

GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL

REPORT ON THE

WHITE CAP PROPERTY

OF

ARMENO RESOURCES INC.

AND

TRANS ATLANTIC RESOURCES INC.

WHITE CAP CLAIM GROUP

LILLOOET MINING DIVISION, B.C.

NTS 92 J 9W/16W

LATITUDE 50°44'N, LONGITUDE 122°25'W

BY

Larry R. Haynes, B.Sc., F.G.A.C.

**Azimuth Geological Incorporated
March 1988
Vancouver, B.C.**

17177

ARIS SUMMARY SHEET

District Geologist, Kamloops

Off Confidential: 89.03.07

ASSESSMENT REPORT 17177

MINING DIVISION: Lillooet

PROPERTY: White Cap
 LOCATION: LAT 50 44 50 LONG 122 24 57
 UTM 10 5621659 541214
 NTS 092J09W 092J16W

CLAIM(S): Gold Cap 3-4, Aspen

OPERATOR(S): Armeno Res.

AUTHOR(S): Haynes, L.R.

REPORT YEAR: 1988, 48 Pages

COMMODITIES

SEARCHED FOR: Gold, Silver

GEOLOGICAL

SUMMARY: A small dioritic outlier of the Upper Cretaceous Bendor Batholith intrudes Permo-Triassic Bridge River Group metavolcanics and metasediments. Quartz veining containing disseminated sulphides are associated with the contact zone.

WORK

DONE: Geological, Geochemical, Geophysical

EMGR 0.6 km; VLF

GEOL 0.1 ha

Map(s) - 1; Scale(s) - 1:2500, 1:200

HMIN 4 sample(s) ;ME

ROCK 42 sample(s) ;ME

SILT 2 sample(s) ;ME

SOIL 19 sample(s) ;ME

MINFILE: 092JNE093

LOG NO: 0321	RD.
ADDRESS:	
FILE NO:	

GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL

REPORT ON THE

WHITE CAP PROPERTY

OF

ARMENO RESOURCES INC.

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WHITE CAP CLAIM GROUP

LILLOOET MINING DIVISION, B.C.

NTS 92 J 9W/16W

LATITUDE 50°44'N, LONGITUDE 122°29'W

BY

Larry R. Haynes, B.Sc., F.G.A.C.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

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Azimuth Geological Incorporated
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Vancouver, B.C.

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VII	Analytical Results - Underground Samples
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WHITE CAP PROPERTY
Geology, Geochemistry, Geophysics
Lillooet Mining Division
NTS 92 J 9W/16W

SUMMARY

The White Cap Group of claims cover a gold prospect located along the southwest slope of Nosebag Mtn., thirty-two kilometres east of Bralorne, B.C.

The property was found to overlie Paleozoic Bridge River (Fergusson) Group metamorphics that are locally intruded by a small dioritic body. The diorite is closely related to the Upper Cretaceous Bendor Pluton, five kilometres to the west. A poorly exposed contact zone containing gossanous quartz veins has been tested in the past with a 196 metre long adit.

During the period from September 1987 to January 1988 several, brief investigations were carried out on the property. Results of this work show highly anomalous Au, Ag, Pb, Mo and W values associated with quartz veins exposed in the adit.

Additional work is recommended to test for mineralization along the extension of the contact zone in the adit area. Work is also recommended to test other zones outside of the adit area.

WHITE CAP PROPERTY
Geology, Geochemistry, Geophysics
Lillooet Mining Division
NTS 92J 9W/16W

1.0 INTRODUCTION

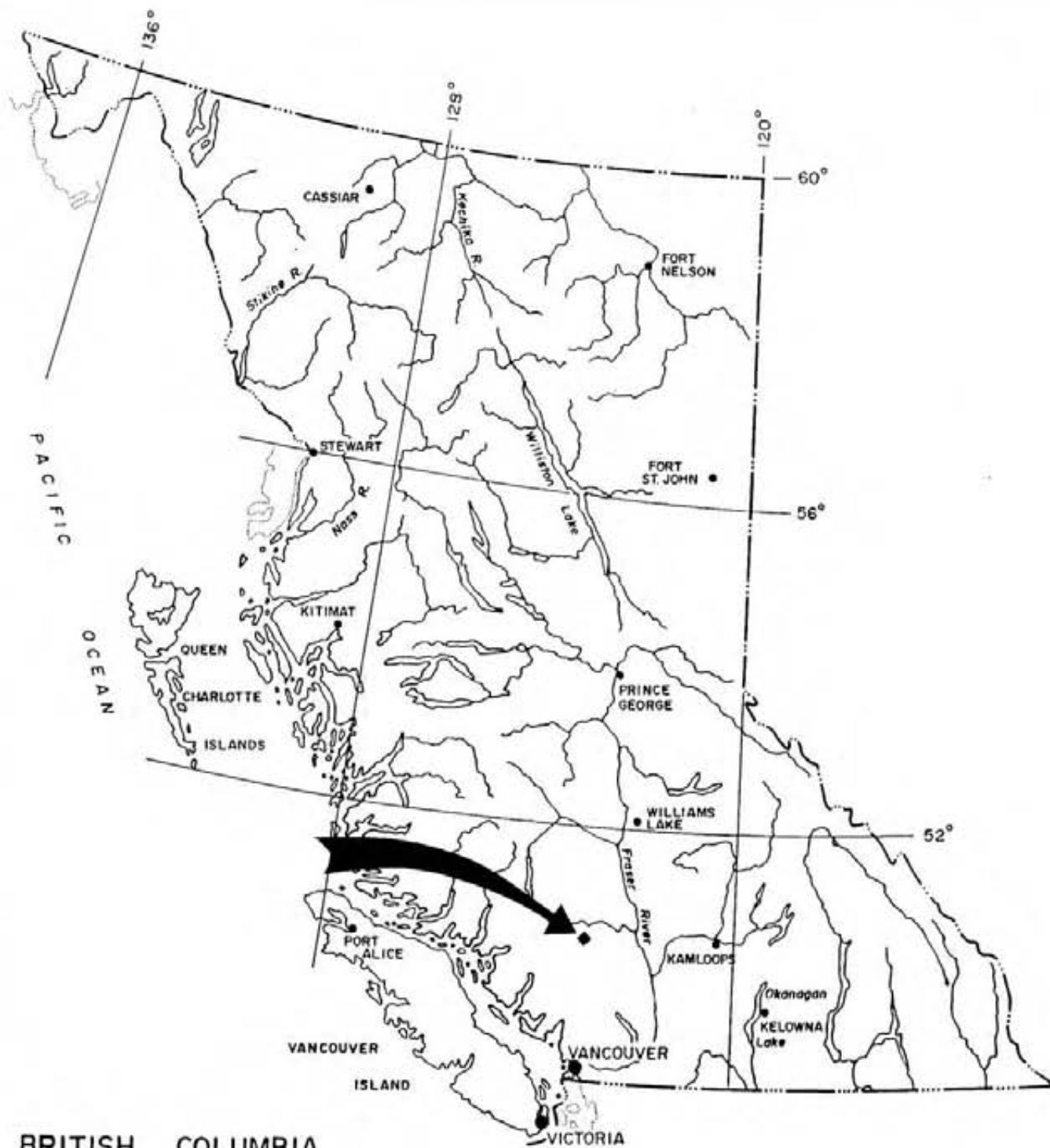
The White Cap Property covers a gold prospect 32 km due east of Bralorne, B.C. From September 9, 1987 to January 27, 1988, reconnaissance geological, geochemical and geophysical surveys were carried out on the property. Results of these surveys are discussed in the following report.

1.1 Location and Access

The property is located in the Lillooet Mining District, B.C., approximately thirty-two kilometres due east of Bralorne, B.C. and two kilometres southwest of Nosebag Mountain. The claims cover approximately 15 km², centering on latitude 50°44'N and longitude 122°25'W.

The lower portions (Aspen Claim) of the White Cap Property can be accessed by the Whitecap Creek logging road from Seton Portage, B.C., eight kilometres to the southeast. Approximately sixty kilometres of good gravel road connect Seton Portage with Transprovincial Highway 12 at Lillooet, B.C.

Cariboo Chilcotin Helicopters Ltd. from Lillooet, B.C. was chartered to help facilitate work on the upper portions (Gold Cap 3 & 4 claims) of the property.



BRITISH COLUMBIA

Scale 1 : 7,500,000 approx.

ARMENO RESOURCES INC.		
TRANS ATLANTIC RESOURCES INC.		
WHITE CAP PROPERTY		
GENERAL LOCATION MAP		
Azimuth Geological Incorporated	By: L.R.H.	Figure: 1
	N.T.S. 92-J/9 + 16	
	Date: March '88	

1.2 Property and Claim Status

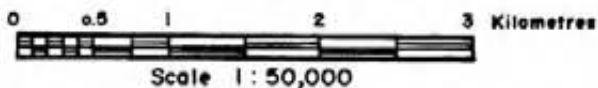
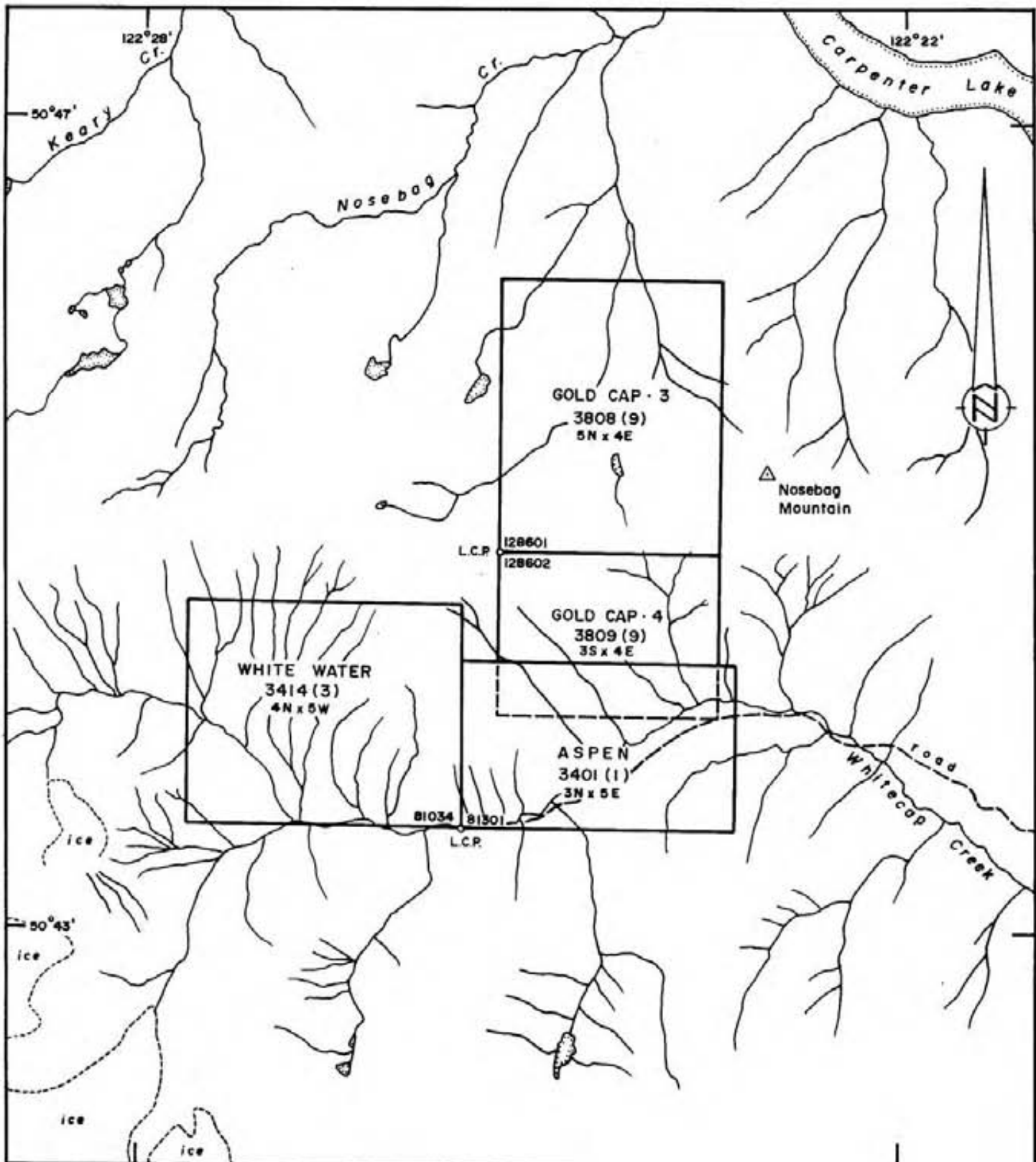
The White Cap Property currently consists of 4 claims with a total of 67 claim units identified in Table A below. The accompanying map on page 5 shows the relative location of these claims.

