ASHWORTH EXPLORATIONS LIMITED

July 5, 1996

STATEMENT OF COST
HOPE CLAIM

Phase 1: Geological, geochemical & geophysical reconnaissance (13 man crew, 16 days).

Project Preparation (4 men, 3 days): preparation of maps; previous reports; field supplies; and warehouse work.		$ 4,275.00
Mob/Demob (8 men, 4 days): wages; transportation (ferry/truck); food and accommodations.		$ 14,700.00
Grid Establishment (Pownall Exploration Line Cutters)		$ 37,500.00
Field Crew		
Project Geologist @ $425/day x 12 days	$ 5,100.00	
Party Chief @ $350/day x 12 days	$ 4,200.00	
Geophysical Operator @ $350/day x 12 days	$ 4,200.00	
Geotechnician @ $300/day x 12 days	$ 3,600.00	
Helper @ $350/day x 14 days	$ 4,900.00	
(Includes Boat Operation, Expediting, Research, Etc.)		
		$ 22,000.00
Field Costs		
Food & Accommodations (96 mandays @ $150/day)	$14,217.83	
Supplies	$ 1,393.23	
Communications @ $40/day x 19 days	$ 760.00	
Truck (Includes: Oil, Gas, Etc. - 16 days @ $130/day)	$ 2,396.66	
Boat Rental (Includes: Oil, Gas, Etc. -75 hours @ $50/hour)	$ 3,841.01	
		$ 22,608.73
Lab Analysis (Acme Analytical Labs) 74 Rock Samples @ $19.55 ea. & 309 Soil Samples - $15.95 ea.		$ 3,511.90
Geophysical Survey (Geotronics Surveys Ltd.) Mag-VLF EDA System - 6,437 km. (5 days @ $320/day)		$ 1,600.00
IP Survey (Geotronics) - 4 man crew includes Mob/Demob 2.3 km. - 8 days @ $1,250/day		$ 10,200.00
Geophysical Report & Data Reduction (Geotronics)		$ 3,000.00
Consulting (Dr. Edward W. Grove, PhD.) 3 days @ $500/day + expenses		$ 2,950.73
Data Compilation & Report (Dr. E.W. Grove): Report Writing, Maps, Plotting, Drafting, Word Processing, Copying & Binding. ($500/day + expenses)		$ 8,000.00
Subtotal		**$130,346.36**
Administration Costs @ 15%	$19,551.95	
Subtotal		**$149,898.31**
GST @ 7%	$10,492.88	
TOTAL		**$160,391.19**

*All Receipts Available Upon Request.

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Email: ashex@netcom.ca

GEOLOGICAL REPORT AND WORK PROPOSAL ON THE HOPE 2 & HOPE 3 CLAIMS SONORA ISLAND, B.C.

NANAIMO M.D.

NTS 92K/06W

PREPARED FOR

AQUISTAR VENTURES INC.

BY

EDWARD W. GROVE, Ph.D., P.Eng.

VICTORIA B.C. JUNE 10, 1996

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FIGURES Following Page

SUMMARY

The HOPE 2 and 3 staked mineral claims comprising 22 units lie on the northwest corner of Sonora Island about 20 kilometers north of Campbell River and 100 km northwest of Vancouver, B.C. Access is by boat or float plane from Campbell River.

The two claims encompass the old Sonora-Nodale property first staked in 1919. Work on the property in 1929 included four adits, and two 60 foot deep shafts. Production from this property recorded in 1939-1941 included 14 tons assaying about 2.07 opt Au, 3.3 opt Ag, and 0.22 per cent Cu.

Mineralization on the Hope property has been generally assumed to comprise quartz-sulfide veining hosted in Late Triassic metasedimentary complex similar to the Doratha Morton, a major gold producer in this area. The sulfide mineralization in the quartz veins comprises mainly pyrite with pyrrhotite and chalcopyrite and is generally marked by rusty alteration. This metasedimentary zone which also includes aplitic and pegmatitic members has been traced 1500 meters and like almost all mineral deposits in the area trends northwesterly within elongated granodiorite and diorite plutons which form part of the west edge of the Coast Plutonic Complex.

Of the 26 mineral deposits known in the immediate area, seven have recorded gold, silver and copper production.

Geochemical soil sampling and four types of geophysical surveys completed during 1996 have produced a number of composite anomalies which have yet to be investigated. As a result of these surveys and geological mapping three potential mineral environments have been outlined for the property similar to those found in the general area. These include schist/amphibolite zones, the complex metasedimentary/igneous screen zone, and the margin of the associated diorite intrusive.

The mineral exploration budget proposed to continue work on the Hope property is estimated at about $154,000 for Phase I.

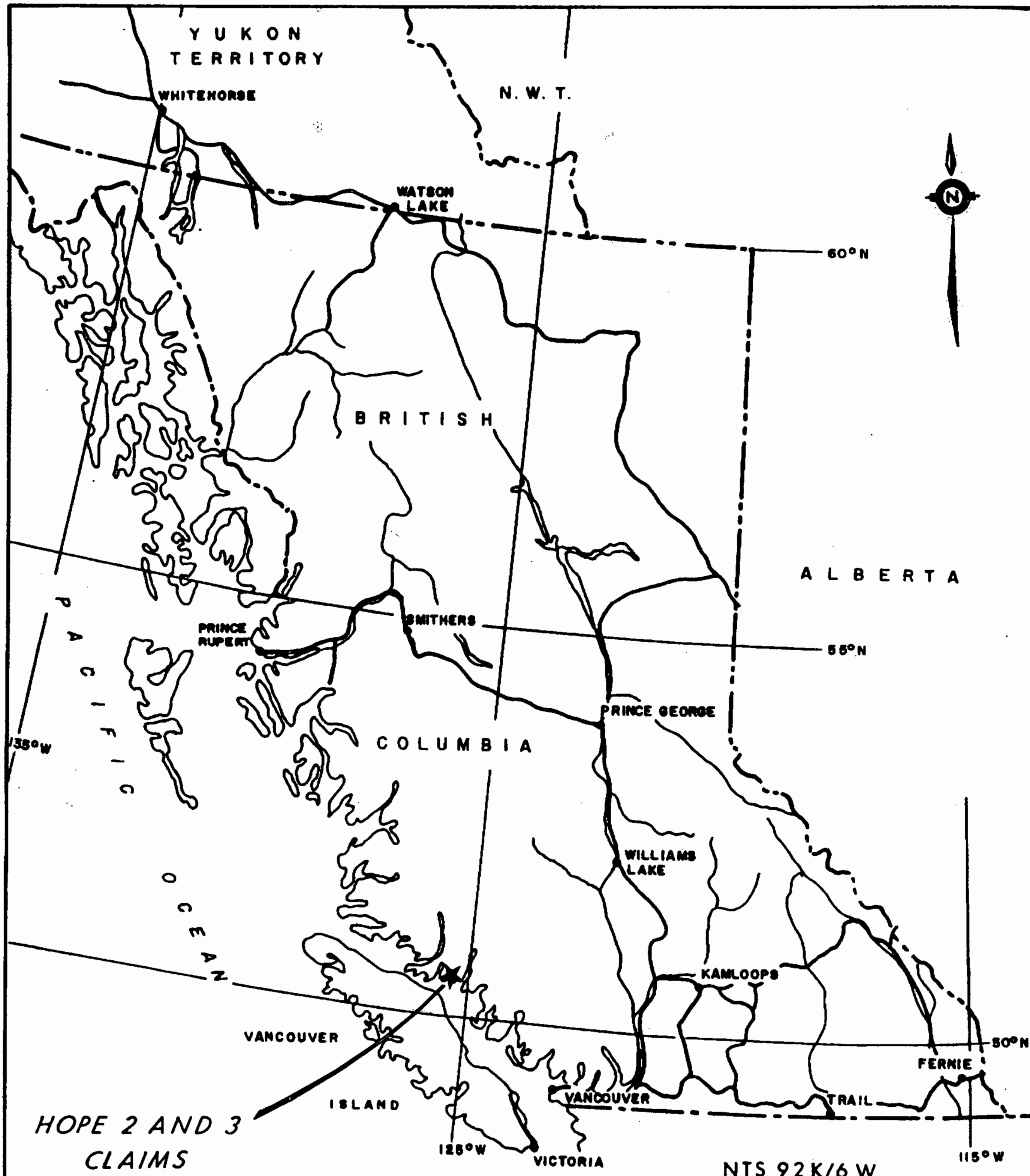


FIGURE 1

0 100 200 300 400 km

AQUISTAR VENTURES INC.	
HOPE 2 AND 3 CLAIMS SONORA ISLAND, NANAIMO M.D. **GENERAL LOCATION MAP**	
Project No:	By: F. Y.
Scale: 1 : 8 000 000	Drawn: J. S.
Drawing No: 1	Date: MARCH 1996.
Ashworth Explorations Limited	

INTRODUCTION

The HOPE 2 and 3 mineral claims comprising 22 units situated at the northwest end of Sonora Island are located about 100 km northwest of Vancouver, B.C. The island can be reached by boat and float plane from Campbell River, a distance of about 20 km. Accommodation had been utilized at the nearby Shoal Bay Lodge which can also usually supply water taxi service. The property was originally Crown Granted in 1919 but most of the known work was completed during 1929. Four adits were driven in deformed quartz-sulfide veins hosted within an Upper Triassic metasedimentary-igneous deformation zone localized between Mesozoic granodiorite and diorite plutons. Government records also indicate that two 60 foot deep shafts were sunk near Adit #3 during 1929. During the period 1939 to 1941, 14 tons of ore were produced which contained significant gold, silver and copper. Thick slash form past logging operations, very dense secondary and tertiary bush, the small amount of rock exposure, and winter conditions impeded work on the property.

Geochemical, geophysical and geological work on the claims in 1996 has considerably upgraded knowledge of the local geology. Rather than the possibility of only the Doratha Morton type of gold mineralization hosted within a deformed metasedimentary zone, the new work has shown the presence of three different potential environments outlined by composite geochemical and geophysical anomalies.

The 1996 exploration work on the HOPE property is estimated to have cost about $150,000.

LOCATION, ACCESS & TOPOGRAPHY

The HOPE 2 and 3 staked mineral claims are located at the northerly tip of Sonora Island, about 100 kilometers northwest of Vancouver, B.C. (Figure 1). The claims can be easily reached from Campbell River by float plane and boat from Rock Bay. Accommodation has been available at Shoal Bay Lodge located about 5 km away on the north side of East Thurlow Island where a water taxi is generally available.

Sonora Island is one of many islands which lie between Vancouver

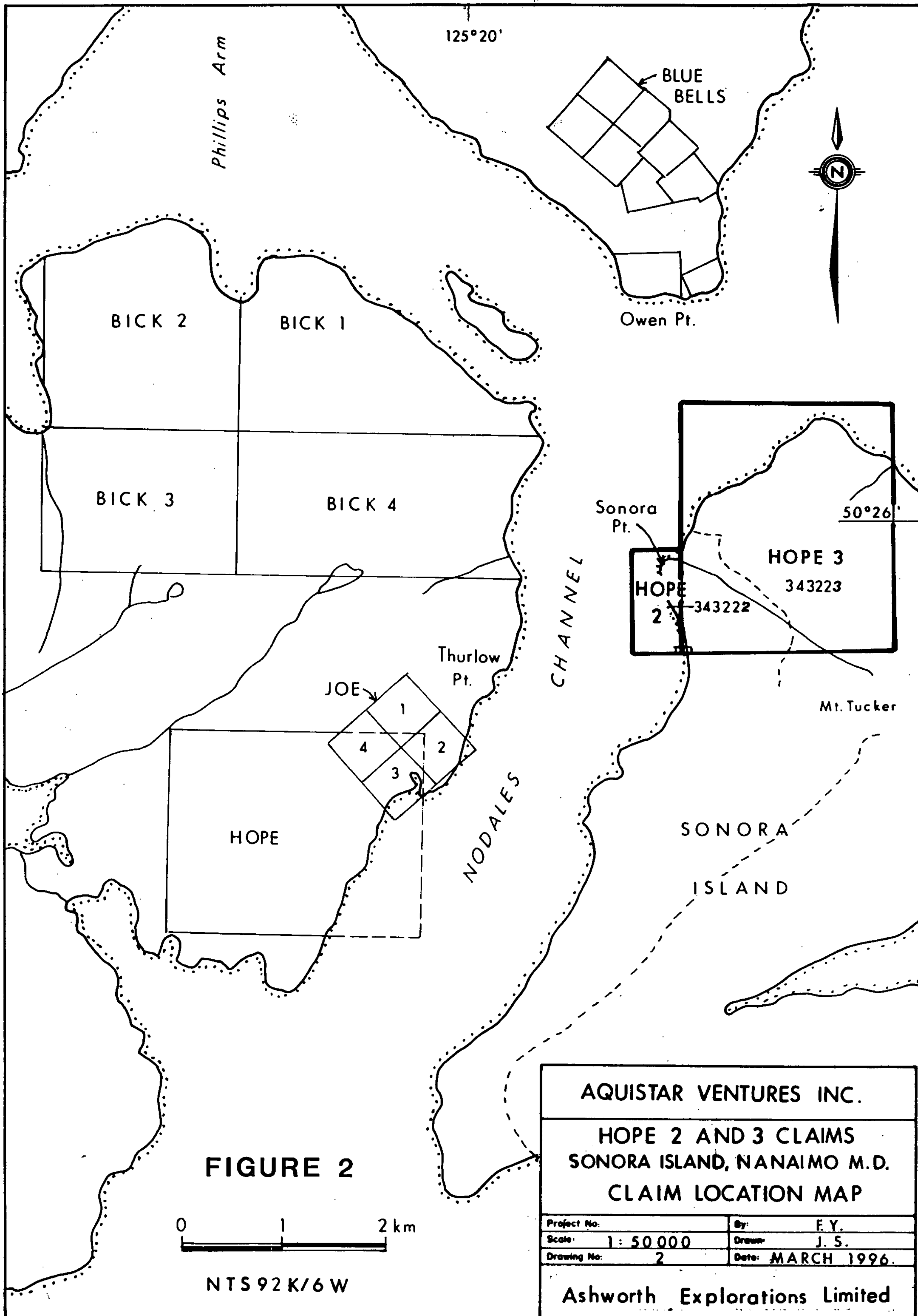

125°20'
Phillips Arm
BLUE BELLS
Owen Pt.
BICK 2
BICK 1
BICK 3
BICK 4
Sonora Pt.
50°26'
HOPE 3
343223
HOPE 2
343222
Thurlow Pt.
CHANNEL
NODALES
JOE
1
2
3
4
HOPE
Mt. Tucker
SONORA ISLAND
0
1
2 km
NTS 92 K/6 W
AQUISTAR VENTURES INC.
HOPE 2 AND 3 CLAIMS
SONORA ISLAND, NANAIMO M.D.
CLAIM LOCATION MAP
Project No:
Scale: 1: 50 000
Drawing No: 2
By: F.Y.
Drawn: J. S.
Date: MARCH 1996.
Ashworth Explorations Limited

FIGURE 2

Island and the B.C. mainland sea coast in what is generally described as the Coastal Trough and is considered to lie within the central Bute Inlet map area. Together the major fjords and numerous narrow waterways form a complex waterway studded with steep islands and islets.

In the Hope claims area the land rises from sea level to 865 meters at Mount Tucker. Parts of the claim area, particularly along the waterfront, have been logged several times leaving deep slash, dense second growth and combinations of the two.

CLAIMS

The HOPE 2, and HOPE 3 staked mineral claims comprising 22 units in the Nanaimo Mining Division (NTS 92K/06W) are currently owned by Mr. Dave Heyman of Burnaby, B.C. (Figure 2).

Claim Name	Units	Tenure #	Record Date	Expiry Date
HOPE 2	2	343222	Jan. 30/96	Jan. 30/97
HOPE 3	20	343223	Jan. 31/96	Jan. 31/97

The claims area was explored in 1996 under an agreement with Aquistar Ventures Inc. - Work Approval Number NAN-96-0800992-16.

CLAIM HISTORY

Part of the current property was recorded as Crown Granted claims, Bobby Burns, Hetty Green, and Daniel Webster in 1919. No recorded work was published until 1929 when two beach adits, a third adit at 300 feet elevation and "a couple of shafts" about 60 feet deep were driven on quartz veins by Sonora Gold Mines Ltd. At that time the property comprised 21 adjoining claims. No further work was recorded and the Crown Granted claims were forfeited in 1947.

In 1983 five of the reverted Crown Granted claims were acquired by Tenajon Silver Corp. of Vancouver. Work on the claim area included limited reconnaissance geology, four stream silt samples and 32 B horizon soil samples.

In 1982 the northeasterly coast of Sonora Island was staked as the ARGO group of claims, now partly covered by the HOPE 3. Work on the ARGO claims in 1984 included some prospecting and geochemical soil sampling along several contours above the waterfront. Work continued on the claims in 1985 included further geochemical soil sampling, prospecting and limited geological studies. A total of 750 soil and shear zone samples were tested for Cu and Zn by colorimetric field tests and 53 rock samples were tested for gold.

In 1996 work on the HOPE 2 and 3 claim area included geological mapping, and sampling along the shoreline and along the new cut line grid which totalled about 13.0 kilometers. A total of 295 geochemical soil samples taken on the grid lines from B horizon material were treated by the ICP and FA/ICP method. In addition a geophysical survey included IP/Resistivity, magnetic, and VLF-EM surveys along 6.44 kilometers of line. The geophysical surveys were not completed over the entire grid area because of various problems. Three general rock types were submitted for petrographic study (Appendix I) and 68 rock and chip samples were taken for examination. All samples were assayed by FA/ICP methods for gold.

GENERAL GEOLOGY

Sonora Island lies along the western limit of the Coast Plutonic Complex where this major tectonic unit merges with the dominantly volcanic Upper Triassic Karmutsen Formation of Vancouver Island (Figure 3). The contact zone between these tectonic regimes is marked by strong northwesterly trending, narrow, elongated belts of both igneous and metamorphosed country rocks. This complex belt comprises mainly granodiorite and diorite as well as minor quartz monzonite and gabbro of mainly Late Jurassic age. This region of the Coast Plutonic Complex is characterized by the decrease in pluton age from west to east. Stratified country rocks within this transition zone include Karmutsen volcanic, clastic sedimentary and carbonate members. Most of these units have survived as variably altered and recrystallized ribbon-like units marked by strong foliation along the plutonic contacts. This alteration and deformation contrasts strongly with the relative simple, open folding of Karmutsen units on adjacent Vancouver Island.

Roddick (1973) recognized seven narrow discontinuous, northwesterly


Scale 1:250000
GENERAL GEOLOGY
FIGURE 3
KNIGHT
LOUGHBOROUGH INLET
VINCIAL FOREST
EAST THURLOW ISLAND
WEST THURLOW
SONORA
NODALES CHANNEL
Phillips Arm
Phillips Lake
Frederick Arm
Estero Basin
Heydon Lake
Mayne Passage
Blind Channel
Rock Bay
Stuart Island
Church House
Nodales
Thurlow
Green Point
MT GARDINER
MT TUCKER
MT BROUGHAM
b83
b85
b86
b87
b101
h112
b110
h104
b146
b142
gd
qd
di
gn
Q
PT
IKg
URK
URKm

LEGEND

STRATIFIED ROCKS

QUATERNARY

Q	Alluvial and glacial deposits

CRETACEOUS

LOWER CRETACEOUS

lKg	GAMBIER GROUP Greenstone, volcanic breccia, argillite, minor conglomerate, limestone, and schist

JURASSIC

LOWER JURASSIC

lJb	BONANZA GROUP Andesitic flows and pyroclastics
lJh	HARBLEDOWN FORMATION Feldspathic wacke, siliceous argillite, phyllite, quartzite and minor limestone

TRIASSIC

UPPER TRIASSIC

TRp	PARSON BAY FORMATION Dark limy shale, calcarenite, wacke
TRq	QUATSINO LIMESTONE Mainly thick-bedded, light grey bioclastic limestone
	KARMUTSEN FORMATION
UTRKp	Pillow lava within Quatsino Limestone
UTRK	UPPER KARMUTSEN Basalt flows; minor limestone, shale, pillow lava, and pillow breccia
UTRKm	MIDDLE KARMUTSEN Pillow breccia and aquagene tuff
UTRKl	LOWER KARMUTSEN Closely packed pillow lava

PALEOZOIC AND/OR TRIASSIC

PTR	Amphibolite, schist, quartzite; minor crystalline limestone, greenstone

PALEOZOIC OR OLDER

gn	Granitoid gneiss, amphibolite, and schist

PLUTONIC ROCKS

qm	Quartz monzonite
gd	Granodiorite
qd	Quartz diorite
di	Diorite
gb	Gabbro

HYPABYSSAL ROCKS

f	Felsite

Geological boundary (defined, approximate or assumed)

Attitude of bedding or flows (inclined, vertical)

Attitude of foliation, gneissosity (inclined, vertical)

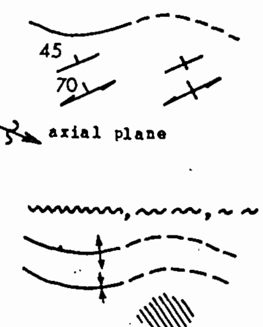
Axis of multiple minor folds (showing plunge direction; axial plane vertical)

Fault (defined, approximate, assumed)

Anticline (axial trace defined, approximate)

Syncline (axial trace defined, approximate)

Dyke swarm (lines parallel trend)



Potassium-argon age determination: single ○ ; multiple ● ;

biotite = b; hornblende = h; UBC determination = ■

Observed minerals: chalcopyrite = □; garnet = ⊗; magnetite = ⓜ; malachite = O; molybdenite = ◎; pyrite = ✱; pyrrhotite = ▽; sillimanite = ⓢ; sphene = ▲.

Fossil locality Ⓕ

Geology by J. A. Roddick, W. W. Hutchison and G. J. Woodsworth, 1970-76.

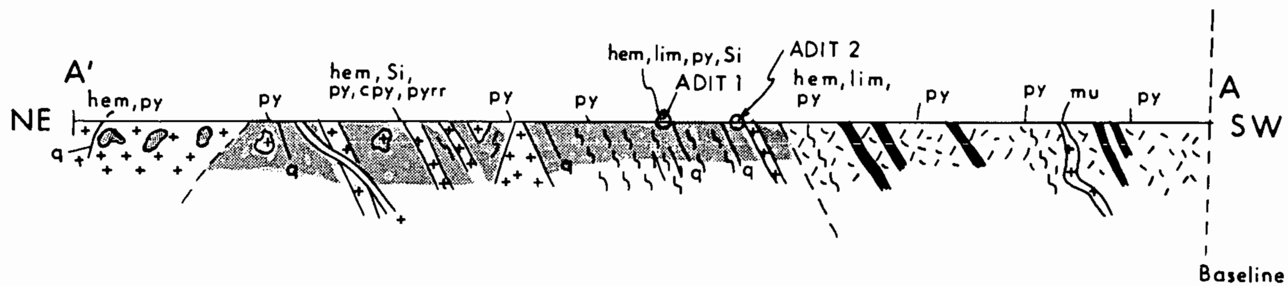
Vancouver Island and part of Quadra Island by D. Carlisle, 1960-71.

Mt. Raleigh area by G. J. Woodsworth, 1971-73.

Compiled by J.A. Roddick and G.J. Woodsworth

GENERAL STRUCTURAL GEOLOGY

FIGURE 4



LEGEND

Chlorite schist

Diorite

Leucogranite

Basalt/diabase

q Quartz vein

Shear zone

py	pyrite
cpy	chalcopyrite
pyrr	pyrrhotite
hem	hematite alteration
lim	limonite alteration
Si	silicification
mu	muscovite

FIGURE 6

0 100 200m

AQUISTAR VENTURES INC.

HOPE 2 AND 3 CLAIMS
SONORA ISLAND, NANAIMO M.D.
SCHEMATIC CROSS SECTION
OF SHORLINE

Project No:		By:	T.V.
Scale:	1:5000	Drawn:	J.S.
Drawing No:		Date:	MARCH 1996.

Ashworth Explorations Limited

trending belts of rock within the Bute Inlet map area portion of the Coast Plutonic Complex. Sonora Island lies within the westerly belt where small areas of hornblende schist are associated with irregularly intercalated gneiss, thinly banded quartzite, marble and quartz-silicate lenses.

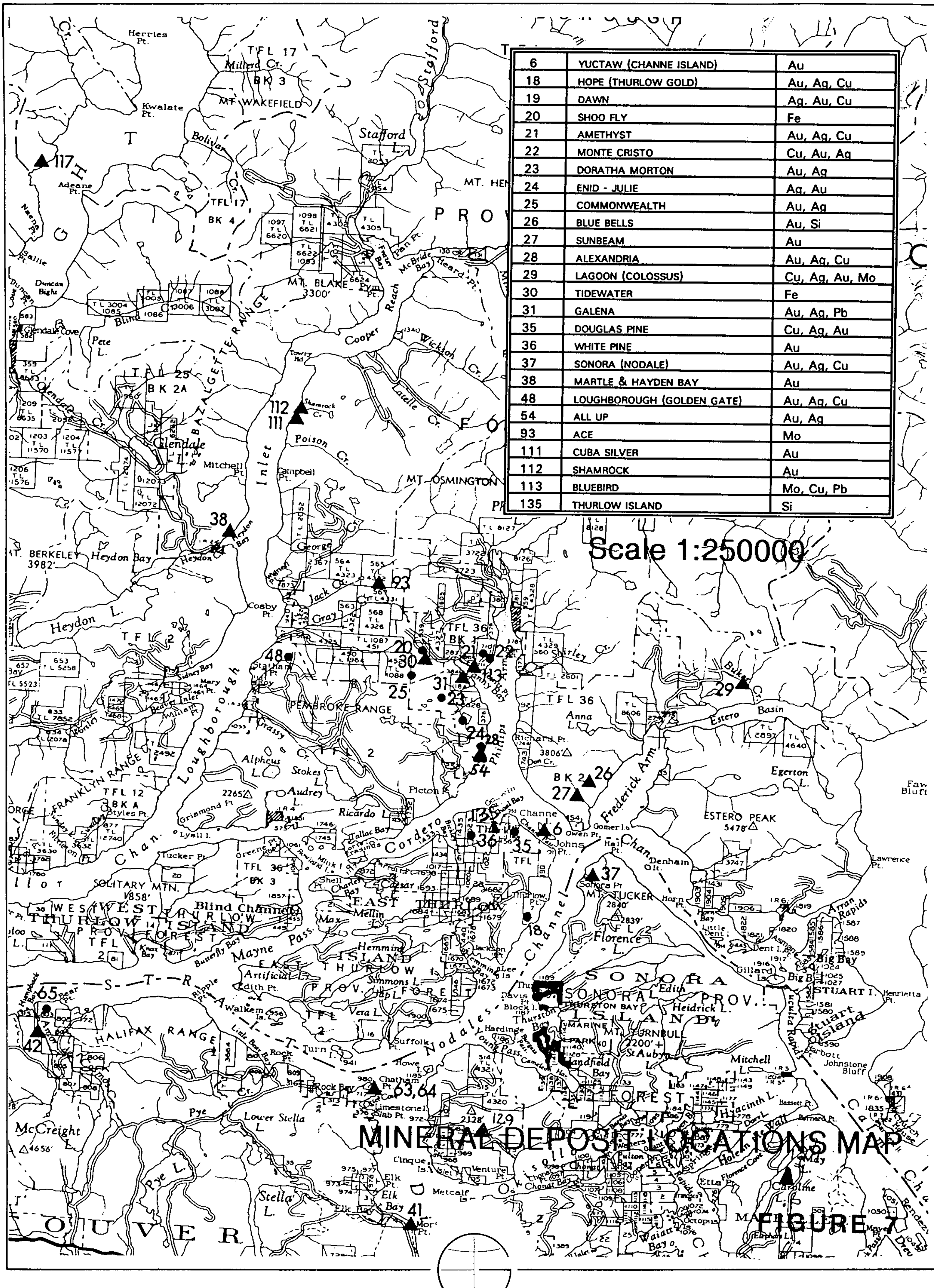
Rock structure in the narrow altered and deformed belts is mainly expressed as a foliation in the massive plutons and volcanic units, and as tight isoclinal folding in the metasedimentary members (Figure 4). Dike swarms marking major fracture systems and numerous faults on both regional and local scales are abundant geologic features.

LOCAL GEOLOGY

Regional mapping (Figures 3 & 4) indicated that Sonora Island is mainly a plutonic complex dominated by a medium grained, massive diorite forming the core area with lesser areas of quartz diorite and granodiorite at the southwest and southeast. In addition, Roddick (1973) indicated the presence of two narrow northwesterly trending metasedimentary zones on the north shore of the island. The southerly zone comprising mainly rusty weathering quartzite, schist and aplite located between Sonora Point and Hall Point, and the northerly zone chiefly comprising contorted marble, intercalated quartzite and schist.

In 1983 and 1984 work on the northeast portion of Sonora Island, that is, from Hall Point southeasterly, indicated that this part of the island was mainly a grey phyllite marked by numerous closely spaced shears and faults, as well as a succession of northwesterly trending, cliff forming dikes. Krutz (1984, 1985) noted that these shear zones included sericite, quartz, pyrite, arsenopyrite, chalcopyrite and sphalerite as mineralization. This unit is shown as part of a Palaeozoic or Triassic member on the regional map.

Geological mapping on the HOPE 2 and 3 claims during 1996 concentrated on the southerly metasedimentary zone located roughly half way between Sonora Point and Hall Point (Figure 5). In addition to the new geological map of the complex metasedimentary zone a cross-section at sea level has been included (Figure 6). This zone was partly explored by adits in 1929 and by reconnaissance geochemical methods in 1984 (MacLeod, 1984).



6	YUCTAW (CHANNE ISLAND)	Au
18	HOPE (THURLOW GOLD)	Au, Ag, Cu
19	DAWN	Ag. Au, Cu
20	SHOO FLY	Fe
21	AMETHYST	Au, Ag, Cu
22	MONTE CRISTO	Cu, Au, Ag
23	DORATHA MORTON	Au, Ag
24	ENID - JULIE	Ag, Au
25	COMMONWEALTH	Au, Ag
26	BLUE BELLS	Au, Si
27	SUNBEAM	Au
28	ALEXANDRIA	Au, Ag, Cu
29	LAGOON (COLOSSUS)	Cu, Ag, Au, Mo
30	TIDEWATER	Fe
31	GALENA	Au, Ag, Pb
35	DOUGLAS PINE	Cu, Ag, Au
36	WHITE PINE	Au
37	SONORA (NODALE)	Au, Ag, Cu
38	MARTLE & HAYDEN BAY	Au
48	LOUGHBOROUGH (GOLDEN GATE)	Au, Ag, Cu
54	ALL UP	Au, Ag
93	ACE	Mo
111	CUBA SILVER	Au
112	SHAMROCK	Au
113	BLUEBIRD	Mo, Cu, Pb
135	THURLOW ISLAND	Si

Two adits were driven on the shoreline in 1929 to test quartz veins. Adit #1 was driven in an aplitic/granitic metasedimentary unit and Adit #2 was drifted near the contact with massive medium grained diorite. The contact between the diorite at the south and the mixed unit was traced southeasterly more than 1500 meters. The mixed unit comprises a melange of contorted thin ribbon-like carbonate bands, chlorite schist, leucogranite, aplite, and calc-silicate rocks. This complex zone extends southeasterly with a general width of from 100 to 200 meters towards the east shore of Sonora Island. The northerly contact of this complex is bounded by a massive equigranular granodiorite which has a width of from 200 to 300 meters. Rocks on the north side of this intrusive granodiorite include thinly laminated, contorted andesite and basalt and massive, featureless basalt. Towards Hall Point these altered volcanic rocks have been highly deformed and altered to 'greenstone' and schist. All of these major rock units have been cut by a variety of dikes including basalt and granodiorite, and by numerous faults and shears. So far all the mineralization of note tested on this part of Sonora Island has been localized within the mixed granitic-metasedimentary zone.

MINERALIZATION

REGIONAL

Prospecting and mineral development in this general area were greatest between 1897 and 1899 and were abandoned because of the Yukon Gold Rush, then followed by lesser activity in the 1920's and 1930's. The Doratha Morton property which processed more than 10,000 tons of ore was the first cyanide-mill operation in British Columbia.

Mineral deposits, including several producing operations, have been developed along a linear northwesterly belt extending from Sonora Island at the southeast to central Loughborough Inlet at the northwest. In all, 26 mineral systems lie along this trend over a distance of about 30 kilometers and most have been hosted within narrow Palaeozoic/Triassic metasedimentary/metavolcanic bands (Figure 7). The following table summarizes the production record for the mines.

	PRODUCER	Year	Tons	Au oz.	Ag oz.	Cu lbs	Pb lbs	Zn lbs
18	HOPE (THURLOW GOLD)	1929-1941	422	95	133	297		
23	DORATHA MORTON	1898-1925	10,255	4,596	10,663	2,402		
24	ENID - JULIE	1933	2	2	7			
28	ALEXANDRIA	1939-1940	1,868	715	1,305	3,883		
35	DOUGLAS PINE	1937	10	3	705	240	720	540
37	SONORA (NODALE)	1939-1941	14	29	46	62		
48	LOUGHBOROUGH (GOLDEN GATE)	1935-1939	135	114	457	185		
	TOTALS		12,706	5,554	13,316	7,069	720	540

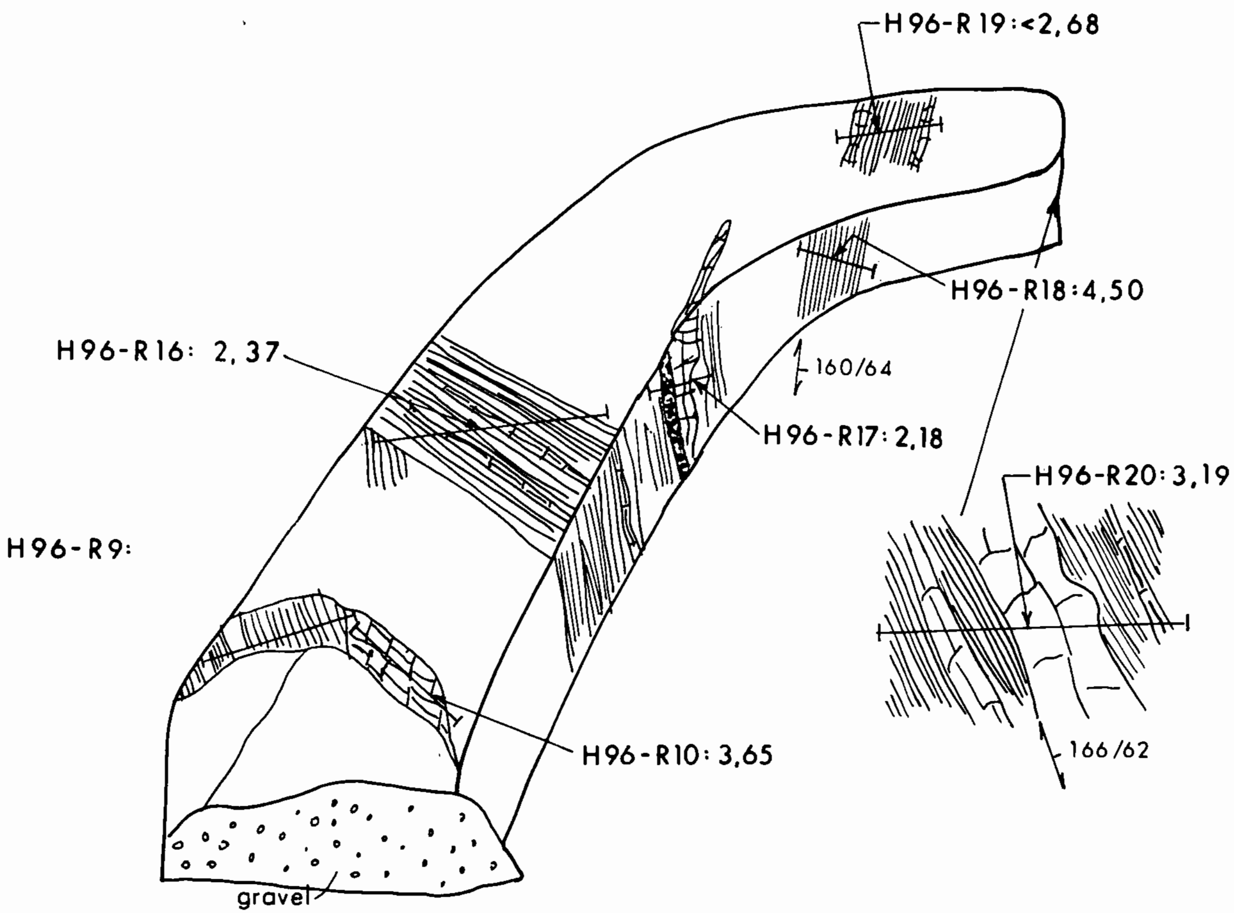
The above auriferous deposits are localized within or adjacent to narrow northwesterly trending metavolcanic/metasedimentary units marked by deformation, shearing, faulting and cut by a variety of dikes. Some are within northwesterly trending faults and shears generally close to the country rock contacts. Most of these deposits comprise quartz veins, and quartz veinlets with minor to common spotty, blebby, streaky to massive pyrite with accessory chalcopyrite and lesser sphalerite and galena. The gold has generally been related to pyrite with gold values as high as 5.5 opt Au at the Doratha Morton in clean pyrite.

The most important deposit in this area, the Doratha Morton, comprised quartz veins, lenses and veinlets localized within a 100-150 foot wide, northwesterly trending shear zone in a deformed country rock screen. This type of occurrence also includes the HOPE 2 and 3 claims on Sonora Island as well as several other deposits.

Deposits reported to lie entirely within plutonic rocks include the Hope, White Pine, and Alexandria. These are also quartz-pyrite vein-types localized within northwesterly trending breccia and shear zones. Because of the general lack of detailed information regarding these properties and showings it is difficult to assign geological controls to each deposit.

HOPE 2 & 3 PROPERTY

Records of the B.C. Minister of Mines list the production of 14 tons of material shipped to the Tacoma smelter from 1939-1941 which included 29 ounces gold, 46 ounces silver, and 62 pounds of copper. No mention of the exact location of this ore has yet been found, but several workings have been located. In 1996 geological mapping of the HOPE 2 and 3 property found the two adits on



VIEW LOOKING SOUTHEAST (140°)

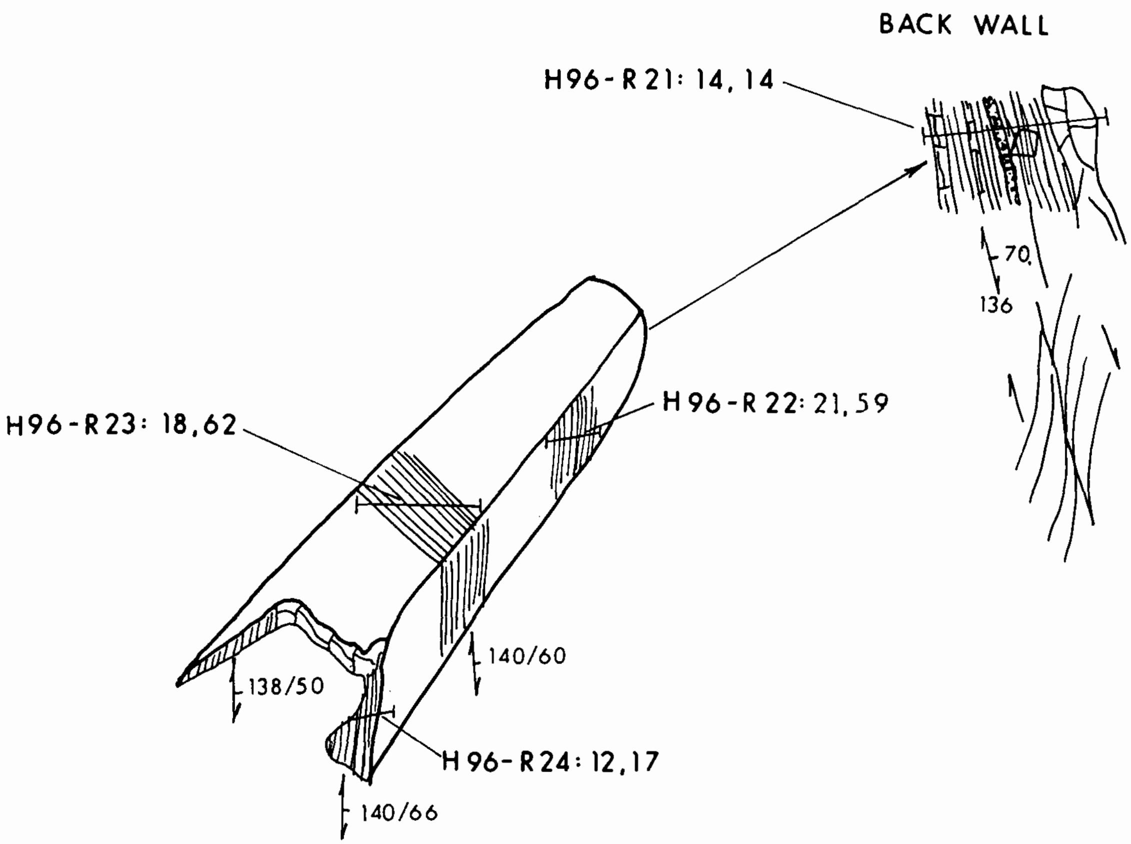
LEGEND

- Chloritic schist, variable altered
- Quartzite layer, minor marble
- Quartz vein
- Rock sample location, Au ppb, Cu ppm

FIGURE 8

0 2 4 6 8 m

AQUISTAR VENTURES INC.	
HOPE 2 AND 3 CLAIMS SONORA ISLAND, NANAIMO M.D. ADIT # 1	
Project No:	By: T. V.
Scale: 1 : 160	Drawn: J. S.
Drawing No:	Date: MARCH 1996.
Ashworth Explorations Limited	



VIEW LOOKING SOUTHEAST (165°)

LEGEND

Chloritic schist

Quartzite layers

Quartz vein

Rock sample location, Au ppb, Cu ppm

FIGURE 9

0 5 10m

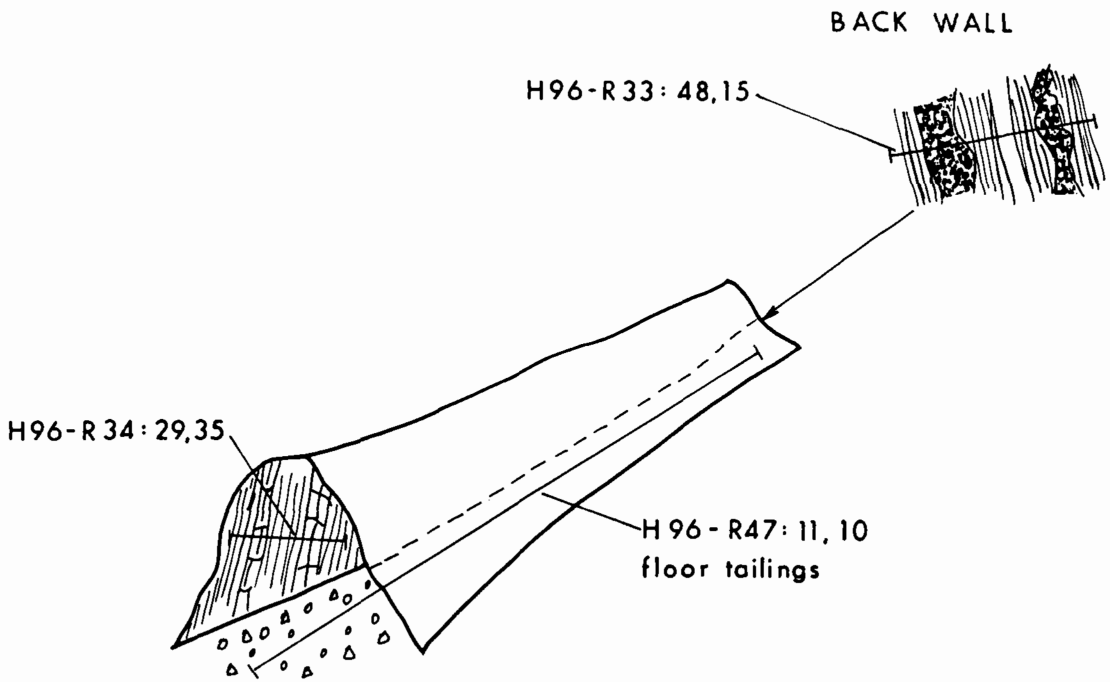
AQUISTAR VENTURES INC.

