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GEOLOGICAL - GEOCHEMICAL

ASSESSMENT REPORT

SORT 1-7 MINERAL CLAIMS

NANAIMO MINING DIVISION

BY

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ARNEX RESOURCES LTD.

JANUARY 25, 1991

GEGLOGICAL BRANCH ASSESSMENT REPORT

20,917

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INTRODUCTION

A program of reconnaissance geological mapping, stream sediment geochemical sampling, prospecting and rock chip sampling has been conducted on the Sort Mineral Claims located in the north central portion of Vancouver Island.

Exploration work was conducted between December 21, 1989 and December 19, 1990. Sixty eight man days of exploration work was conducted by Arnex Resources Ltd. Gross total expenditure on the project to date is \$47,528.52. (See Appendix II, Statement of Expenditure; Pie-graphs, Sort Project Expenditures, Expenditures by Category.)

Exploration work was conducted on the lower accessible portions of the Property.

This Engineering Report presents a summation of data collected and reports significant results of the Exploration Program.

CLAIM TENURE

The Sort Mineral Claim Groups (A and B) comprise the Sort 1 to 7 Mineral Claims (127 claim units), Record #3667 to #3773. Anniversary dates for the 3,175 hectare (7846 acre) property are presented in Table 1, Claim Tenure.

TABLE 1
CLAIM TENURE

CLAIM	RECORD NUMBER	NUMBER OF UNITS	DATE OF RECORD	ANNIVERSARY DATE
Sort 1	3667	20	12-20-89	12-20-91
Sort 2	3668	20	12-19-89	12-19-91
Sort 3	3669	12	12-20-89	12-20-91
Sort 4	3670	20	12-21-89	12-21-91
Sort 5	3671	20	12-22-89	12-22-91
Sort 6	3672	15	12-21-89	12-22-91
Sort 7	3673	20	12-23-89	12-23-91

NOTE: All claims are located in the Nanaimo Mining Division; NTS: 92L/1E, 92K/4W

HISTORY

Regional geochemical survey data (MEMPR BC RGS 23; GSC O.F. 2040) for NTS 92L/102 I was released in June 1989. MINFILE Mineral Occurrence Inventory and updated geological base maps were also released at this time.

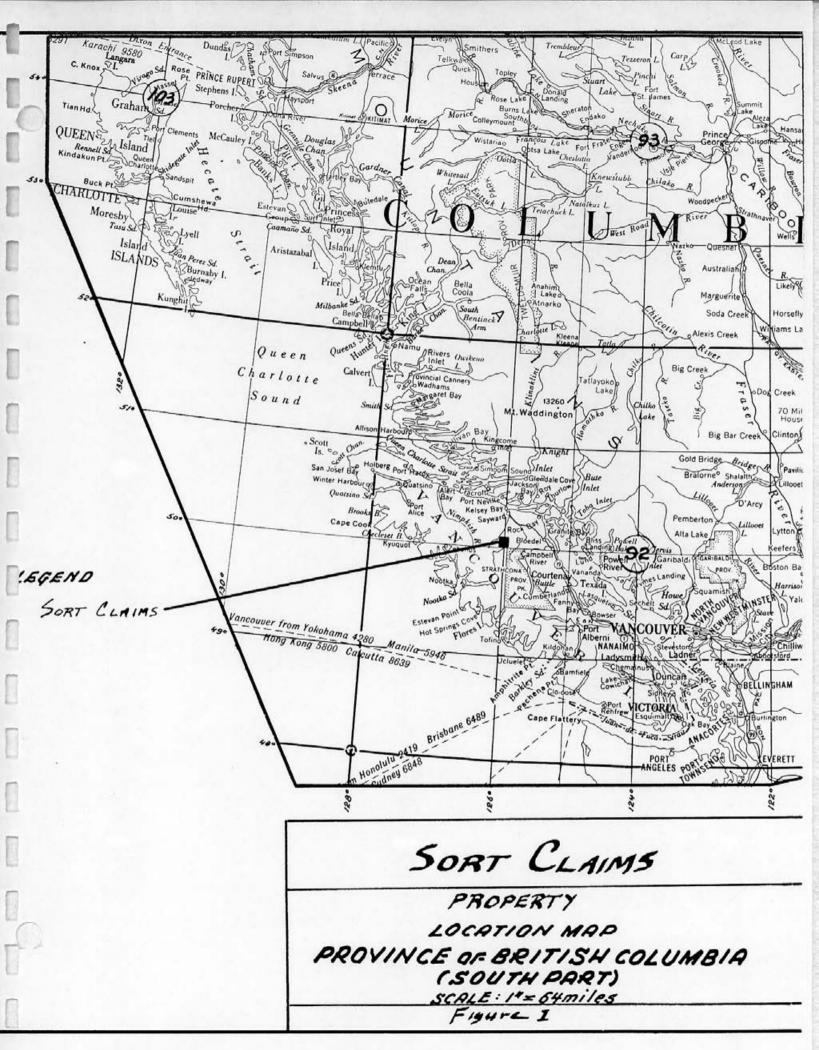
Compilation and research of all published data including investigation of Claim Tenure resulted in selection of high priority anomalies for further investigation.

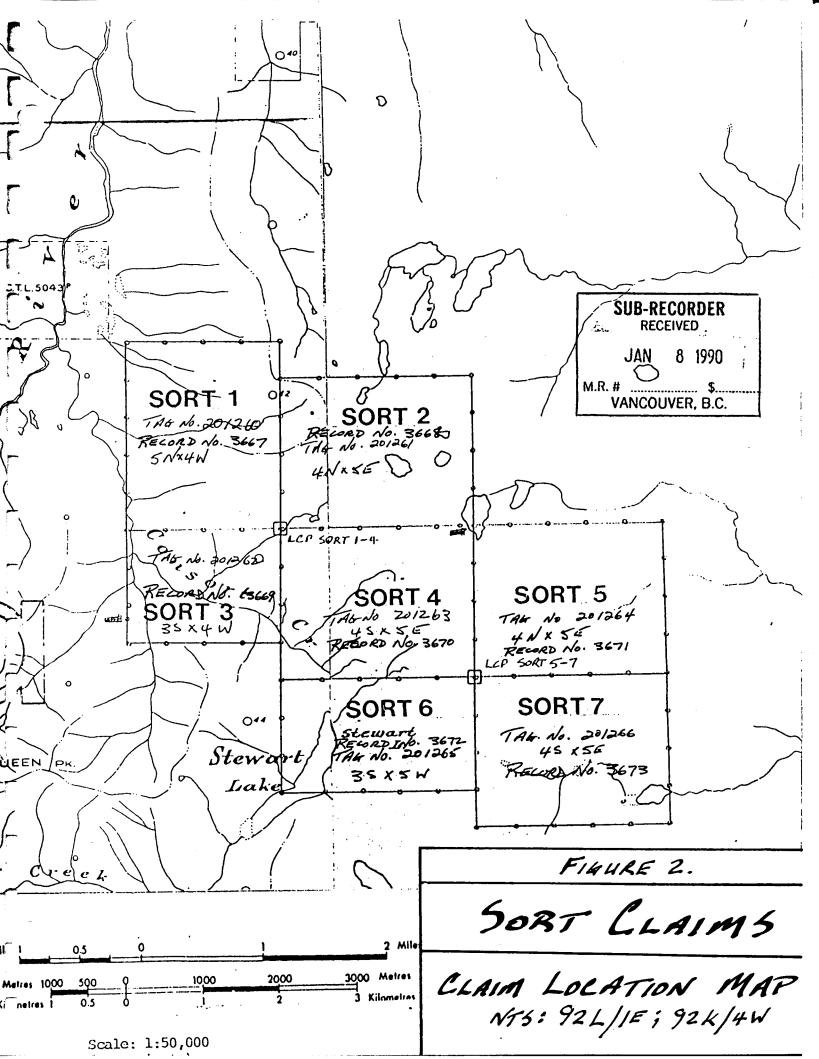
Follow-up reconnaissance field work resulted in the staking of the claims between December 19 and December 23, 1989.

As no previous claims appear to have ever been staked, this property qualifies for classification as a "New Discovery".

LOCATION

The Sort Claims are located on north-central Vancouver Island, approximately 40 km west of Campbell River on Consort Creek, an easterly tributary of the White River drainage. The Claims are situated on NTS Map Sheets 92L/1E and 92K/4W and are centered at 50°05' Latitude and 126°0' Longitude (Figure 1, Property Location Map, and Figure 2, Claim Location Map).





ACCESS

The property can be reached by vehicle by following Highway 19 approximately 55 km north from Campbell River to Sayward Junction.

From Sayward Junction, the western portion of the Claims can be accessed by approximately 30 km of good logging road on the White River Main, Stewart Main, and John Frazer Main logging roads.

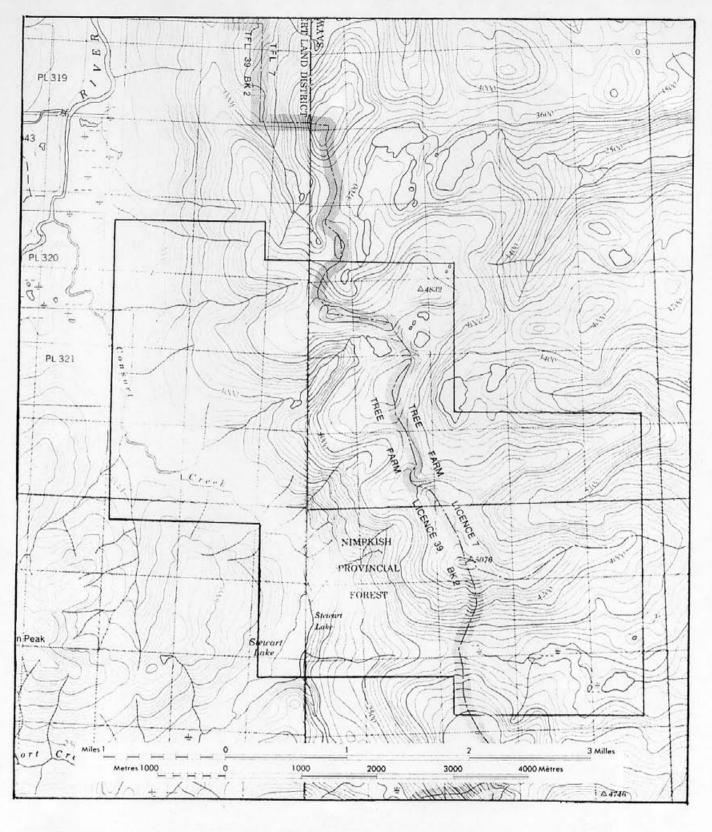
The eastern portion of the Claims can be accessed by travelling approximately 35 km to the southeast on the Salmon River Main and Grilse Creek logging road systems.

For local access on the lower elevations, the logging spur roads are used supplemented by hicking.

Helicopter support will be required in the upper more inaccessible elevations of the Property.

TOPOGRAPHY AND PHYSIOGRAPHY

The Property lies along the height of land forming the backbone of Vancouver Island. Extreme relief characterizes the topography of the Claim group (Figure 3, Topography and Figure 4, Topographic Base Map).



SORT 1~7 TOPOGRAPHY ELEVATION IN FEET Scale 1:50,000 Metres 1000 2000 3000 4000 Metres NTS: 92L / 1E : 92 K / 4W Figure: 3 Date/Revised: O1-90 / 01-91

The Stewart Lake and Consort Creek drainage system forms the V shaped valley dominating the immature western landform. The lowest elevation is approximately 1000 feet.

A northwest trending ridge of rounded high peaks (maximum elevation 5076 feet) and alpine lakes comprise the eastern portion of the property. Steeply incised northeast trending secondary creek drainages dissect the steep southwesterly facing slopes on which the bulk of the work has been done to-date.

CLIMATE

Typical Westcoast rain forest climatic conditions are present. During the spring/fall/winter months, heavy precipitation is dominant as the area becomes subject to the flow of the moist humid jet stream. Drainages are commonly in flood and very high energy flows develops on steep hillsides.

Snow usually arrives at the lowest portions of the property in the valley bottoms during the early part of December to the early part of January. It can vary considerably from year to year. Generally, the lower elevations become snow free during March.

During the summer months between June and September, hot dry spells may occur for up to weeks.

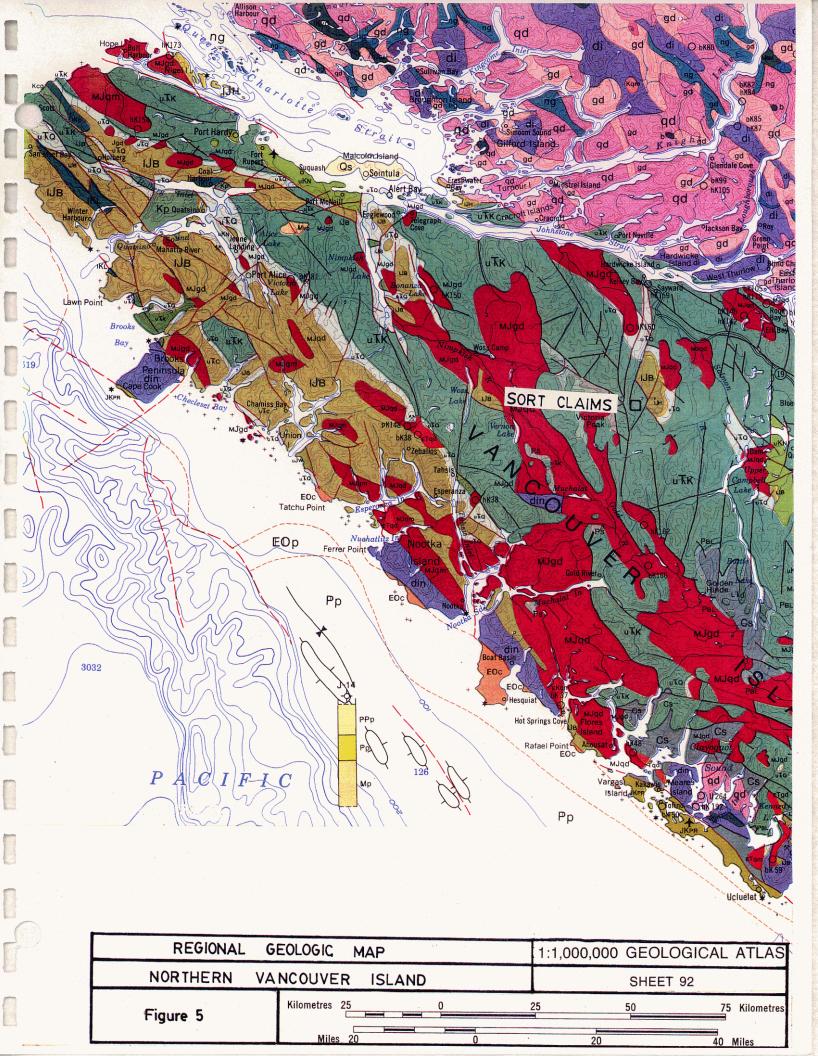
VEGETATION

Alpine scrub-brush and grasses dominate the highest elevations on the property with tree-line at approximately 4,700 feet.

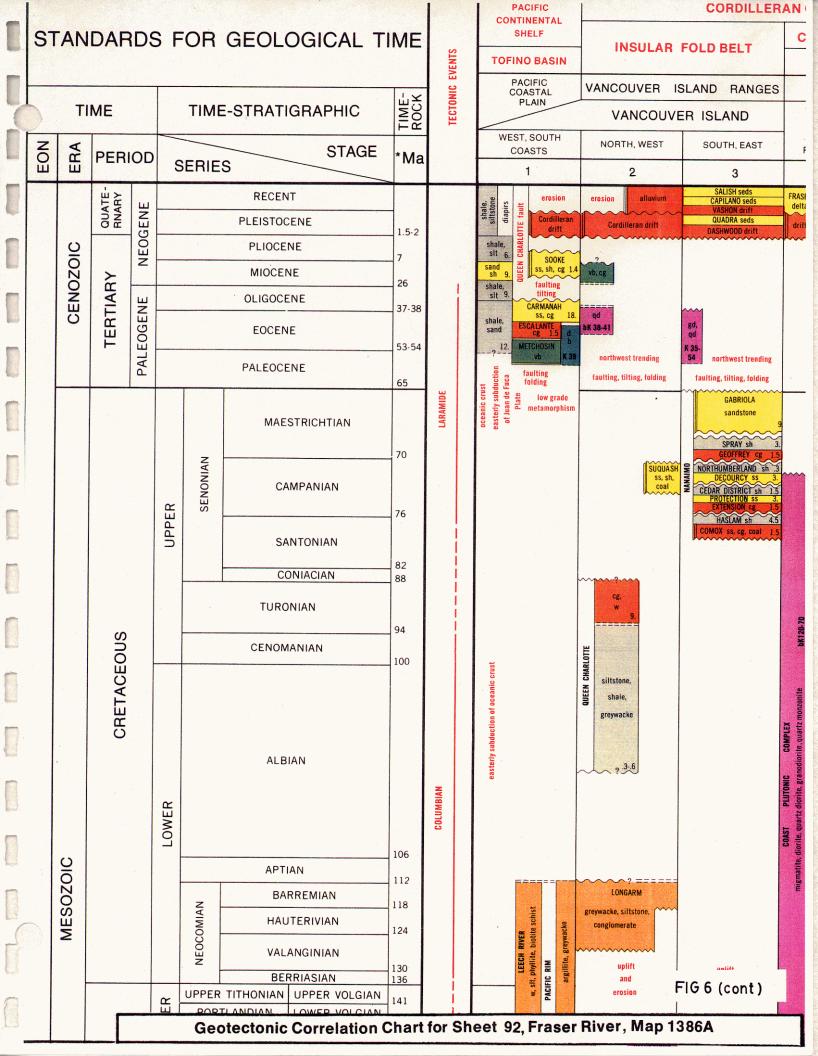
Thick conifer forest of mature fir, hemlock, balsam, spruce and ceder grow on the valley walls and along the valley bottoms. In the mature old growth forest, underbrush is only modestly dense. Outcrop areas are usually covered in a thick carpet of moss. In logged areas, very thick undergrowth can develop until trees have reached a height of 5 to 10 m.