TABLE A

Claim Status - White Cap Group

<u>Claim Name</u>	<u>Record No.</u>	<u>Units</u>	<u>Expiry Date*</u>
Aspen	3401	15	January 21, 1990
White Water	3414	20	March 7, 1990
Gold Cap 3	3808	20	September 9, 1990
Gold Cap 4	3809	12	September 9, 1990

* Expiry date includes assessment credits applied for with this report.



ARMENO RESOURCES INC.
TRANS ATLANTIC RESOURCES INC.
WHITE CAP PROPERTY

CLAIM MAP

Azimuth
Geological
Incorporated

By: L.R.H.
N.T.S. 92-J/9+16
Date: March '88

Figure:
2

1.3 History and Previous Work

Armeno Resources Inc. purchased the Aspen and White Water Mineral Claims from M.G. Walker on July 31, 1987. Two additional claims, the Gold Cap 3 and Gold Cap 4 Claims, were subsequently located on September 9, 1987.

A 196-metre long adit is found approximately 520 metres at a bearing of 110° from the LCP for the Gold Cap 3 and 4 Claims. The adit is in excellent condition, of undetermined age with no apparent record of its history. It is believed that the adit was following quartz veins associated with the contact zone between intrusive and metamorphic rocks.

During 1969-70, the Lubra showing, a sulphide bearing skarn was explored by Union Carbide Canada Mining Ltd. The showing lies north of the summit of Nosebag Mountain near the eastern boundary of the Gold Cap 3 Claim. No other work is recorded in the claim area.

1.4 Work by Armeno Resources Inc. in 1987-1988

Reconnaissance field work on the White Cap Property commenced on September 9, 1987 and continued on an intermittent basis until January 27, 1988. During this period the following work was completed by Azimuth Geological and others for Armeno Resources Inc.

1. The location of the White Cap Adit was surveyed relative to the LCP for the Gold Cap 4 Claim. Survey data for the traverse is included as Appendix VIII.
2. Heavy mineral concentrates and silt samples were collected from Whitecap Creek and its tributaries.

1.4 Work by Armeno Resources Inc. in 1987-1988 (cont'd)

3. Two short (300m) grid lines were established over the White Cap Adit. Reconnaissance soil and VLF/EM-16 surveys were completed along the grid lines.
4. The White Cap Adit was mapped and sampled.
5. Reconnaissance mapping was carried out on the Gold Cap 3 & 4 Claims.

2.0 GEOLOGY AND MINERALIZATION

2.1 Regional Geology

The regional geology of this area is described by Roddick, J.A. & Hutchison, W.W. in GSC Paper 73-13 and by Woodsworth, G.T. & Roddick, J.A. in GSC Open File 482. Figure 3 and Table B below illustrate the regional geology in the immediate area of the White Cap Claims.

TABLE B

Legend - GSC O.F. 482, G.J. Woodsworth, 1977

PLUTONIC ROCKS (mostly of unknown age)

- gd Granodiorite
- gd Quartz diorite
- di Diorite; dioritic complexes containing diorite, quartz diorite, amphibolite, greenstone, and dyke swarms

STRATIFIED AND HIGH-LEVEL PLUTONIC ROCKS

MIOCENE OR YOUNGER(?)

- 20 Rhyolite and dacite breccia, tuff, and flows, minor sediments; 20a, andesitic volcanic breccia and conglomerate, lesser basalt; 20b, REXMOUNT PORPHYRY: dacitic porphyry (intrusive equivalent of 20?)

EOCENE(?)

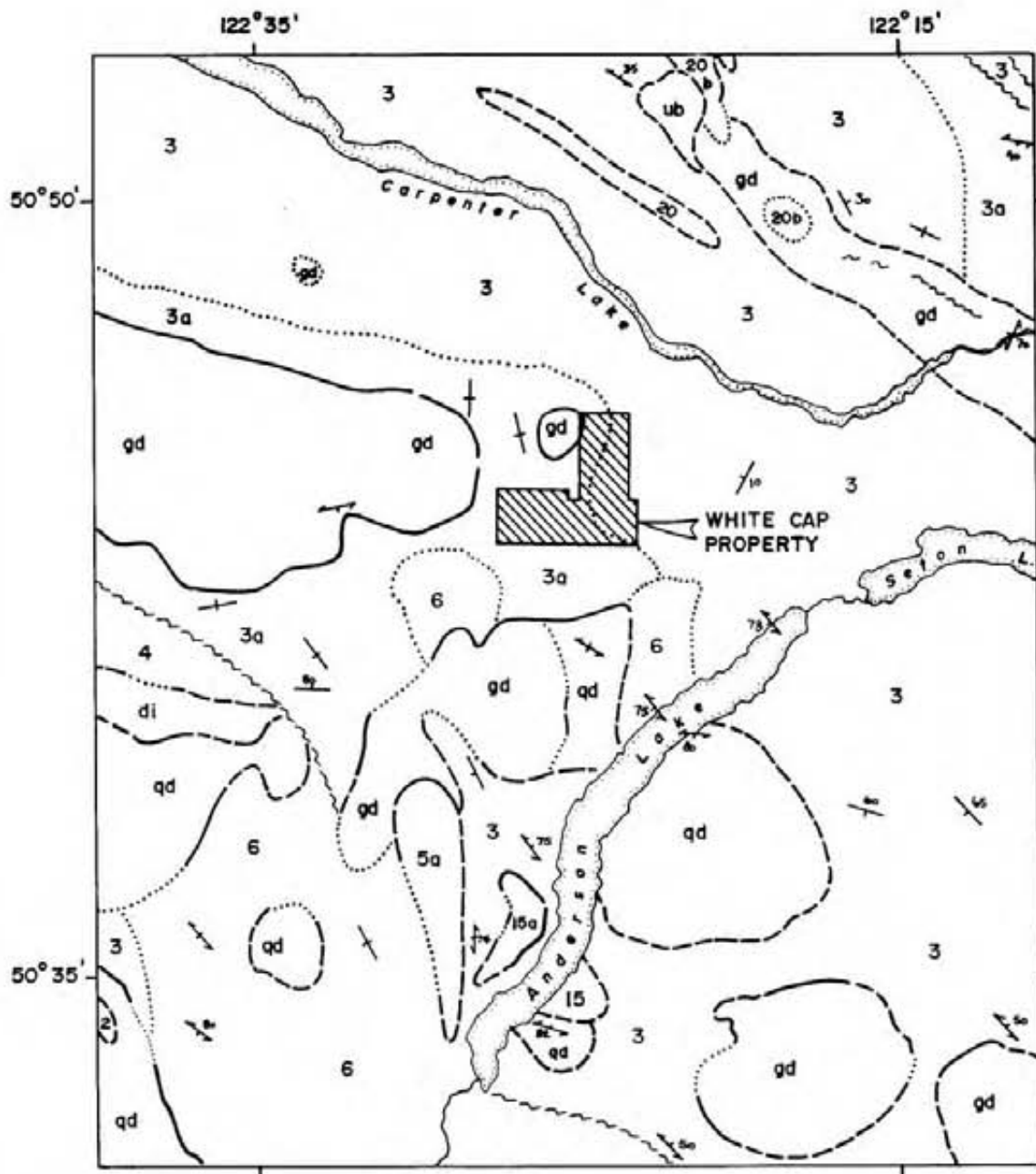
- 15 Mirolitic granite; 15a, dacitic volcanics and porphyries (possibly equivalent to 19a?)

UPPER TRIASSIC

- 6 HURLEY FORMATION: Thin-bedded argillite, phyllite, limestone, tuff, conglomerate, andesite, minor chert
- 5 PIONEER FORMATION: Greenstone, andesitic to basaltic flows and pyroclastics; 5a, BRALORNE INTRUSIONS (in part): augite diorite, gabbro, greenstone (intrusive and dioritized equivalents of 5)
- 4 NOEL FORMATION: Thin-bedded argillite, chert, conglomerate and greenstone

TRIASSIC AND JURASSIC AND OLDER(?)

- ub Ultramafic rocks: Serpentine, harzburgite, peridotite, diorite
- 3 BRIDGE RIVER (FERGUSON) GROUP: Greenstone, basalt, chert, argillite, phyllite; minor limestone, serpentine, and serpentinized peridotite; 3a, more metamorphosed equivalents of 3, mainly biotite schist



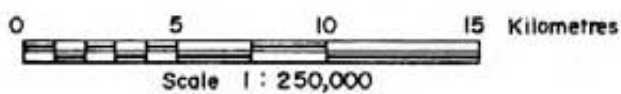
LEGEND

Geological Boundary
(defined, approximate, assumed)

Bedding (inclined, vertical)

Foliation, Schistosity (inclined, vertical)

Fault (assumed)



N.B. ROCK DESCRIPTIONS - see Table 'B'

ARMENO RESOURCES INC. TRANS ATLANTIC RESOURCES INC.		
WHITE CAP PROPERTY		
REGIONAL GEOLOGY		
after G.J. Woodsworth, 1977 G.S.C. O.F. 482		
Azimuth Geological Incorporated	By: L.R.H.	3
	N.T.S. 92-J	
	Date: March '88	

