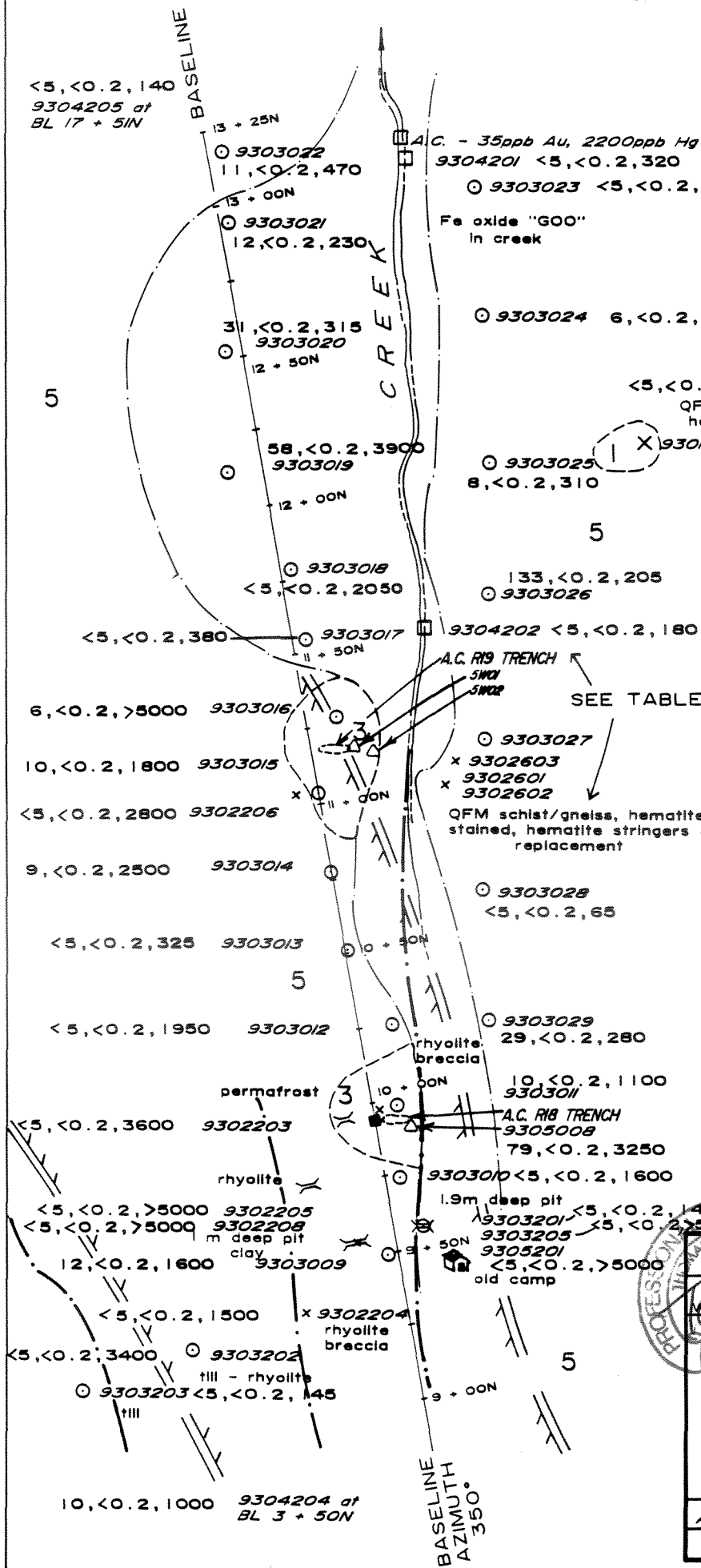
COMPLEX MINERALS CORP.
SNOWCAP PROJECT
WHITEHORSE MINING DISTRICT - YUKON TERRITORY

GOO ZONE

GEOLOGY AND GEOCHEMISTRY

Aurum Geological Consultants Inc. JUNE, 1989

NTS 105 L/2 DRAWN BY RH SCALE 1:2,000 FIGURE: 4



area of low magnetic response is located within the area defined by BL/11+50N, 0+25E/8+00N, 0+75W/8+00N and 1+25W/11+00N. This area is coincident with the three VLF-EM conductors and is thought to represent a zone of magnetite destructive clay alteration within the volcanics.

MARBLE CLAIMS

A total of 43 rock, 68 soil and three silt samples were collected in the Marble area. Six of 41 soil samples collected north of the large outcrop in Snowcap Creek contain moderately anomalous gold values of 13 to 41 ppb gold. Two of these samples are consecutive. A soil sample collected 200 meters north of Camp Lake on MARBLE 2 claim contained 55 ppb gold.

A rock sample of silicified rhyolite breccia found on a small outcrop in the MARBLE 6 claim contained 78 ppb gold. No other samples collected in this altered area contained anomalous precious metal values.

REGIONAL

A total of seven rock, one silt and four soil samples were collected in 2 areas north of the Robert Campbell highway (Figure 2). The silt sample was collected up creek to an A. Carlos 350 ppb gold anomaly in a heavy mineral concentrate sample. This sample contained 78 ppb gold and 1 ppm silver. The source of the anomaly is not known.

CONCLUSIONS AND RECOMMENDATIONS

The Snowcap project area is underlain by Mississippian felsic and mafic schists in fault contact with lower grade metamorphosed Triassic mafic volcanics and limestone. The NNW trending Big Salmon Fault Zone forms the contact between these two rock units. Tertiary felsic subaerial volcanics are located in three areas along the Big Salmon Fault Zone. Two of these, the MARBLE and GOO claim areas, probably represent paleovolcanic centers.

Two broad areas of quartz-sericite altered rhyolite have been found within the MARBLE claims and two areas of alteration (Skunk and Goo) are associated with fault zones on the GOO claims. The Goo zone is situated along a fault contact between intense clay and quartz-sericite altered Tertiary rhyolite volcanics and quartz-hematite altered Mississippian felsic schists. Three VLF-EM conductors and a magnetic low are associated with the zone. Soil samples collected from weathered altered rhyolite contain up to 58 ppb gold, 1597 ppm barium and >5000 ppb mercury. All samples of altered rhyolite contain

strongly anomalous mercury values of up to >5000 ppb. Soil samples collected from the hematite altered schist contain up to 133 ppb gold and rock samples from the schist contain up to 51 ppb gold, >2000 ppm barium, 2054 ppm copper and >1000 ppm gallium. A soil sample from the Skunk Zone contains 151 ppb gold. A rock sample collected from a silicified rhyolite breccia within a quartz-sericite alteration zone on the MARBLE claims contains 79 ppb gold.

Alteration on the Goo zone and on the MARBLE claims is consistent with Tertiary volcanic related epithermal precious metal deposits. The Goo zone contains intense clay alteration with a strong mercury-barium geochemical signature adjacent to an unexposed geologically, geophysically and topographically defined fault zone. Low gold anomalies in the soil samples suggest the presence of precious metals in a hydrothermal system. Anomalous gold values associated with intense clay alteration and strongly anomalous mercury and barium is typical of the upper levels in an epithermal system and the potential for locating such a deposit in the Goo zone is good. The nature of the gallium-copper mineralization within the hematite altered schist and its relationship to the clay altered zone (Goo Zone) and faulting is not known. According to Boyle (1974, pg.16) gallium is a rare metal and enriched in deposits of copper, zinc, aluminum and tin. This may indicate a second style of unrelated mineralization within the Goo zone. Further exploration is recommended.

Bedrock exposure on the MARBLE claims is poor. Regional systematic soil sampling and geophysical surveying (VLF-EM and Magnetometer) have not been carried out on the MARBLE claims, despite hosting a large area of hydrothermal alteration. The potential for locating epithermal mineralization within the alteration zone is good.

The results of exploration carried out in 1989 warrant followup work in 1990. The following program and budget is recommended.

GOO Claims

1. Systematic soil sampling with a hand auger in the Goo zone to help define the most anomalous zones along the structure.
2. Further rock sampling to explain the gallium-copper anomaly.
3. Extend the magnetometer and VLF-EM survey further north and south to define the Goo structures.
4. Trenching of the Goo zone lineament to locate structures in bedrock.

MARBLE Claims

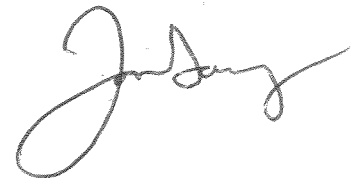
1. Reconnaissance soil sampling in the large alteration zone on the MARBLE 3-10 claims.
2. Reconnaissance ground magnetometer and VLF-EM surveys on the MARBLE claims to help locate structures presumably related to potential mineralization.

RECONAISSANCE

No further work.

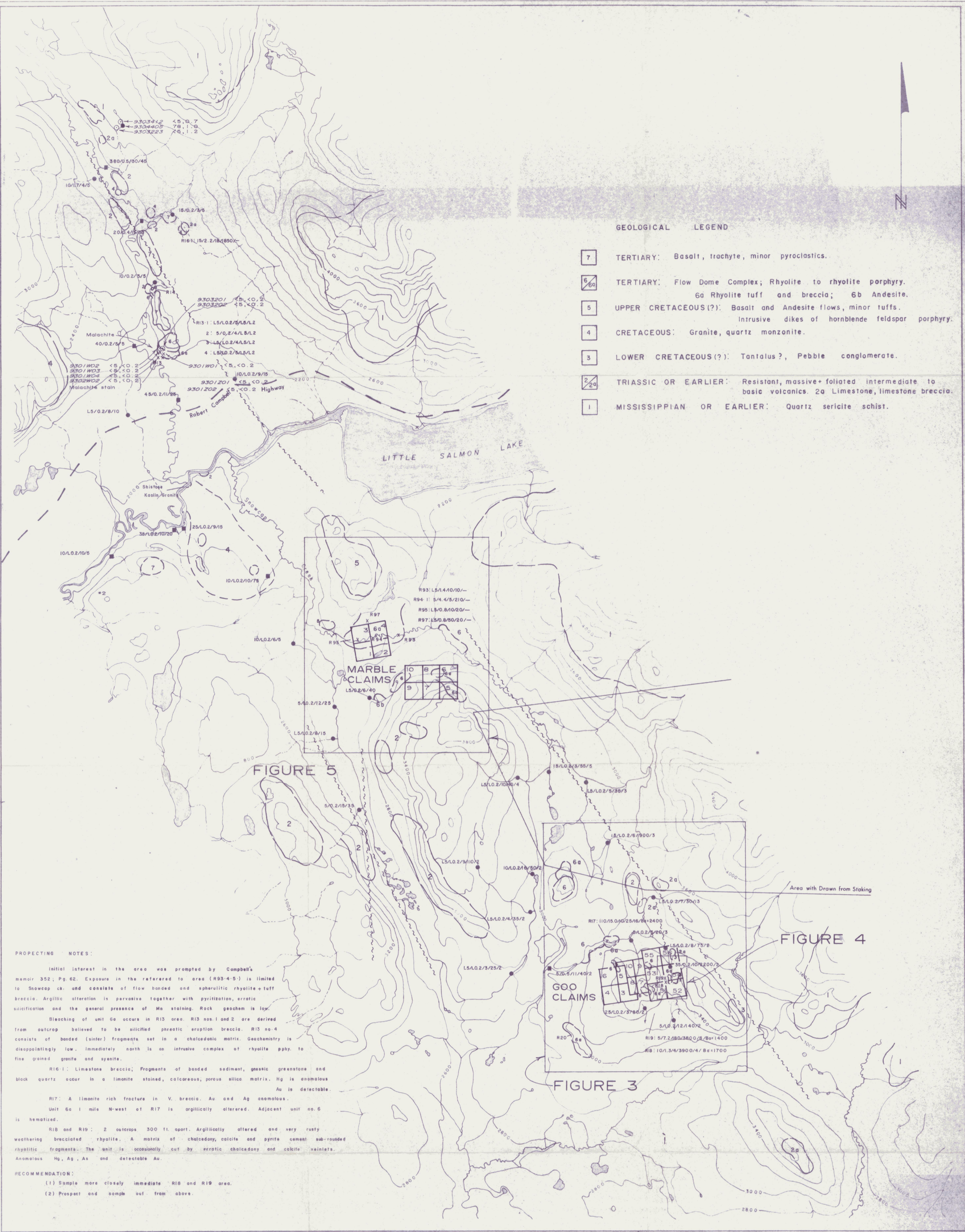
The following budget is recommended for the program.

Geology	\$ 15,000
Geochemistry	10,000
Geophysics	9,000
Helicopter	7,000
Camp Costs	2,000
Field Supplies	500
Boat	500
Fuel	200
Truck	500
Freight and Postage	300
Report Preparation	4,000
Assessment Fees	1,000
Contingencies	<u>5,000</u>
TOTAL	\$ 55,000



REFERENCES

- Boyle, R.W., 1974: Elemental Associations in Mineral Deposits and Indicator Elements of Interest in Geochemical Prospecting (Revised). G.S.C. Paper 74-45, 40 pages.
- Campbell, R.B., 1967: Geology of Glenlyon Map Area, Yukon Territory (105L) G.S.C. Memoir 352, 92 pages.
- Hanson, V.L., 1986: Petrotectonic study of the Teslin Suture Zone, Yukon: A Progress Report; in Yukon Geology, Vol. 1; Exploration and Geological Services Division, Yukon. Indian and Northern Affairs Canada, Pages 125-130.



GEOLOGICAL LEGEND

- 7 TERTIARY: Basalt, trachyte, minor pyroclastics.
- 6a TERTIARY: Flow Dome Complex; Rhyolite to rhyolite porphyry.
6a Rhyolite tuff and breccia; 6b Andesite.
- 5 UPPER CRETACEOUS(?): Basalt and Andesite flows, minor tuffs.
Intrusive dikes of hornblende feldspar porphyry.
- 4 CRETACEOUS: Granite, quartz monzonite.
- 3 LOWER CRETACEOUS(?): Tantalus?, Pebble conglomerate.
- 2a TRIASSIC OR EARLIER: Resistant, massive+foliated intermediate to basic volcanics. 2a Limestone, limestone breccia.
- 1 MISSISSIPPIAN OR EARLIER: Quartz sericite schist.

FIGURE 5

FIGURE 4

FIGURE 3

PROJECTING NOTES:

Initial interest in the area was prompted by Campbell's memoir 352; Pg. 62. Exposure in the referred to area (R93-4-5) is limited to Snowcap cr. and consists of flow banded and spherulitic rhyolite + tuff breccia. Argillic alteration is pervasive together with pyritization, erratic silicification and the general presence of Mn staining. Rock geochem is low.

Bleaching of unit 6a occurs in R13 area. R13 nos. 1 and 2 are derived from outcrop believed to be silicified phreatic eruption breccia. R13 no. 4 consists of banded (sinter) fragments set in a chalcedonic matrix. Geochemistry is disappointingly low. Immediately north is an intrusive complex of rhyolite pphy. to fine grained granite and syenite.

R16-1: Limestone breccia; Fragments of banded sediment, gneiss greenstone and black quartz occur in a limonite stained, calcareous, porous siliceous matrix. Au is anomalous.

R17: A limonite rich fracture in V. breccia. Au and Ag anomalous. Unit 6a 1 mile N-west of R17 is argillically altered. Adjacent unit no. 6 is hematized.

R18 and R19: 2 outcrops, 300 ft. apart. Argillically altered and very rusty weathering brecciated rhyolite. A matrix of chalcedony, calcite and pyrite cement sub-rounded rhyolitic fragments. The unit is occasionally cut by erratic chalcedony and calcite veinlets. Anomalous Hg, Ag, As and detectable Au.

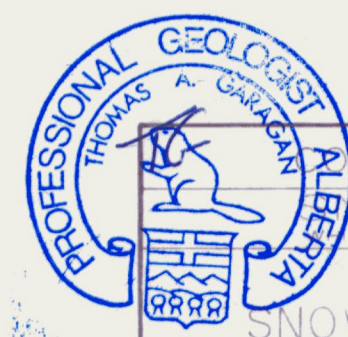
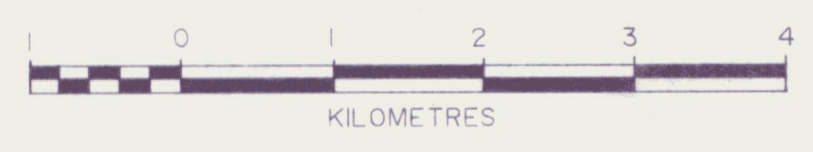
RECOMMENDATION:

- (1) Sample more closely immediate R18 and R19 area.
- (2) Prospect and sample out from above.