REGIONAL GEOLOGY

The geologic history of north-central Vancouver Island can be simplified into five major episodes: (1) formation of the Paleozoic volcanic arc of the Sicker Group, (2) extrusion of the Triassic tholeiitic flood basalts of the Karmutsen Formation, (3) development of the Jurassic volcanic arc of the Bonanza Group and related Island intrusions, (4) Nanaimo group sedimentation, and (5) Tertiary volcanic and plutonic activity including emplacement of the Tertiary Catface intrusions. (Figure 5, Regional Geological Map - Map 1386A; Figure 6, Geotectonic Correlation Chart - Map 1386A; Figure 7, Relationship of Formations on Vancouver Island.)



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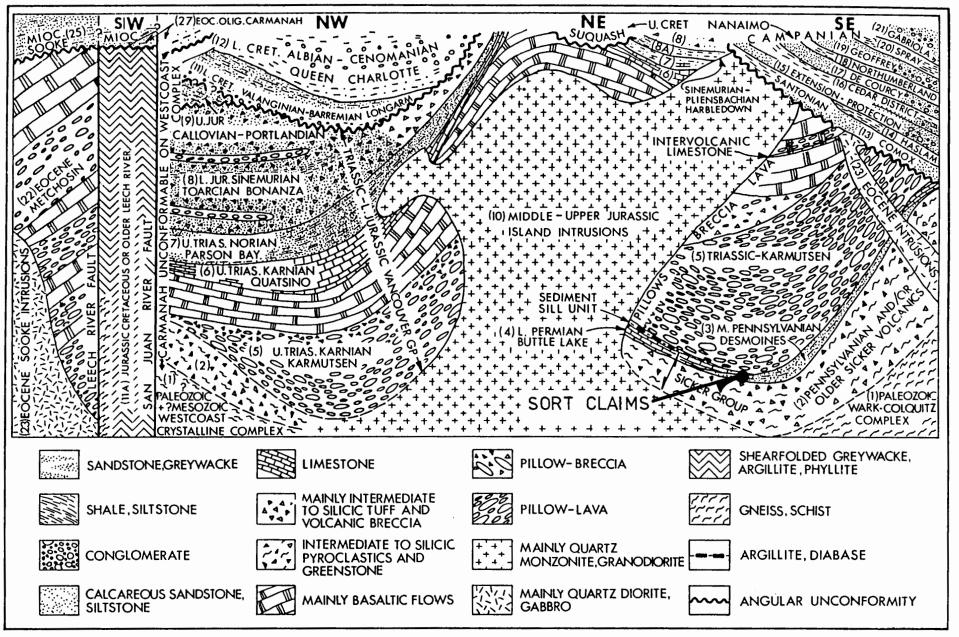


Figure 7. Relationships of formations of Vancouver Island.

Paleozoic Volcanic Arc

Sicker Group anticlinoria consist of volcanic and volcaniclastic rocks and greywackes that constitute a Paleozoic volcanic arc. The lowermost part of the Sicker Group contains the Duck Lake/Nitinat Formations characterized by pillowed and massive basaltic flows and breccias which host Au deposits in the Port Alberni area (i.e. Debbie). Middle Sicker Group rocks contain the Myra formation which is composed of more felsic volcanic and volcaniclastic rocks that host volcanogenic massive sulfide (VMS) ore deposits at the south end of Buttle Lake and at Mount Sicker. The top of the Sicker Group is capped by limestones and volcaniclastic sediments which have been intruded by comagmatic Late Triassic diabase sills.

Vancouver Group

Overlying the Paleozoic Sicker Group are the Vancouver Group rocks comprised of the Karmutsen, Quatsino and Parson's Bay formations.

The Karmutsen Formation is the thickest and most extensive formation on Vancouver Island. It is divisible into a lower part of pillow lavas up to approximately 3000 m thick, a middle section of pillow breccias and tuffs up to 1000 m thickness and an uppermost section of basalt and andesite flows with minor sedimentary intercalations.

Jurassic Island Arc

The Karmutsen Formation is overlain conformably by the late Triassic Quatsino and Parson's Bay formations dominantly composed of limestone and shade respectively.

An early to middle Jurassic Island Arc assemblage of volcanic and volcaniclastic rocks is known as the Bonanza Group. Numerous andesite and gabbro dykes and sills hosted in older strata occur as feeders for the Bonanza Group.

Coeval with Bonanza volcanism was emplacement of major quartz diorite to granodiorite batholiths, known as the Island intrusions. The Island Copper porphyry copper-molybdenum deposit is related to this magmatic episode.

Upper Mezozoic

Cretaceous sedimentary rocks of the Nanaimo Group overlie all preceding units with marked angular unconformity.

Tertiary

Tertiary Eocene Catface quartz diorite batholiths with related dyke swarms also occur throughout north central Vancouver Island. Au-quartz veins in the Zeballos district and at Mount Washington are related to this plutonic episode.

TECTONICS

The geological structure of the area is mainly the result block faulting. The faults are invariably steep and have vertical as well as transcurrent off-sets that in most instances cannot be determined due to a lack of marker beds.

Because faults are narrow linear belts of shattered rocks, they have a major influence on ground water circulation, erosion, and the topography, thus major steeply dipping faults are generally occupied by prominent valleys. Secondary fault systems commonly outcrop in steeply incised side creeks.

A northwesterly orogenic trend dominates the Insular Belt of north central Vancouver Island. A series of imbricating northwest trending easterly dipping trust faults comprise the eastern flank of the northwesterly trending anticlinorium. Local northerly and northeasterly trending block faults dissect the orogenic grain.

The Sort Claims occur at the intersection of the northwesterly trending Eve fault system and the north-south trending White River system. All creek fault trending north 20° east belongs to the White River north trending fault swarm (See Figure 8, Map of Main Faults and Fault Blocks)

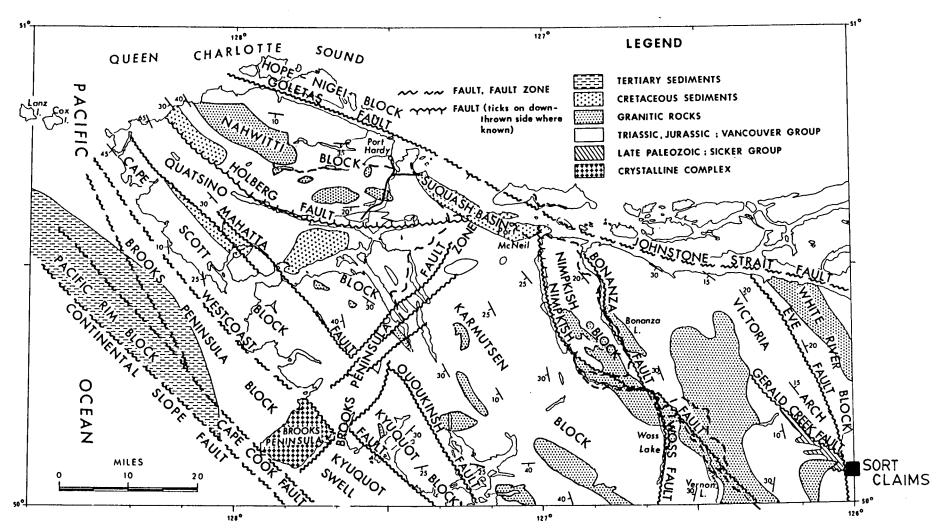


Figure 8. Map of main faults and fault-blocks.

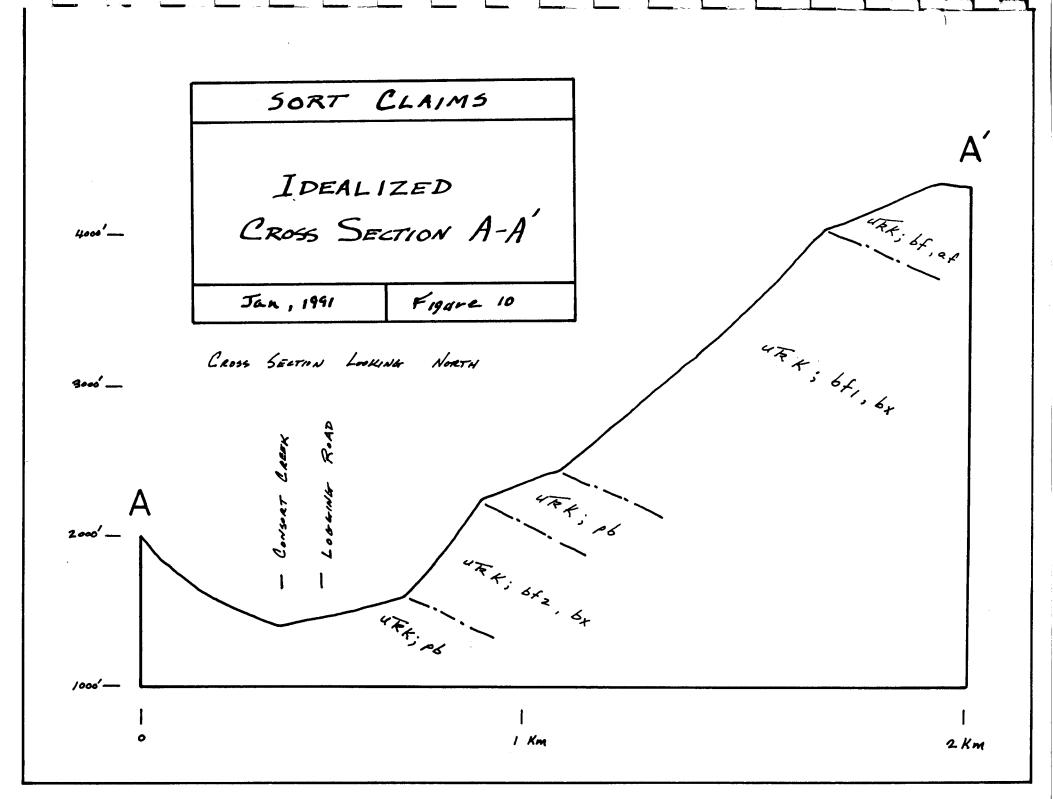
LOCAL GEOLOGY

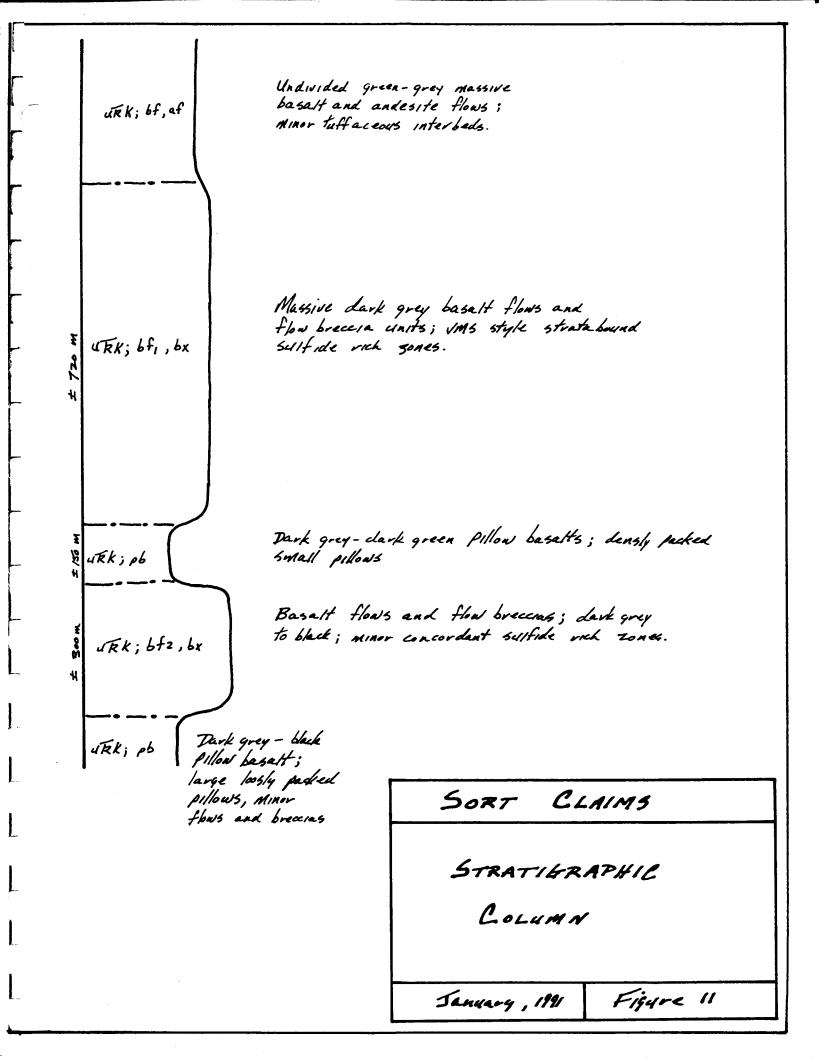
From a limited number of traverses a Generalized Geological Map, Figure 9 and Idealized Cross Section A-A', Figure 10 have been prepared. Due to a lack of marker beds or distinctive statigraphic units, correlation of the rocks which underlay the Property with regional geological units is difficult. It appears that the Property is underlain by rocks of the lower, middle and upper Karmutsen volcanics. Paleozoic Sicker group rocks may be present in the lower most stratigraphic successions.

The Property is mostly underlain by a thick series of theoleiitic basaltic lavas.

The volcanic statigraphy has been subdivided into generalized units containing pillow basalts, basalt flows / breccias and undivided basalt and andesite flows (Figure 11, Stratigraphic Column).

The lower most unit (uTrK;pb) consists of close packed pillows generally 0.5 m to several m in size. May pillows have chilled rims of dark green or brown aphanitic rock, 1 to 2 cm thick, enveloping reddish brown weathering, fine grained commonly porphyritic or amygdaloidal basalt. Roughly tetrahedral spaces between pillows are typically filled mainly with quartz and minor amounts of epidote and calcite. Such quartz "nests" are in many





places the best indicators of pillow structure in otherwise massive looking basaltic rock.

The lowermost pillow basalt unit (uTrK;pb) grades transitionally upwards to basalt flows and flow breccias (uTrK;bf2,bx). The transitional section is marked by pillow breccia, which contain angular fragments of pillows imbedded in a matrix of aquagene tuff.

Grading upwards, the monolithic pillow breccias grade into basalt flows and hetrolithic breccias of the uTrK;bf1,bx unit. The layered flows vary in thickness from approximately 2 to +20 m. Some massive well jointed layers of basalt may represent sills rather than flows. Breccias commonly contain angular fragments of flow rocks and are hosted in a chloritic matrix. These rocks are generally dark grey to black in colour. This unit is resistant to weathering and commonly forms steep bluffs and cliffs in outcrop.

The overlying pillow basalt and massive basalt unit (uTrK;pb) contains pillows which are much less recognizable in this recessive weathering unit and only the existence of interstitial quartz indicates the pillow units.

The most significant geological unit on the property (uTrK;bf2,bx) consists of interbedded basalt flows and flow breccias. Contacts between breccias and silicified tuffaceous

intercalations are often associated with alteration and sulfide mineralization. This approximately 720 m thick sequence is very resistant to weathering and forms numerous cliffs and bluffs.

The uppermost undivided uTrK; bf, af unit consists of undivided andesite and basalt flows and breccias. These generally grey to dark green rocks outcrop in the highest elevations in the western portion of the Property and are dominantly present on the easterly portion of the Property. They are also resistant to weathering and are cliff forming.

All volcanic rocks are intruded by gabbro and andesite dykes and sills. The most commonly observed dykes are generally steep in orietation and vary from a few m to up to 50 m in thickness. The dykes commonly exhibit chilled rims and low grade contact metamorphic (epidote) margins commonly occur in the host rock. Gabbro dykes and sills are thought to be coeval with the upper Karmutsen series while andesite dykes are thought be feeders for the andesitic volcanics of the Bonanza Group.

The rocks underlying the Claim group appear to be generally northerly striking with gentle to moderate dips to the east. Bedding is difficult to recognize and flow contact relations or jointing is the best indicator of attitude.

ALTERATION

Diagenetic alteration includes chloride epidote associated with pillow rims and basalt flow contacts. Interpillow quartz accretions are commonly accompanied by epidote skarn assemblages.

Two main types of local alteration occur. Ankerite (ferrodolomite), quartz and chlorite alteration is commonly associated with steeply dipping faults that outcrop in steep creek beds. Local albite, epidote, chlorite and silica alteration also occurs with sulfides stratabound within the basaltic flows and flow breccia units.

STRUCTURE

The most dominant structural feature to the Property is the northwesterly trending Eve and White River fault systems which control the White River, Consort Creek, and Stewart Lake drainages.

Major steeply dipping N20°E and east-west striking block faults commonly outcrop in hillside drainages. These faults commonly occur as shear and breccia zones that are generally up to a maximum of 5 m in width. Where observed, slickensides indicate a major vertical component of displacement rather than horizontal lateral offset. Because of the brittle nature of the basaltic

rocks, the faults form the boundaries of large undisrupted blocks that have shattered margins.

Pb Creak and Boundary Creek drainages coincide with major east-west trending block fault systems. In the central portion of the Property, Al Creek and 1324 Creek and numerous other small drainages are oriented N20°E over a 1 to 2 Km zone of major block faulting.