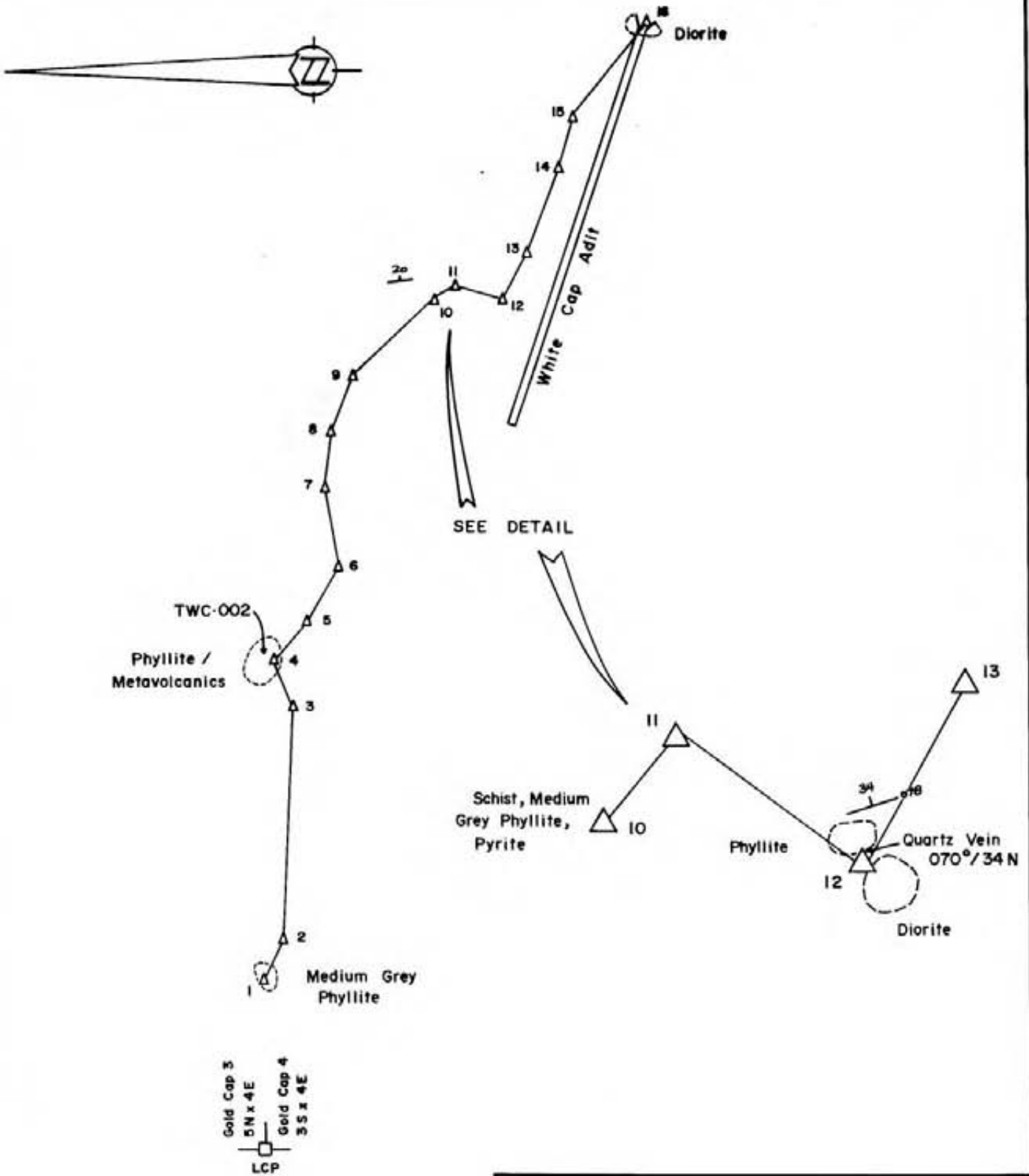
2.2 Local Geology

Local investigations of the geology were restricted to an orientation traverse on the Gold Cap 3 and 4 Claims, mapping along the survey traverse between the LCP for Gold Cap 4 and the White Cap Adit and underground mapping of the adit. Descriptions of rock samples collected during the mapping are given in Table C.

Reconnaissance mapping and efforts by earlier workers has identified a number of granitic rocks present on the White Cap Property. These units vary from diorite to granodiorite in composition and intrude phyllites, schist, metavolcanics and minor limestone. The intrusives are spatially related to the Bendor Pluton mapped to the west.

Surface mapping at a scale of 1:2,500 was carried out along a surveyed traverse between the White Cap Adit and the LCP for the Gold Cap 4 Claim. Results of the mapping are shown in Figure 4. The mapping shows a weakly mineralized contact zone between diorite and metavolcanics at Stn. 12, approximately 130 metres northwest of the White Cap Adit.

The 196 metre long White Cap Adit was mapped at a scale of 1:200. The adit begins in diorite and terminates in metavolcanics. The adit crosses the contact between the diorite and metavolcanics approximately 144 metres from the portal. Two small (0.5 m) beds of limestone are found in the metavolcanics at 172 and 180 metres. Results of the underground mapping are shown in Figure 5.



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WHITE CAP PROPERTY		
LOCAL GEOLOGY		
White Cap Survey Traverse 1		
Azimuth Geological Incorporated	By: L.R.H.	Figure: 4
	N.T.S. 92-J/9116	
	Date: March '88	

TABLE C

Rock Sample Descriptions - White Cap Property

<u>Sample</u>	<u>Location</u>	<u>Type</u>	<u>Description</u>	<u>Au (ppb)</u> <u>Ag(ppm)</u>
WCA 001	White Cap Adit	Grab	Black, fine grained, schistose rock with quartz veinlets to 3 mm. Indeterminate composition. Possible argillite or schistose metavolcanic. At 196.0 m.	1 0.3
WCA 002	White Cap Adit	Grab	Black, fine grained, silicified rock with minor, fine grained disseminated pyrite. Indeterminate composition. At 165.0 m.	2 0.3
TWC 001	Gold Cap 4 Claim	Grab	North of old adit at 1940 m. About 086° to Nosebag Mtn. Outcrop of reddish weathering rock. Argillitic in appearance.	1 0.2
TWC 002	Gold Cap 3 Claim	Grab	North of adit at 2060 m. About 072° to Nosebag Mtn. Silicified rock of possible volcanic or sedimentary composition. Foliation at 330°/80° SW.	1 0.2
JW 001	White Cap Dump	Grab	Grab sample from dump site containing disseminated sulphide.	5 0.5
JW 002	White Cap Adit	Channel	Channel sample from adit at 45.0 m.	80 0.5
JW 003	White Cap Dump	Grab	Grab sample from dump site containing disseminated sulphide.	240 1.5
JW 004	White Cap Dump	Grab	Grab sample from dump site containing disseminated sulphide.	5 0.5

TABLE C (cont'd)

Rock Sample Descriptions - White Cap Property

<u>Sample</u>	<u>Location</u>	<u>Type</u>	<u>Description</u>	<u>Au (ppb)</u> <u>Ag(ppm)</u>
JW 005	White Cap Adit	Channel	Channel sample from adit at 184.0 m.	5 0.5
JW 006	White Cap Adit	Channel	Channel sample from adit at 89.0 m.	60 0.5
JW 007	White Cap Dump	Grab	Grab sample from dump site containing disseminated sulphide.	30 0.5
JW 008	White Cap Dump	Grab	Grab sample from dump site containing disseminated sulphide.	5 0.6

2.3 Mineralization

The White Cap Adit was apparently developed to investigate gossanous quartz veins that occur on surface near the contact between intrusive and metamorphic rocks.

The quartz veins are well defined in the adit and occur in shears, joints and as fracture fillings. The veins are typically narrow (<20cm) and contain occasional disseminated sulphides. Figure 5 shows the distribution of the veins seen during the underground mapping.

3.0 GEOCHEMISTRY

3.1 Sampling Procedures

3.1.1 Heavy Mineral Concentrate Sampling - A total of 4 heavy mineral samples were gathered from streams draining the White Cap Property.

To produce a heavy mineral sample approximately 10 kilograms of sediments were collected from the stream bed. This sample was sieved to remove oversize fragments and the remaining material was panned using a standard gold pan to produce a heavy mineral concentrate.

These samples were shipped to Acme Analytical Laboratories Ltd. in Vancouver, B.C. where special procedures were employed to determine gold content. (Appendix II)

3.1.2 Silt Sampling - Two silts samples were gathered from tributaries of White Cap Creek on the Aspen Claim. The samples were placed in Kraft paper envelopes and shipped to Acme Analytical Laboratories Ltd. in Vancouver, B.C. for Au (FA + AA) and ICP analysis. Sample preparation and analytical procedures are detailed in Appendix II.

3.1.3 Soil Sampling - A total of 19 soil samples were collected from two east-west lines (L0 + 00 and L1 + 00N) one hundred metres apart. The portal of the White Cap Adit was used as the origin (L0 + 00N, 0 + 00W).

Samples sites were generally selected at 25 metre intervals and were collected from the "B" horizon utilizing a steel "tree planters" shovel or cast iron mattock. Samples were collected from a depth of 10 to 50 cm varying with depth to the "B" horizon.

All samples were placed in kraft paper envelopes and shipped to Acme Analytical Laboratories Ltd. in Vancouver, B.C. for preparation and analysis.

3.1.4 Rock Sampling - Twelve rock samples (JW 001 - JW 008, TWC 001 - 002, WCA 001-002) were analyzed for Au (FA + AA) and ICP. Sample preparation and analytical procedures are detailed in Appendix II.

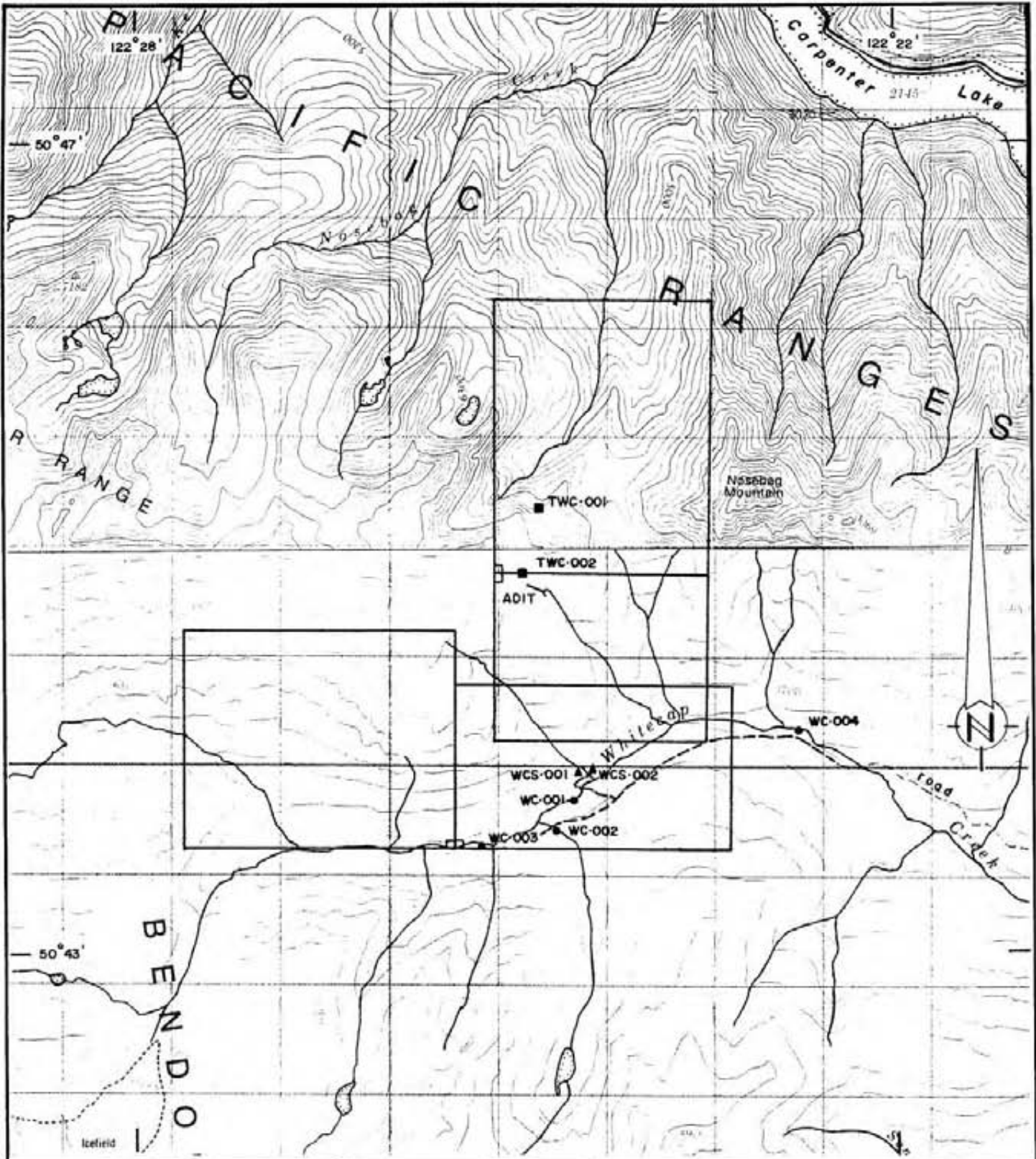
3.1.5 Underground Sampling - A total of thirty chip and channel samples were collected from quartz veins exposed in the White Cap Adit. Sample sites were chosen so only vein material was collected. Wherever possible samples were collected along one metre lengths. Samples were placed in plastic bags and shipped to Acme Analytical Labs for Au (FA + AA) and 30 element ICP analysis.