HOPE 2 AND 3 CLAIMS
SONORA ISLAND, NANAIMO M.D.

ADIT # 2

Project No:		By:	T. V.
Scale:	1 : 200	Drawn:	J. S.
Drawing No:		Date:	MARCH 1996.

Ashworth Explorations Limited



VIEW LOOKING SOUTH - SOUTHWEST (188°)

LEGEND

- Chloritic schist, variable altered
- Quartzite layers
- Quartz vein
- Tailings (adit floor)
- Rock sample location, Au ppb, Cu ppm

FIGURE 10

0 1 2 3 4 m

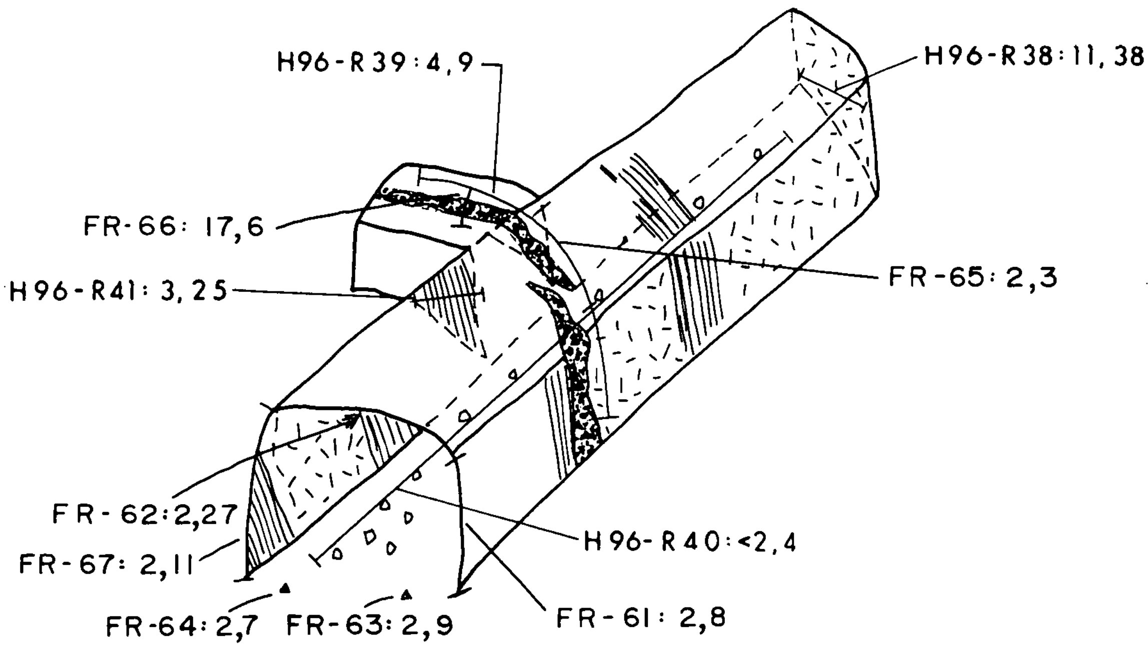
AQUISTAR VENTURES INC.

HOPE 2 AND 3 CLAIMS
SONORA ISLAND, NANAIMO M.D.

ADIT # 3

Project No:		By:	T. V.
Scale:	1 : 100	Drawn:	J. S.
Drawing No:		Date:	MARCH 1996.

Ashworth Explorations Limited



VIEW LOOKING SOUTHEAST (164°)

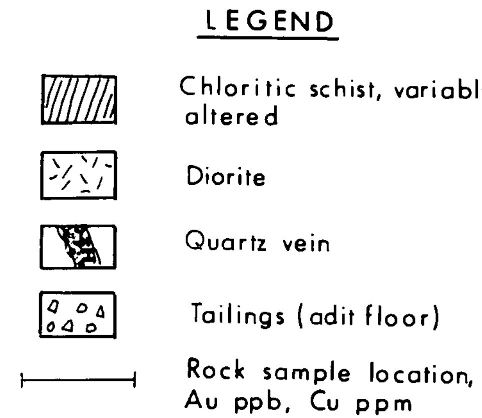
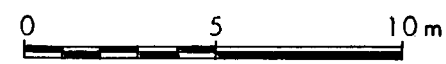


FIGURE 11



AQUISTAR VENTURES INC.

HOPE 2 AND 3 CLAIMS
SONORA ISLAND, NANAIMO M.D.

ADIT # 4

Project No:		By:	T. V.
Scale:	1 : 200	Drawn:	J. S.
Drawing No:		Date:	MARCH 1996.

Ashworth Explorations Limited

the shoreline, and one adit reported at about 125 meters elevation mentioned in the 1929 Annual Report of the Minister of Mines, B.C. The two 60 foot shafts mentioned as located just above #3 adit were not located, but one more adit (#4) was located at 230 meters above sea level. This adit was not mentioned in any report on the property.

Quartz veining is found in all of the main units outlined by the 1996 field work and is most abundant within the deformed metasedimentary zone. These veins, lenses, pods, and veinlets range from 1 cm to 1 meter in width and are generally discontinuous because of boudinage. The quartz veins and metasedimentary rocks generally contain from 1 to 10% fine grained pyrite, pyrrhotite and chalcopyrite as streaks and disseminations. The main diorite and granodiorite bodies generally contain less than 5% disseminated sulfides.

The 1996 geological work on the property included detailed mapping and sampling of the four adits plus sampling of quartz-pyrite as well as other mineralization encountered in outcrop. Results of this sampling have been included on the main geological map (Figure 5), and on diagrams of the four adits included here as Figures 8, 9, 10, and 11. Results of the adit sampling have been tabulated below and the analytical results have been placed in Appendix II along with the sample descriptions.

ADIT ROCK SAMPLE ASSAYS

Adit/location	Sample No. H96-	Type	Width (m)	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
1 @ entrance	R 10	Chip	1.5	3	<0.3	65	<3	49
1 @ 7 m	R 16	Chip	2.0	<2	<0.3	37	14	36
1 @ 10 m	R 17	Chip	1.0	2	<0.3	18	<3	42
1 @ 15 m	R 18	Chip	1.5	4	<0.3	50	<3	79
1 @ 18 m	R 19	Chip	1.0	<2	<0.3	68	<3	100
1 @ 19 m	R 20	Chip	2.5	3	<0.3	19	<3	64
2 @ entrance	R 24	Chip	1.5	12	<0.3	17	<3	68
2 @ back wall	R 21	Chip	1.5	14	<0.3	14	<3	35
2 @ 8 m	R 22	Chip	1.5	21	0.3	59	8	79
2 @ 3 m	R 23	Chip	2.0	20	<0.3	59	3	89
3 @ back wall	R 33	Chip	1.5	48	0.9	15	4	57
3 @ E wall	R 34	Chip	2.0	29	<0.3	35	6	97
3 @ 2 m W	R 35	Chip	1.0	127	0.4	10	7	17
3 @ floor	R 47	Grab	5.0	11	<0.3	10	3	13
4 @ back wall	R 38	Chip	1.5	11	<0.3	64	5	80
4 @ W wall	R 39	Chip	3.0	4	<0.3	9	3	10

Adit/location	Sample No. H96-	Type	Width (m)	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
4 @ entrance	R 40	Grab	-	<2	<0.3	4	3	4
4 @ E wall	R 41	Chip	1.5	3	<0.3	25	7	86
4 @ face	FR 61	Chip	0.2	2	<0.3	8	5	23
4 @ face	FR 62	Chip	2.0	2	<0.3	27	13	58
4 dump inside	FR 63	Float	-	<2	<0.3	9	<3	21
4 @ entrance	FR 64	Float	-	<2	<0.3	7	9	53
4	FR 65	Chip	0.6	2	<0.3	3	3	2
4 @ roof	FR 66	Chip	0.4	17	<0.3	6	3	7
4 @ entrance	FR 67	Chip	0.3	3	<0.3	11	3	35

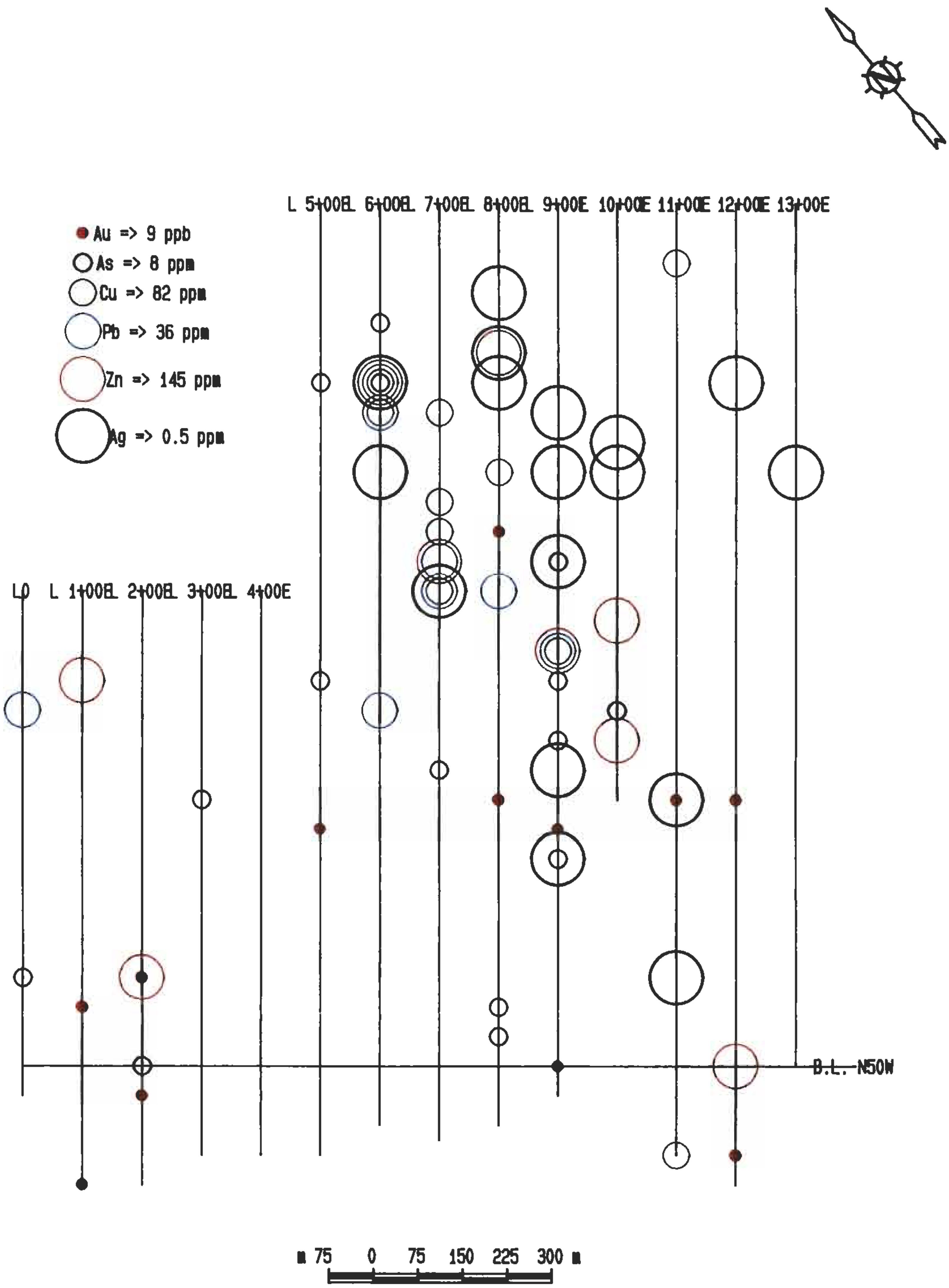
All four of the adits lie within the altered, folded northwest trending metasedimentary screen which lies between massive diorite and granodiorite. Rock exposed in the three lower adits includes quartz veins and lenses with minor pyrite, pyrrhotite, and rare chalcopyrite enclosed within chloritic schist, with quartzite and occasional marble. Deformation is marked by the strongly boudinaged character of the quartz veins, and metasedimentary rocks. Adit #4 was drifted on strongly altered 'diorite', or amphibolite cut by quartz veins and also displays shearing and boudinage. Assay results of samples from the four adits suggest that the best mineralization tested ranges as high as 127 ppb Au in adit #3 over a width of 1.0 meters. Copper values were highest in adits #1 and #2 ranging up to 68 ppm in chlorite schist from adit #1.

General mineralized samples collected from the grid area also include a variety of materials such as pyritic quartz veins, chlorite schist, rusty hematitic and limonitic metasediment, schistose diorite/amphibolite, aplite, leucogranite, and pegmatite. Float samples including pieces of quartz from large boulders found near the end of Line 6+00E were also taken for analysis. All of these field samples have been tabulated in the following table.

ROCK SAMPLE ASSAYS

Sample No. H-96	Type	Width (m)	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
R 1	Grab	-	3	<0.3	13	15	23
R 2	Chip	1.0	<2	<0.3	29	<3	42
R 3	Chip	1.0	6	<0.3	31	5	43
R 4	Chip	1.0	3	<0.3	59	5	24
R 5	Chip	1.5	3	<0.3	63	9	75
R 6	Chip	1.0	7	0.3	13	17	17

Sample No. H-96	Type	Width (m)	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm
R 7	Chip	2.0	2	<0.3	61	17	55
R 8	Chip	1.5	2	<0.3	5	<3	66
R 11	Chip	0.75	2	0.5	15	13	20
R 12	Chip	1.5	6	<0.3	50	<3	85
R 13	Chip	1.5	3	<0.3	33	<3	51
R 14	Chip	1.5	<2	<0.3	2	3	2
R 15	Chip	1.0	<2	<0.3	9	8	75
R 25	Chip	0.75	2	<0.3	73	8	36
R 26	Chip	0.75	2	<0.3	52	7	19
R 27	Chip	0.75	3	<0.3	85	7	69
R 28	Chip	0.75	2	<0.3	98	<3	55
R 29	Grab	-	<2	<0.3	15	<3	25
R 30	Chip	1.5	<2	<0.3	56	<3	44
R 31	Chip	1.5	2	<0.3	48	3	45
R 32	Chip	1.0	4	<0.3	59	6	27
R 36	Chip	1.5	3	<0.3	67	9	66
R 37	Chip	2.0	4	<0.3	6	<3	3
R 42	Chip	0.20	2	<0.3	7	3	9
R 43	Grab	-	4	<0.3	56	28	171
R 44	Chip	1.0	<2	<0.3	19	7	20
R 45	Chip	0.5	34	<0.3	5	3	3
R 46	Chip	0.75	2	<0.3	37	3	51
R 48	Grab	-	12	<0.3	7	4	20
R 49	Chip	1.0	<2	<0.3	5	5	22
R 50	Chip	0.5	2	<0.3	16	5	7
R 51	Chip	1.5	<2	<0.3	3	7	70
R 52	Chip	1.0	0.001 opt	1.6	44	23	71
R 53	Chip	1.0	<0.001 opt	1.5	36	20	54
R 54	Chip	0.25	<0.001 opt	0.9	11	25	60
R 55	Chip	1.0	0.001 opt	0.8	77	15	79
FR 68	Chip	0.3	3	0.6	63	<3	35
FR 69	Float	-	<2	0.5	41	54	116
FR 70	Chip	2.5	2	<0.3	14	4	10
FR 71	Float	-	3	<0.3	36	7	9
FR 72	Float	-	<2	<0.3	8	13	15
FR 73	Chip	3.0	<2	<0.3	58	9	54
FR 74	Float	-	<2	<0.3	9	3	6



EW Grove Consultants
4581 Boulderwood Drive
Victoria, B.C.
V8Y 3A5

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AQUISTAR VENTURES INC. - HOPE 2 & 3 CLAIMS
SONORA ISLAND, B.C.; NANAIMO M.D.
COMPOSITE 1996 GEOCHEM SOIL SURVEY ANOMALIES

FIG. 12

Of the above field samples the highest gold values were found in quartz-pyrite veins (+ pyrrhotite), and quartzitic and chloritic rocks at the extreme southeast end of the grid.

GEOCHEMICAL SURVEYS

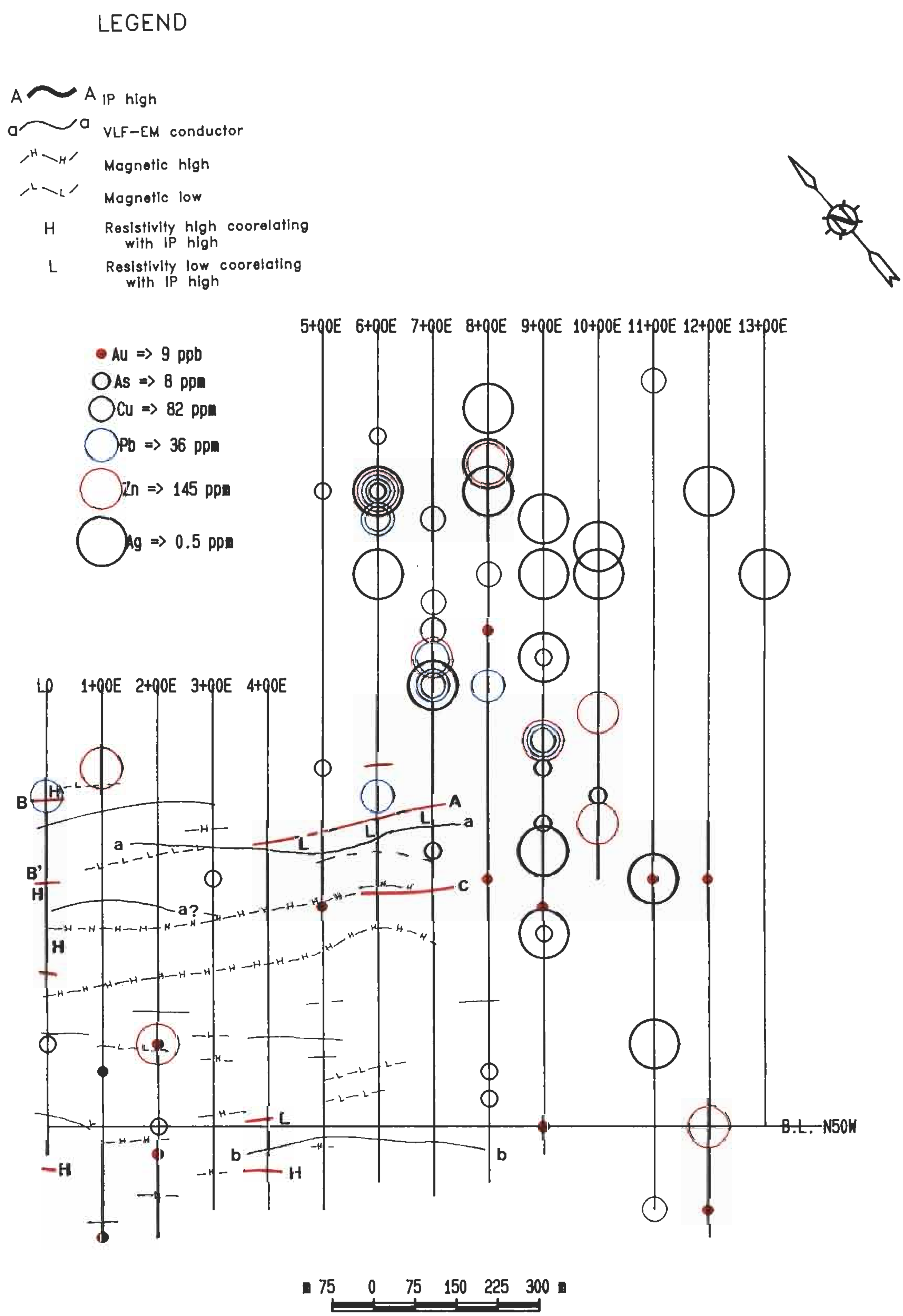
Geochemical surveys completed on Sonora Island in 1984 and 1985 along the coast from Hall Point southeast were analyzed in the field by simple colorimetric methods (Krutz, 1984, 1985). This work concentrated on the copper and zinc potential of the shear zone. Values were reported as 75 ppm for both copper and zinc.

In 1984 another survey was completed over a small area immediately southeast of the #1 and #2 adits. Of the 32 soil samples submitted for ICP analysis only 6 were reported at 10 ppb Au.

The 1996 soil sample program was considerably more extensive and covered about 1.5 km scutheasterly along the metasediment screen as well as part of the amphibolitized volcanics on the north. The total number of samples taken and analyzed by ICP methods was 295.

Geostatistical evaluation of the 1996 soil results gave anomalous values as: Au - 9 ppb, Ag - 0.5 ppm, As - 8 ppm, Cu - 82 ppm, Pb - 36 ppm, and Zn - 145 ppm. The analytical results, geostatistical calculations, graphs, and individual element plots have been included in this report as Appendices III and IV.

A composite geochemical soil anomaly map for the six elements has been presented here as Figure 12. This map displays a broad, northerly trending anomalous zone crossing both the metasedimentary screen, and the adjacent amphibolite. Silver, the dominant trace element in this anomalous area is accompanied by several other anomalous elements but only one gold anomaly. Most of the anomalous gold samples lie in a NW-SE line near the metasediment/diorite contact. Of these one anomalous gold value fell near #4 adit.



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Software by GEMCOM Services Inc.

AQUISTAR VENTURES INC. - HOPE 2 & 3 CLAIMS
SONORA ISLAND, B.C.; NANAIMO M.D.
COMPOSITE 1996 GEOCHEMICAL SOIL AND GEOPHYSICAL SURVEY ANOMALIES

FIG. 13

GEOPHYSICAL SURVEYS

Geophysical work performed on the Sonora Island HOPE claims included magnetics, VLF-EM, IP and Resistivity surveys over part of the grid from Line 0+00 to Line 7+00E. The geophysical report and accompanying plans have been included here in total as Appendix V. The surveys were not extended over the entire grid, and particularly to the southeast because of a variety of problems. Both the soil geochemistry and geophysical anomalies have been included here as Figure 13.

In summary the geophysical work revealed several IP/resistivity, and VLF-EM anomalies. IP high 'A' which extends from L4+00e TO L7+00E lies entirely within the complex screen zone and is roughly paralleled by VLF-EM anomaly 'a'. The southerly contact of the metasediment/diorite contact is marked by a discontinuous magnetic low. IP high 'C' corresponds closely to a mag high and several anomalous gold sites suggesting a mineralized NW/SE trending zone within 'diorite' adjacent to the metasedimentary screen. Because of the prior assumption that any significant gold mineralization would be found in the central metasedimentary zone and the general lack of outcrop only two rock samples were taken near the diorite contact zone.

CONCLUSIONS

Geological mapping in 1996 has shown the presence of a complex NW/SE trending metasedimentary/igneous zone about 200 meters wide lying between a generally massive granodiorite at the north and a foliated to massive diorite over a length of at least 1.5 kilometers. The granitic unit has also intruded flow banded to massive basalt which extends towards Hall Point. Along the easterly coast of the island the volcanics have been extensively sheared and cut by faults and dikes. In the northern grid area the volcanic unit has been amphibolitized and marked by a strong foliation.

Four adits probably all driven during 1929 to test quartz-sulfide mineralization localized within the metasedimentary/igneous screen were mapped and sampled in 996. Analyses of materials from these workings produced only low results. The best results were from samples at the southeast end of the grid with assays as high as 0.001 opt Au. The two 60 foot deep shafts driven in 1929 near Adit #3 and from which it has been surmised that 14 tons of ore were shipped were not located because of snow, thick slash, and very dense bush.

Geochemical soil survey results indicate the presence of a broad silver anomaly lying north of the metasedimentary zone in amphibolite. A second linear gold anomaly has been indicated to lie within the diorite parallel to the diorite/ metasediment contact.

Geophysical surveys which were completed over only part of the grid indicated one IP high accompanied by a VLF-EM anomaly within the metasedimentary complex along the central adit #3-adit #4 zone. Another IP high with a corresponding magnetic high lies entirely within the diorite paralleling the contact. This latter IP-mag anomaly is closely matched by geochemical gold anomaly.

The 1996 work has indicated the presence of at least three potential rock/structural situations in which gold-quartz-sulfide mineralization occur on the Hope property. These are:

- 1) the metasedimentary/igneous zone from which 14 tons containing 29 ounces gold, 46 ounces silver, and 62 pounds copper has been produced and could be similar to the Doratha Morton zone;
- 2) the diorite contact area marked by both geochemical and geophysical anomalies, and could be a Thurlow Gold situation; and
- 3) the amphibolite/schist structural zone marked by a broad silver anomaly.

RECOMMENDATIONS

The geochemical soil and in particular the composite geochemical/ geophysical anomalies should be tested by extensive trenching accompanied by geological mapping and sampling. These sites are located at L6+00E/11+50N and L7+00E/8+00N and spaced across the IP conductor between adits #3 and #4. Sites in the diorite at L5+00E/4+00N, L8+00E/4+50N, L9+00E/4+00N, L11+00E/4+50N and L12+00E/4+50N.

The geochemical soil survey with accompanying geology and sampling should be extended about 800 meters southeasterly to the claim limit. The area near adit #3 should be searched carefully for the shafts.

This work will require further trail and line cutting and could be managed using a beach camp.

If results warrant the geophysical surveys should be extended.

It is estimated that this proposed work will cost about $154,000 for phase I and $69,500 for phase II.

REFERENCES

Minister of Mines Annual Reports, B.C.
1919, 1928, 1929, 1936

Minfile: Energy, Mines & Petroleum Resources, B.C.

Assessment Reports, B.C.: 13179, 14584

Dolmage, V. (1931): Report on the Thurlow Gold Mines.

Harris, C.R. (1983): Report on Doratha Morton Property, Phillips Arm, B.C.

MacLeod, J.W. (1984): Report on the Sonora Group.

Roddick, J.A. (1973): Notes on the Stratified Rocks of Bute Inlet Map Area, G.S.C. Open File 480.

1996 EXPLORATION BUDGET - HOPE PROPERTY

PHASE I

1.	Camp, supplies, rentals, fuel, boat, room & board @ $80/man/day		$20,000
2.	Trenching, pluggers, powder, fuel, materials, men		30,000
3.	Geology, mapping, sampling, 1 geologist, 1 assistant		15,000
4.	Geochemistry, sample prep and analysis soils and rocks		25,000
5.	Line cutting		15,000
6.	Transportation, to and from property		5,000
7.	Project preparation, maps, freight, sundries		6,000
8.	Supervision, on property, reports		15,000
		Sub-Total	131,000
		Contingency @ 10%	13,000
		G.S.T. @ 7%	10,000
		TOTAL	**$154,000**

PHASE II

1.	Camp, room & board		5,000
2.	Geophysical Surveys, including mob/demob		35,000
3.	Geology, sampling, mapping etc.		5,000
4.	Transportation		4,000
5.	Supervision, reports		10,000
		Sub-Total	59,000
		Contingency @ 10$	6,000
		G.S.T. @ 7%	4,500
		TOTAL	**$69,500**

CERTIFICATE

I, Edward W. Grove, of the Municipality of Saanich, do hereby certify that:

1. I am a consulting geologist with an office at 4581 Boulderwood Drive, Victoria, British Columbia.

2. I am a graduate of the University of British Columbia (1955) with a Master's degree, Honours Geology (M.Sc. Hon. Geol.) and a graduate of McGill University (1973) with a doctorate in Geological Sciences (Ph.D.).

3. I have practised my profession continuously since graduation while being employed by such companies as the Consolidated Mining and Smelting Co. of Canada Ltd., British Yukon Exploration Ltd., the Quebec Department of Natural Resources, and the British Columbia Ministry of Energy Mines and Petroleum Resources. I have been in corporate consulting practice since January 1981.

4. This report is based on the writer's knowledge of the general area, a review of the technical reports, data and maps cited herein, and the writer's visit to the HOPE 2 and 3 claims on February 24, 1996.

5. I have no direct, indirect or contingent interest in Aquistar Ventures Inc. or in the HOPE 2 and 3 claims, or any mineral properties owned by David A. Heyman, or Ashworth Explorations Limited.

6. I am a member in good standing of the Association of Professional Engineers of British Columbia.

7. I consent to the use of this report in a Prospectus or Statement of Material Facts.

June 10, 1996

Victoria, B.C.

Edward W. Grove, Ph.D., P.Eng.

SECTION I

APPENDIX I

Petrography

Vancouver Petrographics Ltd.

8080 GLOVER ROAD, LANGLEY, B.C. V3A 4P9
PHONE (604) 888-1323 • FAX (604) 888-3642

PETROGRAPHIC REPORT ON 3 THIN SECTIONS, HOPE CLAIM # 530

Report for: Fayz Yacoub — Invoice 960293
Ashworth Explorations Limited
405-609 West Hastings Street
Vancouver, B.C. V6B 2W4. — May 27, 1996.

P1: AMPHIBOLITIC ?DIABASE (FINE-GRAINED AMPHIBOLE-EPIDOTE-FELDSPAR)

Collected from "volcanic andesitic rock"; hand sample is dark green, fine- to medium-grained, and cut by a stockwork of thin white veinlets that are harder than steel; some stain yellow for K-feldspar. The rock shows no reaction to cold dilute HCl; traces of sulfide may be weakly magnetic. Modal mineralogy in thin section is approximately:

Amphibole (?hornblende)	60%
Epidote (?clinozoisite)	15%
Plagioclase (?)	10%
Chlorite	5%
Quartz	5%
Sericite (after plagioclase)	2%
K-feldspar (secondary)	1-2%
Sphene	1-2%
Opaque	<1%

This sample may be roughly described as an amphibolite, composed mostly of fine-grained amphibole, epidote-group mineral and interstitial very fine-grained, partly sericitized ?plagioclase feldspar. In places chlorite and quartz are common; veinlets to 0.5 mm thick are mostly epidote-group mineral and minor K-feldspar.

Most of the rock consists of subhedral amphibole of about 0.2-0.3 mm size, with medium green pleochroism and extinction angle about 20 degrees suggesting ?hornblende. Intergrown with the amphibole are patches and lenses of epidote-group mineral (lack of pleochroism suggests Fe-poor composition, or clinozoisite) as sub- to euhedral crystals to 0.5 mm size. Fine-grained sphene as euhedral crystals to 0.1 mm is common mixed with the epidote-group mineral, and there are traces of opaques (possibly sulfide, partly oxidized to limonite, or ?magnetite) as subhedral crystals to 0.2 mm size. The opaques are not clearly associated with the veining, however.

Between the mafic minerals are smaller, mainly elongate areas of extremely fine-grained ?feldspar and quartz, mainly of 10-30 microns diameter. Because of the fine grain size and lack of euhedral crystals, it is difficult to be sure of the identity of most of this material, but in places somewhat coarser grains (to 0.1 mm) are twinned, and some places there is significant alteration to sericite, suggesting plagioclase; rare veinlets have lower relief than epoxy, suggesting K-feldspar, as subhedral crystals to 0.1 mm size. It is not possible to be sure, but in some areas where chlorite is most abundant, forming subhedral flakes to 0.2 mm diameter, the clear mineral in interstices between mafic minerals may be quartz. Chlorite is length-fast with weakly anomalous birefringence, suggesting moderate Fe:Mg ratios near 0.5. All the signs are that this is a mafic igneous rock (abundant amphibole, epidote, sphene; minor plagioclase) but not likely a volcanic unless it has been significantly recrystallized by
[redacted]

P2: PARTLY CRUSHED, GRANULATED GRANITIC ROCK, FRACTURED AND VEINED BY MINOR SERICITE-CHLORITE-OPAQUE

Collected from "rhyolitic dike"; hand sample is white, granulated or crushed-looking, harder than steel, non-magnetic, with minor limonite and fracturing but no reaction to cold dilute HCl. The etched and stained slab shows that it is medium-grained, composed essentially of white (plagioclase), yellow (K-feldspar) and grey (quartz) with a granitic rather than rhyolitic texture. Modal mineralogy in thin section is approximately:

Plagioclase (?oligoclase)	40%
K-feldspar (?orthoclase; partly secondary)	30%
Quartz (partly secondary)	25%
Clay, sericite	2%
Chlorite	1-2%
Opaque (?limonite, trace rutile)	1%
Apatite	<1%

This is a medium-grained granitic rock, composed of finely twinned subhedral plagioclase to 3 mm size (partly altered to K-feldspar) and anhedral K-feldspar to 2 mm, cut and veined by anhedral, crushed and granulated quartz to 0.5 mm size.

Twinning of plagioclase (extinction Y^010 about 5 degrees) and relief near that of quartz suggests a composition near oligoclase, about An_{20}. The twinning is commonly bent (deformed) and extinction is undulose, implying strain. K-feldspar crystals do not show the grid twinning of microcline, and therefore may be orthoclase. Both feldspars show minor alteration to fine cloudy clay (1-5 microns) and subhedral sericite (10-20 microns).

Quartz appears to invade and replace the feldspars, and is strongly strained, with undulose extinction, granulatioin, and sutured boundaries. In places it occurs in elongated areas that are vein-like, but elsewhere it probably forms the crushed remnants of primary quartz. Minor accessory apatite forms euhedral prisms to 0.15 mm long in quartz.

The rock is cut by narrow fractures composed of variable amounts of sericite, chlorite and opaques. Sericite forms subhedral flakes to 0.1 mm; chlorite, pale green length-fast subhedral flakes to 50 microns (probably Fe:Mg ratio near 0.5) containing traces of needle-like rutile to 15 microns long. Opaques form anhedral aggregates up to 0.5 mm across, possibly sulfides that are mainly oxidized to limonite and are surrounded by limonitic stains.

This appears to be a granitic rock, rather strongly crushed and with minor veining by sericite-chlorite-?sulfide (oxidized to limonite).

P3: LAMINATED METAMORPHIC ROCK OF MAFIC COMPOSITION (CLINOPYROXENE-PLAGIOCLASE-K-FELDSPAR-?QUARTZ-AMPHIBOLE); MINOR OXIDIZED PYRITE

Collected from a "metasedimentary, well-banded amphibolite schist"; hand sample is rusty, oxidized, with abundant limonite stain along layering and fractures, but there is minor sulfide remnant in the core of the sample. There is a green (?vegetable) stain on the outside but the rock (fine-grained, white to buff) does not look dark enough to warrant the term amphibolite; it contains significant K-feldspar, but is not magnetic and does not react to cold dilute HCl. Modal mineralogy in polished thin section is approximately:

Clinopyroxene	35%
Plagioclase (?andesine)	30%
K-feldspar	15%
?Quartz	10%
Amphibole (?tremolitic)	5%
Limonite (goethitic)	3%
Epidote (?clinozoisite)	<1%
Pyrite	<1%

This is a fine-grained, metamorphosed mafic rock composed mainly of granular pyroxene and feldspar with possible quartz, in places mixed with minor amphibole. Clinopyroxene (extinction angle near 40 degrees) forms sub- to euhedral crystals of about 0.1-0.2 mm diameter that are colourless to very pale green and lack pleochroism. In places, amphibole (extinction angle near 15 degrees) does not obviously replace pyroxene; intstead it forms bladed euhedral crystals to 0.4 mm long that are also very pale green and not obviously pleochroic (possibly tremolitic). Pyroxene shows traces of alteration to fine(<0.1 mm) subhedral colourless epidote (?clinozoisite).

The matrix is composed of 50-100 micron sized, subhedral to anhedral crystals of feldspar and possibly quartz. Rare twinning with extinction angle Y^010 of around 20 degrees suggests plagioclase of about andesine composition. Lack of twinning in the matrix grains and relief of plagioclase very close to that of quartz makes the identification and quantification of quartz uncertain, but in the etched slab, plagioclase shows up as buff to creamy areas forming the bulk of the sample. K-feldspar, with negative relief, forms clear subhedral crystals that are abundant in certain layers and absent in others.

Pyrite is the only sulfide noted, forming sub- to anhedral aggregates up to 0.5 mm size, mainly partly to completely oxidized to limonite along fractures and margins, or rare euhedral cubes to 0.25 mm diameter. Red-brown (goethitic) limonite is common throughout the rock as subhedral crystals to 0.15 mm that possibly pseudomorph former ?sulfides, and amorphous stains (transported limonite) in silicate minerals. Sulfides and limonite are not obviously associated with fracturing.

This is a gneissic rock rich in clinopyroxene and intermediate plagioclase, but with abundant K-feldspar and possibly quartz as well; amphibole is minor. It could be a metamorphosed mafic igneous rock such as gabbro or monzodiorite; sulfide mineralization is minor and mainly oxidized to limonite.

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CHBLeitch

SECTION II

APPENDIX II

Rock sample descriptions and Laboratory analyses

HOPE 2 & 3
Rock Sample Descriptions

Sample # H-96	Description
R1	Shoreline exposure, 100 m. northwest of Line 0E/7+00N. Recrystallized, moderate to strongly foliated biotite leucogranite. Intruded by openly folded, 50 cm-wide, pyrite-bearing quartz vein. SAMPLE H96-R1, sample across limb of quartz vein.
R2	Same locality as R1. 10 m-wide enclave of fine-grained, thinly banded, chlorite-rich schist within foliated leucogranite. Schist contains 2-5% finely disseminated pyrite. SAMPLE H96-R2, sample over ~1 m. of pyritic schist.
R3	Shoreline exposure, near leucogranite - schist contact. Thinly banded chlorite and epidote-rich schist, containing 1-5% finely disseminated pyrite and thin mm-scale stringers. Banding in schist is folded, about SE-plunging axes. SAMPLE H96-R3, sample across 1 m-wide zone of pyrite-bearing schist.
R4	Shoreline exposure, west of leucogranite - schist contact. Thinly banded, strongly lineated, chlorite-rich schist intruded by abundant discordant and concordant, leucogranite veins. Schist contains 10's of cm- to m-scale hematitically altered zones, containing 2-3% disseminated pyrite. SAMPLE H96-R4, chip sample over ~1 m. of hematitically altered zone.
R5	Same locality as R4. Strongly lineated, chlorite-rich schist. Lineations plunge shallowly towards the south. Schist contains 10's of cm- to m-scale hematitically altered zones with 1-2% disseminated pyrite. SAMPLE H96-R5, chip sample over 1.5 m. of altered zone.
R6	Shoreline exposure. Thinly banded, chlorite-rich schists intruded by 10's of m-scale leucogranite sills? Locally, granite sills contain quartz-rich zones, probable deformed veins. SAMPLE H96-R6, sample over ~1 m. of quartz boudin within granite sill.
R7	Shoreline exposure. Contact zone of leucogranite sills and well banded schists. Schist is rusty weathering, hematitically altered and contains 2-5% pyrite with minor associated chalcopyrite and pyrrhotite, as disseminated grains and mm-scale stringers. SAMPLE H96-R 7, chip sample over 2 m. of rusty zone.
R8	Shoreline exposure. Zone of well banded chlorite- and epidote-rich schist interlayered with 10's of cm-scale quartzite and carbonate (dolomite?) layers. Carbonate layers contain rotated clasts suggesting a dextral shear sense. Lineations plunge moderately (~ 40°) towards the southwest. Mylonitic fabric developed in all units with exception of late, discordant leucogranite veins. Exposure contains 10's of cm- to m-scale rusty weathering zones containing 1-2% disseminated pyrite. SAMPLE H96-R8, chip sample of rusty zone across ~1.5 m.
R9	Entrance of Adit 1. Interlayered chlorite- and epidote-rich schist and cm-scale quartzitic bands. Minor hematitic and limonitic alteration containing 1-2% disseminated pyrite. SAMPLE H96-R9, sample over 1.5 m. of altered zone.
R10	Entrance of Adit 1. 1.5 m-wide, limonitic altered quartzitic band with 1% disseminated pyrite. SAMPLE H96-R10, sample over 1.5 m. of altered quartzite.

Sample # H-96	Description
R11	Shoreline exposure. On strike with Adit 2. Interlayered chloritic schist, quartzite and minor carbonate with well developed mylonitic fabric. Units intruded by cm-scale quartz veins. Mineral lineation is subhorizontal, plunging towards NW. SAMPLE H96-R11, chip over ~75 cm. of weakly limonitic altered schist, quartzite, quartz vein zone.
R12	Shoreline exposure, immediately west of schist/diorite contact. Strongly foliated and sheared diorite containing 2-3% disseminated pyrite. SAMPLE H96-R12, chip sample of altered diorite ~1.5 m.
R13	Shoreline exposure ~125 m. west of R12. Zone of strongly foliated diorite with sheared mafic-rich matrix, containing 1-2% disseminated pyrite. SAMPLE H96-R13, chip across 1.5 m. of strongly sheared diorite.
R14	Shoreline exposure. 1.5 m-wide, openly folded, muscovite-bearing, alkali feldspar pegmatite intruding foliated diorite. SAMPLE H96-R14, chip across ~1.5 m-wide pegmatite.
R15	Shoreline exposure. Fine-grained, brecciated diorite, 1-2% disseminated pyrite. SAMPLE H96-R15, chip over ~1 m-wide, strongly altered zone.
R16 Adit 1	~7 m. into Adit 1. Interlayered schist and quartzitic bands. Limonitic altered and containing 1% disseminated pyrite. SAMPLE H96-R16, chip across 2 m-wide roof zone.
R17 Adit 1	~10 m. into Adit 1. Limonitic and locally hematitically altered SE trending quartzitic layer/lens, with 1-2% disseminated pyrite. SAMPLE H96-R17, chip across ~1 m. of altered quartzite.
R18 Adit 1	~15 m. into Adit 1 (West Wall). Strongly limonitic altered, chlorite-rich schist containing 1-2% disseminated pyrite. SAMPLE H96-R18, chip sample over 1.5 m. of altered schist.
R19 Adit 1	18 m. into Adit 1 (East Wall). Thinly banded, variably altered (silicified and limonitic) chlorite- and epidote-rich schist with 1-2% disseminated pyrite. SAMPLE H96-R19, sample over 1 m-wide zone of altered zone.
R20 Adit 1	Back wall of Adit 1, ~19 m. into the adit. Interlayered, thinly banded, submylonitic chlorite schist and quartzitic bands. Quartzitic layers are relatively unaltered, schist is variably limonitic altered. Minor (1-3%) disseminated pyrite. SAMPLE H96-R20, chip across 2.5 m.
R21 Adit 2	Back wall of Adit 2. Thinly banded, fine-grained, siliceous chlorite schist with a 10-20 cm-wide quartzite layer. Contains 1-3% finely disseminated pyrite. C-S fabric relationship with mylonitic zone, suggests dextral shear sense. SAMPLE H96-R21, chip ~1.5 m. of back wall.
R22 Adit 2	~8 m. into Adit 2 along west wall. Interbanded silicified schist and quartzitic layers. Locally limonitic altered with 1-2% disseminated pyrite. SAMPLE H96-R22, sample across ~1.5 m.

HOPE 2 & 3
Rock Sample Descriptions

Sample # H-96	Description
R23 Adit 2	~3 m. into Adit 2. Variably limonitic altered and silicified interbanded schist and quartzite. ~1% disseminated pyrite. SAMPLE H96-R23, sample across 2 m-wide altered roof zone.
R24	Adit entrance. Strongly altered (limonite and hematite) schist containing 2-3% disseminated pyrite. SAMPLE H96-R24, sampled over ~1.5 m. of altered zone.
R25	Line 0E/5+00N. 1 m-wide outcrop of brown weathering, fine-grained chloritic schist. 1% fine-grained, disseminated pyrite. Banding →178/72. SAMPLE H96-R25, chip across 75 cm.
R26	Line 0E/6+25N. 70 m-long outcrop of recrystallized, foliated leucogranite containing m-scale enclaves of well banded, rusty weathering chloritic schist. Silicification and chloritization pervasive throughout schistose zones. 1-2% disseminated pyrite. SAMPLE H96-R26, chip sample across 75 cm-wide rusty zone.
R27	2 m-wide outcrop along stream. Line 1E/5+50N. Fine-grained, silicified chloritic schist to psammite. Contains 3-5% disseminated *and* thin pyritic stringers. 1% chalcopyrite associated. SAMPLE H96-R27, chip sample across ~75 cm-wide rusty zone.
R28	Medium-grained, chloritized and epidotized diorite. Line 1E/0+25N. Contains 2-3% fine-grained disseminated pyrite as 0.5-1.0 cm-wide aggregates. SAMPLE H96-R28, chip sample over ~75 cm-wide zone.
R29	White weathering, fine-grained supracrustal rock. Possible enclave of sediment within diorite unit. Line 1E/2+00S. Rock is homogeneous and silicified. SAMPLE H96-R29,
R30	Line 2E/6+25N. 70-80 m-long outcrop of white to rusty weathering, fine-grained, silicified and epidotized, gradational into quartz-rich psammite. Outcrop contains m-scale rusty to ochreous weathered zones. No obvious sulphides. SAMPLE H96-R30, chip sample over 1.5 m-wide rusty alteration zone, ~5 m. from leucogranite.
R31	Line 3E/6+05N. Large cliff face outcrop of chlorite-biotite schist with interlayered quartzitic bands. Intruded by cm-scale quartz veins and abundant leucogranite. Outcrop contains m-scale, rusty weathered, hematitically altered zones with 1-3% finely disseminated pyrite. SAMPLE H96-R31, chip sample over 1.5 m-wide zone.
R32	Line 4E/5+80N. 7 m-long outcrop of interbanded chloritic schist and quartzitic zones. Outcrop is locally hematized and silicified, containing 1-2% finely disseminated pyrite. SAMPLE H96-R32, sample across 1 m-wide zone of altered pyritic schist.