LEGEND

- soil/till sample location
- silt sample location
- pan sample location
- x rock sample location
- Au/Ag/As/Hg/W
- Au/Ag/As/Hg/Sb
- ~~~~~ Fault
- - - - - Outcrop Area

Au and Hg in ppb



0928345

MAPLEX MINERALS CORP.
SNOWCAP PROJECT
TEHORSE MINING DISTRICT - YUKON TERRITORY
SNOWCAP CREEK AREA, Y.T.

GEOLOGY & GEOCHEMISTRY
No MAP# Dec #092835 113
Aurum Geological Consultants Inc. JUNE 1989
NTS 105 L/2,346 DRAWN: A.M.C. SCALE 1:50,000 FIGURE: 2



TABLE I.

9303030	<5, <0.2, 10
9303035	<5, <0.2, 70
9303036	<5, <0.2, 80
9303037	<5, <0.2, 40
9303040	<5, <0.2, 30
9303041	8, <0.2, 15
9303042	6, <0.2, 70
9303043	<5, <0.2, 40
9303044	22, <0.2, 45
9303045	<5, <0.2, 15
9303046	<5, <0.2, 50
9303050	6, <0.2, 35
9303051	<5, <0.2, 30

SEE TABLE I.

- LITHOLOGIES**
- QUATERNARY, RECENT**
- 5 glacial fill, ash, overburden
- TERTIARY**
- 4 basalt, basalt tuff
 - 3 rhyolite, dacite, andesite, dykes, tuffs, and flows, locally spherulitic and/or flow banded
 - 3a - tuffs, lapilli tuffs
 - 3b - epiclastics
 - 3c - andesite
- TRIASSIC or earlier**
- 2 foliated intermediate to basic volcanic rocks
- MISSISSIPPIAN or earlier**
- 1 quartz-feldspar-muscovite schist, quartz-sericite schist

- LEGEND**
- geological contact (defined, approximate, assumed)
 - fault (defined, approximate, assumed)
 - attitude of bedding (inclined, vertical, dip unknown)
 - attitude of jointing (inclined, vertical, dip unknown)
 - limit of 1989 geological mapping
 - trench
 - rubble/float
 - quartz vein
 - lake, swamp
 - stream
 - esker
 - claim post (approximate location)

- SYMBOLS**
- soil/till sample location
 - × rock sample location
 - stream sediment sample location
 - △ heavy mineral sample location
- GEOCHEMICAL RESULTS**
- sample number Au (ppb) Ag (ppm) Hg (ppb)
- ABBREVIATIONS:**
- py - pyrite
 - hem - hematite
 - sil - silicification
 - lm - limonite
 - jp - jasper
 - ch - chalcodony

100m 0 100 200 300 400 500 600 700m
SCALE IN METRES

COMPLEX MINERALS CORP.
SNOWCAP PROJECT
WHEHORSE MINING DISTRICT - YUKON TERRITORY

GEOLOGY & GEOCHEMISTRY

GOO CLAIMS AREA
0928345
114

No Map# Doc# 092835
Aurum Geological Consultants Inc. JUNE, 1989
NTS 105 L/2 DRAWN BY TG SCALE 1:10,000 FIGURE: 3



LEGEND

LITHOLOGIES

QUATERNARY, RECENT

5 glacial till, ash, overburden

TERTIARY

4 basalt, basalt tuff

3 rhyolite, dacite, andesite, dykes, tuffs, and flows, locally spherulitic and/or flow banded
 3a - tuffs, lapilli tuffs
 3b - epiclastics
 3c - andesite

TRIASSIC or earlier

2 foliated intermediate to basic volcanic rocks

MISSISSIPPIAN or earlier

1 quartz-feldspar-muscovite schist, quartz-sericite schist

SYMBOLS

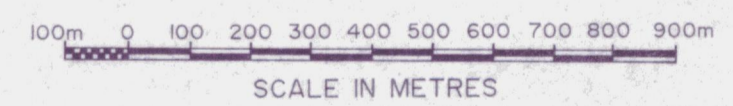
- geological contact (defined, approximate, assumed)
- fault (defined, approximate, assumed)
- attitude of bedding (inclined, vertical, dip unknown)
- attitude of jointing (inclined, vertical, dip unknown)
- limit of 1989 geological mapping
- trench
- rubble/float
- quartz vein
- lake, swamp
- stream
- esker
- claim post (approximate location)
- soil/till sample location
- rock sample location
- stream sediment sample location
- heavy mineral sample location

GEOCHEMICAL RESULTS

x 930408 < 5 0.8

sample number Au (ppb) Ag (ppm)

ABBREVIATIONS: py - pyrite jp - jasper
 hem - hematite ch - chalcedony
 sil - silicification cl - clay
 lim - limonite sc - sericite

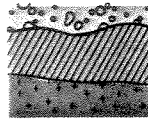


COMAPLEX MINERALS CORP.
SNOWCAP PROJECT
 WHITEHORSE MINING DISTRICT - YUKON TERRITORY

MARBLE CLAIMS AREA
GEOLOGY and GEOCHEMISTRY

092835
 NeMap Inc #092835
 Aurum Geological Consultants Inc. JUNE, 1989
 NTS 105 L/2&3 DRAWN BY TG SCALE 1:2,500 FIGURE: 5

APPENDIX A
ANALYTICAL RESULTS AND SAMPLE DESCRIPTION SHEETS



REPORT: W09-03500.0 (COMPLETE)

REFERENCE INFO:

CLIENT: AURUM GEOLOGICAL CONSULTANTS INC.

SUBMITTED BY: R. HALSTEIN

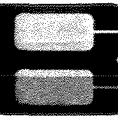
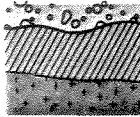
PROJECT: 30

DATE PRINTED: 28-JUN-89

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU GOLD	25	5 PPB	FIRE ASSAY	FIRE ASSAY AA
2	AG SILVER	25	0.2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
3	AS ARSENIC	25	5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
4	BA BARIUM	25	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
5	BE BERYLLIUM	25	0.5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
6	BI BISMUTH	25	2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
7	CD CADMIUM	25	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
8	CE CERIUM	25	5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
9	CO COBALT	25	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
10	CR CHROMIUM	25	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
11	CU COPPER	25	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
12	GA GALLIUM	25	2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
13	LA LANTHANUM	25	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
14	LI LITHIUM	25	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
15	MO MOLYBDENUM	25	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
16	NB NIOBIUM	25	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
17	NI NICKEL	25	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
18	PB LEAD	25	2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
19	RB RUBIDIUM	25	20 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
20	SB ANTIMONY	25	5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
21	SC SCANDIUM	25	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
22	SN TIN	25	20 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
23	SR STRONTIUM	25	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
24	TA TANTALUM	25	10 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
25	TE TELLURIUM	25	10 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
26	V VANADIUM	25	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
27	W TUNGSTEN	25	10 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
28	Y YTTRIUM	25	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
29	ZN ZINC	25	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
30	ZR ZIRCONIUM	25	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA

Bondar-Clegg & Company Ltd.

136 Industrial Road
Whitehorse, Yukon Territory Y1A 2V1
Phone: (403) 667-6523
Telex: 036-8-460



BONDAR-CLEGG

**Geochemical
Lab Report**

REPORT: V29 03500.0 (COMPLETE)

REFERENCE INFO:

CLIENT: AURUM GEOLOGICAL CONSULTANTS INC.

SUBMITTED BY: R. HALSTEIN

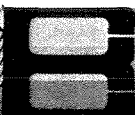
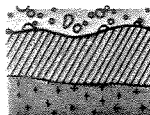
PROJECT: 30

DATE PRINTED: 28-JUN-89

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
S SOILS	9	1 -80	9	DRY, SIEVE -80	9
R ROCK OR BED ROCK	16	2 -150	16	CRUSH,PULVERIZE -150	16

REPORT COPIES TO: AURUM GEOLOGICAL
AURUM GEOLOGICAL
COMPLEX MINERALS CORP.

INVOICE TO: AURUM GEOLOGICAL
AURUM GEOLOGICAL



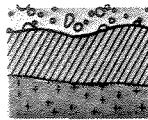
REPORT: V89-07500.0

DATE PRINTED: 28-JUN-89

PROJECT: 30

PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	AU PPD	AG PPM	AS PPM	BA PPM	BE PPM	BI PPM	CD PPM	CE PPM	CO PPM	CR PPM	CU PPM
S1 9303201	<i>RN N</i>	<5	<0.2	<5	236	<0.5	10	<1	17	16	38	22
S1 9303202		<5	<0.2	<5	111	<0.5	8	<1	24	7	34	11
S1 9303001		<5	<0.2	86	117	<0.5	8	<1	84	7	14	22
S1 9303002		7	0.7	180	40	<0.5	7	<1	161	<1	2	7
S1 9303003		10	0.5	307	124	<0.5	12	<1	35	2	2	13
S1 9303004	<i>multiple f at</i>	13	0.3	21	395	<0.5	11	4	546	8	17	27
S1 9303005		<5	<0.2	24	133	0.8	8	<1	211	6	12	21
S1 9303006		19	<0.2	86	206	1.6	13	2	1210	7	17	25
S1 9303007		<5	<0.2	54	177	<0.5	11	<1	299	11	18	33
R2 9301W01		9	<0.2	<5	126	<0.5	7	<1	67	4	42	18
R2 9301W02	<i>Ray N.H.</i>	<5	<0.2	<5	93	<0.5	12	<1	82	12	65	29
R2 9301W03		<5	<0.2	<5	26	<0.5	4	<1	88	<1	40	5
R2 9301W04		<5	<0.2	<5	46	<0.5	5	<1	139	<1	50	8
R2 9301Z01		<5	<0.2	<5	42	<0.5	5	<1	161	1	28	5
R2 9301Z02		<5	<0.2	<5	42	<0.5	6	<1	161	1	29	5
R2 9301200	<i>multiple manote</i>	<5	<0.2	<5	34	<0.5	9	<1	103	7	32	8
R2 9301202		<5	<0.2	<5	38	<0.5	7	<1	21	<1	36	4
R2 9301400		<5	<0.2	<5	30	<0.5	6	<1	43	<1	55	6
R2 9301401		<5	<0.2	12	13	<0.5	2	<1	6	<1	43	3
R2 9301402		<5	<0.2	<5	14	1.3	3	<1	102	<1	42	3
R2 9301403	<i>N multiple at crest</i>	17	0.4	432	38	<0.5	4	<1	89	<1	48	5
R2 9301404		<5	<0.2	<5	49	2.4	4	<1	178	<1	27	3
R2 9302W01		<5	<0.2	<5	106	<0.5	7	<1	107	7	30	10
R2 9302201		<5	<0.2	35	41	<0.5	6	<1	9	<1	55	3
R2 9302202		<5	<0.2	235	8	1.0	4	<1	138	<1	42	2



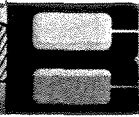
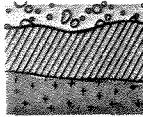
REPORT: VDP-07500-0

DATE PRINTED: 28-JUN-89

PROJECT: 30

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SAMPLE NUMBER	ELEMENT UNITS	GA PPM	LA PPM	LI PPM	NO PPM	NB PPM	NI PPM	PB PPM	RB PPM	SB PPM	SC PPM	SN PPM
S1 9303201		10	8	15	2	<1	28	33	<20	17	5	<20
S1 9303202		10	10	10	<1	<1	17	17	<20	13	3	<20
S1 9303001		8	30	7	5	2	16	33	<20	13	3	<20
S1 9303002		6	134	2	7	<1	6	178	<20	10	2	<20
S1 9303003		4	18	4	10	<1	4	61	27	13	3	<20
S1 9303004		26	232	13	7	3	17	63	20	15	4	<20
S1 9303005		11	93	7	3	<1	13	41	<20	10	4	<20
S1 9303006		29	590	11	19	2	14	67	24	16	9	<20
S1 9303007		14	152	9	4	1	21	30	<20	13	4	<20
R2 9301W01		11	33	3	1	<1	3	14	<20	8	3	<20
R2 9301W02		8	35	9	2	1	19	15	<20	14	4	<20
R2 9301W03		6	41	2	4	2	<1	10	<20	<5	5	<20
R2 9301W04		6	57	1	3	<1	1	12	<20	6	8	42
R2 9301Z01		6	73	2	3	<1	1	15	24	<5	10	<20
R2 9301Z02		6	74	2	3	<1	1	14	<20	<5	10	<20
R2 9301200		13	50	18	4	2	5	25	<20	14	3	<20
R2 9301202		4	10	4	4	<1	<1	15	<20	<5	<1	<20
R2 9301400		5	23	3	2	<1	1	26	<20	6	1	<20
R2 9301401		3	3	1	2	<1	<1	25	<20	<5	<1	<20
R2 9301402		7	50	4	3	2	48	19	<20	6	3	<20
R2 9301403		4	51	3	4	<1	2	72	<20	9	1	<20
R2 9301404		7	100	2	10	<1	<1	18	<20	<5	1	<20
R2 9302W01		10	50	14	2	<1	4	12	<20	8	6	<20
R2 9302201		3	4	2	2	<1	1	20	<20	<5	<1	<20
R2 9302202		9	69	2	3	<1	1	23	<20	<5	2	<20



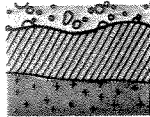
REPORT: W89-03500.0

DATE PRINTED: 28-JUN-89

PROJECT: 30

PAGE 10

SAMPLE NUMBER	ELEMENT UNITS	SR PPM	TA PPM	TE PPM	V PPM	W PPM	Y PPM	ZN PPM	ZR PPM
S1 9303Z01		25	<10	<10	57	<10	3	73	1
S1 9303Z02		24	<10	<10	55	<10	3	53	4
S1 9303001		27	<10	<10	20	<10	14	122	3
S1 9303002		8	<10	<10	5	<10	30	137	9
S1 9303003		22	<10	<10	7	<10	0	104	7
S1 9303004		43	<10	<10	25	<10	49	405	7
S1 9303005		19	<10	<10	20	<10	26	168	4
S1 9303006		16	<10	<10	25	<10	131	403	9
S1 9303007		23	<10	<10	30	<10	49	203	4
R2 9301W01		14	<10	<10	18	<10	8	52	16
R2 9301W02		54	<10	<10	135	<10	22	56	4
R2 9301W03		4	<10	<10	2	<10	14	47	33
R2 9301W04		5	<10	<10	2	<10	18	83	34
R2 9301Z01		6	<10	<10	2	<10	22	88	52
R2 9301Z02		5	<10	<10	2	<10	23	96	55
R2 9301200		38	<10	<10	30	<10	14	93	5
R2 9301202		2	<10	<10	<1	<10	5	26	6
R2 9301400		2	<10	<10	<1	<10	5	31	8
R2 9301401		2	<10	<10	<1	<10	2	18	5
R2 9301402		10	<10	<10	<1	<10	10	73	19
R2 9301403		10	<10	<10	1	<10	14	92	7
R2 9301404		3	<10	<10	1	<10	29	65	7
R2 9302W01		20	<10	<10	83	<10	18	240	14
R2 9302201		2	<10	<10	<1	<10	3	22	7
R2 9302202		4	<10	<10	<1	<10	21	111	5



REPORT: V89-03505.0 (COMPLETE)

REFERENCE INFO:

CLIENT: AURUM GEOLOGICAL CONSULTANTS INC.

SUBMITTED BY: T. GARAGAN

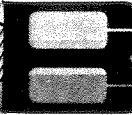
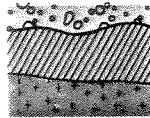
PROJECT: 30

DATE PRINTED: 30 JUN 89

ORDER	ELENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU GOLD - FIRE ASSAY	71	5 PPB	FIRE-ASSAY	FIRE ASSAY AA
2	AG SILVER	71	0.2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
3	AS ARSENIC	71	5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
4	BA BARIUM	71	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
5	BE BERYLLIUM	71	0.5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
6	BI BISMUTH	71	2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
7	CB CADMIUM	71	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
8	CE CERIUM	71	5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
9	CO COBALT	71	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
10	CR CHROMIUM	71	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
11	CU COPPER	71	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
12	CA CALCIUM	71	2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
13	LA LANTHANUM	71	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
14	LI LITHIUM	71	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
15	MO MOLYBDENUM	71	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
16	NB NIOBIUM	71	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
17	NI NICKEL	71	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
18	PB LEAD	71	2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
19	RB RUBIDIUM	71	20 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
20	SB ANTIMONY	71	5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
21	SC SCANDIUM	71	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
22	SN TIN	71	20 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
23	SR STRONTIUM	71	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
24	TA TANTALUM	71	10 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
25	TE TELLURIUM	71	10 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
26	V VANADIUM	71	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
27	W TUNGSTEN	71	10 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
28	Y YTTRIUM	71	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
29	ZN ZINC	71	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
30	ZR ZIRCONIUM	71	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
31	HG MERCURY	71	5 PPB	HNO3-HCL-SMSD4	COLD VAPOUR AA

Bondar-Clegg & Company Ltd.

136 Industrial Road
Whitehorse, Yukon Territory Y1A 2V1
Phone: (403) 667-6523
Telex: 036-8-460



BONDAR-CLEGG

**Geochemical
Lab Report**

REPORT: V89-03507.0 (COMPLETE)

REFERENCE INFO:

CLIENT: AURUM GEOLOGICAL CONSULTANTS INC.

SUBMITTED BY: T. GARAGAN

PROJECT: 30/SNOWCAP

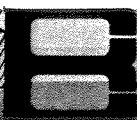
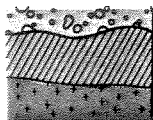
DATE PRINTED: 30 JUN 89

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	26	2 -150	26	CRUSH+PULVERIZE -150	26

REMARKS: RE VALUES BY ICP HAVE BEEN ELEVATED DUE TO INTERFERENCE BY FE AND CA.

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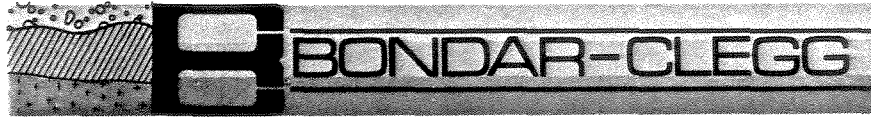
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SAMPLE NUMBER	ELEMENT UNITS	AU PPB	AG PPM	AS PPM	BA PPM	BE PPM	BI PPM	CD PPM	CE PPM	CO PPM	CR PPM	CU PPM
S1 9303009		12	<0.2	41	230	<0.5	10	<1	40	10	33	21
S1 9303010		<5	<0.2	29	176	<0.5	8	<1	30	7	30	18
S1 9303011		10	<0.2	14	148	<0.5	7	<1	13	5	29	22
S1 9303012		<5	<0.2	14	221	0.7	5	<1	30	22	29	16
S1 9303013		<5	<0.2	18	344	<0.5	8	<1	34	8	27	23
S1 9303014		9	<0.2	13	305	<0.5	8	<1	32	16	79	25
S1 9303015		10	<0.2	13	219	1.2	4	<1	33	8	17	17
S1 9303016		6	<0.2	16	321	0.7	7	<1	55	23	35	26
S1 9303017		5	<0.2	19	270	<0.5	5	<1	28	8	19	16
S1 9303018		<5	<0.2	10	178	<0.5	4	<1	25	9	35	20
S1 9303019		58	<0.2	14	249	<0.5	8	<1	32	21	51	27
S1 9303020		31	<0.2	13	142	<0.5	5	<1	23	6	20	12
S1 9303021		12	<0.2	16	152	<0.5	5	<1	29	8	22	17
S1 9303022		11	<0.2	20	266	<0.5	5	<1	31	9	21	26
S1 9303023		<5	0.2	12	158	<0.5	6	2	24	6	23	26
S1 9303024		6	<0.2	19	242	<0.5	9	<1	32	8	25	30
S1 9303025		8	<0.2	24	278	<0.5	7	<1	28	7	24	35
S1 9303026		133	<0.2	24	297	<0.5	10	<1	31	17	19	49
S1 9303027		51	<0.2	17	538	<0.5	2	<1	13	3	7	15
S1 9303028		<5	<0.2	16	355	<0.5	4	<1	29	4	13	12
S1 9303029		29	<0.2	13	131	<0.5	7	<1	26	10	27	21
S1 9303030		<5	<0.2	<5	25	<0.5	<2	<1	9	1	3	4
S1 9303031		27	<0.2	<5	111	<0.5	7	<1	36	8	30	14
S1 9303032		6	<0.2	6	164	<0.5	7	<1	40	9	29	17
S1 9303033		6	<0.2	11	181	<0.5	7	<1	34	10	27	22
S1 9303034		<5	0.2	11	161	<0.5	4	<1	33	7	22	13
S1 9303035		<5	<0.2	7	157	<0.5	9	<1	36	10	35	11
S1 9303037		<5	<0.2	10	148	<0.5	11	<1	34	10	32	17
S1 9303038		<5	<0.2	8	176	0.6	6	<1	37	8	26	19
S1 9303039		14	<0.2	<5	174	0.8	9	<1	35	9	29	12
S1 9303040		<5	<0.2	6	138	<0.5	6	<1	25	6	18	11
S1 9303041		8	<0.2	<5	124	0.8	5	<1	27	7	25	22
S1 9303042		6	<0.2	13	196	1.4	7	<1	46	8	25	24
S1 9303043		<5	<0.2	5	255	0.7	4	<1	34	7	19	12
S1 9303044		22	<0.2	10	200	0.9	4	<1	25	6	18	23
S1 9303045		<5	<0.2	16	156	1.2	6	<1	27	8	24	21
S1 9303046		<5	<0.2	13	158	1.7	6	<1	34	8	28	17
S1 9303047		<5	<0.2	11	188	1.6	6	<1	37	9	27	23
S1 9303048		<5	<0.2	9	157	1.5	5	<1	36	7	20	17
S1 9303049		<5	<0.2	18	156	1.8	7	<1	36	7	25	19



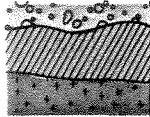
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SAMPLE NUMBER	ELEMENT UNITS	GA PPM	LA PPM	LI PPM	NO PPM	NB PPM	NI PPM	PB PPM	RB PPM	SB PPM	SC PPM	SN PPM
SI 9303009		8	20	15	<1	<1	20	13	39	12	4	<20
SI 9303010		7	16	17	<1	<1	17	11	27	11	3	<20
SI 9303011		5	7	6	<1	<1	13	5	70	6	4	<20
SI 9303012		9	15	13	<1	<1	18	11	43	7	3	<20
SI 9303013		4	16	11	<1	<1	18	9	21	8	4	<20
SI 9303014		3	16	5	<1	<1	24	10	59	6	15	<20
SI 9303015		<2	15	1	2	<1	12	17	39	6	11	<20
SI 9303016		5	23	2	<1	<1	27	12	55	8	17	<20
SI 9303017		3	13	11	<1	<1	12	8	72	5	4	<20
SI 9303018		<2	13	3	<1	<1	14	8	47	<5	13	<20
SI 9303019		3	16	3	2	<1	31	15	<20	6	19	<20
SI 9303020		4	12	10	<1	<1	11	5	25	5	2	<20
SI 9303021		4	14	8	<1	<1	15	10	49	7	2	<20
SI 9303022		5	16	6	<1	<1	22	8	45	8	4	<20
SI 9303023		4	12	12	<1	<1	18	193	67	7	3	<20
SI 9303024		6	17	15	<1	<1	15	12	61	10	3	<20
SI 9303025		5	15	11	1	<1	15	13	55	8	4	<20
SI 9303026		8	16	10	<1	<1	11	22	43	8	4	<20
SI 9303027		11	7	2	<1	<1	3	24	29	<5	<1	<20
SI 9303028		6	16	6	<1	1	8	22	52	7	2	<20
SI 9303029		8	12	10	1	2	20	16	89	15	3	<20
SI 9303030		3	3	<1	<1	<1	3	3	83	<5	<1	<20
SI 9303031		9	16	12	2	2	20	16	66	14	3	<20
SI 9303032		8	20	15	1	3	20	15	91	12	4	<20
SI 9303033		8	16	10	<1	3	21	18	85	15	4	<20
SI 9303034		5	15	10	1	3	16	14	81	10	3	<20
SI 9303035		10	15	18	1	2	20	16	70	19	4	<20
SI 9303037		9	17	19	<1	2	23	17	74	16	3	<20
SI 9303038		5	17	14	<1	2	23	15	81	12	3	<20
SI 9303039		8	17	16	1	2	17	16	106	15	3	<20
SI 9303040		5	12	9	<1	2	13	10	38	10	2	<20
SI 9303041		7	12	14	1	<1	19	10	149	10	2	<20
SI 9303042		7	22	8	1	1	22	17	82	12	4	<20
SI 9303043		5	16	9	<1	2	14	11	54	9	3	<20
SI 9303044		<2	12	8	<1	3	16	12	60	11	3	<20
SI 9303045		6	12	9	1	1	18	15	44	10	3	<20
SI 9303046		7	15	9	1	2	21	16	42	14	3	<20
SI 9303047		8	17	13	<1	3	22	19	82	13	4	<20
SI 9303048		5	17	8	1	3	17	17	68	11	3	<20
SI 9303049		5	17	9	<1	3	21	22	102	12	4	<20



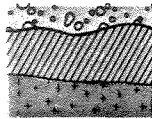
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SAMPLE NUMBER	ELEMENT UNITS	SR PPM	TA PPM	TE PPM	V PPM	W PPM	Y PPM	ZN PPM	ZR PPM	HG PPB
51 9303009		20	<10	<10	45	<10	6	52	1	1600
51 9303010		14	<10	<10	42	<10	4	59	2	1600
51 9303011		19	<10	<10	69	<10	2	53	2	1100
51 9303012		30	<10	<10	44	<10	6	48	<1	1950
51 9303013		23	<10	<10	42	<10	6	53	<1	325
51 9303014		36	<10	<10	84	<10	14	76	<1	2500
51 9303015		41	<10	<10	26	<10	11	82	2	1800
51 9303016		74	<10	<10	76	<10	14	100	2	>5000
51 9303017		36	<10	<10	30	<10	8	52	<1	380
51 9303018		46	<10	<10	43	<10	14	65	6	2050
51 9303019		32	<10	<10	80	<10	21	104	4	3900
51 9303020		18	<10	<10	35	<10	4	41	<1	315
51 9303021		22	<10	<10	37	<10	4	52	<1	230
51 9303022		30	<10	<10	36	<10	9	56	5	470
51 9303023		22	<10	<10	42	<10	5	150	<1	1150
51 9303024		13	<10	<10	46	<10	5	59	<1	310
51 9303025		18	<10	<10	41	<10	6	55	<1	950
51 9303026		28	<10	<10	42	<10	5	40	<1	205
51 9303027		22	<10	<10	19	<10	3	24	<1	100
51 9303028		17	<10	<10	21	<10	6	35	<1	65
51 9303029		19	<10	<10	46	<10	4	52	3	280
51 9303030		8	<10	<10	17	<10	1	14	<1	10
51 9303031		18	<10	<10	41	<10	6	68	<1	25
51 9303032		27	<10	<10	42	<10	8	74	1	30
51 9303033		34	<10	<10	44	<10	7	87	2	75
51 9303034		32	<10	<10	39	<10	6	64	2	120
51 9303035		25	<10	<10	52	<10	5	71	2	70
51 9303037		18	<10	<10	47	<10	5	63	1	40
51 9303038		27	<10	<10	38	<10	6	65	1	40
51 9303039		20	<10	<10	48	<10	5	64	1	5
51 9303040		20	<10	<10	35	<10	4	51	<1	30
51 9303041		18	<10	<10	47	<10	4	67	<1	15
51 9303042		27	<10	<10	37	<10	11	47	3	70
51 9303043		32	<10	<10	26	<10	7	70	<1	40
51 9303044		29	<10	<10	34	<10	6	47	2	45
51 9303045		21	<10	<10	38	<10	5	44	<1	15
51 9303046		25	<10	<10	37	<10	7	58	3	50
51 9303047		26	<10	<10	37	<10	9	70	3	70
51 9303048		27	<10	<10	29	<10	9	63	2	100
51 9303049		22	<10	<10	34	<10	10	70	2	135



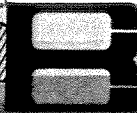
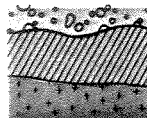
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SAMPLE NUMBER	ELEMENT UNITS	AU PPB	AG PPM	AS PPM	BA PPM	BE PPM	BI PPM	CD PPM	CE PPM	CO PPM	CR PPM	CU PPM
S1 9303050		6	<0.2	15	161	1.6	5	<1	32	7	24	22
S1 9303051		<5	<0.2	5	136	1.3	5	<1	28	7	19	11
S1 9303401	600 MAP AREA #K5	<5	<0.2	<5	214	3.5	6	<1	78	15	33	28
S1 9303402		<5	<0.2	<5	270	2.2	<2	<1	51	14	26	20
S1 9303403		<5	<0.2	11	299	4.2	<2	<1	61	16	30	22
S1 9303404		<5	<0.2	<5	673	3.6	<2	<1	55	12	35	25
S1 9303405		<5	<0.2	<5	512	3.0	3	<1	77	3	12	19
S1 9303406		<5	<0.2	12	165	2.3	7	<1	37	8	27	21
S1 9303407		<5	<0.2	39	436	4.0	6	<1	56	24	58	38
S1 9303408		6	<0.2	42	183	3.0	10	<1	26	23	40	24
S1 9303409	SKWK MAP AREA	12	<0.2	161	282	4.3	8	<1	51	99	101	42
S1 9303410		<5	<0.2	23	145	3.4	6	<1	75	27	51	32
S1 9303411		<5	<0.2	59	519	3.7	9	<1	72	27	53	48
S1 9303601		<5	<0.2	14	467	2.6	5	<1	38	16	23	21
S1 9303602		<5	<0.2	16	97	1.8	7	<1	28	6	26	14
S1 9303603		<5	<0.2	<5	84	4.0	6	<1	84	22	55	24
S1 9303604		<5	<0.2	<5	87	2.2	7	<1	33	8	25	19
S1 9303605		<5	<0.2	8	104	2.3	8	<1	34	9	31	19
S1 9303606		<5	<0.2	14	180	2.2	8	<1	32	8	25	22
S1 9303607		<5	<0.2	9	99	1.6	6	<1	22	13	18	18
S1 9303800		<5	<0.2	11	218	2.6	6	<1	44	11	29	18
S1 9303801		<5	<0.2	13	175	2.0	5	<1	31	6	22	16
S1 9303802		<5	<0.2	6	102	1.6	4	<1	24	8	21	10
S1 9303803		<5	<0.2	9	120	1.8	7	<1	27	9	24	14
S1 9303804		151	<0.2	11	102	1.7	6	<1	22	7	22	15
S1 9303805		<5	<0.2	63	202	3.5	10	<1	37	19	52	46
X2 9305001		<5	<0.2	5	474	11.1	13	<1	35	38	61	35
X2 9305002		<5	<0.2	18	207	4.5	4	<1	17	9	16	16
X2 9305008		79	<0.2	<5	254	5.5	11	<1	18	17	67	36
X2 9305036		<5	<0.2	13	172	1.8	7	<1	29	9	42	13
X2 9305201		<5	<0.2	<5	>2000	7.7	14	<1	17	12	35	39



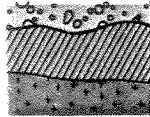
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SAMPLE NUMBER	ELEMENT UNITS	GA PPM	LA PPM	LI PPM	MO PPM	NB PPM	NI PPM	PB PPM	RB PPM	SB PPM	SC PPM	SN PPM
S1 9303050		5	15	12	<1	4	21	20	76	12	3	<20
S1 9303051		6	12	8	<1	2	15	10	86	9	2	<20
S1 9303401		<2	41	4	1	2	31	17	80	8	21	<20
S1 9303402		<2	24	5	<1	6	18	17	52	9	13	<20
S1 9303403		<2	26	4	2	7	24	23	40	9	12	<20
S1 9303404		<2	25	5	<1	8	13	17	56	14	15	<20
S1 9303405		3	35	3	2	3	8	17	64	9	6	<20
S1 9303406		8	18	14	1	2	22	17	96	14	4	<20
S1 9303407		7	23	9	3	2	56	18	<20	20	13	<20
S1 9303408		9	10	9	6	1	45	16	28	20	7	<20
S1 9303409		7	20	10	8	<1	283	16	70	19	16	<20
S1 9303410		4	27	3	2	2	48	14	44	8	15	<20
S1 9303411		12	28	5	6	2	53	23	54	17	16	<20
S1 9303601		6	18	6	1	1	31	17	120	12	7	<20
S1 9303602		6	13	13	2	1	16	15	60	12	3	<20
S1 9303603		4	39	2	2	<1	30	25	48	11	14	<20
S1 9303604		7	15	12	2	<1	19	13	88	14	4	<20
S1 9303605		10	16	15	1	1	22	18	48	19	4	<20
