ARIS SUMMARY SHEET

District Geologist, Prince George Off Confidential: 89.08.23

ASSESSMENT REPORT 18022 MINING DIVISION: Clinton

PROPERTY: AT
LOCATION: LAT 51 31 00 LONG 124 44 00
UTM 10 5708488 379728
NTS 092N10E
CLAIM(S): AT 3-4
OPERATOR(S): Berniolles, L.
AUTHOR(S): Berniolles, L.
REPORT YEAR: 1988, 23 Pages
COMMODITIES
SEARCHED FOR: Gold,Copper,Nickel
GEOLOGICAL
SUMMARY: Near the contact of Upper Cretaceous Coast Batholith and Triassic volcanics, copper-nickel-cobalt sulphides occur in zones of magmatic segregation within the batholith. In the Triassic volcanics, several veins and stockwork structures contain quartz-gold and copper mineralization.

WORK
DONE: Prospecting
PROS 800.0 ha
Map(s) - 1; Scale(s) - 1:5000
ROCK 46 sample(s) ;ME

RELATED
REPORTS: 16688
MINFILE: 092N 043

PROSPECTING REPORT

AT3, AT4 CLAIMS

CLINTON MINING DIVISION

NTS LOCATION 92N/10

LATITUDE 51° 31' LONGITUDE 124° 44'