GEOCHEMISTRY

Procedure

Stream sediment geochemical sampling was conducted on the western and southern portions of the Claim Group.

Moss mat sampling was used extensively in the collection of stream sediments.

Field collection of approximately 1 Kg samples of moss and root material were collected from outcrops and boulders within the active stream channel. Samples were collected above low-water and below high-water levels within the drainage channel. When dried, the sediment portion trapped in the roots of the moss yielded an excellent stream sediment sample media in steep drainages where conventional active stream silt does not exist.

The -80 mesh moss mat sediment fraction was assayed for Au, Ag, As, Bi, Cu, Cd, Hg, Mo, Pb, Sb, Se and Zn. All assay results are

presented in Appendix IV, Certificate of Analysis and anomalous results are reported as Appendix III, Anomalous Results, Geochemical Data Sheets.

Threshold values were determined by choosing the appropriate percentile for Karmutsen rocks from the large sample population base reported by the Ministry of Energy, Mines, and Petroleum Resources (Table 2, Geochemical Threshold Values).

Table 2

GEOCHEMICAL THRESHOLD VALUES

ELEMENT	PERCENTILE	THRES	HOLD VALUE
Ag	99 <u>th</u>	0.6	ppm
As	95 <u>th</u>	27	ppm
Au	95 <u>th</u>	80	ppb
Bi	99 <u>th</u>	0.5	ppm
Cu	98 <u>th</u>	196	ppm
Cđ	99 <u>th</u>	1.2	ppm
Нд	95 <u>th</u>	460	ppb
Мо	99 <u>th</u>	5	ppm
Pb	99 <u>th</u>	18	ppm
Sb	98 <u>th</u>	1.4	ppm
Se	No data		
Zn	98 <u>th</u>	192	ppm

Case history study and correlation of results from moss mat derived sediments vs conventional active stream silts indicates that values are directly comparable for hydromorphic anomalies while transported anomalies of detrital minerals are slightly elevated.

Geochemical Anomalies

Significant reproducible polymetallic geochemical anomalies occur primarily in A1 and 1324 Creeks (Figure 12, Sample Location Map and Figures 13 & 14, Maps 1 & 2).

Most anomalous is A1 Creek where several samples returned values as follows: Au > 1000 ppb, Ag > 5 ppm, Cu > 300 ppm, Hg up to 1900 ppb, and anomalous As and Sb. Further up this drainage at approximately the 4000 foot elevation level, Au anomalies at Sample #9072 and #9073 indicate that the A1 Creek polymetallic geochemical may extend to this area.

Low order Au, Ag, Cu, As, Sb anomalies are present in several samples in 1324 Creek (Figure 15, Map 3 - 1324 Creek).

Anomalous As, Cu and Pb values were encountered in Pb Creek.

(Figure 16, Map 4 - Pb Creek)

Anomalous Au values ranging between 380 and 780 ppb are also present in Boundary Creek in the southern portion of the Property (Figure 17, Map 5 - Boundary Creek).

MINERALIZATION

General Description

Mineralization is generally polymetallic on the Sort Claims and consists of gold, silver (tetrahedrite?, argentite?), chalcopyrite, sphalerite, and galena associated with pyrite and other iron sulfides. Arsenopyrite and stibnite are often present as fine grained disseminations.

A high Au to base metal ratio exists for both rock chip and geochemical stream sediment sampling. For example, geochemical values of +1000 ppb Au are often accompanied by values only in the order of 300 ppm Cu. In rock chip sampling, values of up to only 2 1/2 % Cu can contain as much as 100 g/t Au.

Most sulfide mineralization occurs in late stage cross-cutting quartz-carbonate veins and breccias related to northeasterly or easterly trending fault zones. Precious metal and base metal fracture filling sulfides are commonly hosted in a gangue of quartz, ankerite, and silicified volcanic rock. These crosscutting fracture zones show pervasive silicification flanked by propylitic alteration (epidote and chlorite).

Distinct from the cross-cutting quartz vein related mineralization are disseminated (locally to 50%) sulfides hosted in altered volcanic rocks (VMS style). Stringer zones and crudely banded sulfides up to 10 mm in thickness are hosted in bleached (albitized, argillized), altered (dark chlorite and epidote) volcanic flows and flow breccias. This style of mineralization is restricted to the basalt flow and breccia units (uTrK; bf1, bx, and uTrK; bf2, bx).

Float containing sulfide mineralization occurs as pebbles, cobbles and boulders in at least three drainages on the Property. The float is often angular and similar in lithology to the local outcrop and is considered to be near source. Follow up prospecting of float debris has resulted in the discovery of sulfide showings in outcrop.

A1 Creek Mineralization

Mineralized float and outcrop showings occur over a +700 m strike length on A1 Creek (See Figure 13, Map 1 and Figure 14, Map 2). Up to 0.3 m angular float assays as high as 101 g/t Au (2.96 oz/T), 423 g/t Ag (12.6 oz/T) and 2.6 % Cu (Table 3, Significant Assays, Rock chip Sampling, A1 Creek).

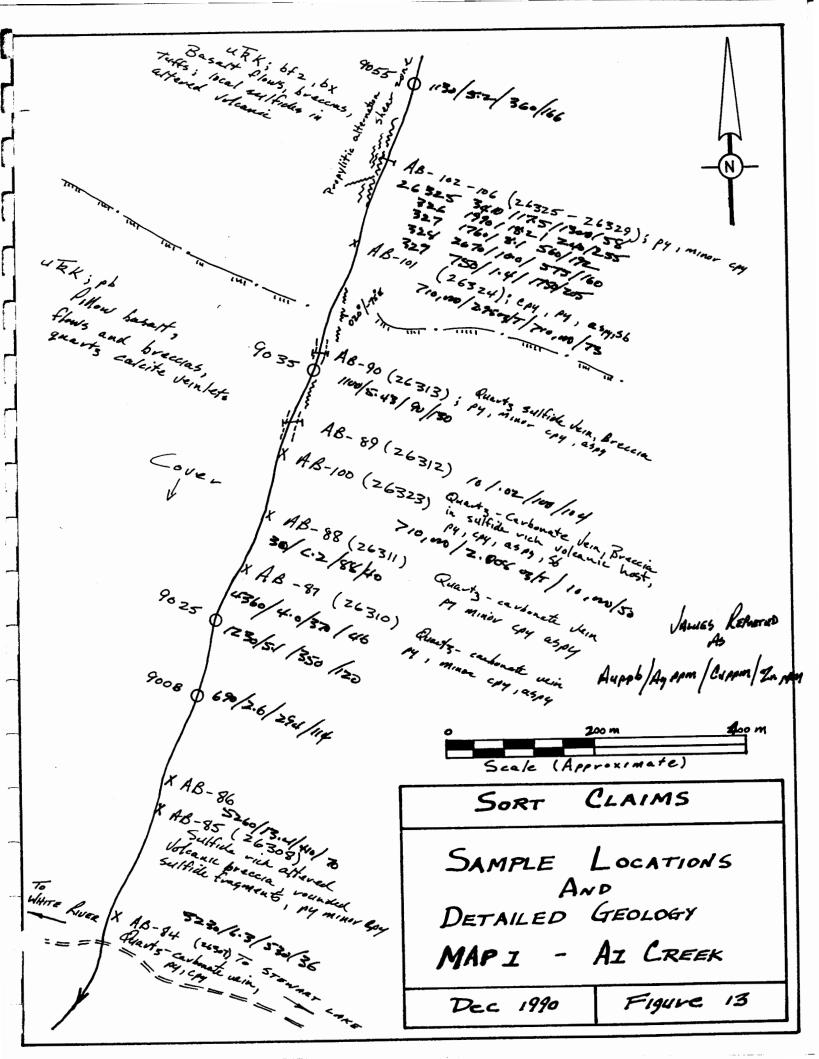
Table 3

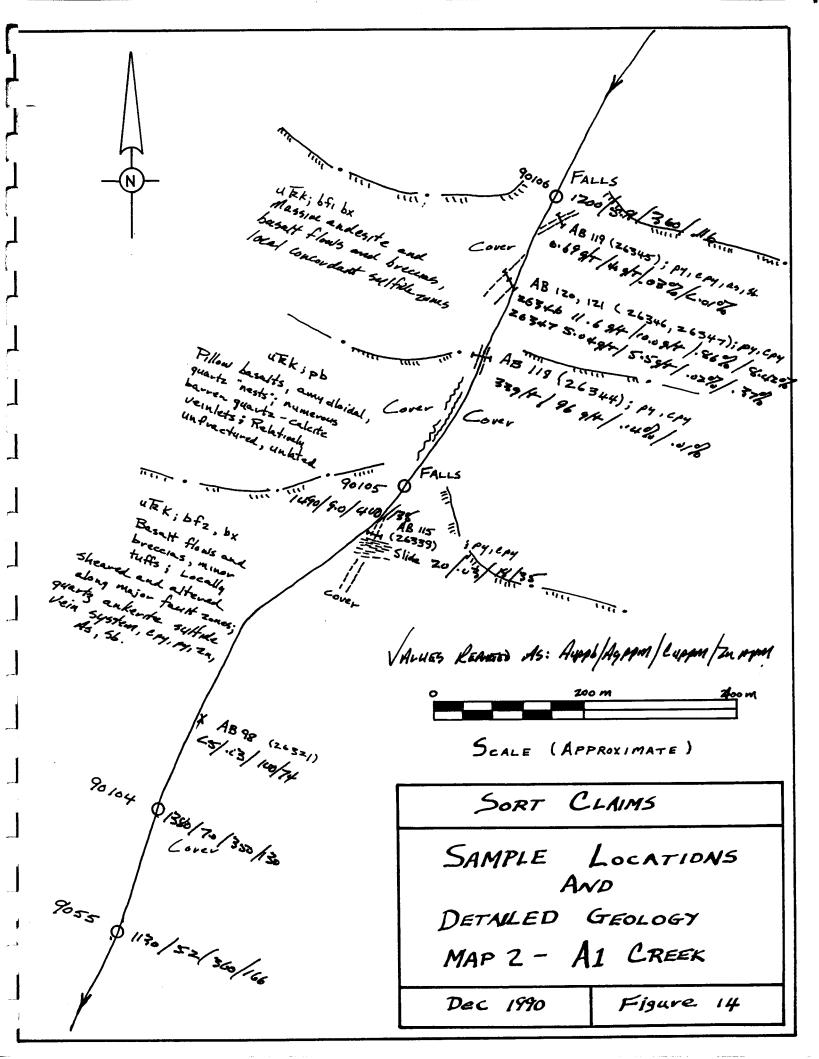
SIGNIFICANT ASSAYS

ROCK CHIP SAMPLING

A1-CREEK

LOCATION	SAMPLE	SAMPLE	TRUE/APPARANT	ASSAY			
	NO.	TYPE	WIDTH	Au	Ag	Cu	Zn
AB-100	26323	Float,grab	0.25m AW	70g/t	545g/t	1.2%	
AB-101	26324	Float,grab	O.3m AW	101g/t	423g/t	2.6%	
AB-106	26329	Channel	O.4m TW	750ppb	·	0.14%	205ppm
AB-118	26344	Channel	O.3m TW	33g/t	96g/t	0.14%	
AB-119	26345	Channel	0.5m TW	0.7g/t	4g/t	0.03%	
AB-120	26346	Channel	1.0m TW	11.6g/t	10g/t	0.86%	8.42%
AB-121	26347	Channel	0.5m TW	5g/t	5g/t		0.37%
AB-120 121	26346, 26347	Continuous	1.5m TW	9.5g/t	8.3g/t	0.57%	5.7%





Pyrite, chalcopyrite and fine grained arsenopyrite and stibnite occur as fracture fillings in cross cutting veins and breccias. This style of mineralization commonly occurs in gash vein structures in dilatent brittle-fracture fault zones. Pervasive silicification accompanies vein and breccia zones.

Sulfide mineralization also occurs as stratabound disseminated sulfide rich zones in altered volcanics rock. Alteration includes chlorite-pyrite rock containing pyrite locally to 20%. VMS style mineralization is suggested by crude layering in the sulfide rich volcanic rocks. Average grade may be represented by sample AB-87 (#26310) which assays 4360 ppb Au (4.3 g/t).

Where faults and associated quartz-ankerite veins cross-cut sulfide rich volcanic zones hosted in the favourable basalt flow and breccia units (particularly near the gradational contacts of these units) is where base and precious metal values seem to occur most frequently.

Follow-up prospecting of float resulted in the discovery of four outcrop showings in the norther portion of Map 2. Channel samples taken over a 450 m strike length over widths of 0.25 to 1 m returned grades between 5 and 33 g/t Au and up to 1 % Cu and 8 % Zn (Table 3, Significant Assays, A1 Creek).

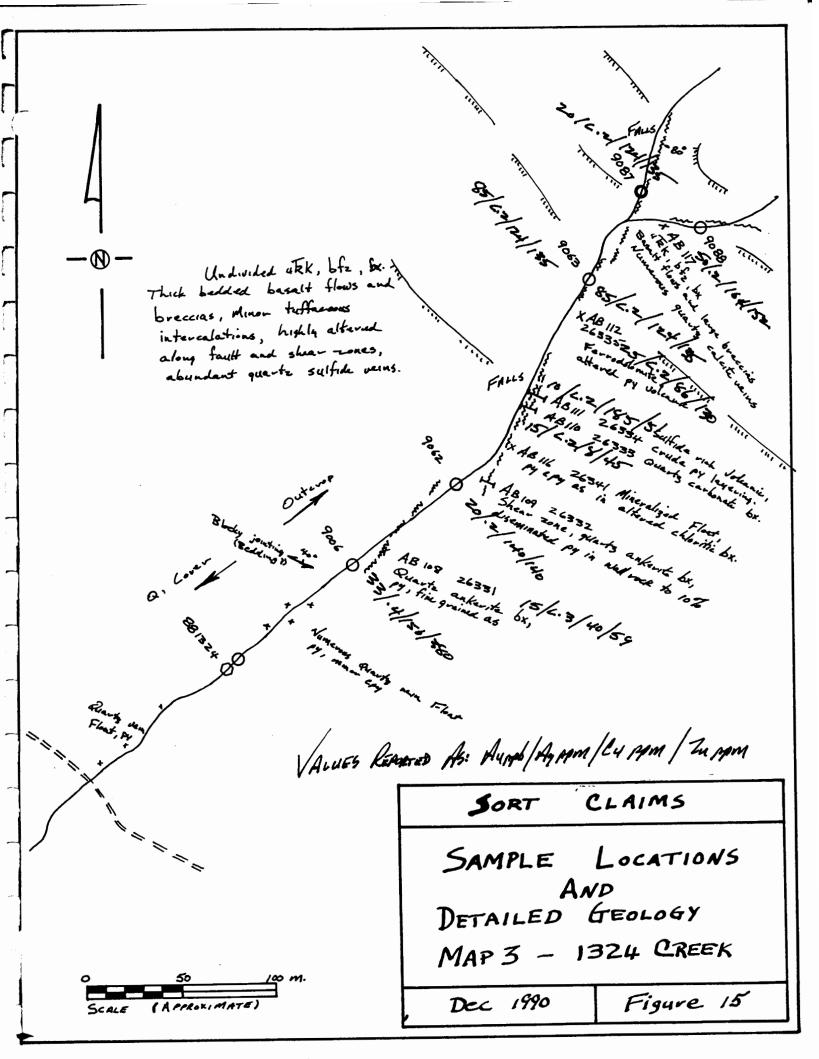
At sample location AB-115 (#26339) a 2.5 m channel of crudely layered sulfides (up to 30%) hosted in chloritized volcanic are

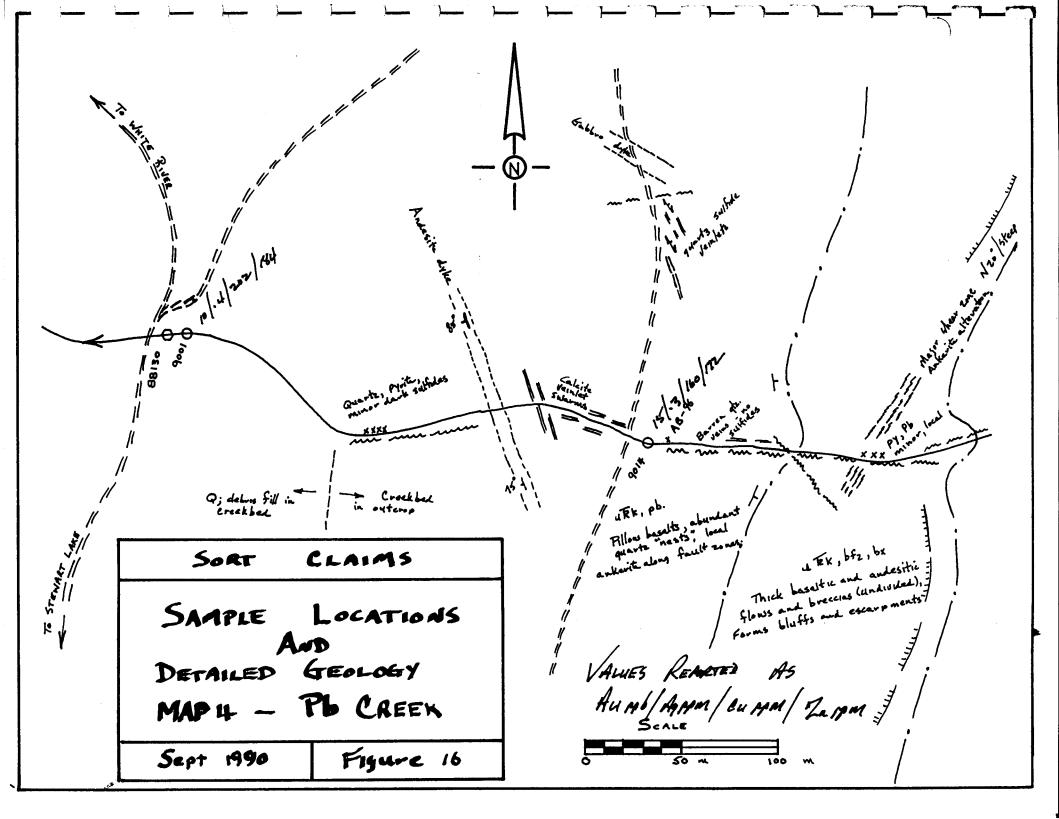
poorly exposed. The extent of this zone cannot be determined until additional hand trenching has been completed.