S1 9303606		7	15	9	1	1	19	18	84	14	4	<20
S1 9303607		8	9	9	2	1	15	13	110	10	2	<20
S1 9303800		4	19	6	2	2	16	16	48	10	8	<20
S1 9303801		5	14	6	2	2	15	17	94	12	4	<20
S1 9303802		5	11	11	2	1	15	13	32	10	3	<20
S1 9303803		8	13	11	1	2	18	13	68	13	3	<20
S1 9303804		6	10	10	1	1	16	14	84	13	2	<20
S1 9303805		7	16	8	3	2	59	20	106	15	12	<20
X2 9305W01		12	12	3	3	<1	56	41	22	13	19	<20
X2 9305W02		4	7	1	4	<1	21	29	34	8	7	<20
X2 9305008		6	7	7	2	<1	31	22	54	15	11	<20
X2 9305036		11	12	7	1	2	17	15	84	11	3	<20
X2 9305201		8	4	2	2	<1	42	31	86	11	13	<20



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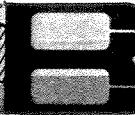
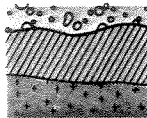
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SAMPLE NUMBER	ELEMENT UNITS	SR PPM	TA PPM	TE PPM	V PPM	W PPM	Y PPM	ZN PPM	ZR PPM	HG PPB
S1 9303050		26	<10	<10	33	<10	9	63	2	95
S1 9303051		22	<10	<10	29	<10	5	52	1	30
S1 9303401		66	<10	<10	53	<10	34	68	6	50
S1 9303402		204	<10	<10	44	<10	15	46	2	45
S1 9303403		119	<10	<10	57	<10	18	64	8	90
S1 9303404		121	<10	<10	76	<10	20	53	4	10
S1 9303405		86	<10	<10	24	<10	22	51	15	120
S1 9303406		18	<10	<10	39	<10	9	51	2	55
S1 9303407		61	<10	<10	66	<10	14	79	7	20
S1 9303408		29	<10	<10	61	<10	6	74	3	33
S1 9303409		33	<10	<10	108	<10	17	164	8	90
S1 9303410		19	<10	<10	83	<10	23	71	7	35
S1 9303411		51	<10	<10	60	<10	16	92	8	60
S1 9303601		53	<10	<10	45	<10	7	57	3	30
S1 9303602		16	<10	<10	44	<10	4	40	2	10
S1 9303603		9	<10	<10	96	<10	15	91	3	70
S1 9303604		12	<10	<10	47	<10	6	46	4	13
S1 9303605		14	<10	<10	53	<10	5	56	2	30
S1 9303606		24	<10	<10	38	<10	6	47	4	45
S1 9303607		14	<10	<10	42	<10	3	37	<1	20
S1 9303800		40	<10	<10	51	<10	11	50	2	20
S1 9303801		30	<10	<10	35	<10	5	47	5	40
S1 9303802		13	<10	<10	45	<10	3	44	<1	30
S1 9303803		20	<10	<10	46	<10	5	50	<1	20
S1 9303804		12	<10	<10	40	<10	3	40	<1	10
S1 9305005		33	<10	<10	84	<10	13	93	8	70
X2 9305001		42	<10	<10	123	<10	21	194	7	4000
X2 9305002		45	<10	<10	26	<10	5	113	3	>5000
X2 9305008		47	<10	<10	138	<10	5	99	8	3250
X2 9305036		24	<10	<10	34	<10	5	55	3	80
X2 9305201		51	<10	<10	50	<10	9	135	15	>5000

Geo
 Program
 Geo
 N. 4/500

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BONDAR-CLEGG

**Geochemical
Lab Report**

REPORT: V89-03505.0 (COMPLETE)

REFERENCE INFO:

CLIENT: AURUM GEOLOGICAL CONSULTANTS INC.

SUBMITTED BY: T. GARAGAN

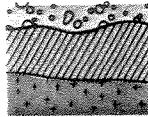
PROJECT: 30

DATE PRINTED: 30 JUN 89

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
S SOILS	66	1 -80	66	DRY, SIEVE -80	66
X OTHER	5	2 -150	5	PULVERIZING	5

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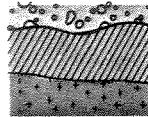


REPORT: V89-03507.0 (COMPLETE)

REFERENCE INFO:

CLIENT: AURUM GEOLOGICAL CONSULTANTS INC.
PROJECT: 36/SNOWCAPSUBMITTED BY: T. GARAGAN
DATE PRINTED: 30-JUN-89

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU GOLD - FIRE ASSAY	26	5 PPB	FIRE-ASSAY	FIRE ASSAY AA
2	AG SILVER	26	0.2 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
3	AS ARSENIC	26	5 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
4	BA BARIUM	26	1 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
5	BE BERYLLIUM	26	0.5 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
6	BI BISMUTH	26	2 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
7	CD CADMIUM	26	1 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
8	CE CERIUM	26	5 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
9	CO COBALT	26	1 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
10	CR CHROMIUM	26	1 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
11	CU COPPER	26	1 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
12	CA CALCIUM	26	2 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
13	LA LANTHANUM	26	1 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
14	LI LITHIUM	26	1 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
15	MO MOLYBDENUM	26	1 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
16	NB NIOBIUM	26	1 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
17	NI NICKEL	26	1 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
18	PB LEAD	26	2 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
19	Rb RUBIDIUM	26	20 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
20	SB ANTIMONY	26	5 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
21	SC SCANDIUM	26	1 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
22	SN TIN	26	20 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
23	SR STRONTIUM	26	1 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
24	TA TANTALUM	26	10 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
25	TE TELLURIUM	26	10 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
26	V VANADIUM	26	1 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
27	W TUNGSTEN	26	10 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
28	Y YTTRIUM	26	1 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
29	ZN ZINC	26	1 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
30	ZR ZIRCONIUM	26	1 PPM	HN03-HCL HOT EXTR	IND. COUPLED PLASMA
31	HG MERCURY	26	5 PPB	HN03-HCL-SMS04	COLD VAPOUR AA



DATE PRINTED: 30-JUN-89

REPORT: V89-03507.0

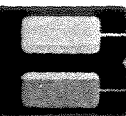
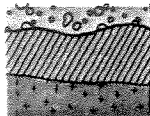
PROJECT: 30/SNOWCAP

PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	AU PPB	AG PPM	AS PPM	BA PPM	BE PPM	BI PPM	CD PPM	CE PPM	CO PPM	CR PPM	CU PPM
R2 9301203	Dust Bowl Camp	<5	<0.2	11	166	21.7	9	<1	48	<1	14	97
R2 9301204		<5	<0.2	18	210	9.3	6	<1	61	1	21	65
R2 9301405	Skunk	6	<0.2	147	176	14.6	8	<1	59	34	162	77
R2 9301406	Skunk	<5	<0.2	82	205	12.4	5	<1	72	13	89	56
R2 9301601	Go	<5	<0.2	37	>2000	17.0	7	<1	9	4	38	29
R2 9301602	Go - 0.7	<5	<0.2	27	530	11.6	5	<1	62	4	58	356
R2 9301603	" } W	<5	<0.2	17	192	10.2	<2	<1	35	9	36	23
R2 9301604	"	<5	<0.2	23	117	15.7	5	<1	80	13	46	52
R2 9301605	Skunk	<5	<0.2	125	206	17.6	8	<1	68	13	73	36
R2 9301606	Skunk	<5	<0.2	131	222	18.2	8	<1	69	16	83	23
R2 9301607	Skunk	7	<0.2	106	189	13.0	6	<1	54	13	85	32
R2 9301608	Skunk	<5	<0.2	108	211	15.9	8	<1	77	14	92	21
R2 9301800	Skunk	<5	<0.2	132	154	16.4	7	<1	75	19	96	30
R2 9301801	Skunk	<5	<0.2	46	125	13.3	6	<1	65	14	79	36
R2 9301802	Skunk	<5	<0.2	125	196	17.5	10	<1	73	9	101	50
R2 9302203	Go	<5	<0.2	28	771	24.1	9	<1	26	14	68	24
R2 9302204	Go	<5	<0.2	21	228	32.3	11	<1	26	10	73	22
R2 9302205		<5	<0.2	36	580	7.9	6	<1	36	5	7	11
R2 9302206		<5	<0.2	27	479	17.6	8	<1	39	11	69	23
R2 9302207		9	<0.2	278	142	3.2	3	2	<5	4	73	35
R2 9302208		<5	<0.2	40	617	5.8	4	<1	43	5	6	11
R2 9302401		<5	<0.2	36	81	14.6	7	<1	53	23	60	32
R2 9302601		<5	<0.2	<5	>2000	<0.5	<2	1	152	107	<1	2054
R2 9302602		<5	<0.2	128	>2000	5.0	30	2	17	35	136	195
R2 9302603		<5	<0.2	23	>2000	4.9	<2	<1	11	15	83	82
R2 9302801		8	<0.2	31	143	17.2	11	<1	26	22	81	30

Go - schist (110m)

Go - schist (110m)



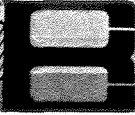
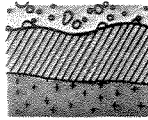
DATE PRINTED: 30-JUN-89

REPORT: V89-03507.0

PROJECT: 30/SNOWCAP

PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	GA PPM	LA PPM	LI PPM	NO PPM	NB PPM	NI PPM	PB PPM	RB PPM	SB PPM	SC PPM	SN PPM
R2 9301203		24	16	5	<1	3	7	15	<20	12	4	<20
R2 9301204		16	24	4	20	3	5	13	<20	8	4	<20
R2 9301405		10	22	5	7	4	100	25	<20	18	15	<20
R2 9301406		6	29	6	2	4	29	18	<20	17	12	<20
R2 9301601		27	<1	1	<1	1	4	36	<20	16	4	<20
R2 9301602		7	24	3	<1	3	8	26	<20	13	7	<20
R2 9301603		<2	12	4	<1	7	15	30	<20	12	9	<20
R2 9301604		9	36	5	<1	3	22	30	<20	14	11	<20
R2 9301605		6	25	3	6	3	29	16	<20	19	10	<20
R2 9301606		8	25	4	7	4	39	19	<20	24	11	<20
R2 9301607		7	20	3	4	3	30	17	<20	18	10	<20
R2 9301608		8	29	4	5	4	35	21	<20	24	12	<20
R2 9301800		8	28	4	9	4	39	19	<20	21	12	<20
R2 9301801		7	24	3	<1	4	27	20	<20	13	11	<20
R2 9301802		9	27	8	<1	5	39	24	<20	24	13	<20
R2 9302203		7	5	2	1	3	26	24	<20	12	12	<20
R2 9302204		13	5	2	<1	2	33	24	<20	14	15	<20
R2 9302205		9	15	2	2	4	9	35	<20	14	6	<20
R2 9302206		8	18	1	<1	3	16	25	<20	14	9	<20
R2 9302207		6	2	3	11	3	14	44	<20	54	1	<20
R2 9302208		8	19	1	3	4	9	31	<20	12	4	<20
R2 9302401		19	20	4	<1	5	30	39	<20	13	10	<20
R2 9302601		>1000	22	<1	<1	3	23	362	<20	123	44	<20
R2 9302602		365	24	4	<1	27	12	274	<20	59	18	<20
R2 9302603		66	4	1	<1	<1	4	109	<20	<5	6	<20
R2 9302801		14	8	2	<1	2	41	39	<20	13	7	<20



DATE PRINTED: 30-JUN-89

REPORT: V89-03507.0

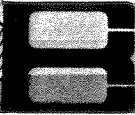
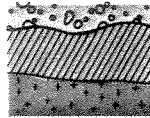
PROJECT: 30/SNOWCAP

PAGE 1C

SAMPLE NUMBER	ELEMENT UNITS	SR PPM	TA PPM	TE PPM	V PPM	W PPM	Y PPM	ZN PPM	ZR PPM	HG PPB
R2 9301203		6	<10	<10	5	<10	9	136	12	15
R2 9301204		7	<10	<10	3	<10	10	259	11	<5
R2 9301405		45	<10	<10	128	<10	20	104	3	10
R2 9301406		47	<10	<10	98	<10	22	43	5	5
R2 9301601		64	<10	<10	15	<10	5	36	1	90
R2 9301602		70	<10	<10	34	<10	15	46	4	10
R2 9301603		39	<10	<10	41	<10	8	59	7	100
R2 9301604		14	<10	<10	57	<10	13	74	4	900
R2 9301605		103	<10	<10	91	<10	20	67	4	10
R2 9301606		67	<10	<10	89	<10	24	69	5	10
R2 9301607		59	<10	<10	82	<10	19	54	5	<5
R2 9301608		84	<10	<10	87	<10	23	61	6	<5
R2 9301800		46	<10	<10	104	<10	24	76	5	<5
R2 9301801		39	<10	<10	76	<10	21	37	4	<5
R2 9301802		71	<10	<10	96	<10	22	66	6	<5
R2 9302203		72	<10	<10	98	<10	11	82	6	3600
R2 9302204		38	<10	<10	110	<10	13	96	8	1500
R2 9302205		38	<10	<10	10	<10	9	66	3	>5000
R2 9302206		38	<10	<10	60	<10	10	72	6	2800
R2 9302207		14	<10	<10	15	<10	17	81	4	3900
R2 9302208		41	<10	<10	9	<10	9	64	3	>5000
R2 9302401		34	<10	<10	72	<10	10	94	4	185
R2 9302601		134	130	<10	156	53	333	738	6	300
R2 9302602		99	<10	40	19	<10	53	180	4	65
R2 9302603		34	<10	<10	14	<10	10	41	<1	3200
R2 9302801		12	<10	<10	53	<10	6	111	4	430

Bondar-Clegg & Company Ltd.

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Whitehorse, Yukon Territory Y1A 2V1
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Telex: 036-8-460



BONDAR-CLEGG

**Geochemical
Lab Report**

REPORT: V89-03518.0 (COMPLETE)

REFERENCE INFO:

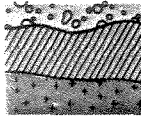
CLIENT: AURUM GEOLOGICAL CONSULTANTS INC.
PROJECT: 30

SUBMITTED BY: T. GARAGAN
DATE PRINTED: 3-JUL-89

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	34	2 -150	34	CRUSH+PULVERIZE -150	34

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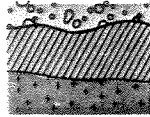


REPORT: V89-03518.0 (COMPLETE)

REFERENCE INFO:

CLIENT: AURUM GEOLOGICAL CONSULTANTS INC.
PROJECT: 30SUBMITTED BY: T. GARAGAN
DATE PRINTED: 3-JUL-89

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU GOLD - FIRE ASSAY	34	5 PPB	FIRE-ASSAY	FIRE ASSAY AA
2	AG SILVER	34	0.2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
3	AS ARSENIC	34	5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
4	BA BARIUM	34	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
5	BE BERYLLIUM	34	0.5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
6	BI BISMUTH	34	2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
7	CD CADMIUM	34	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
8	CE CERIUM	34	5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
9	CO COBALT	34	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
10	CR CHROMIUM	34	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
11	CU COPPER	34	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
12	GA GALLIUM	34	2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
13	LA LANTHANUM	34	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
14	LI LITHIUM	34	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
15	MO MOLYBDENUM	34	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
16	NB NIOBIUM	34	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
17	NI NICKEL	34	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
18	PB LEAD	34	2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
19	RB RUBIDIUM	34	20 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
20	SB ANTIMONY	34	5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
21	SC SCANDIUM	34	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
22	SN TIN	34	20 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
23	SR STRONTIUM	34	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
24	TA TANTALUM	34	10 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
25	TE TELLURIUM	34	10 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
26	V VANADIUM	34	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
27	W TUNGSTEN	34	10 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
28	Y YTTRIUM	34	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
29	ZN ZINC	34	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
30	ZR ZIRCONIUM	34	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA

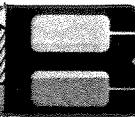
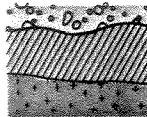


REPORT: V89-03518.0

DATE PRINTED: 3-JUL-89
PROJECT: 30

PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	AU PFB	AG PPM	AS PPM	BA PPM	BE PPM	BI PPM	CD PPM	CE PPM	CB PPM	CR PPM	CU PPM
R2 9301407	MAP AREA # 2	<5	0.8	<5	21	<0.5	<2	<1	22	<1	10	29
R2 9301408	P. Breccia Mully 78	<5	0.9	<5	57	<0.5	<2	<1	92	<1	33	7
R2 9301409		<5	0.9	<5	18	<0.5	<2	<1	29	<1	33	3
R2 9301410		<5	0.8	<5	39	<0.5	<2	<1	61	<1	31	3
R2 9301411		<5	1.0	10	42	<0.5	<2	<1	88	<1	28	11
R2 9301609		<5	0.9	10	42	<0.5	<2	<1	65	3	32	4
R2 9301803		<5	1.4	<5	20	<0.5	<2	<1	13	4	78	26
R2 9301804		<5	2.7	<5	24	<0.5	3	<1	<5	23	55	37
R2 9301805		<5	1.4	<5	10	<0.5	<2	<1	56	1	61	21
R2 9301806		<5	0.7	<5	13	<0.5	<2	<1	125	1	36	3
R2 9301807		<5	0.9	<5	16	<0.5	<2	<1	85	<1	26	3
R2 9301808		<5	1.0	<5	29	<0.5	3	<1	74	<1	36	4
R2 9301809		<5	1.3	5	36	<0.5	3	<1	60	<1	55	2
R2 9301810		<5	1.2	10	36	<0.5	3	<1	65	<1	71	7
R2 9302209		<5	1.0	10	57	<0.5	2	<1	56	1	27	4
R2 9302210		<5	0.8	<5	122	<0.5	<2	<1	84	3	18	7
R2 9302211		<5	0.6	<5	103	<0.5	<2	<1	79	2	24	7
R2 9302212		<5	0.8	<5	36	<0.5	<2	<1	42	3	19	3
R2 9302213		<5	0.6	<5	54	<0.5	<2	<1	40	1	36	4
R2 9302214		<5	0.7	19	38	<0.5	<2	<1	52	1	15	6
R2 9302402		<5	0.8	60	68	<0.5	3	<1	29	<1	20	5
R2 9302403		<5	0.6	41	32	<0.5	<2	<1	16	<1	11	7
R2 9302404		<5	0.6	21	25	<0.5	<2	<1	57	<1	16	6
R2 9302604		<5	1.4	78	79	<0.5	<2	<1	15	<1	27	4
R2 9302605		<5	0.6	<5	33	<0.5	2	<1	67	<1	46	3
R2 9302606		<5	0.8	<5	33	<0.5	<2	<1	75	<1	33	3
R2 9302607		<5	1.0	<5	46	<0.5	2	<1	35	<1	35	3
R2 9302608		<5	0.7	<5	24	<0.5	<2	<1	38	<1	35	5
R2 9302609		<5	0.8	<5	47	<0.5	<2	<1	55	<1	35	5
R2 9302610		<5	0.8	<5	30	<0.5	<2	<1	71	<1	44	3
R2 9302611		<5	0.6	<5	37	<0.5	<2	<1	48	<1	38	3
R2 9302612		<5	0.6	<5	48	<0.5	<2	<1	45	<1	25	3
R2 9302613		<5	0.7	<5	39	<0.5	<2	<1	42	<1	28	2
R2 9302614		<5	0.7	<5	23	<0.5	<2	<1	39	<1	31	3



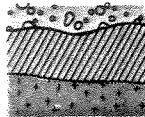
REPORT: V69-03518.0

DATE PRINTED: 3-JUL-89

PROJECT: 30

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SAMPLE NUMBER	ELEMENT UNITS	GA PPM	LA PPM	LI PPM	MO PPM	NB PPM	NI PPM	PB PPM	RB PPM	SB PPM	SC PPM	SN PPM
R2 9301407		<2	0	<1	4	2	1	13	<20	<5	1	<20
R2 9301408		6	52	14	<1	2	1	<2	<20	<5	5	<20
R2 9301409		3	13	3	<1	6	<1	8	<20	<5	<1	<20
R2 9301410		3	33	<1	2	2	2	20	<20	<5	<1	<20
R2 9301411		4	42	<1	2	1	<1	10	22	<5	1	<20
R2 9301609		5	36	7	<1	4	4	15	<20	<5	3	<20
R2 9301803		5	6	11	<1	2	4	3	24	<5	3	<20
R2 9301804	<i>Ardenite Mark</i>	5	2	25	1	3	22	242	46	<5	7	<20
R2 9301805		2	33	<1	9	6	1	19	<20	<5	1	<20
R2 9301806		7	58	18	<1	2	4	4	<20	<5	3	<20
R2 9301807		3	48	4	<1	2	<1	13	53	<5	1	<20
R2 9301808		5	35	10	1	1	1	12	24	<5	2	<20
R2 9301809		5	32	8	2	3	1	19	<20	<5	1	<20
R2 9301810		3	34	7	2	5	2	104	24	<5	1	<20
R2 9302209		<2	22	1	6	2	3	11	47	<5	<1	<20
R2 9302210		<2	20	2	7	<1	6	16	<20	<5	1	<20
R2 9302211		<2	23	2	9	<1	5	38	<20	<5	2	<20
R2 9302212		<2	6	2	5	<1	2	10	<20	<5	<1	<20
R2 9302213		<2	10	2	1	<1	3	7	<20	<5	<1	<20
R2 9302214		<2	16	2	3	6	1	8	<20	<5	<1	<20
R2 9302402		4	19	<1	6	2	<1	13	20	<5	<1	<20
R2 9302403		2	9	<1	14	<1	<1	9	60	<5	<1	<20
R2 9302404		3	32	<1	3	1	<1	5	<20	<5	<1	<20
R2 9302604		6	10	<1	4	4	<1	17	44	<5	<1	<20
R2 9302605		4	28	6	2	2	<1	26	29	<5	2	<20
R2 9302606		3	49	3	4	2	<1	11	<20	<5	3	<20
R2 9302607		3	20	<1	1	2	1	13	51	<5	2	<20
R2 9302608		2	11	<1	1	2	1	20	<20	<5	2	<20
R2 9302609		<2	36	<1	2	2	<1	17	<20	<5	2	<20
R2 9302610		3	49	4	4	2	2	17	<20	<5	2	<20
R2 9302611		<2	26	<1	2	2	2	10	<20	<5	2	<20
R2 9302612		<2	29	2	3	1	2	9	<20	<5	2	<20
R2 9302613		<2	26	3	1	2	2	3	<20	<5	2	<20
R2 9302614		<2	22	2	<1	2	<1	5	<20	<5	2	<20



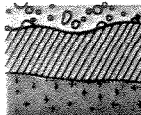
REPORT: V89-03518.0

DATE PRINTED: 3-JUL-89

PROJECT: 30

PAGE 1C

SAMPLE NUMBER	ELEMENT UNITS	SR PPM	TA PPM	TE PPM	V PPM	W PPM	Y PPM	ZN PPM	ZR PPM
R2 9301407		2	<10	<10	<1	<10	4	30	13
R2 9301408		8	<10	<10	5	<10	18	71	7
R2 9301409		3	<10	<10	<1	<10	17	15	7
R2 9301410		6	<10	<10	1	<10	10	33	9
R2 9301411		4	<10	<10	2	<10	8	36	12
R2 9301609		5	<10	<10	11	<10	9	67	9
R2 9301803		9	<10	<10	15	<10	9	144	2
R2 9301804		23	<10	<10	77	<10	12	185	3
R2 9301805		5	<10	<10	3	<10	13	28	36
R2 9301806		4	<10	<10	12	<10	14	73	10
R2 9301897		4	<10	<10	2	<10	15	103	9
R2 9301808		4	<10	<10	3	<10	15	73	21
R2 9301809		5	<10	<10	3	<10	10	75	15
R2 9301810		3	<10	<10	3	<10	11	159	18
R2 9302209		2	<10	<10	1	<10	9	29	4
R2 9302210		3	<10	<10	4	<10	9	37	4
R2 9302211		2	<10	<10	5	<10	8	84	6
R2 9302212		2	<10	<10	3	<10	4	35	3
R2 9302213		2	<10	<10	3	<10	5	38	6
R2 9302214		3	<10	<10	4	<10	5	22	2
R2 9302402		5	<10	<10	2	<10	4	6	6
R2 9302403		2	<10	<10	1	<10	4	12	7
R2 9302404		2	<10	<10	2	<10	9	16	6
R2 9302604		21	<10	<10	<1	<10	3	30	9
R2 9302605		1	<10	<10	<1	<10	8	74	21
R2 9302606		1	<10	<10	<1	<10	13	70	16
R2 9302607		3	<10	<10	<1	<10	5	49	11
R2 9302608		3	<10	<10	<1	<10	6	50	13
R2 9302609		5	<10	<10	<1	<10	9	65	11
R2 9302610		1	<10	<10	<1	<10	10	60	18
R2 9302611		3	<10	<10	<1	<10	8	62	15
R2 9302612		2	<10	<10	<1	<10	8	55	16
R2 9302613		1	<10	<10	<1	<10	9	60	18
R2 9302614		2	<10	<10	<1	<10	9	62	12



REPORT: VR7-03503.0 (COMPLETE)

REFERENCE INFO:

CLIENT: AURUM GEOLOGICAL CONSULTANTS INC.

SUBMITTED BY: T. GARAGAN

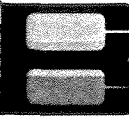
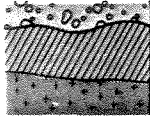
PROJECT: NONE GIVEN

DATE PRINTED: 4-JUL-89

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU GOLD - FIRE ASSAY	15	5 PPB	FIRE-ASSAY	FIRE ASSAY AA
2	AG SILVER	15	0.2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
3	AS ARSENIC	15	5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
4	BA BARIUM	15	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
5	BE BERYLLIUM	15	0.5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
6	BI BISMUTH	15	2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
7	CD CADMIUM	15	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
8	CF CERIUM	15	5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
9	CO COBALT	15	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
10	CR CHROMIUM	15	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
11	CU COPPER	15	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
12	GA GALLIUM	15	2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
13	LA LANTHANUM	15	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
14	LI LITHIUM	15	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
15	MO MOLYBDENUM	15	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
16	NB NIOBIUM	15	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
17	NI NICKEL	15	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
18	PB LEAD	15	2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
19	RB RUBIDIUM	15	20 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
20	SB ANTIMONY	15	5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
21	SC SCANDIUM	15	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
22	SN TIN	15	20 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
23	SR STRONTIUM	15	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
24	TA TANTALUM	15	10 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
25	TE TELLURIUM	15	10 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
26	V VANADIUM	15	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
27	W TUNGSTEN	15	10 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
28	Y YTTRIUM	15	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
29	ZN ZINC	15	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
30	ZR ZIRCONIUM	15	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
31	HG MERCURY	15	5 PPB	HNO3-HCL-SN504	COLD VAPOUR AA

Bondar-Clegg & Company Ltd.

136 Industrial Road
Whitehorse, Yukon Territory Y1A 2V1
Phone: (403) 667-6523
Telex: 036-8-460



BONDAR-CLEGG

Geochemical
Lab Report

REPORT: V89-0350-1.0 (COMPLETE)

REFERENCE INFO:

CLIENT: AURUM GEOLOGICAL CONSULTANTS INC.

SUBMITTED BY: T. GARAGAN

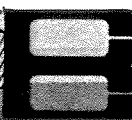
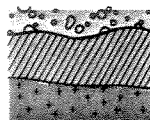
PROJECT: NONE GIVEN

DATE PRINTED: 4-JUL-89

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
6 SOILS	5	1 -80	15	DRY, SIEVE -80	15
7 STREAM SEDIMENT/SILT	10				

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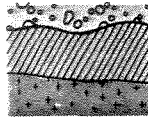
REPORT: 069-0350A.0

DATE PAINTED: 4/20/87

PROJECT: NONE GIVEN

PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	AI PPM	AG PPM	AS PPM	BA PPM	BE PPM	BI PPM	CD PPM	CE PPM	CO PPM	CR PPM	CU PPM
S1 9303201		<5	<0.2	51	240	13.1	12	<1	51	12	36	16
S1 9303202		<5	<0.2	39	267	13.5	8	<1	40	12	35	27
S1 9303204		<5	<0.2	37	233	10.5	7	<1	41	10	27	28
S1 9303205	Geo	<5	<0.2	29	180	9.0	7	<1	44	6	23	17
T1 9304201	Silt Geo	<5	<0.2	23	1597	16.1	5	<1	9	4	14	26
T1 9304202		<5	<0.2	8	1444	92.0	16	<1	<5	<1	<1	12
T1 9304203		<5	<0.2	30	823	7.9	6	<1	29	5	19	16
T1 9304203		<5	<0.2	31	117	8.5	7	<1	30	6	25	13
T1 9304204		10	<0.2	23	281	8.8	5	<1	26	7	20	10
T1 9304205		<5	<0.2	31	424	9.9	5	<1	31	6	20	13
T1 9304206	Geo	10	<0.2	41	1347	40.3	13	<1	22	12	13	11
T1 9304207		<5	<0.2	24	136	8.8	5	<1	32	7	20	14
T1 9304401		<5	<0.2	21	121	5.5	4	<1	29	5	13	6
T1 9304402		<5	<0.2	22	130	6.5	5	<1	26	5	16	9
T1 9304800		<5	<0.2	31	196	7.4	5	<1	27	7	17	13



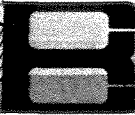
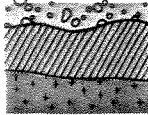
REPORT: V89-03506.0

DATE PRINTED: 4-JUL-89

PROJECT: NONE GIVEN

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SAMPLE NUMBER	ELEMENT UNITS	GA PPM	LA PPM	LI PPM	MO PPM	NB PPM	NI PPM	PB PPM	RB PPM	SB PPM	SC PPM	SN PPM
S1 9303201		14	22	24	<1	4	29	21	72	26	5	<20
S1 9303202		11	17	9	<1	5	25	19	50	21	9	<20
S1 9303203		11	19	9	<1	2	24	16	52	18	5	<20
S1 9303204		9	21	8	<1	2	17	11	<20	15	4	<20
S1 9303205		5	3	3	<1	2	22	16	<20	15	10	<20
T1 9304201		25	<1	3	<1	<1	2	19	<20	13	1	<20
T1 9304202		9	9	10	<1	2	13	13	<20	14	2	<20
T1 9304203		8	13	13	<1	2	16	13	<20	16	2	<20
T1 9304204		6	11	8	<1	2	14	9	<20	13	3	<20
T1 9304205		8	13	11	<1	3	14	13	<20	15	3	<20
T1 9304206		52	3	5	<1	1	14	16	<20	16	2	<20
T1 9304207		7	14	6	<1	2	17	11	<20	12	3	<20
T1 9304401		6	12	7	<1	3	9	9	48	11	2	<20
T1 9304402		6	11	7	<1	3	13	11	<20	12	2	<20
T1 9304800		8	11	11	<1	5	14	14	<20	16	3	<20



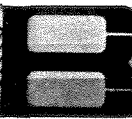