OWNER/OPERATOR: LOUIS BERNIOLLES

AUTHOR OF REPORT: LOUIS BERNIOLLES

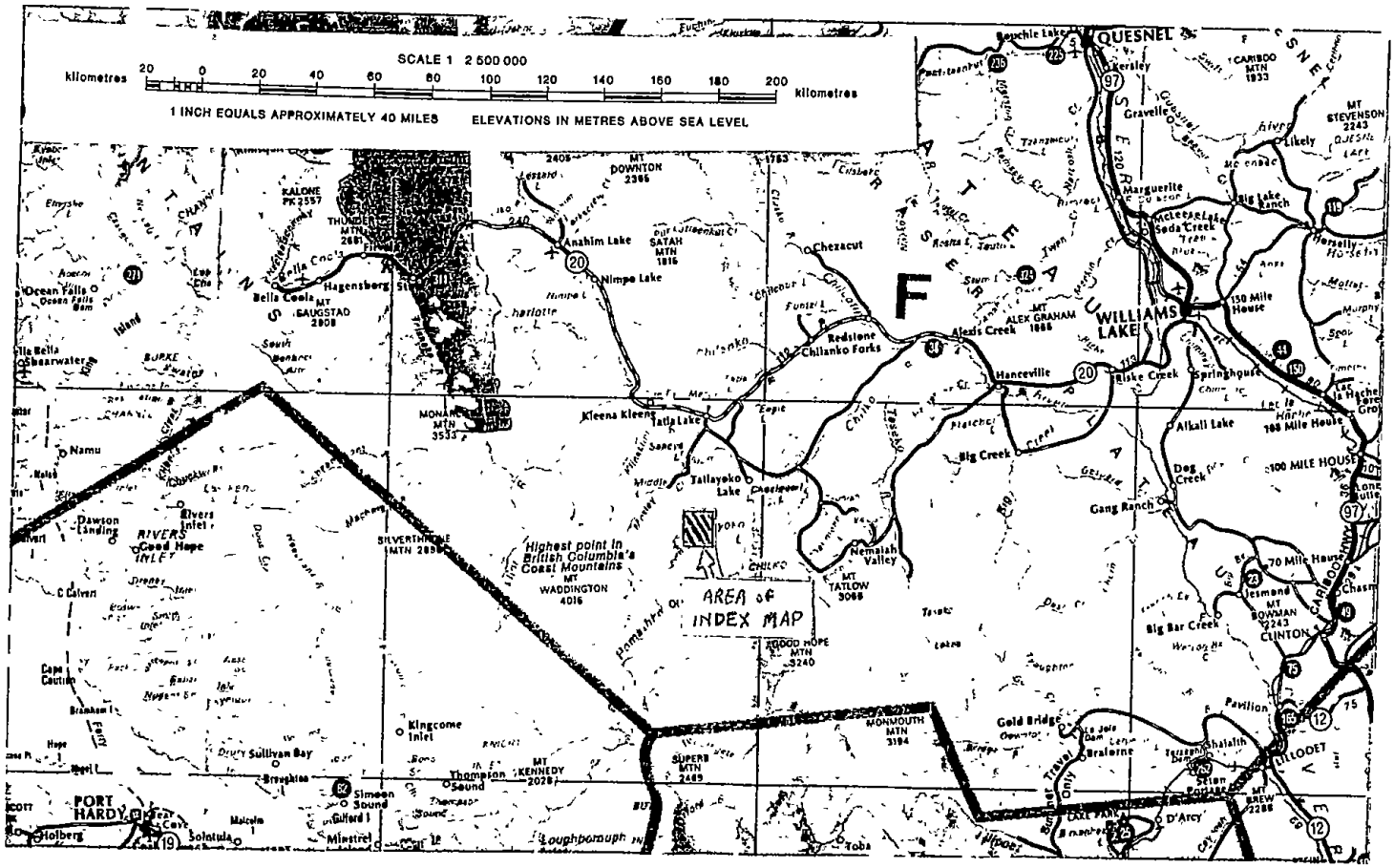
DATE SUBMITTED: NOVEMBER 17 1988

TABLE OF CONTENTS

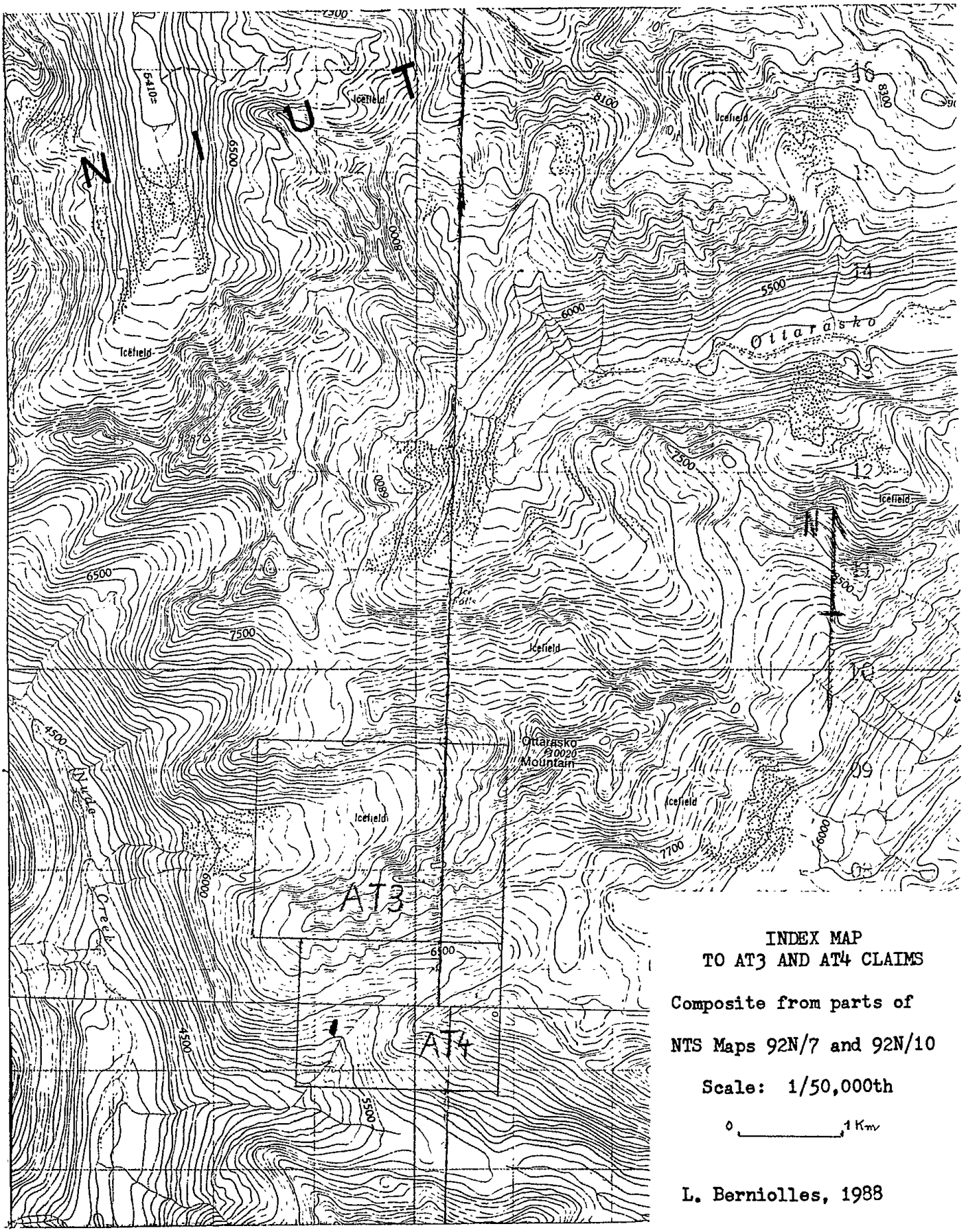
INTRODUCTION

Location of property. The AT3 and AT4 claims (group name AT34) cover 800 hectares (32 units), and are located on the western flank of Ottarasko Mountain, in the Niut Range of the Coast Mountains. The altitude on the claims varies between 4900 and 9500 feet, and the terrain which is extremely rugged, is partly overlain by a glacier.

Access to the claim. The Niut Range is located in the Western Chilcotin region; Tatla Lake, the local center for services, is situated 225 kms west of Williams Lake on Highway 20. In Tatla Lake meals and rooms can be had at the Graham Inn, and a helicopter charter service (Whitesaddle Air Services) operates locally. This is the most practical way to inspect the AT34 group which otherwise can only be accessed by four or five days of hard bushwacking via Tatlayoko Lake.



Section of B.C. Road Map showing location of Index Map area.



INDEX MAP
TO AT3 AND AT4 CLAIMS

Composite from parts of

NTS Maps 92N/7 and 92N/10

Scale: 1/50,000th

0 _____ 1 Km

L. Berniolles, 1988

MAP n° 1

Property definition. The AT3 and AT4 claims (the AT34 group) were staked in July 1987 by the author - who is still the current owner/operator as of this writing - as western and northwestern extensions of the AT2 claim, which was being prospected in detail at the time. The claims are located primarily on Triassic volcanics underlain by the Coast Batholith; at the southern end of the group the batholith has actually been uncovered by glacial action. The most recent geological mapping of the area was performed by W.H. Tipper in 1968.

The mineralization found on the AT34 group falls under 4 categories, the first two of which represent western extensions of the mineralization found on claim AT2.

1) Cu-Ni-Co sulphides in zones of magmatic segregation within the batholith.
2) Copper-bearing quartz and sulphide veins and stockworks in the andesitic upper strata on the main (southwest) ridge of Mount Ottarasko.
3) Auriferous quartz occurences within the volcanic series near the eastern boundary of the property. The precise source location of the float samples taken is still unclear, as they have been transported by the glacier.
4) Auriferous quartz and chalcopyrite in strata-bound fracture fillings within one of the volcanic flows, identified near the northern boundary of the group.