3.2 Presentation and Discussion of Results

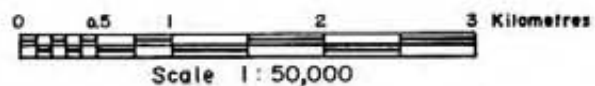
Analytical results for samples collected from the White Cap Property are included in the Appendices. Gold determination include both ICP and FA + AA analysis. Gold results for heavy mineral concentrates, silt samples and rock samples are shown in Figure 6. Soil sample results (ppb Au) are shown in Figure 7.

Heavy mineral concentrates and silt samples were collected along the valley of White Cap Creek. Sample sites were chosen to test for possible indications of mineralization at higher elevations. One sample, WC 003, carried slightly anomalous Au values (73 ppb). Two rock samples (TWC 001, TWC 002) collected along a reconnaissance mapping traverse did not carry gold.

Soil sample results are highlighted by a sample collected from L0+00N, 2+40W. This sample carried extremely high Au values (2730 ppb Au). An assay of the sample reject returned 0.076 oz/ton Au. It is expected that the sample identifies a mineralized quartz vein.



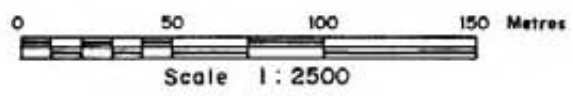
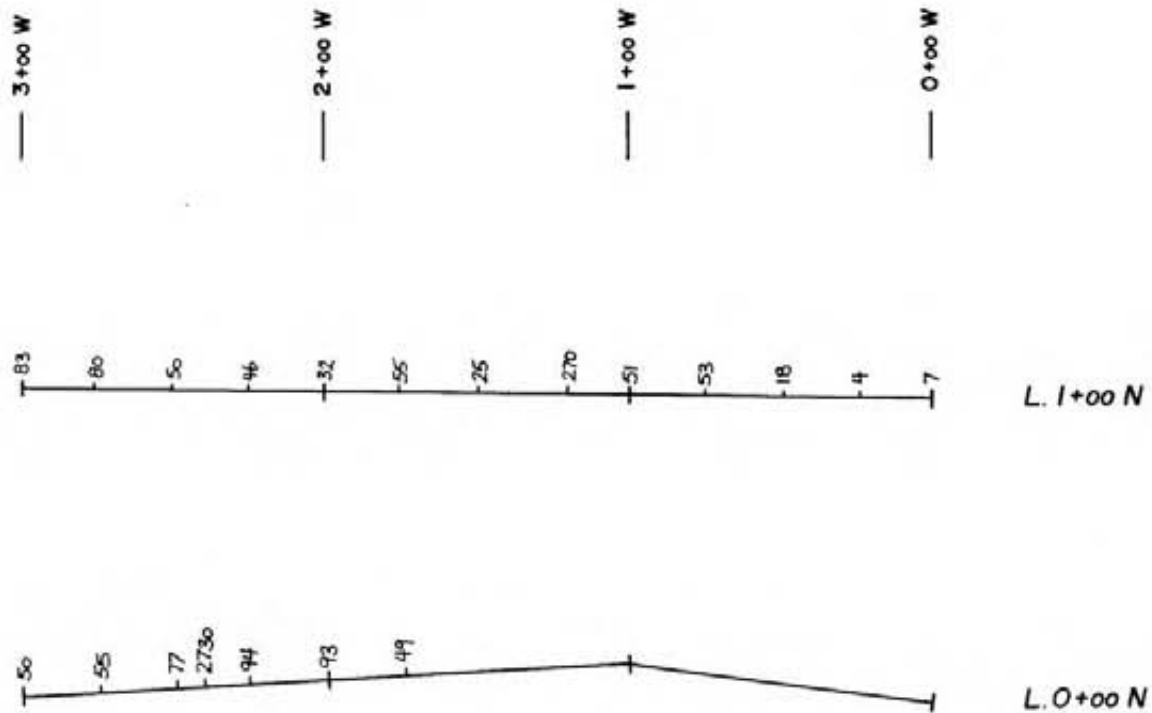
	sample i.d.	ppb Au
Heavy Mineral Concentrate	● [WC-001	6
	● [WC-002	2
	● [WC-003	73
	● [WC-004	10
Silt Sample	▲ [WCS-001	1
	▲ [WCS-002	3
Rock Sample	■ [TWC-001	1
	■ [TWC-002	1



ARMENO RESOURCES INC.
TRANS ATLANTIC RESOURCES INC.
WHITE CAP PROPERTY

SAMPLE LOCATIONS and RESULTS
ppb Au

Azimuth Geological Incorporated	By: L.R.H.	Figure:
	N.T.S. 92-J/9+16	6
	Date: March '88	



ARMENO RESOURCES INC.		
TRANS ATLANTIC RESOURCES INC.		
WHITE CAP PROPERTY		
ppb Au in Soils		
Azimuth Geological Incorporated	By: K.K.	Figure: 7
	N.T.S. 92-J/9 + 16	
	Date: March '88	

Analytical results of different vein material sampled in the adit show anomalous values for Au, Ag, Pb, Mo, and W (see Appendix VII). Gold results are shown in Figure 5 on page 14 and listed in Table D below. The anomalous metal values in the quartz veins are of interest and may indicate potential mineralization on the property.

TABLE D
Chip Sampling - White Cap Adit

<u>Sample No.</u>	<u>Location</u>	<u>Width (m)</u>	<u>ppb Au</u>
17901	S 39.0	C	139
17902	N 45.0	C	985
17903	N 50.0	C	40
17904	N 55.0	1.09	35
17905	N 60.0	0.5	203
17906	N 65.0	0.3	170
17907	N 70.0	1.2	103
17908	N 75.0	0.2	68
17909	S 80.0	0.1	51
17910	N 90.0	0.15	250
17911	N 95.0	C	1030
17912	S 104.0	C	161
17913	N 112.0	0.1	143
17914	S 121.0	C	14
17915	N 122.0	C	39
17916	N 124.0	C	47
17917	S 135.0	C	178
17918	S 138.0	C	33
17919	S 143.0	C	12
17920	N 155.0	C	15
17921	S 160.0	C	88
17922	N 163.0	C	21
17923	S 168.0	C	8
17924	S 173.0	C	4
17925	N 178.0	C	9
17926	S 179.0	1.0	20
17927	S 180.0	1.0	2
17928	S 181.0	1.0	4
17929	N 185.0	C	4
17920	N 193.0	C	1

N - North Wall

S - South Wall

C - Channel Sample
up to 1.0 metre

4.0 GEOPHYSICS

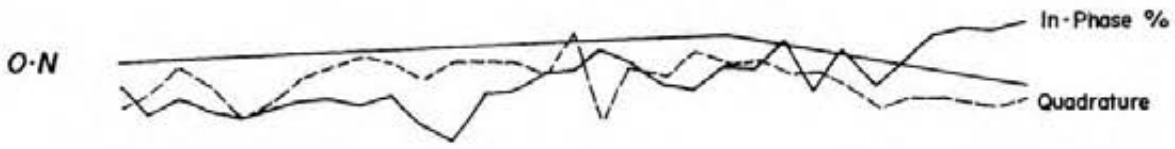
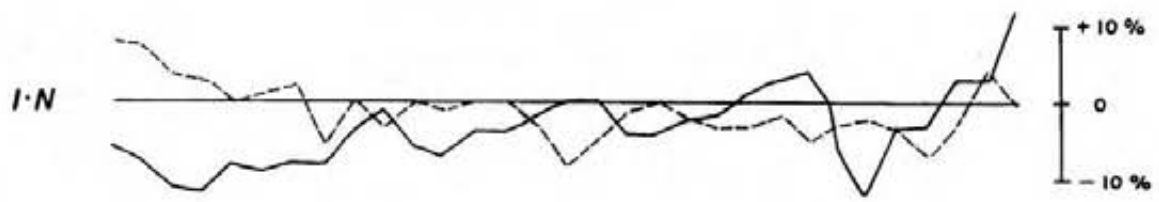
4.1 Method and Procedures

An orientation VLF/EM survey was carried out on lines 0 + 00N and 1+00N near the White Cap Adit. Data was collected from 10 metre stations using a Geonics EM 16 VLF electromagnetic receiver tuned to Cutler, Maine.

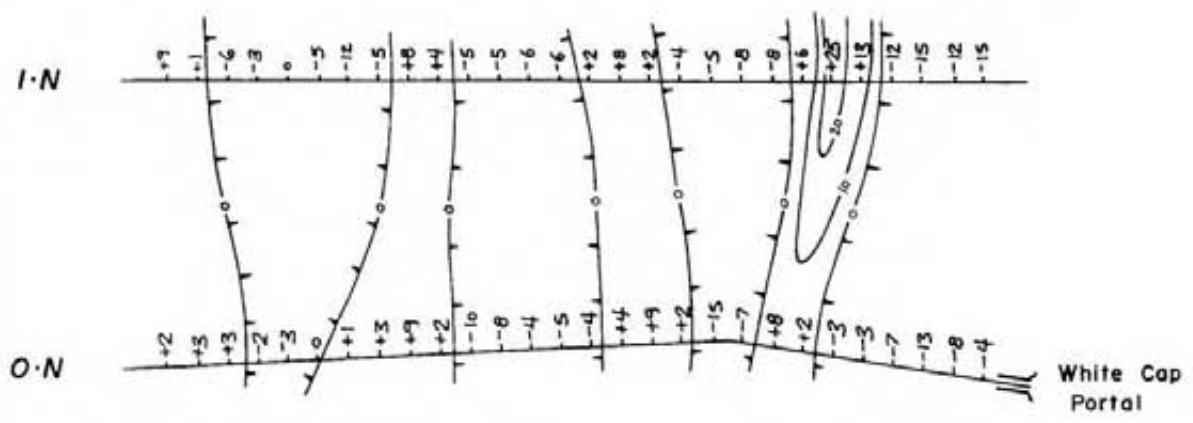
4.2 Presentation and Discussion of Results

The intent of the orientation survey was to test whether or not VLF/EM could be used to identify quartz bearing shear zones and/or identify the contact zone surrounding the intrusive. Figure 8 shows the results of the VLF/EM survey in both Fraser Filter and Profile (basic data) form.

The limited survey information shows two north-south trending linear features crossing the survey lines at approximately 0 + 70W and 1 + 40W. The linear at 1 + 40W corresponds with the general location of the contact zone seen in the adit. The linear at 0 + 70W is especially well defined on line 1 + 00N and is believed to be an extension of a weak shear mapped in the adit at 0 + 80W.