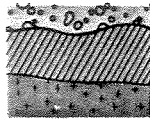
DATE PRINTED: 4-JUL-87

REPORT: V89-03506.0

PROJECT: NONE GIVEN

PAGE 1C

SAMPLE NUMBER	ELEMENT UNITS	SR PPM	TA PPM	TE PPM	V PPM	W PPM	Y PPM	ZN PPM	ZR PPM	HG PPB
S1 9303201		24	<10	<10	51	<10	9	63	2	140
S1 9303202		59	<10	<10	52	<10	13	60	5	3400
S1 9303203		27	<10	<10	41	<10	13	49	7	145
S1 9303204		22	<10	<10	35	<10	9	52	3	35
S1 9303205		83	<10	<10	20	<10	6	60	3	>5000
T1 9304201		165	<10	<10	17	<10	5	80	1	320
T1 9304202		21	<10	<10	33	<10	6	42	<1	180
T1 9304203		14	<10	<10	39	<10	5	45	<1	30
T1 9304204		23	<10	<10	43	<10	6	48	<1	1000
T1 9304205		30	<10	<10	30	<10	7	63	<1	140
T1 9304206		60	<10	<10	40	<10	6	43	1	120
T1 9304207		20	<10	<10	36	<10	6	42	<1	55
T1 9304401		26	<10	<10	25	<10	5	34	<1	30
T1 9304402		19	<10	<10	28	<10	5	35	<1	35
T1 9304800		73	<10	<10	28	<10	6	60	2	40



REPORT: V89-03517.0 (COMPLETE)

REFERENCE INFO:

CLIENT: AURUM GEOLOGICAL CONSULTANTS INC.
PROJECT: 30

SUBMITTED BY: T. GARAGAN
DATE PRINTED: 5 JUL 89

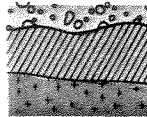
SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
± SOILS	67	1 -80	67	DRY, SIEVE -80	67
○ CONCENTRATE (PAN/WM)	1	2 -150	1	PULVERIZING	1

REMARKS: SAMPLE 9303067 WAS CHECKED FOR AU- <5 PPB

SAMPLE 9305202 WAS PREVIOUSLY TERMED AS "OTHER"
IS NOW CORRECTED TERMED AS "CONCENTRATE".

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Rec - July 6 / 89

REPORT: V89-03517.0 (COMPLETE)

REFERENCE INFO:

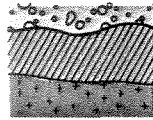
CLIENT: AURUM GEOLOGICAL CONSULTANTS INC.

SUBMITTED BY: T. GARAGAN

PROJECT: 30

DATE PRINTED: 5-JUL-89

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU GOLD - FIRE ASSAY	68	5 PPB	FIRE-ASSAY	FIRE ASSAY AA
2	AG SILVER	68	0.2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
3	AS ARSENIC	68	5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
4	BA BARIUM	68	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
5	BE BERYLLIUM	68	0.5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
6	BI BISMUTH	68	2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
7	CB CADMIUM	68	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
8	CE CERIUM	68	5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
9	CO COBALT	68	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
10	CR CHROMIUM	68	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
11	CU COPPER	68	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
12	CA GALLIUM	68	2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
13	LA LANTHANUM	68	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
14	LI LITHIUM	68	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
15	MO MOLYBDENUM	68	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
16	NB NIOBIUM	68	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
17	NI NICKEL	68	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
18	PB LEAD	68	2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
19	RB RUBIDIUM	68	20 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
20	SB ANTIMONY	68	5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
21	SC SCANDIUM	68	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
22	SN TIN	68	20 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
23	SR STRONTIUM	68	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
24	TA TANTALUM	68	10 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
25	TE TELLURIUM	68	10 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
26	V VANADIUM	68	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
27	W TUNGSTEN	68	10 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
28	Y YTTRIUM	68	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
29	ZN ZINC	68	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
30	ZR ZIRCONIUM	68	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA



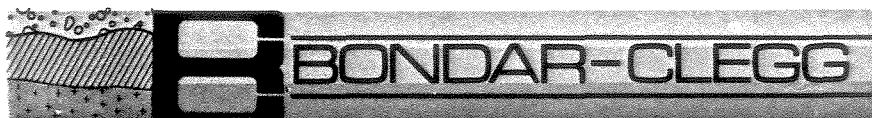
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SAMPLE NUMBER	ELEMENT UNITS	AU PPB	AG PPM	AS PPM	BA PPM	BE PPM	BI PPM	CD PPM	CE PPM	CO PPM	CR PPM	CU PPM
S1 9303060	Mudstone	<5	0.7	7	167	<0.5	<2	<1	20	8	28	16
S1 9303061		<5	0.5	20	111	<0.5	4	<1	16	7	19	17
S1 9303062		<5	0.6	19	145	<0.5	3	<1	30	8	30	19
S1 9303063		7	0.8	15	220	<0.5	2	<1	24	8	30	15
S1 9303064		25	0.7	<5	139	<0.5	3	<1	37	8	23	15
S1 9303065		<5	0.9	<5	136	<0.5	3	<1	17	8	28	18
S1 9303066		<5	0.7	15	74	<0.5	2	<1	9	7	14	13
S1 9303067		34	0.9	19	131	<0.5	4	<1	16	8	19	14
S1 9303068		<5	0.8	23	126	<0.5	3	<1	22	9	33	18
S1 9303069		<5	0.7	30	121	<0.5	3	<1	12	8	18	18
S1 9303070		41	0.7	18	87	<0.5	3	<1	18	6	19	12
S1 9303071		<5	0.6	12	104	<0.5	<2	<1	15	6	16	14
S1 9303072		<5	0.6	7	56	<0.5	<2	<1	15	5	13	17
S1 9303073		<5	0.6	<5	162	<0.5	<2	<1	19	6	25	14
S1 9303074		<5	0.7	11	115	<0.5	3	<1	15	5	13	13
S1 9303075		<5	0.7	20	88	<0.5	3	<1	25	7	19	25
S1 9303076		13	0.8	17	162	<0.5	3	<1	20	9	25	12
S1 9303077		<5	0.7	14	111	<0.5	3	<1	20	5	17	11
S1 9303078		<5	0.7	10	158	<0.5	2	<1	18	6	20	13
S1 9303079		<5	0.6	<5	137	<0.5	2	<1	13	6	23	12
S1 9303080		<5	0.8	8	169	<0.5	4	<1	13	6	18	9
S1 9303081		8	0.7	11	106	<0.5	4	<1	36	7	18	17
S1 9303082		6	0.6	13	113	<0.5	4	<1	42	7	17	14
S1 9303083		<5	0.7	7	95	<0.5	3	<1	56	7	21	15
S1 9303206		<5	1.2	16	119	<0.5	2	<1	35	7	11	21
S1 9303207		<5	1.1	19	120	<0.5	4	<1	37	8	17	24
S1 9303208		<5	1.1	16	154	<0.5	2	<1	27	9	19	24
S1 9303209		<5	1.2	22	173	<0.5	6	<1	33	9	19	23
S1 9303210		<5	0.9	15	135	<0.5	3	<1	36	13	25	31
S1 9303211		<5	0.7	12	187	<0.5	<2	<1	54	8	24	14
S1 9303212		<5	0.9	12	143	<0.5	3	<1	35	8	30	18
S1 9303213		<5	1.0	8	184	<0.5	<2	<1	41	8	33	21
S1 9303214		<5	1.0	14	159	<0.5	3	<1	44	9	32	24
S1 9303215		55	1.0	18	123	<0.5	4	<1	49	16	31	30
S1 9303216		<5	1.2	11	182	<0.5	3	<1	35	12	27	22
S1 9303217		<5	1.1	17	118	<0.5	3	<1	32	11	25	25
S1 9303218		<5	0.5	24	93	<0.5	3	<1	44	16	25	30
S1 9303219		<5	1.1	11	142	<0.5	2	<1	29	7	26	15
S1 9303220		7	1.0	17	181	<0.5	5	<1	33	9	23	27
S1 9303221		<5	0.8	15	143	<0.5	3	<1	26	13	30	26



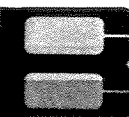
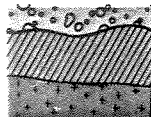
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SAMPLE NUMBER	ELEMENT UNITS	GA PPM	LA PPM	LI PPM	MO PPM	NB PPM	NI PPM	PB PPM	RB PPM	SB PPM	SC PPM	SN PPM
51 9303060		5	10	11	1	2	16	10	<20	<5	3	<20
51 9303061		4	8	9	1	2	15	10	<20	<5	2	<20
51 9303062		5	30	13	<1	2	18	12	<20	<5	4	<20
51 9303063		6	17	13	<1	3	19	13	34	<5	4	<20
51 9303064		5	16	9	<1	2	15	8	61	<5	3	<20
51 9303065		5	8	14	<1	2	21	8	45	<5	4	<20
51 9303066		4	4	6	<1	2	11	9	41	<5	1	<20
51 9303067		4	8	11	1	2	12	14	<20	5	2	<20
51 9303068		5	11	17	2	2	21	10	25	<5	3	<20
51 9303069		3	6	9	1	2	15	12	47	<5	2	<20
51 9303070		4	8	8	<1	2	13	11	45	<5	2	<20
51 9303071		3	7	7	<1	2	12	8	<20	<5	2	<20
51 9303072		3	8	7	<1	1	12	7	22	<5	1	<20
51 9303073		4	10	13	<1	1	18	6	<20	<5	2	<20
51 9303074		3	7	6	<1	1	11	6	27	<5	2	<20
51 9303075		4	13	9	1	2	16	10	36	<5	2	<20
51 9303076		4	9	8	<1	2	16	11	<20	<5	2	<20
51 9303077		4	10	8	1	2	12	9	<20	<5	2	<20
51 9303078		4	9	9	<1	2	14	10	36	<5	2	<20
51 9303079		4	7	9	<1	4	15	8	<20	<5	2	<20
51 9303080		4	7	7	<1	2	10	8	47	<5	2	<20
51 9303081		6	17	13	2	3	15	15	<20	<5	2	<20
51 9303082		5	23	10	2	2	13	17	67	<5	2	<20
51 9303083		5	26	13	1	3	17	17	23	<5	2	<20
51 9303206		9	17	8	<1	5	15	14	<20	<5	2	<20
51 9303207		6	17	10	<1	4	20	15	40	<5	3	<20
51 9303208		8	14	12	<1	5	21	13	<20	<5	3	<20
51 9303209		8	15	10	<1	5	21	16	62	<5	2	<20
51 9303210		6	19	10	1	4	27	11	58	<5	4	<20
51 9303211		6	43	10	2	2	17	12	38	<5	3	<20
51 9303212		6	22	13	<1	2	20	11	<20	<5	4	<20
51 9303213		6	41	16	<1	3	23	11	64	<5	4	<20
51 9303214		6	29	13	<1	3	25	12	36	<5	5	<20
51 9303215		6	20	14	1	3	31	14	80	<5	4	<20
51 9303216		8	18	15	<1	3	29	11	22	<5	8	<20
51 9303217		6	20	11	<1	3	25	12	42	<5	4	<20
51 9303218		4	20	13	1	2	32	13	36	<5	5	<20
51 9303219		6	16	13	<1	3	19	11	71	<5	3	<20
51 9303220		6	24	10	<1	3	24	23	65	<5	4	<20
51 9303221		5	15	14	1	3	28	13	<20	<5	4	<20



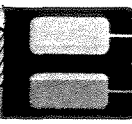
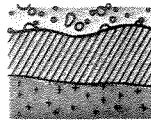
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SAMPLE NUMBER	ELEMENT UNITS	AU PFB	AG PPM	AS PPM	BA PPM	BE PPM	BI PPM	CD PPM	CE PPM	CO PPM	CR PPM	CU PPM
51 9303222		<5	0.8	26	186	<0.5	3	<1	49	13	33	43
51 9303223		<5	1.2	22	282	<0.5	4	<1	32	11	32	31
51 9303412		<5	0.7	18	261	<0.5	3	<1	24	8	17	23
51 9303608		<5	0.7	13	57	<0.5	3	<1	15	7	20	16
51 9303609		<5	0.7	8	92	<0.5	3	<1	48	5	17	10
51 9303610		9	0.7	19	50	<0.5	<2	<1	16	4	9	9
51 9303611	<i>Make in</i>	38	0.5	76	172	<0.5	3	<1	15	10	19	19
51 9303606	<i>Make in</i>	46	1.8	67	63	<0.5	3	<1	33	13	18	229
51 9304084		10	1.0	<5	122	<0.5	4	<1	44	6	17	13
51 9304403		8	0.9	8	155	<0.5	<2	<1	32	6	17	11
51 9304404		<5	0.9	<5	114	<0.5	3	<1	31	5	14	7
51 9304405		78	1.0	8	107	<0.5	<2	<1	18	7	16	14
51 9308601		<5	0.7	13	114	<0.5	<2	<1	19	8	30	15
51 9308602		<5	0.8	10	125	<0.5	3	<1	21	6	24	11
51 9308603		<5	0.7	10	148	<0.5	3	<1	15	7	24	10
51 9308604		<5	0.6	14	114	<0.5	<2	<1	16	7	21	13
51 9308605		6	0.7	17	112	<0.5	3	<1	22	10	19	34
51 9308606		<5	0.8	14	132	<0.5	<2	<1	17	8	25	12
51 9308607		<5	0.8	6	144	<0.5	4	<1	15	6	24	9
51 9308608		<5	0.9	12	170	<0.5	2	<1	18	6	19	15
51 9308609		<5	0.9	21	92	<0.5	3	<1	28	6	23	13
51 9308610		<5	0.8	13	188	<0.5	4	<1	27	11	27	11
51 9308611		<5	0.8	6	87	<0.5	<2	<1	14	5	21	7
51 9308612		<5	0.8	7	92	<0.5	2	<1	17	6	19	8
51 9308613		15	0.6	5	116	<0.5	3	<1	12	5	19	7
51 9308614		<5	0.7	<5	41	<0.5	2	<1	5	3	6	8
51 9308615		<5	0.9	11	183	<0.5	3	<1	41	10	33	25
C2 9305202	<i>Pit Gou</i>	41	1.1	35	>2000	<0.5	5	<1	28	7	49	13



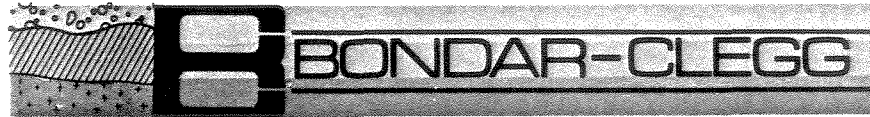
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SAMPLE NUMBER	ELEMENT UNITS	GA PPM	LA PPM	LI PPM	ND PPM	NB PPM	NI PPM	PB PPM	RB PPM	SB PPM	SC PPM	SN PPM
51 9303222		5	28	14	1	2	33	15	67	5	5	<20
51 9303223		8	20	11	<1	3	24	12	58	6	7	<20
51 9303412		6	10	6	<1	2	18	10	32	6	4	<20
51 9303608		4	9	8	1	2	15	8	76	<5	2	<20
51 9303609		4	29	7	<1	2	10	10	<20	<5	2	<20
51 9303610		4	8	6	1	2	7	11	82	<5	1	<20
51 9303611		3	10	12	1	2	16	13	<20	<5	2	<20
51 9303806		7	23	16	21	<1	12	25	<20	<5	6	<20
51 9304084		6	42	12	2	2	14	10	60	<5	2	<20
51 9304403		5	28	12	1	3	14	12	49	<5	2	<20
51 9304404		5	17	8	1	2	11	11	78	<5	2	<20
51 9304405		6	10	7	<1	3	14	9	71	<5	2	<20
51 9308601		4	10	13	1	2	21	10	32	<5	3	<20
51 9308602		5	12	10	<1	2	15	11	76	<5	2	<20
51 9308603		5	9	10	1	2	13	9	40	<5	2	<20
51 9308604		4	8	10	4	2	15	9	75	<5	2	<20
51 9308605		3	10	8	2	2	20	9	144	<5	3	<20
51 9308606		6	9	9	1	2	15	15	106	<5	2	<20
51 9308607		5	8	8	1	2	13	10	<20	<5	2	<20
51 9308608		7	10	6	2	3	13	12	38	<5	2	<20
51 9308609		5	14	11	1	2	15	11	67	<5	2	<20
51 9308610		6	12	11	1	2	17	12	78	<5	3	<20
51 9308611		5	8	8	<1	3	12	9	31	<5	2	<20
51 9308612		4	8	8	1	2	11	8	<20	<5	2	<20
51 9308613		4	7	8	<1	1	12	8	62	<5	2	<20
51 9308614		3	3	3	<1	<1	6	5	31	<5	<1	<20
51 9308615		8	20	16	<1	3	27	12	58	<5	5	<20
C2 9305202		6	13	2	4	2	17	35	22	<5	4	<20



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SAMPLE NUMBER	ELEMENT UNITS	SR PPM	TA PPM	TE PPM	V PPM	W PPM	Y PPM	ZN PPM	ZR PPM
S1 9303222		16	<10	<10	42	<10	9	56	5
S1 9303223		16	<10	<10	48	<10	12	47	7
S1 9303412		23	<10	<10	36	<10	6	35	6
S1 9303608		10	<10	<10	30	<10	2	35	1
S1 9303609		12	<10	<10	30	<10	5	34	2
S1 9303610		10	<10	<10	23	<10	2	37	1
S1 9303611		13	<10	<10	39	<10	3	54	3
S1 9303806		16	11	<10	47	<10	24	691	4
S1 9304084		17	<10	<10	29	<10	22	54	<1
S1 9304403		20	<10	<10	27	<10	12	51	<1
S1 9304404		16	<10	<10	30	<10	7	44	<1
S1 9304405		17	<10	<10	27	<10	4	41	1
S1 9308601		14	<10	<10	38	<10	3	41	4
S1 9308602		14	<10	<10	35	<10	4	35	3
S1 9308603		13	<10	<10	36	<10	2	56	3
S1 9308604		9	<10	<10	37	<10	2	35	2
S1 9308605		10	<10	<10	25	<10	3	50	2
S1 9308606		12	<10	<10	43	<10	2	67	2
S1 9308607		13	<10	<10	38	<10	2	38	3
S1 9308608		17	<10	<10	43	<10	2	37	3
S1 9308609		13	<10	<10	37	<10	3	44	1
S1 9308610		18	<10	<10	44	<10	3	75	3
S1 9308611		13	<10	<10	36	<10	2	40	2
S1 9308612		11	<10	<10	34	<10	2	43	2
S1 9308613		13	<10	<10	35	<10	2	50	2
S1 9308614		7	<10	<10	24	<10	<1	17	<1
S1 9308615		24	<10	<10	43	<10	8	55	4
C2 9305202		33	<10	<10	26	<10	8	86	6

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Area: 105L SNOWCAP CREEK

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Sample No.	Location	Description	Attitude	Width	Analytical Results				
					Al ppb	Ag ppm	Sb ppm	As ppm	Hg ppb
9301200 = ✓	LOCATED @ OUTCROP WHERE A. CARLOS SAMPLE #94 LOCATED. (LUNCH SPOT)	GREY PEBBLE BRECCIA DYKE CLASTS < 2cm SIZE AVG - ROUNDED. 40% GREEN-GREY SILICEOUS MATRIX	N-N-S STRIKE	~1.0m	<5	Co.2	14	<5	
9302201 ✓	~75m DOWNSTREAM OF #931401, IN CREEK	FLOAT - HAND SIZED BOLLDER OF FLOW BANDED ARGILLICALLY ALTERED RHY BX. 25% GREY WEATHERED PYRITE MATRIX	FLOAT	—	<5	Co.2	<5	35	
9302202 ✓	3 rd OUTCROP DOWNSTREAM - A. CARLOS SAMP #95.	FLOAT - QTZ - CHALCEDNEY-RHY - Bx, FIST SIZED. 30-40% ROUNDED TO SUB-ROUNDED QTZ-CHALCEDNEY CLASTS. 80% OF MATRIX (30% OF TOTAL VOL.) IS LIGHT GREEN CHALCEDNEY	FLOAT	—	<5	Co.2	<5	235	
9301201 =	@ Soil #9303002 3m WIDE GULLY @ SPHERULITIC RHYOLITE	STRONG ARGILLICALLY ALTERED RHYOLITE Bx IN GULLY. CONTACT BETWEEN FLAGGY RHY/DACITE TUFF AND ALTERED FLOW BANDED SPHERULITIC RHY.	083/455	3m					
9301202 = ✓	LOCATED @ WEST END OF OUTCROP SAME SITE AS #9303004 & 9301404	WHITE ARGILLICALLY ALTERED RHY BX WITH BROWN LIMONITE W TRACE YELLOW WEATHERED RIND. 1-2% VERY FINE CRASSED DULL GREY SULPHIDE BLEBS < 2cm ACROSS, POSS. Py & MARC-ASITE	—	—	<5	Co.2	<5	<5	

Not submitted
see T.G.
see #9301401

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Sample No.	Location	Description	Attitude	Width	Analytical Results				
					Au ppb	Ag ppm	Sb ppm	As ppm	Hg ppb
9302203	GOD ZONE TRENCH @ 10 TOON	FLUAT - SUBCROP OF RHY/ DACITE Bx. WEAK ARGILLIC ALTERATION, STRONGLY LIM. OXIDIZED, CLASTS SUB- ROUNDED, < 20cm ACROSS - AUG 5cm. MATRIX (5-10%) OF LIMONITE, ROCK FLOUR & CHALCEDONY (<1% QTZ), TRACE Py IN FRESH CENTER OF BOULDER	-	-	<5	<0.2	12	28	3600
9302204	GOD ZONE 35m @ 283° FROM 9+25N. 30cm DEEP PIT.	FLUAT ^{SUBCROP} RHYOLITE BRECCIA, CLAST SUPPORTED, 30% MATRIX OF LIMONITE, ROCK FLOUR & OPALINE (CHALCEDONY) QTZ, LIGHT GREY, GREEN, BLUE IN COLOR, CLASTS < 1.5cm (AUG) ACROSS OF SUBROUNDED RHY. HILLSIDE SLOPES EAST.	-	-	<5	<0.2	14	21	1500
9302205	GOD ZONE - LOCATED @ 9+55N 10m W. 1m DEEP TRENCH - PIT.	ROCK (DIRT) FLUAT SUBCROP. INTENSE ARGILLICALLY ALT. RHYOLITE. COMPLETELY FOTTON, SCRATCH WITH NAIL. Tr Mn STAIN	-	-	<5	<0.2	14	36	> 5000
9302206	GOD ZONE @ BL 11+20N/2ME @ R-19 SAMP. SITE.	LIMONITE STAINED RHY Bx. MN STAINED FRACTURED SURFACES, >1-2% UGS, 10% MATRIX - LIMONITE, CHALCEDONIC QTZ (<4%) CLASTS.	-	-	<5	<0.2	14	27	2800
9302207									

9302207
c. Para 4

Rock
RM

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					A _w ppb	A _g ppm	S _b ppm	A _s ppm
9301203 ^v	O.C. ABOVE BEAVER POND NW OF DUST BOWL CAMP. - @ 9303030 SAMP. SITE.	SLIGHTLY BLEACHED Bx. RHYOLITE. Bx OCCURS AS 1-2 cm WIDE Bx STRINGER ZONES CUTTING MASSIVE FOLIATED RHY. Bx STRINGERS CONTAIN <10% LIM, MN	160/90	GRAB	25	Co.2	12	11
9302208	IN TRENCH/PIT @ #9302205 SITE	FLOAT - SUBCROP - 1.2m CHIP SAMPLE BELOW CLAY OVERBURDEN SAMPLE. SAMPLE OF INTENSELY ARGILLICALLY ALTERED RHYOLITE - WHITE TO TAN COLORED BANDS 10-30cm WIDE RHY REDUCED TO CLAY OR SOFT ROCK w/ TALC. MINOR CHARCOAL IN RHY.	BANDS 250/20N	VERTICAL 1.2m	<5	Co.2	12	40 <hr/> >5000 ppb Hg
9302209	O.C. N.E. END OF CAMP LAKE	- RUSTY WEATHERING ARGILLICALLY ALT LAPILLI TUFF. UPTO 1% Py CUBE (1-2mm) DISS IN ± SILICEOUS ROCK FLOUR MATRIX (30% MATRIX)			<5	1.0	<5	10
9302210	@ 9303213, 100m NORTH OF 9302209	- LOCATED IN SOFL PIT 0.3 METRE DEEP. SILICEOUS RHY TUFF WITH TRACE Py. MATRIX (40%) IS LIGHT GREY Qtz.			<5	0.8	<5	<5
9302211	1.75m NORTH OF #9302209	- IN 0.3m PIT - RHYOLITE SUBCROP. - RUSTY WEATHERING RHY LAPILLI TUFF. CLAY ALT ROUNDED CLASTS AND X-TALS IN A GREY SILICEOUS UGGY MATRIX (40% MATRIX) □ TRACE Py BLEBS.			<5	0.6	<5	<5

Rock

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					Au ppb	Ag ppm	Sb ppm	As ppm
9302212	195 m NORTH OF 9302209	<p>FLUAT SIMILAR TO 9302211, INTENSE CLAY ALT CLASTS NO VISIBLE SULPHIDES. SILICEOUS LIGHT GREY MATRIX. RARE CHARCOAL FRAGMENTS.</p>			<5	0.8	<5	<5
9302213	175 m SOUTH OF #9303217	<p>FLUAT - COMPOSITE SAMPLE FROM (3) 0.3m DEEP PITS. - RHY LAPILLI TUFF, 60% SUBANGULAR CLASTS IN A SILICEOUS GREY Qtz MATRIX (40% MATRIX), WEATHERS RUSTY.</p>			<5	0.6	<5	<5
9302214	25m NORTH $\frac{1}{2}$ 50m EAST OF 9302213	<p>FLUAT - 0.3 - 0.4 m DEEP PIT. - SILICEOUS ALTERED RHYOLITE TUFF, GREY SILICEOUS MATRIX, 60% CLAY ALTERED CLASTS.</p>			<5	0.7	<5	19
9302207	LOCATED ON WEST FACING HILLSIDE ~300 m S OF GEO ZONE.	<p>- Qtz $\frac{1}{2}$ CHERT PEBBLE CONGL. OR Bx. ANGULAR CLASTS <5cm. IN DIA. AVG. 1.5cm. IN SILICEOUS FINE GRAINED MATRIX. - FLUAT IN GLACIAL TILL - MOST LIKELY TANTALUS CONGLOMERATE.</p>			9	<0.2	54	278
9301204	@ R-17 Sample TRENCH SITE	<p>- SAMPLE OF BRECCIATED RHYOLITE, 10% Fe-Mn STAINED ROCK FLOUR MATRIX. MAJOR CHALCEDONY, Tr Py.</p>			<5	<0.2	8	18

3900
ppb Hg

SILT
RH

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105L
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Sample No.	Location	Description	Attitude	Width	Analytical Results				
					Au ppb	Ag ppm	Sb ppm	As ppm	Hg ppb
9304201	"GOOD ZONE" 20m @ 190° FROM 125N/0+60E IN CREEK	BROWN-RED FE OXIDE 50% AND 50% BLACK BOG-ORGANIC GOOD. NO SILT - PEBBLES.	—	—	<5	<0.2	13	8	320
9304202	"GOOD ZONE" 50m @ 050° FROM BL 11+25N E. SIDE CREEK BANK	SAMPLE OF ASH-ORGANICS & PEBBLES OF STAINED SCHIST. 30-40% SILT/CLAY	—	—	<5	<0.2	14	30	180
9304203 ✓	WEST OF "GOOD" ZONE IN GULLY EAST OF CAMP.	- BETWEEN RHY OUTCROP (HILL) N 85° E EAST OF CAMP AND SMALL KNOLL-DRUMLIN - 50/50% CLAY-ASH-LIGHT. TAN LOCAL ELEV 1085m	—	—	<5	<0.2	16	31	30
9304204 ✓	"GOOD ZONE" @ BL 5+50N (CLAIM LINE!)	GOOD SAMPLE. SILT PEBBLES (ALL LITHOLOGIES) IN SLOW CREEK - TRICKLE BETWEEN ROOTS.	—	—	10	<0.2	13	23	1000
9304205 ✓	"GOOD ZONE" @ BL 17+51N ON N. FLOWING CREEK.	O.K. SAMPLE. BOGGY CREEK. SAND, SILT, CLAY, ORGANICS IN POOL. FE OXIDE & "GOOD" PRESENT	—	—	<5	<0.2	15	31	140
9304206 ✓	"GOOD ZONE" ~ 700 M. SOUTH OF R-18 SAMPLE SITE	FE OXIDE SIMILAR TO SAMPLE ON N. SIDE #9304201. SAND, SILT PEBBLES - ALL TYPES.	—	—	10	<0.2	16	41	120
9304207 ✓	BELOW #9304203	- DRIED UP CREEK - - ALL KINDS OF PEBBLES - GLACIAL.	—	—	<5	<0.2	12	24	55

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					As	Ag	Sb	As
9301W01	Area north of highway Location is 6 1/2 km bearing 285° from Little Salmon Lake Campground and 1.5 km due north from highway	Dk gray rhyolite, lapilli tuff containing rhyolite clasts and trace disseminated, fine grained pyrite		1.2 m wide o/c under knoss	9	<0.2	8	<5
9301W02	" " -southwest facing slope	Coarse grained foliated basic volcanic rock containing magnetic crystals (1 mm)		4 m wide	<5	<0.2	14	<5
9301W03	" "	Light to dark rust/orange wtng porphyritic rhyolite containing phenocrysts of quartz, feldspar and hornblende. Phenocrysts comprise 90% of rock. Limonite, Mn coatings and trace pyrite		4 m wide	<5	<0.2	<5	<5
9301W04	" " -near bottom of hill	Bleached, sheared o/c of altered rhyolite? or ash tuff. Very fine grained medium greenish gray		2m wide scattered over 10m	<5	<0.2	6	<5
9302W01	" "	Maroon/brown altered porphyry containing fine grained feldspar phenocrysts and <1% malachite specks and disseminated sulphides.	Float		<5	<0.2	8	<5
9302801	South map area -3050 ft. elevation 1.7 km southwest from camp	Orange wtng volc. conglomerate Medium brown/maroon matrix (10% of rock) containing volcanic clasts. 20% of rock is limonite 5% is chalcidony veinlets, Minor hematite. Near ash tuff containing plant fragments	Subcrop		8	<0.2	13	31

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					Au (ppb)	Ag ppm	Sb ppm	As ppm
9301800	South Map Area "Skunk" Zone 500 m northwest from camp @ 3550 ft. elevation	Altered volcanic breccia. Light orange w/whed surface, some white/yellow/red. Matrix is light gray-creme, soft, non-calcareous. Abundant pumice fragments containing limonite filled vesicles and 1% Qtz filled vesicles. Volc. breccia fragments and matrix contain hairline streaks and replacement hematite (up to 5%). 2-3% of rock has Mn coating.		o/c on both sides of 25 m wide gully	<5	<0.2	21	132
9301801	" "	same as above -bright yellow powder -calcite infilling pumice vesicles		subcrop on North side of gully	<5	<0.2	13	46
9301802	" " From soil sample pit # 9303805	same as above		subcrop	<5	<0.2	24	125
9301803	Central map area 1 km south of camp @ 2400' level elevation.	6 cm wide bull quartz lens coated with limonite specks and patches in a dark green/ black biotite/pyroxene/amphibole schist. Magnetic			<5	1.4	<5	<5
9301804	200 m east of above outcrop	Massive andesite containing quartz veinlets and epidote.			<5	2.7	<5	<5
9301805	" " (same site as sample 9301804)	Rust/orange/white weathering rhyolite containing 1% disseminated pyrite			<5	1.4	<5	<5

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					Au ppb	Ag ppm	Sb ppm	As ppm
9301806	Central map area 1 km southeast from camp	Pink and green lapilli tuff 5-10% hematite			<5	0.7	<5	<5
9301807	" "	Orange weathering rhyolite - Minor hematite blebs			<5	0.9	<5	<5
9301808	" "	Light tan/white/green wtng rhyolite? or rhyolite tuff?			<5	1.0	<5	<5
9301809	" "	Spherulitic rhyolite, light green/white Spherulites < 2mm			<5	1.3	<5	5
9301810	" "	Dk-med greenish gray rhyolite containing minor spherulites			<5	1.2	<5	10

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Area: South and central map areas Page 4 of 5

Sample No.	Location	Description	Attitude	Width	Analytical Results			
					Au (ppb)	Ag ppm	Sb ppm	As ppm Hg ppb
9303800	South map area 3050 ft elevation 1.7 km southwest from camp	<u>SOIL SAMPLES</u> 25 cm deep pit under patch of rusty rhyolite fragments - brownish-red soil			<5	<0.2	10	11 / 20
9303801	" " " above T.G. sample 3403	sample from below uprooted tree - orangy soil, rare rhyolite fragments			<5	<0.2	12	13 / 40
9303802	- collected at site of rock sample #9302801	- brownish soil collected below ash layer			<5	<0.2	10	6 / 30
9303803	South map area "Skunk Zone" 500 m northwest from camp at 3550 ft elevation	0.5 m deep pit dug through ash layer to bottom B horizon - orangy brown soil			<5	<0.2	13	9 / 20
9303804	" " "	0.8 m deep pit below ash layer to bright orange soil. Soil sample collected at bedrock			151	<0.2	13	11 / 10
9303805	" " "	" " " - subcrop			<5	<0.2	15	63 / 70
9303806	Central map area 1 km south of camp @ 2400' level elevation	rusty soil from 3 cm wide shear zone (rock sample #9303806)			46	1.8	<5	67

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
9303001 ✓	MAIN OUTCROP SNOWCAP	CLIFF BASE EAST END OF MAIN OUTCROP SNOWCAP CASE	2300					
3002 ✓	"	SOIL - RUSTY BASE OF OUTCROP	"					86