Summary of work done. All accessible areas of the 800 ha. group were prospected systematically by a three-person team, for a total of 111 man/days, over the periods August 1 - August 23 1987 and July 17 - August 22 1988. Two base lines, intersecting respectively, part of claim AT3 and part of claim AT4, (total 1.8 km) were established as reference tie-ins for sampling locations. Forty-six samples were sent to Bondar-Clegg for geochemical analysis.

DETAILED TECHNICAL DATA AND INTERPRETATION

Purpose of investigation. During the summer of 1987, a prospecting program on the AT2 claim (just east of AT3 and AT4) led to the discovery of massive copper-nickel-cobalt sulphide zones within the ultramafic intrusive rocks which characterize that property. The surrounding area was prospected briefly to ascertain whether extensions or recurrences of this mineralization could be found. Positive results in the westerly and northwesterly directions led to the staking of claims AT3 and AT4. During the summer of 1988 a follow-through prospecting program on these two claims led to further discoveries; all the work done to date on the AT34 group is documented in the present prospecting report.

Description of observations made during investigation.

In a general way, the area prospected is underlain by the Coast Batholith, and the overlying Triassic volcanic series has been locally eroded down to the intrusive by stream and glacial action. Map No. 2, scale 1/5000th, shows the surficial geology of the claims and location of the samples which were sent for analysis, as well as the nature of these samples (bedrock outcrop, sub-outcrop or localized float, glacier-transported float).

In the southernmost area, where the batholith is exposed, five quartz carbonate veins were located. Their relative positions are indicated on Map No. 2, and their dimensions and attitudes are detailed in the sample description below.
Samples # AT34-87-20, AT34-87-21, AT34-87-22, AT34-98-23

To the west of the above, also within the intrusive rocks, two samples of very localized float (broken off a cliff face onto the talus slope) show good massive sulphide mineralization containing pyrite, chalcopyrite and pentlandite in an ultramafic igneous rock.
Samples # AT34-87-19, AT34-87-26

Just to the west of that, a small fracture zone of greenish, crumbly rock was sampled; a nearby sample of basalt float with a well-formed blue-grey crust was also sent for analysis.
Samples # AT34-87-25, AT34-87-24

Moving to the north, on the southern flank of the main ridge of Ottarasko Mountain, several samples of sulphide mineralization within andesitic rocks were taken. The rocks, broken into blocks often exceeding 1 m^3, originate at the upper levels of the ridge.
Samples # AT34-87-26, AT34-87-27

Moving north again, to the north flank of the main ridge of Ottarasko Mountain, we find more sulphides in andesitic rocks, some mildly pyritized phyllites and siltstones, as well as several quartz occurences, both in place and as glacier transported float definitely originating from the main ridge.
Samples # AT34-87-30, AT34-88-58, AT34-88-59, AT34-88-60, AT34-88-61, AT34-88-38, AT34-88-39, AT34-88-40

Further north, dealing with a group of samples which have (or are being) transported by the glacier, and whose precise origin is still not clear, we have:

a) quartz vein fragments with very minor amounts of sulphides, often auriferous.
Samples # AT34-87-29, AT34-88-34, AT34-88-36, AT34-88-37

b) quartz or sulphide inclusions within fragments of volcanic rock, with varying Cu-Au contents.
Samples # AT34-88-41, AT34-88-43, AT34-88-44, AT34-88-45, AT34-88-46, AT34-88-47

Finally, on the northern section of the claim (on the south flank of the northwest ridge of Mount Ottarasko) we have a number of quartz veins or occurences in place, as well as various mineralized float samples which must have originated locally (with no ice transport). Samples # AT34-88-31, AT34-88-32, AT34-88-33, AT34-88-35, AT34-88-42, AT34-88-48, AT34-88-49, AT34-88-50 thru -54, AT34-88-55, AT34-88-56, AT34-88-57, AT34-88-62, AT34-88-63, AT34-88-64

Sample description:

AT34-87-19 composite sample of dark hornblende diorite with massive inclusions of sulphides: pyrite, chalcopyrite, pentlandite - the source boulders fall off a vertical cliff onto the scree

AT34-87-20 quartz carbonate vein - strike 35°, near vertical, over 2 m wide, 100+ m long

AT34-87-21 quartz carbonate vein, beige-brown at center, greenish along both walls, strike 160°, dip near vertical, 3+ m wide, 100+ m long - this is a sample of the beige center

AT34-87-22 same vein as above, greenish material on flanks of vein

AT34-87-23 composite samples of 3 smaller quartz carbonate veins just east of -21 - approximately same attitude as -21

AT34-87-24 fragment of basalt float with blue-grey crust

AT34-87-25 small greenish vein and surrounding decomposed material - strike NW, vertical

AT34-87-26 float, ultramafic sample in major NW trending fault canyon - sulphide inclusions several centimeters across

AT34-87-27 sample taken off massive float block (1.5 to 2 m^3); banded disseminations of sulphides in a porphyritic andesite

AT34-87-28 composite sample of five pyritized grey volcanics float blocks on scree, some with quartz and sericite veinlets

AT34-87-29 quartz float - white quartz with very minor chalcopyrite - assays at .46 o/t gold - north lateral moraine, on AT3

AT34-87-30 composite of 2 samples of greyish volcanics with sulphides from float found on south lateral moraine, on AT3 - samples very similar to those making up -28

AT34-88-31 eight quartz veinlets, parallel, vertical over a total width of 3 m - NW strike - each veinlet 10 to 15 cm wide, white quartz with grey banding

AT34-88-32 wall rock from -31 - medium grey volcanics with disseminated sulphides - reddish weathering with azurite stains

AT34-88-33 quartz vein - northeasterly strike, dipping SW 25°, outcropping over 5 m length and 1 m width, but open in both dimensions - yellow-brown quartz, minor sericite

AT34-88-34 composite sample from quartz boulder train on surface of glacier - yellowish-grey quartz, very minor sphalerite and galena - assays at 6.2 g/t gold