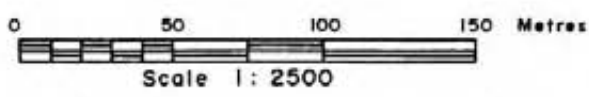


PROFILES



**FRASER FILTER
CONTOURS**

Cutler, Maine
Tx Station



ARMENO RESOURCES INC.		
TRANS ATLANTIC RESOURCES INC.		
WHITE CAP PROPERTY		
VLF-EM · 16 SURVEY		
(Profiles , Fraser Filter Contours)		
Azimuth Geological Incorporated	By: K.K.	Figure:
	N.T.S. 92-J/9 + 16	8
	Date: March '88	


5.0 CONCLUSIONS AND RECOMMENDATIONS

The results of the reconnaissance programme on the White Cap Property has identified a weakly mineralized contact zone between granitic and metasedimentary and metavolcanic rocks. The zone is poorly exposed on the surface but is well defined in the White Cap Adit. Similar zones have been identified by others (Cook & Westervelt, 1969) due east of the Gold Cap 3 Claim.

The results of soil sampling and VLF/EM surveys along two orientation lines suggest these survey techniques can be used to identify possible mineralized structures associated with the contact zone. Chip and channel samples from quartz veins show highly anomalous Au, Ag, Pb, Mo and W values.

Additional work, including a combination of soil sampling, VLF/EM and mapping is recommended for the White Cap Property. Soil sample and VLF/EM surveys should be extended in the immediate area of the Adit. Soil sampling and mapping surveys should be used to test for other zones outside of the adit area.

Respectfully submitted,
AZIMUTH GEOLOGICAL LTD.



Larry R. Haynes

6.0 STATEMENT OF QUALIFICATIONS

I, Larry R. Haynes, residing at 127 East 18th Avenue, Vancouver, B.C., hereby certify that:

1. I graduated from the University of British Columbia in 1972 with a B.Sc. in Geology.
2. I have worked full time since 1972 as an exploration geologist in Canada and the Western United States.
3. I am a Fellow of the Geological Association of Canada, with membership number F4291.
4. I hold not interest either directly or indirectly in the White Cap Property or in the shares or securities of Armeno Resources Inc., nor do I expect to receive any interest.
5. This work is based on work carried out by myself and others under the supervision of Azimuth Geological Incorporated.

Dated this 15th day of March, 1988,



Larry R. Haynes, B.Sc., F.G.A.C.

7.0 REFERENCES

- Cook, D.L. and Westervelt, R.D. (1969). Geological and Geochemical Report - Lubra Claim Group, Nosebag Mtn. Area. B.C.M.M. Assessment Report 2509.
- Roddick, J.A. and Hutchinson, W.W. (1973). Pemberton (East Half) Map-Area, B.C. Canada Geol. Survey Paper 73-17.
- Woodsworth, G.T. and Roddick, J.A. (1977). Geology of the Pemberton Map-Area, Canada Geol. Survey Open File 482.

Appendix I
Cost Statement

COST STATEMENT

Wages and Benefits

Project Geologist	2 days @ \$275.00/day (November 14, 17, 1987)	\$ 550.00
	1 day @ \$300.00/day (January 27, 1988)	\$ 300.00
Geologist	1.5 days @ \$200.00/day (November 13, December 8, 1987)	\$ 300.00
Technicians	6 days @ \$175.00/day (November 13, 14, 17; December 8, 1987)	\$ 1,050.00
	2 days @ \$200.00/day (January 27, 1988)	\$ 400.00

Food and Accommodation

Food	12.5 days @ \$30.00/day (November 13, 14, 17; December 8, 12, 1987; January 27, 1988)	\$ 375.00
Accommodation	12.5 days @ \$25.00/day	\$ 312.50

Consultant Services

J.B. Richards, P.Eng.		\$ 454.00
James Weick	4 days @ \$390.00/day	\$ 1,560.00

Transportation

Truck Rental	3 days @ \$75.00/day	\$ 225.00
	4 days @ \$40.00/day	\$ 160.00
Helicopter		\$ 3,756.66
Shipping Costs		\$ 100.00

<u>Supplies, Maps, Equipment Rentals</u>		\$ 275.00
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COST STATEMENT (cont'd)

Assays and Analysis

Rocks	8	@	\$19.25	\$	184.00
	34	@	\$14.75	\$	501.50
Soils	19	@	\$12.50	\$	237.50
	1	@	\$6.50	\$	6.50
Silts	2	@	\$12.50	\$	25.00
HMC	4	@	\$13.25	\$	52.00

Report Preparation

\$ 2,500.00

Total Cost

\$13,324.66

Distribution of Costs

Statement of Work Filed	December 17, 1987	\$10,777.26
Statement of Work Filed	March 7, 1988	\$ 2,547.40

Appendix II
Analytical Procedures

**ACME ANALYTICAL LABORATORIES LTD.**

Assaying & Trace Analysis
852 E. Hastings St. Vancouver, B.C. V6A 1R6
Telephone: 253-3158

1988

Acme Analytical continues to update with mass spectrographic analysis which is now operational. In general, mass spec offers detection limits which are at least 100 fold lower than ICP or flame AA. These detection limits are comparable to graphite furnace AA, but the mass spec can analyze up to 60 elements simultaneously.

Acme has pioneered low cost multi-element ICP analysis which has better detection and precision than AA. Mass spec will further expand the range of elements and isotopes available to mineral exploration programs.

SPACE

Total laboratory, sample preparation and sample storage has been expanded to 30,000 square feet, with purchase another building.

EQUIPMENT

1. Our ICP system has been expanded, and a fifth unit has been purchased which will allow us to determine up to 45 elements simultaneously.
2. AA spectrophotometers have been increased to 8.
3. Sample preparation, weighing and dissolution facilities have been increased.
4. A LECO Induction Furnace has been installed for determining Carbon and Sulfur simultaneously in geological and metallurgical samples.
5. An UA3 Laser Fluorometer from Scintrex is now used for determination of U in water to .01 ppb.
6. Two ICP mass spectrographs.

TECHNOLOGY

1. Fire Assay for Ag, Au, Pt, Pd, Rh, Ru & Ir; the precious metal bead can be analysed by gravimetric, AA, ICP or Mass spec.
2. ICP multi element packages for water, geochem and assay programs have been developed.
3. Lower detection limits for some elements have been achieved by graphite furnace AA.

TECHNICAL ACHIEVEMENTS

1. Background corrected Atomic Absorption analysis of Ag and Au since 1971.
2. Best proven precision, accuracy and price for MoS2 assays in North America.
3. Pioneered geochemical analysis by ICP at or to better detection limits than AA, including Ag, As, U, Th and V.
4. First to offer Mass spectrographic scan analysis.

PROVEN PERFORMANCE

Our logistical and technical performance for our clients has been demonstrated on the Gambler, Copoose Lake, Trout Lake, Blackdown, Red Mountain, Carolin, Cirque, Minago Silver, Quessnel River, Terra Swede, Mosto and other major projects. We are capable of handling up to 2500 samples per day.

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Telephone: 253-3158

Regular Assay

Aluminum (Al)	\$ 7.00	Moisture (H2O)	\$ 5.00
Antimony (Sb)	7.00	Molybdenum (Mo)	7.00
Arsenic (As)	7.00	Molybdenum Sulfide (MoS2)	9.00
Barium (Ba)	7.00	Niobium (Nb)	10.00
Bismuth (Bi)	7.00	Nickel (Ni)	7.00
Boron (B)	7.00	Nickel (Non-sulfide)	9.00
Cadmium (Cd)	7.00	Palladium (Pd)	10.00
Calcium (Ca)	7.00	Phosphorus (P)	7.00
Carbon (Total) (C)	9.00	Platinum (Pt)	10.00
Carbon (Graphitic)*	10.00	Potassium (K)	7.00
Carbon plus Sulfur (Total)*	11.00	Rhodium (Rh)	10.00
Cerium (Ce)	10.00	Rubidium (Rb)	7.00
Chromium (Cr)	7.00	Selenium (Se)	10.00
Cesium (Cs)	10.00	Silica (SiO2)	7.00
Cobalt (Co)	7.00	Silver (Ag)	7.00
Copper (Cu)	7.00	Silver (Fire Assay)	8.50
Copper (non-sulfide)	8.00	Sodium (Na)	7.00
Europium (Eu)	20.00	Specific Gravity*	7.00
Fluorine (F)	7.00	Strontium (Sr)	7.00
Gallium (Ga)	7.00	Sulfur (Total)*	9.00
Germanium (Ge)	7.00	Sulfur (Sulfate) (S)	10.00
Gold (Au)	7.00	Tantalum (Ta)	7.00
Gold (Fire Assay)	8.50	Tellurium (Te)	10.00
Gold plus Silver (Fire Assay)	12.00	Thallium (Tl)	10.00
Indium (In)	7.00	Thorium*	7.00
Iron (Total) (Fe)	7.00	Tin (Sn)	7.00
Iron (Ferrous)*	10.00	Titanium (Ti)	7.00
Lanthanum (La)	7.00	Tungsten (W)	7.00
Lithium (Li)	7.00	Uranium (U)	7.00
Lead (Pb)	7.00	Vanadium (V)	7.00
Loss on Ignition (LOI)	2.00	Yttrium (Y)	7.00
Magnesium (Mg)	7.00	Zinc (Zn)	7.00
Manganese (Mn)	7.00	Zirconium*	7.00
Mercury*	7.00		

* Minimum 5 samples per batch

Other elements by Mass Spec. on request.

Multi-Element Assay Price

Arsenic, Antimony, Bismuth, Cadmium, Cobalt, Copper, Gold, Iron, Lead, Manganese, Molybdenum, Nickel, Silver, Thorium, Uranium, Zinc.

Price : First element \$7.00 Each Additional \$3.00 All 16 elements \$22.00

Whole Rock Assay Prices

SiO2, Al2O3, Fe2O3, CaO, MgO, Na2O, K2O, MnO, TiO2, P2O5, Cr2O3, LOI.

Price : First oxide \$7.00 Each Additional \$3.50 All 12 \$9.00

Volume Discounts Available.

Special Fire Assay Prices

Gold, Silver, Platinum, Palladium, Rhodium \$22.00
Placer conc. for total precious metal or Gold \$15.00

**ACME ANALYTICAL LABORATORIES LTD.**

Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
Telephone: 253-3158

GEOCHEMICAL LABORATORY METHODOLOGY & PRICES - 1988**Sample Preparation**

S80	Soils or silts up to 2 lbs drying at 60 deg.C and sieving 30 qms -80 mesh (other size on request)	1.85
S3	Saving part or all reject	.45
S20K	Soils or silts - drying at 60 deg.C and sieving -20 mesh & pulverizing (other mesh size on request.)	2.00
SF	Soils or silts - drying at 60 deg.C pulverizing (approx. 100 qms)	1.50
RP100	Rocks or cores - crushing to -3/16" up to 10 lbs, then pulverizing 1/2 lb to -100 mesh (98%)	3.00
Cr	Surcharge crushing over 10 lbs	.25/lb
2Px	Surcharge for pulverizing over 1/2 lb	1.75/lb
RPS100	Same as RP100 except sieving to -100 mesh and saving +100 mesh (200qms)	3.75
RPS100 1/2	Same as above except pulverizing 1/2 the reject - additional	2.50/lb
RPS100 A	Same as above except pulverizing all the reject - additional	2.50/lb
COP	Compositing pulps - each pulp Mixing & pulverizing	.50 1.50
HM	Heavy mineral separation - S.G.2.96 + wash -20 mesh	12.00
V1	Drying vegetation and pulverizing 50 qms to -80 mesh	3.00
V2	Ashing up to 1 lb wet vegetation at 475 deg.C	2.00
H1	Special Handling	17.00/hr

Sample Storage

Rejects - Approx. 2 lbs of rock or total core are stored for three months and discarded unless claimed.