3003 ✓	"	SOIL - DECOMPOSING ROCK MATERIAL	"					180
3004 ✓	"	SOIL - SAME LOCATION AS ROCK 9301400	"					307
3005 ✓	"	SOIL - SMALL CHUR 30 M WEST END OF ROCK 9301400	"					21
3006 ✓	"	SOIL - CLIFF BASE 40 M DOWNLENGTH OF ROCK 9301400	"					24
3007 ✓	"	SOIL - BASE OF CRUTE SAME LOCATION AS 9301400	"					86
9305008 HMC	SOUTH AREA SNOWCAP	PAN - TAKEN SAME SPOT AS A.C. R-18 TRENCH RUSTY MATERIAL (RHY -) VERY FEW MAGNET	3400					
9303009	"	SOIL - 4 M DEEP RUSTY 9150 WEST LINE AREA OF R-18	"					3250
3010	"	SOIL - 4 M DEEP RUSTY 9175 WEST LINE	"					1600
3011	"	SOIL - .25 M DEEP, RUSTY, 6 M EAST OF 10700 WEST LINE JUST BELOW R-18	"					1100
3012	"	SOIL - .3 M DEEP, RUSTY, 3 M EAST OF 10725 WEST LINE	"					1950
3013	"	SOIL - 5 M DEEP, WATER SEEP 10750, WEST LINE	"					365
3014	"	SOIL - 14 M DEEP, 2 M NORTH OF 10775 WEST LINE, RUSTY	"					2500
3015	"	SOIL - 15 M DEEP CLAY MATERIAL 1100 WEST LINE	"					1800
3016	"	SOIL - 3 M DEEP, 7 M EAST OF 1125 M WEST LINE	"					7500
3017	"	SOIL - .3 M DEEP, FROZEN GROUND 3 M NORTH OF 1150 WEST LINE	"					380
3018	"	SOIL - 4 M DEEP, 4 M NORTH OF	"					2050

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Sample No.	Location	Description	Attitude	Width	Analytical Results				
					Au ppb	Ag ppm	Sb ppm	As ppm	Hg ppb
9303019	SOUTH AREA SNOWCAP	SOIL - .3M DEEP, 5M WEST 12+00N WEST LINE	3400		58	20.2	6	14	3100
3020	" "	SOIL - .3M DEEP FROZEN GROUND 3M WEST OF 12+50 WEST LINE	"		31	20.2	5	13	315
3021	" "	SOIL - .4M DEEP, 2M EAST OF 12+90 WEST LINE	"		12	20.2	7	16	230
3022	" "	SOIL - .4M DEEP, 4M EAST OF 13+20 WEST LINE	"		11	20.2	8	20	470
9303023	" "	SOIL - .3M DEEP, FROZEN GROUND 12+50 N EAST LINE	"		25	0.2	7	12	1150
3024	" "	SOIL - .3M DEEP, 12+00N EAST LINE	"		6	20.2	10	19	310
3025	" "	SOIL - .4M DEEP 11+50 N EAST LINE	"		8	20.2	8	24	950
3026	" "	SOIL - .3M DEEP, 11+00N EAST LINE	"		133	20.2	8	24	205
3027	" "	SOIL - .3M DEEP, 10+50N EAST LINE	"		51	20.2	25	17	100
3028	" "	SOIL - .3M DEEP SHIT FRAGS 10+50N EAST LINE	"		25	20.2	7	16	65
3029	" "	SOIL - .3M DEEP, RUSTY 9+50N EAST LINE	"		29	20.2	15	13	280
9303060	MAIN OUTCROP SNOWCAP	SOIL - 150M EAST OF START OF MAIN CLIFF OUTCROP, 100M NORTH OF CREEK, B HORIZON	2375		25	0.7	25	7	
3061	" "	SOIL - B HORIZON 50M WEST OF 3060	"		25	0.5	25	20	
3062	" "	SOIL - B HORIZON 50M WEST OF 3061	"		25	0.6	25	19	
3063	" "	SOIL - B HORIZON 50M WEST OF 3062	"		7	0.8	25	15	
3064	" "	SOIL - B HORIZON 50M WEST	"		25	0.7	25	25	

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					Al PPH	Fe PPH	Sb PPH	As PPH
3065	MAIN OUTCROP SNOW CAP	SOIL - B HORIZON SOM WEST OF 3064	1375		25	0.9	<5	<5
3066	"	SOIL - B HORIZON SOM WEST OF 3065 SOME ROCK FRAGS	"		<5	0.7	<5	15
3067	"	SOIL - B HORIZON SOM WEST OF 3066	"		34	0.9	5	19
3068	"	SOIL - B HORIZON SOM WEST OF 3067	"		<5	0.8	<5	23
3069	"	SOIL - B HORIZON SOM WEST OF 3068	"		<5	0.7	<5	30
3070	"	SOIL - B HORIZON MIXED PEBBLES SOM WEST OF 3069	"		41	0.7	<5	18
3071	"	SOIL - B HORIZON SOM WEST OF 3070	"		<5	0.6	<5	12
3072	"	SOIL - B HORIZON MIXED PEBBLES 80% JALCANES SOM WEST OF 3071	"		<5	0.6	<5	7
3073	"	SOIL - B HORIZON SOM WEST OF 3072	"		<5	0.6	<5	<5
3074	"	SOIL - B HORIZON SOM WEST OF 3073	"		<5	0.7	<5	11
3075	"	SOIL - B HORIZON SOM WEST OF 3074	"		<5	0.7	<5	20
3076	"	SOIL - B HORIZON SOM WEST OF 3075	"		13	0.8	<5	17
3077	"	SOIL - B HORIZON SOM WEST OF 3076	"		<5	0.7	<5	16
3078	"	SOIL - B HORIZON SOM WEST OF 3077	"		<5	0.7	<5	10
3079	"	SOIL - B HORIZON SOM WEST OF 3078	"		<5	0.6	<5	<5
3080	"	SOIL - B HORIZON SOM WEST OF 3079 END OF LINE	"		<5	0.8	<5	8

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Sample No.	Location	Description	Attitude	Width	Analytical			Results		
					A ₄ PPM	A ₅ PPM	S ₅ PPM	A ₅ PPM		
9303081	MAIN OUTCROP SNOWCAP	SOIL - B HORIZON BASE OF OUTCROP LOCATED 2KM SOUTH EAST OF CAMP SAME LOCATION AS ROCK SAMPLE 9301410	3600 FT				8	0.7	<5	11
3082	" "	SOIL - B HORIZON BASE OF OUTCROP 25M WEST OF ROCK 9301410	"				6	0.6	<5	13
3083	" "	SOIL - B HORIZON BASE OF OUTCROP 4M EAST OF ROCK 9301410	"				<5	0.7	<5	7
930.4084 SILT	" "	SILT: TAKEN FROM SMALL CREEK 200M WEST OF ROCK SAMPLE 9301410 SAME ELEVATION.	"				10	1.0	<5	<5

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Sample No.	Location	Description	Attitude	Width	Analytical Results				
					As	Pb	Pb	As	Hg
					PPM	PPM	PPM	PPM	PPM
9303030	SOUTH AREA SNOWCAP	SOIL - B-HORIZON BASE OF OUTCROP SAME LOCATION AS ROCK SAMPLE 9301203 START OF SAMPLING LINE 50M SPACINGS			25	<0.2	<5	<5	10
9303030/1	"	SOIL - B-HORIZON BROWN DIRT 50M EAST 3030			27	<0.2	14	<5	25
9303032	"	SOIL - B-HORIZON TAN ASH 50% PERMAFROST 50M EAST 3031			6	<0.2	12	6	30
9303033	"	SOIL - PEBBLES, SILT, SAND, TAN COLOUR GOOD SAMPLE 50M EAST 3032			6	<0.2	15	11	75
9303034	"	SOIL - HUMUS, ASH, SILT, SAND NORTH SLOPE - PERMAFROST 50M EAST OF 3033			<5	0.2	10	11	120
9303035	"	SOIL - HUMUS ASH POOR SAMPLE 50M EAST OF 3034			<5	<0.2	19	7	70
9305036 HMC	"	H, M, C - 20M EAST OF 3035. IN CREEK RHY BOULDERS IN CREEK BLACK STAINING MOSTLY ASH AND FINE CLAYS			<5	<0.2	11	<5	80
9303037	"	SOIL - B-HORIZON BROWN PEBBLES			25	<0.2	16	10	40
9303038	"	SOIL - B-HORIZON TAN PEBBLES			25	<0.2	12	8	40
9303039	"	SOIL - B-HORIZON GOOD SAMPLE			14	<0.2	15	<5	5
9303040	"	SOIL - POOR SAMPLE - ASH RHY FRAGS			<5	<0.2	10	6	30
9303041	"	SOIL - POOR SAMPLE - ASH STAWED PEBBLES OUTCROP SK 20M SITE OF A.C R-17			8	<0.2	10	<5	15
9303042	"	SOIL - IN GULLY 10M N OF R-17 BROWN SOIL PEBBLES			6	<0.2	12	13	70
9304043 SILT	"	SILT - 30M UPSTREAM FROM R-17 OUTCROP NORTH SIDE			<5	<0.2	9	5	40
9303044	"	SOIL - 50M EAST OF R-17 WEST BANK ANGULAR R, H, Y FLOAT			27	<0.2	11	10	45

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Sample No.	Location	Description	Attitude	Width	Analytical Results				
					As	Pb	Cd	Hg	Ug
9303045	SOUTH AREA SNOWCAP	SOIL - 75M WEST OF R-17 IN GULLY - GLACIAL TILL			<5	<0.2	10	16	15
3046	"	SOIL - 50M UPSTREAM (S. SIDE) FROM SAMPLE 3041 GRAY, CLAY, SILT			<5	<	14	13	50
3047	"	SOIL - GRAY, CLAY, ASH GLACIAL TIL 50M EAST OF 3046			<5	<0.2	13	11	70
3048	"	SOIL - ASH SILT, PEBBLES RHY FLOAT 50M EAST OF 3047			<5	<	11	9	100
3049	"	SOIL - TAN, SILT, PEBBLES RHY FLOAT 50M EAST OF 3048			<5	<	12	18	135
3050	"	SOIL - HUMUS, ASH, RHY, PEBBLES 50M EAST OF 3049 LAST SAMPLE ON LINE			6	<0.2	12	15	95
9304051 554	"	SILT - SWAMPY DRAINAGE EAST OF 3050			<5	<0.2	9	5	30
9303204 v - R.H. sample #	"	SOIL - ON NORTH SLOPE OF HILL EAST OF CAMP SLOUGH TAN, CLAY, ASH, SITE OF JASPER FLOAT GLACIAL IN ORIGIN			<5	<0.2	15	29	35
3205 ✓ R.H. sample #	"	SOIL - TAN, RUSTY, PEBBLES OF R.H.Y (50% CLAY) 12 M FROM 9150'S WEST LINE AT 40° 1.90M DEEP PIT			<5	<0.2	15	23	> 5000
9305201 v H.M.C.	"	H.M.C. - FROM SAME PIT AS 3205, 90% RHY 10% SHIST (50% CLAY) SPECKS OF NEMATITE		72000 Ba	<5	<0.2	11	<5	> 500

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					Au ppb	Ag ppm	Sb ppm	Hg ppm
9304206 SGL	SOUTH AREA SNOWCAP	SILT - 700 M TO SOUTH OF R-18 FE OXIDE, SAND SILT. PEBBLE ALL TYPES			10	<0.2	<5	41 120 ppb Hg
9304203 SGL	" "	SILT - BELOW 4206 - DRIED UP CREEK ALL KINDS OF PEBBLES			<5	<0.2	<5	30 ppb Hg
9305202 Hmc	" "	H.M.C - PIT SAMPLE SAME LOCATION AS ROCK 9302205, MAGNETITE, WHITEISH MINERAL HEAVY W? FINE GRAINED SULFIDES		72000 Ba	41	1.1	<5	35

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Sample No.	Location	Description	Attitude	Width	Analytical Results				
					Au Ppb	Ag PP-	Sb PP-	As PPM	Hg Ppb
-9303201	GDD ZONE 9+65N/10E 1 m DEEP PIT @ HEAD OF N 3/4 S FLOWING CREEKS	TAN CLAY-SILT, MINOR RHYOLITE PEBBLES.	—	—	<5	<0.2	26	51	140
9303202	GDD ZONE 40m @ 230° FROM #9302204.	1 m DEEP PIT, CLAY -TAN-SANDY SILTY SOIL. LIMONITIC RHY (AS #9302204) BX1 ON CREST OF HILL SLOPING SOUTH	—	—	<5	<0.2	21	39	3400
9303203	GDD ZONE 1 m Deep Pit 78m @ 070° FROM 9302204.	TAN-SANDY SILTY SOIL -ROUND BOULDERS OF ALL LITH. -GLACIAL, SLOPING SOUTH.	—	—	<5	<0.2	18	37	145
9303204-205	—	—	—	—	—	—	—	—	—
9303206	UTM 6889500 N 503280 E N. BANK SNOWCAP CK.	SOIL IN 050° TRENDING GULLY. GREY SILT-CLAY RHYOLITE PEBBLES. RHY O.C.	—	—	<5	1.2	<5	16	
9303207	90 m DOWNSTREAM OF #9303207 N. BANK SNOWCAP CK.	GLACIAL TILL, RHY GN-SCHIST PEBBLES.	—	—	<5	1.1	<5	19	
9303208	~200 m DOWNSTREAM OF #9303206	IN SMALL GULLY. RHY PEBBLES (RHY O.C.) GLACIAL TILL, A0 IN SAMPLE	—	—	<5	1.1	<5	16	

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Sample No.	Location	Description	Attitude	Width	Analytical Results				
					As ppb	Ag ppm	Sb ppm	As ppm	Hg ppb
9303209	~ 300 m DOWNSTREAM OF # 9303206	- SOIL - SILT IN A DRY GULLY. O.C. OF RHY LAPILLI TUFF.	—	—	<5	1.2	<5	22	
9303210	~ 400 m DOWNSTREAM OF # 9303206	.RHY O.C. - SOIL - SILT	—	—	<5	0.9	<5	15	
9303211	LOCATED @ O.C. @ N.E. END OF CAMP LAKE - BELOW # 9302209	- POOR SAMPLE - LIMONITE OR RUSTY STAINED ASH, NO SOIL DEVELOPMENT OVER RHYOLITE OUTCROP	—	—	<5	0.7	<5	12	
9303212	50 m NORTH OF 9303211	- 0.3 m DEEP - POOR SAMPLE, BROWN CLAYEY DIRT - GLACIAL TILL WITH RHYOLITE CLASTS.			<5	0.9	<5	12	
9303213	100 m NORTH OF 9303211	- SAME AS 3212			<5	1.0	<5	8	
9303214	150 m NORTH OF 9303211	- 0.4 m Deep PIT - SANDY PEBBLEY GLACIAL TILL TO BOLLDERS OF Kgd AND RHY. - POOR SAMPLE.			<5	1.0	<5	14	
9303215	205 m NORTH OF 9303211	- 0.8 m Deep PIT. - EDGE OF SPRUCE GROVE(N) AND ESKER TO SOUTH. - SANDY PEBBLEY GLACIAL TILL OUTWASH(?)			55	1.0	<5	18	
9303216	275 m NORTH OF 9303211	- 0.4 m Deep PIT - SAME AS 3215			<5	1.2	<5	11	

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Sample No.	Location	Description	Attitude	Width	Analytical Results				
					Au PPB	Ag PPM	Sb PPM	As PPM	Hg PPB
9303217	- 150m WEST OF 3216 ON TOP OF ESKER, N. EDGE.	- SAME AS 3215 & 3216			<5	1.1	<5	17	
9303218	- 120m SOUTH OF 3217	- ON TOP OF ESKER - SAME AS 3215 & 3216			<5	0.5	<5	24	
9303219	- 175m SOUTH OF 3217	- 0.30 m DEEP PIT, - COMPOSITE SOIL FROM THREE PITS, BROWN-TAN CLAYEY SOIL.			<5	1.1	<5	11	
9303220	- 225m SOUTH OF 3217	- 0.40 m DEEP PIT. - AS 3219 - ALTERED RHYOLITE LAPILLE TUFF COMMON IN TILL.			7	1.0	<5	17	
9303221	- 275 m SOUTH OF 3217	- 0.30 m DEEP PIT. - AS 3219, EXCEPT NO VISIBLE RHYOLITE TUFF.			<5	0.8	<5	15	
9303222	- 325 m SOUTH OF 3217 ON ESKER N. SIDE CAMP LAKE.	- 0.30 m DEEP PIT. - GLACIAL TILL, SAND, PEBBLES OF ALL LITHOLOGIES.			<5	0.8	5	26	
9303223	- elev. 990m - NORTH OF LITTLE SALMON LAKE UTM	- ASH, LIM - RUST STAINED SOIL.			<5	1.2	6	22	

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					Au PPb	Hg PPM	Sb PPM	As PPM
9301400	Large outcrop in East-Watercreek in Map Area 2	Rhyolite volcanic breccia w/ 15% chalcedonic quartz in the matrix minor pyrite	adjacent to fault 150/45W	Grab	<5	<0.2	6	<5
9301401	"	Spherulitic rhyolite w/ 30% grey chalcedonic quartz between spherulites	frond of adjacent flow banding 125/60S	grab	<5	<0.2	<5	12
9301402	"	silicified banded rhyolite with 10% fg diss. pyrite ± arsenopyrite along a distinct recessive gully. Brecciated locally	180/90	0.4m	<5	<0.2	6	<5
9301403	" 3rd large etc to west.	silicified and brecciated rhyolite with up to 20% silica in narrow zone zone. Locally contains 10% pyrite in matrix.		0.5 to 2m	17	<0.2	9	632
9301404	" at westernmost end of outcrop	rhyolite lithic lapilli tuff with rhyolite fragments altered to a dull green clay (5-10%) - 5% marcasite and pyrite		grab	<5	<0.2	<5	<5
9302401	Go0 area, Sweet part. Map area 1	Volcanic conglomerate (ep. clastic) with limonite rich matrix, minor chalcedony.		" bedden	<5	<0.2	13	36
9301405	Go0 Area Skunk Zone from base of soil hole 9303408	brecciated rhyolite cemented with limonite, goeper/hematite ± opaline silica, chalcedony and Mn/Goethite wood fragments are subangular to subrounded and up to 50cm across. - contains up to 50% goeper/hematite fragments consist of pumice, rhyolite tuff, massive		3	6	<0.2	18	147

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					Al	Fe	Sb	As
9301405 cont'd		ryholite, quartz eye porphyritic rhyolite and fragments of thin cuticles, jasper, chalcedony and calcite in vugs and as replacement mineral			6	<0.2	18	147
9301406	Skunk zone, east end of trench	aa - 20% jasper		grab	<5	<0.2	17	82
9301407	Map area 2 850m SE of camp Lake	Spherulitic rhyolite with 5% quartz between spherulites - contains 2-5% lim.		grab	<5	0.8	<5	<5
9301408	Map area 2 1900m SE of camp Lake	Rhyolite breccia with 40% angular clasts of rhyolite up to 3cm across. matrix is well indurated and siliceous		grab	78	0.9	<5	<5
9301409	"	Adjacent to above etc. clay altered lithic lap. ll. tuff		grab	<5	0.9	<5	<5
9302402	Map area 2 2000m SE of Camp Lake	large area of moss covered talus in trees. partially silicified rhyolite with original textures obscured 2-3% vfy grey metallic mineral + trace to 5% pyrite, 5% 2mm size x-cutting veinlets		grab	<5	0.8	<5	60
9302403	"	aa no chalcedony - very luggy. trace grey metallic		grab	<5	0.6	<5	41
9302404	"	aa composite		grab	<5	0.6	<5	21

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					Ag	As	Sb	As
9301410	Map Area 2 220m SE of Camp Lake adjacent to soil 9303081	outcrop of quartz-sericite altered rhyolite with obscured original textures with 1-2% pyrite and trace gray silver metallic mineral • 1-1mm wide banded chalcedony veins. fine - some spherulitic spherulitic textures.	1m x 5m aren.	grabs	<5	0.8	<5	<5
9301411	11	quartz sericite altered rhyolite with 3-4% fine grained diss. pyrite cubes...			<5	1.0	<5	10

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Sample No.	Location	Description	Attitude	Width	Analytical Results				
					Au PPb	Ag PPm	Sb PPm	As PPm	Hg PPb
Soil Samples		All samples below treeline							
9303401	Geo area, SW (Map area 1)	lt. orange brn clay rich soil / till? with 25% rock fragments / 80% of which are rhyolite			<5	<0.2	8	<5	50
9303402	~50m SW of 3401	grey green clay rich soil / till w/ subcrop of rhyolite and brecciated rhyolite adjacent to sample site.			<5	<0.2	9	<5	45
9303403	~250m NW of 3401 50m west of 3801	grey brn soil / till on slope with abundant rhyolite ash tuff with wood fragments in talus.			<5	<0.2	9	11	90
9303404	Geo area, NW	med brn - orange brn soil / till with angular fragmental rhyolite and subrounded cobbles			<5	<0.2	14	<5	10
9303405	150m NE of 404	med. brn till with subrounded to subangular rhyolite clasts			<5	<0.2	9	<5	120
9303406	Geo area - north	soil (till) from top of mudslide consisting of med sandy brn glacial till with rounded med sed. frags. and subangular rhyolite frag.			<5	<0.2	14	12	55
9303407	Geo area: skunk zone	Orange brn soil dug from under hill on top of rhyolite breccia outcrop			<5	<0.2	20	39	20
9303408	" across gully from 3804	" 20% organic (roots)			6	<0.2	20	42	35

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					As Pb	As	Sb	As
Stream Sediment Samples					Ppb	Ppm	Ppm	Ppm
9304401	Good area, northern part	muddy med brn silt from a bubbling spring 100m downslope of 4800 10% organics			<5	<0.2	11	21
9304402	2nd stream 50m east of 4401	muddy brn silt from below a spring 5% organics			<5	<0.2	12	22
9304403	Map area 2 small creek at 3700' 1900m SE of Camp Lake	med brn silty mud in small creek ~5% organics			8	0.9	<5	8
9304404	Map area 2 1600m SE of Camp Lake	med brn sandy silt in 40cm wide flowing brook - alder patch: abundant rhy frags - 5% pebbles + 5% organics in sample.			<5	0.9	<5	<5
9304405	head of creek with 350 ppt Au HMC anomaly	med brn muddy silt sample in 20cm wide brook - below etc of oxidized + brecciated limestone 5% org, 5% pebbles			78	1.0	<5	8

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					AU	Ag	SS	As
9301601	Near R18 and 19 (south area)	Quartz - Feldspar - Muscovite schist: moderately to weakly silicified and fractured 15% hematite stain; 5% specular hematite; trace quartz carbonate veinlets.	—	—	25	0.2	16	37
9301602	West end of south area	Rhyolite breccia: trace very weak clay alteration(?), no visible sulphides nor quartz veining	—	—	25	0.2	13	27
9301603	West end of south area	Rhyolite breccia: fragments are weakly altered to clay, matrix consists of minor chalcedony. 0-3% ^{fossil} plant fragments, no visible sulphides.	—	—	25	0.2	12	17
9301604	West end of south area	Rhyolite breccia: same as 9301603 with slightly more chalcedony within matrix.	—	—	25	0.2	14	23

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					As PPm	As PPm	Sb PPm	As PPm
9301605	SKUNK ZONE, in south area	Rhyolite brecciated and is filled with ^{10-20%} jasper/ chalcedony, intense to moderate limonitic alteration. • 2-5% manganese clots, 3-5% weathered open and pitted vuggs.			25	20.2	19	125
9301606	SKUNK ZONE, in south area	Rhyolite: As 9301605, with upto 30% open vuggs, 5% jasper/chalcedony brecciated texture is obscured by vuggy texture			25	20.2	24	131
9301607	SKUNK ZONE, in south area	Rhyolite. strongly brecciated with 15-20% jasper/ chalcedony matrix, weakly developed vuggy and pitted texture.			7 45	20.2	18	106
9301608	SKUNK ZONE, in south area	Rhyolite: strong clay alteration, 0-3% jasper/chalcedony matrix, 5-10% vuggs.			25	20.2	24	108

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					As	Ag	Sb	Pb
9301609	@ approx 2450' elevation archive main showing in central area	Rhyolite very weedy silicified, medium buff to very light green, no visible sulfides.			As PPM	Ag PPM	Sb PPM	Pb PPM
9302601	35m @ 110° from 11+25 in the south area	Massive fine grained manganese and hematite with 2-5% quartz blobs, no visible sulfides. Sample taken from frost boil in Swamp		} 72000 PPM Ba	As <5	Ag <0.2	Sb 123	Pb <5 300 PPM Hg
9302602	35m @ 110° from 11+25 in the south area	Specular hematite with 15% vein quartz, no visible sulfides. Sample taken from frost boil in swamp			As <5	Ag <0.2	Sb 59	Pb 128 65 PPM Hg
9302603	15m North of 9302602.	Massive hematite with 2% quartz stringers, no visible sulfides, sample taken from frost boil in swamp			As <5	Ag <0.2	Sb <5	Pb 23 320 PPM Hg
9302604	@ approx 2450' elevation, North of main showing in central area	Rhyolite moderately silicified, fine grained, moderate sericitic alteration. Medium gray, trace Py (?). Sample taken from till sample hole			As <5	Ag 1.4	Sb <5	Pb 78

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					Al ppm	Ag ppm	Sb ppm	As ppm
9302605	approx 1500m @ 115° from camp in central area (approx 3000' elev)	Flow banded rhyolite, 0-3% hematite ± trace reedgar (?), trace veggs with silica and hematite linings.			<5	0.6	<5	<5
9302606	"	Flow banded rhyolite medium chocolate brown, trace fractures with ± silica infillings			<5	0.8	<5	<5
9302607	"	Rhyolite: Moderately altered to clay, weak to moderate shear fabric (?), 2% manganese clotts, 1% strongly weathered py grains (?).			<5	1.0	<5	<5
9302608	"	Rhyolite: white to reddish buff, weak shear fabric, moderately altered to clay, trace-2% weathered py cubes, 3% grainy black metallic mineral.			<5	0.7	<5	<5

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					As ppm	Ag ppm	Sb ppm	Pb ppm
9302609	"	As 9302608.			<5	0.8	<5	<5
9302610	"	Rhyolite dark gray, weakly silicified (?), trace chalcocopy veinlets, 0-1% weathered Py cubes, 0-2% hematite, ± trace realgar(?)			<5	0.8	<5	<5
9302611	"	Rhyolite dark gray, weak shear fabric (?), 0-2% hairline quartz veinlets, 0-1% weathered Py cubes.			<5	0.6	<5	<5
9302612	"	Rhyolite dark brownish-gray and white, 0-1% chalcocopy veinlets, 0-2% hematite, ± 0-trace realgar(?), 0-1% weathered Py.			<5	0.6	<5	<5

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					As	Ag	Sb	As
9302613	"	Rhyolite: light gray, weakly silicified, 5% 0.1-5mm vugs with moderate limonite alteration, trace hematite throughout.			ppb	ppm	ppm	ppm
					<5	0.7	<5	Hg ppb <5
9302614	"	Rhyolite: moderately to weakly silicified, weak shear fabric (?), trace-2% weathered py cubes, weak clay alteration.			<5	0.7	<5	<5
9303601	West of camp in south area.	Soil taken from low lying area of subcrop. Subcrop consists of rhyolite breccia.			<5	<0.2	12	14 30
9303602	"	Soil sample taken near rock sample 9301603. Rock sample consists of clay altered rhyolite breccia with chalcopyrite-bearing matrix.			<5	<0.2	12	16 10

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					As	Pb	Sb	As
9303603	"	Soil from limonitized rhyolite breccia (?) volcaniclastic (?), Q=1% fossil plant fragments.			<5	<0.2	11	Hg Pb / 70
9303604	900m @ 055° from southern campsite	Soil from location above Fe-carbonate altered basalt.			<5	<0.2	14	<5 / 15
9303605	"	"			<5	<0.2	19	8 / 30
9303606	"	"			<5	<0.2	14	14 / 45
9303607	"	"			<5	<0.2	10	9 / 20
9303608	@ approx 2950' elev. north of main rhyolite showing in central area. 140m west along soil contour survey.	Soil sample taken from 1.5m high rhyolitic ridge trending 025°. Sample depth 7-10cm; soil color medium buff-brown.			<5	0.7	<5	13

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					Au ppm	Pb ppm	Sb ppm	As ppm
9303609	@ approx. 2475' elev, north of main rhyolite showing in central area, 355m West along soil contour survey	Soil sample taken from subcrop of rhyolite. sample depth is 10-15cm from surface. No ash layer located.			<5	0.7	<5	8
9303610	606m west along soil contour survey, @ approx 2475' elev	Soil Sample: medium orange-brown soil sampled 30cm below surface and 5cm above subcrop. (No till available)			9	0.7	<5	19
9303611	662m West along soil contour survey @ approx 2475' elev.	Soil Sample: medium orange brown soil taken 30cm from surface, rhyolite frags encountered @ 30-35cm from surface			38	0.5	<5	76

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					As ppm	Ag ppm	Sb ppm	As ppm
9308601	approx 1250m @ 030° from Camp in central area. Elevation at sample site is approx. 2425'. " @ 0.0m west along soil contour line" (starting point)	till sample: taken 3-5cm below ash layer. till is greater than 1.0m in depth. Sampled material is very fine grained, medium buff-brown			<5	0.7	<5	13
9308602	" " @ 30m west along soil contour line"	As above, till.			<5	0.8	<5	10
9308603	@ 60m west along soil contour line.	As above, till, light brown to dark brown red.			<5	0.7	<5	10
9308604	@ 94m west along soil contour survey	As above, till, medium orange brown.			<5	0.6	<5	14
9308605	@ 135m west along soil contour survey	As above, till, light to medium orange brown.			6	0.7	<5	17

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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					A ₁ ppb	A ₂ ppm	A ₃ ppm	A ₄ ppm
9308606	@ 206m west along soil contour survey.	As above, till, dark red-brown and medium orange. Rock sample #930260 taken @ bottom of sample hole.			<5	0.8	<5	14
9308607	@ 256m west along soil contour survey.	As above, till, dark red-brown.			<5	0.8	<5	6
9308608	@ 310m west along soil contour survey	As above, till, dark red-brown			<5	0.9	<5	12
9308609	@ 400m west along soil contour survey	till, medium gray brown			<5	0.9	<5	21