AT34-88-35 contorted quartz veinlet, 10 to 20 cm wide - strike northwesterly, approximately vertical, white quartz, minor sericite, limonite stains

AT34-88-36 quartz float - white quartz, minor sericite

AT34-88-37 quartz float - white quartz with grey inclusions and fairly abundant muscovite - bright orange stains

AT34-88-38 white quartz float (from terminal moraine, AT3)

AT34-88-39 white quartz float (south lateral moraine, AT3)

AT34-88-40 white quartz float (south lateral moraine, AT3) - minor sulphides

AT34-88-41 float - quartz fracture fillings in grey volcanic flow - minor sulphides, malachite, azurite stains

AT34-88-42 float - quartz carbonate with azurite and malachite stains

AT34-88-43 float - quartz fracture filling in dark grey very fine-grained volcanic rock - good sulphide content: chalcopyrite, pyrite, bornite, with malachite stains on the host rock

AT34-88-44 float - quartz in grey volcanic, minor disseminated sulphides - malachite stain on host rock

AT34-88-45 quartz veinlets in a ladder structure within grey and mauve volcanic flows - sample taken from large angular boulders arranged in a train along the north lateral moraine on AT3 - gold-copper mineralization

AT34-8846 composite sample of mineralized float on medial moraine quartz with pyrite and minor chalcopyrite associated with grey pyritized volcanic rock

AT34-88-47 composite sample from north lateral moraine - description similar to -46

AT34-88-48 quartz vein - strike 150°, near vertical, length approximately 100 m, width 30 cm, rusty zone on both walls

AT34-88-49 local float from alteration zone surrounding -48, grey mottled quartz, chalcopyrite, malachite

AT34-88-50 quartz vein - strike 155°, near vertical, length 200+ m, width 30 to 40 cm - northernmost location on vein: limonite, small amounts of sulphides, including galena

AT34-88-51 same as -50, but 60 m SE - no visible mineralization

AT34-88-52 same as -50, but 125 m SE - white quartz, malachite stains, very minor chalcopyrite

AT34-88-53 same as -50, but 175 m SE - no visible mineralization apart from a few crystals of pyrite

AT34-88-54 altered limonitic wall rock along quartz vein (sampled in -50, -51, -52, -53) location 150 m SE from sample -50

AT34-88-55 zone of quartz carbonate 30 m east of -54, over 20 m^2

AT34-88-56 quartz vein - strike 160°, dip 80° East, exposed over 15 m - pyrite crystals

AT34-88-57 pale grey limestone with disseminated pyrite crystals, weathers beige-brown

AT34-88-58 composite sample of mildly pyritized phyllites and siltstones, from localized float

AT34-88-59 quartz vein remnant - attitude approximately North South vertical, no visible mineralization

AT34-88-60 quartz lens (vein?) in line with fault - strike 130°, dip 85° West, 2 m wide, 20+m long, no visible mineralization

AT34-88-61 quartz float, on south side of glacier, on AT3 - disseminated crystals of galena

AT34-88-62 quartz vein remnant - white quartz with sericite

AT34-88-63 composite sample from several quartz veins and veinlets trending approximately NW on a cliff face - quartz, sericite, biotite, limonite

AT34-88-64 quartz vein float from huge fragment of vein, buried under snow until mid August - quartz with minor pyrite disseminations

Signature of the prospector who performed the work (as per section C9(7) of Mineral Act Regulations) :

Louis M. Berniolles

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

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 127-9400 (COMPLETE)

REFERENCE INFO:

CLIENT: TCHAIKAZAN EXPLORATIONS
PROJECT: AT34

SUBMITTED BY: LOUIS BERNOILLES
DATE PRINTED: 9-DEC-87

ORDER		ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Cu	Copper	12	1 PPM	MULT ACID TOT DIG	PLASMA
2	Pb	Lead	12	5 PPM	MULT ACID TOT DIG	PLASMA
3	Zn	Zinc	12	1 PPM	MULT ACID TOT DIG	PLASMA
4	Mo	Molybdenum	12	1 PPM	MULT ACID TOT DIG	PLASMA
5	Co	Cobalt	12	1 PPM	MULT ACID TOT DIG	PLASMA
6	Ni	Nickel	12	1 PPM	MULT ACID TOT DIG	PLASMA
7	Cr	Chromium	12	1 PPM	MULT ACID TOT DIG	PLASMA
8	Mn	Manganese	12	1 PPM	MULT ACID TOT DIG	PLASMA
9	Cd	Cadmium	12	1 PPM	MULT ACID TOT DIG	PLASMA
10	Ag	Silver	12	0.5 PPM	MULT ACID TOT DIG	PLASMA
11	Bi	Bismuth	12	2 PPM	MULT ACID TOT DIG	PLASMA
12	Fe	Iron	12	0.05 PCT	MULT ACID TOT DIG	PLASMA
13	V	Vanadium	12	1 PPM	MULT ACID TOT DIG	PLASMA
14	As	Arsenic	12	5 PPM	MULT ACID TOT DIG	PLASMA
15	Te	Tellurium	12	10 PPM	MULT ACID TOT DIG	PLASMA
16	U	Uranium	12	10 PPM	MULT ACID TOT DIG	PLASMA
17	W	Tungsten	12	10 PPM	MULT ACID TOT DIG	PLASMA
18	Sb	Antimony	12	5 PPM	MULT ACID TOT DIG	PLASMA
19	Se	Selenium	12	5 PPM	MULT ACID TOT DIG	PLASMA
20	Sn	Tin	12	10 PPM	MULT ACID TOT DIG	PLASMA
21	Au	Gold-Fire Assay/N.A.	6	1 PPB	FIRE-ASSAY	INST. NEUTRON ACTIV.
22	Pt	Platinum	2	15 PPB	FIRE-ASSAY	
23	Pd	Palladium	2	2 PPB	FIRE-ASSAY	