Pulps are retained for one year and discarded unless claimed.

Additional storage - for 3 years \$10.00/1.2 cu.ft. box
or 15cents/sample pulp
or 5cents/sample soil

Supplies

Soil Envelopes	4" x 6"	\$125.00/thousand
Soil Envelopes	4" x 6" with gusset	\$140.00/thousand
Plastic Bags	12" x 13" 4 ml	\$10.00/hundred
Plastic Bags	12" x 20" 6 ml	\$20.00/hundred
Ties		\$2.00/hundred
Assay Tags		N/C
10% HCl		\$5.00/liter
Gropping bottles		\$1.00/each
In Test	A & B	\$12.00/each liter

Conversion Factors

1 Troy oz = 31.10 g
1 oz/ton = 34.3 ppm = 34.3 g/tonne = 34,300 ppb
1 % = 10,000 ppm

**ACME ANALYTICAL LABORATORIES LTD.**

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Telephone: 253-3158

GEOCHEMICAL ANALISES - Rocks and Soils**Group 1 Digestion**

.50 gram sample is digested with 3 ml 1-1-2 HCl-HNO3-H2O at 95 deg.C for one hour and is diluted to 10 ml with water. This leach is near total for base metals, partial for rock forming elements and very slight for refractory elements. Solubility limits Ag, Pb, Sb, Bi, W for high grade samples.

Group 1A - Analysis by Atomic Absorption.

Element	Detection	Element	Detection	Element	Detection
Antimony	2 ppm	Copper	1 ppm	Strontium	1 ppm
Bismuth	2 ppm	Iron	0.01 %	Nickel	1 ppm
Cadmium	0.1 ppm	Lead	2 ppm	Silver	0.1 ppm
Chromium	1 ppm	Lithium	2 ppm	Vanadium	2 ppm
Cobalt	1 ppm	Manganese	5 ppm	Zinc	2 ppm

First Element \$2.25 Subsequent Element \$1.00

Group 1B - Hydride generation of volatile elements and analysis by ICP.

This technique is unsuitable for sample grading over 1% Ni or Cu.

Element	Detection	Element	Detection
Asenic	0.1 ppm	Germanium	0.2 ppm
Antimony	0.1 ppm	Selenium	0.2 ppm
Bismuth	0.1 ppm	Tellurium	0.3 ppm

First Element \$4.25 All Elements \$5.00

Group 1C - Hg Detection limit - 5 ppb Price \$2.50

Hg in the solutions are determined by cold vapour AA using a F & J scientific Hg assembly. The aliquots of the extract are added to a stannous chloride/hydrochloric acid solution. The reduced Hg is swept out of the solution and passed into the Hg cell where it is measured by AA.

Group 1D - ICP Analysis, same digestion

Element	Detection
Ag	0.1 ppm
Cd, Co, Cr, Cu, Mn, Mo, Ni, Sr, Zn	1 ppm
As, Au, B, Ba, Bi, La, Pb, Sb, Th, V, W	2 ppm
U	5 ppm
Al, Ca, Fe, K, Mg, Na, P, Ti	0.01 %

Any 2 elements \$3.25
5 elements \$4.50
10 elements \$5.50
All 30 elements \$6.25

Group 1E - Analysis by ICP/MS

Element	Detection
Ca, Ce	0.1 ppm
Au, Bi, Cd, Hg, In, Ir, Os, Re, Rh, Sb, Te, Th, Tl, U	0.1 ppm

All Elements 15.00 (minimum 20 samples per batch or \$15.00 surcharge)

Hydro Geochemical Analysis

Natural water for mineral exploration

26 element ICP - Mo, Cu, Pb, In, Ag, Co, Ni, Mn, Fe, As, Sr, Cd, V, Ca, P, Li, Cr, Hg, Tl, Bi, Al, Na, K, Ce, Ba, Bi \$8.00

F by Specific Ion Electrode - detection 20 ppb \$3.75
U by UAs3 - detection .01 ppb 5.00
pH .1 pH 1.50

* Minimum 20 samples or \$5.00 surcharge for ICP or AA and \$15.00 surcharge for ICP/MS. All prices are in Canadian Dollars



ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
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Telephone: 253-3158

Shipping of Samples

All shipments from outside Canada should be marked "GEOCHEMICAL SAMPLES FOR ANALYSIS - NO COMMERCIAL VALUE".

Free Custom Clearance on invoices of \$150.00 or more.

By Air Freight:

Acme Analytical
c/o Cole McCubbin
Vancouver, B.C.

By Surface - US Customers:
First Class Mail or UPS - under 30 lbs
- Bus (Canadian Customers)

Discounts by Contract.

Turnaround time is generally around four days, and can be 24 hours by special contract.

Free pick up from downtown Vancouver and Bus Depot.

Field Services

Portable crushers and core splitters are available at reasonable rental rates.
Cut your shipping cost on large drilling programs.

All prices subject to change without notice.

Special Service

Modem data transfer: 5 cents/sample - minimum \$10.00

Statistical Analysis : At Cost.

- SD
- Mean
- Median
- Frequency Plot
- Grid Coordinate Contour Plot

Data disks - \$6.00

Apple II - Require Acme's read programs

IBM-PC - ASCII or Lotus 1,2,3.



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Metal Analysis

ASSAYING and GEOCHEMICAL ANALYSES

24 hr. per day operation

Effective: March 1, 1988

ACME ANALYTICAL LABORATORIES LTD.
852 EAST HASTINGS STREET
VANCOUVER, B.C., CANADA
V6A 1R6

TELEPHONE: (604) 253-3158
COMPUTER DATA LINE: (604) 251-1011
FAX: (604) 253-1716

Clarence Leong, Certified B.C. Assayer
Bowling Tsang, BSc, Lab Manager
Raymond Sam, BSc, Manager

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Group 2 - Geochemical Analysis by Specific Extraction and Instrumental Techniques

Element	Method	Detection	Price
Barium	0.100 gram samples are fused with .6 gm LiBO2 dissolved in 50 ml 5% HNO3 and analysed by ICP. (Other whole rock elements are also determined)	10 ppm	\$3.75
Carbon	LECO (total as C or CO2)	.01 %	5.75
Carbon+Sulfur	Both by LECO	.01 %	6.50
Carbon (Graphite)	HCl leach before LECO	.01 %	8.00
Chromium	0.50 gram samples are fused with 3 gm Na2O2 dissolved in 50 ml 20% HCl, analysed ICP.	5 ppm	4.00
Fluorine	0.25 gram samples are fused with NaOH; leached solution is adjusted for pH and analysed by specific ion electrode.	10 ppm	4.50
Sulphur	LECO (Total as S)	.01 %	5.50
Sulphur Insoluble	LECO (After 5% HCl leach)	.01 %	8.00
Tin	1.00 gram samples are fused with NH4I. The sublimed iodine is leached with 5 ml 10% HCl, and analysed by Atomic Absorption.	1 ppm	3.50
Tungsten	.50 gram samples are fused with Na2O2 dissolved in 20 ml H2O, analysed by ICP.	1 ppm	3.50

Group 3 - Geochemical Noble Metals

Element	Method	Detection	Price
Au*	10.0 gram samples are ignited at 600 deg.C, digested with hot aqua regia, extracted by MIBK, analysed by graphite furnace AA.	1 ppb	\$ 4.50
Au** Pd, Pt, Rh	10.0 gram samples are fused with a Au Inquart with fire assay fluxes. After cupellation, the core bead is dissolved and analysed by AA or ICP/MS.	1 ppb 2 ppb	6.00 -first element 1.50 -per additional 10.00 -for All 4.
Larger samples - 20 gms add \$1.50 30 gms add \$2.50			

Group 4A - Geochemical Whole Rock Assay

0.200 gram samples are fused with LiBO2 and are dissolved in 100 ml 5% HNO3.
SiO2, Al2O3, Fe2O3, CaO, MgO, Na2O, K2O, MnO, TiO2, P2O5, Cr2O5, LOI + Ba by ICP.
Price: \$3.75 first metal \$1.00 each additional \$9.00 for All.

Group 4B - Trace elements

Element	Detection	Analysis	Price
Co, Cu, Ni, Zn, Sr	10 ppm	ICP	\$3.75 first element or
Ce, Nb, Ta, Y, Ir	20 ppm	ICP	\$1.00 additional to 4A \$6.00 for All.

Group 4C - analysis by ICP/MS.

Be, Rb, Y, Ir, Nb, Sn, Cs, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Ta, Yb, Lu, Hf, Ta, W, Th, U

Detection: 1 to 5 ppm Price: \$20.00 for All.

* Minimum 20 samples or \$5.00 surcharge for ICP or AA and \$15.00 surcharge for ICP/MS.
All prices are in Canadian Dollars

**ACME ANALYTICAL LABORATORIES LTD.**

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Suggestions for Effective use of Analytical Services**1. General Sampling**

- A. **Rocks** - In general 1/2 to 2 lb of sample is required. Large boulders should be broken down to chip size with a 20 lb sledge hammer. A representative sample is then taken from these chips. The lab will crush, split and pulverize.
- B. **Cores** - Drill cores should be split into halves for assaying.
- C. **Soils** - The organic "A" horizon gives good base metal responses. Supply about one cup of material in a soil or paper envelope. The soil is treated in one of three methods after drying :-
1) -10 mesh sieving (standard).
2) -30 mesh sieving + pulverizing.
3) pulverizing the whole sample.

Samplers must not wear any jewelry.

2. Shipping

- A. **Local and Within Canada** - use Greyhound or Pacific Stage Lines. For large drill programs use a truck line.
- B. **U.S. Customers** - for surface transport use UPS or mail - under 30 lbs - Delta Airlines usually lowest rates.

All freight shipments are addressed to :-

Acme Analytical Laboratories Ltd.,
c/o Cole McCubbin
Vancouver, B.C.

Shipments from the U.S. should be labelled "Geological Samples for Analysis - No Commercial Value".

3. Suggested Geochemical Analysis

- A. **Rocks with No Visible Mineralization** - 30 element ICP + geochemical Au.
- B. **Rocks with High Sulphides** - 16 element ICP Assay.
- C. **Cores** - assays for elements of mineralization and possible 30 Element ICP.
- D. **Soils** - 30 element ICP + geochemical Au.

4. Samples with Possible Native Gold

For rocks and cores with nugget or native gold, request that the total sample be pulverized and sieved on a 100 mesh screen. Two fire assays are then required for each sample: one on the entire +100 mesh fraction for any possible native gold and one on the -100 mesh. (I.A.T.)

Pan or sluice concentrates are best treated by cyclone concentration and fire assay for total Au.