* Collected from Adit 3 at Line 4+30E/4+80N.

R33 *Adit 3	Back wall of adit. Interbanded chloritic schist and quartzitic layers, intruded by concordant cm-scale quartz veins. SAMPLE H96-R33, chip sample across 1.5 m.

Sample # H-96	Description
R34 *Adit 3	East wall of adit entrance. Interbanded silicified, epidotized, chlorite schist and recrystallized quartzitic layers. Intruded by cm-scale concordant quartz veins. SAMPLE H96-R34, chip sample across 2 m-wide zone.
R35 *Adit 3	2 m. west of Adit entrance. 1 m-wide, strongly limonitic altered quartz vein. Quartz vein contains 10% muscovite and 1-2% fine-grained disseminated pyrite. SAMPLE H96-R35, sample across 1 m-wide zone.
R36	Line 5E/5+25N, outcrop along stream. 2 m-long outcrop of thinly banded, chlorite- and epidote-rich schist. Locally silicified. Contains 1-3% fine-grained disseminated pyrite and very minor chalcopyrite. SAMPLE H96-R36, chip sample over ~1.5 m.
R37	Line 8+10E/3+00N. 15 m-long outcrop of mafic-rich diorite to amphibolite intruded by a N-S trending zoned pegmatite, with 5-20 cm-wide concordant quartz veins. Diorite/amphibolite contains 1-2% pyrite. No obvious mineralization in quartz veins. SAMPLE H96-R37, chip sample across 2 m-wide zone of quartz veins associated with pegmatite.

** Collected from Adit 4 at Line 8+10E/5+30N.

R38 **Adit 4	Back wall of Adit 4. Epidotized and chloritized diorite containing 2-3% disseminated pyrite. SAMPLE H96-R38, chip sample across 1.5 m.
R39 **Adit 4	Quartz vein along west wall and roof of adit. Vein varies from 25 cm. to ~1 m-wide and trends 108° to 116°, dipping steeply towards the southwest. Contains very minor (1%) fine-grained disseminated pyrite. SAMPLE H96-R39, chip sample of quartz vein along ~3 m. of strike length.
R40 **Adit 4	Quartz vein fragments collected along floor of adit and at the adit entrance. SAMPLE H96-R40,
R41 **Adit 4	East wall of Adit 4. 1.5 m-wide zone of strongly chloritized, locally hematitically altered dioritic rock, adjacent to the quartz vein. Contains 1-3% disseminated pyrite. SAMPLE H96-R41, chip across 1.5 m-wide zone.
R42	25 m. east of Adit 4, in a small stream. Outcrop of well banded chlorite- and quartz-rich metasediments intruded by 10-20 cm-wide concordant quartz veins. SAMPLE H96-R42, chip across ~20 cm-wide quartz vein.
R43	10 m. west of Adit 4, along small stream. 2.5 m-long outcrop of strongly hematitically and locally limonitic altered schist. 1-2% fine-grained disseminated pyrite. SAMPLE H96-R43,
R44	Line 6E/6+00N. Interbanded chlorite- and epidote-rich schist and cm-scale quartzitic layers. 2-4% disseminated pyrite associated with more siliceous zones of the outcrop. SAMPLE H96-R44, chip across ~1 m. of siliceous bands.

Sample # H-96	Description
R45	Line 2+50E/4+50N. 1-1.5 m-long outcrop of epidotized, mafic-rich diorite intruded by a 50-80 cm-wide quartz vein. Vein trends ~148°, dips steeply to the SW and contains 1-2% disseminated pyrite and 1% pyrrhotite. SAMPLE H96-R45, chip sample taken over ~50 cm. POOR EXPOSURE!
R46	Line 33+50E/5+00N. Small outcrop of well banded, chloritic schist and quartzite. Relatively unaltered. Contains 1-3% disseminated pyrite and locally mm-scale stringers. SAMPLE H96-R46, chip sample across ~75 cm.
R47 *Adit 3	Grab sample of quartz vein fragments along floor of Adit 3. SAMPLE H96-R47, sampled along 5 m.
R48	Line 8+35E/5+40N. Outcrop of well banded, silicified chlorite- and epidote-rich schist containing abundant concordant quartzite and amphibolite bands. Intruded by a 10-25 cm-wide concordant quartz vein (trending 158°/86°SW). Quartz vein contains 2-3% disseminated pyrite and 1% pyrrhotite. SAMPLE H96-R48,
R49	20 m. downstream (northwest) of R48. Looks to be extension of quartz vein sampled at R48. Vein is 1-1.5 m-wide, with cm-scale concordant quartz veins. SAMPLE H96-R49, chip across ~1 m. of quartz vein.
R50	Same locality as R44 (Line 6E/6+00N). 10 cm-wide quartz vein within chlorite- and epidote-rich schist. SAMPLE H96-R50, chip across ~50 cm., vein and schist contact.
R51	Shoreline exposure, 200 m. west of baseline. 15 m-long of strongly chloritized and epidotized diorite. Locally silicified and brittly-sheared. SAMPLE H96-R51, sample across ~1.5 m-wide zone.
R52	Line 9E/5+35N. 2.5 m-long outcrop along small stream. Fine-grained, thinly banded chloritic schist with interbanded cm-scale quartzitic layers. 10-80 cm-wide, limonitic altered zones contains 2-5% pyrite and minor pyrrhotite. SAMPLE H96-R52, chip sample across ~1 m-wide of limonitically altered zone.
R53	Line 10+30E/5+50N. 2 m. x 2 m. outcrop along stream. Fine-grained, thinly banded chloritic schist with interbanded quartzitic layers. ~1 m-wide mylonite zone contains 2-5% disseminated pyrite and pyrrhotite. SAMPLE H96-R53, chip sample across ~1 m. of mylonitic zone.
R54 R55	Line 12+60E/5+20N. Vertical cliff face along small stream. Thinly banded, mylonitic, chloritic schist interbanded with quartzitic layers. Chlorite schist and quartzitic layers are locally folded about SE-trending, subhorizontal axes with parallel mineral lineation. Schist and quartzitic layers are strongly limonitic altered, particularly within mylonitic zone. 25 cm-wide concordant quartz vein intrudes schist/quartzite zone. SAMPLE H96-R54, chip sample across 25 cm-wide quartz vein. Contains 2-4% pyrite. SAMPLE H96-R55, chip sample across ~1 m-wide strongly limonitic altered zone. Contains 1-4% disseminated pyrite.

HOPE 2 & 3
Rock Sample Descriptions

Sample # H-96	Description
FR61	White, massive quartz vein strikes 148°, steeply dipping southwest, hosted by thinly banded chlorite-rich schist, contains 1-2% fine-grained pyrite. SAMPLE H96-FR61, chip across 20 cm., collected from the face of Adit 4.
FR62	Banded chlorite schist, strongly silicified, locally hematitically altered, hosting several small quartz veins and veinlets 2-20 cm-wide, minor pyrite dissemination. SAMPLE H96-FR62, chip across 2 m. of the adit face.
FR63	Angular, local quartz vein material, 1-2% fine-grained pyrite, cavities filled with hematite, iron oxides. SAMPLE H96-FR63, float taken from dump material inside Adit 4.
FR64	Float, light grey massive quartz vein material (dump), 1-2% very fine-grained pyrite dissemination inclusions of chlorite schist. SAMPLE H96-FR64, float taken at the entrance of Adit 4.
FR65	Massive, white, creamy quartz (pod) 1.5-2 feet wide, strikes 350°, dipping 20°E, exposed inside Adit 4 and hosted by chloritic schist. SAMPLE H96-FR65, chip across 60 cm. of the pod, mineralization is 1% fine-grained pyrite.
FR66	Quartz vein exposed across the roof of Adit 4, trends 110°/80°-85° southwest, white-massive quartz, minor pyrite dissemination (>1%). SAMPLE H96-FR66, chip across (40 cm.) the vein.
FR67	Massive, white quartz vein 15 cm-wide, disseminated with 2-3% very fine-grained pyrite-pyrrhotite. Hosted by strongly weathered quartz-rich metasediments. SAMPLE H96-FR67, chip over 30 cm. of the vein and the host rock collected at the entrance of Adit 4.
FR68	Rusty, mineralized volcanic basalt outcrop, contains 3-4% sulphide dissemination, mainly pyrite, pyrrhotite and minor chalcopyrite. SAMPLE H96-FR68, chip across 30 cm., taken at Line 7+50E-0+75S, above the road.
FR69	Angular local, milky quartz vein material, contains 2% combined fine-grained pyrite, chalcopyrite as blebs and disseminated sulphides. SAMPLE H96-FR69, float taken at Line 4+00E-0+50S.
FR70	White, creamy medium-grained granitic dyke, strikes 68°-190°, 2-5 m-wide exposed at Line 9+00E-8+25N. >1% very fine-grained pyrite. SAMPLE H96-FR70, chip across 2.5 m. of the dyke.
FR71	Local angular quartz vein material, blebs of pyrite and chalcopyrite in light grey to white massive quartz. SAMPLE H96-FR71, float sample collected on the road at Line 0+00E-0+50N.
FR72	Rusty-dark brown massive quartz, 3' x 4', trace of pyrite, abundant FeO_2. SAMPLE H96-FR72, float sample from local angular boulder on L5+75E - 11+00N.

HOPE 2 & 3
Rock Sample Descriptions

Sample # H-96	Description
FR73	Massive white to creamy, medium-grained granitic dyke, strikes 345°/90', 1-2% very fine-grained pyrite hosted by strongly weathered chlorite schist. SAMPLE H96-FR73, chip across 3 m.
FR74	Local angular dark brown to reddish quartz with abundant FeO_2, trace of pyrite. SAMPLE H96-FR74, float quartz material.

[redacted] ACM[redacted]AL[redacted]ICAL [redacted]ORAT[redacted]S LTD. [redacted] E. [redacted]TING[redacted]ST. [redacted]COUVE[redacted]BC [redacted] 1R6 [redacted] PHO[redacted]604)[redacted]-31[redacted] FAX[redacted]253[redacted]716 [redacted]

GEOCHEMICAL ANALYSIS CERTIFICATE

Ashworth Exploration Ltd. File # 96-0685 Page 1

405 - 609 W. Hastings St., Vancouver BC V6B 4W4 Submitted by: Fayz Yacoub

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
H96-R1	2	13	15	23	<.3	8	3	111	.38	4	<5	<2	<2	4	<.2	3	2	2	.08	.002	<1	12	.05	26	<.01	4	.05	.02	<.01	8	3
H96-R2	6	29	<3	42	<.3	38	6	177	1.33	<2	<5	<2	3	64	<.2	2	4	50	2.26	.076	15	27	.43	21	.08	5	1.25	.13	.03	2	<2
H96-R3	10	31	5	43	<.3	33	8	105	1.14	<2	<5	<2	2	51	<.2	3	<2	31	2.53	.141	10	14	.13	26	.07	5	.48	.05	.02	<2	6
H96-R4	10	59	5	24	<.3	51	10	63	1.62	<2	<5	<2	3	20	<.2	<2	3	29	1.10	.106	10	13	.06	13	.08	3	.19	.05	.03	3	3
H96-R5	11	63	9	75	<.3	54	12	143	1.93	<2	<5	<2	3	22	.4	<2	<2	46	1.09	.064	11	27	.34	18	.09	<3	.46	.05	.04	2	3
H96-R6	3	13	17	17	.3	4	1	74	.51	3	<5	<2	2	3	<.2	3	5	1	.06	.007	2	5	.03	30	<.01	<3	.14	.05	.09	<2	7
H96-R7	28	61	17	55	<.3	56	12	102	2.17	<2	<5	<2	3	12	.3	3	<2	27	.73	.059	11	15	.10	16	.08	<3	.31	.05	.02	4	2
H96-R8	8	5	<3	66	<.3	5	<1	134	.36	<2	<5	<2	<2	32	.3	<2	<2	21	4.31	.055	7	12	.26	18	.08	52	.38	.03	<.01	3	2
H96-R10	10	65	<3	49	<.3	67	19	464	2.51	<2	<5	<2	2	17	.4	<2	2	50	.92	.037	6	96	.60	18	.11	5	.86	.04	.20	<2	3
H96-R11	4	15	13	20	.5	5	2	170	.60	<2	<5	<2	<2	8	.3	4	<2	5	.09	.007	2	9	.10	58	.02	3	.31	.05	.10	3	2
H96-R12	<1	50	<3	85	<.3	7	13	499	3.86	2	<5	<2	<2	42	.4	2	<2	101	1.00	.079	6	9	1.52	85	.20	<3	2.01	.13	.39	<2	6
H96-R13	2	33	<3	51	<.3	8	15	468	2.98	<2	<5	<2	<2	49	.2	2	<2	87	1.62	.090	3	9	1.18	14	.14	3	1.87	.24	.07	<2	2
RE H96-R13	1	33	<3	50	<.3	7	12	460	2.92	<2	<5	<2	<2	48	<.2	<2	2	85	1.59	.087	3	8	1.16	16	.13	6	1.84	.24	.06	<2	3
RRE H96-R13	2	34	<3	51	<.3	4	14	447	2.84	<2	<5	<2	<2	41	.2	2	<2	80	1.47	.091	3	9	1.14	26	.13	<3	1.72	.20	.06	<2	4
H96-R14	1	2	3	2	<.3	1	1	67	.22	<2	7	<2	5	3	<.2	3	<2	2	.05	.003	1	8	.02	8	<.01	<3	.17	.06	.07	4	<2
H96-R15	1	9	8	75	<.3	7	13	649	2.99	4	<5	<2	<2	45	.6	<2	4	61	1.69	.067	5	17	1.43	56	.12	<3	1.77	.04	.10	<2	<2
H96-R16	17	37	14	36	<.3	20	7	251	1.58	<2	<5	<2	<2	23	.2	2	3	34	.91	.039	5	12	.14	36	.07	3	.48	.04	.06	<2	<2
H96-R17	13	18	<3	42	<.3	21	4	284	.71	<2	<5	<2	<2	28	.3	2	4	35	2.26	.031	3	12	.14	50	.03	13	.33	.02	.09	3	2
H96-R18	14	50	<3	79	<.3	64	13	341	1.70	<2	<5	<2	<2	36	.5	2	3	82	2.50	.045	4	23	.33	36	.07	22	.49	.02	.08	<2	4
H96-R19	22	68	<3	100	<.3	55	12	382	1.94	2	<5	<2	<2	39	.6	<2	2	99	4.72	.048	4	22	.38	23	.07	3	.54	.03	.04	2	<2
H96-R20	56	19	<3	64	<.3	22	5	228	.86	<2	<5	<2	<2	26	.3	<2	2	38	2.91	.045	6	14	.12	22	.08	3	.55	.02	.03	<2	3
H96-R21	13	14	<3	35	<.3	19	10	852	1.93	<2	<5	<2	<2	104	.2	<2	4	13	5.29	.043	2	12	.60	67	<.01	<3	.67	.01	.14	<2	14
H96-R22	11	59	8	79	.3	46	13	1188	2.70	<2	5	<2	2	206	1.4	<2	<2	23	7.68	.057	5	18	1.28	128	<.01	3	1.31	.01	.21	<2	21
H96-R23	8	62	4	89	<.3	35	15	1454	3.14	3	<5	<2	2	183	1.1	<2	2	27	8.52	.054	5	22	1.27	79	<.01	3	1.41	<.01	.17	<2	18
RE H96-R23	7	56	3	87	<.3	33	11	1396	3.00	<2	<5	<2	2	177	.5	<2	3	26	8.23	.053	5	22	1.21	72	<.01	<3	1.35	.01	.17	<2	21
RRE H96-R23	8	60	<3	89	<.3	37	14	1351	3.05	<2	<5	<2	2	177	.6	<2	4	26	8.03	.052	4	22	1.22	83	<.01	<3	1.38	.01	.18	<2	22
H96-R24	18	17	<3	68	<.3	22	15	651	2.78	<2	<5	<2	<2	64	.2	<2	<2	25	2.75	.077	4	13	.99	67	<.01	<3	1.10	.02	.15	<2	12
H96-R25	2	73	8	36	<.3	60	15	176	2.09	<2	<5	<2	6	14	<.2	<2	<2	39	.70	.083	13	35	.76	20	.12	4	.80	.04	.14	<2	2
H96-R26	3	52	7	19	<.3	16	5	55	1.79	<2	<5	<2	4	25	.3	3	4	46	.90	.196	12	20	.06	12	.08	<3	.34	.03	.03	<2	2
H96-R27	5	85	7	69	<.3	66	49	299	5.68	2	<5	<2	2	28	1.4	<2	<2	85	1.43	.125	5	31	.85	8	.39	<3	1.28	.11	.02	<2	3
H96-R28	1	98	<3	55	<.3	4	27	676	4.21	<2	<5	<2	<2	63	.3	<2	<2	108	1.51	.155	2	4	1.55	16	.12	<3	2.38	.20	.03	<2	2
H96-R29	1	15	<3	25	<.3	14	12	346	1.69	<2	<5	<2	<2	131	.4	<2	3	73	1.99	.062	4	22	.47	15	.40	3	1.37	.03	.01	<2	<2
H96-R30	5	56	<3	44	<.3	56	15	293	2.30	<2	<5	<2	5	57	.4	<2	<2	64	1.16	.063	16	47	.79	17	.11	<3	2.06	.18	.15	<2	<2
H96-R31	4	48	3	45	<.3	3	8	500	3.10	2	<5	<2	4	15	.7	<2	<2	71	.69	.076	8	10	.99	24	.20	4	1.21	.04	.23	<2	2
H96-R32	2	59	6	27	<.3	18	8	207	2.42	<2	<5	<2	6	15	.2	<2	2	65	.49	.063	13	42	.73	21	.13	4	.89	.05	.06	<2	4
H96-R33	172	15	4	57	.9	9	3	305	.91	<2	<5	<2	<2	16	.6	2	10	11	1.09	.018	1	10	.32	28	.02	<3	.34	.01	.07	<2	48
STANDARD C2/AU-R	25	60	36	131	6.8	76	40	1105	4.02	44	22	8	39	57	21.9	18	22	81	.59	.108	47	65	.90	186	.08	24	1.89	.06	.14	12	453

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: P1 TO P2 ROCK P3 TO P7 SOIL AU** ANALYSIS BY FA/ICP FROM 30 GM SAMPLE.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: FEB 16 1996 DATE REPORT MAILED: Feb 26/96 SIGNED BY ....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
H96-R34	46	35	6	97	<.3	48	11	782	2.81	3	<5	<2	2	58	<.2	2	<2	54	5.59	.052	7	35	1.32	44	.06	5	1.33	.01	.12	4	29
H96-R35	73	10	7	17	.4	20	4	188	1.56	2	<5	<2	<2	4	.2	<2	5	11	.29	.021	1	19	.18	46	<.01	<3	.27	<.01	.12	<2	127
H96-R36	33	67	9	66	<.3	56	10	226	2.68	3	<5	<2	2	11	<.2	<2	<2	57	.95	.047	6	15	.34	17	.08	<3	.37	.03	.02	3	3
H96-R37	5	6	<3	3	<.3	11	<1	61	.26	2	<5	<2	<2	1	<.2	<2	3	1	.02	.001	<1	10	.01	7	<.01	4	.02	.01	.01	<2	4
H96-R38	2	64	5	80	<.3	32	24	934	4.30	3	<5	<2	3	54	<.2	<2	<2	84	4.60	.065	9	43	2.11	29	.05	<3	2.15	.04	.11	<2	11
H96-R39	4	9	3	10	<.3	11	3	183	.66	<2	<5	<2	<2	12	<.2	<2	<2	6	1.19	.008	1	15	.16	14	.01	<3	.19	.03	.03	<2	4
H96-R40	2	4	3	4	<.3	4	1	92	.24	2	<5	<2	<2	5	<.2	<2	<2	2	.92	.001	<1	8	.02	9	<.01	3	.04	.01	.02	4	<2
H96-R41	32	25	7	86	<.3	23	18	914	3.66	3	5	<2	3	43	<.2	3	<2	56	3.71	.064	9	36	1.72	36	.04	3	1.74	.02	.14	<2	3
H96-R42	5	7	3	9	<.3	8	2	309	.49	<2	<5	<2	<2	7	<.2	<2	3	4	.54	.028	1	15	.13	17	<.01	<3	.15	.01	.03	5	2
H96-R43	11	56	28	171	<.3	72	16	493	3.85	15	<5	<2	4	31	<.2	3	<2	113	.43	.034	17	58	1.78	18	.11	<3	2.07	.02	.06	<2	4
H96-R44	5	19	7	19	<.3	7	1	189	.65	2	<5	<2	<2	10	<.2	<2	<2	6	.44	.007	5	10	.14	28	.01	<3	.30	.05	.07	3	<2
RE H96-R44	4	19	5	19	<.3	6	1	187	.62	<2	<5	<2	<2	10	<.2	<2	<2	5	.44	.006	5	10	.13	29	.01	<3	.29	.05	.06	3	<2
RRE H96-R44	5	19	7	23	<.3	11	1	242	.69	2	<5	<2	2	10	<.2	<2	<2	6	.44	.007	5	12	.15	32	.01	<3	.32	.05	.07	<2	<2
H96-R45	2	5	3	3	<.3	5	1	81	.23	<2	<5	<2	<2	1	<.2	<2	<2	1	.02	.001	<1	9	.01	8	<.01	4	.02	<.01	.01	4	34
H96-R46	13	37	3	51	<.3	27	11	460	1.96	<2	<5	<2	<2	15	<.2	<2	<2	76	.66	.050	5	15	.57	12	.08	<3	.80	.03	.01	<2	2
H96-R47	22	10	3	13	<.3	5	1	127	.38	<2	<5	<2	<2	7	<.2	<2	11	3	.36	.003	<1	10	.04	17	<.01	<3	.07	<.01	.04	4	11
H96-R48	6	7	4	20	<.3	30	5	367	1.08	<2	<5	<2	<2	18	<.2	<2	<2	12	1.56	.013	2	30	.44	15	.01	3	.41	.01	.03	<2	12
H96-R49	4	5	5	22	<.3	8	3	245	.56	<2	<5	<2	<2	6	.2	<2	<2	7	.39	.005	<1	15	.26	14	<.01	<3	.24	.01	.02	4	<2
H96-R50	5	16	5	7	<.3	18	4	261	.49	<2	<5	<2	<2	20	<.2	<2	<2	7	2.53	.015	2	20	.06	10	.03	<3	.11	.02	.02	<2	2
H96-R51	<1	3	7	70	<.3	30	7	1562	.80	2	<5	<2	<2	125	.7	2	<2	44	32.17	.052	11	12	1.50	87	.01	4	.87	.02	<.01	2	<2
STANDARD C2/AU-R	24	58	41	122	6.4	74	37	1038	3.85	40	18	7	38	50	22.6	20	19	72	.55	.100	43	64	.86	171	.07	21	1.76	.06	.13	15	466

Sample type: ROCK. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

[redacted]CME[redacted]ALY[redacted]L L[redacted]ATO[redacted] LT[redacted] E.[redacted]TIN[redacted]T.[redacted]OUV[redacted]BC[redacted] 1R[redacted] P[redacted](60[redacted]3-3[redacted] FA[redacted]04)[redacted]171[redacted]

GEOCHEMICAL ANALYSIS CERTIFICATE

Ashworth Exploration Ltd. PROJECT HOPE File # 96-1166

405 - 609 W. Hastings St., Vancouver BC V6B 4W4

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** oz/t
SH96-R52	24	44	23	71	1.6	21	6	475	1.77	6	<5	<2	<2	21	.6	2	<2	72	.93	.048	6	16	.50	23	.08	3	.67	.03	.04	3	.001
H96-R53	13	36	20	54	1.5	17	6	246	1.30	<2	<5	<2	2	15	.2	3	<2	32	.31	.026	5	12	.35	38	.05	<3	.55	.07	.10	<2	<.001
H96-R54	3	11	25	60	.9	6	2	156	.67	2	<5	<2	<2	2	.7	<2	2	2	.08	.003	1	10	.08	21	<.01	<3	.08	.02	.03	4	<.001
H96-R55	2	76	15	77	.7	64	23	706	2.62	<2	<5	<2	3	36	.6	<2	<2	63	.74	.047	9	72	1.99	18	.15	<3	1.96	.04	.11	2	.001
RE H96-R55	2	77	15	83	.8	67	25	745	2.75	<2	<5	<2	3	36	.8	<2	<2	65	.77	.049	9	77	2.11	18	.15	<3	2.01	.04	.10	<2	<.001

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: MAR 28 1996 **DATE REPORT MAILED:** April 8/96 **SIGNED BY**.......D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Ashworth Exploration Ltd. File # 96-1558 Page 1

405 - 609 W. Hastings St., Vancouver BC V6B 4W4

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb
FR-61	<1	8	5	23	<.3	17	4	393	1.01	<2	<5	<2	<2	27	<.2	2	<2	13	2.72	<.001	3	22	.48	5	.02	3	.37	.03	.05	6	2
FR-62	3	27	13	58	<.3	46	11	722	2.30	<2	<5	<2	2	70	<.2	3	<2	42	7.64	.004	6	57	1.43	13	.07	3	1.12	.02	.10	2	2
FR-63	<1	9	<3	21	<.3	4	4	306	1.15	<2	10	<2	12	10	<.2	2	<2	17	.28	.022	9	9	.38	17	.02	<3	.57	.07	.06	5	<2
FR-64	9	7	9	53	<.3	21	7	651	1.79	<2	<5	<2	<2	43	<.2	3	<2	18	4.60	.003	4	31	.64	28	.04	<3	.68	.03	.17	4	<2
FR-65	<3	3	3	2	<.3	3	1	290	.39	<2	6	<2	<2	19	<.2	<2	<2	2	1.51	.003	3	5	.02	25	<.01	<3	.15	.04	.11	5	2
FR-66	19	6	3	7	<.3	6	6	1272	1.28	7	<5	<2	<2	124	.3	<2	<2	4	14.25	<.001	2	12	.15	15	<.01	<3	.20	.01	.12	5	17
FR-67	2	11	<3	35	<.3	35	7	732	1.68	<2	<5	<2	<2	34	<.2	3	<2	28	2.90	.010	4	42	.86	19	.02	3	.69	.02	.07	6	<2
RE FR-67	2	11	3	36	<.3	36	7	738	1.70	<2	<5	<2	<2	35	<.2	4	<2	29	2.9[illegible]	.011	4	41	.87	19	.02	3	.69	.02	.07	6	3
FR-68	33	63	<3	35	.6	19	32	446	6.85	<2	<5	<2	<2	43	<.2	6	<2	114	1.31	.018	1	17	1.58	9	.35	4	1.52	.09	.08	2	3
FR-69	1	4[illegible]	54	116	.5	6	4	507	1.61	4	8	<2	4	3	.4	4	<2	30	.16	.043	4	9	.50	39	.07	<3	.73	.06	.36	<2	<2
FR-70	18	14	4	10	<.3	4	3	262	.82	2	9	<2	2	4	<.2	<2	<2	9	.06	.031	3	6	.19	32	<.01	<3	.32	.05	.08	5	2
FR-71	14	36	7	9	<.3	13	3	107	.88	<2	6	<2	<2	5	<.2	<2	<2	8	.06	.010	1	14	.13	72	.02	<3	.23	.03	.12	6	3
STANDARD C2/AU-R	21	61	40	135	6.6	74	37	1224	4.31	43	19	6	36	54	2[illegible].5	20	19	72	.55	.102	40	67	1.01	198	.07	26	2.05	.07	.17	15	44

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: P1 ROCK P2 TO P3 SOIL AU** ANALYSIS BY FA/ICP FROM 30 GM SAMPLE.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: APR 29 1996 DATE REPORT MAILED: May 7/96 SIGNED BY...... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

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ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

405 - 609 W. Hastings St., Vancouver BC V6B 4W4

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
FR-72	1	8	13	15	<.3	8	1	146	1.30	<2	<5	<2	<2	1	<.2	<2	2	11	.03	.016	<1	16	.12	16	<.01	<3	.12	.01	.02	8	<2
FR-73	4	58	9	54	<.3	5	8	663	5.56	<2	<5	<2	8	8	.4	<2	<2	154	.41	.072	8	23	1.64	15	.23	<3	1.51	.07	.10	<2	<2
FR-74	2	8	3	6	<.3	7	<1	162	.89	<2	<5	<2	<2	1	<.2	<2	<2	5	.04	.004	<1	16	.05	4	.01	<3	.04	.01	.01	9	<2
RE FR-74	1	9	<3	6	<.3	8	1	123	.81	2	<5	<2	<2	<1	<.2	<2	<2	5	.04	.004	<1	14	.04	3	.01	<3	.03	<.01	.01	8	<2

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: P1 ROCK P2 TO P4 SOIL AU** ANALYSIS BY FA/ICP FROM 30 GM SAMPLE.
<u>Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.</u>

DATE RECEIVED: MAY 21 1996 **DATE REPORT MAILED:** May 29/96 **SIGNED BY**..........D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SECTION III

APPENDIX III

1996 Geochemical soil survey analyses

Ashworth Exploration Ltd. FILE # 96-0685

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
H96 L0+00 7+00N	1	7	10	79	<.3	3	1	245	.34	<2	<5	<2	<2	25	.3	<2	<2	11	.45	.046	<1	3	.07	52	.01	<3	.30	.04	.04	<2	<2
H96 L0+00 6+50N	6	8	16	38	<.3	4	2	71	2.38	4	<5	<2	<2	12	<.2	<2	<2	121	.20	.047	2	16	.08	20	.16	<3	.55	.01	.03	<2	<2
H96 L0+00 6+00N	7	37	67	113	.4	34	17	772	4.37	4	5	<2	<2	13	.5	2	<2	135	.24	.065	7	75	.71	28	.18	<3	2.71	.02	.08	<2	<2
H96 L0+00 5+50N	4	30	13	69	<.3	12	11	1158	2.94	7	<5	<2	<2	17	.3	<2	<2	90	.30	.092	8	19	.45	56	.10	<3	3.21	.03	.09	<2	<2
H96 L0+00 5+00N	4	16	14	30	<.3	14	8	191	1.20	3	7	<2	2	15	<.2	<2	<2	66	.28	.034	6	23	.07	18	.19	<3	.53	.01	.02	<2	<2
H96 L0+00 4+50N	9	38	12	74	.3	11	30	3739	4.18	4	<5	<2	<2	20	<.2	4	2	131	.32	.073	15	23	.40	74	.24	<3	3.36	.02	.07	<2	<2
H96 L0+00 4+00N	3	17	14	47	<.3	4	3	454	3.22	<2	<5	<2	<2	9	<.2	2	3	132	.15	.059	4	12	.10	39	.32	<3	.88	.01	.03	<2	3
H96 L0+00 3+50N	<1	14	13	33	<.3	4	3	225	2.39	2	5	<2	<2	11	<.2	<2	<2	88	.14	.057	3	14	.11	33	.12	<3	.98	.01	.03	<2	<2
H96 L0+00 3+00N	1	21	12	49	<.3	7	7	925	3.78	6	<5	<2	<2	11	<.2	2	<2	121	.18	.124	6	22	.21	35	.20	<3	4.04	.02	.03	<2	2
H96 L0+00 2+50N	1	25	12	57	<.3	9	8	455	3.27	4	<5	<2	<2	16	<.2	2	<2	102	.31	.078	5	20	.38	45	.14	<3	2.73	.02	.05	<2	4
H96 L0+00 2+00N	17	33	8	77	<.3	13	11	252	4.06	5	9	<2	3	14	<.2	<2	<2	113	.27	.059	8	24	.52	41	.24	<3	5.21	.02	.06	<2	<2
H96 L0+00 1+50N	7	34	10	69	<.3	13	14	329	4.26	9	9	<2	2	22	<.2	3	<2	111	.50	.078	11	28	.39	60	.19	<3	6.69	.02	.05	<2	<2
H96 L0+00 1+00N	12	38	14	88	<.3	13	20	2387	5.10	<2	<5	<2	2	13	.6	<2	<2	121	.22	.056	13	23	.38	72	.31	<3	4.01	.02	.05	<2	<2
RE H96 L1E 1+50S	33	24	11	38	<.3	10	13	278	5.17	2	<5	<2	<2	17	<.2	2	<2	169	.23	.040	6	29	.32	44	.25	<3	2.41	.02	.05	<2	<2
H96 L0+00 0+50N	2	34	12	69	<.3	13	16	1053	4.46	6	8	<2	2	19	.3	2	<2	114	.31	.073	9	26	.50	66	.20	<3	4.19	.02	.08	<2	<2
H96 L0+00 0+00	1	31	13	49	<.3	8	5	216	3.54	6	<5	<2	2	11	<.2	2	<2	111	.18	.050	5	21	.29	40	.20	<3	3.34	.02	.05	<2	<2
H96 L0+00 0+50S	1	34	13	22	<.3	4	3	85	.96	<2	<5	<2	<2	9	.2	<2	<2	33	.21	.024	2	9	.12	24	.05	<3	.54	.02	.02	<2	<2
H96 L1E 7+00N	3	18	15	49	<.3	6	3	181	3.42	5	<5	<2	<2	12	<.2	2	<2	107	.17	.042	4	23	.20	26	.22	<3	2.79	.02	.03	<2	<2
H96 L1E 6+50N	5	58	17	154	<.3	28	13	669	2.68	7	9	<2	<2	37	.9	4	<2	86	1.14	.086	13	29	.77	112	.18	<3	3.29	.04	.13	<2	2
H96 L1E 6+00N	11	12	10	47	<.3	10	1	68	2.20	2	<5	<2	<2	11	<.2	<2	2	142	.26	.026	2	12	.04	27	.28	<3	.24	.01	.02	<2	<2
H96 L1E 5+00N	3	16	15	62	<.3	6	2	92	.38	<2	<5	<2	<2	31	.3	<2	2	20	.50	.053	2	1	.07	48	.02	<3	.20	.01	.03	<2	<2
H96 L1E 4+00N	6	13	11	36	<.3	4	4	147	3.37	<2	<5	<2	<2	10	<.2	2	<2	102	.15	.033	3	14	.08	25	.17	<3	1.34	.01	.02	<2	2
H96 L1E 3+50N	3	34	6	52	<.3	14	11	338	3.97	7	<5	<2	3	12	<.2	3	<2	124	.19	.068	8	26	.56	54	.24	<3	4.64	.02	.08	<2	<2
H96 L1E 3+00N	<1	19	13	57	<.3	5	6	421	4.02	2	<5	<2	<2	9	.3	<2	<2	113	.14	.120	5	23	.13	23	.17	<3	4.48	.01	.03	<2	<2
H96 L1E 2+50N	1	12	16	61	<.3	6	5	141	1.48	3	<5	<2	<2	28	.2	2	<2	46	.32	.049	2	8	.19	62	.06	<3	1.24	.02	.05	<2	<2
H96 L1E 2+00N	6	21	6	42	<.3	5	3	112	.87	2	<5	<2	<2	21	<.2	2	<2	42	.39	.028	8	12	.20	57	.10	<3	1.43	.01	.02	<2	<2
H96 L1E 1+50N	1	49	10	71	<.3	19	13	550	3.24	6	<5	<2	<2	27	<.2	2	<2	95	.65	.096	7	25	.84	174	.18	<3	3.37	.04	.23	<2	2
H96 L1E 1+00N	3	30	12	58	<.3	12	12	555	4.39	3	<5	<2	2	12	<.2	2	2	124	.23	.055	8	26	.40	46	.27	<3	3.81	.02	.05	<2	15
H96 L1E 0+50N	5	39	10	82	<.3	15	22	2039	4.24	2	<5	<2	<2	37	.5	2	<2	103	.78	.072	11	20	.61	153	.17	<3	3.29	.03	.18	<2	<2
H96 L1E 0+00	<1	9	4	24	<.3	2	3	139	2.45	<2	<5	<2	<2	22	<.2	<2	<2	76	.18	.029	3	2	.26	31	.17	<3	1.06	.02	.04	<2	2
H96 L1E 0+50S	3	33	6	34	<.3	8	3	129	4.24	3	<5	<2	2	12	.2	2	3	122	.21	.098	3	43	.22	15	.19	<3	4.01	.02	.02	<2	<2
H96 L1E 1+00S	7	23	11	40	<.3	5	4	111	2.75	3	<5	<2	<2	16	.2	<2	<2	91	.29	.033	3	7	.16	46	.11	<3	2.61	.02	.03	<2	2
H96 L1E 1+50S	31	21	5	36	<.3	9	13	240	4.94	3	<5	<2	<2	16	<.2	2	2	158	.21	.038	5	25	.30	41	.24	<3	2.27	.02	.05	<2	4
H96 L1E 2+00S	<1	64	7	56	<.3	13	9	290	3.29	<2	<5	<2	<2	27	.3	2	<2	90	.26	.045	8	17	.41	84	.09	<3	2.54	.02	.03	<2	9
H96 L2E 7+00N	<1	5	4	64	<.3	2	1	22	.07	<2	<5	<2	<2	35	.3	<2	<2	1	.34	.035	2	<1	.05	71	<.01	<3	.10	.01	.03	<2	<2
STANDARD C2/AU-S	25	64	42	131	6.8	85	41	1199	4.16	43	21	9	40	55	21.9	20	19	82	.57	.108	47	68	.95	189	.08	22	1.98	.07	.15	16	51

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb
H96 L2E 6+00N	2	27	7	53	<.3	9	4	218	3.33	3	<5	<2	2	10	<.2	<2	<2	107	.15	.051	4	22	.18	29	.20	<3	3.45	.01	.03	<2	<2
H96 L2E 5+50N	2	20	7	42	<.3	7	5	145	3.59	2	<5	<2	2	9	.2	<2	<2	103	.12	.054	4	21	.19	31	.17	<3	4.58	.01	.03	<2	<2
H96 L2E 4+50N	10	16	6	47	<.3	8	5	250	4.56	5	<5	<2	2	10	<.2	<2	<2	134	.13	.051	5	23	.24	40	.24	<3	4.81	.01	.05	<2	<2
H96 L2E 4+00N	19	21	11	82	<.3	11	16	4030	3.29	3	<5	<2	2	27	1.0	2	2	88	.48	.061	12	17	.32	90	.17	<3	2.80	.02	.05	<2	<2
H96 L2E 3+50N	4	15	10	39	<.3	5	6	227	2.99	3	<5	<2	<2	13	<.2	<2	<2	98	.18	.033	4	15	.13	29	.16	3	1.21	.01	.03	<2	<2
H96 L2E 3+00N	5	27	6	68	<.3	10	8	326	3.77	4	<5	<2	2	13	.2	<2	<2	107	.23	.077	6	22	.38	55	.19	<3	4.58	.02	.06	<2	<2
H96 L2E 2+50N	5	54	12	73	<.3	11	34	2554	3.33	4	<5	<2	<2	18	.6	<2	<2	89	.31	.077	10	20	.30	65	.13	<3	3.19	.02	.04	<2	<2
H96 L2E 2+00N	5	39	14	91	<.3	11	12	1147	3.41	2	<5	<2	2	19	.2	<2	2	99	.43	.074	9	20	.33	72	.19	3	3.57	.02	.05	<2	<2
H96 L2E 1+50N	<1	8	10	156	<.3	1	1	66	.14	2	<5	<2	<2	20	.3	<2	<2	4	.47	.038	<1	<1	.04	19	<.01	<3	.14	.02	.03	<2	18
H96 L2E 1+00N	3	29	<3	103	<.3	19	20	564	4.52	5	<5	<2	3	12	<.2	5	<2	113	.24	.041	4	26	.79	51	.29	<3	4.47	.02	.05	<2	<2
H96 L2E 0+50N	1	3	3	39	<.3	2	2	89	1.02	2	<5	<2	<2	16	.2	<2	<2	33	.18	.020	2	4	.10	54	.02	<3	1.56	.01	.04	<2	<2
H96 L2E 0+00	2	17	7	51	<.3	8	5	173	4.74	8	<5	<2	2	16	<.2	<2	<2	147	.23	.059	6	21	.22	42	.27	<3	3.26	.02	.05	<2	<2
RE H96 L2E 3+00N	4	28	11	74	<.3	11	9	364	4.06	5	<5	<2	2	15	.3	<2	<2	114	.25	.083	6	23	.41	59	.21	3	4.95	.02	.06	<2	<2
H96 L2E 0+50S	<1	17	10	59	<.3	8	5	207	3.78	5	<5	<2	2	11	<.2	2	<2	122	.20	.056	3	23	.25	36	.25	<3	3.12	.02	.04	<2	25
H96 L2E 1+00S	3	12	6	54	<.3	10	12	295	4.22	2	<5	<2	<2	16	.2	<2	<2	123	.21	.043	3	20	.31	34	.19	<3	2.72	.02	.03	<2	<2
H96 L2E 1+50S	3	52	5	54	<.3	12	12	488	4.29	4	7	<2	3	21	.3	3	<2	129	.23	.095	7	23	.43	49	.13	<3	4.54	.02	.03	<2	3
H96 L2E 2+00S	1	46	9	71	<.3	18	15	708	3.40	<2	<5	<2	2	39	.3	2	<2	86	.59	.054	6	24	1.13	58	.11	3	2.24	.05	.08	<2	2
H96 L3E 6+00N	1	7	9	23	<.3	3	3	96	2.10	3	<5	<2	<2	7	<.2	<2	<2	142	.12	.024	2	11	.20	21	.27	<3	.58	.01	.05	<2	<2
H96 L3E 5+50N	2	13	11	32	<.3	5	3	144	2.98	6	<5	<2	2	12	<.2	2	<2	100	.19	.037	3	19	.17	23	.12	<3	2.99	.01	.02	<2	<2
H96 L3E 5+00N	7	16	7	38	<.3	7	4	186	3.94	7	5	<2	3	13	<.2	<2	<2	123	.19	.055	7	27	.20	27	.20	4	4.30	.02	.04	<2	<2
H96 L3E 4+50N	4	23	19	51	<.3	12	5	210	4.13	8	<5	<2	2	15	<.2	3	<2	139	.36	.030	4	25	.36	56	.40	<3	2.01	.02	.07	<2	2
H96 L3E 4+00N	7	20	16	73	<.3	10	9	1359	2.51	6	<5	<2	<2	22	<.2	<2	<2	75	.37	.053	6	14	.39	87	.17	<3	2.17	.02	.07	<2	2
H96 L3E 3+50N	4	25	8	57	<.3	11	10	430	3.13	<2	<5	<2	<2	19	<.2	<2	<2	97	.41	.056	5	21	.47	70	.16	<3	2.96	.02	.09	<2	<2
H96 L3E 2+00N	4	26	11	69	<.3	7	14	407	4.30	5	6	<2	2	18	<.2	<2	<2	116	.24	.066	4	17	.21	47	.28	<3	1.41	.01	.05	<2	<2
H96 L3E 1+00N	2	8	8	23	<.3	3	3	106	2.85	4	<5	<2	<2	13	<.2	<2	<2	134	.17	.027	3	13	.13	18	.23	<3	.88	.02	.02	<2	<2
H96 L3E 0+50N	2	19	7	37	<.3	5	5	181	3.42	5	6	<2	3	13	<.2	5	<2	116	.18	.053	4	19	.32	24	.21	<3	3.02	.02	.04	<2	<2
H96 L3E 0+00	3	14	11	40	<.3	7	5	103	2.49	2	<5	<2	<2	46	<.2	<2	<2	99	.67	.034	5	15	.12	84	.16	<3	1.04	.02	.03	<2	<2
H96 L3E 0+50S	2	17	10	42	<.3	12	9	303	2.87	4	<5	<2	<2	23	.3	3	<2	85	.33	.030	4	17	.61	70	.15	<3	2.35	.02	.08	<2	<2
H96 L3E 1+00S	3	81	9	46	<.3	6	6	154	3.36	<2	<5	<2	2	14	<.2	2	<2	118	.21	.037	6	20	.19	32	.17	<3	2.72	.01	.03	<2	<2
H96 L3E 1+50S	1	43	8	37	<.3	6	5	154	2.55	4	8	<2	<2	19	<.2	<2	<2	107	.17	.025	4	14	.11	53	.15	<3	.73	.02	.04	<2	<2
H96 L4E 7+00N	1	6	6	26	<.3	3	2	87	2.22	2	<5	<2	<2	7	<.2	<2	<2	121	.10	.015	2	15	.10	13	.16	<3	.85	.01	.02	<2	<2
H96 L4E 6+50N	10	21	3	64	<.3	12	20	560	3.04	7	<5	<2	2	13	.4	<2	<2	75	.21	.082	6	18	.35	44	.13	<3	6.69	.02	.06	<2	<2
H96 L4E 6+00N	1	7	34	115	.4	8	2	38	.15	5	12	<2	<2	32	.9	2	<2	5	.82	.061	2	3	.05	104	<.01	3	.29	.02	.05	<2	5
H96 L4E 5+50N	2	23	6	73	<.3	12	9	214	2.43	3	<5	<2	<2	23	.4	2	<2	63	.41	.036	9	18	.32	33	.08	<3	1.82	.03	.04	<2	<2
H96 L4E 5+00N	5	18	9	67	<.3	7	86	2089	3.36	3	<5	<2	<2	39	<.2	2	<2	97	.61	.032	8	17	.22	79	.22	<3	1.64	.02	.03	<2	<2
STANDARD C2/AU-S	23	58	43	125	6.4	79	38	1131	3.95	42	16	8	40	51	22.1	21	18	74	.54	.102	44	66	.88	183	.08	22	1.83	.06	.14	15	46