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REPORT: 127-9400

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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	Fe PCT
R2 AT34-87-19		>20000	13	212	7	644	1697	193	364	<1	9.9	<2	>10.00
R2 AT34-87-20		489	17	338	7	57	73	105	811	<1	0.5	<2	9.63
R2 AT34-87-21		413	25	244	3	31	65	13	1120	<1	<0.5	<2	4.87
R2 AT34-87-22		87	15	195	3	25	35	47	869	<1	<0.5	<2	6.98
R2 AT34-87-23		79	23	312	1	21	57	23	1178	<1	<0.5	<2	4.45
R2 AT34-87-24		119	71	161	3	3	15	151	103	<1	0.7	<2	2.24
R2 AT34-87-25		220	27	222	5	67	123	79	1122	<1	2.3	19	8.59
R2 AT34-87-26		5653	15	276	3	163	1291	282	991	<1	0.7	7	>10.00
R2 AT34-87-27		4039	55	240	11	179	55	33	903	1	0.5	7	>10.00
R2 AT34-87-28		2137	27	103	7	129	35	43	801	<1	<0.5	<2	7.92
R2 AT34-87-29		260	31	51	<1	49	19	173	228	<1	8.7	3	3.20
R2 AT34-87-30		833	13	75	3	57	37	43	1291	<1	<0.5	<2	6.90

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Geochemical Lab Report

REPORT: 127-9400

PROJECT: AT34 PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	V PPM	As PPM	Te PPM	U PPM	W PPM	Sb PPM	Se PPM	Sn PPM	Au PPB	Pt PPB	Pd PPB
R2 AT34-87-19		275	31	<10	<10	<10	<5	9	<10	60	110	60
R2 AT34-87-20		334	<5	<10	<10	<10	<5	<5	<10			
R2 AT34-87-21		160	<5	<10	<10	<10	<5	<5	<10			
R2 AT34-87-22		352	<5	<10	<10	<10	<5	6	<10			
R2 AT34-87-23		144	<5	<10	<10	<10	<5	9	<10			
R2 AT34-87-24		56	35	19	<10	<10	7	<5	<10	50	60	40
R2 AT34-87-25		435	17	<10	<10	<10	5	<5	<10			
R2 AT34-87-26		364	13	<10	<10	<10	<5	<5	<10			
R2 AT34-87-27		163	73	<10	<10	73	9	8	13	120		
R2 AT34-87-28		137	35	<10	<10	<10	<5	<5	<10	140		
R2 AT34-87-29		13	19	32	<10	<10	<5	<5	<10	>10000		
R2 AT34-87-30		200	<5	<10	<10	<10	<5	<5	<10	680		

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Geochemical Lab Report

REPORT: 127-9400 (COMPLETE)

REFERENCE INFO:

CLIENT: TCHAIKAZAN EXPLORATIONS
PROJECT: AT34

SUBMITTED BY: LOUIS BERNOILLES
DATE PRINTED: 9-DEC-87

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	12	2 -150	12	CRUSH,PULVERIZE -150	12

REMARKS: ASSAY OF HIGH Au, Cu TO FOLLOW ON #627-9400

REPORT COPIES TO: MR. LOUIS BERNIOLLES

INVOICE TO: MR. LOUIS BERNIOLLES

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Certificate of Analysis

REPORT: 627-9400 | PROJECT: AT34 | PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Cu PCT
R2 AT34-87-19			3.08
R2 AT34-87-29		0.465	

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Certificate of Analysis

REPORT: 627-9400 (COMPLETE)

REFERENCE INFO:

CLIENT: TCHAIKAZAN EXPLORATIONS
PROJECT: AT34

SUBMITTED BY: LOUIS BERNIOLLES
DATE PRINTED: 18-DEC-87

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold - FIRE ASSAY	1	0.001 OPT		
2	Cu	Copper	1	0.01 PCT		

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	2	2 -150	2	AS RECEIVED, NO SP	2

REPORT COPIES TO: MR. LOUIS BERNIOLLES

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Registered Assayer, Province of British Columbia

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Geochemical Lab Report

REPORT: V88-07250.0 (COMPLETE)

REFERENCE INFO:

CLIENT: TCHAIKAZAN EXPLORATIONS
PROJECT: AT34

SUBMITTED BY: I. BERNTOLFS
DATE PRINTED: 5-OCT-88

ORDER		ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold	34	1 PPB	FIRE-ASSAY	FIRE ASSAY DCP
2	Ag	Silver	34	0.2 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
3	As	Arsenic	34	5 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
4	B	Boron	34	2 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
5	Ba	Barium	34	1 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
6	Be	Beryllium	34	0.5 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
7	Bi	Bismuth	34	2 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
8	Cd	Cadmium	34	1 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
9	Ce	Cerium	34	5 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
10	Co	Cobalt	34	1 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
11	Cr	Chromium	34	1 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
12	Cu	Copper	34	1 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
13	Ga	Gallium	34	2 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
14	La	Lanthanum	34	1 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
15	Li	Lithium	34	1 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
16	Mo	Molybdenum	34	1 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
17	Nb	Niobium	34	1 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
18	Ni	Nickel	34	1 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
19	Pb	Lead	34	2 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
20	Rb	Rubidium	34	20 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
21	Sb	Antimony	34	5 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
22	Sc	Scandium	34	1 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
23	Sn	Tin	34	20 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
24	Sr	Strontium	34	1 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
25	Ta	Tantalum	34	10 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
26	Te	Tellurium	34	10 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
27	Tl	Thallium	34	10 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
28	V	Vanadium	34	1 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
29	W	Tungsten	34	10 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
30	Y	Yttrium	34	1 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
31	Zn	Zinc	34	1 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC
32	Zr	Zirconium	34	1 PPM	MULT ACID TOT DIG	PLASMA EMISSION SPEC

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SUBMITTED BY: L. BERNIOLLES
DATE PRINTED: 5-OCT-88

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

REMARKS: ASSAY OF HIGH Au, Cu TO FOLLOW ON V88-07250.6

ELEVATED DETECTION LIMITS ON SOME ELEMENTS
DUE TO INTERFERENCE FROM HIGH COPPER CONTENT.