Appendix III
Analytical Results - H.M.C. Samples

ARMENO RESOURCES PROJECT-87-08-01 FILE # 87-6151

Page 8

SAMPLE#	MO	CU	PB	ZN	AG	NI	CD	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
WC-001 HMC	1	30	6	67	.4	38	10	606	3.60	9	5	ND	4	49	1	2	2	78	.98	.066	14	77	1.19	198	.21	4	2.58	.21	.48	8	6
WC-002 HMC	1	20	4	61	.1	30	8	546	3.13	6	5	ND	2	26	1	2	2	50	.40	.038	6	46	1.13	84	.17	2	1.86	.08	.17	1	2
WC-003 HMC	2	30	6	70	.4	39	8	435	3.63	13	5	ND	3	48	1	2	2	74	.83	.062	7	71	1.32	214	.17	2	2.69	.18	.50	1	73
WC-004 HMC	2	42	9	78	.3	46	11	655	3.73	11	5	ND	2	28	1	2	2	69	.72	.059	7	65	1.41	181	.21	2	2.30	.08	.45	1	10

Appendix IV
Analytical Results - Silt Samples

ARMENO RESOURCES PROJECT-87-08-01 FILE # 87-4151

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE I	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA I	P I	LA PPM	CR PPM	MG I	BA PPM	TI I	B PPM	AL I	NA I	K I	W PPM	AUT PPB
WC-001 SILT	2	70	6	126	.2	95	18	1045	4.34	20	5	ND	1	54	1	2	3	71	1.25	.085	7	91	1.37	140	.18	6	2.36	.02	.33	2	1
WC-002 SILT	1	58	6	122	.1	45	16	813	5.18	22	5	ND	3	26	1	2	4	58	.52	.071	5	51	1.57	84	.14	6	2.70	.02	.21	1	3

Appendix V
Analytical Results - Soil Samples

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEC. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: SOIL AUX ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: NOV 24 1987

DATE REPORT MAILED: NOV 27/87

ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

AZIMUTH GEOLOGICAL PROJECT-WHITE CAP File # 87-5878

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	AUT
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	I	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	I	I	PPM	PPM	I	PPM	I	PPM	I	I	I	PPM	PPB
1+00N 3+00W	5	69	8	126	.1	57	21	746	3.28	58	5	ND	1	18	1	2	2	57	.20	.044	5	40	.70	188	.13	2	2.15	.04	.13	4	83
1+00N 2+75W	6	113	10	205	.6	92	21	609	4.34	55	5	ND	4	16	1	2	2	80	.24	.038	9	83	1.32	290	.18	3	3.98	.03	.24	5	80
1+00N 2+50W	4	73	16	151	.3	65	18	1487	3.97	60	5	ND	3	19	1	2	2	80	.20	.038	7	73	1.24	422	.18	2	3.14	.04	.26	5	50
1+00N 2+25W	4	50	10	169	.3	63	19	1267	4.44	36	5	ND	3	22	1	2	2	87	.24	.038	7	85	1.20	337	.19	2	3.04	.03	.16	1	46
1+00N 2+00W	4	33	12	122	.5	43	10	467	3.57	52	5	ND	2	10	1	2	2	69	.12	.023	6	55	.91	146	.18	2	2.19	.03	.10	3	32
1+00N 1+75W	5	25	14	107	.3	40	10	318	4.06	96	5	ND	3	11	1	2	2	85	.15	.029	6	61	.90	171	.21	2	2.34	.03	.10	4	55
1+00N 1+50W	3	60	9	122	.2	85	16	317	4.69	103	5	ND	2	13	1	2	2	103	.15	.034	5	113	1.54	113	.22	2	3.69	.03	.13	2	25
1+00N 1+20W	4	121	24	157	1.5	36	16	549	19.78	30416	5	ND	8	24	1	5	15	50	.33	.118	13	27	.45	313	.07	2	2.20	.02	.08	5	270
1+00N 1+00W	4	64	11	169	.3	40	18	445	6.57	802	5	ND	3	13	1	2	2	142	.41	.170	8	69	1.97	202	.31	2	3.38	.03	.45	5	51
1+00N 0+75W	4	34	9	121	.4	39	15	710	4.46	132	5	ND	3	18	1	2	2	88	.25	.067	6	53	1.14	208	.23	2	2.45	.04	.20	1	53
1+00N 0+50W	2	30	6	107	.2	55	14	358	3.81	96	5	ND	2	14	1	2	2	75	.18	.049	5	72	1.02	116	.19	2	2.55	.03	.14	3	18
1+00N 0+25W	3	27	13	98	.1	40	13	327	4.02	75	5	ND	2	17	1	2	2	87	.19	.048	5	62	1.01	191	.23	2	2.30	.03	.17	3	4
1+00N 0+00W	3	50	8	125	.2	67	17	402	4.53	87	5	ND	3	20	1	2	2	87	.30	.083	7	72	1.21	226	.20	2	2.80	.03	.19	3	7
DN 3+00W	6	59	28	199	.4	68	19	1624	4.06	113	5	ND	2	31	2	2	5	70	.34	.052	7	69	1.05	320	.14	2	2.58	.03	.27	2	50
DN 2+75W	4	44	16	117	.3	55	16	1110	3.79	44	5	ND	1	23	1	2	2	79	.36	.036	5	74	1.08	227	.16	2	2.52	.04	.16	4	55
DN 2+50W	8	69	15	129	.1	70	19	1104	4.61	250	5	ND	2	14	1	2	2	88	.19	.048	6	70	1.22	202	.18	3	3.16	.03	.24	4	77
DN 2+40W	13	109	19	118	1.5	18	13	313	8.85	10328	5	3	4	10	1	19	11	15	.11	.070	7	9	.10	57	.01	6	.59	.01	.04	1	2730
DN 2+25W	9	60	10	154	.4	60	19	1485	5.21	421	5	ND	3	35	1	2	2	96	.38	.051	6	74	1.39	362	.22	2	3.03	.03	.36	5	94
DN 2+00W	5	57	15	185	.3	33	17	578	6.23	932	5	ND	4	21	1	2	3	112	.30	.097	7	59	1.77	256	.30	2	3.40	.03	.51	4	93
STD C/AU-9	19	57	38	133	7.1	68	28	1029	4.05	42	21	7	38	49	18	18	19	55	.48	.085	37	58	.87	176	.08	31	1.91	.07	.13	12	49

ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: DEC 7 1987
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE (604) 253-3158 FAX (604) 253-1716 DATE REPORT MAILED: *Dec. 10/87.*

ASSAY CERTIFICATE

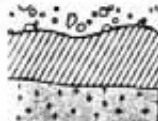
- SAMPLE TYPE: Pulp AU** BY FIRE ASSAY FROM 1/2 A.T.

ASSAYER: *D. Toye*. DEAN TOYE, CERTIFIED B.C. ASSAYER

ARMENO RESOURCES PROJECT-WHITE CAP File # 87-5878 R

SAMPLE#	AU** oz/t
ON 2+40W	.076

Appendix VI
Analytical Results - Rock Samples



REPORT: 127-7434 (COMPLETE)

REFERENCE INFO:

CLIENT: ARMENO RESOURCES

SUBMITTED BY: J. WEICK

PROJECT: NONE GIVEN

DATE PRINTED: 15-OCT-87

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Cu Copper	8	1 PPM	HNO3-HCL HOT EXTR	PLASMA
2	Pb Lead	8	5 PPM	HNO3-HCL HOT EXTR	PLASMA
3	Zn Zinc	8	1 PPM	HNO3-HCL HOT EXTR	PLASMA
4	Mo Molybdenum	8	1 PPM	HNO3-HCL HOT EXTR	PLASMA
5	Co Cobalt	8	1 PPM	HNO3-HCL HOT EXTR	PLASMA
6	Ni Nickel	8	1 PPM	HNO3-HCL HOT EXTR	PLASMA
7	Cr Chromium	8	1 PPM	HNO3-HCL HOT EXTR	PLASMA
8	Mn Manganese	8	1 PPM	HNO3-HCL HOT EXTR	PLASMA
9	Cd Cadmium	8	1 PPM	HNO3-HCL HOT EXTR	PLASMA
10	Ag Silver	8	0.5 PPM	HNO3-HCL HOT EXTR	PLASMA
11	Bi Bismuth	8	2 PPM	HNO3-HCL HOT EXTR	PLASMA
12	Fe Iron	8	0.05 PCT	HNO3-HCL HOT EXTR	PLASMA
13	V Vanadium	8	1 PPM	HNO3-HCL HOT EXTR	PLASMA
14	As Arsenic	8	5 PPM	HNO3-HCL HOT EXTR	PLASMA
15	Te Tellurium	8	10 PPM	HNO3-HCL HOT EXTR	PLASMA
16	U Uranium	8	10 PPM	HNO3-HCL HOT EXTR	PLASMA
17	W Tungsten	8	10 PPM	HNO3-HCL HOT EXTR	PLASMA
18	Sb Antimony	8	5 PPM	HNO3-HCL HOT EXTR	PLASMA
19	Se Selenium	8	5 PPM	HNO3-HCL HOT EXTR	PLASMA
20	Sn Tin	8	10 PPM	HNO3-HCL HOT EXTR	PLASMA
21	Au Gold - Fire Assay	8	5 PPB	FIRE-ASSAY	Fire Assay AA

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	8	2 -150	8	CRUSH,PULVERIZE -150	8

REPORT COPIES TO: AZIMUTH GEOLOGICAL
ARMENO RESOURCES
MR. J WEICK

INVOICE TO: ARMENO RESOURCES



REPORT: 127-7434

PROJECT: NONE GIVEN

PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Co PPM	Ni PPM	Cr PPM	Mn PPM	Cd PPM	Ag PPM	Bi PPM
R2 JW-001		43	9	40	2	6	24	114	611	<1	<0.5	<2
R2 JW-002		21	10	43	21	7	14	123	455	<1	<0.5	17
R2 JW-003		13	19	124	1	3	8	177	293	<1	1.5	11
R2 JW-004		127	<5	67	1	21	44	119	248	<1	<0.5	2
R2 JW-005		23	25	14	8	4	11	217	434	<1	<0.5	5
R2 JW-006		11	23	34	7	3	6	160	330	<1	1.3	19
R2 JW-007		26	10	47	26	7	9	99	358	<1	<0.5	4
R2 JW-008		18	23	14	5	4	17	196	241	<1	0.6	<2



REPORT: 127-7434

PROJECT: NONE GIVEN

PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	Fe PCT	V PPM	As PPM	Te PPM	U PPM	W PPM	Sb PPM	Se PPM	Sn PPM	Au PPB
R2 JW-001		1.97	62	12	<10	<10	<10	<5	<5	<10	<5
R2 JW-002		2.28	62	796	<10	<10	<10	<5	<5	<10	80
R2 JW-003		1.31	27	>2000	<10	<10	<10	<5	<5	<10	240
R2 JW-004		3.95	170	63	<10	<10	<10	<5	<5	<10	<5
R2 JW-005		1.31	22	18	<10	<10	<10	<5	14	<10	<5
R2 JW-006		1.39	19	1800	22	<10	<10	<5	<5	<10	60
R2 JW-007		2.52	44	753	<10	<10	<10	<5	<5	<10	30
R2 JW-008		0.91	14	40	<10	<10	<10	<5	10	<10	<5

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE (604) 253-3158 FAX (604) 253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEC. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: Rock Chips AU# ANALYSIS BY FA#AA FROM 10 GN SAMPLE.