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
H96 L4E 4+00N	8	48	8	80	<.3	12	17	889	3.92	2	<5	<2	<2	15	.5	<2	<2	106	.30	.065	9	28	.39	52	.23	<3	3.53	.02	.06	<2	<2
H96 L4E 3+00N	4	8	7	30	<.3	5	1	128	3.33	3	<5	<2	<2	10	<.2	2	<2	150	.12	.022	3	19	.12	20	.33	<3	1.04	.01	.03	<2	2
H96 L4E 2+00N	4	13	10	35	<.3	5	3	161	3.16	<2	<5	<2	2	12	<.2	<2	<2	127	.17	.034	3	21	.18	33	.26	<3	1.73	.02	.04	<2	<2
H96 L4E 1+50N	3	30	5	68	<.3	10	7	234	3.96	<2	<5	<2	3	12	<.2	<2	<2	124	.17	.085	3	31	.41	35	.25	<3	4.86	.02	.05	<2	2
RE H96 L5E 2+50N	2	24	8	20	<.3	3	4	183	1.21	<2	7	<2	<2	8	<.2	<2	<2	49	.11	.023	7	8	.06	41	.11	<3	.68	.01	.02	<2	<2
H96 L4E 1+00N	2	18	9	39	<.3	5	3	194	2.50	<2	<5	<2	2	12	<.2	2	<2	85	.18	.050	4	20	.23	26	.16	<3	2.10	.02	.03	<2	<2
H96 L4E 0+00	5	18	10	58	<.3	10	14	238	4.55	2	<5	<2	2	23	.3	3	<2	132	.33	.035	9	25	.25	42	.29	<3	3.24	.02	.05	<2	4
H96 L4E 0+50S	2	41	8	59	<.3	12	10	394	2.76	2	<5	<2	2	22	.2	<2	<2	87	.36	.056	7	23	.63	59	.16	<3	2.60	.03	.10	<2	4
H96 L4E 1+00S	4	11	7	31	<.3	3	1	112	3.38	3	6	<2	<2	12	<.2	2	<2	174	.14	.022	3	14	.09	23	.41	<3	1.25	.01	.02	<2	<2
H96 L4E 1+50S	2	24	5	50	<.3	12	10	298	2.82	<2	<5	<2	2	20	.3	<2	<2	86	.26	.049	5	25	.56	34	.12	<3	2.96	.02	.06	<2	2
H96 L5E 5+00N	3	9	7	56	<.3	4	3	89	1.52	<2	<5	<2	<2	34	<.2	<2	<2	53	.43	.027	2	10	.19	52	.08	<3	.68	.03	.03	<2	<2
H96 L5E 4+50N	9	24	7	48	<.3	9	7	238	3.53	4	7	<2	2	11	<.2	2	<2	108	.20	.052	7	26	.30	34	.25	3	3.99	.02	.05	<2	<2
H96 L5E 4+00N	8	15	14	92	.3	8	15	1022	3.22	5	<5	<2	<2	29	.4	3	<2	82	.57	.053	11	20	.31	79	.15	<3	2.49	.02	.06	<2	24
H96 L5E 3+00N	2	17	4	54	<.3	6	5	349	3.28	<2	<5	<2	3	9	<.2	<2	<2	93	.15	.063	7	30	.17	20	.24	<3	5.18	.02	.02	<2	<2
H96 L5E 2+50N	1	23	9	20	<.3	2	4	177	1.23	<2	<5	<2	<2	8	<.2	<2	<2	49	.11	.022	7	7	.05	40	.11	<3	.70	.01	.02	<2	<2
H96 L5E 2+00N	2	8	11	24	<.3	2	<1	123	2.15	2	8	<2	2	7	<.2	<2	<2	109	.15	.039	3	14	.08	24	.39	<3	.57	.01	.03	<2	4
H96 L5E 1+50N	<1	11	13	56	.3	4	2	171	2.50	3	<5	<2	<2	11	.3	<2	<2	100	.13	.045	3	16	.11	25	.14	<3	1.56	.01	.03	<2	<2
H96 L5E 1+00N	<1	6	10	42	<.3	2	2	86	1.61	3	<5	<2	<2	14	.5	<2	<2	43	.22	.025	3	7	.10	30	.06	<3	.40	.02	.02	<2	<2
H96 L5E 0+50S	2	38	9	71	<.3	16	12	478	3.45	<2	<5	<2	2	24	<.2	<2	<2	105	.43	.057	7	30	.81	115	.26	3	3.73	.04	.18	<2	<2
H96 L5E 1+00S	4	32	5	64	<.3	14	10	330	3.59	2	<5	<2	2	19	<.2	<2	<2	114	.33	.062	9	30	.65	96	.28	<3	4.07	.03	.14	<2	<2
H96 L5E 1+50S	<1	48	8	76	<.3	16	12	511	3.36	<2	<5	<2	3	18	<.2	<2	<2	97	.32	.057	8	33	.69	96	.23	3	4.36	.03	.11	<2	4
H96 L6E 7+00N	5	16	4	43	<.3	8	7	177	1.69	5	<5	<2	2	21	<.2	2	<2	55	.37	.078	9	17	.34	37	.14	3	2.87	.02	.03	<2	2
H96 L6E 6+50N	2	40	8	83	<.3	17	10	391	4.07	<2	<5	<2	3	17	<.2	<2	<2	124	.31	.057	7	38	.70	59	.45	<3	5.07	.03	.10	<2	<2
H96 L6E 6+00N	5	12	65	45	<.3	4	2	216	4.27	5	<5	<2	<2	9	<.2	<2	<2	172	.20	.072	4	20	.13	19	.34	<3	1.25	.01	.03	<2	<2
H96 L6E 5+50N	10	27	18	74	<.3	10	16	329	4.09	5	<5	<2	2	18	.2	2	<2	126	.35	.038	7	25	.31	40	.28	<3	3.49	.02	.05	<2	<2
H96 L6E 5+00N	5	20	8	46	<.3	10	6	318	3.21	4	<5	<2	3	12	.3	<2	<2	98	.20	.058	8	28	.35	32	.19	3	4.42	.02	.04	<2	<2
H96 L6E 4+50N	10	16	9	42	<.3	3	2	140	4.97	2	<5	<2	2	9	.4	<2	<2	141	.16	.046	6	18	.20	21	.30	<3	3.85	.02	.03	<2	3
H96 L6E 4+00N	3	20	7	57	<.3	11	8	385	3.06	5	<5	<2	2	11	.6	3	<2	77	.21	.071	8	27	.39	40	.17	<3	4.62	.02	.06	<2	<2
H96 L6E 3+50N	4	19	6	46	<.3	5	5	230	4.35	4	<5	<2	2	11	.5	<2	<2	134	.18	.045	5	24	.19	21	.16	<3	3.19	.02	.03	<2	3
H96 L6E 3+00N	3	20	7	47	<.3	7	4	259	4.28	2	<5	<2	3	13	<.2	2	<2	149	.18	.040	4	30	.26	32	.36	<3	3.05	.02	.03	<2	<2
H96 L6E 2+50N	<1	16	7	31	<.3	5	4	131	3.54	4	<5	<2	2	10	.2	<2	<2	115	.14	.065	3	23	.21	19	.21	<3	2.53	.01	.03	<2	<2
H96 L6E 1+50N	2	15	6	49	<.3	4	2	96	3.67	<2	5	<2	2	11	<.2	2	<2	126	.19	.030	4	24	.09	20	.25	3	2.70	.01	.02	<2	<2
H96 L6E 1+00N	<1	4	<3	39	<.3	2	3	90	1.62	3	<5	<2	<2	18	.5	<2	<2	58	.17	.016	2	10	.20	54	.02	<3	2.15	.01	.04	<2	<2
H96 L6E 0+50N	1	10	6	32	<.3	2	3	167	2.48	3	<5	<2	<2	10	.4	<2	<2	56	.14	.038	4	11	.08	43	.08	<3	2.12	.01	.03	<2	<2
H96 L6E 0+00	6	45	8	77	.3	14	17	515	3.11	3	<5	<2	3	14	.2	<2	<2	96	.28	.104	6	30	.47	73	.23	3	5.67	.02	.11	<2	<2
STANDARD C2/AU-S	25	57	44	132	6.5	78	38	1077	3.86	42	22	7	38	51	22.9	22	17	74	.54	.101	44	70	.86	180	.08	22	1.83	.06	.14	15	50

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
H96 L6E 0+50S	1	31	8	66	<.3	16	16	535	3.47	4	<5	<2	3	19	.3	2	<2	98	.36	.060	7	29	.68	108	.28	3	3.87	.03	.15	<2	2
H96 L6E 1+00S	<1	9	32	72	.3	4	2	186	.28	4	<5	<2	<2	14	.2	<2	<2	11	.60	.078	2	3	.10	36	.02	<3	.34	.01	.06	<2	<2
H96 L7E 7+00N	4	36	22	84	.3	19	13	1020	3.00	5	<5	<2	2	37	.5	<2	<2	86	.89	.067	8	29	.79	184	.19	<3	3.02	.03	.26	<2	<2
H96 L7E 6+50N	5	43	21	103	<.3	28	29	651	3.03	7	<5	<2	3	19	.5	<2	<2	71	.41	.056	17	28	.82	83	.19	<3	4.81	.03	.17	<2	<2
H96 L7E 6+00N	<1	9	7	50	.3	2	1	38	.43	2	5	<2	<2	27	.3	<2	<2	17	.33	.029	1	4	.07	39	.01	3	.18	.01	.03	<2	<2
H96 L7E 5+50N	<1	11	8	24	<.3	4	1	110	2.67	5	<5	<2	<2	9	<.2	<2	<2	161	.11	.026	3	19	.12	26	.42	<3	1.15	.01	.03	<2	<2
H96 L7E 5+00N	1	16	11	28	<.3	4	2	126	4.36	8	<5	<2	2	8	.4	<2	<2	134	.11	.043	5	28	.10	17	.23	<3	3.59	.01	.02	<2	<2
H96 L7E 4+00N	<1	8	8	23	<.3	2	2	65	1.47	2	<5	<2	2	10	<.2	<2	<2	86	.19	.017	2	10	.11	28	.25	<3	.35	.01	.06	<2	<2
H96 L7E 3+50N	16	41	7	72	.3	10	42	3341	4.06	3	<5	<2	3	14	.5	<2	<2	105	.24	.067	9	24	.31	42	.20	<3	3.84	.02	.04	<2	7
H96 L7E 3+00N	1	24	5	40	<.3	9	6	236	3.99	4	<5	<2	4	10	.5	<2	<2	142	.15	.038	4	31	.30	24	.25	3	3.48	.01	.03	<2	2
RE H96 L8E 2+00N	13	33	9	72	<.3	15	31	594	2.75	2	<5	<2	3	14	.3	<2	<2	75	.23	.049	15	28	.45	45	.17	<3	4.72	.02	.06	<2	2
H96 L7E 2+50N	5	52	15	66	<.3	12	11	542	3.74	3	<5	<2	3	27	.3	<2	<2	111	.43	.076	7	31	.72	49	.19	<3	3.64	.03	.10	<2	4
H96 L7E 2+00N	<1	6	<3	56	<.3	2	1	33	.08	2	8	<2	<2	45	.2	<2	<2	2	.23	.027	<1	5	.07	94	<.01	<3	.23	.01	.02	<2	<2
H96 L7E 1+50N	1	16	9	35	<.3	11	4	197	4.08	2	<5	<2	2	11	<.2	<2	<2	122	.16	.079	4	35	.30	22	.28	<3	2.04	.01	.02	<2	2
H96 L7E 0+50S	2	38	9	54	<.3	13	10	440	3.27	3	<5	<2	2	19	.2	<2	<2	99	.30	.055	6	29	.67	62	.20	<3	3.31	.03	.10	<2	2
H96 L7E 1+00S	<1	7	27	75	.4	3	1	63	.17	3	8	<2	<2	32	.4	2	<2	7	.63	.058	3	4	.13	48	.01	5	.23	.01	.05	<2	<2
H96 L7E 1+25S	1	11	10	29	<.3	5	2	91	2.48	4	<5	<2	<2	14	<.2	<2	<2	107	.20	.022	2	17	.17	35	.24	<3	1.20	.01	.04	<2	<2
H96 L8E 7+00N	15	40	25	211	.5	32	21	6918	4.91	8	6	<2	3	21	2.3	<2	<2	129	.74	.079	10	41	.46	97	.20	<3	3.14	.02	.05	<2	<2
H96 L8E 6+00N	4	28	15	79	<.3	19	9	405	3.82	7	5	<2	3	17	.4	<2	<2	128	.31	.053	9	35	.47	74	.27	3	4.09	.02	.08	<2	<2
H96 L8E 5+50N	<1	7	6	51	.4	2	<1	19	.10	<2	5	<2	<2	26	.2	<2	<2	4	.37	.031	1	3	.07	31	<.01	<3	.17	.01	.02	<2	<2
H96 L8E 5+00N	5	30	16	59	<.3	11	7	278	4.23	5	<5	<2	4	9	.2	<2	<2	132	.13	.053	9	32	.32	28	.25	<3	5.31	.02	.03	<2	3
H96 L8E 4+50N	9	27	13	90	.3	7	30	5081	2.25	4	<5	<2	2	17	.7	<2	2	42	.21	.151	10	15	.15	61	.04	<3	3.27	.02	.05	<2	9
H96 L8E 3+50N	4	11	29	86	.3	6	1	188	.47	5	6	<2	<2	11	.4	3	<2	15	.18	.048	1	5	.10	10	.01	5	.20	.02	.06	<2	4
H96 L8E 3+00N	<1	3	10	16	<.3	1	2	106	1.37	3	<5	<2	<2	9	<.2	<2	<2	55	.14	.016	3	7	.10	10	.07	<3	.40	.02	.02	<2	3
H96 L8E 2+50N	3	21	11	44	<.3	7	6	310	2.75	2	<5	<2	<2	12	.2	<2	<2	88	.19	.045	4	19	.37	81	.18	<3	2.27	.02	.12	<2	<2
H96 L8E 2+00N	11	34	6	68	<.3	15	30	584	2.62	3	<5	<2	4	13	.2	<2	<2	72	.21	.047	15	24	.42	45	.17	3	4.46	.02	.05	<2	3
H96 L8E 1+50N	8	26	15	58	<.3	10	5	276	5.68	7	<5	<2	3	11	<.2	<2	<2	190	.21	.035	5	38	.23	36	.55	<3	5.01	.02	.04	<2	<2
H96 L8E 1+00N	<1	9	18	123	<.3	4	1	26	.12	8	6	<2	<2	53	.3	<2	<2	5	.63	.044	1	2	.07	118	<.01	<3	.25	.01	.03	<2	<2
H96 L8E 0+50N	2	15	11	32	<.3	6	2	174	3.55	8	<5	<2	2	13	<.2	3	<2	162	.22	.032	4	27	.28	32	.49	<3	1.62	.02	.06	<2	<2
H96 L8E 0+00	5	37	8	49	<.3	10	5	210	3.84	4	<5	<2	4	12	.2	<2	<2	111	.20	.077	5	34	.42	26	.27	<3	5.87	.02	.05	<2	<2
H96 L8E 0+50S	<1	5	6	77	<.3	1	<1	29	.07	<2	5	<2	<2	12	.2	<2	<2	3	.17	.022	<1	2	.05	16	<.01	<3	.16	.01	.04	<2	<2
H96 L8E 1+00S	3	13	22	34	<.3	7	2	140	3.44	4	<5	<2	<2	23	<.2	<2	<2	220	.44	.036	3	30	.14	21	.67	<3	.80	.01	.02	<2	<2
H96 L9E 6+50N	5	80	35	110	.4	21	23	577	7.15	9	<5	<2	8	4	.5	6	<2	216	.16	.086	6	30	1.04	24	.50	<3	2.91	.01	.07	<2	<2
H96 L9E 6+00N	2	29	18	51	<.3	11	8	652	3.78	6	<5	<2	2	14	.4	<2	<2	123	.20	.064	5	28	.31	37	.22	<3	3.37	.02	.03	<2	2
H96 L9E 5+50N	20	21	15	41	<.3	20	6	103	2.62	9	<5	<2	<2	12	<.2	<2	<2	206	.16	.027	2	22	.16	30	.29	<3	.51	.01	.02	<2	<2
STANDARD C2/AU-S	24	59	41	130	6.8	80	39	1163	4.06	43	19	8	39	53	21.2	22	18	78	.56	.106	46	71	.92	184	.08	23	1.92	.07	.15	15	45

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
H96 L9E 5+00N	5	15	21	35	.5	6	3	151	4.53	7	<5	<2	3	10	<.2	2	2	151	.19	.030	6	28	.20	23	.36	3	3.12	.01	.02	3	2
H96 L9E 4+50N	13	12	14	26	.4	2	7	199	5.06	6	5	<2	2	32	<.2	2	2	157	.11	.048	3	10	.13	25	.25	4	1.79	.01	.02	<2	<2
RE H96 L9E 1+50N	2	8	14	22	.3	2	<1	192	2.06	5	<5	<2	<2	12	<.2	3	<2	133	.14	.017	3	7	.17	28	.47	<3	.73	.02	.03	<2	<2
H96 L9E 4+00N	22	11	13	32	.3	3	5	203	4.74	5	<5	<2	<2	12	.4	<2	<2	220	.27	.022	3	10	.29	20	.15	<3	1.88	.02	.02	<2	27
H96 L9E 3+50N	41	20	16	53	.6	2	15	398	6.68	8	<5	<2	2	18	1.4	3	<2	196	.24	.031	3	7	.31	26	.10	3	3.22	.02	.03	<2	<2
H96 L9E 3+00N	4	6	7	21	<.3	1	3	190	1.87	3	<5	<2	3	9	<.2	<2	<2	85	.21	.013	4	4	.16	18	.09	<3	1.12	.02	.02	<2	<2
H96 L9E 2+00N	32	13	18	75	<.3	7	11	268	3.54	6	<5	<2	<2	12	.2	<2	<2	90	.21	.045	5	18	.34	38	.15	<3	3.27	.02	.04	2	<2
H96 L9E 1+50N	2	8	13	21	.3	2	<1	185	1.97	4	5	<2	<2	11	<.2	2	2	129	.14	.017	2	9	.17	29	.47	<3	.68	.02	.04	<2	5
H96 L9E 1+00N	6	32	20	59	.3	8	7	346	4.40	7	<5	<2	2	12	.2	<2	<2	148	.17	.032	6	27	.31	37	.26	<3	3.74	.01	.03	2	<2
H96 L9E 0+50N	6	17	11	29	.4	4	3	146	5.68	5	<5	<2	<2	16	<.2	2	<2	305	.19	.027	4	15	.13	27	.51	<3	.98	.01	.03	<2	<2
H96 L9E 0+00	2	37	15	68	<.3	16	12	371	3.76	5	<5	<2	3	20	<.2	<2	<2	113	.40	.018	6	29	.85	158	.40	<3	4.48	.03	.13	2	12
H96 L9E 0+50S	2	29	13	45	<.3	9	7	270	3.16	5	<5	<2	2	19	<.2	<2	<2	96	.33	.021	6	24	.56	78	.26	<3	3.24	.03	.07	<2	4
STANDARD C2/AU-S	25	56	45	124	6.8	75	37	1048	3.93	44	19	8	38	51	22.9	19	18	74	.55	.102	44	68	.89	187	.08	25	1.86	.06	.14	13	42

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
L8+00E 10+00N	1	113	8	138	.3	210	34	344	4.68	7	<5	<2	2	9	<.2	<2	<2	128	.30	.044	2	308	2.18	34	.30	<3	3.90	.03	.04	<2	<2
L8+00E 9+50N	2	36	15	100	.4	44	45	1921	4.97	5	<5	<2	<2	19	.7	<2	3	96	.38	.134	13	35	.17	31	.10	<3	2.60	.01	.01	<2	3
L8+00E 9+00N	2	7	12	16	<.3	9	<1	52	2.48	<2	<5	<2	<2	6	.5	<2	2	153	.10	.024	2	19	.08	4	.28	<3	.40	<.01	.01	<2	18
L8+00E 8+50N	3	33	30	61	.4	23	6	493	5.73	4	<5	<2	5	11	.5	<2	4	146	.24	.121	3	45	.37	12	.21	<3	4.26	.01	.02	<2	<2
L8+00E 8+00N	2	80	50	135	<.3	20	17	672	6.59	<2	<5	<2	9	6	.7	<2	<2	218	.18	.060	7	30	1.44	56	.41	<3	4.03	.01	.17	<2	<2
L8+00E 7+50N	1	19	25	58	<.3	7	<1	229	5.29	3	<5	<2	4	2	.5	<2	4	215	.07	.080	2	17	.26	9	.51	<3	1.46	.01	.03	<2	<2
L8+00E 7+00N	<1	20	30	64	<.3	6	1	129	6.03	5	<5	<2	4	2	.2	2	3	235	.05	.073	2	18	.53	14	.52	<3	1.82	.01	.06	<2	<2
L9+00E 10+00N	4	76	15	67	.5	46	16	280	5.98	<2	<5	<2	4	25	.5	<2	<2	76	.22	.110	13	31	.18	11	.12	<3	3.27	.01	.01	<2	<2
L9+00E 9+50N	1	11	9	16	<.3	4	<1	64	1.19	<2	<5	<2	2	7	<.2	<2	<2	37	.13	.072	4	13	.11	10	.12	<3	1.07	.01	.01	<2	<2
L9+00E 9+00N	5	51	15	98	.4	29	7	241	5.94	3	<5	<2	5	11	.5	<2	2	138	.27	.086	4	59	.23	21	.21	<3	3.58	.01	.01	2	<2
L9+00E 8+50N	3	54	[illegible]	51	.5	23	3	74	5.33	8	<5	<2	2	70	.7	2	2	84	.15	.078	3	17	.05	17	.07	<3	.69	.01	.01	<2	<2
L9+00E 8+00N	2	10	20	39	<.3	15	2	87	2.78	6	<5	<2	<2	8	.4	<2	3	109	.14	.033	4	28	.21	13	.11	<3	.69	.01	.02	<2	<2
RE L9+00E 7+50N	1	60	20	116	<.3	15	13	321	5.68	<2	<5	<2	8	6	.2	<2	2	180	.12	.059	7	29	.84	35	.39	<3	3.53	.01	.08	<2	<2
L9+00E 7+50N	1	59	19	116	<.3	15	13	318	5.71	<2	<5	<2	7	6	.2	<2	<2	181	.12	.059	7	29	.85	35	.39	<3	3.51	.01	.09	<2	20
L9+00E 7+00N	2	86	43	160	.3	20	19	606	6.48	<2	<5	<2	8	3	.5	<2	2	169	.11	.054	17	36	1.61	47	.38	<3	3.75	.01	.20	<2	<2
L10+00E 10+00N	3	37	7	95	.5	19	10	799	4.47	<2	<5	<2	3	8	.3	<2	<2	128	.13	.113	7	45	.34	18	.25	<3	4.54	.01	.02	<2	<2
L10+00E 9+50N	3	35	11	67	<.3	19	5	335	4.18	<2	<5	<2	4	8	<.2	<2	3	112	.13	.103	6	43	.33	15	.24	3	4.37	.01	.01	<2	2
L10+00E 9+00N	22	39	13	87	<.3	21	4	108	3.79	5	<5	<2	4	5	.6	<2	3	92	.07	.082	3	14	.10	12	.11	<3	2.05	.01	<.01	<2	<2
L10+00E 8+50N	4	5	8	22	<.3	7	<1	20	1.68	<2	<5	<2	<2	5	<.2	<2	<2	89	.12	.019	2	12	.05	5	.13	<3	.49	.01	.01	<2	<2
L10+00E 8+00N	4	17	10	60	.3	10	1	182	2.24	3	<5	<2	<2	10	.4	<2	<2	71	.14	.047	2	17	.08	13	.12	<3	.92	.01	.02	<2	3
L10+00E 7+50N	2	53	10	289	.3	61	14	160	4.70	4	<5	<2	2	19	.5	2	<2	119	.25	.043	3	96	.83	16	.18	<3	2.36	.01	.02	<2	<2
L10+00E 7+00N	2	14	12	40	.4	8	<1	74	2.68	4	<5	<2	2	10	.5	<2	2	134	.17	.055	3	19	.27	19	.25	<3	.78	.01	.05	<2	<2
L10+00E 6+50N	3	80	33	132	.4	20	18	770	6.57	3	<5	<2	6	7	<.2	2	2	194	.18	.078	7	36	1.20	23	.24	<3	2.74	.01	.14	<2	5
L10+00E 6+00N	5	25	16	60	.3	21	3	239	4.78	10	<5	<2	3	5	.3	3	<2	186	.12	.084	4	71	.46	17	.24	<3	2.62	.01	.03	<2	<2
L10+00E 5+50N	2	49	12	273	.3	63	20	225	4.92	2	<5	<2	2	14	.9	<2	2	114	.29	.053	4	68	.62	15	.22	<3	2.53	.01	.01	<2	<2
L10+00E 5+00N	1	5	9	33	<.3	3	2	69	1.05	<2	<5	<2	<2	10	<.2	2	<2	34	.18	.018	2	3	.07	12	.04	<3	.42	.02	.03	<2	5
L10+00E 4+50N	2	5	7	31	<.3	1	1	56	.98	<2	<5	<2	<2	7	<.2	<2	<2	29	.11	.013	2	4	.05	18	.02	<3	.56	.01	.02	<2	3
L11+00E 8+00N	5	35	10	92	<.3	28	13	1794	6.24	<2	<5	<2	2	13	.6	<2	2	171	.15	.188	5	77	.55	24	.18	<3	5.15	.01	.02	<2	3
L11+00E 7+50N	6	6	18	40	<.3	6	<1	76	1.04	2	<5	<2	<2	5	.2	<2	<2	40	.09	.044	2	8	.10	13	.11	<3	.37	.01	.02	<2	2
L11+00E 7+00N	17	14	25	51	<.3	15	<1	95	5.15	2	<5	<2	<2	5	.6	<2	2	242	.07	.062	3	17	.06	11	.49	<3	.74	<.01	<.01	<2	2
L11+00E 6+50N	5	36	5	78	<.3	26	4	127	3.53	3	<5	<2	3	13	.4	2	<2	99	.20	.048	4	35	.33	22	.16	<3	2.78	.01	.02	<2	<2
L11+00E 6+00N	12	61	13	175	.3	47	7	195	4.46	<2	<5	<2	3	10	.4	3	<2	105	.17	.057	6	35	.35	15	.23	<3	4.30	.01	.01	<2	4
L11+00E 6+00N A	3	31	12	65	<.3	18	3	184	4.99	<2	<5	<2	3	10	<.2	<2	4	139	.15	.081	4	65	.53	18	.25	<3	4.39	.01	.02	<2	<2
L11+00E 5+50N	7	19	11	37	<.3	16	3	64	2.42	4	<5	<2	<2	10	.4	<2	<2	155	.28	.032	2	36	.20	17	.16	<3	.77	.01	.02	<2	<2
L11+00E 5+00N	7	39	8	55	.3	7	2	182	7.47	<2	<5	<2	<2	8	.2	<2	3	328	.13	.044	3	35	.22	16	.22	<3	4.49	.01	.01	<2	<2
L11+00E 4+50N	1	18	14	59	.6	3	5	145	2.07	3	<5	<2	<2	19	.3	2	<2	51	.28	.049	3	6	.32	28	.07	<3	.93	.02	.05	<2	548
L11+00E 4+00N	23	6	12	26	<.3	3	<1	112	2.59	3	<5	<2	<2	12	.3	<2	3	128	.18	.030	2	4	.10	12	.18	<3	.87	.01	.02	<2	7
STANDARD C2/AU-S	20	61	41	143	6.6	73	34	1096	3.98	42	21	7	36	52	20.9	19	22	71	.56	.110	42	65	.91	203	.07	26	2.10	.06	.14	16	51

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au** ppb
L11+00E 3+50N	6	35	3	50	<.3	8	1	211	5.47	3	<5	<2	3	11	.3	8	<2	150	.19	.388	4	33	.45	15	.27	<3	4.97	.02	.02	2	3
L11+00E 3+00N	1	8	9	29	<.3	2	2	90	1.23	2	<5	<2	<2	5	<.2	2	<2	35	.14	.020	2	4	.21	15	.09	<3	.58	.02	.04	<2	<2
L11+00E 2+50N	2	4	19	46	<.3	3	2	845	2.94	<2	<5	<2	<2	14	.5	2	2	88	.25	.036	3	7	.36	55	.22	<3	1.07	.02	.07	<2	3
L11+00E 2+00N	13	28	3	77	<.3	10	4	324	5.23	<2	<5	<2	3	10	.6	6	5	131	.18	.066	6	28	.36	35	.26	<3	6.01	.01	.03	<2	<2
L11+00E 1+50N	6	38	10	62	.5	9	5	526	4.87	3	<5	<2	<2	16	.5	3	<2	140	.19	.058	5	25	.34	31	.15	<3	2.73	.01	.03	<2	5
L11+00E 1+00N	<1	3	<3	16	<.3	1	2	128	1.65	2	<5	<2	<2	25	<.2	<2	<2	49	.26	.009	2	2	.13	9	.09	<3	.50	.03	.02	<2	<2
L11+00E 0+50N	1	14	31	37	<.3	4	2	114	1.34	2	<5	<2	<2	18	.2	<2	<2	43	.46	.038	1	3	.21	13	.05	<3	.65	.04	.04	<2	<2
L11+00E 0+00N	13	8	4	30	<.3	4	1	99	3.56	5	<5	<2	<2	16	.6	2	2	182	.22	.027	3	12	.15	11	.24	<3	.91	.01	.01	<2	<2
L11+00E 0+50S	3	30	10	58	.3	7	5	362	3.87	<2	<5	<2	<2	15	.3	2	3	115	.28	.068	3	19	.30	36	.14	<3	3.20	.01	.03	<2	<2
L11+00E 1+00S	3	42	<3	67	.3	6	5	285	4.42	<2	<5	<2	2	19	.4	5	<2	118	.23	.062	5	28	.46	40	.18	<3	5.49	.02	.03	<2	7
L11+00E 1+50S	2	89	10	68	<.3	20	34	1341	5.13	<2	<5	<2	<2	51	.5	4	<2	140	.32	.055	3	18	1.79	57	.08	<3	3.14	.02	.05	<2	3
L12+00E 6+00N	3	25	9	42	<.3	6	2	153	4.11	<2	<5	<2	3	13	<.2	2	<2	115	.18	.062	4	26	.28	18	.19	<3	4.31	.02	.02	<2	<2
L12+00E 5+50N	2	11	10	36	.3	4	<1	86	3.74	6	<5	<2	2	9	.4	<2	2	157	.14	.035	3	29	.10	10	.24	<3	2.25	.01	.01	<2	<2
L12+00E 5+00N	14	15	8	73	.3	7	5	278	6.83	<2	<5	<2	2	15	.2	5	2	204	.14	.046	4	21	.49	31	.13	<3	4.49	.01	.03	<2	<2
L12+00E 4+50N	12	21	9	60	.4	8	8	559	4.16	<2	<5	<2	<2	13	.2	4	<2	102	.20	.063	4	22	.31	24	.12	<3	3.64	.01	.02	<2	14
L12+00E 4+00N	14	20	7	48	.3	5	2	185	4.32	2	<5	<2	<2	22	.5	2	<2	150	.23	.038	4	16	.40	20	.20	<3	2.31	.01	.02	<2	2
RE L12+00E 3+50N	1	2	9	12	<.3	<1	<1	102	.60	<2	<5	<2	<2	11	<.2	<2	<2	49	.20	.008	3	3	.09	7	.24	<3	.53	.02	.02	<2	<2
L12+00E 3+50N	1	2	9	11	<.3	1	<1	98	.58	<2	<5	<2	<2	11	<.2	<2	<2	47	.20	.007	3	3	.09	7	.23	<3	.52	.01	.02	<2	<2
L12+00E 3+00N	7	36	<3	37	<.3	6	<1	163	7.06	<2	<5	<2	4	11	.3	4	2	157	.14	.050	3	32	.40	15	.28	<3	5.01	.01	.02	<2	2
L12+00E 2+50N	2	4	7	18	<.3	2	<1	86	2.57	2	<5	<2	<2	12	.3	<2	2	97	.17	.022	4	10	.07	14	.20	<3	1.08	.01	.02	<2	2
L12+00E 2+00N	2	6	11	25	<.3	2	<1	100	2.67	3	<5	<2	<2	11	.3	2	2	85	.17	.027	6	9	.11	18	.17	<3	.92	.01	.02	<2	<2
L12+00E 1+50N	5	20	10	34	<.3	3	2	108	3.83	<2	<5	<2	2	10	.4	3	3	128	.15	.027	4	22	.12	27	.14	<3	3.13	.01	.01	<2	5
L12+00E 1+00N	4	45	4	49	<.3	11	2	246	5.57	<2	<5	<2	2	13	.6	2	3	170	.20	.056	5	37	.56	21	.38	<3	3.85	.02	.03	<2	4
L12+00E 0+50N	4	5	3	18	<.3	2	1	73	2.00	<2	<5	<2	<2	10	.2	2	<2	116	.13	.013	2	9	.07	8	.15	<3	.49	.01	.02	<2	2
L12+00E 0+00N	17	47	10	272	<.3	16	280	6418	12.62	<2	<5	<2	<2	16	.7	<2	<2	149	.30	.096	8	30	.16	69	.15	<3	9.09	.01	.02	<2	5
L12+00E 0+50S	1	15	13	33	<.3	5	5	166	1.26	<2	<5	<2	<2	21	.4	<2	<2	64	.33	.023	2	13	.26	26	.07	<3	.62	.02	.03	<2	4
L12+00E 1+00S	7	55	<3	60	.3	6	4	240	5.26	2	<5	<2	2	32	.3	5	4	160	.16	.027	4	25	.55	31	.30	<3	4.27	.01	.02	3	2
L12+00E 1+50S	2	57	5	71	<.3	19	15	723	3.85	2	<5	<2	<2	20	.6	3	<2	95	.36	.071	6	34	1.12	35	.09	<3	3.23	.02	.03	<2	9
L12+00E 2+00S	3	46	4	39	<.3	5	9	175	6.71	<2	<5	<2	<2	14	<.2	<2	<2	215	.10	.040	3	20	.28	60	.02	<3	3.64	.01	.02	<2	4
L13+00E 3+00N	3	24	3	35	<.3	5	2	220	4.14	<2	<5	<2	2	12	.3	<2	<2	110	.19	.066	3	23	.30	15	.19	<3	3.53	.02	.02	<2	3
L13+00E 2+50N	3	21	<3	36	<.3	5	1	155	5.04	5	<5	<2	3	11	.4	<2	<2	131	.17	.091	3	29	.32	15	.23	<3	4.77	.01	.02	<2	<2
L13+00E 2+00N	1	2	4	13	<.3	1	1	76	1.02	<2	<5	<2	<2	12	<.2	<2	<2	26	.16	.008	2	3	.03	8	.05	<3	.31	.02	.02	<2	<2
L13+00E 1+50N	2	11	7	26	<.3	2	2	64	1.98	4	<5	<2	<2	8	<.2	<2	<2	107	.11	.025	3	10	.12	22	.07	<3	1.20	.01	.03	<2	3
L13+00E 1+00N	2	21	6	34	<.3	3	<1	139	3.99	<2	<5	<2	2	10	.4	<2	<2	127	.16	.042	3	18	.19	24	.26	<3	2.59	.01	.02	<2	3
L13+00E 0+50N	3	24	<3	46	<.3	5	2	164	5.26	<2	<5	<2	<2	13	.2	<2	<2	171	.22	.048	3	20	.31	21	.20	<3	3.06	.01	.02	<2	4
L23+00E 0+00N	2	25	<3	34	<.3	3	1	146	3.98	<2	<5	<2	2	12	.4	3	3	141	.19	.042	3	17	.28	16	.20	<3	2.83	.01	.02	<2	<2
STANDARD C2/AU-S	20	59	36	146	6.5	72	35	1122	4.03	44	22	7	35	52	20.9	17	17	73	.57	.102	40	64	1.01	187	.08	27	1.93	.06	.15	16	52

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
L5+00E 11+50N	1	44	3	53	.4	12	8	571	3.81	10	<5	<2	3	9	.4	7	<2	83	.15	.073	7	24	.32	33	.16	<3	3.98	.02	.02	3	1
L5+00E 11+00N	1	29	6	55	.4	11	7	905	3.95	6	<5	<2	2	9	.3	4	<2	92	.18	.124	5	27	.42	31	.17	4	4.28	.01	.05	<2	<1
L5+00E 10+50N	1	15	14	26	<.3	7	<1	234	4.23	7	<5	<2	<2	11	<.2	3	<2	157	.17	.143	4	21	.13	38	.38	5	1.37	.01	.02	<2	1
L5+00E 10+00N	2	15	7	38	<.3	6	3	172	3.92	<2	5	<2	2	8	<.2	12	<2	94	.11	.462	4	22	.26	29	.17	<3	4.11	.01	.03	<2	1
L5+00E 9+50N	2	17	10	39	<.3	6	2	172	4.59	5	<5	<2	2	12	<.2	2	<2	147	.20	.058	3	22	.26	41	.30	3	2.34	.01	.03	<2	<1
L5+00E 9+00N	3	33	6	61	.3	9	7	1078	3.07	5	<5	<2	2	14	.2	<2	<2	76	.21	.159	7	20	.34	45	.16	<3	3.83	.02	.04	<2	1
L5+00E 8+50N	1	13	5	39	<.3	8	5	193	2.84	4	6	<2	<2	10	<.2	3	<2	81	.23	.058	4	18	.34	39	.11	<3	2.76	.02	.05	<2	1
L5+00E 8+00N	1	19	8	35	<.3	8	5	221	2.42	2	<5	<2	<2	18	<.2	4	<2	71	.26	.052	4	17	.38	78	.13	<3	2.35	.02	.09	<2	1
L5+00E 7+50N	1	21	4	49	<.3	8	3	238	3.61	6	<5	<2	2	11	<.2	3	<2	94	.21	.062	9	27	.27	50	.20	<3	5.44	.01	.04	<2	2
L5+00E 7+00N	10	44	24	58	.3	9	8	1154	4.50	6	<5	<2	2	8	<.2	<2	<2	90	.19	.113	11	38	.28	26	.15	<3	5.66	.01	.03	<2	3
L5+00E 6+50N	5	39	32	116	<.3	16	18	1043	4.13	9	<5	<2	3	8	.4	2	<2	97	.15	.072	6	30	.50	41	.15	<3	2.39	.01	.04	<2	2
L5+00E 6+00N	1	7	10	14	<.3	1	1	46	.50	3	<5	<2	<2	9	.2	<2	<2	18	.28	.015	2	3	.04	19	.03	<3	.35	.01	.02	<2	1
L5+00E 5+50N	5	11	9	15	<.3	6	<1	58	2.74	2	<5	<2	2	8	<.2	2	<2	131	.09	.030	2	15	.15	13	.33	<3	.52	.01	.04	<2	2
L6+00E 13+00N	6	30	27	63	<.3	16	1	79	4.26	7	<5	<2	3	7	<.2	<2	<2	141	.18	.079	4	42	.21	13	.19	114	2.11	.01	.01	<2	1
L6+00E 12+50N	8	33	11	68	.3	18	2	110	4.91	17	<5	<2	3	9	<.2	2	<2	162	.14	.093	4	47	.27	14	.22	<3	2.67	.01	.01	<2	1
L6+00E 12+00N	2	29	9	42	<.3	10	2	98	3.80	9	<5	<2	5	5	<.2	<2	<2	116	.13	.027	3	24	.27	11	.31	<3	2.04	.01	.01	<2	1
L6+00E 12+00N A	1	19	6	23	<.3	7	1	92	4.04	5	<5	<2	4	3	<.2	2	<2	149	.10	.032	2	23	.33	11	.40	<3	1.92	.01	.02	<2	1
L6+00E 11+50N	1	300	105	362	1.0	162	180	2174	6.26	18	<5	<2	7	73	.9	<2	<2	105	.43	.083	52	71	1.92	42	.12	3	5.86	.01	.06	<2	2
L6+00E 11+00N	2	90	58	140	.4	38	23	649	5.89	4	<5	<2	5	5	.2	5	<2	170	.14	.068	10	72	1.36	27	.25	<3	3.75	.01	.06	<2	4
L6+00E 10+50N	1	35	18	67	.3	29	11	400	4.38	7	<5	<2	4	5	.2	3	<2	134	.15	.071	5	52	.41	16	.32	<3	2.46	.01	.01	2	1
L6+00E 10+00N	1	39	8	39	.4	6	3	173	4.59	4	<5	<2	4	8	<.2	<2	<2	121	.13	.126	5	31	.31	23	.20	<3	6.55	.01	.02	<2	2
RE L6+00E 10+00N	1	39	8	38	.5	7	4	175	4.83	7	5	<2	3	9	<.2	3	<2	131	.13	.125	5	31	.31	23	.20	<3	6.50	.02	.02	2	-
L6+00E 9+00N	1	37	21	85	<.3	8	7	273	6.29	<2	<5	<2	5	4	<.2	2	<2	219	.12	.059	4	19	.78	22	.42	<3	3.05	.01	.08	<2	1
L6+00E 8+50N	2	30	20	57	.4	10	6	326	6.24	7	<5	<2	6	4	.2	4	<2	196	.08	.075	9	32	.61	24	.31	<3	3.08	.01	.03	<2	1
L6+00E 8+00N	1	22	6	53	.3	7	3	231	4.03	3	<5	<2	2	9	.2	2	<2	98	.14	.115	4	29	.25	37	.22	<3	5.63	.01	.04	<2	2
L6+00E 7+50N	2	26	25	47	<.3	10	6	363	5.77	5	<5	<2	4	7	.5	2	<2	166	.13	.072	3	41	.21	27	.36	<3	4.86	.01	.02	2	2
L7+00E 13+00N	11	52	17	134	<.3	42	27	424	5.73	6	<5	<2	5	11	.4	2	<2	80	.10	.119	10	32	.15	22	.11	<3	4.94	.01	<.01	<2	1
L7+00E 12+50N	4	71	9	113	<.3	40	15	503	4.56	4	<5	<2	3	10	.3	2	<2	107	.12	.122	9	43	.34	16	.11	<3	3.84	.01	.01	<2	2
L7+00E 12+00N	3	46	15	79	.3	34	16	601	5.28	5	<5	<2	3	10	.3	2	<2	133	.19	.100	7	57	.44	19	.16	<3	2.94	.01	.01	<2	2
L7+00E 11+50N	2	78	9	59	<.3	34	19	228	4.41	5	<5	<2	5	10	<.2	3	<2	109	.18	.038	10	27	.65	16	.18	<3	2.68	.01	.02	<2	1
L7+00E 11+00N	4	105	7	116	<.3	50	25	378	5.49	4	<5	<2	4	15	.3	4	<2	104	.21	.057	9	21	1.20	15	.15	<3	2.35	.01	.01	<2	1
L7+00E 10+50N	3	44	5	59	<.3	6	<1	170	6.61	2	<5	<2	5	4	.2	4	<2	206	.09	.044	3	27	.82	18	.48	<3	2.24	.01	.03	<2	<1
L7+00E 10+00N	1	37	7	94	<.3	28	10	243	4.37	4	<5	<2	3	21	.3	5	<2	153	.18	.039	4	58	1.29	18	.26	<3	2.28	.02	.01	<2	1
L7+00E 9+50N	1	88	5	137	.3	106	30	891	4.23	<2	<5	<2	2	20	.7	<2	<2	93	.68	.045	14	56	1.51	20	.16	<3	4.20	.04	.02	<2	2
L7+00E 9+00N	2	105	14	123	.3	94	35	645	7.13	<2	<5	<2	5	8	.3	<2	<2	224	.15	.033	10	179	2.52	40	.38	<3	5.33	.02	.04	<2	2
STANDARD C2/AU-S	20	58	39	143	6.2	70	34	1126	3.87	44	18	8	34	50	19.8	20	19	69	.54	.096	36	62	1.01	194	.07	26	1.94	.06	.14	15	45