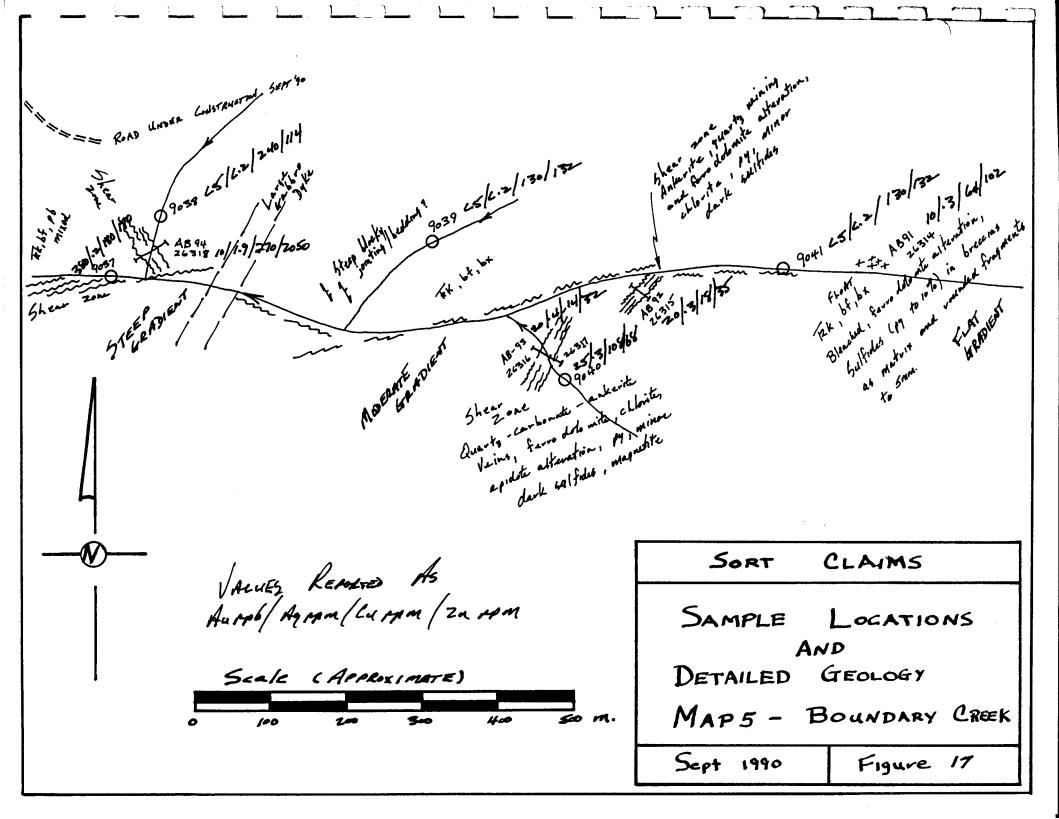
The widest portion of the mineralized zone found in outcrop to-date occurs at AB 120-121 (#26346-26347). VMS style crudely banded sulfides are interlayered with bleached (albitized, argillized), altered (chlorite epidote) volcanics. The weighted average grade over a true width of 1.5 m is calculated to be 9.5 g/t Au, 8.3 g/t Ag, 0.57 % Cu, and 5.7 % Zn. Locally, sulfides total up to 40% as crude layerings and disseminations. The extent of this zone is unknown as bank slide debris covers part of the showing and additional hand trenching is required to fully expose the mineralization.

1324 CREEK

In 1324 Creek, mineralized float occurs over a strike length of +300 m. While some mineralization is related to cross-cutting quartz veins, some mineralization also occurs as sulfide rich altered volcanic rocks associated with concordant alteration zones. At location AB-109 (#26332), a value of 0.5 % Cu and 88 g/t Ag was obtained over a 1 m true width channel sample. Arsenopyrite and stidnite are also associated with sulfides in this zone. The best mineralization appears to be related to where cross-cutting quartz veins cut sulfide rich volcanic rocks.







BOUNDARY CREEK

In Boundary Creek, sulfide float and mineralized outcrop showings along a cross-cutting east-west striking fault system occur over a +1 km strike length. Silicification, quartz-ankerite veining and chlorite-epidote alteration are present.

SUMMARY - CONCLUSIONS

A geological and geochemical exploration program has been carried out on the lower accessible portions of the Sort 1 to 7 Claim group.

Geochemical anomalies have been encountered in four creeks.

Anomalies consists of polymetallic combinations of Au, Ag, Cu,

Zn, Bp, As, Hg, and Sb.

Sulfide mineralization occurs as float and outcrop showings on three creeks. Showings appear to be concentrated in two distinctive basalt flow and breccia units.

Reproducible +1000 ppb gold anomalies, mineralized float occurrences and showings are located over a +700 m strike length on A1 Creek. A sample of high-grade float which is considered to be near source returned grades of up to 101.5 g/t Au (2.96 oz/T), 423 g/t Ag, (12.3 oz/T), and 2.6 % Cu. Follow-up prospecting of additional high-grade float encountered one showing area where

four channel samples taken over a 450 m strike length (between 0.25 and 1.0 m apparent widths) return values between 5 and 33 g/t Au, up to 1 % Cu and up to 8.4 % Zn.

Preliminary exploration results have been encouraging. Potential exists for the Property to host economic polymetallic precious and base metal deposits.

Additional exploration work is required to evaluate the Property's potential.

Dated January 25, 1991

A. O. BIBASIAND

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ARNE O. BIRKELAND, P.ENG.

President,

ARNEX RESOURCES LTD.

BIBLIOGRAPHY

SELECTED REFERENCES

Andrew, A., and Godwin, C. (1989): Galena Lead Isotope Model for Vancouver Island, MEMPR Paper 1989-1.

Carsan, D.J.T. (1973) Plutonic Rocks of Vancouver Island, GSC Paper 72-44.

Lamb, J. (1981): The Island Copper Mine, CIM District 6 Paper.

Gravel, J.L. and Matysek, P.F., (1989): 1988 Regional Geochemical Survey, MEMPR Paper 1981-1.

Matysek, P.F., Gravel, J.L., and Jackaman, W. (1989): Regional Geochemical Survey, NTS 92E-Nootka Sound, MEMPR BC RGS 21, GSC O.F. 2038.

Matysek, P.F., Gravel, J.L., and Jackaman, W. (1989): NTS 92L/102I-Alert Bay / Cape Scott, MEMPR BC RGS 23, GSC O.F. 2040.

Matysek, P.F., Gravel, J.L. and Jackanun, W. (1989): NTS 92K-Bute Inlet, MEMPR BC RGS 22, GSC O.F. 2039.

MEMPR MINFILE, (1989): 092E - Nootka Sound.

MEMPR MINFILE, (1989): 092-L/102I - Alert Bay / Cape Scott.

MEMPR MINFILE, (1989): 092K - Bute Inlet.

Muller, J.E., Cameron, B.E.B., and Northcote, K.E. (1981): Geology and Mineral Deposits of Nootka Sound, GSC Paper 80-16.

Muller, J.E., Northcote, K.E., and Carlisle, D. (1974): Geology and Mineral Deposits of Alert Bay - Cape Scott, GSC Paper 74-8.

Muller, J.E. (1977): Geology of Vancouver Island, GSC O.F. 463.

Muller, J.E. (1980): The Paleozoic Sicker Group of Vancouver Island, GSC Paper 79-30.

Roddik, J.A. (1977): Notes on the Stratified Rocks of Bute Inlet Map-area, GSC O.F. 440.

Roddick, J.A., Muller, J.E., and Okulitch, A.V. (1979): Frazer River, Sheet 92, GSC Map 1386A.

Schroeter, T.G., Land, C., and Carter, G. (1989): Gold Production and Reserves in B.C., MEMPR O.F. 1989-22.

Taywin Resources Ltd. (1989): Geology of the Merry Widow Property, Cordilleran Roundup Paper.

Walker, R.R., (1980): Western Mines - Lynx, Myra and Price Deposits, CIM Bulletin Vol. 73, No. 824.

Wilton, P. (1989): Sicker Group Workshop and Personal Communication, B.C.G.S.

GLOSSARY

ABBREVIATIONS COMMONLY USED

Ag Silver
Au Gold
As Arsenic
Cu Copper
Pb Lead
Sb Antimony
Zu Zinc

g/t Grams/tonne oz/T Ounces/ton m Meters

mm Millimeters

cm Centimeters km Kilometres

VMS Volcanogenic Massive Sulfide

MAP LEGENDS

Aspy Arsenopyrite
Cpy Chalcopyrite
Py Pyrite
Sb Stibnite
Zn Sphalerite

APPENDIX I

CERTIFICATE OF QUALIFICATION

APPENDIX I

CERTIFICATE OF QUALIFICATION

- I, ARNE O. BIRKELAND, DO HEREBY CERTIFY THAT:
- I am a Geological Engineer in the employ of Arnex Resources
 Ltd. with offices at 4005 Brockton Crescent, North
 Vancouver, British Columbia.
- 2. I am a 1972 graduate of the Colorado School of Mines with a Bachelor of Science Degree in Geological Engineering.
- 3. I have been a registered Professional Engineer with the Association of Professional Engineers of British Columbia (Registration No. 9870) since 1975.
- 4. My primary employment since 1966 has been in the field of mineral exploration, namely as a Geological Engineer.
- 5. My experience has encompassed a wide range of geological environments and has allowed considerable familiarization with geophysical, geochemical and diamond drilling techniques.
- 6. I have conducted the exploration work on the property reported on herein. This report is based on data acquired and also draws from researched published information available on the area.

DATED at North Vancouver, British Columbia,

this 25 day of JANUARY, 1991

ARNE O. BIRKELAND, P ENG.

APPENDIX II

STATEMENT OF EXPENDITURE; PIE-GRAPHS, SORT PROJECT EXPENDITURES, EXPENDITURES BY CATEGORY

APPENDIX II

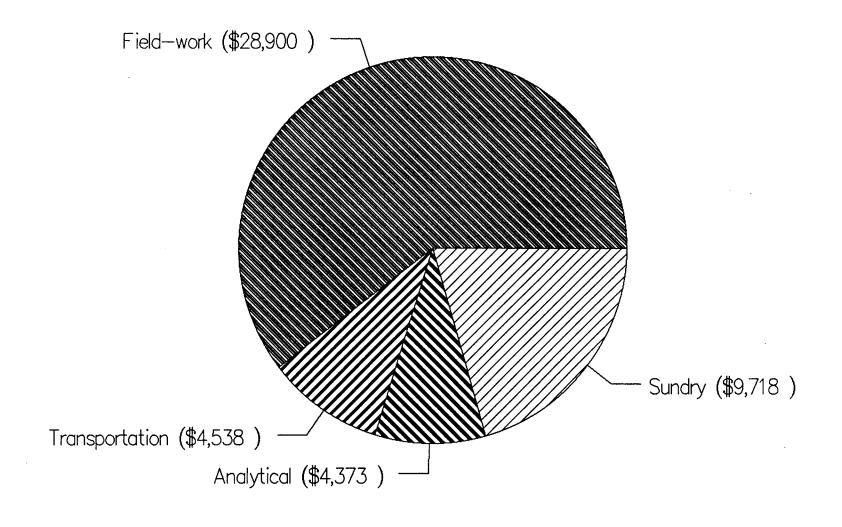
STATEMENT OF EXPENDITURE

REPORT PERIOD: December 21, 1989 - December 19, 1990

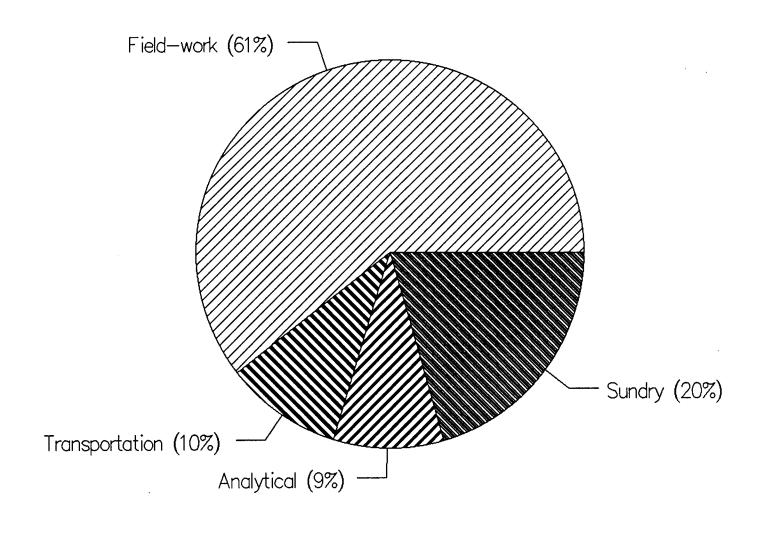
DESCRIPTION ========	AMOUNT
Field-work - 68 man days @\$425/day	\$28,900.00
Transportation	\$4,537.89
Analytical	\$4,372.77
Sundry Room and Board, Groceries, Gas, Field Supplies, Maps, Copies, etc.	\$9,717.86
	=========
TOTAL	\$47,528.52

A. O. Barkeland, P. Eng.

PIE GRAPH SORT PROJECT EXPENDITURES



SORT PROJECT EXPENDITURES BY CATEGORY



APPENDIX III

GEOCHEMICAL DATA SHEETS , STREAM SILTS, MOSS MAT, ROCK CHIP SAMPLING;
ANOMALOUS RESULTS

ARNEX KLSOURCES LTD.

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GEOCHEMICAL DATA SHEET - STREAM SILTS (ASS)

- Moss MAT (MM) NTS 921

92L/15; 92K/4W

SAMPLER	_AOB	

DATE 1990

PROJECT SORT CLAIMS

CREEK

EXPLORATION DIVISI

SAMPLE	VOL	UME	DRAIN	QUALITY	TYPE OF	COLOUR	TEXTURE	% ORGANIC	PETROLOGY OF BEDROCK		ASSAYS		
NO.	Width	Depth	AGE		SAMPLE			MATERIAL	AND/OR FLOAT	ADDITIONAL OBSERVATIONS OR REMARKS]
9001	2	•4	Flat	4.1	ASS	dark	SIH	Low	KK, pb	Culvert (2n) in road crossing	Cu:	202	PP
						924			*	500 m aboue sample site	1	30	
												+ 46	1
							,]
9008	.5	.2	Mad	4	MM	dark	silt		KK +JB	Float - cherty treff (felsic)	Au	- 690	ppl
						grey				- gry veining + associated		= 30	1
										ankerite (Fe dolomite) common	li li	= 294	1 .
										•		2.6	
9014	2	1	step	4	MM	dark	41+		Fek; pb	Ex bfz, bx; Quantz veining	Pb	76	PPn
						brown			,	+ Suffiches common			
9018	.5	.1	Mad	4	MM	dark	Silt-	Low	友 K	4FK bf, by	Zn=	-420	PPn
						brown	Sand				Pb:	72	PPA
9019	1	.5	Flat	4	MM				EK	Low grade skarn (prop) alteration	Au-	780	PPb
								<u> </u>		Common.	_ Bi	0.7	PP.
9021	2	1	Mod	4	MM				Q	Possible nugget effect (placer).	Au	= 490	ppl