DATE RECEIVED: DEC 18 1987

DATE REPORT MAILED: Dec 24/87 ASSAYER: *D. Toyer* DEAN TOYE, CERTIFIED B.C. ASSAYER

ARMEND RESOURCES PROJECT-87-08-01 File # 87-6242

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	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
MCA-001	7	54	42	110	.3	27	8	733	2.88	2	5	ND	2	10	1	2	2	69	.78	.030	4	36	.98	496	.13	2	1.45	.07	.91	2	1
MCA-002	6	74	5	82	.3	31	7	355	2.41	3	5	ND	5	25	1	2	2	32	.58	.021	3	22	.89	224	.08	19	1.58	.07	.67	1	2
TWC-001	6	56	2	46	.2	24	7	280	2.22	7	5	ND	4	6	1	2	2	65	.15	.016	7	40	.82	377	.13	2	1.02	.05	.58	1	1
TWC-002	2	60	2	35	.2	12	2	159	1.34	3	5	ND	4	6	1	2	2	9	.01	.010	3	7	.46	197	.03	2	.69	.01	.26	1	1

Appendix VII
Analytical Results - Underground Samples

ARMENO RESOURCES PROJECT-88.01.01 FILE # 88-0280

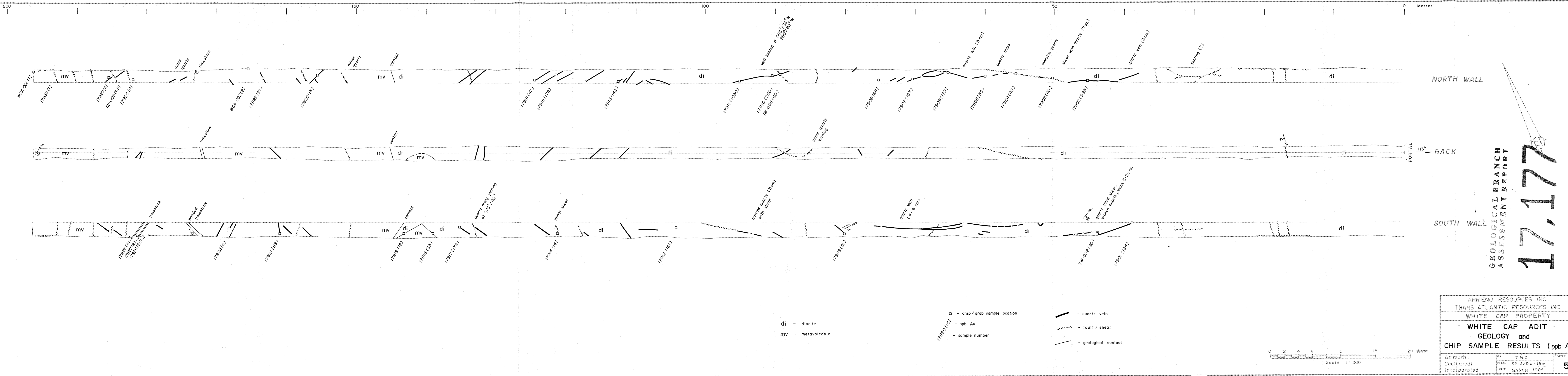
SAMPLE#	NO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W	AUT
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPM	
017901	67	26	9	44	.9	6	7	890	2.21	1121	5	ND	2	15	1	8	23	31	.38	.046	6	11	.32	86	.01	3	.92	.01	.22	18	139
017902	6	23	15	13	2.9	3	3	186	1.27	537	5	ND	1	4	1	3	178	6	.07	.012	2	3	.06	22	.01	2	.20	.01	.04	1	985
017903	6	46	9	84	.5	11	9	594	3.75	1067	5	ND	2	44	1	9	2	60	2.08	.092	8	23	1.31	145	.07	2	2.21	.03	.68	1	40
017904	1	3	6	33	.6	2	1	82	.38	528	5	ND	1	6	1	3	7	1	.26	.007	2	2	.02	12	.01	11	.10	.01	.04	1	35
017905	6	22	14	50	1.4	7	5	273	1.98	2186	5	ND	1	55	1	8	21	5	1.34	.045	5	3	.29	23	.01	5	.34	.01	.11	2	203
017906	10	26	6	64	1.1	8	6	320	2.38	1997	5	ND	2	88	1	11	2	5	2.10	.053	6	4	.43	26	.01	5	.43	.02	.12	1	170
017907	11	17	4	37	.5	5	5	524	1.82	1390	5	ND	1	117	1	6	2	6	3.18	.039	4	5	.36	27	.01	2	.41	.02	.10	1	103
017908	24	21	5	50	.2	6	4	317	1.90	1591	5	ND	1	116	1	7	2	6	2.20	.046	4	4	.55	34	.01	3	.32	.02	.13	1	68
017909	19	22	4	33	.2	5	4	297	1.65	841	5	ND	1	80	1	6	2	5	2.26	.036	5	5	.30	21	.01	3	.34	.02	.08	2	51
017910	6	32	104	39	12.6	4	5	226	2.13	6813	5	ND	1	32	1	12	131	1	1.12	.011	2	3	.03	18	.01	2	.14	.01	.04	1	250
017911	20	21	215	434	26.7	5	7	197	3.09	19262	5	ND	1	41	9	18	339	3	1.05	.012	2	3	.22	20	.01	13	.28	.01	.07	22	1030
017912	202	12	10	78	.7	6	5	327	2.54	19170	5	ND	1	65	1	3	2	4	1.64	.026	3	3	.36	28	.01	10	.30	.01	.11	7	161
017913	4	26	9	112	.9	8	6	664	2.50	8159	5	ND	1	147	1	4	2	4	4.20	.063	5	4	.46	39	.01	3	.38	.02	.16	1	143
017914	2	20	4	74	.3	7	6	423	2.75	56	5	ND	1	44	1	2	3	42	2.36	.050	5	16	.83	152	.10	3	1.19	.04	.51	1	14
017915	1	21	4	51	.3	7	5	322	2.17	996	5	ND	1	41	1	2	2	26	1.87	.044	4	11	.52	99	.05	3	.84	.03	.30	1	39
017916	1	126	12	28	.9	20	18	318	4.38	186	5	ND	1	40	1	3	15	3	1.92	.028	3	3	.18	22	.01	2	.44	.02	.09	1	47
017917	1	9	77	13	9.8	2	1	170	.52	939	5	ND	1	17	1	26	82	1	.76	.002	2	2	.02	5	.01	13	.04	.01	.01	1	178
017918	1	31	5	82	.3	12	9	543	2.98	34	5	ND	1	61	1	2	4	36	2.04	.071	8	12	.72	111	.06	3	1.03	.04	.37	1	33
017919	7	38	16	46	.5	10	6	276	2.89	3	5	ND	1	27	1	2	2	48	.99	.042	3	17	.51	232	.12	2	1.24	.06	.51	1	12
017920	6	22	88	33	7.4	10	3	472	1.05	65	5	ND	1	60	1	2	33	20	4.50	.024	6	18	.42	98	.03	2	.68	.01	.27	1	15
017921	3	29	177	22	13.7	11	4	440	1.17	3	5	ND	1	29	1	2	150	11	1.90	.008	2	9	.24	87	.03	2	.45	.02	.21	1	88
017922	12	10	4	18	.2	12	1	338	.64	3	5	ND	1	25	1	2	5	12	1.82	.010	3	8	.25	53	.02	2	.36	.02	.15	1	21
017923	3	11	4	18	.1	10	1	564	.35	13	5	ND	1	907	1	2	2	1	28.88	.036	2	5	.47	156	.02	7	.27	.02	.04	1	8
017924	3	4	83	14	7.6	9	1	303	.54	1981	5	ND	1	433	1	2	8	1	38.83	.013	2	11	.17	32	.01	2	.14	.01	.05	1	4
017925	3	46	43	62	1.8	22	6	400	1.49	11	5	ND	2	53	1	2	5	13	3.26	.012	5	12	.45	102	.04	2	.85	.02	.39	1	9
017926	4	54	3	10	.1	13	1	892	2.03	13	5	ND	1	575	1	2	2	1	29.36	.047	2	6	.11	35	.01	36	.09	.01	.02	1	20
017927	2	19	4	15	.2	3	1	510	1.77	11	5	ND	1	308	1	2	2	1	29.07	.032	2	4	.10	41	.01	2	.12	.01	.05	4	2
017928	2	5	2	9	.1	6	1	326	.49	7	5	ND	1	381	1	2	2	1	39.11	.026	2	11	.13	31	.01	5	.10	.01	.03	1	4
017929	13	29	13	47	.7	14	4	459	1.42	3	5	ND	1	37	1	2	3	18	2.64	.019	5	13	.31	89	.04	6	.58	.02	.28	15	4
017930	1	85	3	26	.1	37	42	646	1.71	71	5	ND	1	23	1	2	2	13	1.61	.010	2	10	.35	98	.02	2	.52	.01	.17	1	1
STD C/AU-R	19	59	39	132	7.4	68	29	1136	4.15	43	22	7	37	48	18	19	24	56	.46	.087	39	58	.88	181	.07	35	1.91	.08	.14	11	490

Appendix VIII
Survey Data - White Cap Traverse 1

Whitecaps Property 1987 Traverse 1

STATION	AZIMUTH	SLOPE	CHAIN m.	HD.	DBL.	DLAT.	DDEP.	LATITUDE	DEPARTURE	ELEV.
LCP GOLOCAP 3 & 4								5621880.0	541450.0	2137.0
	89.0	-3.0	73.4	73.3	-3.8	1.3	73.3			
JBR19/10/87-1								5621881.3	541523.3	2133.2
	115.0	-13.0	20.4	19.9	-4.6	-8.4	18.0			
JBR19/10/87-2								5621872.9	541541.3	2128.6
	93.0	-22.0	111.5	103.4	-41.8	-5.4	103.2			
JBR19/10/87-3								5621867.5	541644.5	2086.8
	68.0	-29.0	25.7	22.5	-12.5	8.4	20.8			
JBR19/10/87-4								5621875.9	541665.4	2074.3
	131.0	-17.0	23.5	22.5	-6.9	-14.7	17.0			
JBR19/10/87-5								5621861.1	541682.3	2067.5
	119.0	-47.0	40.2	27.4	-29.4	-13.3	24.0			
JBR19/10/87-6								5621847.9	541706.3	2038.1
	81.0	-42.0	46.9	34.9	-31.4	5.5	34.4			
JBR19/10/87-7								5621853.3	541740.7	2006.7
	97.0	-40.0	31.9	24.4	-20.5	-3.0	24.3			
JBR19/10/87-8								5621850.3	541765.0	1986.2
	112.0	-35.0	33.9	27.8	-19.4	-10.4	25.7			
JBR19/10/87-9								5621839.9	541790.7	1966.7
	137.0	-19.0	52.1	49.3	-17.0	-36.0	33.6			
JBR19/10/87-10								5621803.9	541824.3	1949.8
	150.0	-32.0	13.7	11.6	-7.3	-10.1	5.8			
JBR19/10/87-11								5621793.8	541830.2	1942.5
	195.0	-10.0	22.6	22.3	-3.9	-21.5	-5.8			
JBR19/10/87-12								5621772.3	541824.4	1938.6
	117.0	-42.0	32.4	24.1	-21.7	-10.9	21.5			
JBR19/10/87-13								5621761.4	541845.8	1916.9
	112.0	-38.0	49.8	39.2	-30.7	-14.7	36.4			
JBR19/10/87-14								5621746.7	541882.2	1886.3
	102.0	-35.0	28.0	22.9	-16.1	-4.8	22.4			
JBR19/10/87-15								5621741.9	541904.7	1870.2
	129.5	-34.0	67.8	56.2	-37.9	-35.8	43.4			
JBR19/10/87-16(ON TRACK)								5621706.2	541948.0	1832.3
	290.0	.0	11.3	11.3	.0	3.9	-10.6			
JBR19/10/87-17(AT PORTAL)								5621710.0	541937.4	1832.3

OPEN TRAVERSE OF 685.1m



NORTH WALL

113° BACK

PORTAL

SOUTH WALL

GEOLOGICAL BRANCH ASSESSMENT REPORT

17.177

ARMENO RESOURCES INC. TRANS ATLANTIC RESOURCES INC. WHITE CAP PROPERTY		
- WHITE CAP ADIT - GEOLOGY and CHIP SAMPLE RESULTS (ppb Au)		
Azimuth Geological Incorporated	By T.H.C. WTS: 92-J/9w-16w Date MARCH 1988	Figure 5