- THE PACKAGE THAT YOU REQUESTED IS NO LONGER AVAILABLE, SO WE HAVE SUBSTITUTED OUR NEW PACKAGE. IF YOU REQUIRE THE MISSING ELEMENTS, PLEASE ADVISE, AND WE WILL RUN THEM BY OUR SPECIFIC TECHNIQUES.

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Geochemical Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	B PPM	Ba PPM	Be PPM	Bi PPM	Cd PPM	Ce PPM	Co PPM	Cr PPM
R2 AT34-88-31		4	0.9	<50	<2	111	<4.0	<5	<1	15	4	223
R2 AT34-88-32		38	4.1	<50	<2	356	<4.0	<5	1	7	24	66
R2 AT34-88-33		4	0.8	<50	<2	60	<4.0	<5	<1	8	4	258
R2 AT34-88-34		6200	1.0	<50	25	24	<4.0	<5	18	<5	<2	191
R2 AT34-88-35		37	0.6	<50	<2	242	<4.0	<5	<1	8	4	217
R2 AT34-88-36		6	<0.5	<50	4	54	<4.0	<5	<1	<5	<2	294
R2 AT34-88-37		196	1.6	<50	<2	121	<4.0	<5	<1	<5	8	259
R2 AT34-88-38		5	<0.5	<50	3	6	<4.0	<5	<1	<5	4	310
R2 AT34-88-39		1	0.5	<50	<2	32	<4.0	<5	<1	<5	9	292
R2 AT34-88-40		4	0.8	<50	<2	100	<4.0	<5	<1	<5	33	299
R2 AT34-88-41		179	2.2	<50	<2	242	<4.0	<5	1	<5	22	134
R2 AT34-88-42		127	8.9	152	<2	477	<4.0	<5	3	8	12	110
R2 AT34-88-43		8200	23.7	<50	<2	208	<4.0	46	10	6	21	107
R2 AT34-88-44		1240	7.0	<50	<2	228	<4.0	<5	2	<5	11	236
R2 AT34-88-45		>100000	5.1	<50	<2	135	<4.0	9	3	8	19	102
R2 AT34-88-46		234	0.9	<50	<2	70	<4.0	<5	<1	11	175	88
R2 AT34-88-47		456	2.0	<50	<2	97	<4.0	<5	1	6	199	130
R2 AT34-88-48		37	1.2	<50	<2	499	<4.0	<5	<1	6	16	176
R2 AT34-88-49		690	31.0	70	<2	253	<4.0	6	4	9	26	197
R2 AT34-88-50		25	24.3	259	<2	156	<4.0	40	1	<5	8	284
R2 AT34-88-51		11	4.5	<50	<2	183	<4.0	15	<1	8	2	242
R2 AT34-88-52		8	1.5	<50	<2	14	<4.0	<5	<1	<5	<2	317
R2 AT34-88-53		4	0.7	<50	<2	325	<4.0	<5	<1	7	4	258
R2 AT34-88-54		6	1.3	243	<2	308	<4.0	<5	1	89	38	117
R2 AT34-88-55		6	<0.5	<50	<2	1032	<4.0	<5	<1	25	11	52
R2 AT34-88-56		24	1.4	<50	<2	176	<4.0	<5	<1	6	4	169
R2 AT34-88-57		10	0.5	<50	<2	459	<4.0	<5	1	<5	39	53
R2 AT34-88-58		9	3.0	70	<2	325	<4.0	<5	3	11	8	91
R2 AT34-88-59		3	<0.5	<50	<2	25	<4.0	<5	<1	<5	2	241
R2 AT34-88-60		14	<0.5	<50	<2	37	<4.0	<5	<1	<5	9	230
R2 AT34-88-61		40	1.7	75	<2	79	<4.0	<5	2	<5	4	287
R2 AT34-88-62		2	<0.5	<50	<2	194	<4.0	<5	<1	<5	3	304
R2 AT34-88-63		14	<0.5	<50	<2	197	<4.0	<5	<1	<5	13	277
R2 AT34-88-64		379	<0.5	<50	<2	134	<4.0	<5	<1	23	11	153