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GEOCHEMICAL DATA SHEET - STREAM SILTS -(ASS)
- MOSS MAT - (MM) NTS

EXPLORATION DIVIS

92 L/1E; 92K/4W

SAMPLER HOB

PROJECT SORT CLAIMS

CREEK

		405	QUALITY	TYPE OF	COLOUR	TEXTURE	% ORGANIC	PETROLOGY OF BEDROCK	ADDITIONAL OBSERVATIONS OR REMARKS		A:	SSAYS	1	
WIGH	Depth		Por		Brown	Sandy			Steep dry cruek in lossing slash			As-	42	Don
-							,							
														1'
2	.5	Hap	6	mm	gney	Very fine	Low	4 Fek, ph	Pillow basalt and basalt flows &			Au=	1230	PPB
						silt			breccia, ankerite attenation, quantz			Ag =	5.1	ppw
				de de comp. No. 1 de 1 de 1						1	56	Cu=	350	PPM
								1	sulfides common		900	Pb¥	40	ppn
												Sb =	1.6	ppn
Z.	٠১	Steep	4	MM	gney_	self	Mod	4 Fee	Pelland basatt and basatt flants			Au=	1100	ppl
						i			and by ankeretic attentions,			4=	5.4	ppr
									gtz veining, sulfick "flooling"	45	= 60	C4	= 390	ppv
			•						l '			Hg=	1200	PPI
]
2	/	Flat	4	MM					Minor vuscy quarts with dark sulfido			Au=	380	ppt
				1					· 1					
· ·				1.1 2 2					1. 413 Caro Dans C					
							NO. NO. OF COLUMN 2011 STATES OFFICE AND ADDRESS.							
	Z Z	Z ·S	Z ·S Steep	Width Depth AGE Steep Poor 2 .5 Steep G	Width Depth AGE SAMPLE Steep Poor MM 2 .5 Steep G MM 2 I Flat G MM	Width Depth AGE SAMPLE COLOUR Steep Poor MM Brown 2 .5 Steep G MM Guy Level of MM Guy 2 .5 Steep G MM Grey Level of	Width Depth AGE Steep Poor MM Brown Sandy 2 .5 Steep G MM gney Self brown Sand 2 I Flat G MM from Loubles	Width Depth AGE SAMPLE COLOUR TEXTURE ORGANIC MATERIAL Steep Food MM Brown Sandy Mad 2 .5 Steep G MM Guy Jery Frie Low GIH 2 .5 Steep G MM Guy Self Mod brown Sand 2 I Flat G MM from boulding	Width Depth AGE SAMPLE COLOUR TEXTURE ORGANIC OF BEDROCK AND/OR FLOAT Steep Poin MM Brown Sandy Med 4/EK 2 .5 Steep Gr MM GREY Self Mod 4/EK Steep Gr MM GREY Self Mod 4/EK Sand Sand Sand Sand Sand Sand Sand Sand	Width Depth AGE SAMPLE COLOUR TEXTURE ORGANIC OF BEDROCK MATERIAL AND/ORFLOAT Steep Pour MM Brown Sandy Mad 47EK Steep dry cruek in lossing slagh No grand in cruek bad 2 · S Hap G MM gruy veryfrir Low 47EK, ph Pillow bacalt and bacalt flows & Sulfides commen 2 · S Steep G MM gruy Silf Mod 4EW Pillow bacalt and bacalt flows & Sulfides commen 2 · S Steep G MM gruy Silf Mod 4EW Pillow bacalt and bacalt flows and bx, andaratic afternation, The winning and selection of the sel	Width Depth AGE SAMPLE COLOUR TEXTURE MATERIAL AND/ORFLOAT Steep Poor MM Brown Sandy Mad 4 TEK Steep dry cruek in logging starth No grand in cruek bad 2 -5 stap Gr MM gruy very fine Low wife, pb Pillow baselt and baselt flows & Sulfrides common light Exilfrides common light South Sand Verwin Sand When Med wife Pillow baselt and baselt flow's Assertified common light Assertifieds common light Trend Low Miner weight grants with dark sulfrides 2 1 Flat Gr MM Miner weight guarts with dark sulfrides Miner weight guarts	Width Depth AGE SAMPLE COLOUR TEXTURE DAGANIC OF BEDROCK AND/OR FLOAT AND/OR FLOAT ADDITIONAL OBSERVATIONS OR REMARKS AND/OR FLOAT AND/OR	WIGHT DEPTH AGE SAMPLE COLOUR TEXTURE ORGANIC OF BEBROCK MATERIAL AND/ORFLOAT Steep For MM Brown Sandy Mad 47EH Steep dry cruek in logging stayl As: No grand in cruek bad Ph: No grand in cruek bad Sk= 2 · S stap Gr MM gruy very frie Low 47EH, ph Pillow becalt and basalt flows & Hu= colour grand sall infriention with As= 56 Cu= sulfinles commen Hg= Aoo Pbt Sb= 2 · S stop Gr MM gruy self Mod 4EH Pillow basalt and basalt flow's As= 56 Cu= sulfinles commen Hg= Aoo Pbt Sb= 2 · S stop Gr MM gruy self Mod 4EH Pillow basalt and basalt flow's As= 60 Cu frod Cpy Minisor durgey quarts with dark sulfide Misor durgey quarts with dark sulfide Misor durgey quarts with dark sulfide Misor durgey quarts with dark sulfide Austral Au	Wilder Depth AGE SAMPLE COLOUR TEXTURE ORGANIC OF BEDROCK ADDITIONAL OBSERVATIONS OR REMARKS Steep Por MM Brown Sarely Mad 4 Text Steep dry couch in logging slagh AS=42 No grand in couch bad Pb=22 S=1.4 2.5 Hap G MM grey Very in Low 4 Text, ph Pillow becalt and baselt flows & Ay=5:1 remining and salectication with AS=56 Cu=350 Sulfishes common Hy-Roo Pbt to Sb=166 2.5 Steep G MM grey Self Mod 4 Text Pillow baselt and baselt flow's Ay=5:4 The Grand Age of MM grey Self Mod 4 Text Pillow baselt and baselt flow's Ay=5:4 Grand Ax metantia attention, Hy=5:4 Grand Cpy Mining, selfish 'flowling' Az=60 Cu=350 Minor dusgry quarts with dash sulfides Hy=1200 Minor dusgry quarts with dash sulfides Hy=1200 Minor dusgry quarts with dash sulfides Hy=1200 Minor dusgry quarts with dash sulfides Hy=380 in that

ARNEX JOURCES LTD.

GEOCHEMICAL DATA SHEET - STREAM SILTS (ASS)

EXPLORATION DIVISI

- MOSS MAT (MM) NTS

CREEK

924/1E; 92K/4V

PROJECT SORT CLAIMS

SAMPLE	VOL	.UME	DRAIN		TYPE OF	COLOUR	TEXTURE	% ORGANIC	PETROLOGY OF BEDROCK	7,010,00		AS	SSAYS]
NO.	Width	Depth	AGE		SAMPLE			MATERIAL	AND/OR FLOAT	ADDITIONAL OBSERVATIONS OR REMARKS					
9055	1	.5	Steep	4	MM	guy .	tendy	LOW	Fee Geta	Silve fixation, sulfite "flooding",			A4=	- 1/30	PPL
	<u> </u>				from	brown				buttiles common - ankeritic				5.2	
	ļ				Cuek-bed					and carbonate attention absorbed	(
				<u> </u>	outcrap		·			with 020/4tap fout				= 58	
												140			4
9063	2.3	.5	Mad	4	MM	brown_	Gardy_	Low	When Stz-bx	Sulfile "floding" - ankeriti			Au	- 85	ppt
	<u> </u>				from o.c.					alteration common					
9069	2	.5	Stap	Rock	MM	brown	Sundy	Mod-	4Fex; bf, af	Country rock more and inti;			AU-	120	ppb
							Coarse material	Hyh		desiminated sutides common.					
							material				_				
9072	5	1	Mad	6	mM	brown	Sandy	Mod	4 F2K; bf of	Anderitic country vock-		<u></u>	Au=	110	PPI
					long moss				, , , , , , , , , , , , , , , , , , ,	Anderitic country vock- 9tz + 44/tides common					
9073	/	.5	Staf	4	MMfron	brown	Sanch	Low.	utes; bfas	Gille Couck			14=	85	ppl
					06.		\ \ <i>\</i>								
9074	·خ`	.3	Las	4	mM	dank	fifty	Low	4/2k; Hat	Smull begand luck - Selfiles to 10% in Country Reck (anderstic)			Au	- 245	ppl
						gney	"' <i> </i>			to 10% in Country Rep (understic)					Ĵ

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1990

GEOCHEMICAL DATA SHEET - STREAM SILTS (ASS)
- MOSS MAT (MM) NTS

92 L/IE; 92K/4W

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SAMPLE NO.	-	UME Depth	DRAIN AGE	;	TYPE OF	COLOUR	TEXTURE		PETROLOGY OF BEDROCK AND/OR FLOAT	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS]
9095		<u>ļ</u>	Steep	4	mM	dork	SIH	Low	4hx	Small area of in Syence in drainage	Au	=135	- P
9097	/_	.2	Stap	4	mM	dark	hilt	Low Thick we	4FX mat	From eliff - waterfull face	1.	40 310	- P1 - P1
9099	2	/_	Mod	P	mM	dock	sut	Low	?	Side Bank Continuination Snow Coper	Cu:	775	- - - - - - - - - - - - - - - - - - -
													1
				•									7

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- MOSS MAT (MM) NTS

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924/1E; 92K/4W

CREEK

SAMPLE			DRAIN AGE		TYPE OF	COLOUR	TEXTURE		PETROLOGY OF BEDROCK	ADDITIONAL OBSERVATIONS OR REMARKS		A:	SSAYS]
90104	Width 3	Depth	Heep	6V		Dark	Let	MATERIAL	AND/ORFLOAT	Possible bille bank contamination;			1,15	1380	ant
10704			114	_UK _		grey		77191	4165, 01208	luck in flood and your on		1		7.0	1, ,
										ground.	II	<u> 62</u>	L4=	350	
		 	<u></u> :								Hg	2000 MPb	Pb=	: 40	rpn
90/05	3	/_	Heep	4	mM	Grus	bankly	Mod	The; btz bx	From edge of creek at base of			Au=	1490	ppt
		ļ				brown			,	falls; abundant 9/3 sulfide			A4 =	9	ppn
	ļ							· ·						400	
										l '	Hg		Pb=	48	ppv
										and 100°/45°N		Mpp			
90/06	3	/	Stap	4	MM	Dark	Sith	Mod	4 /2K; 65, bx	Abundant sulfides in 1/2			Au=	1200	PPI
·			/	•		Dark				and andesite brecin				5.9	
								Mark - 11	<u> </u>	country rock - "bleached"	As			360	
		<u> </u>		· · · · · · · · · · · · · · · · · · ·							Hy	=/90	oPb	38	PPN
			1 /		4.4		//	.AΛ ,	611	11 4 11		76	06	-24	
90/07	1.8	.2	Mod	4	_WIM	gruf	SILTY	Mod	UPZK	Ankerite attention - boulders			702	- dy	
90/08								Aigh		Andesite dyke in o.c.			Pb	34	Mpr.
								,		,					j

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DATE	1990	PROJECT	SORT CEATINIS	

NTS 924/1E; 92K/4W

		T										
SAMPLE		ROCK		D	ESCRIPTIO	N		ADDITIONAL OBSERVATIONS		ASS	SAYS	
NO.	LOCATION	TYPE	Sample Type	APPARENT TRUE	Alteration	Freshness	Mineralization	OR REMARKS				
26307	AB-84	182K,	Float-	0.3 0.3	Ankerite.	Fresh	Py, As,	Float bailders, quanty	Au=	3230	ppb	5.34 91
		pb	brob		guartz,	~	Сру.	1 , , , , , , , , , , , , , , , , , , ,	As=			
·					Carbonat				Cu=		1 1	
								Volcanie hostrock;				
								Float semi-angular, man				ļ
								boura				
26308	AB-85	URK,	Float-	0.41	Anarit	~	Ry, cpy	Float - Gulfich vich	Au=	5260	ppb	4.89 91
		pb	Grab		chlorite		, , ,	Volcanie brecia, suttales				
					epidote	: 		in Matux and as coule	lu=	410	AM	
				/				vounded fragment, barren	Hy=	1300	طوط	
								gtz vein cutting sulfiles	,			
26310	AB-87	JRK,	Float-	111	Chlorite	V	Py, Gpy	VM5? toye sulfide Float,	Au-	436	0 44	4539
		p b	brab		Anferite			Crude layering, large	11	ł		
•								Rubble Boulders near or	Hyz	2700	096	
								in - place - bracktypied of	Wal	weh		
26313	AB-90	4 12 K	Channel,	0.5M	Ankerite	V	Py.	Ankrite - quartz breceia	Aus	650	app	
		pb	chip		chlorite			in suffice who attend				
					Prophylitic			host-rock				
					. ' /							

SORT CLAIMS

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NTS 924/1E; 92K/4W

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DATE 1990

SAMPLER

											
SAMPLE	. OCATION	ROCK		D	ESCRIPTIO	N		ADDITIONAL OBSERVATIONS		ASSAYS	
NO.	LOCATION	TYPE	Sample Type	APPARENT WIDTH TRUE WIDTH	Alteration	Freshness	Mineralization	OR REMARKS			
26319	AB-95	VZK-	O.C. grab		limonita	Weathered	Py Zn	Relow Rushy o.c. area,	Cu=	22-	em (
		Volcanvelay	,			,	(sphaleite)			1	
							(galena)	Sample Representative	PB= :	5400 1	am (·
·								A Rock Type.	56= :	5.6 pp	101
						·		0 !		300 A	ار ا
					·						
26323	AB-100	Fek-	Float-	-25 Argular	ankeritie	Not	CpPy	BUARTS Carbonate Braccia,	Au= -	109/16	2.03/
		pb-bx	Grub		Aughy litic	Weatherst	As Ay	Pyrite (+ other sultides)	Ay= 3	545 pH (15.90
######################################							(argentite)	layared with silica	Cu=	1.22%	
-								and attered wallrock-	A5=1	two sp.	1
								54/files as mtx. of baccia.	Hy=>	- 10,000	0,06
								0	Pb= 4	1900 1900	n (·\$
									56=1	16.8 P	pm
										_	
26324	AB-101	Fek-	Float-	Angular	ankeritie	/	Cpy Py	Quarty carbonate brecera	Au=	101.55/6	2.96
		pb - bx	Grab		Prophylitic		As Ay	and veins, desiminated	Ay = 4	123 8/40	12.39
					(ch/cite			selfdes flooding utalwek,	Cu= c	2.6%	_
					eprdote)			Sulfide " fragments" in brecon	Hg=	34001	06
									5/5= 2	1.6 pp	'111
									P6=	.05%	

1	į	i	1	1	j	1	j	1	1	- C	• • • • • • • • • • • • • • • • • • • •	 1	
	ESOURCES			CHEMICA								•	

EXPLORATION DI . ON

10		NTS 924/1E; 92K/4W
SAMPLER AUB	PROJECT SORT CARIMS	LINE
DATE 1990		AIR PHOTO NO.

7/10							AIR PROTONO.					
SAMPLE	LOCATION	ROCK		D	ESCRIPTIO	N		ADDITIONAL OBSERVATIONS		ASSA	YS	
NO.		TYPE	Sample Type	WIDTH TRUE	Alteration	Freshness	Mineralization	OR REMARKS			1]
26325	AB-102	Channel-	VIZK;		Chlorite		Ry; cpy	FLOTWALL GLANT LEW #1	Au=	3410	pps	
		Chip	bfz, bx		"gouge";			@ 025/-80E		17.5	- 1	
					Calcita			Sharp F.W. contact	Cu=	1	- 4	
									H4=	12,00	Mpb	
26326	AB-103		utek;	·2m	Chlorita	✓·	Py = 5%	Fortwell Quents Vein #2	Au-	1990	spm	
		Chip	6fz, bx		'gouge';			C 020°/stup	A4=	18.2	apar	,
					ankerite	· · · · · · · · · · · · · · · · · · ·		Bundel and Ivackke brown	H4=	230	7/2	8
									Zn=	225	epn	1
			,				,					
26327	AB-104		Channel-	•3m	Calcite	. <i>v</i>	Heavy	Broken rubble-ground	Au=	1760	170	
		652,6x	Chip		15-20%		local py	brecera zone - some	II . I			
							710%	rounded sulfide fragment	Cu=	50/	an ((.05%)
									Hg-		l i	<u>'</u>
									Pb=	160 %	pm	
										1921		
26328	AB-105		Channel	.5m	Chelorite	<u> </u>	1 '	Main quantz wein to Son Tw.	11 1			1
	<u> </u>	6f2, 6x	chip				Gpg 1-2%		Ay=			
						· · · · · · · · · · · · · · · · · · · 		Loxiomo 9ts, bunded	11 . 1			(.05%)
		-						5ulsides	Hg=,			
									Pb=	1140	m (.04%)

EXPLORATION DIV JON

SAMPLER	AoB	PROJECT SORT CLAIMS	
	_		

NTS 924/E; 92K/4W

1990 DATE AIR PHOTO NO. ROCK DESCRIPTION **ASSAYS** SAMPLE ADDITIONAL OBSERVATIONS LOCATION NO. TYPE OR REMARKS Altération Freshness Sample Type Mineralization 26329 AB-106 UTRK; Sulfide HW. Zone - Stringer type Hy = 750 btz bx angelized local barder in character 1752 rom 54/tides P4 L15% Cpy. Fault 020/-60°W 48-110 Fine Sulfides URK: Low ankivite 26333 94art3 (arsenopyrite) Hg = 6000 ppt Carbonate AB-111 472K; VM53 Type Minicalization A5=116 ppm 26334 1.0 m Coarse couchy log and Hg= 610 pp guartz to 50%; py and altered to look 5b = 9.6 pm Carponete by flashing Stibnite? 26337 AB-114 4 TZK; liminite; Dy + Marcaite Lysty Weathering dark argillite: by 85 pps Mod. Tulfaceous unit? Pulsic? avsillit? time designations Cu= 0.5 % UKK; 1.0 m averite AB-109 thear zone, chlorote 26332 F-ddo alteration, Py Flooding Ag= Chip

ARNEX	SOURCES	LTD.
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1990

SAMPLER

DATE

GEOCHEMICAL DATA SHEET - ROCK CHIP SAMPLING

EXPLORATION DI DN

NTS	92 L/IE	ز	92K/4W
LINE			·

PROJECT SORT CLAIMS

SAMPLE	LOCATION	ROCK		D	ESCRIPTIO	N		ADDITIONAL OBSERVATIONS		ASS	AYS	
NO.	·	TYPE	Sample Type	APPARENT WIDTH TRUE WIDTH	Alteration	Freshness	Mineralization	OR REMARKS				
26339	Ab-115		Channel,	0.25	Chlorite,		Py, Cpy,	JM53 type Miniculization,	Ay.	23.9	9/8	
		4EK;	chip		pyrite		Fine dark	Crude lay eving of sultiles Otz - carmate veining				
		bfz, bx					44/Fides,	Otz-carrenate veining	Cu=	103	%	ļ
							Sulfides to	50% Cross-Cutting	Fe=	1	1	
							locally.	Sulfide band.				
												_
26344	AB-118	l '' l	Channel,	0.3 M		-	Fine grainer	brecerated attered wallrock,	A42	33.2	glt	ļ
		pb and	chip				py 2 10%	brecciated attered utilizet,	Ag=	96.0	9 /t	
		4 /2 K:						quartz - sulfide veins	Cu=	0.14	of	
		6f, 6x				· · · · · · · · · · · · · · · · · · ·		Cross-cuting suride zone			 	
		Contact-300	ر 		-							
26345	AB-119	utzk;		0.5m	ankerite	V	Py, Epy	Quartz - carbonate Vein,	Au=	0.1	9/t	
		bfibr.	Chip		chlorite		fine arzeno	Vein breccia; sulfide		40		
					exidote		and Aibnite	"flooding" of wall weck.	Cai			
,							·		As	46 m	stas	saged
												
								-				
					-							ļ
]		

ARNEX LLSOURCES L	TD.
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EXPLORATION DI

NTS	92 L	110	92K	14	W
		/			

LINE

AIR PHOTO NO.