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb
L7+00E 8+50N	8	51	97	182	.4	28	31	1521	5.71	4	<5	<2	5	25	.3	<2	<2	129	.38	.099	5	75	.97	41	.15	3	3.16	.01	.03	<2	1
L7+00E 8+00N	6	94	38	144	.9	20	18	1245	4.56	4	<5	<2	5	9	<.2	2	<2	118	.21	.195	7	46	.75	40	.22	4	5.48	.02	.08	<2	<1
L7+00E 7+50N	6	28	10	115	.3	14	13	502	3.95	<2	<5	<2	5	13	<.2	<2	3	88	.30	.111	8	37	.79	55	.26	4	7.84	.02	.09	2	1
L8+00E 13+00N	8	32	15	77	.6	27	13	1300	4.17	<2	<5	<2	4	7	.3	<2	2	98	.10	.190	6	36	.19	16	.10	<3	4.86	.01	.01	<2	<1
L8+00E 12+50N	7	56	12	67	<.3	48	15	222	3.28	<2	<5	<2	7	12	.3	<2	<2	49	.29	.122	17	31	.24	7	.04	<3	2.42	.02	<.01	<2	1
L8+00E 12+00N	10	55	14	167	.7	48	47	3576	5.47	<2	<5	<2	4	11	.5	<2	2	86	.19	.250	10	25	.29	17	.03	<3	2.38	.01	.01	<2	<1
L8+00E 11+50N	3	34	14	68	.6	52	8	353	4.66	6	<5	<2	2	9	<.2	2	<2	110	.13	.081	3	216	.66	14	.18	3	2.87	.01	.01	<2	1
L8+00E 11+00N	3	27	18	58	.4	20	3	214	5.16	2	<5	<2	2	10	<.2	<2	<2	144	.18	.061	4	60	.43	13	.26	<3	2.25	.01	<.01	<2	<1
L8+00E 10+50N	10	66	19	61	.3	41	6	135	5.28	<2	<5	<2	7	10	<.2	3	3	122	.16	.050	7	58	.35	10	.21	<3	4.06	.01	<.01	2	<1
L8+00E 10+00N	8	53	19	122	.4	45	23	955	5.45	4	<5	<2	5	18	.3	3	<2	107	.29	.075	9	63	.92	25	.21	3	3.05	.01	.02	<2	<1
L9+00E 13+00N	13	38	21	54	.4	25	2	201	4.37	3	<5	<2	3	5	<.2	3	<2	115	.06	.045	4	20	.11	17	.21	3	2.74	<.01	<.01	<2	1
L9+00E 12+50N	9	47	14	138	.3	31	51	1953	4.87	<2	<5	<2	5	13	1.0	2	<2	79	.41	.153	15	36	.26	23	.17	3	7.91	.02	.01	<2	2
L9+00E 12+00N	6	44	16	56	.3	13	11	688	3.70	<2	<5	<2	3	11	.2	<2	<2	92	.16	.088	6	23	.26	20	.17	<3	4.14	.02	.01	<2	1
L9+00E 11+50N	3	11	17	26	.3	15	4	194	3.26	2	<5	<2	<2	8	<.2	<2	<2	91	.12	.058	3	20	.07	16	.11	<3	.78	.01	.01	<2	<1
L9+00E 11+00N	5	31	15	50	.6	18	6	386	4.41	<2	<5	<2	4	9	.2	<2	<2	103	.15	.087	5	39	.35	23	.20	<3	5.01	.01	.02	<2	1
L9+00E 10+50N	5	32	22	45	.4	18	4	162	4.38	<2	<5	<2	3	7	.2	<2	<2	144	.09	.127	4	38	.21	9	.16	<3	2.95	.01	.01	<2	4
L10+00E 13+00N	10	36	19	50	<.3	13	5	184	4.45	<2	<5	<2	4	3	<.2	<2	<2	105	.06	.043	4	18	.13	15	.27	<3	3.73	.01	<.01	<2	<1
L10+00E 12+50N	7	37	14	58	<.3	16	6	258	3.05	<2	5	<2	3	14	<.2	3	<2	79	.22	.046	5	28	.45	18	.17	<3	4.07	.02	.02	<2	1
L10+00E 12+00N	8	29	20	78	.4	16	4	177	4.41	6	<5	<2	<2	10	<.2	4	<2	89	.19	.042	4	21	.32	18	.15	<3	1.19	.01	.02	<2	1
RE L10+00E 12+00N	7	29	21	77	.3	16	3	176	4.43	6	<5	<2	<2	10	.2	2	<2	90	.19	.042	3	21	.32	18	.15	<3	1.20	.01	.02	<2	1
L10+00E 11+50N	6	64	26	108	.4	47	23	817	5.47	<2	<5	<2	6	18	.4	3	<2	116	.13	.149	17	60	.38	14	.12	3	6.60	.01	.02	<2	<1
L10+00E 11+00N	8	36	22	46	<.3	15	5	339	4.59	4	<5	<2	2	7	.3	5	<2	97	.10	.091	6	30	.20	13	.18	3	4.45	.01	.01	3	1
L10+00E 10+50N	9	53	23	42	.5	28	10	681	5.57	2	<5	<2	2	8	<.2	2	<2	116	.11	.100	4	37	.37	9	.15	<3	2.46	.01	.02	<2	1
L11+00E 13+50N	6	83	20	29	<.3	17	6	398	3.96	<2	<5	<2	2	5	<.2	2	<2	102	.09	.038	4	17	.14	13	.16	<3	1.27	.01	.01	<2	<1
L11+00E 13+00N	4	26	16	49	.4	16	7	428	4.32	4	<5	<2	3	9	.4	2	<2	122	.14	.053	4	59	.24	16	.23	<3	3.28	.01	.01	<2	<1
L11+00E 12+50N	7	44	19	51	<.3	18	21	1882	5.27	3	<5	<2	3	7	.2	<2	<2	102	.09	.089	4	24	.31	24	.18	<3	2.75	.01	.01	<2	<1
L11+00E 12+00N	11	40	20	95	<.3	34	14	588	4.50	<2	<5	<2	3	8	<.2	<2	<2	98	.11	.061	8	33	.28	18	.21	<3	4.00	.01	.01	<2	<1
L11+00E 11+50N	9	28	30	84	<.3	36	12	704	4.28	<2	<5	<2	3	5	<.2	4	3	98	.10	.098	5	39	.30	20	.18	<3	3.76	.01	.01	<2	<1
L11+00E 11+00N	7	34	21	25	<.3	18	13	364	4.25	<2	<5	<2	2	4	.2	<2	<2	67	.07	.061	3	19	.11	8	.15	<3	2.53	.01	.01	<2	<1
L11+00E 10+50N	5	26	22	41	.4	13	8	609	4.38	2	<5	<2	3	9	.4	<2	2	120	.14	.119	5	34	.29	16	.22	<3	4.50	.01	.02	<2	2
L12+00E 13+00N	4	13	23	29	<.3	11	5	395	3.15	3	<5	<2	<2	13	<.2	3	2	78	.16	.038	3	25	.20	16	.16	<3	1.50	.01	.02	<2	1
L12+00E 12+50N	5	19	20	20	<.3	8	2	236	3.53	2	5	<2	<2	8	<.2	<2	<2	94	.12	.049	3	29	.20	13	.18	<3	1.54	.01	.02	<2	<1
L12+00E 12+00N	3	5	13	5	<.3	11	2	27	1.48	<2	<5	<2	<2	2	<.2	<2	<2	62	.04	.007	1	5	.03	4	.14	<3	.14	<.01	.01	<2	<1
L12+00E 11+50N	13	21	28	41	.5	16	2	304	4.18	6	<5	<2	<2	4	<.2	2	<2	142	.07	.067	3	15	.12	19	.19	<3	1.08	.01	.02	<2	1
L12+00E 11+00N	3	27	20	31	<.3	12	3	428	5.02	<2	<5	<2	<2	13	<.2	<2	<2	147	.21	.083	3	54	.25	33	.30	<3	2.01	.01	.01	<2	<1
STANDARD C2/AU-S	24	57	42	143	6.2	71	34	1167	3.89	42	16	8	34	51	19.5	20	16	70	.54	.098	37	63	1.03	197	.07	28	1.93	.06	.14	13	54

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.
AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.

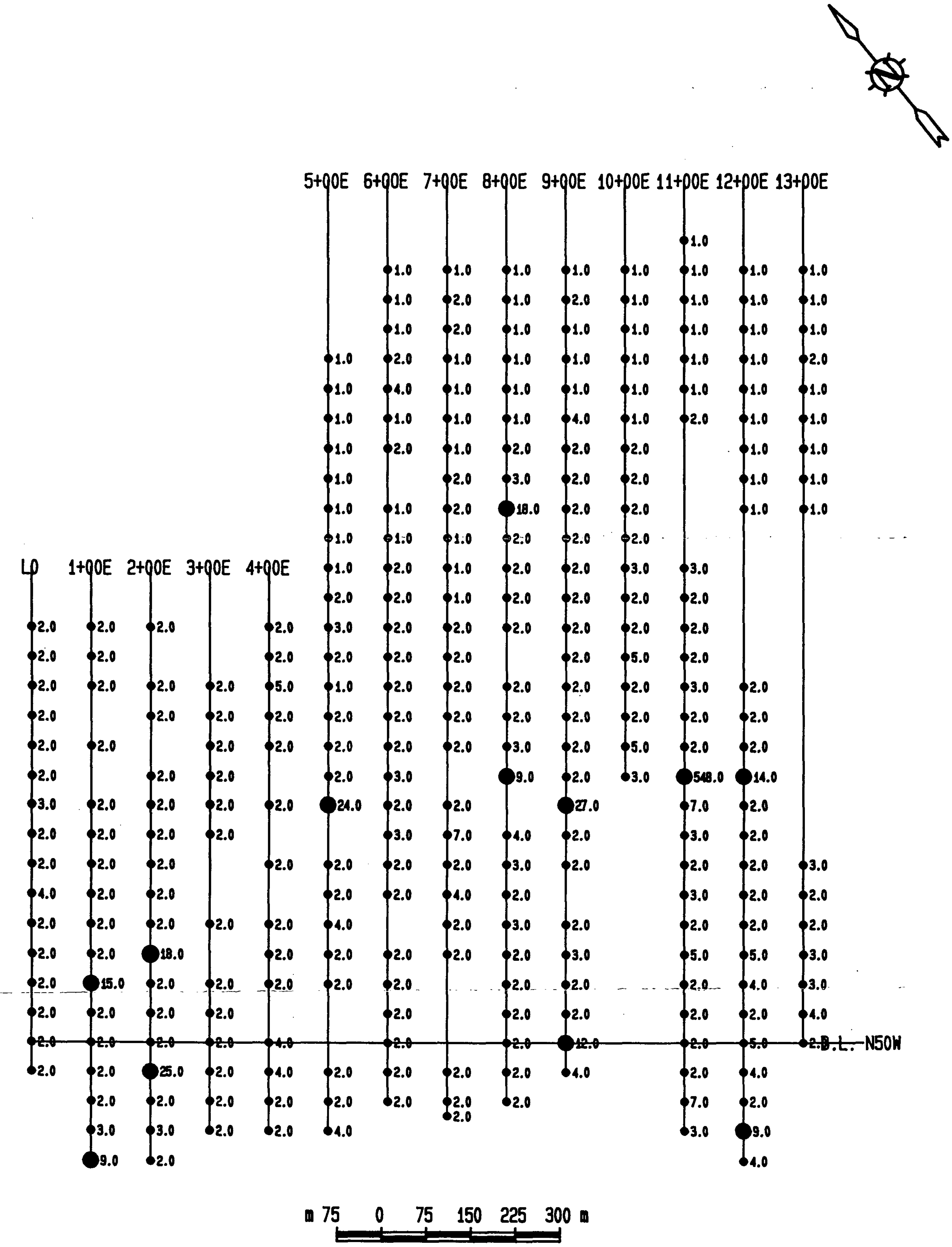
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
L12+00E 10+50N	13	32	14	96	<.3	38	4	283	4.00	4	<5	<2	<2	2	.3	<2	<2	118	.04	.091	2	12	.15	5	.13	<3	1.18	<.01	.01	<2	<1
L12+00E 10+00N	18	44	16	126	<.3	39	22	765	4.96	3	6	<2	3	6	.5	<2	<2	66	.13	.089	4	11	.09	10	.08	3	2.45	<.01	.02	2	<1
L12+00E 9+50N	23	49	20	45	<.3	24	5	123	8.74	2	<5	<2	2	3	.3	<2	<2	76	.09	.057	2	17	.07	8	.24	<3	.80	<.01	.02	<2	<1
L12+00E 9+00N	10	17	8	24	<.3	9	3	93	5.64	<2	<5	<2	2	9	.7	2	<2	222	.14	.033	3	32	.18	20	.40	6	1.66	.01	.02	<2	1
L13+00E 13+00N	3	40	9	49	<.3	21	10	441	4.78	3	<5	<2	2	11	.7	<2	<2	138	.19	.071	8	59	.53	36	.28	<3	5.38	.01	.02	4	<1
L13+00E 12+50N	3	41	<3	38	<.3	22	6	401	5.31	<2	<5	<2	2	10	.5	<2	<2	183	.21	.053	5	91	.64	22	.37	<3	4.95	.01	.02	3	<1
RE L13+00E 12+50N	3	40	9	36	<.3	24	7	390	5.22	<2	<5	<2	2	10	.9	<2	<2	181	.20	.052	5	87	.61	22	.36	<3	4.84	.01	.02	5	<1
L13+00E 12+00N	7	32	4	23	<.3	13	4	306	6.23	4	<5	<2	2	5	.6	<2	<2	221	.10	.094	5	91	.40	27	.43	<3	3.45	.01	.02	3	<1
L13+00E 11+50N	2	72	5	36	<.3	50	12	285	4.78	<2	<5	<2	<2	5	.3	2	<2	130	.21	.053	3	154	.90	18	.27	<3	3.19	.03	.02	2	2
L13+00E 11+00N	3	39	14	49	<.3	18	14	2126	4.72	5	<5	<2	<2	7	.7	<2	<2	147	.22	.083	6	60	.70	23	.30	<3	2.94	.03	.02	4	<1
L13+00E 10+50N	14	47	9	78	.4	22	14	499	5.27	7	<5	<2	4	6	1.1	3	<2	102	.06	.109	4	44	.22	18	.15	<3	6.14	.01	.01	4	1
L13+00E 10+00N	24	79	19	110	.5	37	6	380	5.99	6	<5	<2	3	10	.5	<2	<2	85	.06	.087	3	15	.26	6	.14	4	2.86	<.01	.02	2	<1
L13+00E 9+50N	11	14	12	30	.3	12	2	116	4.70	3	<5	<2	3	8	.5	2	2	187	.09	.054	3	25	.11	16	.30	<3	1.68	.01	.01	2	1
L13+00E 9+00N	27	52	11	63	<.3	25	5	237	5.86	<2	<5	<2	3	6	.6	<2	<2	149	.05	.059	4	20	.17	8	.19	<3	2.97	<.01	.01	3	<1
STANDARD C2/AU-S	22	63	45	139	6.6	79	38	1246	4.11	42	18	8	36	54	21.2	18	17	76	.55	.097	41	69	1.05	209	.09	30	2.15	.06	.15	14	47

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.
AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.

SECTION IV

APPENDIX IV

1996 Geochemical soil survey plots and geostatistics



EW Grove Consultants
4581 Boulderwood Drive
Victoria, B.C.
V8Y 3A5

DATE: 06/08/96 TIME: 13:49:23

SCALE (HOR) 1:7500 SCALE (VERT) 1:7500

Software by GEMCOM Services Inc.

AQUISTAR VENTURES INC. - HOPE 2 & 3 CLAIMS
SONORA ISLAND, B.C.; NANAIMO M.D.
1996 GEOCHEMICAL SOIL SURVEY - GOLD (PPB)
ANOMALOUS GOLD VALUES => 9 PPB (LARGE DOT)

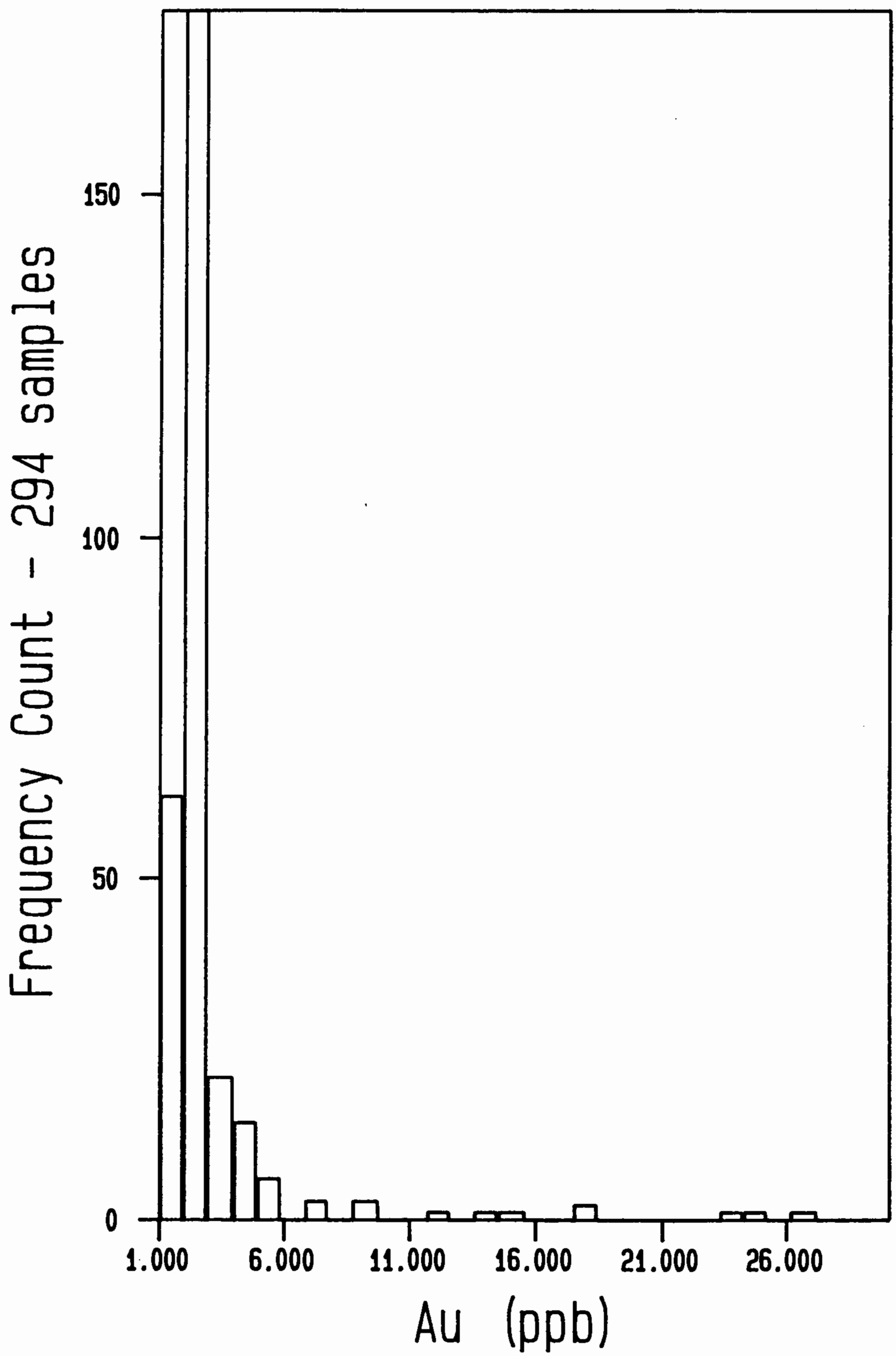
Extraction File : C:\PXDBAQ\EXTRACT\SAUPPB.MEX
Data Description : HOPE SOIL GEOCHEM - GOLD

Minimum Cutoff Value	1.000000
Maximum Cutoff Value	30.000100
Number of Samples <=0	0
Total Number of Samples Used	294
Minimum Histogram Value	1.000000
Maximum Histogram Value	30.000100
Number of Class	30
Class Interval	0.966700
Minimum Population Data point	1.000000
Maximum Population Data point	548.000000
Total Population	295

	Ungrouped Data	Grouped Data
Mean	2.605442	3.035331
Median	N/A	2.430934
Geometric Mean	2.046605	2.552546
Natural LOG Mean	0.716182	0.937091
Standard Deviation	3.124531	3.020484
Variance	9.762691	9.123322
Log Variance	0.327836	0.230125
Coefficient of Variation	1.199232	0.995109
Moment 1 about Arithmetic Mean	0.000000	0.000000
Moment 2 about Arithmetic Mean	9.762691	9.123322
Moment 3 about Arithmetic Mean	162.977806	147.232479
Moment 4 about Arithmetic Mean	3342.073546	2918.655772
Moment Coefficient of Skewness	35.065245	35.065245
Moment Coefficient of Kurtosis	5.342864	5.342864

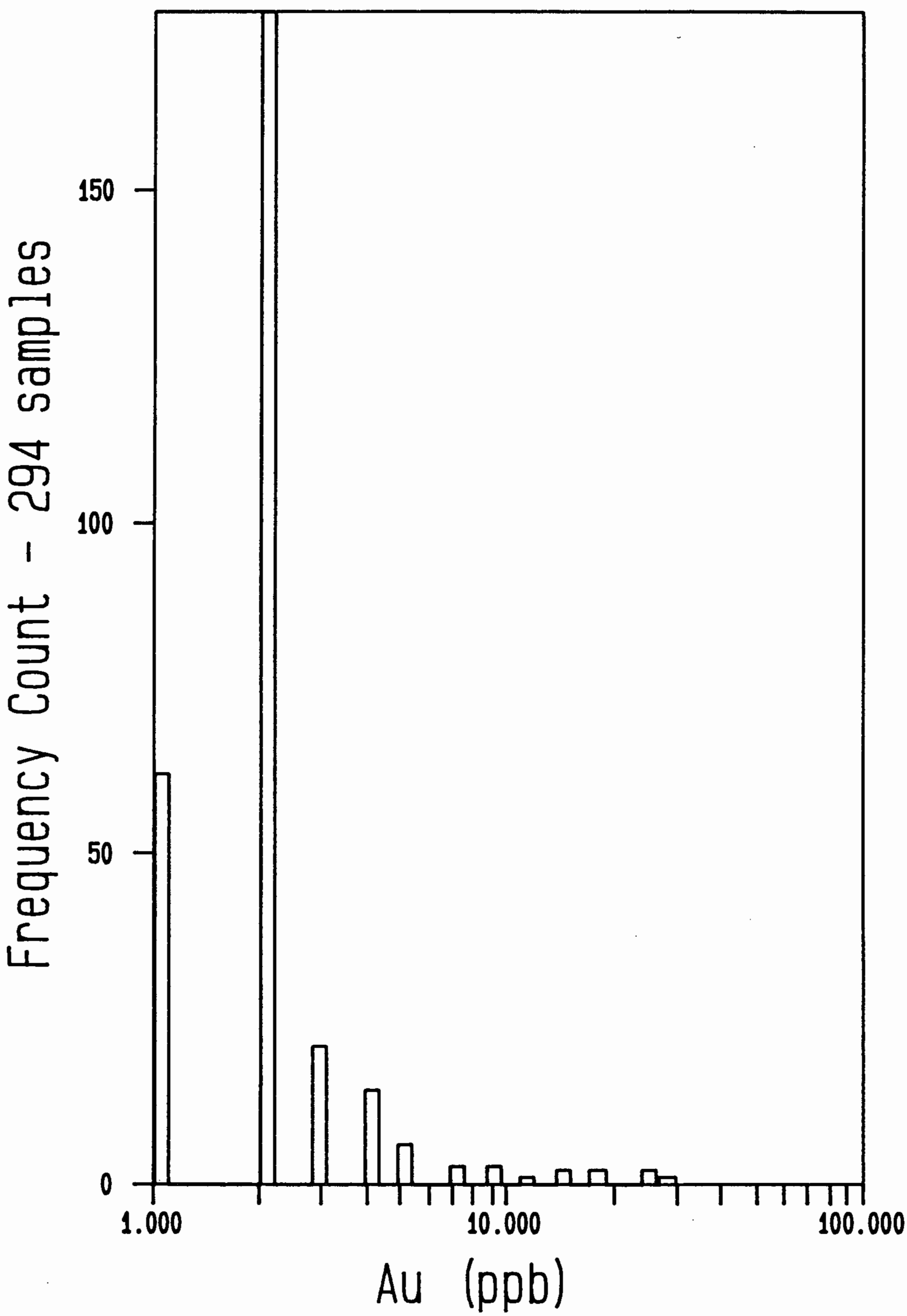
Normal Histogram

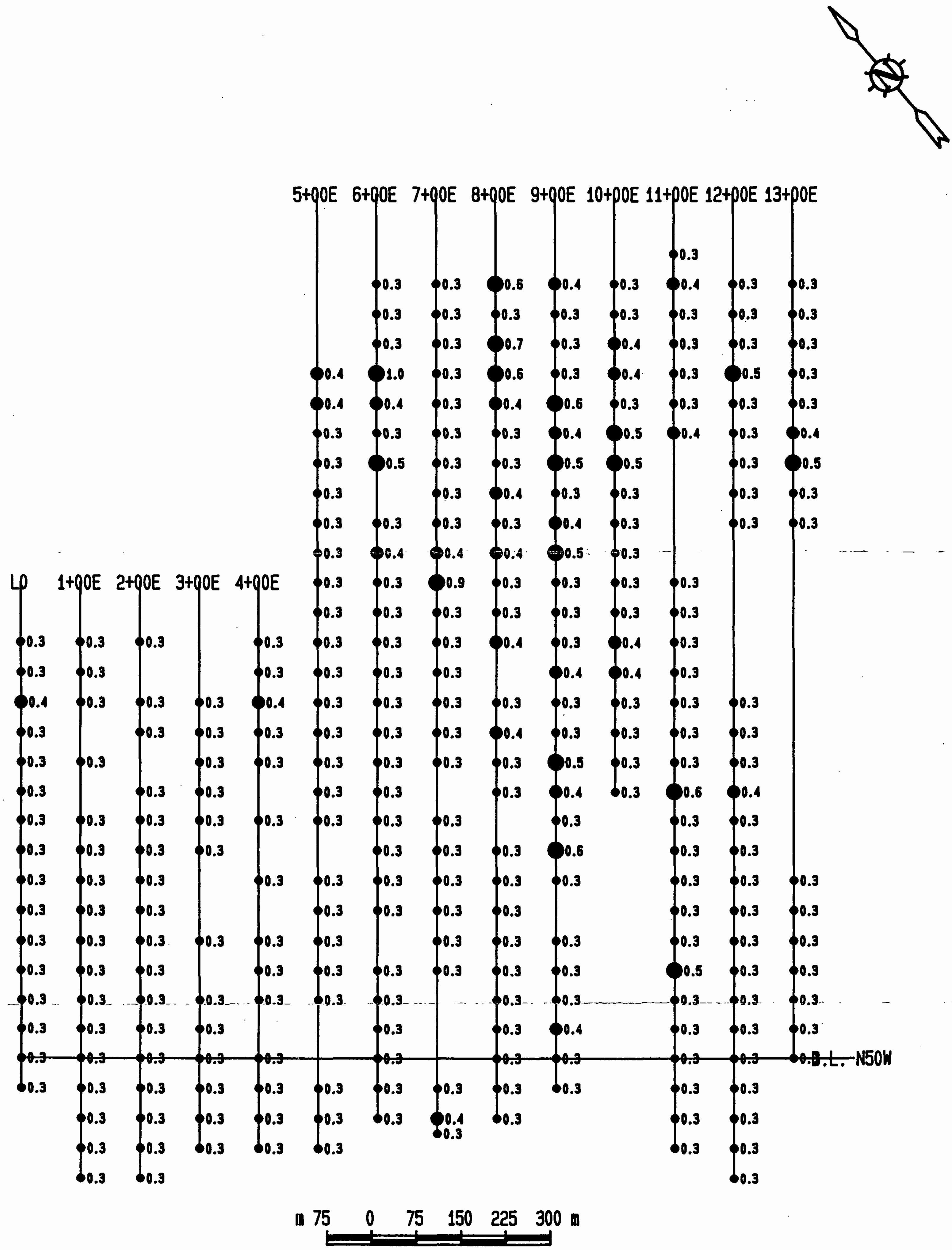
HOPE SOIL GEOCHEM - GOLD



LOG Normal Histogram

HOPE SOIL GEOCHEM - GOLD





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4581 Boulderwood Drive
Victoria, B.C.
V8Y 3A5

DATE: 06/08/96 TIME: 14:02:03

SCALE (HOR) 1:7500 SCALE (VERT) 1:7500

Software by GEMCOM Services Inc.

AQUISTAR VENTURES INC. - HOPE 2 & 3 CLAIMS
SONORA ISLAND, B.C.; NANAIMO M.D.

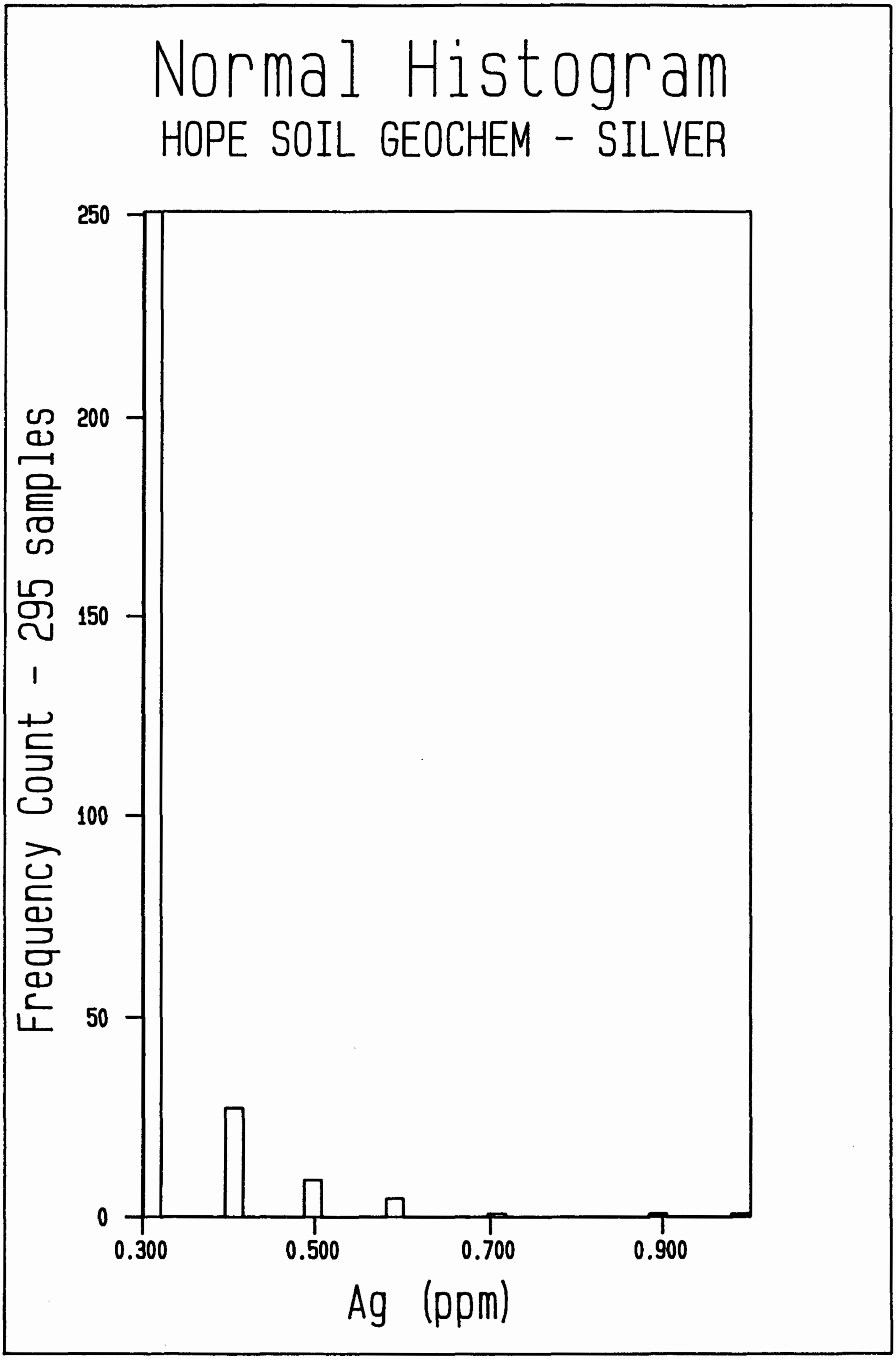
1996 GEOCHEMICAL SOIL SURVEY - SILVER (PPM)

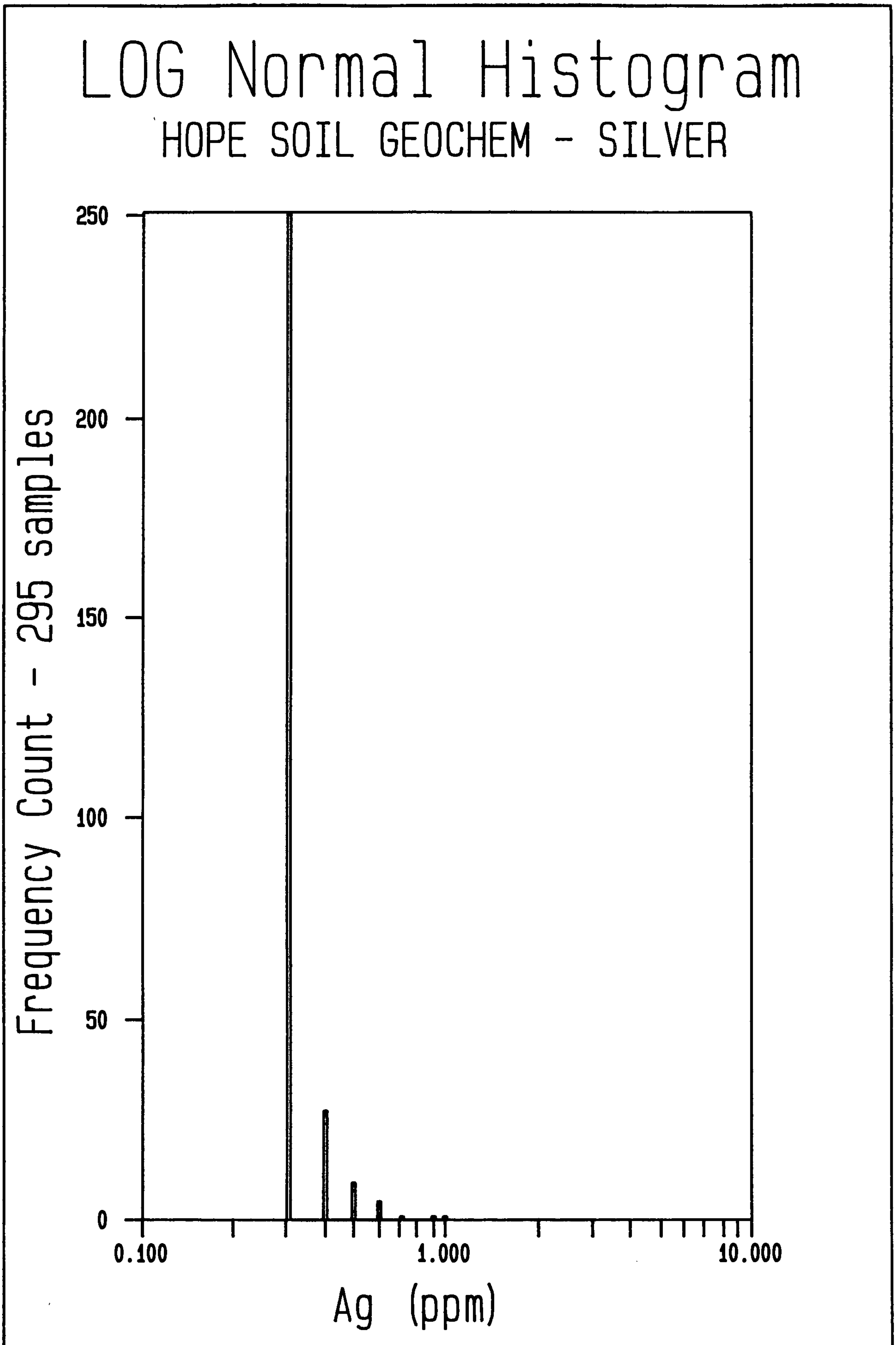
SILVER VALUES =.4 PPM (MED), =>.5 PPM (LARGE)

Extraction File : C:\PXDBAQ\EXTRACT\SAGPPM.MEX
Data Description : HOPE SOIL GEOCHEM - SILVER

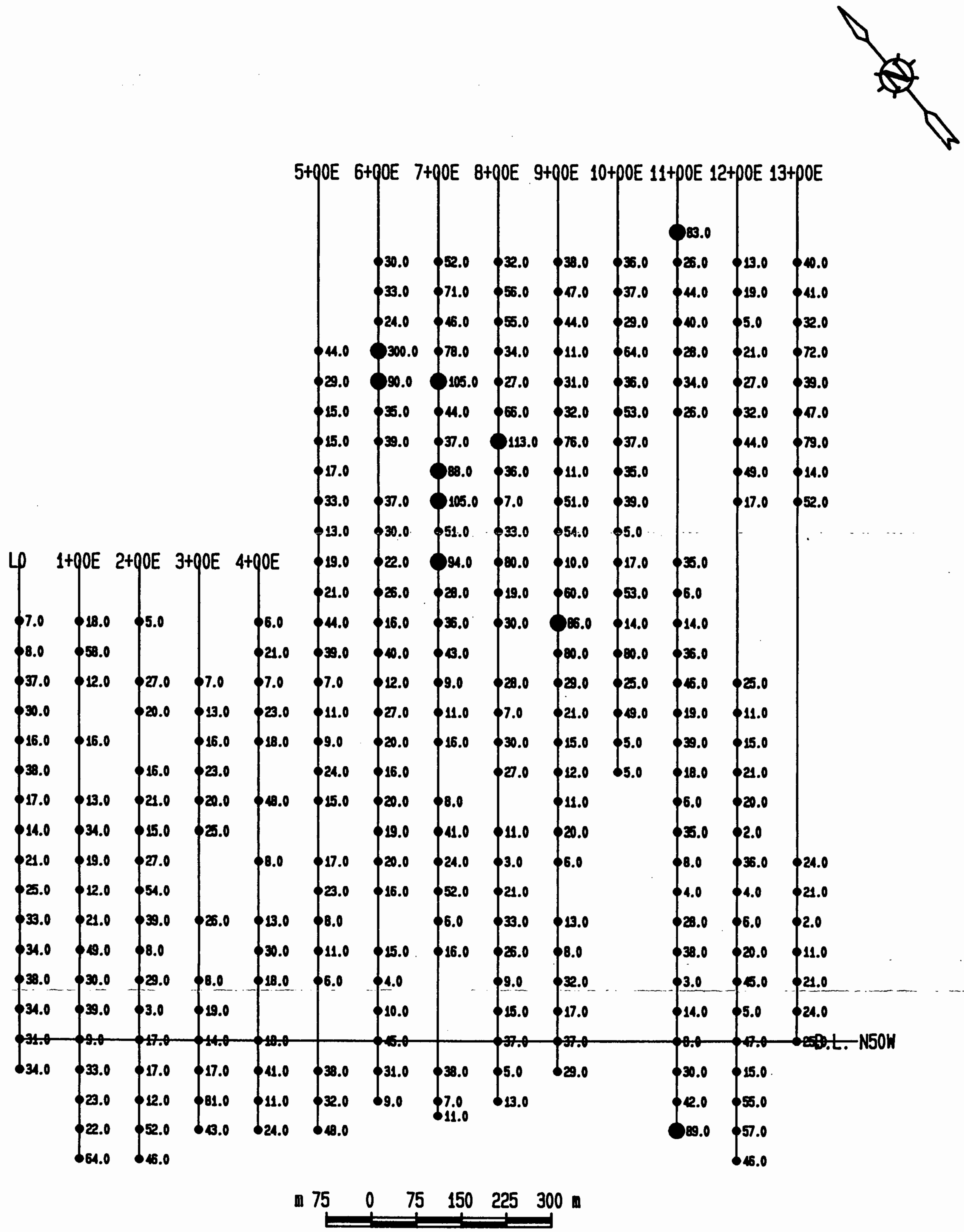
Minimum Cutoff Value	0.300000
Maximum Cutoff Value	1.000100
Number of Samples <=0	0
Total Number of Samples Used	295
Minimum Histogram Value	0.300000
Maximum Histogram Value	1.000100
Number of Class	30
Class Interval	0.023300
Minimum Population Data point	0.300000
Maximum Population Data point	1.000000
Total Population	295

	Ungrouped Data	Grouped Data
Mean	0.326102	0.336214
Median	N/A	0.313692
Geometric Mean	0.319937	0.330711
Natural LOG Mean	-1.139632	-1.106509
Standard Deviation	0.080022	0.076200
Variance	0.006403	0.005806
Log Variance	0.030978	0.026951
Coefficient of Variation	0.245388	0.226641
Moment 1 about Arithmetic Mean	0.000000	0.000000
Moment 2 about Arithmetic Mean	0.006403	0.005806
Moment 3 about Arithmetic Mean	0.002386	0.002126
Moment 4 about Arithmetic Mean	0.001260	0.001097
Moment Coefficient of Skewness	30.716709	32.549977
Moment Coefficient of Kurtosis	4.656158	4.804838


Normal Histogram
HOPE SOIL GEOCHEM - SILVER
Frequency Count - 295 samples
250
200
150
100
50
0
0.300
0.500
0.700
0.900
Ag (ppm)



LOG Normal Histogram
HOPE SOIL GEOCHEM - SILVER
Frequency Count - 295 samples
250
200
150
100
50
0
0.100
1.000
10.000
Ag (ppm)



EW Grove Consultants
4581 Boulderwood Drive
Victoria, B.C.
V8Y 3A5

DATE: 06/08/96 TIME: 14:53:52

SCALE (HOR) 1:7500 SCALE (VERT) 1:7500

Software by GENCOM Services Inc.