9308610	@ 458m west along soil contour survey	till, taken below ash layer, deep red-brown very fine grained sand			<5	0.8	<5	13
9308611	@ 501m west along soil contour survey	As above, till, red-brown to medium orange.			<5	0.8	<5	6
9308612	@ 560m west along soil contour survey	As above, till, medium orange			<5	0.8	<5	7

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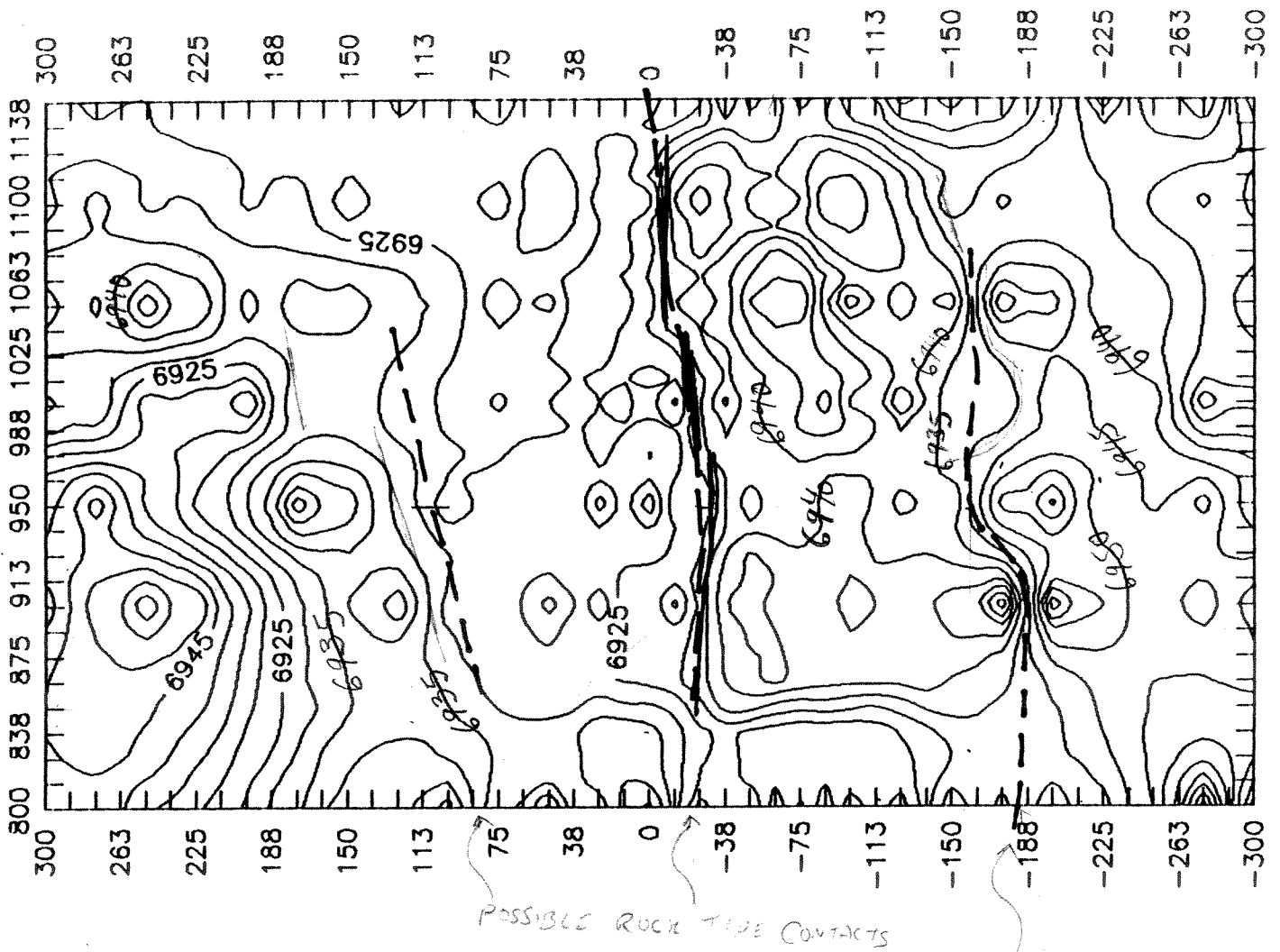
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Sample No.	Location	Description	Attitude	Width	Analytical Results			
					As ppm	As ppm	As ppm	As ppm
9308613	@ 703 m west along soil contour survey	As above, till, medium red-brown, fine sand			15	0.6	<5	5
9308614	@ 755m west along soil contour survey	till, overburden consists of moss, underlain by 3cm of volcanic ash, 3cm of medium orange to brown sand, then >15cm of clay. Sand was sampled.			<5	0.7	<5	<5
9308615	@ 800m west along soil contour survey	till, medium brown clay-bearing sand.			<5	0.9	<5	11
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APPENDIX B
GEOPHYSICAL RESULTS AND METHODS

SNOWCAP MAGNETOMETER
CONTOUR MAP



CONTOUR INTERVAL - 5 Gammas
LINE SPACING - 50m

POSSIBLE FAULT

TRACE OF MAGNETIC ANOMALIES
(POSSIBLE ROCK TYPE CHANGES
AND FAULTS)

- Note that lines 800 and 850 N were done separately.
from the remaining lines

Snowcap magnetometer data.

Line (N)	Station E(+) W(-)	Gammas
900	0	6929
900	5	6930
900	10	6918
900	15	6916
900	20	6926
900	25	6932
900	30	6937
900	35	6939
900	40	6951
900	45	6955
900	50	6948
900	55	6948
900	60	6944
900	65	6940
900	70	6940
900	75	6944
900	80	6947
900	85	6946
900	90	6940
900	95	6936
900	100	6937
900	125	6942
900	150	6947
900	175	6963
900	200	6902
900	225	6915
900	250	6925
900	275	6928
900	300	6917
900	-5	6935
900	-10	6935
900	-15	6923
900	-20	6917
900	-25	6916
900	-30	6918
900	-35	6929
900	-40	6922
900	-45	6926
900	-50	6932
900	-75	6922
900	-100	6922
900	-125	6901
900	-150	6910
900	-175	6921
900	-200	6936
900	-225	6955
900	-250	6964
900	-275	6953
900	-300	6937
950	0	6912
950	5	6916

950	10	6927
950	15	6934
950	20	6933
950	25	6925
950	30	6925
950	35	6931
950	40	6939
950	45	6942
950	50	6943
950	55	6944
950	60	6942
950	65	6930
950	70	6937
950	75	6939
950	80	6938
950	85	6942
950	90	6939
950	95	6942
950	100	6944
950	125	6933
950	150	6939
950	175	6913
950	200	6904
950	225	6925
950	250	6926
950	275	6918
950	300	6934
950	-5	6914
950	-10	6917
950	-15	6928
950	-20	6924
950	-25	6932
950	-30	6931
950	-35	6917
950	-40	6922
950	-45	6920
950	-50	6920
950	-75	6923
950	-100	6929
950	-125	6917
950	-150	6902
950	-175	6892
950	-200	6915
950	-225	6924
950	-250	6934
950	-275	6953
950	-300	6938
1000	0	6927
1000	5	6919
1000	10	6919
1000	15	6917
1000	20	6918
1000	25	6935
1000	30	6958
1000	35	6956
1000	40	6938

1000	45	6934
1000	50	6936
1000	55	6938
1000	60	6934
1000	65	6931
1000	70	6932
1000	75	6930
1000	80	6929
1000	85	6920
1000	90	6922
1000	95	6931
1000	100	6936
1000	125	6950
1000	150	6931
1000	175	6935
1000	200	6922
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1000	250	6927
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1100	100	6954
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1100	150	6925

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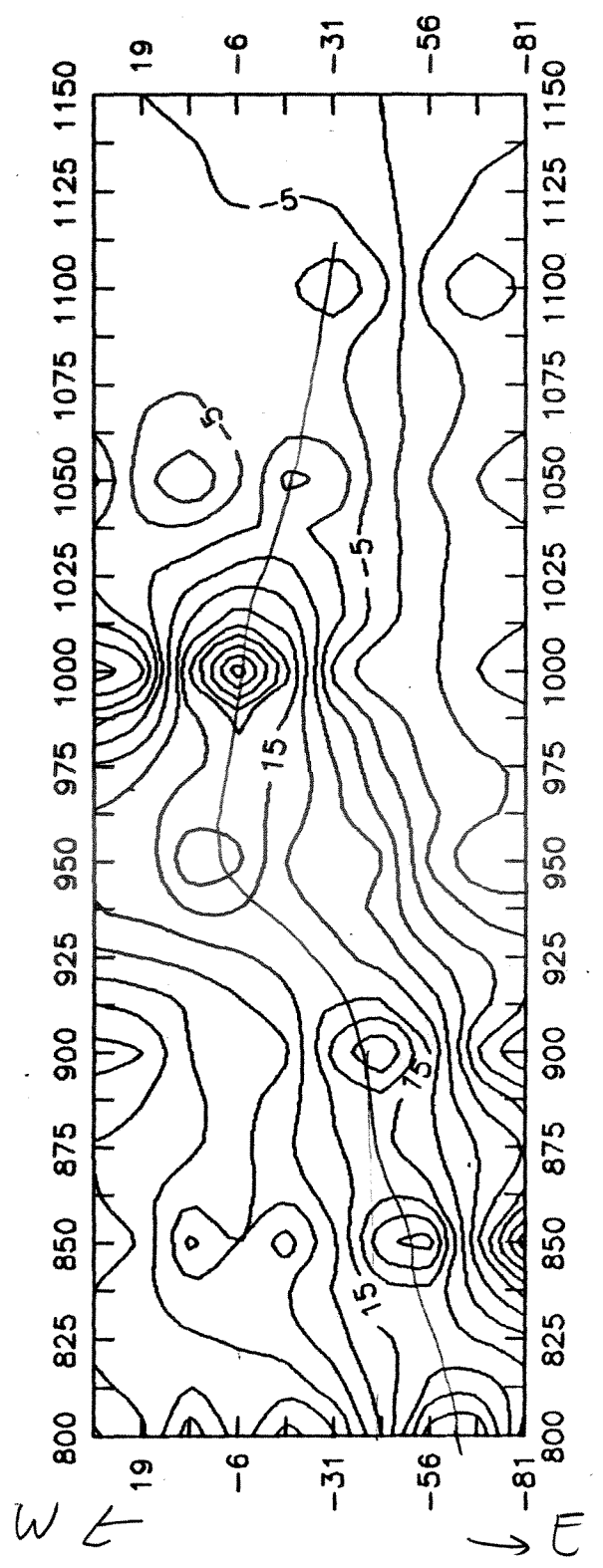
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850	15	6934
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2-350 →

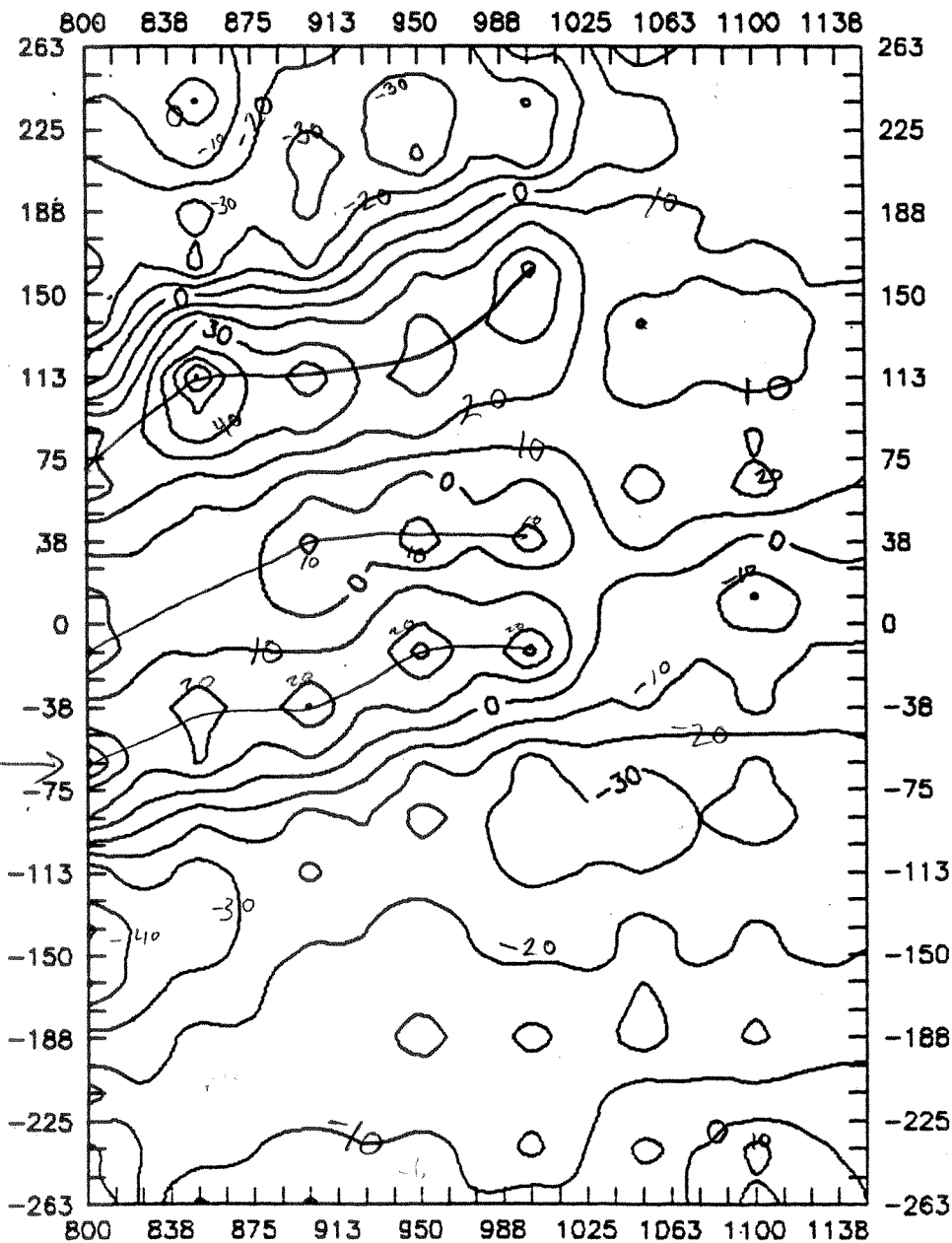
SNOWCAP
VLF
FRASER FILTER
FROM
12.5m Spacing from
50W-100E
CONTOUR INTERVAL - 5

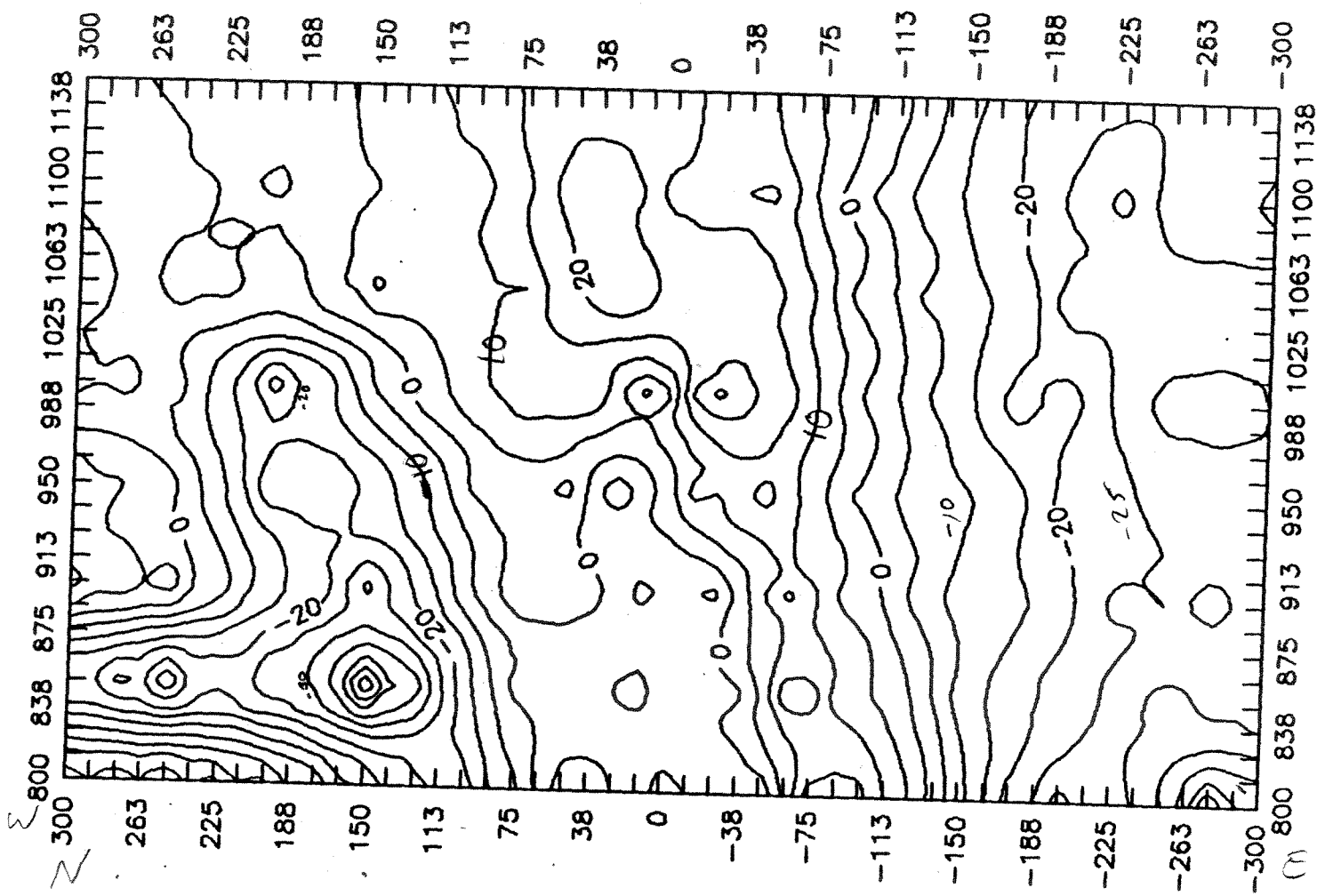


NE
→

SNOWCAP
VLF
FRASER FILTER
FOR
25m Spacing
Entire Grid
Contour Interval -10

Corresponds with
125m RF MAP →





SNOWCAP

VLF IN PHASE

CONTOUR INTERVAL - 5

50 m lines 800N - 1150N

Stations 25m From 300W - 50W
100E - 300E

Stations 12.5m From 50W - 100E

Tx = Seattle

Readings taken facing west.

VLF data for snow cap.
 Transmitting station is Seattle.
 Readings taken while facing west.
 Slope measured facing west.

Line (N)	Station		IN	OUT	Slope
	E(+)	W(-)			
800	300		-42	-10	-30
800	275		-55	-14	-24
800	250		-34	-8	-21
800	225		-25	-10	-19
800	200		-32	-14	-16
800	175		-22	-18	-10
800	150		-8	-17	-6
800	125		5	-17	-8
800	100		17	-14	1
800	87.5		19	-12	0
800	75		17	-10	-4
800	62.5		6	-9	-7
800	50		-5	-11	-5
800	37.5		-5	-7	2
800	25		-4	-4	8
800	12.5		0	-1	11
800	0		3	1	22
800	-12.5		-5	-3	30
800	-25		0	-1	12
800	-37.5		4	0	0
800	-50		2	-4	-7
800	-75		-12	-7	-28
800	-100		-24	-9	-10
800	-125		-19	-8	0
800	-150		-11	-4	8
800	-175		-1	-3	4
800	-200		6	-5	15
800	-225		11	-4	16
800	-250		14	0	15
800	-275		13	2	16
800	-300		13	1	17
850	300		-27	-2	-16
850	275		-29	-6	-15
850	250		-32	-8	-26
850	225		-26	-10	-15
850	200		-21	-8	-4
850	175		-19	-15	-10
850	150		-12	-17	-20
850	125		0	-19	-12
850	100		6	-19	-10
850	87.5		8	-19	-9
850	75		18	-16	-6
850	62.5		19	-12	-4
850	50		6	-10	-4
850	37.5		-1	-8	-3
850	25		-3	-4	6
850	12.5		-1	1	5
850	0		-1	0	10

850	-12.5	-8	-2	18
850	-25	-5	1	8
850	-37.5	0	2	0
850	-50	-3	-2	-2
850	-75	-4	-3	-8
850	-100	-17	-8	-25
850	-125	-38	-18	-8
850	-150	-54	-19	5
850	-175	-31	-12	3
850	-200	-28	-10	10
850	-225	-21	-10	8
850	-250	-34	-13	10
850	-275	-26	-8	10
850	-300	-20	-8	12
900	300	-26	-4	-17
900	275	-24	-4	-23
900	250	-25	-6	-18
900	225	-26	-8	-19
900	200	-18	-8	-22
900	175	-13	-8	-14
900	150	-13	-12	-15
900	125	-6	-15	-12
900	100	2	-18	-20
900	87.5	5	-17	-10
900	75	11	-17	-7
900	62.5	16	-13	-5
900	50	10	-10	-12
900	37.5	2	-10	-12
900	25	-6	-8	-3
900	12.5	-4	-3	1
900	0	-4	0	14
900	-12.5	-6	-1	25
900	-25	-2	-4	5
900	-37.5	2	0	0
900	-50	2	-1	0
900	-75	4	-1	-5
900	-100	-6	-8	-18
900	-125	-19	-8	-17
900	-150	-31	-10	-10
900	-175	-16	-2	0
900	-200	-12	-2	3
900	-225	-2	0	10
900	-250	8	2	12
900	-275	8	-2	10
900	-300	12	-2	16
950	300	-29	-9	-17
950	275	-27	-5	-22
950	250	-26	-4	-19
950	225	-24	-5	-19
950	200	-22	-9	-14
950	175	-13	-7	-9
950	150	-9	-8	-15
950	125	-9	-14	-14
950	100	-1	-18	-10
950	87.5	1	-18	-15
950	75	8	-20	-12

950	62.5	11	-18	-8
950	50	17	-13	-15
950	37.5	13	-10	-26
950	25	10	-5	-8
950	12.5	11	0	5
950	0	2	-2	8
950	-12.5	-2	-4	15
950	-25	-9	-4	17
950	-37.5	-2	0	3
950	-50	6	0	9
950	-75	5	-2	5
950	-100	0	-6	-12
950	-125	-12	-6	-10
950	-150	-19	-6	-12
950	-175	-25	-5	-2
950	-200	-25	-5	0
950	-225	-9	2	-2
950	-250	1	3	6
950	-275	5	1	10
950	-300	8	0	12
1000	300	-30	-7	-15
1000	275	-33	-5	-22
1000	250	-33	-4	-24
1000	225	-26	-4	-8
1000	200	-17	-2	-10
1000	175	-23	-10	-11
1000	150	-14	-10	-14
1000	125	-9	-14	-13
1000	100	-1	-17	-26
1000	87.5	4	-18	-31
1000	75	10	-18	-22
1000	62.5	16	-17	-26
1000	50	18	-12	-15
1000	37.5	22	-6	-12
1000	25	26	3	30
1000	12.5	21	2	36
1000	0	5	-2	-9
1000	-12.5	-1	-4	12
1000	-25	6	2	21
1000	-37.5	14	2	12
1000	-50	14	-4	12
1000	-75	13	-7	-5
1000	-100	9	-7	2
1000	-125	3	-4	2
1000	-150	-5	-4	-2
1000	-175	-18	-4	-18
1000	-200	-27	-7	-4
1000	-225	-13	-4	5
1000	-250	-3	0	0
1000	-275	-6	0	5
1000	-300	-6	-2	1
1050	300	-27	-5	-18
1050	275	-27	-4	-15
1050	250	-25	-1	-18
1050	225	-25	-2	-7
1050	200	-29	-6	-7

1100	-300	4	-7	2
1150	300	-12	-2	-10
1150	275	-11	0	-17
1150	250	-17	-3	-22
1150	225	-22	-4	-9
1150	200	-18	-2	9
1150	175	-25	-9	-5
1150	150	-22	-10	-15
1150	125	-16	-16	-25
1150	100	-5	-17	-50
1150	87.5	0	-17	-52
1150	75	7	-16	-50
1150	62.5	9	-16	-40
1150	50	11	-13	-5
1150	37.5	10	-6	0
1150	25	10	0	0
1150	12.5	4	-2	6
1150	0	5	-2	24
1150	-12.5	16	4	32
1150	-25	29	6	30
1150	-37.5	36	4	33
1150	-50	37	4	25
1150	-75	23	-4	17
1150	-100	10	-6	15
1150	-125	12	-4	17
1150	-150	8	1	9
1150	-175	0	-1	8
1150	-200	2	-1	5
1150	-225	2	-1	10
1150	-250	9	-2	14
1150	-275	10	0	15
1150	-300	3	-2	12

1050	175	-15		
1050	150	-14	-4	-9
1050	125	-10	-8	-10
1050	100	-3	-14	-24
1050	87.5	1	-17	-35
1050	75	9	-19	-41
1050	62.5	13	-17	-30
1050	50	17	-15	-26
1050	37.5	20	-11	-16
1050	25	18	-8	-8
1050	12.5	15	-2	-2
1050	0	17	-1	10
1050	-12.5	22	5	34
1050	-25	25	8	38
1050	-37.5	22	8	35
1050	-50	19	2	20
1050	-75	10	-2	2
1050	-100	8	-8	-3
1050	-125	6	-8	0
1050	-150	11	-4	4
1050	-175	4	0	10
1050	-200	-4	-4	5
1050	-225	2	-8	-16
1050	-250	4	-12	0
1050	-275	-4	-6	13
1050	-300	-9	-7	1
1100	300	-18	-6	11
1100	275	-23	-3	-18
1100	250	-22	-3	-17
1100	225	-32	-2	-22
1100	200	-26	-7	9
1100	175	-20	-4	-9
1100	150	-16	-4	-10
1100	125	-12	-7	-12
1100	100	-5	-12	-24
1100	87.5	-1	-16	-62
1100	75	3	-17	-65
1100	62.5	10	-19	-31
1100	50	16	-18	-28
1100	37.5	15	-12	-10
1100	25	14	-6	-5
1100	12.5	13	-3	0
1100	0	12	-2	5
1100	-12.5	19	0	32
1100	-25	23	3	35
1100	-37.5	23	2	19
1100	-50	24	-1	9
1100	-75	14	-2	6
1100	-100	7	-6	22
1100	-125	10	-7	6
1100	-150	5	-2	12
1100	-175	4	-4	14
1100	-200	-1	-4	1
1100	-225	1	-6	-4
1100	-250	4	-9	12
1100	-275	6	-8	10
			-7	12

VLF data for grid #2 on snowcap.

Line	Station	IN	OUT	Slope
1	0	-16	15	0
1	25	-17	16	0
1	50	-15	14	0
1	75	-26	17	0
1	100	-37	8	0
1	125	-56	3	0
1	150	-45	-4	-43
1	175	-46	-6	5
1	200	-51	-6	-5
1	225	-36	-3	-12
1	250	-35	-8	-19
1	275	-33	-12	-20
1	300	-30	-17	-21
1	325	-32	-20	-27

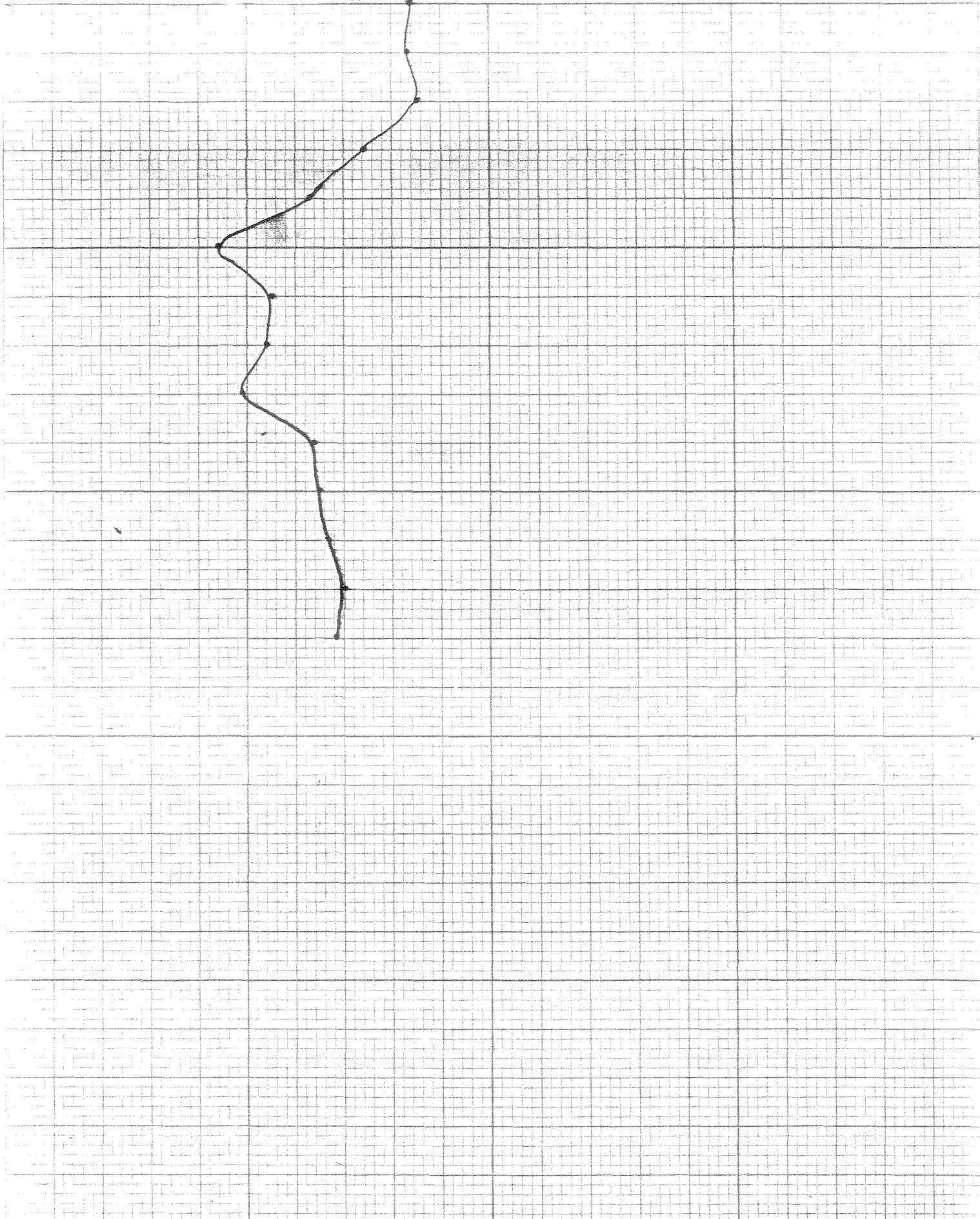
GRID #2
LINE @ 082°

54

at

o

at



L 10

30
20
10
0
-10
-20
-30

3000

2000

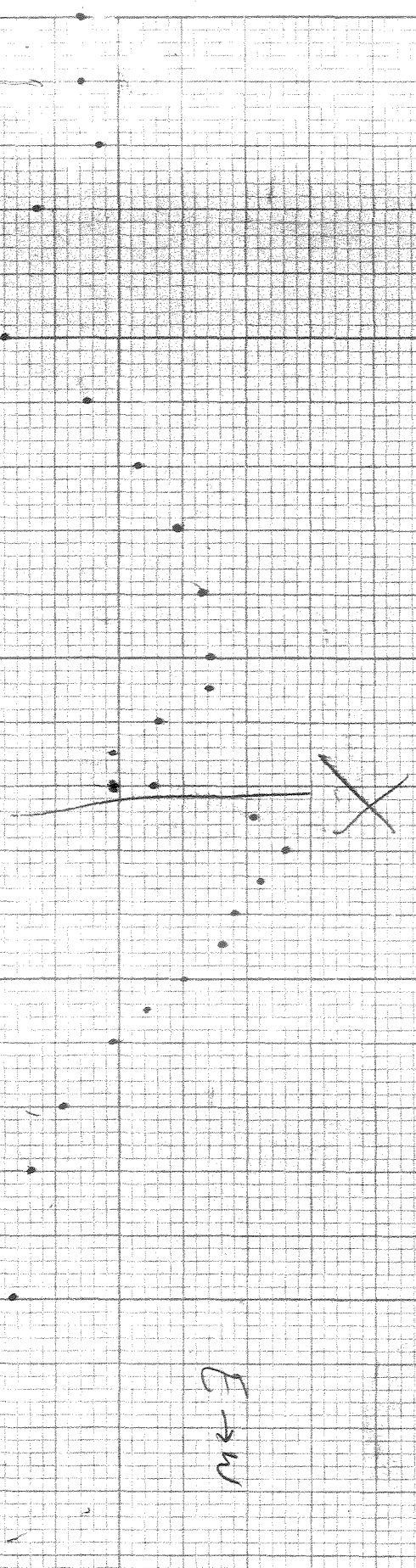
1000

0

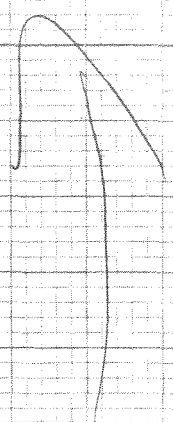
1000

2000

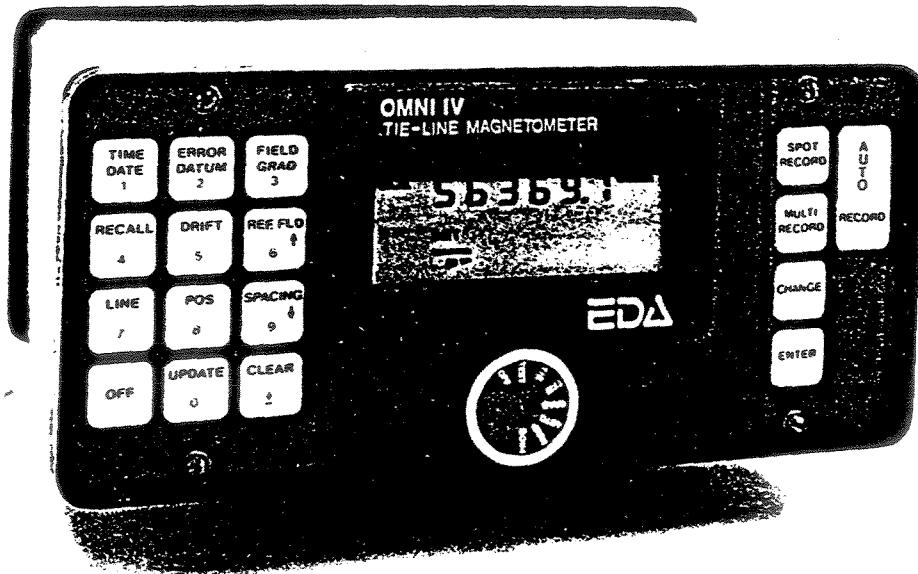
3000



E → W



OMNI IV "Tie-Line" Magnetometer



Major Benefits

- Four Magnetometers in One
- Self Correcting for Diurnal Variations
- Reduced Instrumentation Requirements
- 25% Weight Reduction
- User Friendly Keypad Operation
- Universal Computer Interface
- Comprehensive Software Packages

OMNI IV "Tie-Line" Magnetometer

The OMNI IV microprocessor-based "Tie-Line" Magnetometer incorporates a number of features designed to facilitate the storage, reduction and presentation of total field magnetic data.

Major Benefits

• Four Magnetometers in One

The OMNI IV has been designed to operate in four different operating modes:

1. As a self correcting or tie-line magnetometer (See page 3)
2. As a portable field magnetometer (See page 4)
3. As a recording base station magnetometer (See page 5)
4. As a true simultaneous gradiometer. (See page 6)

The standard OMNI IV incorporates the portable field magnetometer with "tie-line" capability, and the system may be upgraded to include the base station and/or the gradient configuration.

All of the data collected in any one of these four operating modes is stored and protected in a solid state memory.

• Self Correcting for Diurnal Variations

When used in the "tie-line" mode, the OMNI IV automatically corrects itself for variations in the earth's magnetic field. By tying back into one tie-point or tie-line(s) on the grid over the day or over the duration of the survey, the OMNI IV automatically calculates and applies the drift measured to the data stored. Data is corrected using the linear interpolation method.

• Reduced Instrumentation Requirements

Only one OMNI IV is needed to measure, store total field and gradient data and automatically correct the total field magnetic data, when in the tie-line mode.

The flexibility of the OMNI IV allows the user to purchase one console and through the use of different sensors or software create their choice of four different magnetometers.

• 25% Weight Reduction

The OMNI IV has been designed so that it is 25% lighter than EDA's existing PPM-350/375 OMNIMAG units for a total weight of 4 kg. This weight reduction has been achieved by the design of a smaller console and by the use of a lighter rechargeable or disposable power source.

• User Friendly Keypad Operation

The OMNI IV incorporates two keypads; one for programming the unit for time and grid co-ordinates and the other for the recording of data. Once the OMNI IV has been programmed for the day's survey, the operator need only use the recording keypad for data storage. Recording of data is accomplished by pressing only 2 recording keys sequentially. A "Clear" data key has been incorporated to edit the previous reading stored in memory.

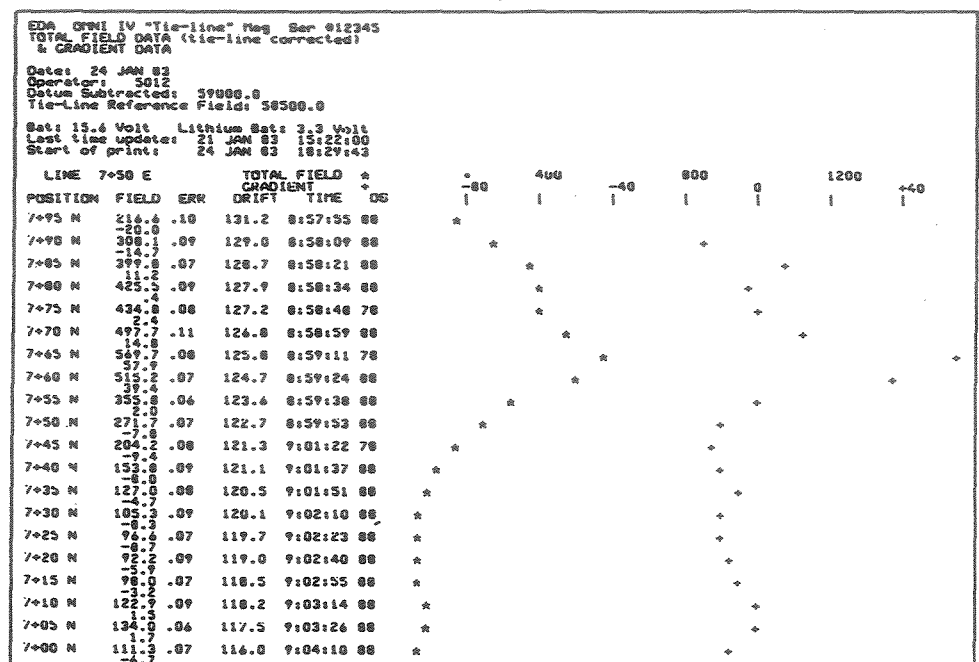
• Universal Computer Interface

A simple, low cost, communication interface between the OMNI IV or OMNIMAG Series and any microcomputer is now available. This communication interface provides the necessary handshake requirements for the OMNI IV to dump directly into any microcomputer with ASCII code, into any standard parallel printer, or into many available serial magnetic tape recorders.

• Comprehensive Software Programs

HP 85 and CP/M software packages for most computers such as IBM PC, APPLE, KAYPRO, OSBORNE, etc. are available to enable the user to edit the data, obtain line profiles and create plot files.

Many filtering programs are offered for further data analysis such as the Fast Fourier Transform, the Frequency Domain Filters or the Upward-Downward Continuation. Additional programs are also available to transfer the data from microcomputers to mainframes.



Profile Plot of Total Field and Gradient Data.

As a Self Correcting, "Tie-Line" Magnetometer...

The OMNI IV is able to store "looping" or "tie-line" data. This data is stored in a separate memory at the beginning of each survey. Total field readings are then subsequently stored in a second memory along with the field readings of the tie-points. At the end of each survey day, these two memories are merged to automatically correct the total field data for diurnal variations.

Features

The OMNI IV in the "tie-line" mode can:

- Store "looping" or "tie-line" data 3 ways:
 - using one "looping" base point,
 - using one "tie-line" comprised of a number of tie-points, or
 - using multiple "tie-lines".
- Store up to 100 tie-points in one survey area or divide these points into extensions of survey areas as needed.
- Store tie-points or tie-lines for the duration of the survey.
- Calculate the drift between established tie-points, to readily see variations in the earth's magnetic field.

Key Benefits

Eliminates Manual Correction of Data

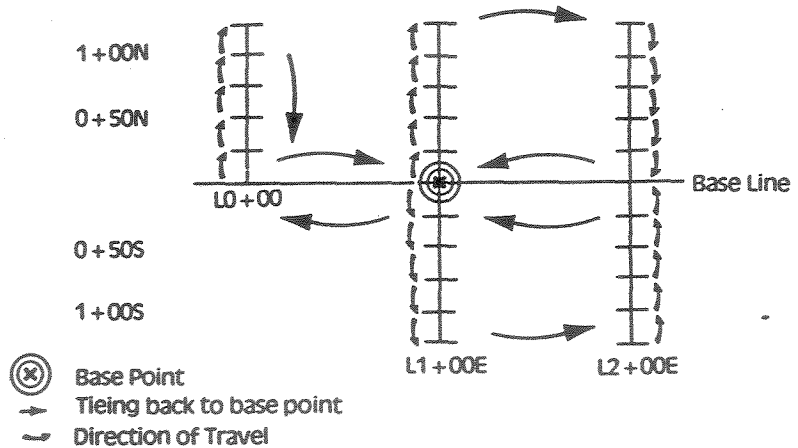
Diurnal corrections, using the tie-line method, can be done automatically by the OMNI IV, eliminating hours of manual and tedious calculations. Corrected data can then be directly transferred to a computer for further data processing.

Flexibility of "Tie-Line"

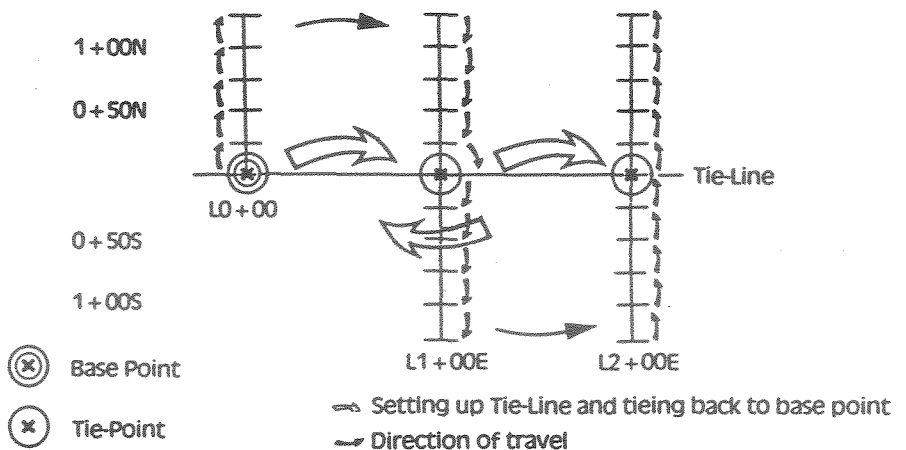
The OMNI IV "tie-line" system offers the operator the flexibility of choosing the most appropriate tie-line method best suited for the survey, depending upon the size and character of the grid. The operator can choose from:

- a single base point,
- a single tie-line,
- multiple tie-lines, or
- a random scattering of tie-points.

"Looping" Method



"Tie-Line" Method



Reduced Instrumentation Requirements

The self-correcting "tie-line" feature of the OMNI IV can remove base station requirements from some surveys.

Tie-Line Capability in Gradient Mode

The "tie line" capability is also applicable when used as a gradiometer. The operator can therefore obtain corrected total field data without requiring a base station magnetometer.

Programmable Datum

The OMNI IV can be programmed to automatically remove a designated datum from field data. Removal of this coarse, background value facilitates plotting and interpretation of data.

Automatic Drift Calculations

The OMNI IV can automatically calculate the desired diurnal drift measured between consecutive tie-point readings.

Data Recall

"Tie-line" data can be recalled, even if stored on different days.

OMNI IV "Tie-Line" Magnetometer

As a Portable Field Unit...

The OMNI IV is a portable proton precession magnetometer that measures and stores in memory the earth's magnetic field at the touch of a key. It identifies and stores the location, time of each measurement, computes the statistical error of the reading and stores the decay and strength of the signal being measured.



Features

- Packaged in a compact, lightweight and rugged housing, the OMNI IV measures and stores the following set of information:
 - total field magnitude
 - time of measurement
 - grid co-ordinates
 - direction of travel
 - statistical error of readings
 - signal strength and rate of decay
- Users have a choice of three data storage modes:
 - spot record
 - multi record
 - auto record
- Data stored in memory is completely protected by a lithium battery.
- Each reading is automatically assigned a record number which can also be used to identify readings measured off the grid.
- More than one reading can be taken at one point without updating the current station number.
- Characters shown on the LCD display

Key Benefits

Increased Productivity

Survey productivity is significantly increased with the OMNI IV because:

- a measurement can be read and stored in only 3 seconds.
- data is highly repeatable. A second measurement is usually not required.
- the statistical error is calculated for each measurement providing an indication of whether an additional reading may be required.
- the OMNI IV is up to 25% lighter and smaller.

This permits the operator to cover more ground and gather more data than would be otherwise possible.

Simplified Fieldwork

The OMNI IV makes surveys easier to conduct because:

- the need to write down field data is eliminated. Time, field measurement, grid co-ordinates, etc. are simultaneously stored when any one of the three record keys are pressed.
- the operator has the ability to clear the unwanted last reading.
- the difference between the current reading and the previous one is calculated automatically.
- the coarse magnetic field value or datum can be removed from the field data to simplify plotting of the field results.
- diurnal corrections are automatically calculated.

System flexibility offers the following choices:

- if the OMNI IV is used as a field magnetometer or as a gradiometer, the total field data can be corrected by itself using the "tie-line" or "looping" capability.
- if the OMNI IV is used as a self-recording base station, it will correct the total field data in:
 - a. another OMNI IV, used as a field magnetometer
 - b. another OMNI IV, used as a gradiometer
 - c. an OMNIMAG PPM-350
 - d. an OMNIMAG PPM-375, used as a field magnetometer
 - e. an OMNIMAG PPM-500 Vertical Gradiometer

Unparalleled Repeatability of Data

The OMNI IV provides users with unparalleled data repeatability. This is a result of four leading-edge design features that eliminate the need for taking multiple readings:

- Patented Signal Processing Technique
- Constant Energy Polarization that maintains equal energy to the sensor
- Processing sensitivity to ± 0.02 gamma
- Automatic Fine Tuning which uses the previous reading as the base for the next

Other Benefits

• Error Analysis

This unique feature is a great time saver because the calculation of the statistical error of each reading lets the operator make an on-the-spot decision whether that reading should be stored or not.

• Higher Gradient Tolerance

Higher tolerance to local gradients of up to 6000 gammas per meter (field proven), is possible due to a patented signal processing method and to a miniature sensor design utilizing a highly optimized sensor geometry.

• Complete Data Protection

Field data stored in memory is totally protected for a number of years by the lithium backup battery. This battery also provides power to the real-time clock.

• Data Recall

Readings can be recalled either by record number or in sequence.

• Decimal Spacing

A decimal digit is provided for intermediate station intervals of 12.5 meters.

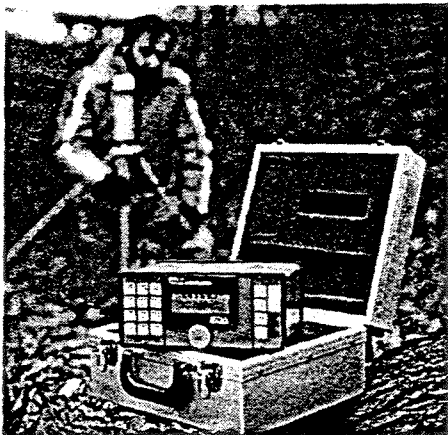
• Power Supply Versatility

Users can choose from:

- non-magnetic rechargeable sealed lead-acid battery cart-ridge or belt
- nickel cadmium (NiCad) battery cartridge or belt
- disposable alkaline battery cartridge or belt

3. As a Base Station Magnetometer...

The OMNI IV in the base station mode effectively measures and stores in its memory the daily fluctuations of the earth's magnetic field. The OMNI IV will automatically correct total field data of other OMNI IV or OMNIMAG Series units in just a few minutes.



Features

The OMNI IV in the base station mode can:

- Automatically correct magnetic field data for both diurnal variations and reference field values.
- Record the magnetic field activity in the following format:
 - time of measurement
 - magnitude of total field
 - difference from the reference field value
 - difference from the previous reading
 - sequential record number

- Store up to 5,000 sets of readings, the equivalent to approximately 14 hours of continuous unattended monitoring at a 10 second sampling interval. Cycling time between 5 seconds and 60 minutes in 1 second increments can be programmed by the operator.
- Simultaneously outputs data in a digital or ASCII format to a choice of data collection units at the same time as it is being stored in memory.

Key Benefits

Automatic Diurnal Corrections

The OMNI IV in the base station mode will automatically correct total field data stored in:

- another OMNI IV, used as a field magnetometer or as a gradiometer
 - a PPM-350 Total Field Magnetometer
 - a PPM-375 Portable/Base Station
 - a PPM-500 Vertical Gradiometer
- This is ideal where close, detailed monitoring of the earth's magnetic field is required.

Programmable Reference Field

The reference field can be programmed by the operator. The OMNI IV then calculates automatically the drift in the magnetic field for every reading. If at the end of the first survey day the proper reference field has not been entered, the operator can re-select a new one and the drift can be automatically re-calculated.

Automatic Drift Calculation

The OMNI IV calculates automatically the difference between each reading and its programmed reference field. This can be presented in either digital and/or profile plot format. It can also be simultaneously output to a compatible printer for visual verification of the field's activity.

Calculates Differential Field Variations

The OMNI IV also calculates to 0.1 gamma, the difference between the current reading and the previous one. This assists the operator in ascertaining the degree of activity that is occurring i.e. magnetic storm or active conditions.

Programmable Cycling Interval

The OMNI IV can be programmed to cycle at any interval, in one second increments, from 5 seconds to 60 minutes.

Other Benefits

- Stores & Prints Data Simultaneously
 - The OMNI IV can record and print out data simultaneously. Data is retained in memory.
- Internal Real Time Clock
 - Real time clocks can be synchronized to the nearest second when using the OMNI IV with any other OMNI IV or OMNIMAG Unit.