DATE 1990

PROJECT SORT CLAIMS

DATE								AIR PROTO NO.				
SAMPLE	LOCATION	ROCK		D E	SCRIPTIO	N		ADDITIONAL OBSERVATIONS		ASS	AYS	
NO.	200711011	TYPE	Sample Type	WIDTH TRUE	Alteration	Freshness	Mineralization	OR REMARKS				
26346	Ab-120	4/2 K;	channel,	1.00	chlorite		Py. Lpy,	VMG ztype sulfiles-	Au=	11.6	9/t	
		bfi, bx	chip					Crudely banded, 541/files		10.0		
								to 40%, by-Cpy and				
		Anderite						a phalerite banding discrete,	Zn=	8.42	%	
		(chloritic)						late stage gtz vein				
		,					Cutting sulfides;					
								buttide zone covered by				
							×	bank debris and width				-
								of zone not determined.				
						·						
26347	AB-121		channel,	0.5m				As about; continuous	An=	5.04	g/t	
			Chip					1.5 m T.W. Zone	Ay=	5.5	9/4	
			·			**			2n=	0.37	%	
	 											
,												
												
								·				
								•				
						<u></u>						

APPENDIX IV

CERTIFICATES OF ANALYSIS, ANALYTICAL PROCEDURES



Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To : ARNEX RESOURCES LIMITED

4005 BROCKTON CR. N.VANCOUVER, BC V7G 1E5

Project : SORT

Comments: CC: ARNE BIRKELAND

Tot. Pa. ..'1

Pate :07-FEB-90

Provice #:1-9010747

P.O. # :NONE

.

CERTIFICATE OF ANALYSIS A9010747

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb	Cu ppm	Mo ppm	Pb ppm		Ag ppm Aqua R	As ppm	Sb ppm	
9003 9006 9015	214 214 214	2 7 3 3 1 2	156 141 144	2 1 1	69 23 128	380 180 360	0 · 9 0 · 4 0 · 6	75 19 59	1 · 0 1 · 2 1 · 2	
	1									
	:									
	: :									
	į						:		 	
	:									

CERTIFICATION: Taut Sichler



Analytical Chemists * Geochemists • Registered Assayer

212 BROOKSBANK AVE , NORTH VANCOUVER, BRITISH COLUMBIA, CANADA V7.J-2C1

PHONE (604) 984-0221

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR. N.VANCOUVER, BC V7G 1E5

A9010747

Comments: CC: ARNE BIRKELAND

CERTIFICATE A9010747

ARNEX RESOURCES LIMITED

PROJECT : SORT P.O.# : NONE

Samples submitted to our lab in Vancouver, BC. This report was printed on 8-FEB-90.

SAMPLE PREPARATION

CODE	NUMBER SAMPLES		I	ESC	CRIPTION
2 1 4	3	Received	sample	26	pulp
	İ				
	!				

ANALYTICAL PROCEDURES

CHEMEX	NUMBER SAMPLES			DESC	RIPTION	٧	METHOD	DETECTION LIMIT	UPPER LIMIT
101	3	Au	ppb:	Fuse 10 g	sample		FA-NAA	1	10000
2	3	Cu	ppm:	HNO3-aqua	regia	digest	AAS	1	10000
3	3	Мо	ppm:	HNO3-aqua	regia	digest	AAS	1	1000
4	3	Pb	ppm:	HNO3-aqua	геgia	digest	AAS-BKGD CORR	1	10000
5	3	Zn	ppm:	HNO3-aqua	regia	digest	AAS	1	10000
6	3	Ag	ppm:	HNO3-aqua	геgia	digest	AAS-BKGD CORR	0.2	100.0
1 3	3	Aε	ppm:	HNO3-aqua	regia	digest	AAS-HYDRIDE/EDL	1	10000
2 2	3	Sb	ppm:	HC1-KC1O3	digest.	extrac	AAS-BKGD CORR	0.2	1000



Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR. N.VANCOUVER, BC V7G 1E5

FILE COP Yage Number: 1
Fotal Pages: 1
Invoice Date: 26-JUN-90
Invoice No.: I-9016996
P.O. Number: NONE

Project : SORT Comments: ATTN: A.O. BIRKELAND

								CERTIFICATE OF ANALYSIS A9016996							
SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	As ppm	Bi ppm	Co ppm	Cu ppm	Fe %	Min ppm	Mo ppm	Ni ppm	Pb ppm	Sb ppm	Zn ppm	
8909 8910 8911 8912 9001	201 23 201 23 201 23 201 23 201 23	5 8 < 5 8 15	0.2 0.9 1.0 0.6 0.4	6 10 6 46 30	0.5 0.4 0.5 0.4 0.4	23 16 43 25 26	172 113 87 164 202	4.92 3.22 2.44 4.79 6.29	2880 1905 3790 2640 1320	< 1 < 1 1 1 < 1	38 27 27 37 57	16 20 72 54 46	< 0.2 < 0.2 < 0.2 < 0.2 0.2	152 190 420 230 184	
9002 9004 9005 9006 9007	201 23 201 23 201 23 201 23 201 23	3 10 3 10	0.4 0.2 < 0.2 0.3 0.3	12 12 10 15 8	0.4 0.3 0.1 0.1 0.4	20 25 24 27 8	118 209 168 155 124	4.59 5.95 5.57 5.61 1.55	1765 1175 860 1600 2980	< 1 < 1 < 1 < 1 < 1	35 56 53 48 18	8 10 6 12 8	1.0 1.0 1.0 1.2 0.2	98 100 90 136 188	
9008 9009 9010 9011 9012	201 23 201 23 201 23 201 23 201 23	8 < 5 8 < 5 8 < 5	2.6 0.2 < 0.2 < 0.2 < 0.2	30 7 6 5 4	0.4 0.3 0.3 0.3 0.4	27 10 11 8 16	294 74 96 68 108	6.38 2.04 2.53 1.90 4.28	2090 1230 1575 1080 1650	< 1 < 1 < 1 < 1	41 17 21 16 29	30 6 6 2 4	0.4 < 0.2 < 0.2 < 0.2 < 0.2	114 46 54 38 68	
9013 9014 NO NUMBER	201 23 201 23 201 23	8 15	0.2	3 23 25	0.3	12 24 24	90 160 173	3.00 5.84 5.60	1820 1520 1650	< 1 < 1 < 1	22 53 52	4 76 72	< 0.2 0.8 0.4	52 172 188	

CERTIFICATION:



Analytical Chemists * Geochemists * Registered Assayers 212 Brooksbank Ave., North Vancouver

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR. N.VANCOUVER, BC V7G 1E5

A9016996

Comments: ATTN: A.O. BIRKELAND

CERTIFICATE

A9016996

ARNEX RESOURCES LIMITED

Project: P.O. # : SORT NONE

Samples submitted to our lab in Vancouver, BC. This report was printed on 26-JUN-90.

	SAMPLE PREPARATION									
	NUMBER SAMPLES	DESCRIPTION								
201 238 287	18 18 18	Dry, sieve to -80 mesh NITRIC-AQUA REGIA DIGESTION Special dig'n with organic ext'n								

ANALYTICAL PROCEDURES

		ANALITICALI	HOOLDONES		
CHEMEX	NUMBER SAMPLES		METHOD	DETECTION LIMIT	UPPER LIMIT
983 6 13 23 1929 1931 1932 1938 1940 1004 22 1950	18 18 18 18 18 18 18 18 18	Au ppb: Fuse 30 g sample Ag ppm: HN03-aqua regia digest Bi ppm: HC1-KC103 digest, extrac Co ppm: 9 element, soil & rock Cu ppm: 9 element, soil & rock Fe %: 9 element, soil & rock Mn ppm: 9 element, soil & rock Ni ppm: 9 element, soil & rock Pb ppm: 9 element, soil & rock	FA-AAS AAS-BKGD CORR AAS-BKGD CORR ICP-AES	5 0.2 1 0.1 1 1 0.01 5 1 1 5 0.2 2	10000 100.0 10000 10000 10000 10000 10000 10000 10000



Analytical Chemists *Geochemists *Registered Assayers 212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR. N.VANCOUVER, BC V7G 1E5 Page Number Total Pages:

Page Number : 1 Total Pages : 1 Invoice Date: 2-AUG-90 Invoice No. : I-9018930 P.O. Number :

Project: SORT

Comments: ATTN: ARNE BIRKELAND

('LD	'	ANALYSIS	A9018930
CERTIE	MILVE	ANAL DOO	Mauloadu

September Sept	SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	As ppm	Bi ppm		Cd ppm	Hg ppb	Mo ppm	Pb ppm	Sb	Se ppm	Zn ppm	
9024 201 238 30 0.5 10 < 0.1 144 0.1 200 2 10 0.8 < 0.2 78 1902 5 201 238 1230 5.1 56 0.1 350 0.5 1900 2 40 1.6 < 0.2 120 1902 5 201 238 < 5 0.3 2 < 0.1 126 0.2 210 1 10 0.4 < 0.2 54 1902 1 10 0.4 < 0.2 54 1902 1 10 0.4 < 0.2 54 1902 1 10 0.4 < 0.2 54 1902 1 10 0.4 < 0.2 54 1902 1 10 0.4 < 0.2 54 1902 1 10 0.4 < 0.2 < 0.2 110 0.4 < 0.2 54 1902 1 10 0.4 < 0.2 54 1902 1 10 0.4 < 0.2 < 0.2 110 0.4 < 0.2 < 0.2 110 0.4 < 0.2 < 0.2 110 0.4 < 0.2 < 0.2 110 0.4 < 0.2 < 0.2 110 0.4 < 0.2 < 0.2 110 0.4 < 0.2 < 0.2 110 0.4 < 0.2 < 0.2 110 0.4 < 0.2 < 0.2 110 0.4 < 0.2 < 0.2 110 0.4 < 0.2 < 0.2 < 0.2 110 0.4 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2 <	9020 9021 9022	201 238 201 238	65 490	0.3 0.4 0.3	12 6 10	0.5	210 78 66	0.2 < 0.2 0.4	630 80 90	< 1 1 1	6 2 4	0.6 0.4 0.4	< 0.2 < 0.2 < 0.2	150 100 110	
	9025 9026	201 238 201 238 201 238	30 1230	5.1 0.3	56	0.1	350 126	0.2	1900 210	2 2 1 2 2	40 10	1.6 0.4	< 0.2 < 0.2	120 54	

CERTIFICATION: HartBuchler



Analytical Chemists * Geochemists * Registered Assayers 212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR. N.VANCOUVER, BC V7G 1E5

A9018930

Comments: ATTN: ARNE BIRKELAND

CERTIFICATE

A9018930

ARNEX RESOURCES LIMITED

Project: P.O. # : SORT

Samples submitted to our lab in Vancouver, BC. This report was printed on 2-AUG-90.

	SAMPLE PREPARATION									
CHEMEX	NUMBER SAMPLES	. DESCRIPTION								
201 238 287	9 9 9	Dry, sieve to -80 mesh NITRIC-AQUA REGIA DIGESTION Special dig'n with organic ext'n								

ANALY	TIC	AL	PR	٥C	EDI	JRES
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6 9 Ag ppm: HNO3-aqua regia digest AAS-BKGD CORR 0.2 100.0 13 9 As ppm: HNO3-aqua regia digest AAS-HYDRIDE/EDL 1 10000 23 9 Bi ppm: HC1-KC103 digest, extrac AAS-BKGD CORR 0.1 1000 2 9 Cu ppm: HNO3-aqua regia digest AAS 1 10000 2 9 Cd ppm: HNO3-aqua regia digest AAS 1 10000 2 9 Hg ppb: HNO3-aqua regia digest AAS-BKGD CORR 0.1 200 20 9 Hg ppb: HNO3-aqua regia digest AAS-FLAMELESS 10 100000 3 9 Mo ppm: HNO3-aqua regia digest AAS 1 10000 2 100000 2 9 Pb ppm: HNO3-aqua regia digest AAS-BKGD CORR 1 10000 2 10000 2 10000 2 10000 2 10000 2 10000 2 10000 2 10000 2 10000 2 10000 2 10000 2 10000 2 10000 2 10000 2 10000 2 10000 2 10000 2 100000 2 100000 2 100000 2 100000 2 100000 2 100000 2 100000 2 100000000	CHEMEX NUMBE SAMPLE		METHOD		UPPER LIMIT
	100 9 6 9 13 9 23 9 2 9 7 9 20 9 3 9 4 9 22 9 16 9	Au ppb: Fuse 10 g sample Ag ppm: HNO3-aqua regia digest As ppm: HNO3-aqua regia digest Bi ppm: HC1-KC103 digest, extrac Cu ppm: HNO3-aqua regia digest Cd ppm: HNO3-aqua regia digest Hg ppb: HNO3-HC1 digestion Mo ppm: HNO3-aqua regia digest Pb ppm: HNO3-aqua regia digest Sb ppm: HC1-KC103 digest, extrac Se ppm: HC1-KC103 digest, ext	FA-AAS AAS-BKGD CORR AAS-HYDRIDE/EDL AAS-BKGD CORR AAS-BKGD CORR AAS-FLAMELESS AAS AAS-BKGD CORR AAS-BKGD CORR AAS-BKGD CORR AAS-BKGD CORR	5 0.2 1 0.1 1 0.1 10 1 0.2	10000 100.0 10000 10000 200 10000 10000 10000 10000



Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR. N.VANCOUVER, BC V7G 1E5

Page Nui. :1 Total Pages : 1 Invoice Date: 25-JUL-90 Invoice No. : I-9018931 P.O. Number :

Project: SORT Comments: ATTN: ARNE BIRKELAND

								CERTII	FICATE	OF AN	ALYSIS	<i>-</i>	4901893	81	
SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	As ppm	Bi ppm	Cu ppm	Cd ppm	Hg ppb	Mo ppm	ppm Pb	Sb ppm	Se ppm	Zn ppm		
26307 26308 26309	205 294 205 294 205 294	3230 5260 40	6.3 13.4 0.5	112 50 8	0.7 0.4 0.2	530 410 86	< 0.1 < 0.1 0.4	60 1300 50	2 2 8	4 5 2	1.0 1.2 1.6	< 0.2 < 0.2 6.6	36 70 46		
								,							

CERTIFICATION:



Analytical Chemists * Geochemists * Registered Assayers 212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR. N.VANCOUVER, BC V7G 1E5

A9018931

Comments: ATTN: ARNE BIRKELAND

CERTIFICATE

A9018931

ARNEX RESOURCES LIMITED

Project: P.O. #:

SORT

Samples submitted to our lab in Vancouver, BC. This report was printed on 25-JUL-90.

	SAMPLE PREPARATION									
CHEMEX	NUMBER SAMPLES	DESCRIPTION								
205 294 238 287	3 3 3 3	Geochem ring to approx 150 mesh Crush and split (0-10 pounds) NITRIC-AQUA REGIA DIGESTION Special dig'n with organic ext'n								

		·					
			AN	IALYTICAL P	ROCEDURES		
CHEMEX CODE	NUMBER SAMPLES		DES	CRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100 6 13 23 2 7 20 3 4 22 16 5	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Au ppb: Ag ppm: As ppm: Bi ppm: Cu ppm: Cd ppm: Hg ppb: Mo ppm: Pb ppm: Sb ppm: Se ppm:	Fuse 10 g HN03-aqua HN03-aqua HC1-KC103 HN03-aqua HN03-aqua HN03-aqua HN03-aqua HN03-aqua HC1-KC103	sample regia digest regia digest digest, extrac regia digest regia digest	FA-AAS AAS-BKGD CORR AAS-HYDRIDE/EDL AAS-BKGD CORR AAS AAS-BKGD CORR AAS-FLAMELESS AAS AAS-BKGD CORR	5 0.2 1 0.1 1 0.1 10 1 0.2 0.2	10000 100.0 10000 10000 10000 10000 10000 10000



Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR. N.VANCOUVER, BC V7G 1E5

Page Numer: 1 Total Pages: 1 Invoice Date: 2-AUG-90 Invoice No.: I-9019852 P.O. Number:

Project : Comments: SORT

CERTIFICATE OF ANALYSIS	A9019852

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	As ppm	Bi ppm		Cd ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm	
26310 26311 26312 26313	212 294 212 294 212 294 212 294	4360 30 10 650	4.0 < 0.2 0.2 2.0	17 23 30 5	1.0 0.5 0.5 0.5	370 88 100 70	< 0.1 < 0.1 < 0.1 < 0.1	2700 50 50 330	2 3 2 1	5 6 7 16	0.8 0.2 2.2 0.4	< 0.2 < 0.2 < 0.2 < 0.2	46 40 104 88	
26313	212 254	030												
	:													
						; ;								
	CERTIFICATION: Journal of the Control of the Contro													



Analytical Chemists * Geochemists * Registered Assayers 212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR. N.VANCOUVER, BC V7G 1E5

A9019852

Comments:

CERTIFICATE

A9019852

ARNEX RESOURCES LIMITED

Project: P.O. # : SORT

Samples submitted to our lab in Vancouver, BC. This report was printed on 2-AUG-90.