AQUISTAR VENTURES INC. - HOPE 2 & 3 CLAIMS
SONORA ISLAND, B.C.; NANAIMO M.D.
1996 GEOCHEMICAL SOIL SURVEY - COPPER (PPM)
ANOMALOUS COPPER VALUES => 82 PPM (LARGE DOT)

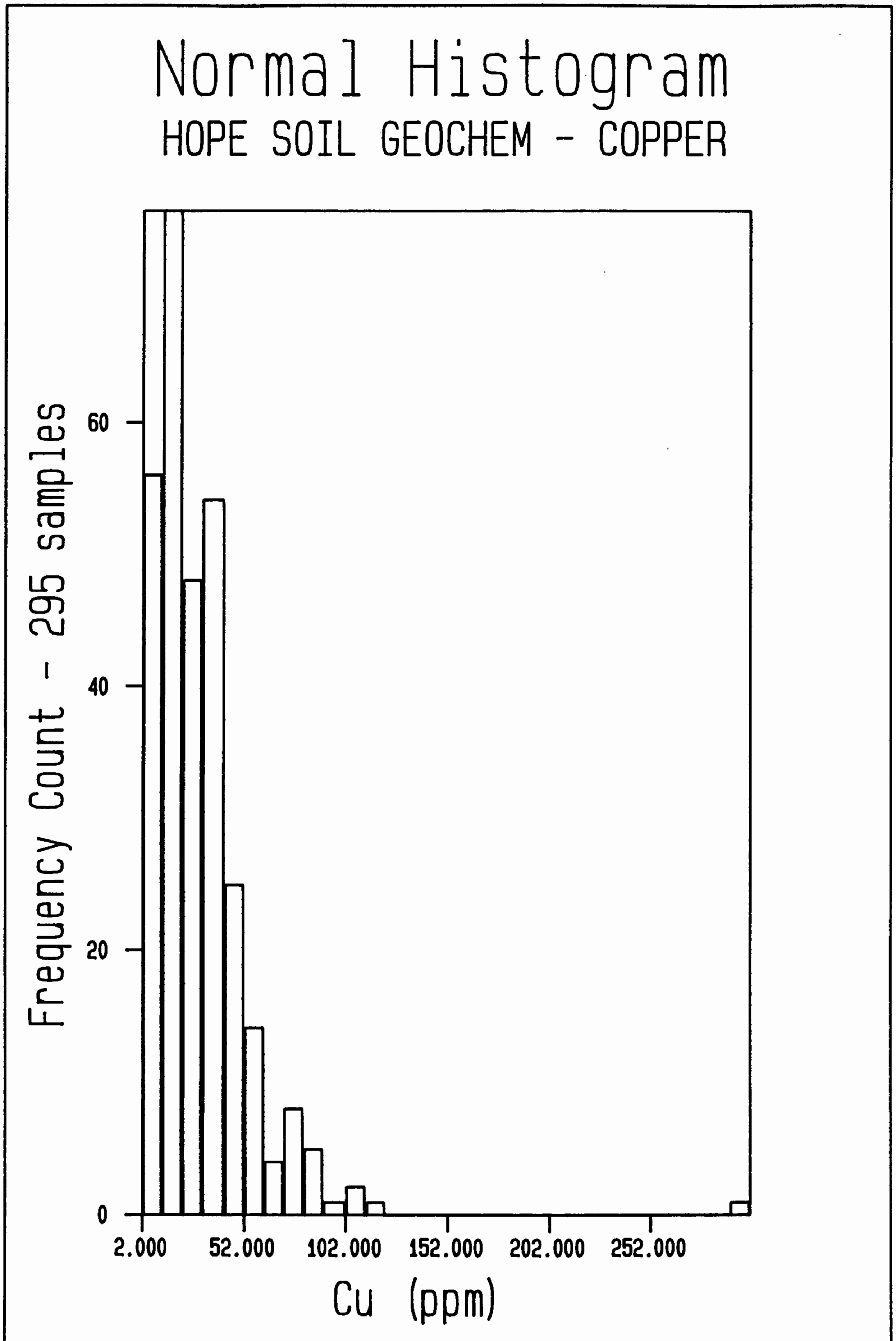
Extraction File : C:\PXDBAQ\EXTRACT\SCUPPM.MEX
Data Description : HOPE SOIL GEOCHEM - COPPER

Minimum Cutoff Value	2.000000
Maximum Cutoff Value	300.000100
Number of Samples <=0	0
Total Number of Samples Used	295

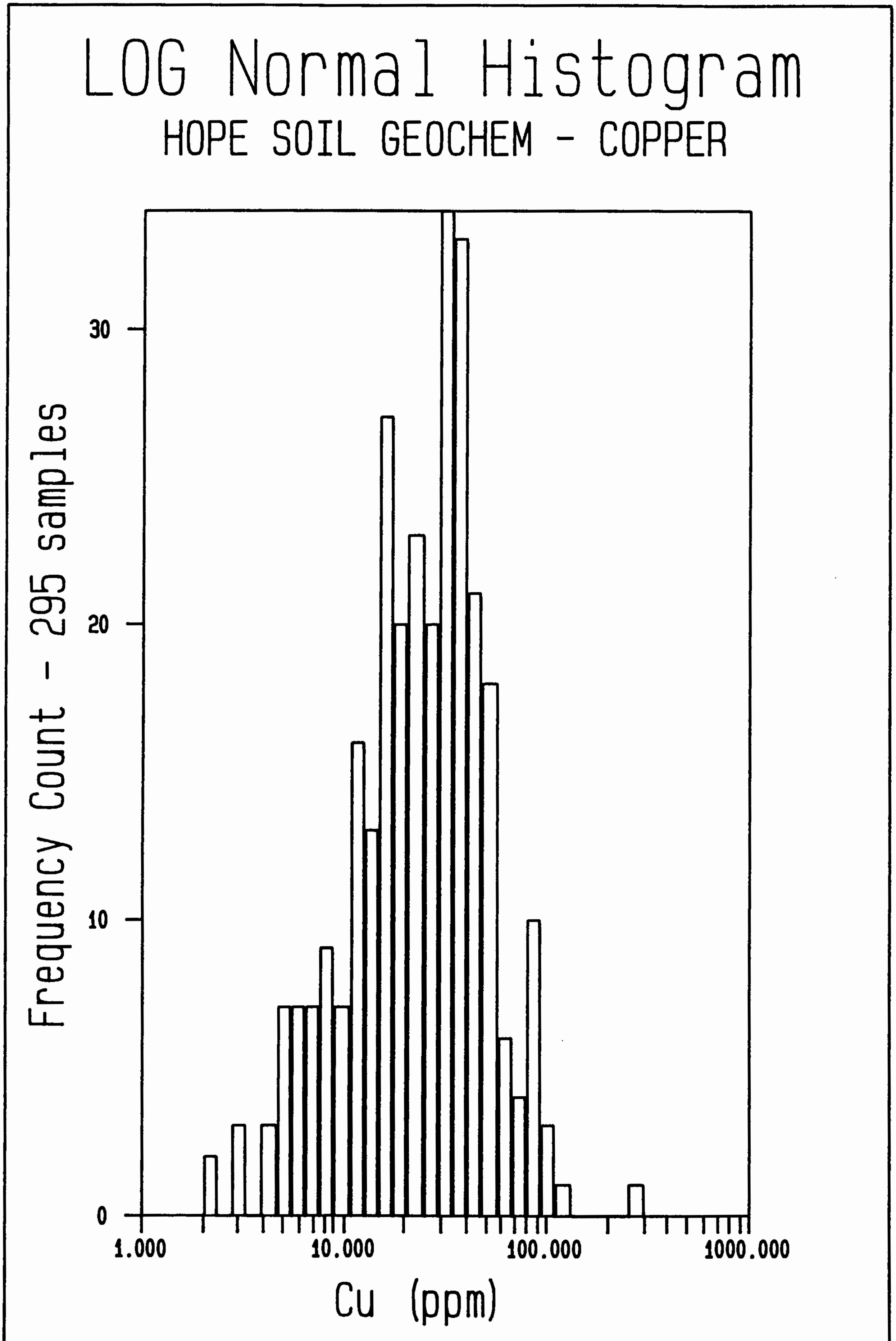
Minimum Histogram Value	2.000000
Maximum Histogram Value	300.000100
Number of Class	30
Class Interval	9.933300

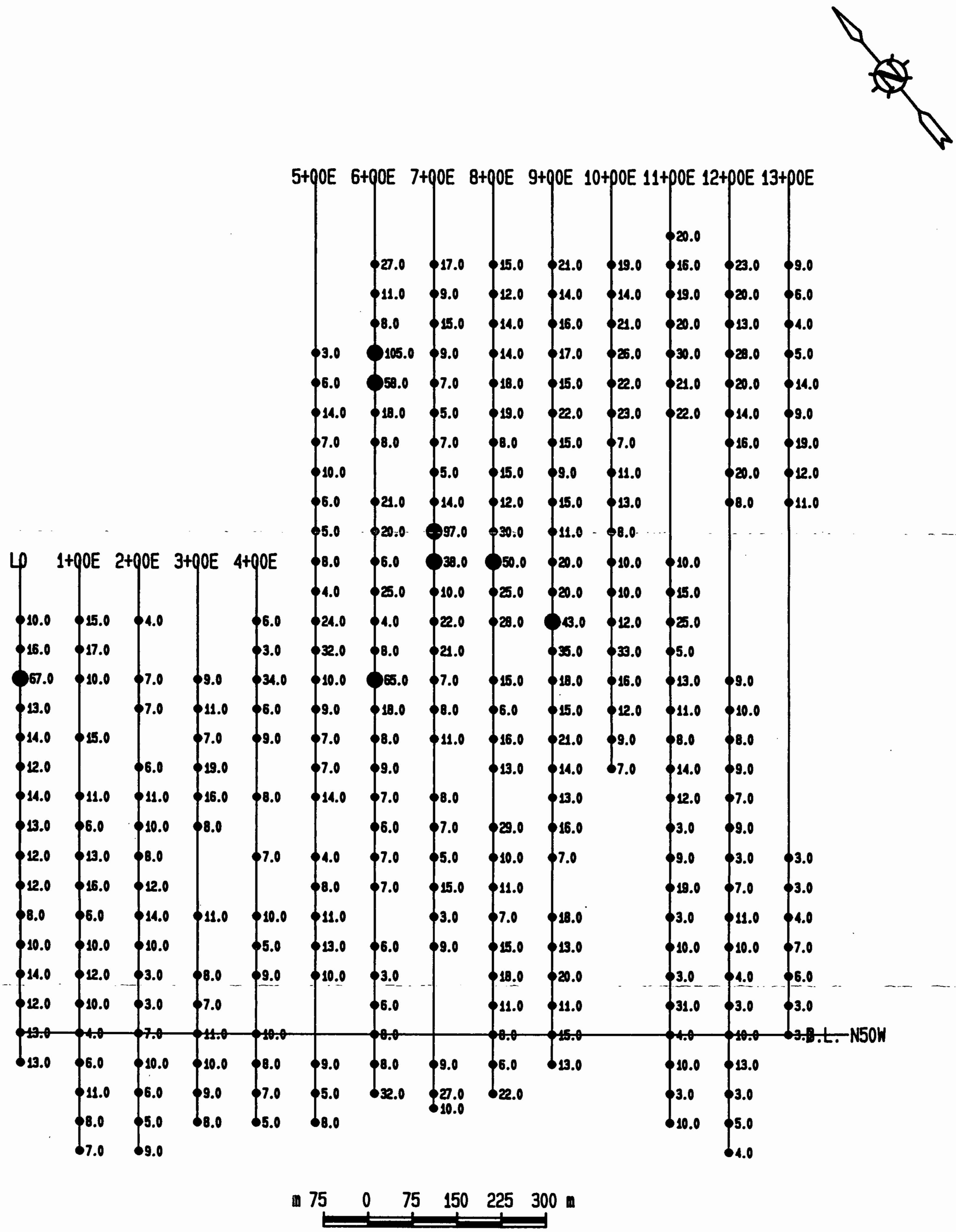
Minimum Population Data point	2.000000
Maximum Population Data point	300.000000
Total Population	295

	Ungrouped Data	Grouped Data
Mean	30.132203	30.301487
Median	N/A	25.074228
Geometric Mean	22.746402	23.148307
Natural LOG Mean	3.124407	3.141922
Standard Deviation	25.830861	25.702194
Variance	667.233370	660.602765
Log Variance	0.613077	0.558409
Coefficient of Variation	0.857251	0.848216
Moment 1 about Arithmetic Mean	0.000000	0.000000
Moment 2 about Arithmetic Mean	667.233370	660.602765
Moment 3 about Arithmetic Mean	77240.528861	73564.641805
Moment 4 about Arithmetic Mean	18853444.078466	17534005.251727
Moment Coefficient of Skewness	42.348222	40.179114
Moment Coefficient of Kurtosis	4.481554	4.332699



Normal Histogram
HOPE SOIL GEOCHEM - COPPER
Frequency Count - 295 samples
0
20
40
60
2.000
52.000
102.000
152.000
202.000
252.000
Cu (ppm)


LOG Normal Histogram
HOPE SOIL GEOCHEM - COPPER
Frequency Count - 295 samples
30
20
10
0
1.000
10.000
100.000
1000.000
Cu (ppm)



EW Grove Consultants
4581 Boulderwood Drive
Victoria, B.C.
V8Y 3A5

DATE: 06/08/96 TIME: 15:04:17

SCALE (HOR) 1:7500 SCALE (VERT) 1:7500

AQUISTAR VENTURES INC. - HOPE 2 & 3 CLAIMS
SONORA ISLAND, B.C.; NANAIMO M.D.

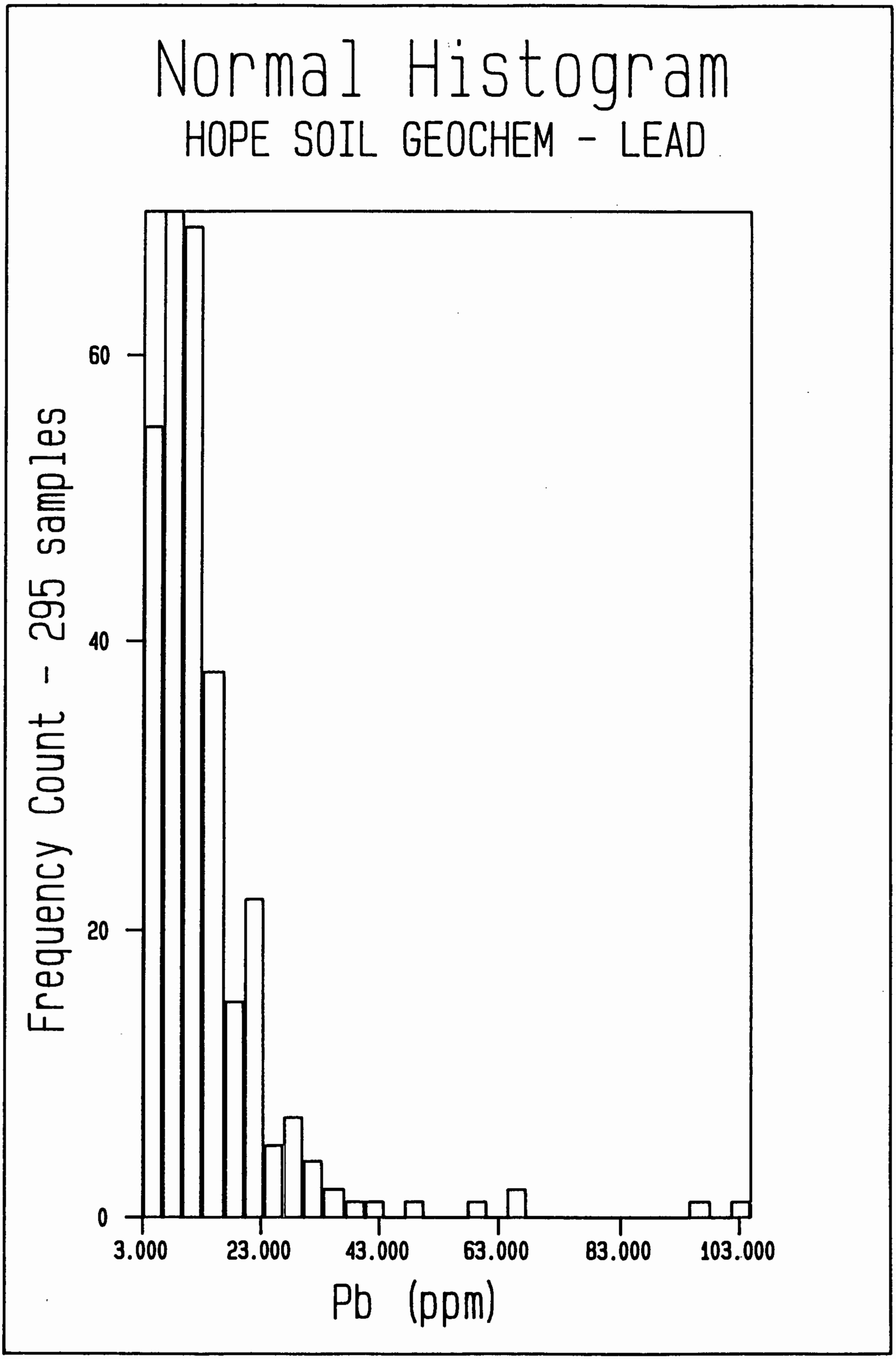
1996 GEOCHEMICAL SOIL SURVEY - LEAD (PPM)
ANOMALOUS LEAD VALUES => 36 PPM (LARGE DOT)

Software by GEOCOM Services Inc.

Extraction File : C:\PXDBAQ\EXTRACT\SPBPPM.MEX
Data Description : HOPE SOIL GEOCHEM - LEAD

Minimum Cutoff Value	3.000000
Maximum Cutoff Value	105.000100
Number of Samples <=0	0
Total Number of Samples Used	295
Minimum Histogram Value	3.000000
Maximum Histogram Value	105.000100
Number of Class	30
Class Interval	3.400000
Minimum Population Data point	3.000000
Maximum Population Data point	105.000000
Total Population	295

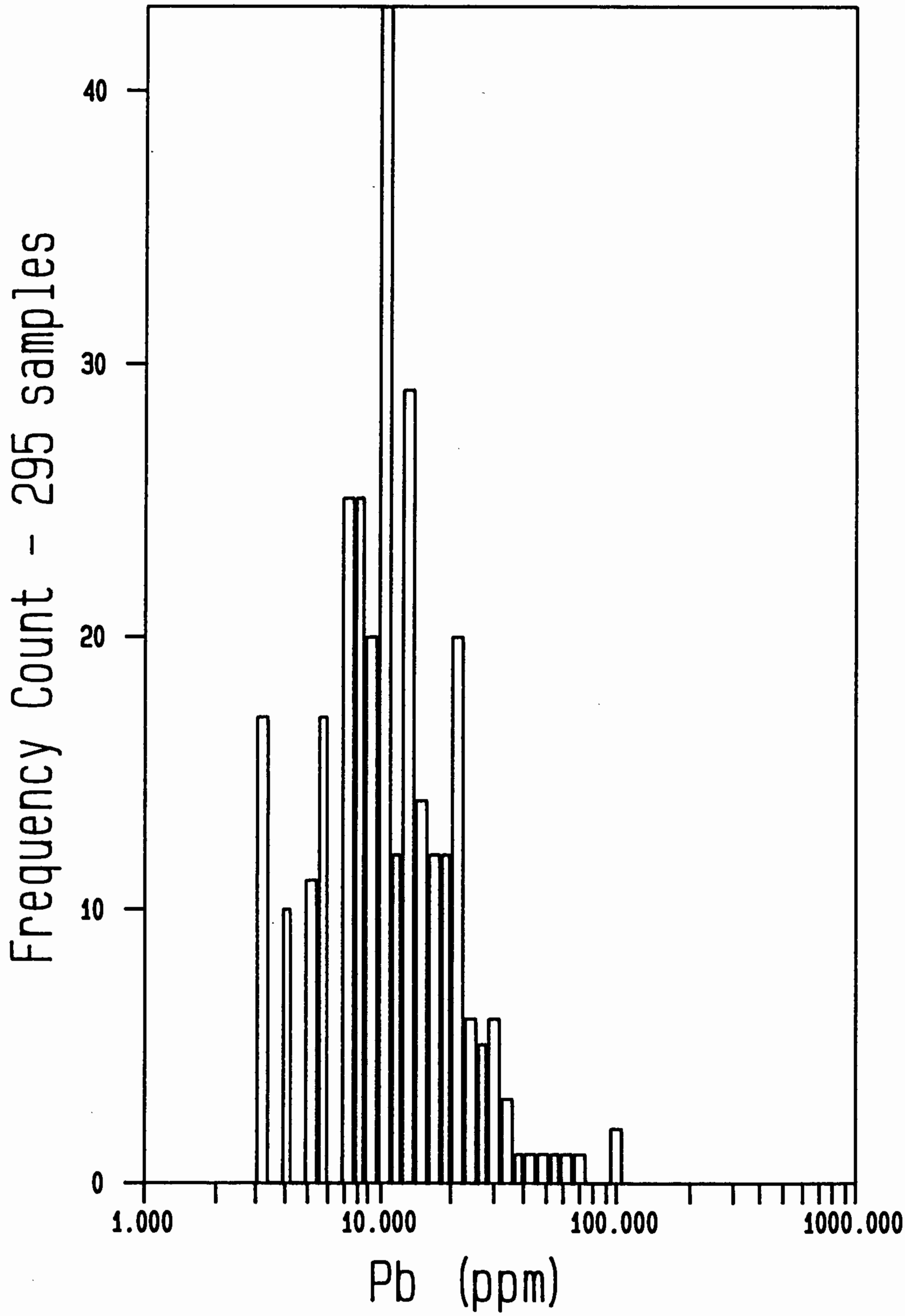
	Ungrouped Data	Grouped Data
Mean	13.284746	13.493898
Median	N/A	10.908696
Geometric Mean	10.655681	11.005057
Natural LOG Mean	2.366093	2.398355
Standard Deviation	11.498870	11.388122
Variance	132.224005	129.689319
Log Variance	0.403236	0.357903
Coefficient of Variation	0.865569	0.843946
Moment 1 about Arithmetic Mean	0.000000	0.000000
Moment 2 about Arithmetic Mean	132.224005	129.689319
Moment 3 about Arithmetic Mean	6341.948272	6118.226693
Moment 4 about Arithmetic Mean	488902.839756	462471.596375
Moment Coefficient of Skewness	27.964171	27.496451
Moment Coefficient of Kurtosis	4.171164	4.142564

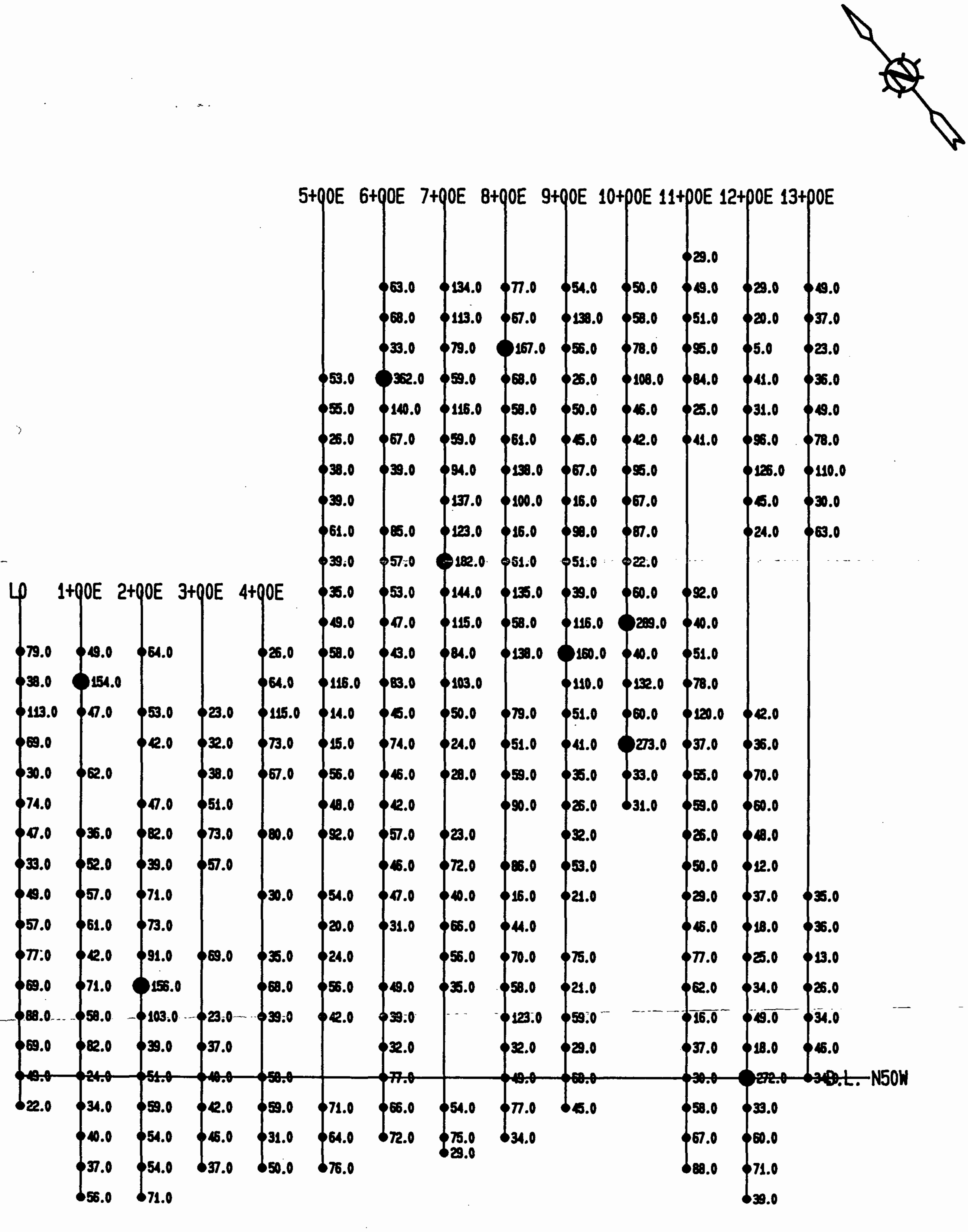


Normal Histogram
HOPE SOIL GEOCHEM - LEAD
Frequency Count - 295 samples
60
40
20
0
3.000
23.000
43.000
63.000
83.000
103.000
Pb (ppm)

LOG Normal Histogram

HOPE SOIL GEOCHEM - LEAD





EW Grove Consultants
4581 Boulderwood Drive
Victoria, B.C.
V8Y 3A5

DATE: 06/08/96 TIME: 15:14:58

SCALE (HOR) 1:7500 SCALE (VERT) 1:7500

AQUISTAR VENTURES INC. - HOPE 2 & 3 CLAIMS

SONORA ISLAND, B.C.; NANAIMO M.D.

1996 GEOCHEMICAL SOIL SURVEY - ZINC (PPM)

ANOMALOUS ZINC VALUES => 145 PPM (LARGE DOT)

Software by GEMCOM Services Inc.

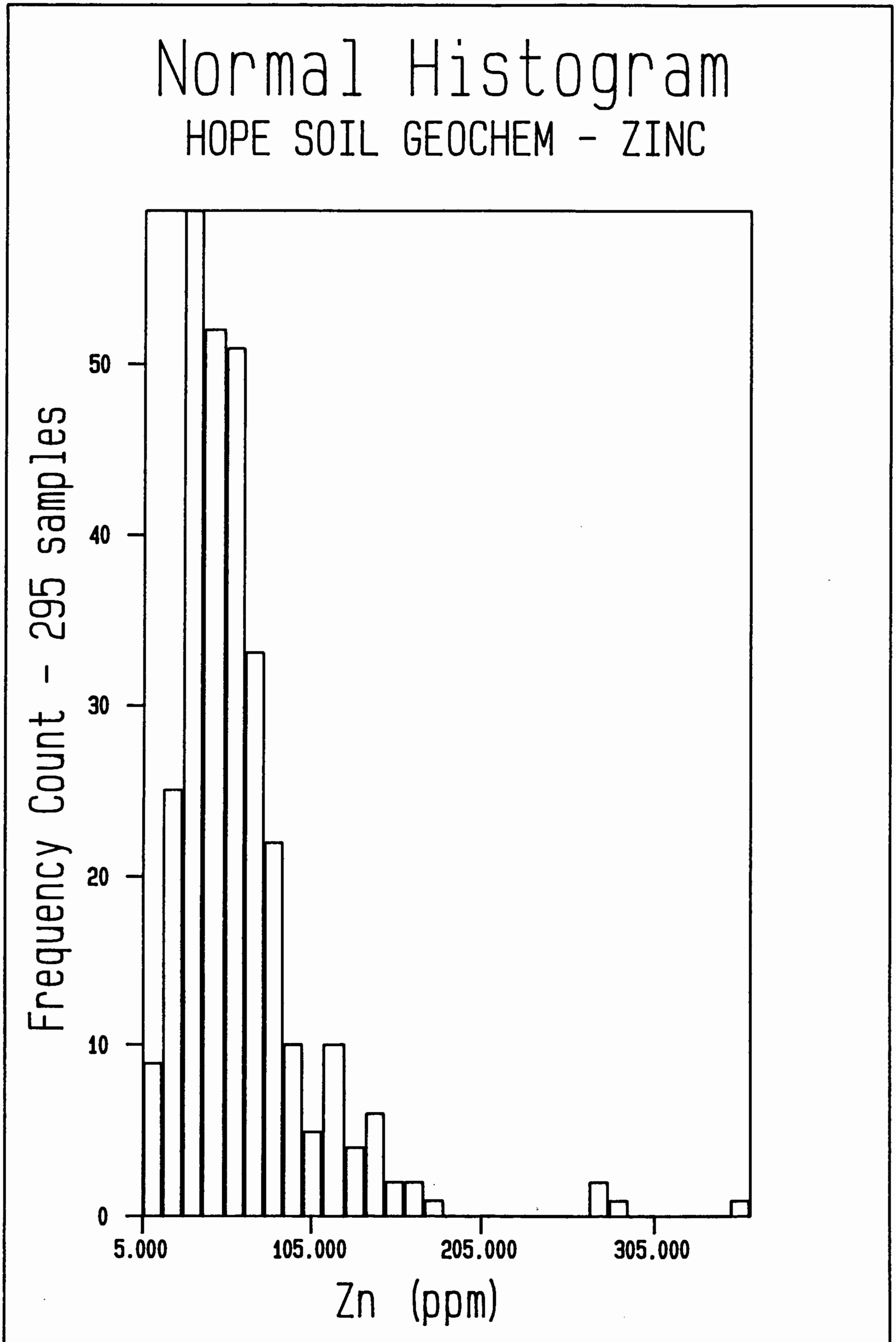
Extraction File : C:\PXDBAQ\EXTRACT\SZNPPM.MEX
Data Description : HOPE SOIL GEOCHEM - ZINC

Minimum Cutoff Value	5.000000
Maximum Cutoff Value	362.000100
Number of Samples <=0	0
Total Number of Samples Used	295

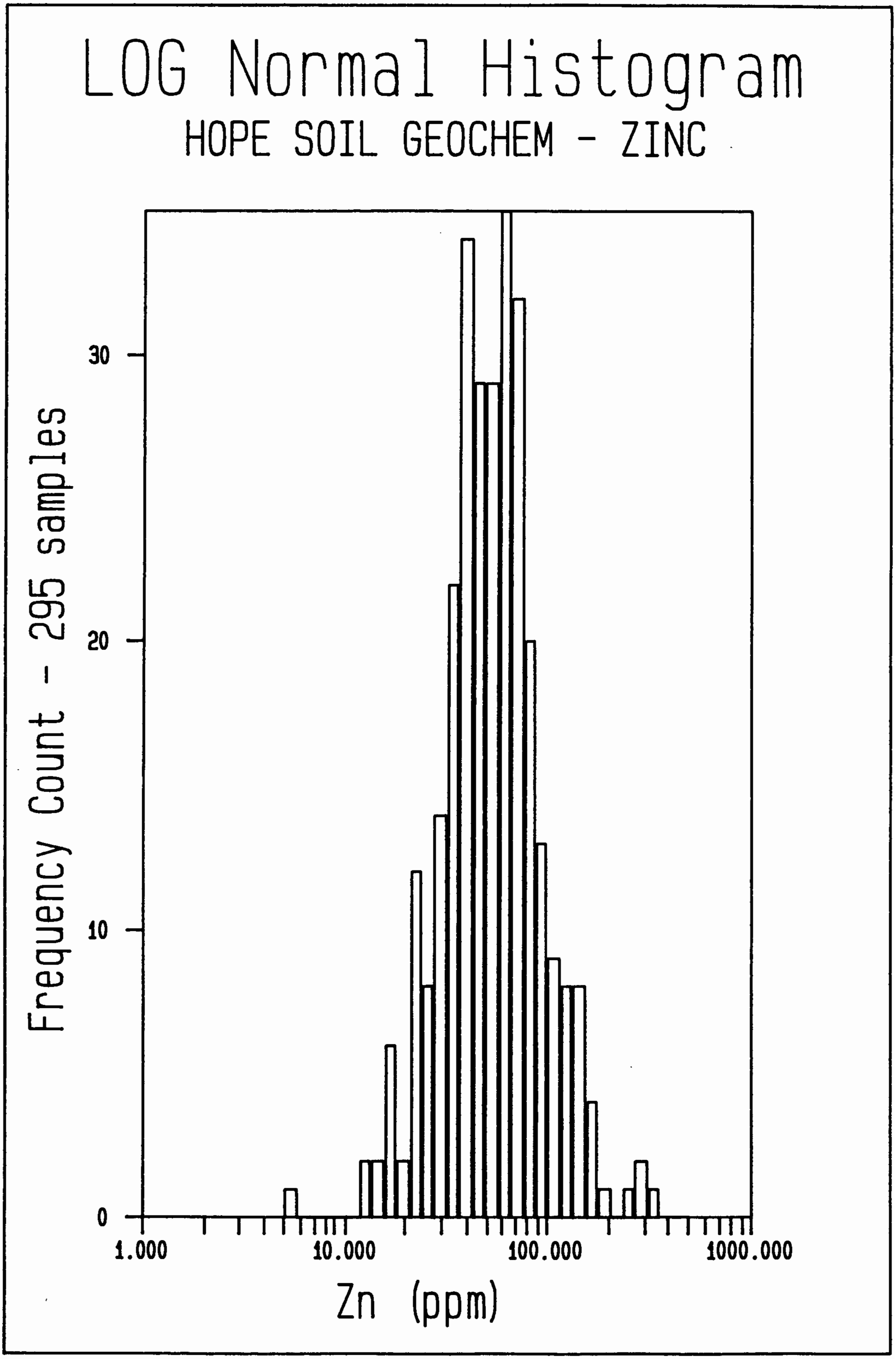
Minimum Histogram Value	5.000000
Maximum Histogram Value	362.000100
Number of Class	30
Class Interval	11.900000

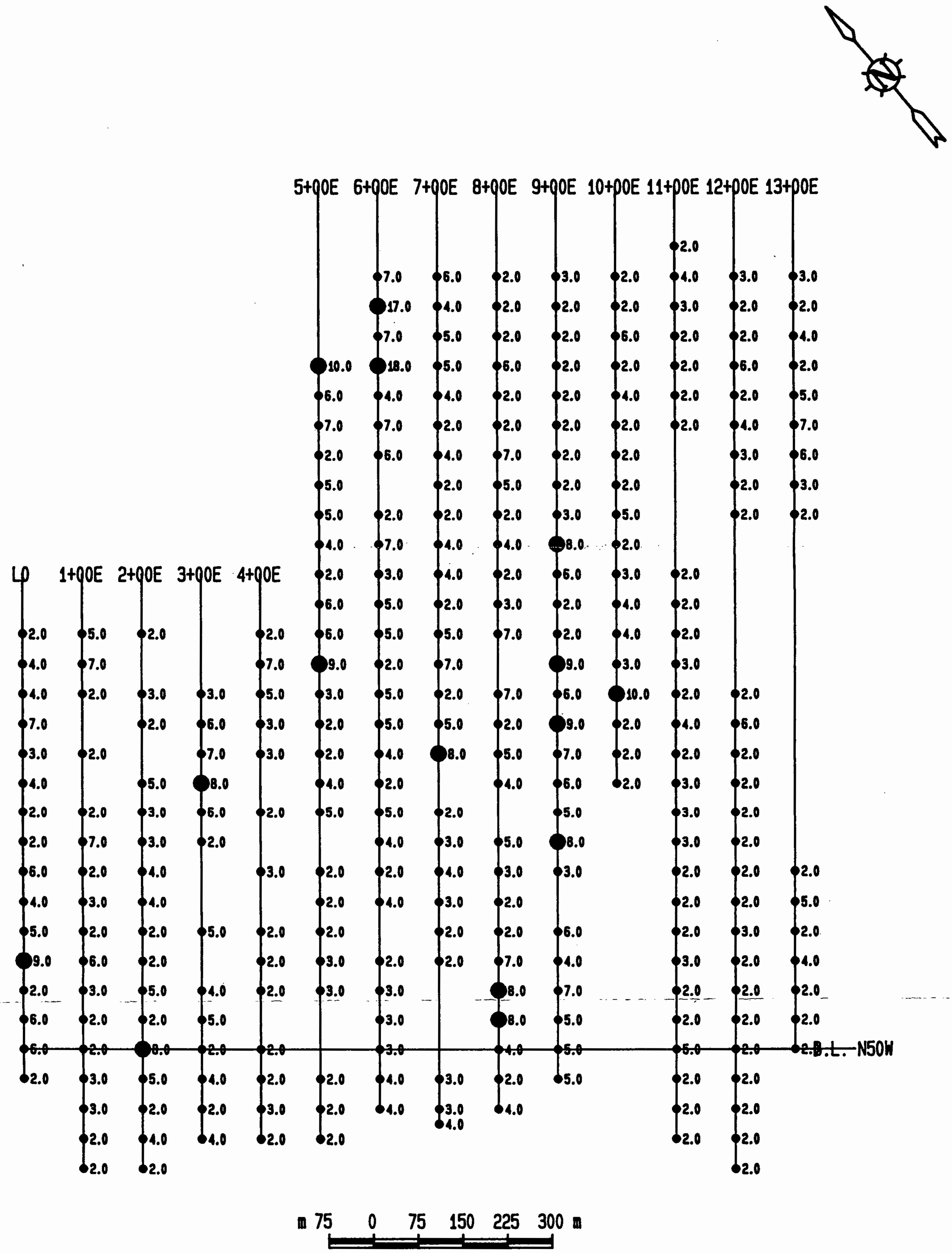
Minimum Population Data point	5.000000
Maximum Population Data point	362.000000
Total Population	295

	Ungrouped Data	Grouped Data
Mean	62.006780	62.019153
Median	N/A	53.183333
Geometric Mean	52.577026	52.394747
Natural LOG Mean	3.962279	3.958806
Standard Deviation	41.811278	41.771869
Variance	1748.183005	1744.889048
Log Variance	0.321425	0.332780
Coefficient of Variation	0.674302	0.673532
Moment 1 about Arithmetic Mean	0.000000	0.000000
Moment 2 about Arithmetic Mean	1748.183005	1744.889048
Moment 3 about Arithmetic Mean	222577.833566	215012.970640
Moment 4 about Arithmetic Mean	53686808.261378	50990314.527442
Moment Coefficient of Skewness	17.566846	16.747580
Moment Coefficient of Kurtosis	3.045100	2.949938



Normal Histogram
HOPE SOIL GEOCHEM - ZINC
Frequency Count - 295 samples
50
40
30
20
10
0
5.000
105.000
205.000
305.000
Zn (ppm)


LOG Normal Histogram
HOPE SOIL GEOCHEM - ZINC
Frequency Count - 295 samples
30
20
10
0
1.000
10.000
100.000
1000.000
Zn (ppm)



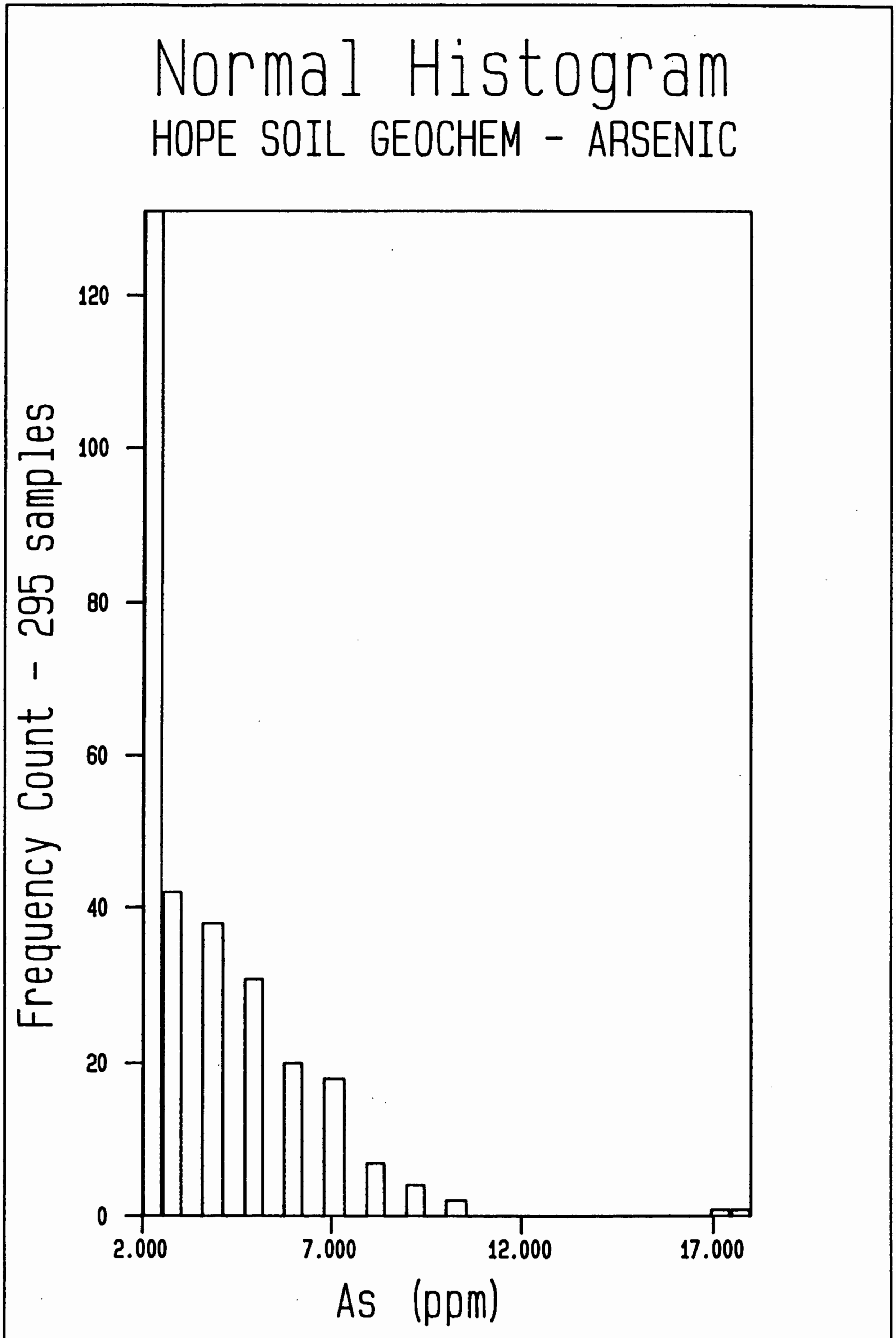
EW Grove Consultants 4581 Boulderwood Drive Victoria, B.C. V8Y 3A5	AQUISTAR VENTURES INC. - HOPE 2 & 3 CLAIMS SONORA ISLAND, B.C.; NANAIMO M.D. 1996 GEOCHEMICAL SOIL SURVEY - ARSENIC (PPM) ANOMALOUS ARSENIC VALUES => 8 PPM (LARGE DOT)
DATE: 06/08/96 TIME: 14:43:45	
SCALE (HOR) 1:7500 SCALE (VERT) 1:7500	

Software by GEMCOM Services Inc.