```
EDA OMNI IV "Tie-line" Mag Ser #14015
TOTAL FIELD DATA (Uncorrected)
Date: 4 AUG 83
Operator: 5012
Datum Subtracted: 0.0
Bat: 15.6 Volt Lithium Bat: 3.3 Volt
Last time update: 1 AUG 83 15:22:00
Start of print: 4 AUG 83 18:29:43
```

LINE	54+00 N	FIELD	ERR	DATE	4 AUG 83	DRIFT	TIME	#1
31+00	E	57508.4	-10	0.0	15:00:35	88		
31+50	E	57506.3	-08	0.0	15:00:43	88		
32+00	E	57505.0	-08	0.0	15:00:47	88		
32+50	E	57501.9	-10	0.0	15:00:51	88		
33+00	E	57504.1	-08	0.0	15:00:56	88		
33+50	E	57503.1	-07	0.0	15:01:00	88		
34+00	E	57511.1	-07	0.0	15:01:05	88		
34+50	E	57514.9	-09	0.0	15:01:09	88		
35+00	E	57511.1	-08	0.0	15:01:17	88		

Total Field Data (Uncorrected)

```
EDA OMNI IV "Tie-line" Mag Ser #31005
BASE STATION DATA
Date: 4 AUG 83
Operator: 4007
Reference Field: 57500.0
Line 20+00 N Position 30+25 E
Bat: 12.1 Volt Lithium Bat: 3.2 Volt
Last time update: 1 AUG 83 15:22:00
Start of print: 4 AUG 83 18:59:53
```

TIME	FIELD	CHANGE	DRIFT	RECORD
15:00:33	57517.8	0.4	17.8	1
15:00:38	57508.6	-9.2	8.6	2
15:00:43	57511.7	-3.1	11.7	3
15:00:48	57510.5	-1.2	10.5	4
15:00:53	57518.0	7.5	18.0	5
15:00:58	57525.9	7.9	25.9	6
15:01:03	57514.9	-11.1	14.9	7
15:01:08	57508.4	-6.4	8.4	8
15:01:13	57512.9	-4.5	12.9	9
15:01:18	57512.7	-0.2	12.7	10

Base Station Data