	SAMPLE PREPARATION							
CHEMEX	NUMBER SAMPLES	DESCRIPTION						
212 294 238 287	4 4 4 4	Geochem pulv, screen -150, roll Crush and split (0-10 pounds) NITRIC-AQUA REGIA DIGESTION Special dig'n with organic ext'n						

CHEMEX NUMBER		DECODINE	METHOD	DETECTION	UPPER
CODE SAMPLES		DESCRIPTION	METHOD	LIMIT	LIMIT
100 4	Au mah i Free	a 10 g sample	FA-AAS	5	10000
6 4		3-aqua regia digest	AAS-BKGD CORR	0.2	100.0
13 4		B-aqua regia digest	AAS-HYDRIDE/EDL	1	10000
23 4	Bi ppm: HC1-	-KClO3 digest, extrac	AAS-BKGD CORR	0.1	1000
2 4	Cu ppm: HNO3	-aqua regia digest	AAS	1	10000
7 4	Cd ppm: HNO3	B-aqua regia digest	AAS-BKGD CORR	0.1	200
20 4	Hg ppb: HNO3	-HCl digestion	AAS-FLAMELESS	10	100000
3 4		-aqua regia digest	AAS	1	1000
4 4	Pb ppm: HNO3	3-aqua regia digest	AAS-BKGD CORR	1	10000 1000
22 4 16 4	SD ppm: HC1-	-KC103 digest, extrac -KC103 digest, ext	AAS-BKGD CORR AAS-BKGD CORR	0.2 0.2	100.0
5 4		R-aqua regia digest	AAS	1	10000



SAMPLE

DESCRIPTION

9028

9029

9030

9031

9032 9033

9034

9035 9036

Chemex Labs Ltd.

Bi

ppm

<

<

<

<

2

8

8

5

2

60 15

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Ag ppm

Aqua R

< 0.2

< 0.2

< 0.2

< 0.2

< 0.2

< 0.2

< 0.2

5.4

0.3

As

ppm

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221

Au ppb

< 5

< 5

< 5

< 5

< 5

< 5

< 5

20

1100

FA+ÂÂ

PREP

CODE

201 202

201 202

201 202

201 202

201 202

201 202

201 202

201 202

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					CERTI	FICATE	OF AN	ALYSIS		1901985	53	
	Cu ppm		Cd ppm		Hg PPb	Mo ppm	Pb ppm	Sb	Se ppm	Zn ppm		
0.1 0.1 0.1 0.1		120 100 200 140 144	\ \ \ \	0.1 0.1 0.1 0.1	60 50 50 70 80	2 1 1 1 1	2 < 1 2 9 10	< 0.2 < 0.2 0.2 0.8 0.4	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	110 90 130 92 120		
0.1 0.1 0.1 0.1		146 174 390 184	< <	0.1 0.7 0.3	150 80 1200 150	< 1 1 2	35 3 32 19	< 0.2 0.2 1.0 1.2	< 0.2 < 0.2 < 0.2 < 0.2	100 94 130 120		
								:				

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Comments:

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Project: P.O. #: SORT

Samples submitted to our lab in Vancouver, BC. This report was printed on 2-AUG-90.

	SAMPLE PREPARATION								
CHEMEX	NUMBER SAMPLES	DESCRIPTION							
201 202 238 287	9 9 9 9	Dry, sieve to -80 mesh save reject NITRIC-AQUA REGIA DIGESTION Special dig'n with organic ext'n							

ANAL	YTICAL	PROCEE	URES

			ANALITIOALI			
CHEMEX	NUMBER SAMPLES		DESCRIPTION	METHOD	DETECTION LIMIT	UPPE! LIMN
100 6 13 23 2 7 20 3 4 22 16 5	9999999999	Ag ppm: As ppm: Bi ppm: Cu ppm: Cd ppm: Hg ppb: Mo ppm: Pb ppm: Sb ppm: Se ppm:	Fuse 10 g sample HN03-aqua regia digest HN03-aqua regia digest HC1-KC103 digest, extrac HN03-aqua regia digest HC1-KC103 digest, extrac HC1-KC103 digest, ext HN03-aqua regia digest	FA-AAS AAS-BKGD CORR AAS-HYDRIDE/EDL AAS-BKGD CORR AAS-BKGD CORR AAS-FLAMELESS AAS AAS-BKGD CORR AAS-BKGD CORR AAS-BKGD CORR AAS-BKGD CORR AAS-BKGD CORR	5 0.2 1 0.1 1 0.1 10 1 0.2 0.2	10000 100.0 10000 10000 200 100000 10000 10000 10000
				· .	·	



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Project: SORT Comments:

CERTIFICATE OF ANALYSIS A90	23980
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SAMPLE DESCRIPTION	PREP	Au ppb FA+AA	Au FA oz/T	Ag ppm Aqua R	As ppm	Bi ppm	Cu ppm	Cd ppm	Hg ppb	Mo ppm	ppm Pb	Sb ppm	Se ppm	Zn ppm	
26314 26315 26316 26317 26318	205 294 205 294 205 294 205 294 205 294	10 20 20 25 10		0.3 0.3 0.4 0.3 1.9	70 100 210 34 212	0.1 < 0.1 < 0.1 0.4 0.2	64 18 14 108 270	0.7 0.1 < 0.1 < 0.1 13.6	50 30 40 40 140	< 1 < 1 < 1 < 1 < 1	54 40 26 38 1200	1.6 1.6 1.4 1.2 25.0	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	102 35 32 68 2050	
26319 26320 26322 26323 26324	205 294 205 294 205 294 205 294 205 294	50 5 < 5 >10000 >10000	2.008	4.9 0.3 < 0.2 >100.0 >100.0	80 10 14 400 220	0.2 < 0.1 < 0.1 3.2 10.0	225 78 126 >10000 >10000	18.8 1.0 0.3 1.0	170 40 30 >100000 34000	7 2 4 < 1 < 1	5400 380 116 4900 200	5.6 0.8 0.4 16.8 4.6	2.0 0.6 0.6 1.8 0.8	3000 260 74 50 73	
26325 26326 26327 26328 26329	205 294 205 294 205 294 205 294 205 294	3410 1990 1760 2670 750		17.5 18.2 8.1 10.0 1.4	30 172 440 170 70	0.4 0.1 1.4 2.0 0.2	1300 240 560 575 1750	0.2 0.7 0.1 0.3 0.1	12000 2300 2700 2900 420	< 1 9 30 40 3	42 40 160 114 28	1.0 1.6 2.6 2.6 2.0	< 0.2 0.2 0.8 0.6 0.2	58 255 192 160 205	
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Comments:

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Project: P.O. # : SORT

Samples submitted to our lab in Vancouver, BC. This report was printed on 10-OCT-90.

SAMPLE PREPARATION					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION			
205 294 287 238	15 15 15 15	Geochem ring to approx 150 mesh Crush and split (0-10 pounds) Special dig'n with organic ext'n NITRIC-AQUA REGIA DIGESTION			

ANALYTICAL PI	ROCEDURES
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	ANALTHOAL PHOCEDONES											
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT							
100 396 6 13 23 2 7 20 3 4 22 16	15 2 15 15 15 15 15 15 15 15 15	Au ppb: Fuse 10 g sample Au oz/T: 1/2 assay ton Ag ppm: HNO3-aqua regia digest As ppm: HNO3-aqua regia digest Bi ppm: HC1-KC103 digest, extrac Cu ppm: HNO3-aqua regia digest Cd ppm: HNO3-aqua regia digest Hg ppb: HNO3-HC1 digestion Mo ppm: HNO3-aqua regia digest Pb ppm: HNO3-aqua regia digest Sb ppm: HC1-KC103 digest, extrac Se ppm: HC1-KC103 digest, ext Zn ppm: HNO3-aqua regia digest	FA-AAS FA-GRAVIMETRIC AAS-BKGD CORR AAS-BKGD CORR AAS AAS-BKGD CORR AAS-BKGD CORR AAS-FLAMELESS AAS AAS-BKGD CORR	5 0.003 0.2 1 0.1 1 0.1 10 1 0.2 0.2	10000 20.000 100.0 10000 10000 200 10000 10000 10000 10000 100.0							



SAMPLE

DESCRIPTION

26319

26323

26324

26326

26327

26328

26329

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers 212 Brooksbank Ave.. North Vancouver

Cu

0.01

1.22

2.62

0.01

0.05

0.05

0.14

용

Pb

0.52

0.50

0.05

0.02

0.03

0.04

0.02

Zn

0.25

< 0.01

< 0.01

< 0.01

< 0.01

< 0.01

< 0.01

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221

PREP

CODE

299

299

299

299

299

299

299

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Project: P.O. #:

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Samples submitted to our lab in Vancouver, BC. This report was printed on 8-OCT-90.

	SAMPLE PREPARATION									
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION								
299	7	Sample split from other certif								

	Comments.											
	ANALYTICAL PROCEDURES											
CHEMEX	NUMBER SAMPLES		DE	ESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT					
301 312 316	7 7 7	Cu % Pb % Zn %	: HClO4-HNO3 : HClO4-HNO3 : HClO4-HNO3	digestion digestion digestion	AAS AAS AAS	0.01 0.01 0.01	100.0 100.0 100.0					



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CERTIFICATI	E OF ANALYSIS	A9023982
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							CENTIFICATE OF ANALYSIS A9023902) <u></u>				
SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	As ppm	Bi ppm	Cu Ppm	ppm Cd	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm		
9037 9038 9039 9040 9041	201 238 201 238 201 238 201 238 201 238 201 238	380 < 5 < 5 < 5 < 5	0.2 < 0.2 < 0.2 0.3 0.2	13 16 5 28 6	0.4 0.2 < 0.1 0.1	180 240 92 130 130	0.5 0.2 0.3 1.2 0.6	100 100 100 310 120	< 1 < 1 < 1 < 1 < 1	14 6 6 18 16	0.4 0.2 < 0.2 1.0 < 0.2	0.2 0.6 0.6 0.8 1.2	170 114 100 190 132		
9042 9043 9044 9045 9046	201 238 201 238 201 238 201 238 201 238	25 5 < 5 < 5 < 5	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	6 3 6 8 9	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	76 84 68 68 106	0.2 < 0.1 0.2 0.2 0.3	70 40 50 60 50	1 <1 <1 <1 <1	4 1 1 2 2	0.2 0.2 0.2 < 0.2 0.2	0.4 0.2 0.2 < 0.2 < 0.2	108 60 86 98 78		
9047 9048 9049 9050 9051	201 238 201 238 201 238 201 238 201 238	< 5 < 5 < 5 < 5 < 5	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	3 4 2 2 2	< 0.1 < 0.1 < 0.1 0.1 < 0.1	56 148 66 34 20	0.4 0.1 < 0.1 < 0.1 < 0.1	80 40 40 60 40	< 1 < 1 < 1 1 6	4 1 < 1 < 1 < 1	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	< 0.2 0.2 < 0.2 < 0.2 < 0.2	124 64 38 44 42		
9052 9053 9054 9055 9056	201 238 201 238 201 238 201 238 201 238 201 238	< 5 < 5 < 5 1130 < 5	< 0.2 < 0.2 < 0.2 < 0.2 5.2 < 0.2	4 2 2 72 4	0.1 0.1 0.1 0.2 < 0.1	240 26 34 360 50	0.2 < 0.1 < 0.1 0.6 0.1	40 50 30 870 80	< 1 < 1 < 1 < 1	< 1 < 1 < 1 58 4	0.2 0.2 0.2 1.2 < 0.2	< 0.2 0.2 < 0.2 0.4 < 0.2	68 46 32 166 80		
9057 9058	201 238 201 238	< 5 < 5	0.2	3 3	< 0.1	94 76	0.2	180 90	< 1 < 1	< 1	< 0.2	0.4 0.6	74 68		

CERTIFICATION HOUTE PSICHLER



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ARNEX RESOURCES LIMITED

Project: P.O. #: SORT

Samples submitted to our lab in Vancouver, BC. This report was printed on 11-OCT-90.

	SAMPLE PREPARATION								
CHEMEX	NUMBER SAMPLES	DESCRIPTION							
201 238 287	22 22 22 22	Dry, sieve to -80 mesh NITRIC-AQUA REGIA DIGESTION Special dig'n with organic ext'n							

ANALY	TICAL	PRO	CEDU	JRES

		ANALITIOALI			
CHEMEX	NUMBER SAMPLES		METHOD	DETECTION LIMIT	UPPER LIMIT
100 6 13 23 7 20 3 4 22 16 5	22 22 22 22 22 22 22 22 22 22 22 22 22	Au ppb: Fuse 10 g sample Ag ppm: HNO3-aqua regia digest As ppm: HNO3-aqua regia digest Bi ppm: HC1-KC103 digest, extrac Cu ppm: HNO3-aqua regia digest Cd ppm: HNO3-aqua regia digest Hg ppb: HNO3-HC1 digestion Mo ppm: HNO3-aqua regia digest Pb ppm: HNO3-aqua regia digest Sb ppm: HC1-KC103 digest, extrac Se ppm: HC1-KC103 digest, ext Zn ppm: HNO3-aqua regia digest	FA-AAS AAS-BKGD CORR AAS-BKGD CORR AAS AAS-BKGD CORR AAS AAS-FLAMELESS AAS-BKGD CORR	5 0.2 1 0.1 1 0.1 10 2 0.2 0.2	10000 100.0 10000 10000 10000 10000 10000 10000 10000



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Total Pages: 1
Invoice Date: 23-OCT-90
Invoice No.: I-9025181
P.O. Number: NONE

Project : Comments: SORT

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										CERTII	FICATE	OF AN	ALYSIS	,	4902518	31	
SAMPLE DESCRIPTION	PRE COD		Au ppb FA+AA		As ppm			Cu ppm	Cd ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm		
26321 26330 26331 26333 26334	205 2	294 294 294	< 5 < 5 15 15	0.3 0.5 0.3 < 0.2 < 0.2		1 3 20 96 116	< 0.1 0.1 < 0.1 < 0.1 < 0.1	100 235 40 8 185	1.1 < 0.1 0.2 0.3 < 0.1	40 110 50 6000 610	17 2 2 1 < 1	12 6 2 1 4	0.6 0.8 0.6 2.4 9.6	1.4 3.4 < 0.2 < 0.2 < 0.2	74 33 59 45 51		
26335 26336 26337 26338 26341	205 2	294 294 294 294 294	25 25 85 5 < 5	< 0.2 < 0.2 0.8 < 0.2 < 0.2		38 38 276 3 3	< 0.1 < 0.1 < 0.1 < 0.1 0.2	86 103 114 196 60	< 0.1 < 0.2 0.4 < 0.1 < 0.1	80 100 290 50 30	< 1 1 10 < 1 < 1	18 20 2 5 4	4.2 4.0 3.0 0.8 0.2	< 0.2 < 0.2 0.2 < 0.2 < 0.2	130 55 28 85 67		
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												CEI	RTIFICATIO	105	e m	rible	كمر

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Comments:

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Project: P.O. #:

SORT NONE

Samples submitted to our lab in Vancouver, BC. This report was printed on 23-OCT-90.

	SAMPLE PREPARATION								
CHEMEX	NUMBER SAMPLES	DESCRIPTION							
205 294 238 287	10 10 10 10	Geochem ring to approx 150 mesh Crush and split (0-10 pounds) NITRIC-AQUA REGIA DIGESTION Special dig'n with organic ext'n							

	ANALYTICAL PROCEDURES										
	NUMBER SAMPLES		DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT					
100 6 13 23 2 7 20 3 4 22 16 5	10 10 10 10 10 10 10 10 10	Ag ppm: As ppm: Bi ppm: Cu ppm: Cd ppm: Hg ppb: Mo ppm: Pb ppm: Sb ppm: Se ppm:	Fuse 10 g sample HN03-aqua regia digest HN03-aqua regia digest HC1-RC103 digest, extrac HN03-aqua regia digest HN03-HC1 digestion HN03-aqua regia digest HN03-aqua regia digest HC1-RC103 digest, extrac HC1-RC103 digest, ext HN03-aqua regia digest	FA-AAS AAS-BKGD CORR AAS-BKGD CORR AAS-BKGD CORR AAS-BKGD CORR AAS-FLAMELESS AAS AAS-BKGD CORR AAS-BKGD CORR AAS-BKGD CORR AAS-BKGD CORR AAS-BKGD CORR AAS-BKGD CORR	5 0.2 1 0.1 1 0.1 1 0.2 0.2 1	10000 100.0 10000 10000 200 10000 10000 10000 10000 100.0					



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Invoice No.: I-9025176
P.O. Number: NONE

Project : Comments:

					ERTIFIC	ATE OF A	NALYSIS	A90	25176	
SAMPLE DESCRIPTION	PREE CODE		Ag FA g/tonne							
26307 26308 26310 26323 26324	214 214 214 214 214	4.89 4.53 70.2	9.1 16.3 23.7 545.5 423.4							
26325 26326 26327 26328	214 214 214	3.09 1.85	26.4 23.5 14.7 15.6							

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A9025176

Comments:

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Project: P.O. #:

SORT NONE

Samples submitted to our lab in Vancouver, BC. This report was printed on 24-OCT-90.