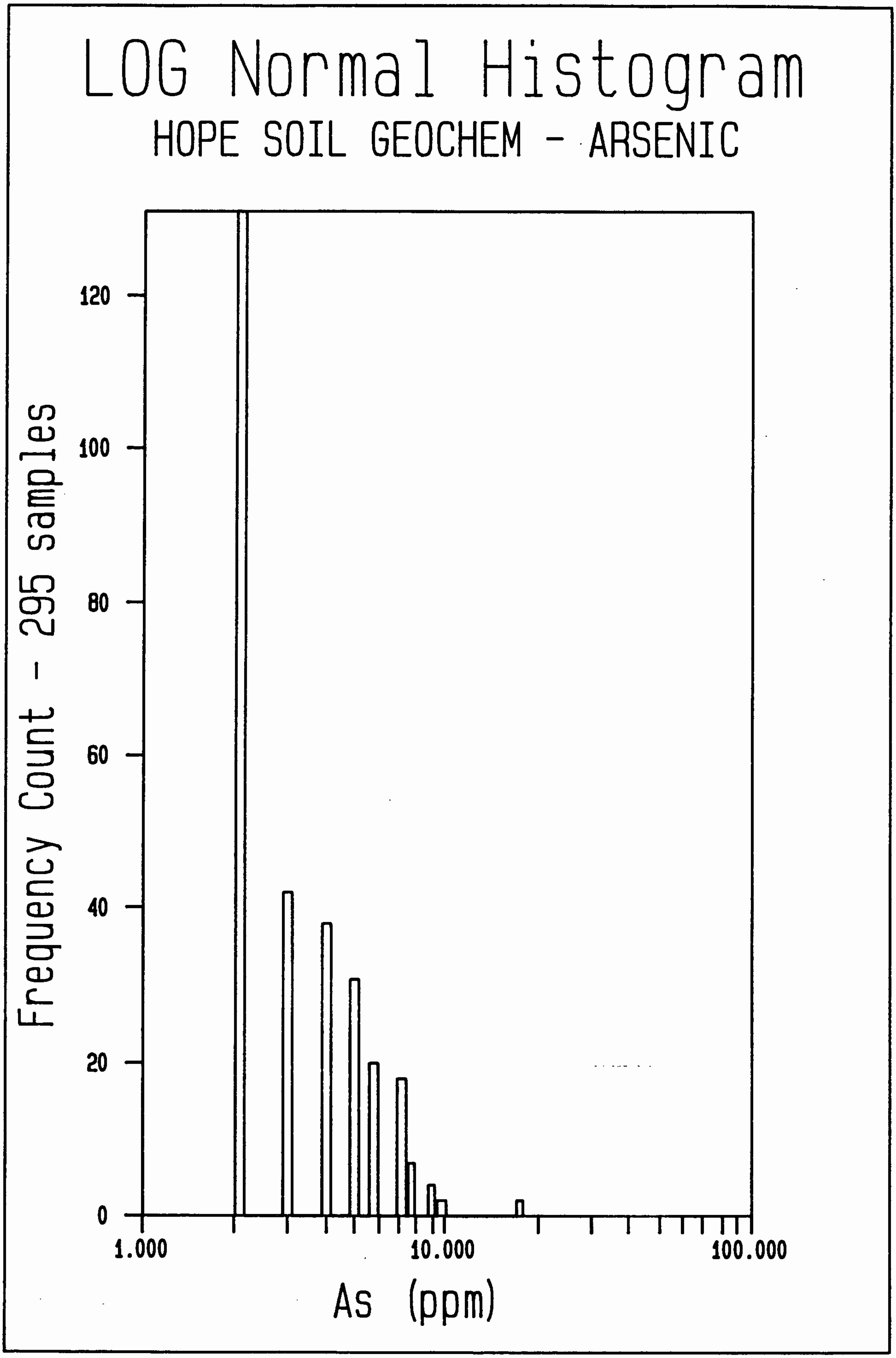
Extraction File : C:\PXDBAQ\EXTRACT\SASPPM.MEX
Data Description : HOPE SOIL GEOCHEM - ARSENIC

Minimum Cutoff Value	2.000000
Maximum Cutoff Value	18.000100
Number of Samples <=0	0
Total Number of Samples Used	295
Minimum Histogram Value	2.000000
Maximum Histogram Value	18.000100
Number of Class	30
Class Interval	0.533300
Minimum Population Data point	2.000000
Maximum Population Data point	18.000000
Total Population	295

	Ungrouped Data	Grouped Data
Mean	3.688136	3.765313
Median	N/A	2.742811
Geometric Mean	3.210012	3.345680
Natural LOG Mean	1.166275	1.207670
Standard Deviation	2.224142	2.165801
Variance	4.946808	4.690693
Log Variance	0.252990	0.207247
Coefficient of Variation	0.603053	0.575198
Moment 1 about Arithmetic Mean	0.000000	0.000000
Moment 2 about Arithmetic Mean	4.946808	4.690693
Moment 3 about Arithmetic Mean	24.685651	24.965648
Moment 4 about Arithmetic Mean	291.654034	283.463149
Moment Coefficient of Skewness	11.918396	12.883167
Moment Coefficient of Kurtosis	2.243659	2.457465



Normal Histogram
HOPE SOIL GEOCHEM - ARSENIC
Frequency Count - 295 samples
120
100
80
60
40
20
0
2.000
7.000
12.000
17.000
As (ppm)



LOG Normal Histogram
HOPE SOIL GEOCHEM - ARSENIC
Frequency Count - 295 samples
120
100
80
60
40
20
0
1.000
10.000
100.000
As (ppm)

SECTION V

ADDENDUM

GEOPHYSICAL REPORT

ON

INDUCED POLARIZATION, RESISTIVITY, VLF-EM AND MAGNETIC SURVEYS

OVER THE

HOPE CLAIM GROUP

SONORA POINT, SONORA ISLAND

NANAIMO MINING DIVISION, BRITISH COLUMBIA

SURVEY PERIOD	:	February, 1996
WRITTEN FOR	:	AQUISTAR VENTURES INC. Vancouver, British Columbia
WRITTEN BY	:	David G. Mark, P.Geo., Geophysicist GEOTRONICS SURVEYS LTD. Vancouver, British Columbia
DATED	:	April 8, 1996

GEOTRONICS SURVEYS LTD.
Engineering & Mining Geophysicists
VANCOUVER, CANADA

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LIST OF ILLUSTRATIONS

SUMMARY

Induced polarization, resistivity, VLF-EM and magnetic surveys were carried out over the west central part of the Hope Claim Group belonging to Aquistar Ventures Inc.

The magnetic and VLF-EM surveys were carried out using a Scintrex/EDA Omni-Plus proton precession magnetometer/VLF-EM unit with readings taken every 12.5 m on 9 lines for a total survey length of 6,437.5 m. The results for each survey were plotted and contoured on two base maps, respectively, as well as profiled on two additional base maps, respectively. In addition, the magnetic results and the VLF-EM Fraser-filtered results within the IP/resistivity survey area were each profiled and plotted above the IP/resistivity pseudosections.

The IP and resistivity surveys were carried out using a BRGM Elrec IP-6 or an Androtex TDR-6 with each instrument being a 6-channel receiver operating in the time-domain mode. The array used was dipole-dipole, read to six separations, with a dipole length and reading interval of 15 m. Four lines were carried out within the magnetic/VLF-EM survey area for a total survey length of 2,300 m. The results were plotted both in pseudosection and plan, and contoured.

The purpose of the work was: (1) to determine the geophysical response to known mineralization on the property, especially the gold/copper-sulphide mineralized shear zone trending northeasterly at about 5+00 E across the grid, (2) to determine the extent of the mineralization, and (3) to locate other mineralized zones.

CONCLUSIONS

1. The IP/resistivity survey revealed several anomalies within the grid area. The IP anomalies that are of exploration interest, all of which are likely reflecting sulphides, have been labeled by the upper case letters A to D. There were also some strong responses from the VLF-EM survey and these have been labeled by the lower case letters 'a' to 'c'.

2. IP anomaly A occurs within the main shear zone and correlates with a resistivity low, a magnetic low, and VLF-EM conductor 'a'. Also adit #3 containing sulphide mineralization occurs along IP anomaly A. Therefore, the interpretation of this geophysical signature is a mineralized shear zone. The minimum strike length is 300 meters with it being open to the southeast and to the northwest. Anomaly B', or possibly B, could be the northwest extension of A which would extend the minimum strike length to 700 meters. The dip of the causative source appears to be northeasterly.

3. IP anomalies B and B' occur at the northwest edge of the grid area. Both correlate with resistivity highs suggesting the causative sources are sulphide zones within intrusives, or possibly wide quartz veins.

4. IP anomaly C correlates with a strong resistivity low and a magnetic high. VLF-EM conductor 'b' occurs to its immediate southwest. The causative source, like A, is likely a mineralized shear zone, but one that may contain magnetite.

5. IP anomaly D correlates with a resistivity high and a magnetic low. It likely reflects sulphides possibly within a magmatic phase of the diorite intrusive.

6. VLF-EM conductor 'c' is a relatively strong conductor that correlates with a weak IP anomalous response and a relatively strong resistivity low. The causative source is likely a shear zone that may be mineralized with sulphides lower in amount than that of anomaly A.

7. The magnetic field over the grid area occurs as a series of lineal-shaped highs and lows trending northwesterly which is perpendicular to the survey line direction. The most prominent feature is a strong resistivity low that is reflecting the main shear zone.

RECOMMENDATIONS

All four geophysical surveys proved very useful in locating probable mineralization as well as extending known mineral zones. It is therefore recommended that the surveys be extended over the rest of the property. This is assuming that other portions of the exploration programme have encouraging results.

ADDENDUM
GEOPHYSICAL REPORT
ON
INDUCED POLARIZATION, RESISTIVITY,
VLF-EM AND MAGNETIC SURVEYS
OVER THE
HOPE CLAIM GROUP
SONORA POINT, SONORA ISLAND
NANAIMO MINING DIVISION, BRITISH COLUMBIA

INTRODUCTION AND GENERAL REMARKS

This report discusses the instrumentation, theory, field procedure and results of induced polarization ("IP"), resistivity, VLF-EM, and magnetic surveys carried out over the west central part of the Hope 3 claim which is part of the Hope Claim Group.

All geophysics were carried out during February, 1996, under the direction of the writer. For the IP/resistivity surveys, two geophysical technicians as well as three helpers comprised the crew of five. The magnetic/VLF-EM surveys were carried out by Andrew Molnar, an employee of Ashworth Exploration Services using a combination magnetic/VLF-EM unit. The exploration program was under the field supervision of Fayz Yacoub, P. Geo., of Ashworth Explorations.

The main purpose of the geophysics was: (1) to determine its response over known mineralized zones, especially a 100-to 200-meter shear zone mineralized with pyrite, pyrrhotite, and chalcopyrite containing gold mineralization, some within quartz veins; (2) to determine the strike length of the mineralization; and (3) to locate other mineralized zones. It was thought that the IP(chargeability) survey was the most likely to respond to the mineralized zones. It was also known that alteration was associated with the mineralization and therefore it was expected that these would respond as resistivity lows.

It was also anticipated that the resistivity, magnetic, and VLF-EM surveys would assist in the mapping of the bedrock geology. For the resistivity survey, it was expected that faults and shear zones may show up as lineal-shaped resistivity lows; intrusive dykes as lineal-shaped resistivity highs, and siliceous zones as resistivity highs. The magnetic survey was expected to map lithology as well as possibly structure. The VLF-EM survey was expected to map geological structure as conductors.

MAGNETOMETER AND VLF-EM SURVEYS

(a) Instrumentation

Both the magnetic survey and the VLF-EM survey were carried out with a Scintrex/EDA Omni-Plus unit which consists of a proton precession magnetometer and a VLF-EM receiver. It is a memory system capable of storing up to 1,300 readings. This unit was used with a Scintrex/EDA Omni base station unit for the purpose of monitoring the diurnal variation of the magnetic field. The magnetometer part reads directly in gammas the Earth's total magnetic field to an accuracy of ±0.1 gamma, over a range of 18,000 - 110,000 gammas. The VLF-EM part can read up to three transmitters at the same time in the 15 to 30 kHz range. For each transmitter station, the readings consist of (a) the in-phase, (b) the quadrature, (c) the tilt angle, and (d) the field strength. Also the instrument calculates both a 4-point and a 5-point Fraser- filter value automatically as the survey progresses. Operating temperature range is -40° to +55° C.

(b) Theory

(i) Magnetics

Only two commonly occurring minerals are strongly magnetic -- magnetite and pyrrhotite. Magnetic surveys are therefore used to detect the presence of these minerals in varying concentrations. Therefore, if magnetite or pyrrhotite occurs with economic mineralization, magnetic surveys are used to locate this type of mineralization. Magnetic surveys are also useful as a reconnaissance tool for mapping geologic lithology and structure since different rock types have different background amounts of magnetite and/or pyrrhotite.

(ii) Electromagnetics

In all electromagnetic prospecting, a transmitter produces an alternating magnetic field (primary) by a strong alternating current usually through a coil of wire. If a conductive mass such as a sulphide body is within this magnetic field, a secondary alternating current is induced within it which in turn induces a secondary magnetic field that distorts the primary magnetic field. It is this distortion that the EM receiver measures. The VLF-EM uses a frequency range from 13 to 30 kHz, whereas most EM instruments use frequencies ranging from a few hundred to a few thousand Hz. Because of its relatively high frequency, the VLF-EM can pick up bodies of a much lower conductivity and therefore is more susceptible to clay beds, electrolyte-filled fault or shear zones and porous horizons, graphite, carbonaceous sediments, lithological contacts as well as sulphide bodies of too low a conductivity for other EM methods to pick up. Consequently, the VLF-EM has additional uses in mapping structure and in picking up sulphide bodies of too low a conductivity for conventional EM methods and too small for induced polarization. (In places it can be used instead of IP). However, its susceptibility to lower conductive bodies results in a number of anomalies, many of them difficult to explain and, thus, VLF-EM preferably should not be interpreted without a good geological knowledge of the property and/or other geophysical and geochemical surveys.

(c) Survey Procedure

The readings of the earth's total magnetic field as well as the electromagnetic field from 3 transmitter stations, Seattle (Jim Creek) at 24.8 kHz, Annapolis at 23.4 kHz, and Cutler at 24.0 kHz, were taken at 12.5 m stations along 9 survey lines 100 m apart, and running in a N40°E-S40°W (040°E-220°E) direction. The amount surveyed totaled 6,437.5 m.

The diurnal variation of the magnetic field was monitored in the field by a base station which was set up on the property. Each day at the beginning of the surveying, the surveying unit was initialized with the base station unit. The data was then dumped in the evening with the surveying unit interconnected with the base station unit thus enabling the magnetic data to be automatically corrected for diurnal variation.

(d) Compilation of Data

The magnetic data were edited, and then plotted and contoured onto a plan map with a scale of 1:5000 and numbered GP-1. The contour interval chosen was 100 gammas (nT). The data were also profiled onto a plan map of the same scale, numbered GP-2, but with a vertical scale of 1 cm = 400 gammas (nT) using a base of 54,000 gammas.

The 4-point Fraser-filtered Seattle VLF-EM data were also edited, and then plotted and contoured onto a plan map at a scale of 1:5000 and numbered GP-3. The contour interval chosen was 5°. The same tilt-angle data as well as the quadrature data were profiled onto a plan map of the same scale numbered GP-4, but with a vertical scale of 1 cm = 15°.

All of the above data reduction was carried out using software produced by Geosoft of Toronto, Ontario.

INDUCED POLARIZATION AND RESISTIVITY SURVEYS

(a) Instrumentation

The transmitter used for the first part of the induced polarization/resistivity survey was a Model IPT-1 manufactured by Phoenix Geophysics Ltd. of Markham, Ontario, powered by a 2.5 kW motor generator, Model MG-2, also manufactured by Phoenix. The receiver used was a six-channel BRGM, model Elrec 6. The motor generator broke down and thus for the second part of the survey, the transmitter used was a BRGM VIP 3000, and the receiver, an Androtex TDR-6. Both receivers are state-of-the-art equipment, with software-controlled functions, programmable through a keyboard located on the front of the instrument. They can measure up to 10 chargeability windows and store up to 2,500 measurements within the internal memory.

(b) Theory

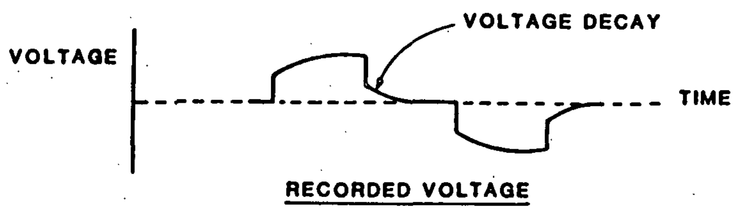
When a voltage is applied to the ground, electrical current flows, mainly in the electrolyte-filled capillaries within the rock. If the capillaries also contain certain mineral particles that transport current by electrons (mostly sulphides, some oxides and graphite), then the ionic charges build up at the particle-electrolyte interface, positive ones where the current enters the particle and negative ones where it leaves. This accumulation of charge creates a voltage that tends to oppose the current flow across the interface. When the current is switched off, the created voltage slowly decreases as the accumulated ions diffuse back into the electrolyte. This type of induced polarization phenomena is known as electrode polarization.

A similar effect occurs if clay particles are present in the conducting medium. Charged clay particles attract oppositely-charged ions from the surrounding electrolyte; when the current stops, the ions slowly diffuse back to their equilibrium state. This process is known as membrane polarization and gives rise to induced polarization effects even in the absence of metallic-type conductors.

Most IP surveys are carried out by taking measurements in the “time-domain” or the “frequency-domain”.

Time-domain measurements involve sampling the waveform at intervals after the current is switched off, to derive a dimensionless parameter, the chargeability “M”, which is a measure of the strength of the induced polarization effect. Measurements in the frequency domain are based on the fact that the resistance produced at the electrolyte-charged particle interface decreases with increasing frequency. The difference between apparent resistivity readings at a high and low frequency is expressed as the percentage frequency effect, or "PFE".

The quantity, apparent resistivity, ρ_a, computed from electrical survey results is only the true earth resistivity in a homogenous sub-surface. When vertical (and lateral) variations in electrical properties occur, as they almost always will , the apparent resistivity will be influenced by the various layers, depending on their depth relative to the electrode spacing. A single reading, therefore, cannot be attributed to a particular depth.



The ability of the ground to transmit electricity is, in the absence of metallic-type conductors, almost completely dependent on the volume, nature and content of the pore space. Empirical relationships can be derived linking the formation resistivity to the pore water resistivity, as a function of porosity. Such a formula is Archie's Law, which states (assuming complete saturation) in clean formations:

$$\frac{R_o}{R_w} = O^{-2}$$

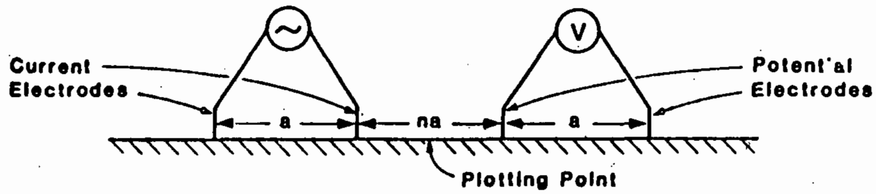
Where: R_o is formation resistivity
R_w is pore water resistivity
O is porosity

(c) Survey Procedure

The IP and resistivity measurements were taken in the time-domain mode using an 8-second square wave charge cycle (2-seconds positive charge, 2-seconds off, 2-seconds negative charge, 2-seconds off). The delay time used after the charge shuts off was 240 milliseconds and the integration time used was 1,600 milliseconds divided into 10 windows.

The array chosen was the dipole-dipole, shown as follows:

DIPOLE - DIPOLE ARRAY



Stainless steel stakes were used for current electrodes as well as for the potential electrodes.

The reading interval and electrode separation chosen was 15 meters and was carried out on the following grids.

There was considerable problems with the precipitation of wet snow which would often short out connections resulting in erroneous readings. Thus many readings had to be retaken.

(d) Compilation of Data

All the data were reduced by a computer software program developed by Geosoft Inc. of Toronto, Ontario. Parts of this program have been modified by Geotronics Surveys Inc. for its own applications. The computerized data reduction included the resistivity calculations, pseudosection plotting, survey plan plotting and contouring.

The chargeability (IP) values are read directly from the instrument and no data processing is therefore required prior to plotting. The resistivity values are derived from current and voltage readings taken in the field. These values are combined with the geometrical factor appropriate for the dipole-dipole array to compute the apparent resistivities.

All the data has been plotted in pseudosection form at a scale of 1:1250. One map has been plotted for each line are numbered GP-9 to GP-12, respectively. The pseudosection is formed by each value being plotted at a point formed from the intersection of a line drawn from the mid-point of each of the two dipoles. The result of this method of plotting is that the farther the dipoles are separated, the deeper the reading is plotted. The resistivity pseudosection is plotted on the upper part of the map for each of the lines, and the chargeability pseudosection is plotted on the lower part.

All pseudosections were contoured at an interval of 5 milliseconds for the chargeability results, and at an interval of logarithmic to the base 10 for the resistivity results.

Also, plan maps were prepared for level 1 (n=1) and level 4 (n=4) each for IP and resistivity, each at a scale of 1:5000. The data were plotted and contoured at the same contour interval as that of the pseudosections. The four plans were numbered GP-5 to GP-8, respectively.

DISCUSSION OF RESULTS

(a) Magnetics

The magnetic field over the survey grid varies from a low of 55,737 gammas at (1+00E, 4+87.5N), to a high of 56,832 gammas at (4+00E, 0+12.5S), but the background appears to be about 56,100 gammas.

The most noticeable aspect of the data is its northwesterly trend which parallels the major structural trend across the property. This is easily seen on both the contour map, GP-1, and the profile map, GP-2. Contributing to this trend is a significant low that trends in this direction at about 4+00N to 5+00N. The low correlates directly with the main shear zone (which contains mineralization) and thus is probably a reflection of a lack of magnetite within the shear indicating it was altered by the shear action. The correlation is especially strong with the southwest half of the shear which therefore probably means that this half is more intensely sheared.

Southwest of the low, there is a marked increase in the magnetic field which is undoubtedly reflecting the diorite intrusive. The magnetic field across the diorite has a definite northwest trend, that is, it occurs as a series of highs and lows, many of them lineal-shaped and trending across the entire grid area. The series of highs and lows are probably reflecting magmatic phases within the diorite, or possibly, but less likely, the highs may be reflecting basalt/diabase dykes. However, the 'sharper' lineal highs such as occurs on line 7+00E at 0+75N and on line 4+00E at 0+12.5S (see the profile map) certainly are more likely reflecting basalt/diabase dykes.

The magnetic field over the leucogranite northwest of the shear zone is lower in amplitude than that over the diorite. It also occurs as a series of highs and lows trending northwesterly across the grid area and therefore also is probably reflecting different phases within the intrusive.

There is no direct correlation with any known mineralization on the property other than the magnetic low reflecting the shear zone that is mineralized as mentioned above. Correlations with the other surveys are mentioned below.

(b) VLF-EM

Several VLF-EM conductors have been identified as occurring throughout grid area. Some are strong but short in length, occurring on only one line, while others are weak but having definite continuity across several lines. The probable causative source in most cases is geologic structure such as faults, shears or lithologic contacts.

For ease of discussion, three conductors, because of their strength and/or length, have been labeled by the lower case letters 'a' to 'c'.

Conductor 'a' correlates with the southwestern part of the main shear zone and thus correlates with the associated magnetic low as well. Therefore, as mentioned above, the southwestern part is probably the most intensely sheared.

In addition, on line 4+00E, adit #3 occurs directly on conductor 'a'. This would suggest that the mineralization that the adit was put in to explore may extend along the total length of conductor 'a' which potentially could be along the total width of the grid, a distance of 700 meters. However, the probability is that the conductor is reflecting the shear zone itself rather than the mineralization with which it is associated.

Also conductor 'a' correlates directly with a strong resistivity low and IP high A. As discussed below, the resistivity low is probably reflecting the shear zone and the IP high is undoubtedly reflecting sulphide mineralization.

The conductor shown at about 4+00N on line 0+00 also occurs along the southwestern edge of the shear zone and thus it could be an extension of conductor 'a'.

Conductor 'b' is relatively strong, having a minimum strike length of 300 m, being open to the southeast. It occurs within the diorite and correlates with a lineal-shaped magnetic high and a resistivity low. The causative source is probably a shear zone as well, or possibly a fault. There is no known mineralization along its strike length but it is associated with an IP anomaly on line 4+00E that is likely caused by sulphide mineralization. Line 4+00E is the only line along which IP was done that crosses conductor 'b'.

Conductor 'c' is a strong conductor occurring on only one line, 6+00E, at 4+10N. However, it does correlate with a strong resistivity low and a weak IP high. Conductor 'c' and the correlating resistivity low are probably due to a shear zone whereas the IP anomaly is probably caused by sulphides. The IP anomaly continues onto line 7+00S whereas the VLF-EM conductor and the resistivity low do not. The minimum strike length of the IP anomaly is therefore 100 meters with it being open to both the northwest and the southeast.

(c) IP and Resistivity

There are two very prominent and two less prominant IP anomalies and these have been labeled by the upper case letters A and D for ease of discussion.

IP anomaly A consists of an IP high correlating with a resistivity low and occurs along the main shear zone. As mentioned above, it correlates with VLF-EM conductor 'a' as well as a magnetic low. On line 4+00E, adit #3 with its associated sulphide mineralization occurs on anomaly A. The minimum strike length is 300 meters with it being open to the southeast. It may also extend to line 0+00E to the northwest connecting with anomaly B and thus the minimum strike length would become 700 meters. The geophysics suggest that the causative source probably dips to the northeast.

The causative source of IP anomaly A is undoubtedly sulphides especially considering the correlation with adit #3. The cause of the resistivity low as well as the VLF-EM conductor and the magnetic low is, in all likelihood, the shear zone.

IP anomalies B and B' are both one-line anomalies occurring on line 0+00. The pseudosection suggests that their causative sources are connected which could well be the case. However, an alternative interpretive model is two or three separate causative sources. Two would subcrop at 4+55N and 6+05N, respectively, dipping to the northeast. Possibly, a third would occur at depth between the other two.

It is quite possible that anomalies B and B' are the northwestern extension(s) of anomaly A. This is especially possible for anomaly B' which occurs along the southwest part of the shear zone and correlates with a magnetic low as does anomaly A. However, anomalies B and B' correlate with resistivity highs and no VLF-EM conductors, whereas anomaly A correlates with a resistivity low and a VLF-EM conductor. Furthermore, IP anomaly B correlates with a magnetic high. Therefore, it would appear that since the geophysical signatures of the IP anomalies are different, then the causative sources are different.

The causative sources of B and B', considering the resistivity high correlation of each, may be sulphide-mineralized zones that are not sheared (anomaly B occurs just outside the main shear zone).

IP anomaly C occurs at the southwest end of line 4+00E very close to the baseline. It consists of a weaker IP high correlating with a very strong resistivity low and a magnetic high. VLF-EM conductor 'b' occurs to the immediate southwest. The causative source appears to be sulphide mineralization occurring within a shear zone. The magnetic high is somewhat unexpected since one would expect a magnetic low to occur with such a strong resistivity low. Therefore, possibly the causative source is magnetite and/or pyrrhotite occurring with other sulphides such as pyrite and chalcopyrite.

IP anomaly D is located on line 0+00E at about 3+35N. It correlates with a resistivity high and a minor magnetic low. There is no VLF-EM correlation. It probably reflects sulphides occurring within a phase of the diorite intrusive.

A number of small IP anomalies occur within the southwestern part of line 0+00E. Most occur at depth and correlate with resistivity highs. The exploration interest of these IP anomalies would depend on the success of exploration over the rest of the property.

Many of the resistivity pseudosections show lineal-shaped resistivity lows. These are indicative of shear zones or faults and thus have been labeled by the word "shear?".

Yours sincerely,

GEOTRONICS SURVEYS LTD.

David G. Mark, P.Geo.,
Geophysicist

April 8, 1996

REFERENCES

Yacoub, Fayz, P.Geo., Personal Communication, February to April, 1996.

Van Nostrand, Tim, geologist, Handwritten Geological Report on the Hope Claim Group, Sonora Island, Nanaimo M.D., B.C., from field work carried out from February 4 to 14, 1996, Ashworth Explorations Ltd.

GEOPHYSICIST'S CERTIFICATE

I, DAVID G. MARK, of the City of Vancouver, in the Province of British Columbia, do hereby certify that:

I am registered as a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of the Province of British Columbia.

I am a Consulting Geophysicist of Geotronics Surveys Ltd., with offices at #405 - 535 Howe Street, Vancouver, British Columbia.

I further certify that:

1. I am a graduate of the University of British Columbia (1968) and hold a B.Sc. degree in Geophysics.
2. I have been practicing my profession for the past 28 years, and have been active in the mining industry for the past 31 years.
3. This report is compiled from data obtained from IP, resistivity, magnetic, and VLF-EM surveys carried out over a portion of the Hope 3 claim during February, 1996. All geophysical surveys were carried out under my supervision with the general exploration program being under the direction of Fayz Yacoub, P.Geo.
4. I do not hold any interest in Aquistar Ventures Inc., nor in the property discussed in this report, nor do I expect to receive any interest as a result of writing this report.

David G. Mark, P.Geo.,
Geophysicist

April 8, 1996

LEGEND

Medium grained granitic dyke

PALEOZOIC AND/OR TRIASSIC

- Greenstone - amphibolite
- Chlorite - epidote rich schist - well banded, commonly mylonitic. Includes quartzite and carbonate layers

PALEOZOIC OR OLDER

- Weak to strongly foliated diorite, gradational locally to amphibolite
- Weak to strongly foliated biotite, leucogranite
- Basalt / diabase

SYMBOLS

• P1	Petrographic sample locality, number
▲	Rock sample locality, number, Au ppb, Cu ppm
	Foliation
	Banding / mylonitic fabric
	Mineral lineation
	S-fold
	Z-fold
	Shear zone
⊗	Adit
	Quartz vein
	Shear sense
	Geological contact, approximate
	Flagged grid line, 50m spacing
	Old logging road
500	Topographic contour (interval 500 feet)
	Creek
	Property boundary
□	Legal corner post

ABBREVIATION

py	pyrite
cpy	chalcopyrite
pyrr	pyrrhotite
hem	hematite alteration
lim	limonite alteration
Si	silicification
mu	muscovite
q	quartz float

24490

0 100 200 300 400 500metres

NTS 92K/6W

FIGURE 5

AQUISTAR VENTURES INC.

HOPE 2 AND 3 CLAIMS

SONORA ISLAND, VANCOUVER, NANAIMO M.D.

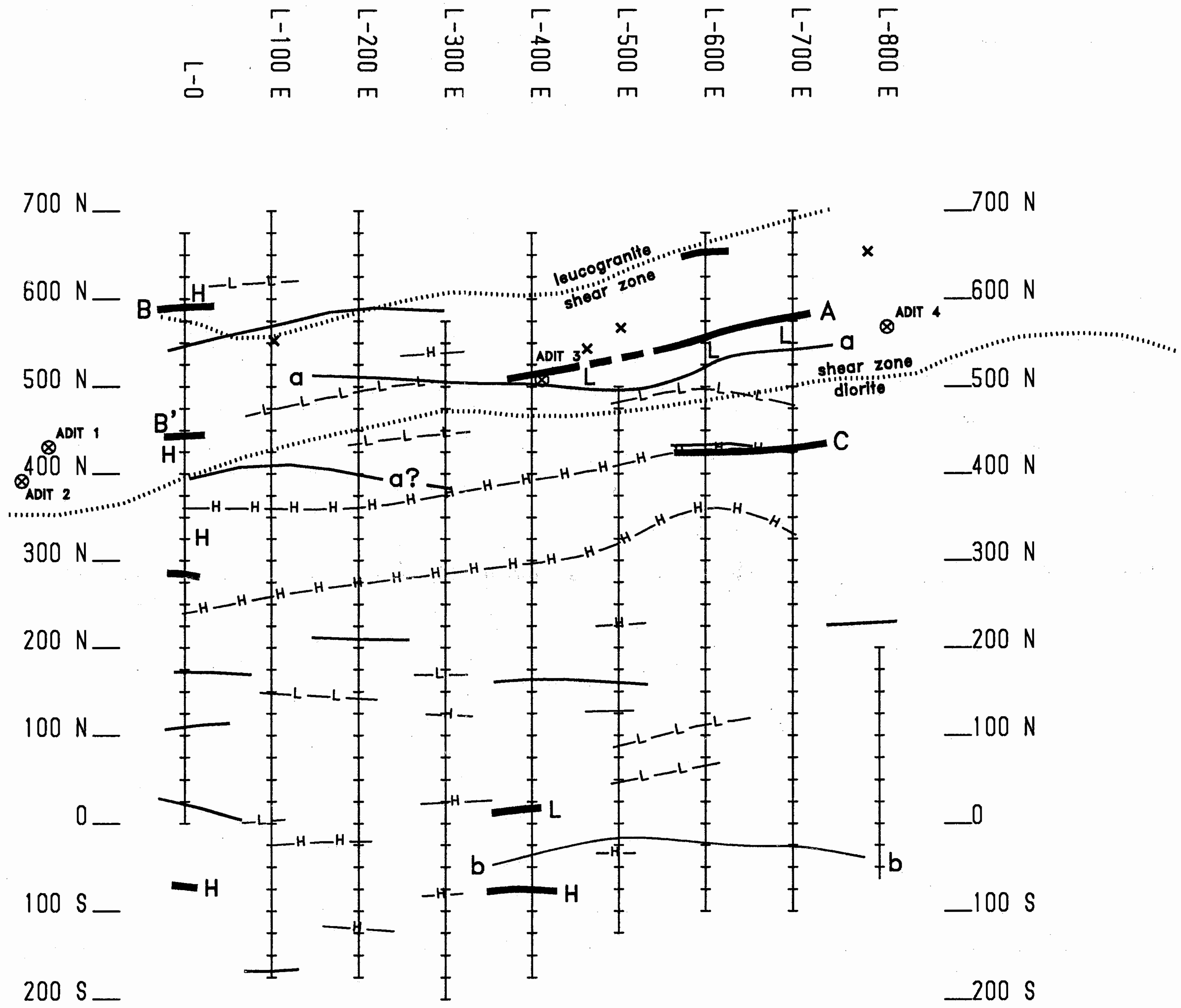
GEOLOGY AND ROCK GEOCHEMISTRY MAP

Project No:		By:	T. V.
Scale:	1 : 5000	Drawn:	J. S.
Drawing No:		Date:	MARCH 1996.

Ashworth Explorations Limited

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,490



LEGEND

A ~ A	IP high
a ~ a	VLF-EM conductor
-H-H-	Magnetic high
-L-L-	Magnetic low
H	Resistivity high coorelating with IP high
L	Resistivity low coorelating with IP high
×	Sulphide occurance

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AQUISTAR VENTURES INC.

HOPE CLAIM GROUP
Sonora Point, Sonora Island
Nanaimo Mining Division, B.C.

COMPILATION MAP

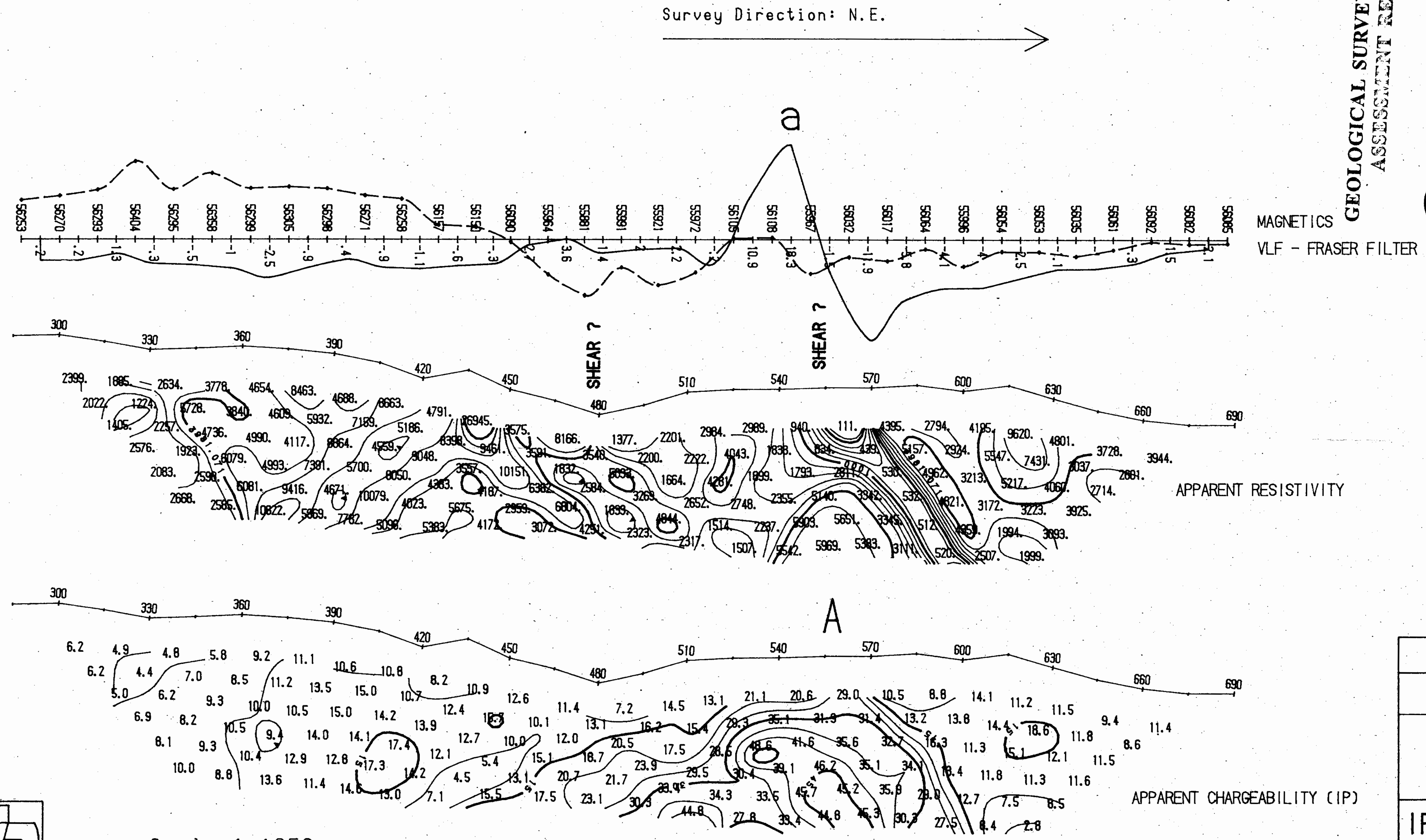
Drawn by:	Job No.	NTS	Date	Map No.
RTM	96-03	92K/6W	FEB. 96	GP-13

Geotronics

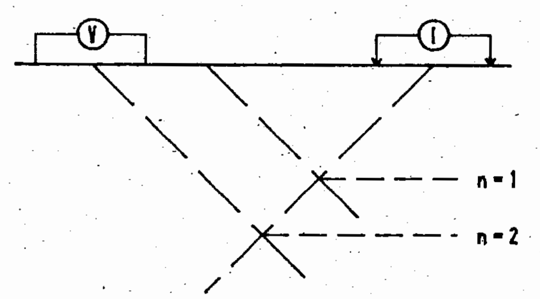
Scale 1:5000
50 0 50 100 150 200 250
(metres)

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,490



Pseudosection Plotting Method



LEGEND

CONTOUR INTERVALS
Resistivity: log base 10 ohm-metres
Chargeability: 5 milliseconds

INSTRUMENTATION
I.P. Receiver: ANDROTEX TDR-6
I.P. Transmitter/Generator: BRGM VIP 3000

SURVEY PARAMETERS
Survey Mode: Time Domain
Array: Double-Dipole
Dipole Length: 15 metres
Dipole separation: n=1 to 6
Delay Time: 80 milliseconds
Integration Time: 1760 milliseconds
Charge Cycle: 8 second square wave

PROFILING
Magnetics
VLF - Fraser Filter

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Geotronics

Scale 1:1250
25 0 25 50 75
(metres)

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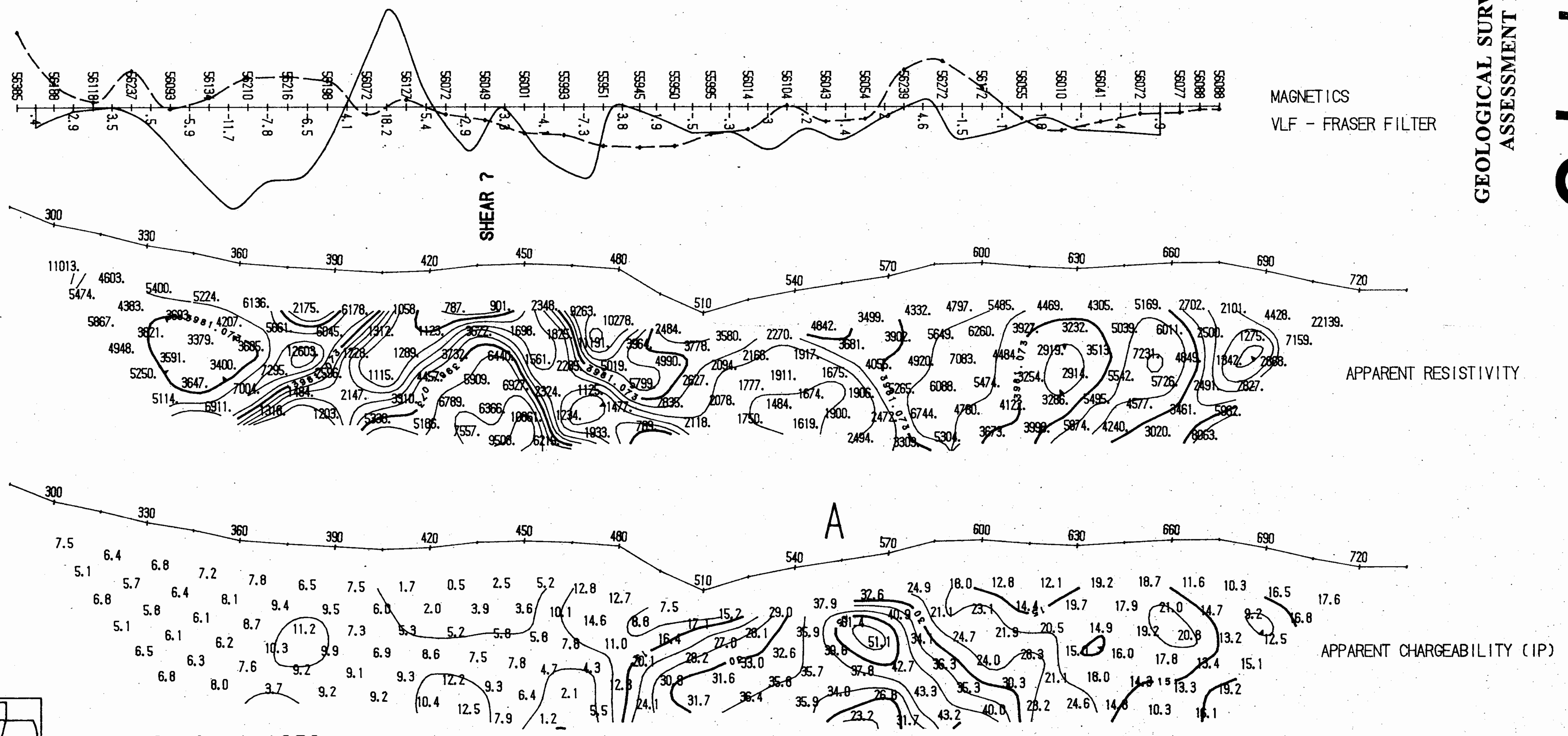
HOPE CLAIM GROUP
Sonora Point, Sonora Island
Nanaimo Mining Division, B.C.

IP & RESISTIVITY PSEUDOSECTIONS LINE 7+00E

Drawn by:	Job No.	NTS	Date	Map No.
RTM	96-03	92K/6W	FEB. 96	GP-12

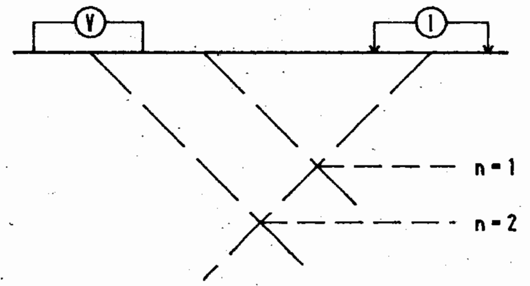
Survey Direction: N.E.



GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,490

Pseudosection Plotting Method



LEGEND

CONTOUR INTERVALS

Resistivity: log base 10 ohm-metres
Chargeability: 5 milliseconds

INSTRUMENTATION

I.P. Receiver: ANDROTEX TDR-6
I.P. Transmitter/Generator: BRGM VIP 3000

SURVEY PARAMETERS

Survey Mode: Time Domain
Array: Double-Dipole
Dipole Length: 15 metres
Dipole separation: n=1 to 6
Delay Time: 80 milliseconds
Integration Time: 1760 milliseconds
Charge Cycle: 8 second square wave

PROFILING

Magnetics
VLF - Fraser Filter

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GEOSCIENTIST

Geotronics

Scale 1:1250

25 0 25 50 75
(metres)

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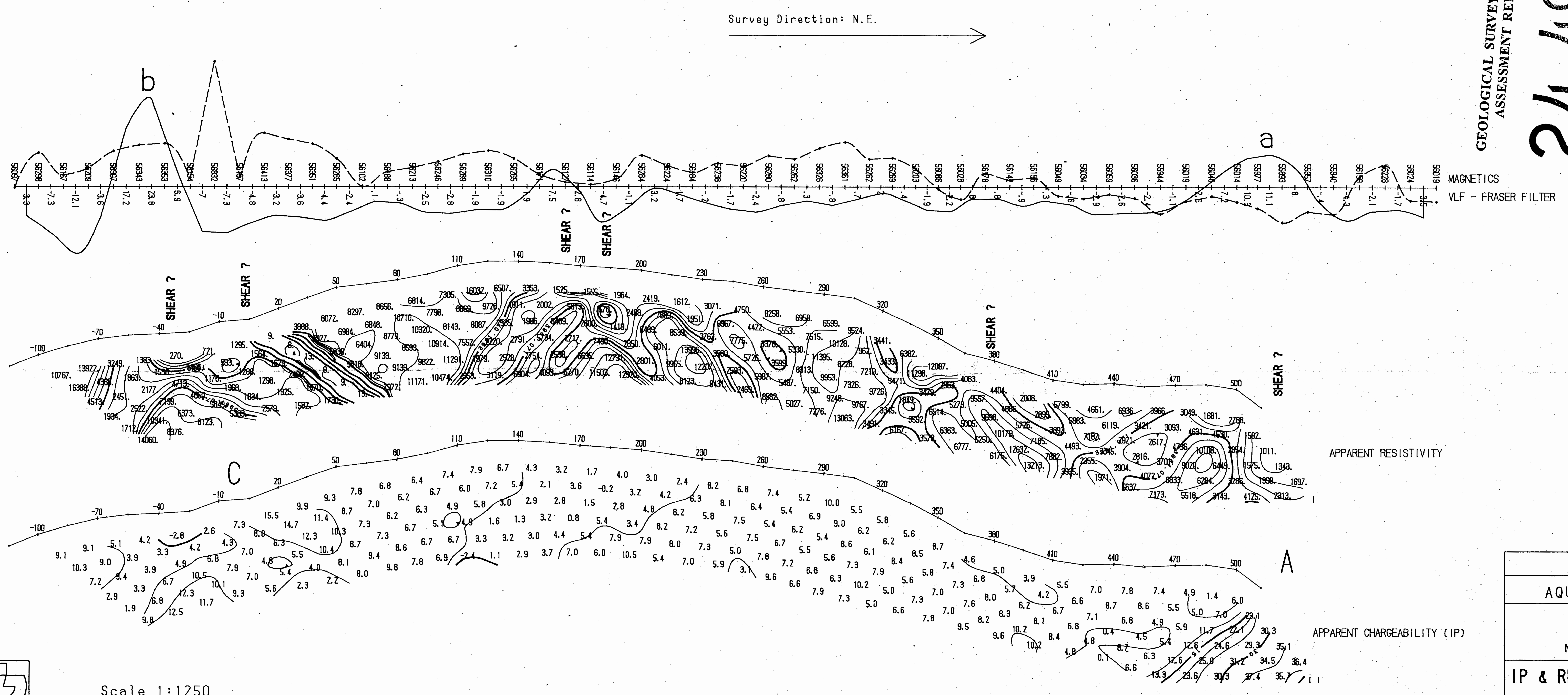
Sonora Point, Sonora Island
Nanaimo Mining Division, B.C.

IP & RESISTIVITY PSEUDOSECTIONS
LINE 6+00E

Drawn by:	Job No.	NTS	Date	Map No.
RTM	96-03	92K/6W	FEB. 96	GP-11

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,490



Pseudosection Plotting Method

n=1
n=2

LEGEND

CONTOUR INTERVALS

Resistivity: log base 10 ohm-metres
Chargeability: 5 milliseconds

INSTRUMENTATION

I.P. Receiver: ANDROTEX TDR-6
I.P. Transmitter/Generator: BRGM VIP 3000

SURVEY PARAMETERS

Survey Mode:	Time Domain
Array:	Double-Dipole
Dipole Length:	15 metres
Dipole separation:	n=1 to 6
Delay Time:	80 milliseconds
Integration Time:	1760 milliseconds
Charge Cycle:	8 second square wave

PROFILING

——— ——— Magnetics
————— VLF - Fraser Filter

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Geotronics

Scale 1:1250
25 0 25 50 75
(metres)

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HOPE 2 & 3 CLAIMS

Sonora Point, Sonora Island
Naniamo Mining Division, B.C.

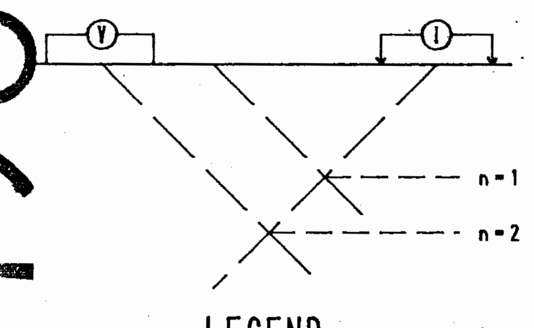
IP & RESISTIVITY PSEUDOSECTIONS LINE 4+00E

Drawn by:	Job No.	NTS	Date	Map No.
RTM	96-03	92K/6W	FEB. 96	GP-10

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,490

Pseudosection Plotting Method



LEGEND

CONTOUR INTERVALS

Resistivity : log base 10 ohm-metres
Chargeability: 5 milliseconds

SURVEY PARAMETERS

Survey Mode:	Time Domain
Array:	Double-Dipole
Dipole Length:	15 metres
Dipole separation:	n=1 to 6
Delay Time:	80 milliseconds
Integration Time:	1760 milliseconds
Charge Cycle:	8 second square wave

PROFILING

— — Magnetics
—— VLF - Fraser Filter

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GEOSCIENTIST

INSTRUMENTATION

I.P.Receiver: BRGM IP-6
I.P.Transmitter/Generator: Phoenix - 2.5 kWatt

INSTRUMENTATION

I.P.Receiver: ANDROTEX TDR-6
I.P.Transmitter/Generator: BRGM VIP 3000

Geotronics

Scale 1:1250

25 0 25 50 75
(metres)

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HOPE CLAIM GROUP

Sonora Point, Sonora Island
Naniamo Mining Division, B.C.

IP & RESISTIVITY PSEUDOSECTIONS
LINE 0+00

Drawn by:	Job No.	NTS	Date	Map No.
RTM	96-03	92K/6W	FEB. 96	GP-9

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

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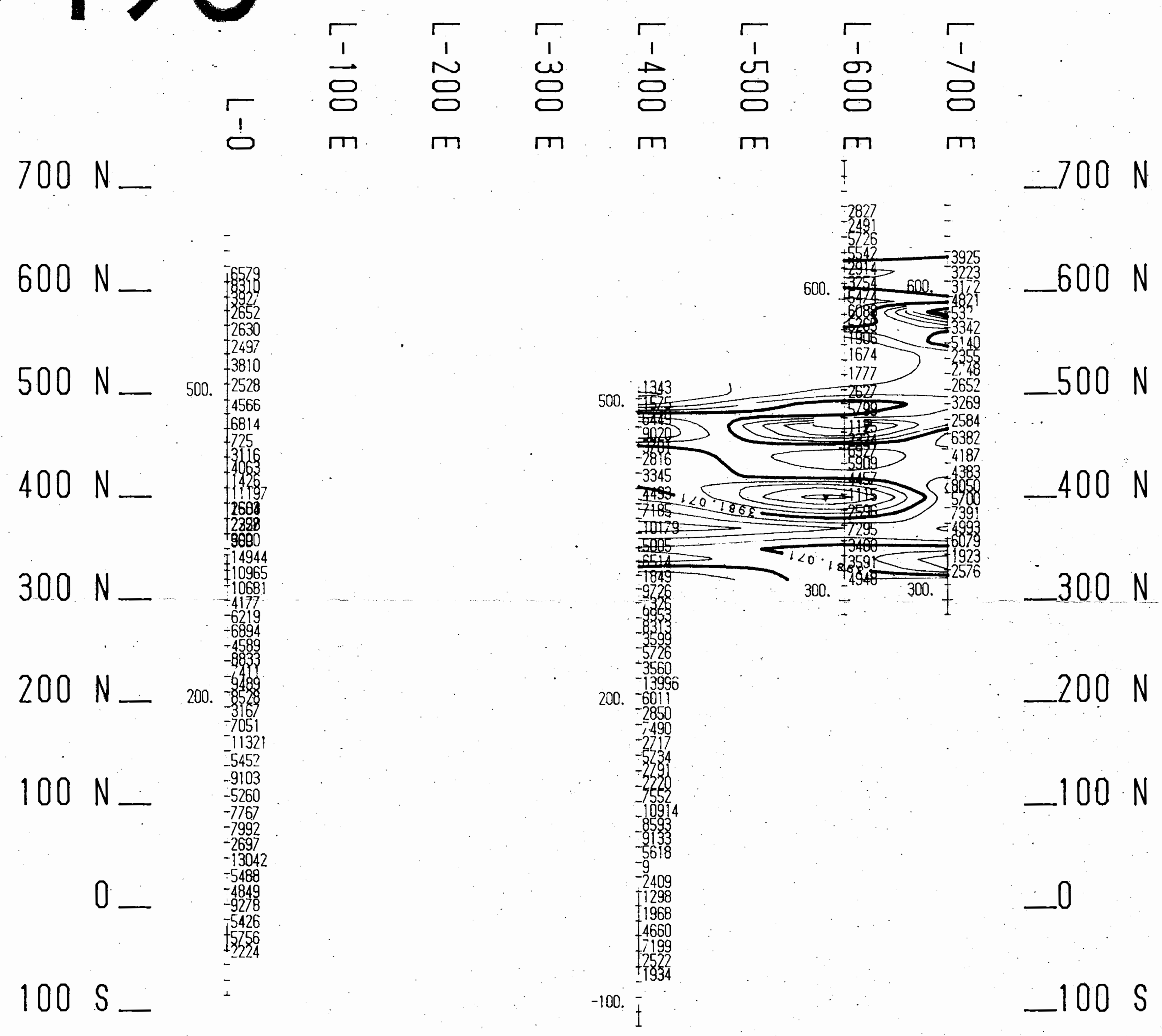

Declination: 22.5

LEGEND

CONTOUR INTERVALS:
Resistivity : log base 10 ohm-metres
Chargeability: 5 milliseconds

INSTRUMENTATION
I.P. Receiver: ANDROTEX TDR-6
I.P. Transmitter/Generator: BRGM VIP 3000

SURVEY PARAMETERS
Survey Mode: Time Domain
Array: Double-Dipole
Dipole Length: 15 metres
Dipole separation: n=1 to 6
Delay Time: 80 milliseconds
Integration Time: 1760 milliseconds
Charge Cycle: 8 second square wave

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Geotronics

Scale 1:5000
50 0 50 100 150 200 250
(metres)

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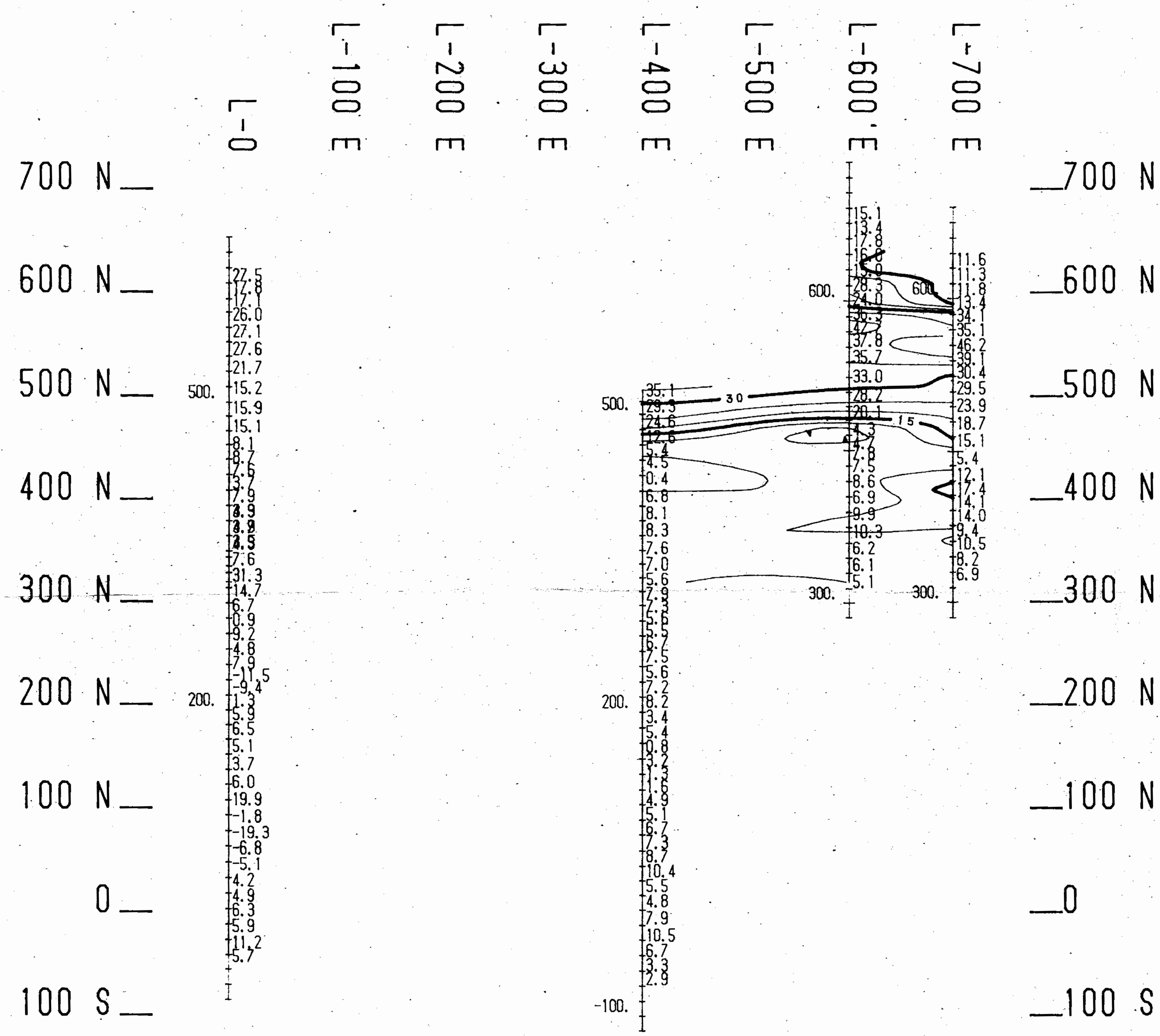
Naniamo Mining Division, B.C.

APPARENT RESISTIVITY
SURVEY PLAN - LEVEL FOUR

Drawn by:	Job No.	NTS	Date	Map No.
RTM	96-03	92K/6W	FEB. 96	GP-8

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,490



Declination: 22.5

LEGEND

CONTOUR INTERVALS:

Resistivity :	log base 10 ohm-metres
Chargeability:	5 milliseconds

INSTRUMENTATION

I.P.Receiver:	ANDROTEX TDR-6
I.P.Transmitter/Generator:	BRGM VIP 3000

SURVEY PARAMETERS

Survey Mode:	Time Domain
Array:	Double-Dipole
Dipole Length:	15 metres
Dipole separation:	n=1 to 6
Delay Time:	80 milliseconds
Integration Time:	1760 milliseconds
Charge Cycle:	8 second square wave

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AQUISTAR VENTURES INC.

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Naniamo Mining Division, B.C.

APPARENT CHARGEABILITY (IP) SURVEY PLAN - LEVEL FOUR

Drawn by:	Job No.	NTS	Date	Map No.
RTM	96-03	92K/6W	FEB. 96	GP-7

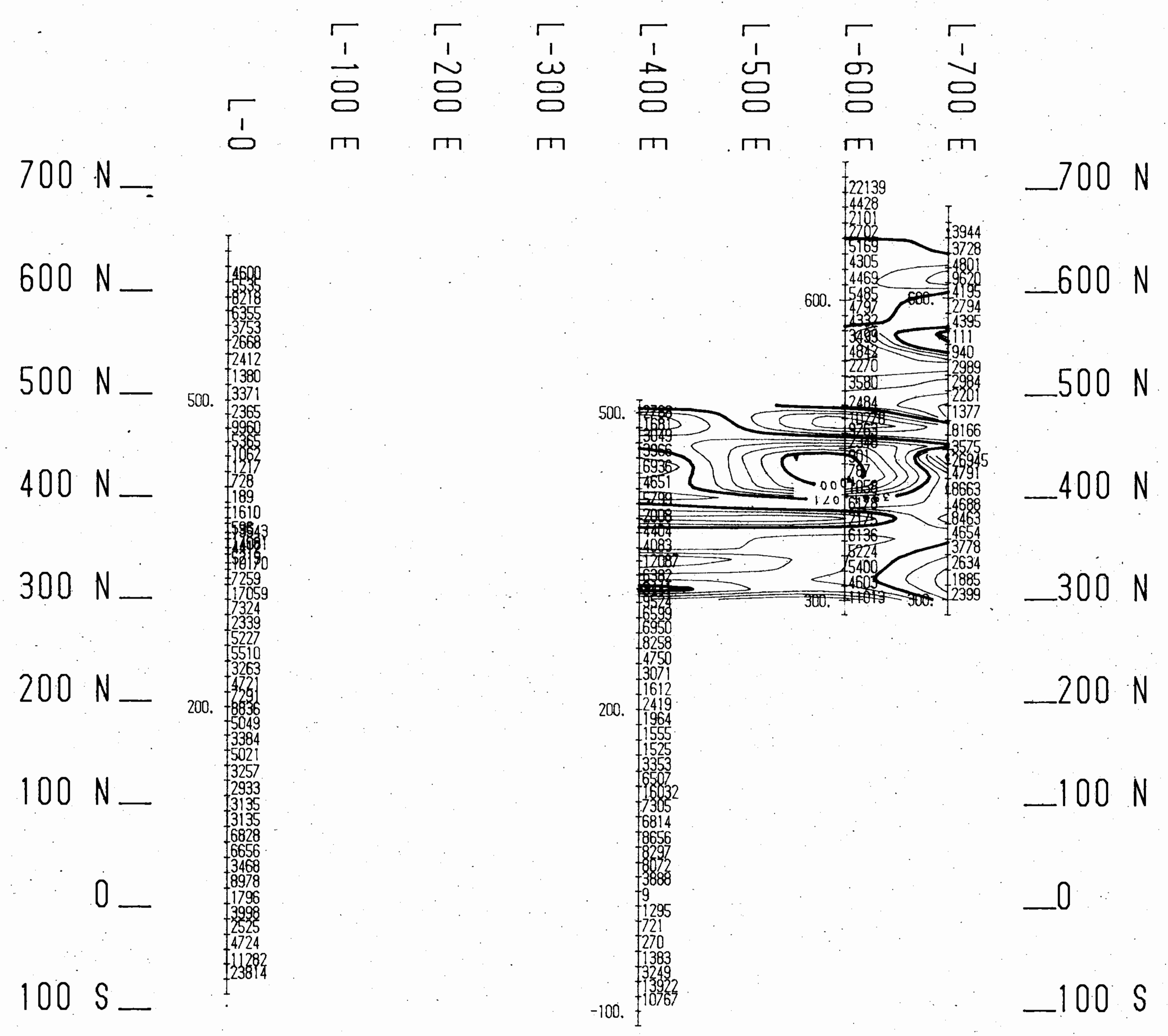
Geotronics

Scale 1:5000
50 0 50 100 150 200 250
(metres)

Surveyed by GEOTRONICS SURVEYS LTD

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,490



Declination: 22.5

LEGEND

CONTOUR INTERVALS:

Resistivity : log base 10 ohm-metres
Chargeability: 5 milliseconds

INSTRUMENTATION

I.P. Receiver: ANDROTEX TDR-6
I.P. Transmitter/Generator: BRGM VIP 3000

SURVEY PARAMETERS

Survey Mode:	Time Domain
Array:	Double-Dipole
Dipole Length:	15 metres
Dipole seperation:	n=1 to 6
Delay Time:	80 milliseconds
Integration Time:	1760 milliseconds
Charge Cycle:	8 second square wave

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Scale 1:5000
50 0 50 100 150 200 250
(metres)

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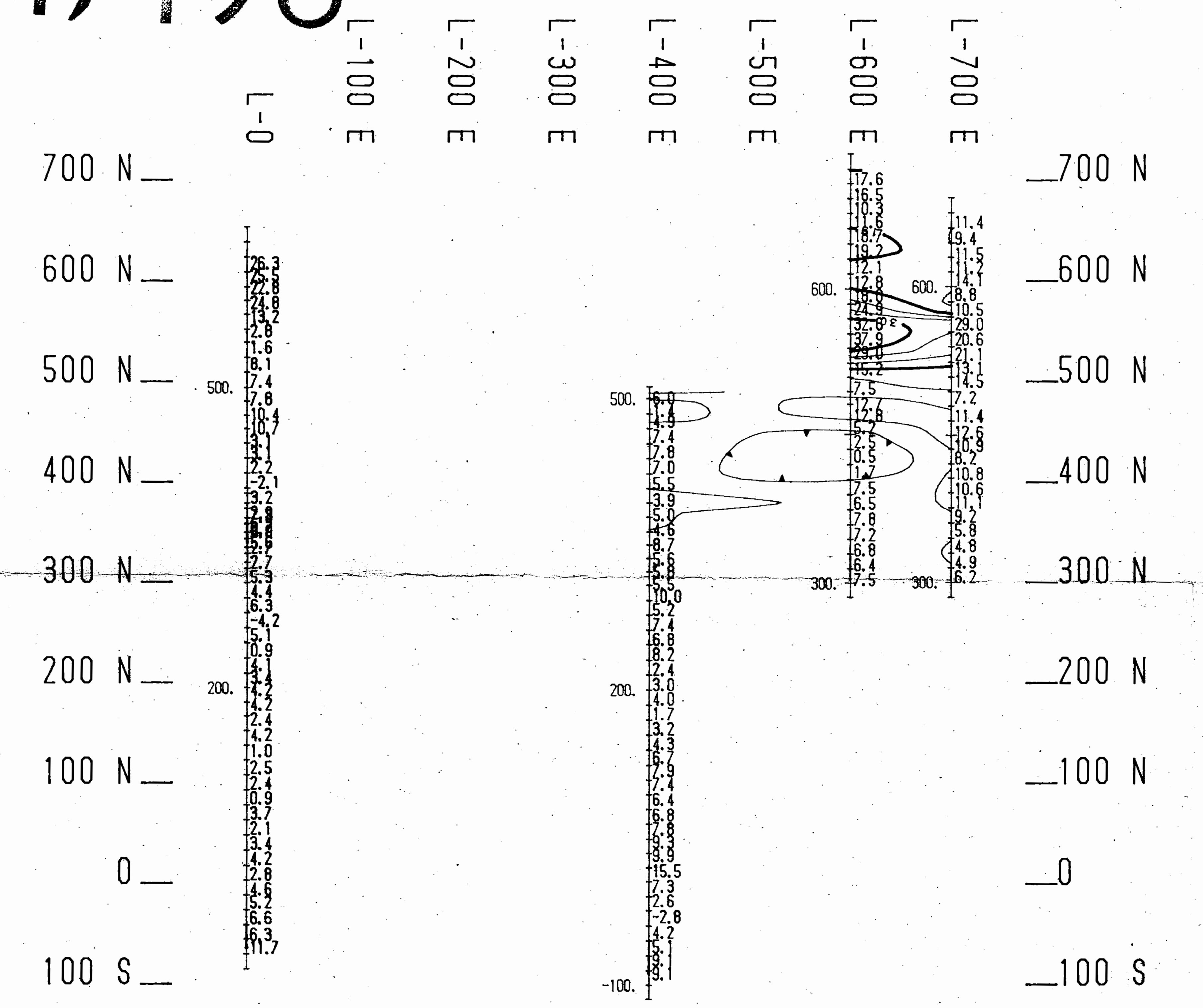
Sonora Point, Sonora Island
Naniamo Mining Division, B.C.

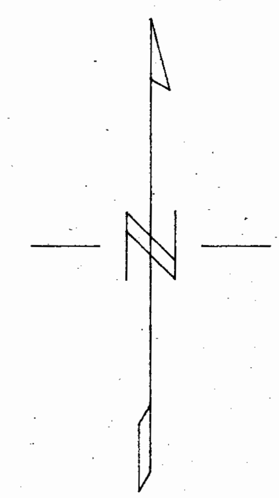
APPARENT RESISTIVITY
SURVEY PLAN - LEVEL ONE

Drawn by:	Job No.	NTS	Date	Map No.
RTM	96-03	92K/6W	FEB. 96	GP-6

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,490





LEGEND

CONTOUR INTERVALS:
Resistivity: log base 10 ohm-metres
Chargeability: 5 milliseconds

INSTRUMENTATION
I.P. Receiver: ANDROTEX TDR-6
I.P. Transmitter/Generator: BRGN VIP 3000

SURVEY PARAMETERS
Survey Mode: Time Domain
Array: Double-Dipole
Dipole Length: 15 metres
Dipole separation: n=1 to 6
Delay Time: 80 milliseconds
Integration Time: 1760 milliseconds
Charge Cycle: 8 second square wave

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Sonora Point, Sonora Island
Nanaimo Mining Division, B.C.

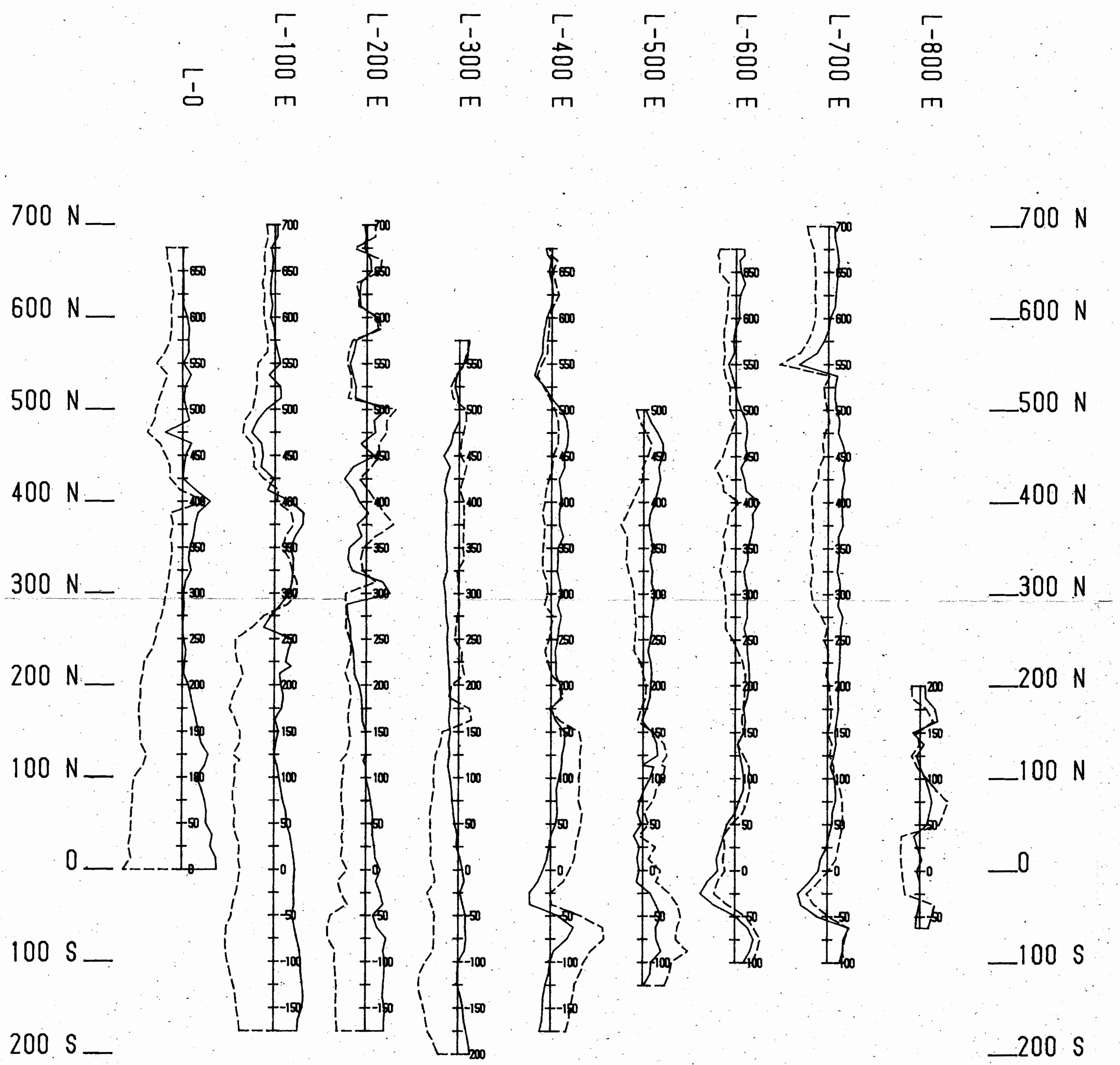
APPARENT CHARGEABILITY (IP) SURVEY PLAN - LEVEL ONE

Drawn by:	Job No.	NTS	Date	Map No.
RTM	96-03	92K/6W	FEB. 96	GP-5

Geotronics

Scale 1:5000
50 0 50 100 150 200 250
(metres)

Surveyed by GEOTRONICS SURVEYS LTD



Instrumentation:
Scintrex Omni-Plus
VLF/Magnetometer system

Survey Date: Febuary 1996

Transmitter:
Jim Creek, Washington (24.8 kHz)
Bearing: S.E.

Data reduction:
Geotronics Surveys Ltd.

VLF Profiles & Vertical Scale:
———— Tilt angle (15 deg per cm)
- - - - - Quadrature (15 deg per cm)

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,490

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BRITISH COLUMBIA
GEOSCIENTIST

Geotronics

Scale 1:5000

50 0 50 100 150 200 250
(metres)

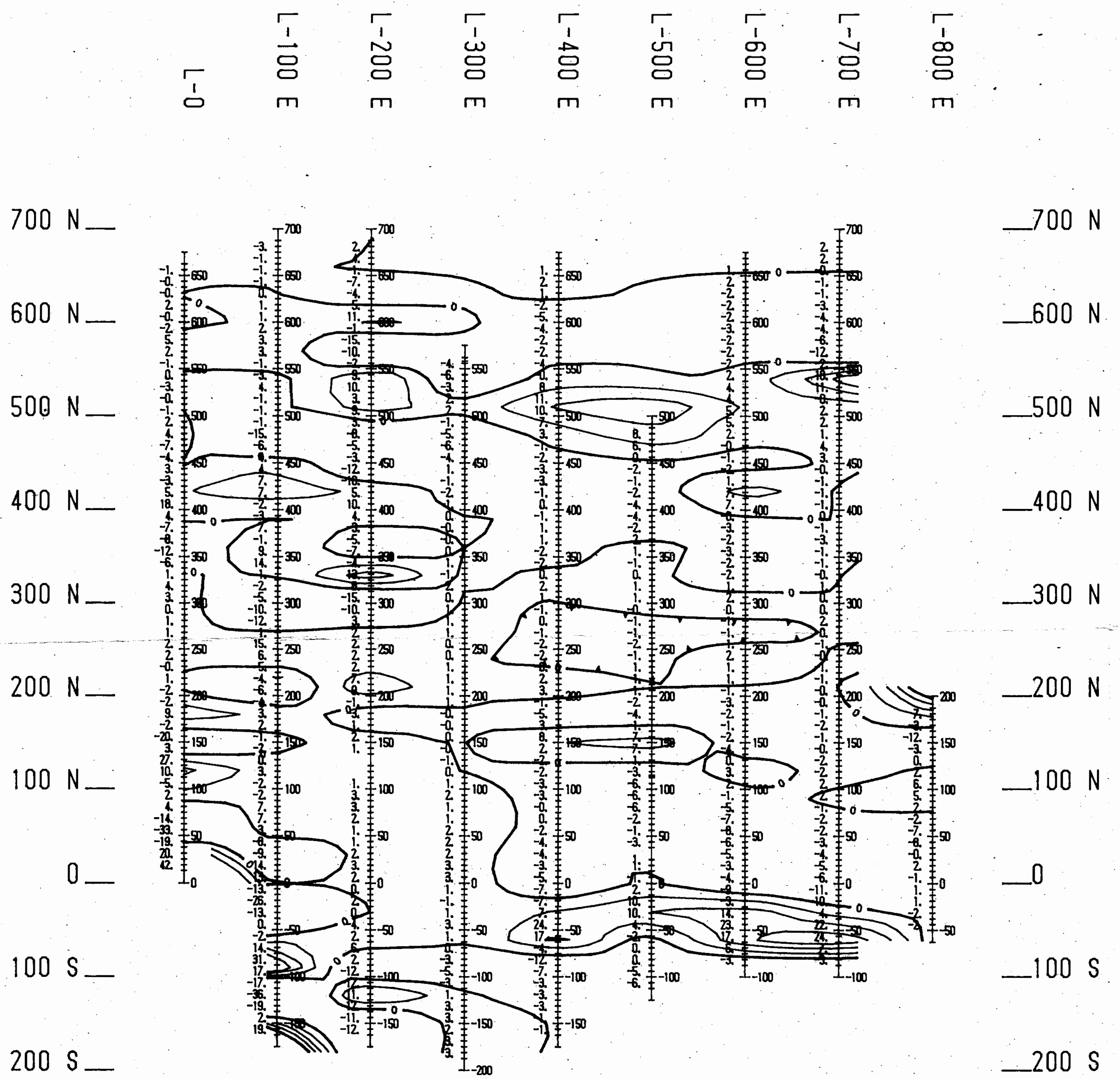
ASHWORTH EXPLORATIONS LTD

AQUISTAR VENTURES INC.

HOPE CLAIM GROUP
Sonora Point, Sonora Island
Naniamo Mining Division, B.C.

VLF SURVEY
PROFILE PLAN

Drawn by:	Job No.	NTS	Date	Map No.
RTM	96-03	92K/6W	FEB. 96	GP-4



Instrumentation:
Scintrex Omni-Plus
VLF/Magnetometer system

Survey Date:
Febuary 1995

Contour Interval: 5 deg.

Transmitter:
Jim Creek, Washington (24.8 kHz)
Bearing: S.E.

Data reduction:
Geotronics Surveys Ltd.

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

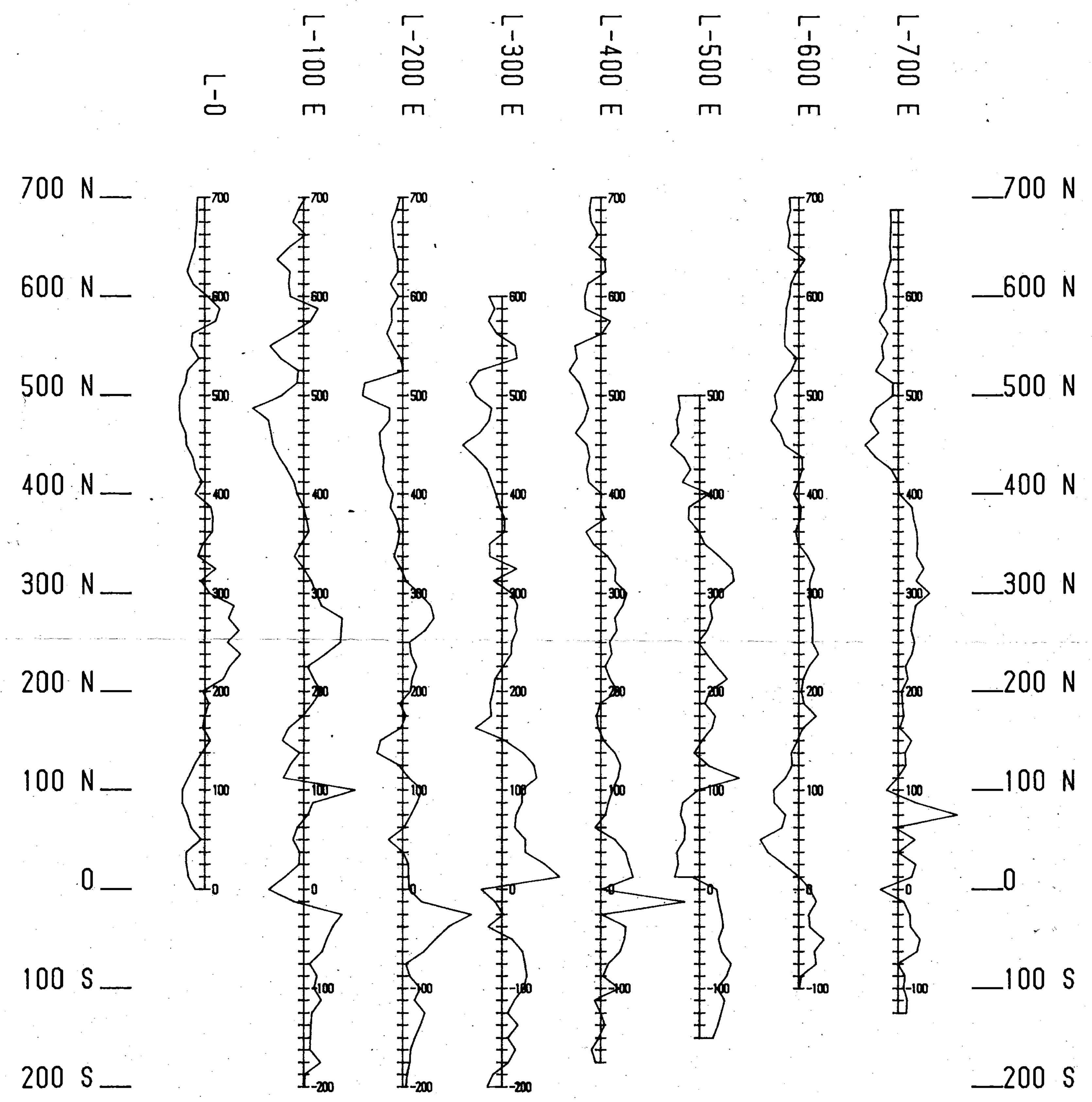
24,490

PROFESSIONAL GEOSCIENTIST
PROVINCE OF BRITISH COLUMBIA
D.G. MARK

Geotronics

Scale 1:5000
50 0 50 100 150 200 250
(metres)

ASHWORTH EXPLORATIONS LTD				
AQUISTAR VENTURES INC.				
HOPE CLAIM GROUP Sonora Point, Sonora Island Naniamo Mining Division, B.C.				
VLF SURVEY FRASER FILTERED - CONTOUR PLAN				
Drawn by: RTM	Job No. 96-03	NTS 92K/6W	Date FEB. 96	Map No. GP-3



Instrumentation:
Scrintex Omni-Plus
VLF/Magnetometer system

Survey Date:
Febuary 1996

Magnetic Profile:
400 nT (gammas) per cm

Data Reduction:
Geotronics Surveys Ltd.

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,490

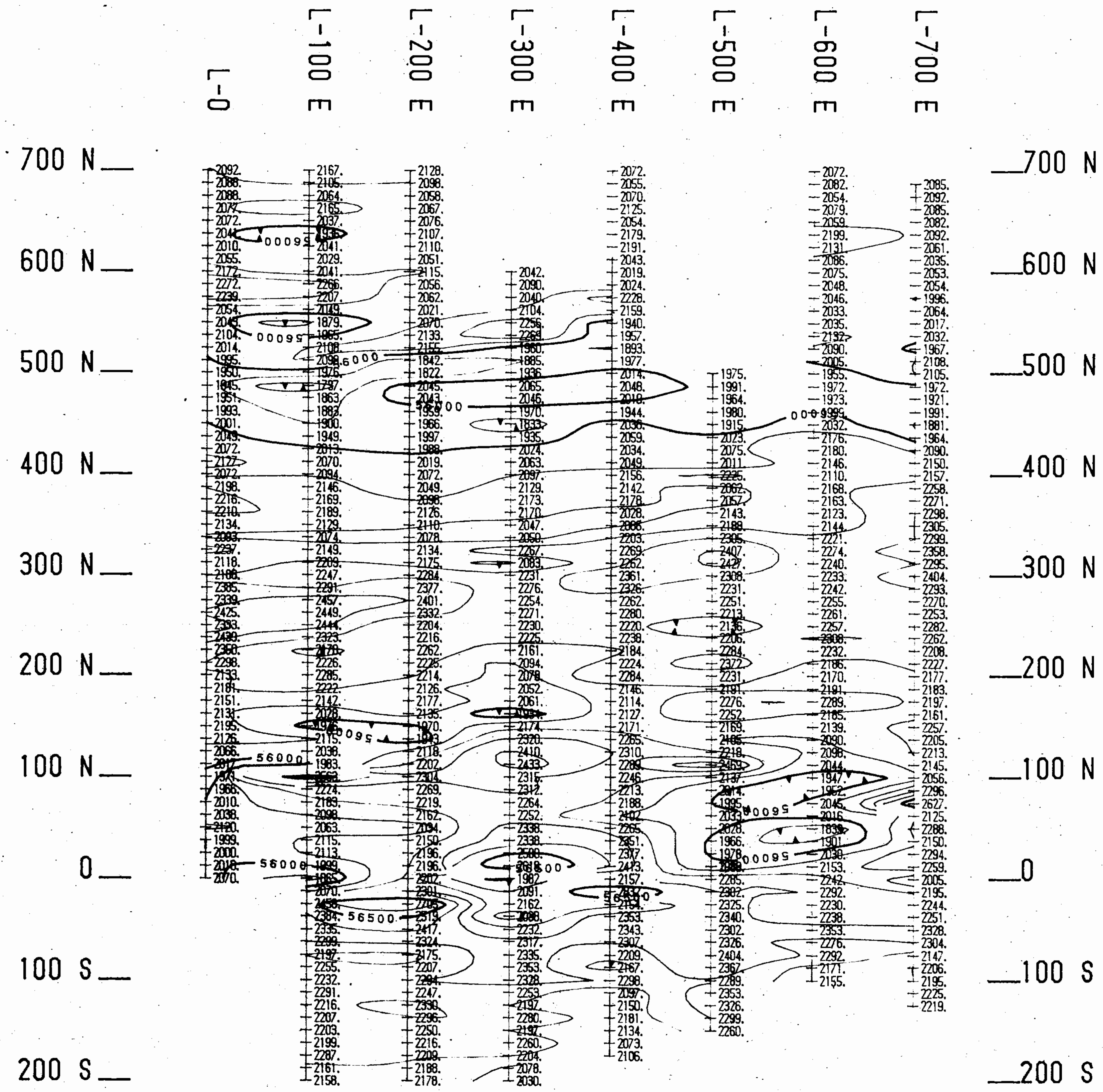
PROFESSIONAL
PROVINCE OF
D.G. MARK
BRITISH COLUMBIA
GEOSCIENTIST

Geotronics

Scale 1:5000

50 0 50 100 150 200 250
(metres)

ASHWORTH EXPLORATIONS LTD				
AQUISTAR VENTURES INC.				
HOPE CLAIM GROUP Sonora Point, Sonora Island Naniamo Mining Division, B.C.				
MAGNETIC SURVEY PROFILE PLAN				
Drawn by: RTM	Job No. 96-03	NTS 92K/6W	Date FEB. 96	Map No. GP-2



Instrumentation:
Scrintex Omni-Plus
VLF/Magnetometer system

Survey Date:
Febuary 1996

Contour Interval:
100 nT (gammas)

Note:
54,000 nT (gammas) has been deducted from each posted value.

Trend Enhancement:
None

Data Reduction:
Geotronics Surveys Ltd.

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

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Geotronics

Scale 1:5000

50 0 50 100 150 200 250
(metres)

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HOPE CLAIM GROUP

Sonora Point, Sonora Island
Naniamo Mining Division, B.C.

MAGNETIC SURVEY CONTOUR PLAN

Drawn by:	Job No.	NTS	Date	Map No.
RTM	96-03	92K/6W	FEB. 96	GP-1