```
EDA OMNI IV "Tie-line" Mag Ser #14015
TOTAL FIELD DATA (base stn. corrected)
Date: 4 AUG 83
Operator: 5012
Datum Subtracted: 57000.0
Bat: 15.6 Volt Lithium Bat: 3.3 Volt
Last time update: 1 AUG 83 15:22:00
Start of print: 4 AUG 83 18:39:53
```

LINE	54+00 N	FIELD	ERR	DATE	4 AUG 83	DRIFT	TIME	#1
31+00	E	494.3	-10	14.1	15:00:35	88		
31+50	E	494.3	-08	11.7	15:00:43	88		
32+00	E	494.3	-08	10.7	15:00:47	88		
32+50	E	486.9	-10	15.0	15:00:51	88		
33+00	E	481.4	-08	22.7	15:00:56	88		
33+50	E	481.9	-07	21.3	15:01:00	88		
34+00	E	498.9	-07	12.3	15:01:05	88		
34+50	E	505.4	-09	9.3	15:01:09	88		
35+00	E	498.4	-08	12.7	15:01:17	88		

Corrected Total Field Data



Specifications

Dynamic Range	18,000 to 110,000 gammas. Roll-over display feature suppresses first significant digit upon exceeding 100,000 gammas.
Tuning Method	Tuning value is calculated accurately utilizing a specially developed tuning algorithm
Automatic Fine Tuning	± 15% relative to ambient field strength of last stored value
Display Resolution	0.1 gamma
Processing Sensitivity	± 0.02 gamma
Statistical Error Resolution	0.01 gamma
Absolute Accuracy	± 1 gamma at 50,000 gammas at 23°C ± 2 gamma over total temperature range
Standard Memory Capacity	
Total Field or Gradient	1,300 data blocks or sets of readings
Tie-Line Points	100 data blocks or sets of readings
Base Station	5,500 data blocks or sets of readings
Display	Custom-designed, ruggedized liquid crystal display with an operating temperature range from -40°C to +55°C. The display contains six numeric digits, decimal point, battery status monitor, signal decay rate and signal amplitude monitor and function descriptors.
RS 232 Serial I/O Interface	2400 baud, 8 data bits, 2 stop bits, no parity
Gradient Tolerance	6,000 gammas per meter (field proven)
Test Mode	A. Diagnostic testing (data and programmable memory) B. Self Test (hardware)
Sensor	Optimized miniature design. Magnetic cleanliness is consistent with the specified absolute accuracy.
Gradient Sensors	0.5 meter sensor separation (standard), normalized to gammas/meter. Optional 1.0 meter sensor separation available. Horizontal sensors optional.
Sensor Cable	Remains flexible in temperature range specified, includes strain-relief connector
Cycling Time (Base Station Mode)	Programmable from 5 seconds up to 60 minutes in 1 second increments
Operating Environmental Range	-40°C to +55°C; 0-100% relative humidity; weatherproof
Power Supply	Non-magnetic rechargeable sealed lead-acid battery cartridge or belt; disposable alkaline battery belt; or 12V DC power source option for base station operation.
Battery Cartridge/Belt Life	2,000 to 5,000 readings, for sealed lead acid power supply, depending upon ambient temperature and rate of readings
Weights and Dimensions	
Instrument Console Only	2.8 kg, 238 x 150 x 250mm
Alkaline Battery Belt	1.2 kg, 540 x 100 x 40mm
Lead-Acid Battery Cartridge	1.8 kg, 235 x 105 x 90mm
Lead-Acid Battery Belt	1.8 kg, 540 x 100 x 40mm
Sensor	1.2 kg, 56mm diameter x 200mm
Gradient Sensor (0.5 m separation - standard)	2.1 kg, 56mm diameter x 790mm
Gradient Sensor (1.0 m separation - optional)	2.2 kg, 56mm diameter x 1300mm
Standard System Complement	Instrument console; sensor; 3-meter cable, aluminum sectional sensor staff, power supply, harness assembly, operations manual.

EDA Instruments Inc.
4 Thorndiffe Park Drive
Toronto, Ontario
Canada M4H 1H1
Telex: 06 23222 EDA TOR
Cable: EDAINSTRMTS TORONTO
Telephone: (416) 425 7800
Fax: (416) 425 8135

In USA,
EDA Instruments Inc.
5151 Ward Road
Wheat Ridge, Colorado
U.S.A. 80033
Telephone: (303) 422 9112

Data Output Options

The OMNI IV universal communications interface enables the user to output and analyze data through a number of options and formats.

Any Computer with RS 232C

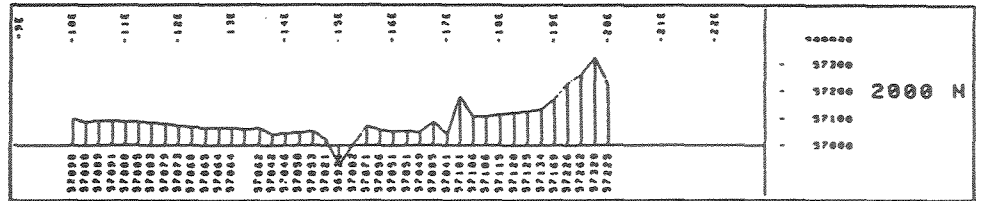
The OMNI IV can transfer uncorrected or corrected field data into any computer with an RS 232C port through the EDA universal communications interface. Computers with collection packages including either "X-ON, X-OFF" or "ENQ/ACK" communication protocol formats are also compatible.

Data transfer from the field to the office is also possible through the use of an optional modem interface.

Comprehensive Software Packages

Once the OMNI IV data has been transferred to a microcomputer, it can be further analyzed through a number of available software packages:

1. a CP/M software package adaptable to many microcomputers such as the IBM PC, APPLE, KAYPRO, TRS, OSBORNE, etc... This package enables the user to edit the data, obtain true line profiles and create plot files.
2. The above CP/M software package is also available plus the added capability of merging the base station data of GEOMETRICS G856 with the OMNI IV to calculate diurnal variations. This enables users to increase the flexibility of their existing magnetometers.
3. An HP 85 software package that edits the OMNI IV data, provides true line profiles and creates plot files. The package also permits the use of the G856 together with the OMNI IV to calculate for diurnal variations.
4. A Fast Fourier Transform program is available where space or time domain data is transformed to the frequency domain. From the examination of a power spectrum, filters may be customized to each data set.



Line Profile From HP-85

5. A Frequency Domain Filter program is also available. The multi pass filter program allows user control of the turn on/off frequencies and filter decay rates. These filters are useful for performing regional/residual separation or filtering of noise from data.
6. The Upward-Downward Continuation program computes a 2-dimensional upward or downward continuation transfer function and applies the operator to the input array in the wave-number domain.
7. A Micro-to-Mainframe Computer program enables the user to transfer the data from his field computer to a main frame where additional computation will be done.

Profile Plot Outputs

The OMNI IV can plot data as a profile through a printer. The operator can:

- select and program any gamma scale best suited for data presentation
- output the digital or plot formats simultaneously or separately
- choose a 40, 80, or 132 character printer paper width
- plot both the gradient and corrected total field data simultaneously
- transfer data plots to a printer as it is being stored in memory. This is ideal in base station applications.

Many Digital Recorder Options

The OMNI IV is compatible with many digital recorders with serial interface, such as MFE 2500, through its communications interface.

EDA's digital recorder, the DCU-200, can store 21,000 readings and has a "read-after-write" capability.

Variety of Printer Options

The OMNI IV can transfer data into any printer with a standard parallel (Centronics) interface, such as the Epson printer, through its communications interface.

The OMNI IV data can also be transmitted through two EDA printers:

- the DCU-040, which is a small 40 character AC only thermal printer.
- the DCU-400, which is a ruggedized 40 character thermal printer that is used either with its internal rechargeable batteries, a 12 volt DC power supply option or an AC power source.

With the external 12 volt DC power supply option linked directly to the DCU-400, data transfer and charging of internal batteries can be done simultaneously. There is now no dependence on a generator or AC power source for data transfer or battery charging. This is ideal where AC power is not available or where a back-up power source is required.

Data Output Capabilities

The OMNI IV outputs data in a choice of formats, depending upon the operating mode:

- corrected total field data
- uncorrected total field data
- base station data
- gradient field data
- corrected tie-line data
- tie-line data

Grid co-ordinates of the data can be output with their designated compass bearing, using N, S, E, W descriptors.

Direction of travel along each grid line is programmable and will be reflected with or without a minus sign (-). i.e. travelling south or west is negative (-), travelling north or east is positive.

OMNI IV "Tie-Line" Magnetometer

4. As a True Gradiometer...

The OMNI IV provides the operator with an accurate means of measuring both the total field and the gradient of the total field. It reads and stores the measurements of both sensors simultaneously to calculate the true gradient measurement. The standard 0.5 meter gradient sensor staff, shown here, is made possible by this simultaneous measurement.



Features

The OMNI IV in the gradient mode provides:

- A visual readout and storage of the following information in an absolutely secure memory:
 - the gradient of the total field
 - the total magnetic field
 - magnitude of upper sensor
 - the time of measurement
 - the grid co-ordinates where the measurement is taken
 - the statistical error of total field reading of lower gradient sensor
 - the signal strength and decay rate measurement of lower gradient sensor
 - A simultaneous, not sequential, measurement of both sensors
 - A choice of sensor lengths and configurations:
 - standard 0.5 meter sensor separation mounted on staff
 - optional one meter sensor separation mounted on staff
 - optional horizontal gradient sensors
- The staff length can be adjusted to achieve desired height of sensors from the ground.
- A choice of three data storage modes:
 - spot record, for readings without grid co-ordinates
 - multi-record, for many readings at one station
 - auto record, for automatic update of station number.

Key Benefits

Reads Both Sensors Simultaneously

The OMNI IV reads both sensors simultaneously and not sequentially. This type of measurement removes the effect of diurnal variations and magnetic storm interferences from the data. This is a true gradient measurement.

Improved Productivity

The need to take only one simultaneous gradient measurement instead of two sequential measurements cuts reading time substantially.

Improved Data During Magnetic Storms

Gradient surveys can be conducted during magnetic storms resulting in no lost survey time. This is another benefit of the simultaneous measurement of both sensors.

No Diurnal Corrections of the Gradient Required

The effect of diurnal magnetic variations on the gradient measurement is cancelled due to this simultaneous measuring technique. The total field measurement of the top sensor can be self-corrected by the OMNI IV when used with the "tie-line" mode or with another OMNI IV in the base station mode.

Better Resolution of Total Field Anomalies

The OMNI IV in the gradient mode more sharply defines the magnetic responses determined by total field data. Closely spaced anomalies are individually delineated rather than being identified collectively under one broad magnetic response.

Direct Delineation of Vertical Contacts

The OMNI IV is an ideal contact mapping tool especially in vertical to near-vertical contact or fault zones. These vertical contacts are expressed at the zero line of gradient contour or profile values. Vertical dyke-like bodies can also be mapped effectively.

Enhances Near-Surface Anomalies

Shallow, near-surface sources (higher frequency anomalies) are emphasized relative to deeper responses (lower frequency anomalies). This can provide an on-the-spot approximation of the depth of the anomalous source.

Automatically Removes Regional Gradient

The gradient measurements ability to differentiate between higher and lower frequency responses effectively removes background regional gradients from anomalous residual responses.

Gradient and Total Field Readings Stored Simultaneously

Data is enhanced by the ability of the OMNI IV to simultaneously record in memory both the gradient and total field measurements as well as the statistical error. Both types of data offer a unique alternative in the interpretation of magnetic field data i.e. gradient vector diagrams, dip and strike length of body, etc.

Gradient-Base Station Operation

The OMNI IV can cycle automatically every 5 seconds in the gradient mode. This option can be used in stationary or mobile applications.

Adjustable Sensor Heights

The OMNI IV gradient sensor is mounted onto a sectional aluminum staff in which sections can be added or subtracted. This enables the operator to adapt the OMNI IV to local ground noise conditions, terrain effects and survey logistics. In doing so, near surface effects can be selectively emphasized or diminished depending upon the survey target.

Choice of Sensor Separation

The use of the 0.5 meter standard and / or 1.0 meter optional sensor separation provides unique interpretative information especially useful in near surface anomalous conditions i.e. determining if the field has curvature or is linear.

VLF EM



EM16

One of the most popular and widely used electromagnetic instruments, the EM16 VLF receiver makes the ideal reconnaissance EM. This can be attributed to its field reliability, operational simplicity, compactness and mutual compatibility with other reconnaissance instruments such as portable magnetometers and radiometric detectors.

The VLF method of EM surveying, pioneered by Geonics, has proven to be a simple economical means of mapping geological structure and fault tracing. The applications are many and varied, ranging from direct detection of massive sulphide conductors to the indirect detection of precious metals and radioactive deposits.

FEATURES

- The EM16 measures the quadphase as well as the inphase secondary field. This has the advantage of providing an additional piece of data for a more comprehensive interpretation and also allows a more accurate determination of the tilt angle.
- The secondary fields are measured as a ratio to the primary field making the measurement independent of absolute field strength.

Specifications

MEASURED QUANTITY	Inphase and quadphase components of vertical magnetic field as a percentage of horizontal primary field. (i.e. tangent of the tilt angle and ellipticity)
SENSITIVITY	Inphase : $\pm 150\%$ Quadphase : $\pm 40\%$
RESOLUTION	$\pm 1\%$
OUTPUT	Nulling by audio tone. Inphase indication from mechanical inclinometer and quadphase from a graduated dial.
OPERATING FREQUENCY	15-25 kHz VLF Radio Band (15-30 kHz optional). Station selection done by means of plug-in units.
OPERATOR CONTROLS	On/Off switch, battery test push button, station selector switch, audio volume control, quadrature dial, inclinometer.
POWER SUPPLY	6 disposable 'AA' cells
DIMENSIONS	53 x 21.5 x 28 cm
WEIGHT	Instrument: 1.8 kg Shipping: 8.35 kg

APPENDIX C
STATEMENT OF COSTS
GOO CLAIMS

APPENDIX C

**STATEMENT OF COSTS GOO 3-10, 51-56 CLAIMS
GEOPHYSICS SEPTEMBER 19-22, 1989
(Aurum Invoice #89084 to Comaplex Minerals Corp)**

Labour: All of 412-675 W.Hastings Street, Vancouver, B.C.

T.Garagan, B.Sc., Project Supervisor: 0.25 days @ \$300/day	\$ 75.00
R.Hulstein, B.Sc., Project Supervisor: 0.75 days @ \$300/day	225.00
G.Sutton, B.Sc., Geophysical Operator: 6 days @ \$240/day	1,440.00
S.Tufford, Geophysical Operator: 5 days @ \$240/day	<u>1,200.00</u>

Total Labour Costs **\$2,940.00**

Rentals

Magnetometer, VLF, Computer 6 days @ \$150/day	\$ 900.00
Truck (Aurum 4x4) 1 day @ \$100/day	100.00
Truck (Norcan)	<u>167.96</u>

Total Rentals **\$1,167.96**

Camp Costs

8 field mandays @ \$60/day	\$ 480.00
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Expenses

Helicopter: Trans North Air Bell 206 from Carmacks Invoice 84405, 84409	\$1,598.20
Gasoline	83.58
Drafting and Reprographics	740.63
Maps, Field and office supplies	<u>409.53</u>

Total Expenses **\$2,831.94**

Total Costs for Assessment Purposes **\$6,939.90**

14 Claims @ 4 years per claim **\$5,600.00**

Fees **\$ 280.00**

APPENDIX D
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Thomas Garagan hereby certify that:

1. I am a geologist with Aurum Geological Consultants Inc. of P.O.Box 5179 Whitehorse Y.T. and I supervised the work described in this report.
2. I visited the property on 3 occasions during the field season and edited and modified the final version of this report.
3. I obtained a B.Sc. with Honours in Geology from the University of Ottawa in 1980.
4. I am a member of the Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA).
5. I am a fellow of the Geological Association of Canada (F3819) and a member of the Mineralogical Association of Canada and the Yukon Professional Geoscientists Society.
6. I have been engaged in mineral exploration and geological survey mapping for 12 years of which 9 have been spent on mineral exploration programs in the Cordillera.
7. I have no interest in the claim or securities of Comaplex Minerals Corp.
8. I consent to the use of this report in a company report or statement, provided that no portion is used out of context in such a manner as to convey a meaning differing materially from that set out in the whole.

Dated at Calgary, Alta, this 18th day of April, 1990.



Tom Garagan B.Sc., FGAC, P.Geol