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Ga PPM	La PPM	Li PPM	Mo PPM	Nb PPM	Ni PPM	Pb PPM	Rb PPM	Sb PPM	Sc PPM
R2 AT34-88-31		76	8	6	6	<5	3	8	<10	<50	<5	3
R2 AT34-88-32		1357	16	<1	24	<5	6	5	<10	<50	<5	18
R2 AT34-88-33		68	6	2	3	<5	2	7	<10	<50	<5	3
R2 AT34-88-34		28	4	<1	2	<5	2	4	21	<50	<5	2
R2 AT34-88-35		29	9	4	11	<5	3	9	<10	<50	<5	4
R2 AT34-88-36		5	3	<1	1	<5	1	5	<10	<50	<5	<1
R2 AT34-88-37		1323	4	<1	3	<5	2	6	<10	<50	<5	2
R2 AT34-88-38		39	<2	<1	<1	<5	<1	7	<10	<50	<5	<1
R2 AT34-88-39		49	3	<1	<1	<5	1	10	<10	<50	<5	<1
R2 AT34-88-40		61	8	<1	8	513	3	13	<10	<50	<5	2
R2 AT34-88-41		2403	12	1	17	<5	4	10	11	<50	<5	10
R2 AT34-88-42		4990	15	2	7	<5	5	10	<10	92	717	12
R2 AT34-88-43		>20000	12	<1	7	<5	5	12	13	<50	16	14
R2 AT34-88-44		8627	9	<1	8	<5	4	8	<10	102	11	5
R2 AT34-88-45		8617	14	2	9	<5	3	13	11	<50	<5	17
R2 AT34-88-46		931	17	1	10	<5	3	2	<10	<50	<5	11
R2 AT34-88-47		2438	7	<1	7	<5	3	2	<10	<50	<5	5
R2 AT34-88-48		118	13	1	20	<5	3	26	<10	<50	<5	5
R2 AT34-88-49		8768	9	1	6	<5	4	28	67	<50	32	6
R2 AT34-88-50		1018	5	<1	6	<5	2	9	1755	<50	124	3
R2 AT34-88-51		137	7	2	9	9	2	7	168	<50	29	3
R2 AT34-88-52		687	3	<1	2	<5	2	6	27	<50	9	<1
R2 AT34-88-53		34	7	2	9	15	2	8	11	57	<5	3
R2 AT34-88-54		142	25	55	69	7	7	95	41	<50	25	10
R2 AT34-88-55		40	13	8	85	<5	<1	14	19	<50	5	8
R2 AT34-88-56		19	5	1	6	20	2	7	83	<50	<5	2
R2 AT34-88-57		59	13	1	41	<5	3	11	14	55	<5	18
R2 AT34-88-58		229	11	7	37	6	2	8	497	<50	53	12
R2 AT34-88-59		31	<2	<1	10	<5	<1	4	<10	<50	<5	<1
R2 AT34-88-60		65	4	<1	7	<5	2	13	<10	69	<5	3
R2 AT34-88-61		84	<2	1	2	7	<1	6	575	<50	14	<1
R2 AT34-88-62		14	<2	<1	2	<5	<1	4	26	<50	<5	6
R2 AT34-88-63		56	4	<1	6	<5	1	6	12	<50	<5	5
R2 AT34-88-64		251	4	11	18	<5	<1	8	25	<50	<5	6

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SAMPLE NUMBER	ELEMENT UNITS	Sn PPM	Sr PPM	Ta PPM	Te PPM	Tl PPM	V PPM	W PPM	Y PPM	Zn PPM	Zr PPM
R2 AT34-88-31		<30	71	<10	<20	<20	23	<10	3	18	8
R2 AT34-88-32		<30	196	<10	<20	<20	179	20	12	70	2
R2 AT34-88-33		<30	33	<10	<20	<20	23	<10	2	14	6
R2 AT34-88-34		<30	54	<10	<20	<20	14	<10	1	496	3
R2 AT34-88-35		<30	66	<10	<20	<20	37	<10	3	27	8
R2 AT34-88-36		<30	3	<10	<20	<20	9	<10	<1	10	<1
R2 AT34-88-37		<30	16	<10	<20	<20	21	<10	2	32	2
R2 AT34-88-38		<30	3	<10	<20	<20	4	<10	<1	9	<1
R2 AT34-88-39		<30	20	<10	<20	<20	8	<10	<1	9	<1
R2 AT34-88-40		<30	10	<10	<20	<20	36	<10	<1	43	1
R2 AT34-88-41		<30	263	<10	<20	<20	125	<10	8	59	3
R2 AT34-88-42		<30	55	<10	<20	<20	681	<10	5	78	35
R2 AT34-88-43		<30	335	<10	<20	<20	158	15	11	<2106	8
R2 AT34-88-44		<30	59	<10	<20	<20	81	<10	2	66	5
R2 AT34-88-45		<30	491	<10	<20	<20	121	<10	14	138	6
R2 AT34-88-46		<30	235	<10	<20	<20	96	<10	15	58	8
R2 AT34-88-47		<30	78	<10	<20	<20	55	<10	9	52	13
R2 AT34-88-48		<30	46	<10	<20	<20	72	<10	4	57	7
R2 AT34-88-49		<30	86	<10	<20	<20	52	13	5	165	4
R2 AT34-88-50		<30	30	<10	<20	<20	32	<10	1	45	4
R2 AT34-88-51		<30	107	<10	<20	<20	33	<10	1	32	9
R2 AT34-88-52		<30	5	<10	<20	<20	6	<10	<1	13	<1
R2 AT34-88-53		<30	17	<10	<20	<20	34	<10	1	14	8
R2 AT34-88-54		<30	222	<10	<20	<20	207	24	14	125	165
R2 AT34-88-55		<30	611	<10	<20	<20	69	<10	11	55	30
R2 AT34-88-56		<30	14	<10	<20	<20	24	<10	2	18	6
R2 AT34-88-57		<30	162	<10	<20	<20	179	<10	5	89	2
R2 AT34-88-58		<30	310	<10	<20	<20	122	<10	8	367	16
R2 AT34-88-59		<30	11	<10	<20	<20	7	<10	<1	22	<1
R2 AT34-88-60		<30	46	<10	<20	<20	32	<10	2	36	3
R2 AT34-88-61		<30	11	<10	<20	<20	8	<10	3	66	4
R2 AT34-88-62		<30	21	<10	<20	<20	51	<10	2	13	3
R2 AT34-88-63		<30	42	<10	<20	<20	47	<10	3	25	2
R2 AT34-88-64		<30	301	<10	<20	<20	46	<10	9	37	17

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Certificate of Analysis

REPORT: V88-07250.6

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Cu PCT
R2 AT34-88-43			3.04
R2 AT34-88-45		0.446	

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Certificate of Analysis

REPORT: V88-07250.6 (COMPLETE)

REFERENCE INFO:

CLIENT: TCHAIKAZAN EXPLORATIONS
PROJECT: AT34

SUBMITTED BY: L. BERNIOLLES
DATE PRINTED: 7-OCT-88

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold	1	0.002 OPT		Fire Assay
2	Cu	Copper	1	0.01 PCT		Atomic Absorption

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
R ROCK OR BED ROCK	2	2 -150	2	AS RECEIVED, NO SP	2

REPORT COPIES TO: MR. LOUIS BERNIOLLES

INVOICE TO: MR. LOUIS BERNIOLLES

Registered Assayer, Province of British Columbia

Interpretation and Conclusions.