SAMPLE PREPARATION													
NUMBER SAMPLES	DESCRIPTION												
9	Received sample as pulp												
	NUMBER SAMPLES												

				ANALYTIC	CAL PR	S						
CHEMEX CODE	NUMBER SAMPLES			DESCRIPTION		METHOD		DETECTION LIMIT	UPPEF LIMIT			
1297 384	9	Au g/to Ag g/to	onne: 2	assay ton		FIRE ASSAY FA-GRAVIMETR	ıc	0.03	1000 500.0			
				·		·						



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P.O. Number: NONE

Project : Comments: SORT

				_			CERTIFIC	ATE OF A	NALYSIS	A90	25178	
SAMPLE DESCRIPTION	PRE COD	EP Au I	FA Cu		Pb %	Zn %						
26332 26339	207 2 207 2	294 < (2)	3.9	0.55 L.03	0.01 0.01	0.08 0.01						
											:	
·												
										•		



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Project: P.O. # : SORT NONE

Samples submitted to our lab in Vancouver, BC. This report was printed on 23-OCT-90.

	SAMPLE PREPARATION													
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION												
207 294	2 2	Assay pulv, screen -150, roll Crush and split (0-10 pounds)												

		•	ANALYTICAL	. PROCEDURES		
CODE	NUMBER SAMPLES		DESCRIPTION	METHOD	DETECTION LIMIT	UPPEF LIMIT
1297 301 312 316	2 2 2 2 2	Au g/tonne: Cu %: HClO4 Pb %: HClO4 Zn %: HClO4	2 assay ton -HNO3 digestion -HNO3 digestion -HNO3 digestion	FIRE ASSAY AAS AAS AAS	0.03 0.01 0.01 0.01	1000 100.0 100.0 100.0



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Page Nun. Jr: 1-A
Total Pages: 1
Invoice Date: 23-OCT-90
Invoice No.: I-9025180
P.O. Number: NONE

Project : Comments: SORT

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	$\Delta \cap \cup$	ANAI YSIS	Δ9025180

	CERTIFICATE OF ANALYSIS						/SIS		A9025	180											
SAMPLE DESCRIPTION	PRE		Al %	Ag PPm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd PPm	ppm Co	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn Ppm	Mo ppm
26332 26339	299 299	-	1.63				< 0.5 < 0.5		9.43 0.26	11.5 < 0.5	23 33		5930 >10000	4.94 9.79	20 10	18	0.59 < 0.01	< 10 < 10	2.27	2670 320	< 1 < 1
																					



212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221

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A9025180 **CERTIFICATE OF ANALYSIS**

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SAMPLE DESCRIPTION	PREP CODE		Na %	Ni ppm	ppm P	Pb Ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	ppm u	ppm v	bbar M	Zn ppm			
26332 26339	299 2: 299 2:	33 33	0.02 0.01	50 41	280 200	26 26	335 5	6 6	52 3	0.01 0.02	< 10 < 10	< 10 < 10	63 85	< 10 < 10	848 176			
																•		
	1 1	- 1																



Analytical Chemists * Geochemists * Registered Assayers 212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR. N.VANCOUVER, BC V7G 1E5

A9025180

Comments:

CERTIFICATE

A9025180

ARNEX RESOURCES LIMITED

Project: SORT P.O. #: NONE

Samples submitted to our lab in Vancouver, BC. This report was printed on 23-OCT-90.

	SAMPLE PREPARATION													
CHEMEX	NUMBER SAMPLES	DESCRIPTION												
299 233	2 2	Sample split from other certif Assay AQ ICP digestion charge												
* NOTE	<u>h </u>													

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPEF LIMIT
921	2	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	2	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	2	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	2	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	2	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	2	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	2	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	2	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	2	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	2	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	2	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	2	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	2 2	Ga ppm: 32 element, soil & rock	ICP-AES	10 1	10000
951 934	2	Hg ppm: 32 element, soil & rock K %: 32 element, soil & rock	ICP-AES ICP-AES	0.01	10000 10.00
935	2	La ppm: 32 element, soil & rock	ICP-AES	10	10.00
936	2	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	2	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	2	Mo ppm: 32 element, soil & rock	ICP-AES	ĭ	10000
939	2	Na %: 32 element, soil & rock	ICP-AES	$0.0\overline{1}$	5.00
940	2	Ni ppm: 32 element, soil & rock	ICP-AES	ī	10000
941	2	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	2	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	2	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	2	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
944	2	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	2	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	2	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	2	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	2	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949 950	2	W ppm: 32 element, soil & rock Zn ppm: 32 element, soil & rock	ICP-AES ICP-AES	10 2	10000 10000



Analytical Chemists * Geochemists * Registered Assayers 212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 To: ARNEX RESOURCES LIMITED

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Page Nu...er: 1 Total Pages: 1 Invoice Date: 25-OCT-90 Invoice No.: I-9025183 P.O. Number: NONE

Project : SORT Comments:

CERTIFICATE OF ANALYSIS A9025183

		_						CERIII	FICATE	OF AN	ALYSIS) <i>/</i>	1902518	3	
SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	As ppm	Bi ppm	Cu ppm	Cd ppm	Hg ppb	Mo ppm	ppm Pb	Sp ppm	Se ppm	Zn ppm		
9059 9060 9061 9062 9063	201 238 201 238 201 238 201 238 201 238	5 < 5 < 5 20 85	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	3 2 2 17 15	< 0.1 < 0.1 < 0.1 0.1 0.1	116 130 114 140 124	0.4 < 0.1 < 0.1 0.5 0.3	150 70 90 290 180	< 1 < 1 < 1 < 3 < 1	28 2 2 14 8	< 0.2 < 0.2 < 0.2 1.4 1.2	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	104 84 79 140 135		
9064 9065 9066 9067 9068	201 238 201 238 201 238 217 238 217 238	70 < 5 < 5 < 5 < 5	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	14 2 3 10 2	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	138 82 140 23 44	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	160 170 70 110 110	< 1 < 1 < 1 < 1 < 1	4 4 1 < 1 1	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	88 94 86 38 64		
9069 9070 9071 9072 9073	201 238 201 238 201 238 201 238 201 238 201 238	120 10 < 5 110 85	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	12 1 5 1 2	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	172 128 155 120 124	< 0.1 < 0.1 < 0.1 < 0.1 0.2	50 50 60 70 50	< 1 < 1 2 < 1 2	2 < 1 1 < 1 8	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	70 77 58 91 99		
9074 9075 9076 9077 9078	201 238 203 205 201 238 201 238 201 238	245 25 < 5 45 < 5	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	1 2 4 2 3	< 0.1 < 0.1 < 0.1 < 0.1 0.1	132 154 120 116 240	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	70 120 140 140 70	< 1 3 < 1 < 1 < 1	1 3 10 4 2	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	100 138 109 82 62		
9079 9080 9081 9082 9083	201 238 201 238 201 238 201 238 201 238	25 5 < 5 < 5 30	0.3 < 0.2 < 0.2 < 0.2 < 0.2	20 12 2 2 2	0.1 0.8 < 0.1 < 0.1 < 0.1	220 184 138 120 98	< 0.1 0.2 < 0.1 < 0.1 < 0.1	40 130 40 60 40	< 1 < 1 < 1 < 1 < 1	1 5 1 1	0.8 0.4 < 0.2 < 0.2 < 0.2	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	45 71 94 85 76		
9084 9085	201 238 201 238	< 5 < 5	< 0.2 < 0.2	1 2	< 0.1 < 0.1	180 160	< 0.1	50 130	<1<1	10	< 0.2 < 0.2	< 0.2 < 0.2	80 124		
											E				

CERTIFICATION: tax Buchler



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A9025183

Comments:

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ARNEX RESOURCES LIMITED

Project: SORT P.O. #: NONE

Samples submitted to our lab in Vancouver, BC. This report was printed on 25-OCT-90.

	SAMPLE PREPARATION									
CHEMEX	NUMBER SAMPLES	DESCRIPTION								
201 203 205 217 238 287	24 1 1 2 27 27	Dry, sieve to -80 mesh Dry, sieve to -35 mesh Geochem ring to approx 150 mesh Geochem ring entire sample NITRIC-AQUA REGIA DIGESTION Special dig'n with organic ext'n								

ΔΝΔΙ	.YTICA	I PRO	CFDI	IRES
MINAL	. I IICA	LPNU	CED	JNEG

		ANALYTICAL	PROCEDURES		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100 6 13 23 2 7 20 3 4 22 16 5	27 27 27 27 27 27 27 27 27 27 27 27 27	Au ppb: Fuse 10 g sample Ag ppm: HNO3-aqua regia digest As ppm: HNO3-aqua regia digest Bi ppm: HC1-KC103 digest, extra Cu ppm: HNO3-aqua regia digest Cd ppm: HNO3-HC1 digestion Mo ppm: HNO3-aqua regia digest Pb ppm: HNO3-aqua regia digest Sb ppm: HC1-KC103 digest, extra Se ppm: HC1-KC103 digest, extra Zn ppm: HNO3-aqua regia digest Dpm: HC1-KC103 digest, ext Dpm: HC1-KC103 digest, ext Dpm: HNO3-aqua regia digest Dpm: HNO3-aqua regia digest	AAS AAS-BKGD CORR AAS-FLAMELESS AAS AAS-BKGD CORR	5 0.2 1 0.1 10 1 0.2 0.2	10000 100.0 10000 10000 200 10000 10000 10000 100.0 100.0 10000



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Page Nu. : 1 Total Pages : 1 Invoice Date: 25-NOV-90 Invoice No. : I-9026803 P.O. Number :

Project: SORT

Comments:

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SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	As ppm	Bi ppm	Cu ppm	Cd ppm	Hg ppb	Mo ppm	Pb ppm	Sp Sp	Se ppm	Zn ppm		
9086 9087 9088 9089 9090	201 238 201 238 201 238 201 238 201 238 203 205	5 20 50 5 < 5	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	2 16 14 4 1	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	140 186 164 178 138	< 0.1 0.9 0.3 < 0.1 < 0.1	70 160 210 120 30	1 2 2 1 1	4 38 10 8 1	< 0.2 0.2 1.2 < 0.2 < 0.2	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	68 186 152 110 88		
9091 9092 9093 9094 9095	201 238 201 238 201 238 203 205 201 238	< 5 < 5 < 5 < 5 135	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	2 1 1 1 2	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	170 160 80 50 186	< 0.1 < 0.1 0.2 < 0.1 < 0.1	60 40 100 20 60	2 1 1 < 1 < 1	< 1 1 6 < 1 1	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	84 100 100 46 100		
9096 9097 9098 9099 90100	203 205 201 238 201 238 201 238 203 205	5 90 5 15	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	1 6 2 30 2	< 0.1 < 0.1 < 0.1 < 0.1 < 0.1	156 310 174 225 126	< 0.1 < 0.1 < 0.1 0.1 < 0.1	20 120 190 240 60	< 1 < 1 < 1 < 1 < 1	< 1 10 18 18 4	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2 < 0.2	70 78 72 72 90		
90101 90102 90103 90104 90105	203 205 203 205 201 238 201 238 201 238	< 5 < 5 < 5 1380 1490	< 0.2 < 0.2 < 0.2 7.0 9.0	2 2 6 62 96	< 0.1 < 0.1 < 0.1 0.1 0.1	55 56 144 350 400	< 0.1 < 0.1 0.2 0.5 0.6	40 30 90 2000 1800	< 1 < 1 < 1 < 1 < 1	< 1 1 6 40 48	< 0.2 < 0.2 < 0.2 1.0	< 0.2 < 0.2 < 0.2 < 0.2 < 0.2	40 64 130 130 138		
90106 90107 90108	201 238 201 238 201 238	1200 < 5 < 5	5.9 0.2 < 0.2	60 23 4	0.1 < 0.1 < 0.1	360 130 104	0.6 0.7 0.3	1900 270 310	1 < 1 1	38 24 34	0.8	< 0.2 < 0.2 < 0.2	116 144 70		
														•	

CERTIFICATION: Hawksuchler



Analytical Chemists * Geochemists * Registered Assayers 212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221

To: ARNEX RESOURCES LIMITED

4005 BROCKTON CR. N.VANCOUVER, BC V7G 1E5

A9026803

Comments:

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ARNEX RESOURCES LIMITED

Project: P.O. #:

SORT

Samples submitted to our lab in Vancouver, BC. This report was printed on 25-NOV-90.

	SAMPLE PREPARATION									
CHEMEX	NUMBER SAMPLES	DESCRIPTION								
201 203 205 238 287	17 6 6 23 23	Dry, sieve to -80 mesh Dry, sieve to -35 mesh Geochem ring to approx 150 mesh NITRIC-AQUA REGIA DIGESTION Special dig'n with organic ext'n								

			ANALYTICAL P	ROCEDURES		
	NUMBER SAMPLES		DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
100 6 13 23 2 7 20 3 4 22 16 5	23 23 23 23 23 23 23 23 23 23 23 23 23 2	Ag ppm: H As ppm: H Bi ppm: H Cu ppm: H Cd ppm: H Hg ppb: H Mo ppm: H Pb ppm: H Sb ppm: H Se ppm: H	use 10 g sample NO3-aqua regia digest NO3-aqua regia digest C1-RC103 digest, extrac NO3-aqua regia digest NO3-aqua regia digest NO3-HC1 digestion NO3-aqua regia digest NO3-aqua regia digest C1-RC103 digest, extrac C1-RC103 digest, ext NO3-aqua regia digest	AAS AAS-BKGD CORR AAS-FLAMELESS AAS AAS-BKGD CORR	5 0.2 1 0.1 1 0.1 10 1 0.2 0.2	10000 100.0 10000 10000 200 100000 10000 10000 10000 10000



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To: ARNEX RESOURCES LIMITED

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Project : Comments: SORT

Page Number: 1 Total Pages: 1 Invoice Date: 23-NOV-90 Invoice No.: 1-9026804 P.O. Number:

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SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Ag ppm Aqua R	As ppm	Bi ppm	Cu ppm	Cd ppm	Hg ppb	Mo ppm	Pb ppm	Sb ppm	Se ppm	Zn ppm		
26342 26343	205 294 205 294	40 85	< 0.2	36 100	< 0.1 < 0.1	120 50	< 0.1	10 20	1	6 4	1.6	< 0.2	110 44		
•															
	<u></u>		<u> </u>	<u>.</u>	I	.1	L	<u> </u>		1	RTIFICATIO	1/2	WYS	ichla	L



Analytical Chemists * Geochemists * Registered Assayers 212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 To: ARNEX RESOURCES LIMITED

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A9026804

Comments:

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A9026804

ARNEX RESOURCES LIMITED

Project: P.O. #: SORT

Samples submitted to our lab in Vancouver, BC. This report was printed on 23-NOV-90.

	SAMPLE PREPARATION									
CHEMEX	NUMBER SAMPLES	DESCRIPTION								
205 294 238 287	2 2 2 2	Geochem ring to approx 150 mesh Crush and split (0-10 pounds) NITRIC-AQUA REGIA DIGESTION Special dig'n with organic ext'n								

ANAL'	YT	IC#	\L	PR	oc	ED	URES
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	.	, ····	AMALITOALI			
CHEMEX	NUMBER SAMPLES		DESCRIPTION	METHOD	DETECTION ~	UPPER LIMIT
100 6 13 23 2 7 20 3 4 22 16 5	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Au ppb: Ag ppm: As ppm: Bi ppm: Cu ppm: Cd ppm: Hg ppb: Mo ppm: Pb ppm: Sb ppm: Se ppm:	Fuse 10 g sample HNO3-aqua regia digest HNO3-aqua regia digest EC1-KC103 digest, extrac HNO3-aqua regia digest HNO3-HC1 digestion HNO3-aqua regia digest HNO3-aqua regia digest HC1-KC103 digest, extrac HC1-KC103 digest, ext HNO3-aqua regia digest	FA-AAS AAS-BRGD CORR AAS-BRGD CORR AAS-BRGD CORR AAS-BRGD CORR AAS-FLAMELESS AAS AAS-BRGD CORR AAS-BRGD CORR AAS-BRGD CORR AAS-BRGD CORR AAS-BRGD CORR AAS-BRGD CORR	5 0.2 1 0.1 1 0.1 1 0.2 0.2 1	10000 100.0 10000 10000 200 10000 10000 10000 100.0 10000



Analytical Chemists * Geochemists * Registered Assayers 212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221

To: ARNEX RESOURCES LIMITED

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Project : Comments: SORT

Page Nu. : 1
Total Pages : 1
Invoice Date: 28-NOV-90
Invoice No. : I-9026805
P.O. Number :

							CERTIFICATE OF ANALYSIS A9026805			26805		
SAMPLE DESCRIPTION	PRI	EP DE	Au FA g/tonne	Ag g/tonne	Cu %	Pb	Zn %					
26344 26345 26346 26347	207 207 207 207 207	294 I	33.2 0.69 11.60 5.04	96.0 4.0 10.0 5.5	0.14 0.03 0.86 0.02	< 0.01 < 0.01 0.04 0.07	< 0.01 < 0.01 8.42 0.37					
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Comments:

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Project: P.O. # : SORT

Samples submitted to our lab in Vancouver, BC. This report was printed on 28-NOV-90.

	SAM	PLE PREPARATION
CHEMEX	NUMBER SAMPLES	DESCRIPTION
207 294	4 4	Assay pulv, screen -150, roll Crush and split (0-10 pounds)

ANALYTICAL PROCEDURES						
CHEMEX CODE	NUMBER SAMPLES		DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
1297 386 301 312 316	4 4 4 4	Ag g/tonne Cu %: HClO Pb %: HClO	: 2 assay ton : Aqua regia digesti 4-HNO3 digestion 4-HNO3 digestion 4-HNO3 digestion	FIRE ASSAY ON AAS AAS AAS AAS	0.03 0.5 0.01 0.01	1000 500 100.0 100.0 100.0