The various mineralized occurences on the AT3 and AT4 claims are aligned approximately on a southeast-northwest axis over a distance of 2.5 km and fall into four general categories, depending on their relative position to the contact between the Triassic volcanics and the batholithic rocks which intrude them on the southern part of the claims.

1) Zones of magmatic segregations within the intrusive. Here the mineralization is of the copper-nickel-cobalt type, and represent a continuation of the mineralization found on the AT2 claim, to the east. Values range to 3% Cu, .17% Ni and .06% Co. (Samples -19, -26).

2) Quartz and sulphide veins and stockworks to the north of the above, within the volcanic pile. Values in copper (up to .4%) with small amounts of gold (up to .68 g/t). These occurences also represent a continuation of the mineralization found on or just north of the AT2 claim to the east. (Samples -27, -28, -30)

3) Still further north, auriferous quartz occurences (indicated by float blocks) with almost no other associated minerals. Gold values to .46 oz/t, with a high Au/Ag ratio. The precise origin of this float has not yet been identified. (Samples -29, -34)

4) Finally, at the northern end of the property, various occurences of Cu-Au-Ag mineralization, associated either with minor quartz fracture fillings within a gangue of volcanic rock, or with NW trending quartz veins. Values up to 3% Cu and .44 oz/t Au with a low Au/Ag ratio. (Samples -41, -42, -43, -44, -45, -47, -49, -50)

From the above data, two working hypotheses could be suggested with regard to further exploration in the area.

First, an overwhelming number of the structures found on the property show a SE-NW orientation. This is true of faults, of dykes, and of veins. Furthermore it is true, on a larger scale, of the mineralized trend itself, regardless of the particular form that it takes. There is, possibly, a regional relationship between this trend and the proximity of the northwest trending Ottarasko and Tchaikazan transcurrent faults a few kilometers east of the claims. If so, one might reasonably expect mineralization to continue to the NW from the northern boundary of the property.

Secondly, it might be noted that the sequence of elements, and the proportions of elements, which are found in the various mineralized sections (going from the SE to the NW) correspond roughly to the horizontal endogenic zonation of elements outward from a thermal center. Should this coincidence still be valid further north (that is further away from the batholithic contact), one might expect to find further gold values associated with zinc, lead and possibly more significant amounts of silver.

The possibility of Au-Ag-Zn-Pb mineralization to the northwest of the claims, finds some support in the presence of a Total Heavy Metal anomaly in the stream sediments of the creek draining

that area. (This anomaly was found and documented by the author during the course of a 1984 regional geochemical survey). Furthermore, the Blackhorn Mountain gold occurences, 5 km northwest of the AT3 claim, are known to have significant lead and silver components. A rapid preliminary examination of the ground by the author during the summer of 1988 confirms the presence of some sulphide mineralization in the area under question, but its extent, as well as its precise nature, are still unclear; the area will require a substantial amount of systematic prospecting.

On the AT34 group itself, further activities could include the following:

1) Ground geophysics on the relatively restricted areas where the terrain will allow the establishment of a grid. This would probably be most appropriate in the vicinity of the Cu-Ni-Co mineralization on claim AT4.

2) The viability of airborne geophysics should be investigated. The terrain is so rugged and the changes of altitude so abrupt that the value of an airborne survey may be diminished.

3) Further prospecting should be done by qualified mountaineering personnel in the areas which could not be reached by the author (ie which could only be reached by using technical aids to climbing: pitons, ropes, etc.).

4) Several drilling targets are already identified, to test quartz veins as well as the ultramafic intrusives containing the copper-nickel mineralization.

ITEMIZED COST STATEMENT - AT34 PROJECT

Field personnel	111 man/days	@ $100	$ 11,100
Food and accomodation			1,998
Aircraft support (Bell 206B)	3.1 hrs.	@ $560	1,734
Ground transport (P.U.)	2550 km	@ 15¢	382
Equipment & supplies			1,254
Laboratory analysis	46 samples	@ $26.25	1,209
Report writing			150
		Total	$ 17,827

AUTHOR'S QUALIFICATIONS

- Eleven years experience as an independent prospector in France, Northern Saskatchewan and Central British Columbia.

- Attended the Third Annual Mineral Exploration Course for Prospectors, sponsored by the B. C. Ministry of Energy, Mines & Petroleum Resources, at Selkirk College, Castlegar, B. C., from April 29 to May 12, 1979.

- The author holds a B.A. in Mathematics from the University of Lyon, France, and a B.A. in Economics from the University of British Columbia.

PLAN MAP OF AT3 AND AT4 CLAIMS (MAP NO. 2)

Scale: 1/5000th Elevations in feet

Author: L. Berniolles, 1988

LEGEND

- Lithological and surficial boundaries
- 1 — Triassic volcanics, minor shale and limestone
- 2 — Triassic shale and limestone
- 1A — Talus derived from 1
- 3 — Intrusive rocks of Batholith
- 3A — Talus derived from 3
- 4 — Glacier
- 4A — Till and moraine
- 5 — Soil, silt, gravel
- Mineralized zones or structures

- Cairn
- Outcrop sample
- Sub-outcrop or localized float sample
- Glacier borne float sample

The number next to each sample location refers to the suffix n in the sample numbering system used in the text and in the geochemical analysis report (i.e. AT34-87-n or AT34-88-n)

0 100m 200m 300m 400m 500m

Survey by Topographic Map and Air Photography