ARIS SUMMARY SHEET

istrict Geologist, Smithers Off Confidential: 92.09.20 **ASSESSMENT REPORT 21978** MINING DIVISION: Skeena ROPERTY: Hat 130 20 00 LOCATION: LAT 56 20 00 LONG UTM 09 6243764 417559 NTS 104B08E CAMP: 050 Stewart Camp LAIM(S): Hat 1-8 OPERATOR(S): Jantri Res. AUTHOR(S): Allen, D.G. 1991, 31 Pages EPORT YEAR: **EYWORDS**: Jurassic, Unuk River Formation, Diorites, Syenites, Rhyolites Andesites, Argillites ORK ONE: Prospecting

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GEOLOGY · GEOPHYSICS MINING ENGINEERING

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Skeena Mining Division - British Columbia

Lat. 56° 20'N. Long. 130° 20' W. N.T.S. 104B/8E

for

JANTRI RESOURCES INC.

by

Donald G. Allen, P. Eng. (B.C.)

GEOLOGICAL BRANCH

December 15, 1991



Vancouver, B.C.

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INTRODUCTION

Jantri Resources Inc. holds 137 claim units (HAT claims) in the Sulphurets Creek area of northwestern British Columbia. The claims cover widespread iron-stained volcanic and sedimentary rocks of the Stewart Complex.

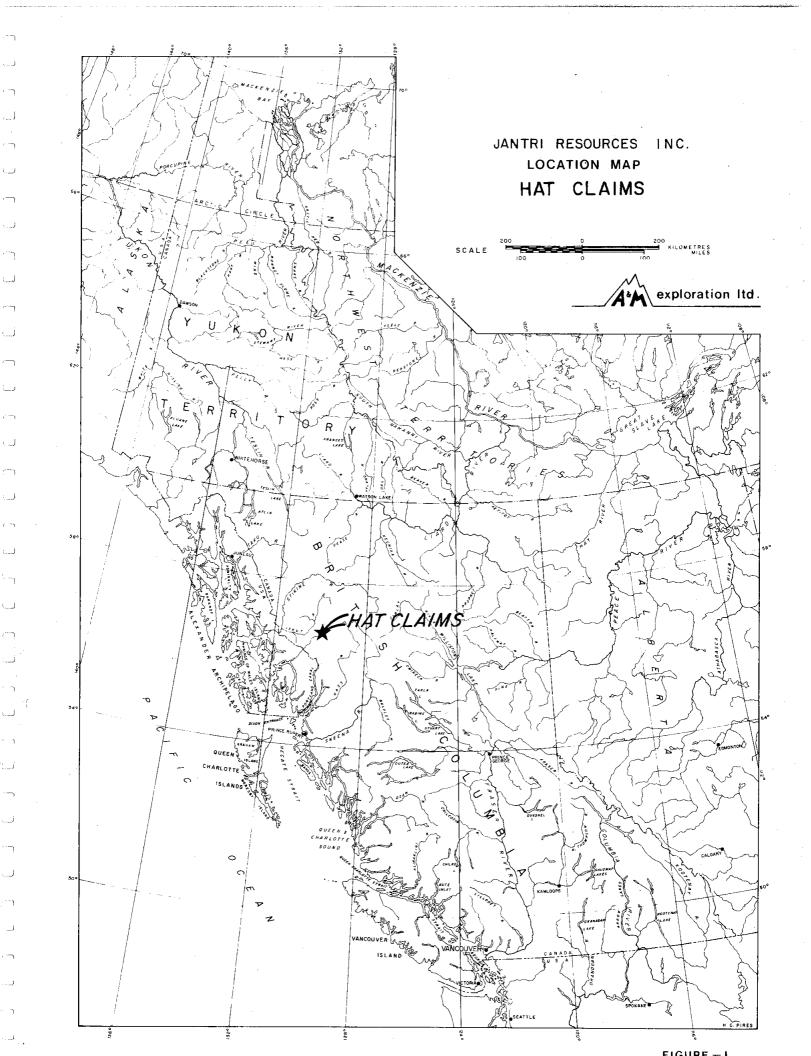
The HAT property is strategically located in the Stewart-Sulphurets (Iskut) gold camp, which is currently the focus of intense exploration activity. Major discoveries have been made in recent years, e.g., the Silbak Premier (6.5 million tons 0.063 ounces per ton gold and 2.34 ounces per ton silver) and Big Missouri (1.8 Million tons grading 0.105 ounces per ton gold) properties of Westmin Resources, and the Brucejack Lake deposits (2 million tons grading 0.46 ounces per ton gold and 21.8 ounces per ton silver) of Newhawk/Granduc. Placer Dome's Kerr deposit (66 million tons grading 0.8% copper and 0.01 ounces per ton gold) lies immediately adjacent to the HAT property to the northeast.

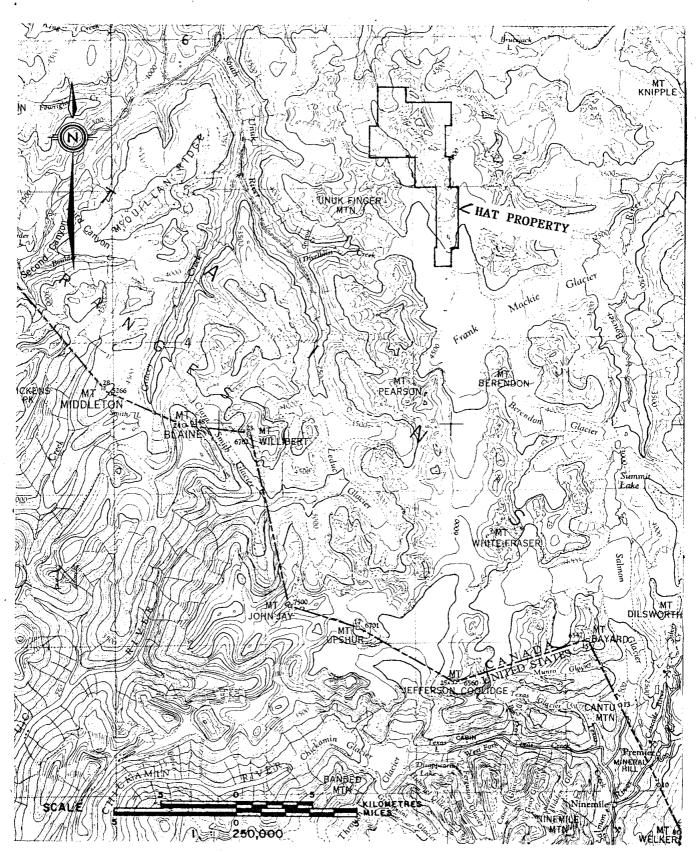
The purpose of this report is to summarize results of a program of prospecting, mapping and geochemical sampling conducted on the HAT 8 claim on behalf of Jantri Resources Inc. during the period September 13 to 15, 1991. Purpose of this work was to evaluate a strong conductive zone on the HAT 8 claim outlined in an airborne geophysical survey carried out in 1990 by Aerodat Ltd. (Podolsky, 1990).

LOCATION, ACCESS, PHYSIOGRAPHY

The HAT property is situated seventy kilometres north northwest of Stewart, British Columbia (Figure 1). The property lies at the head of the west fork of the Sulphurets Icefield, the Ted Morris Glacier and Frank Mackie Icefield (Figure 2).

The Granduc Mine road provides access to within 17 kilometres of the property. Access to the property is by helicopter based at Stewart or Bob Quinn Lake.





N.T.S. 104 B/8

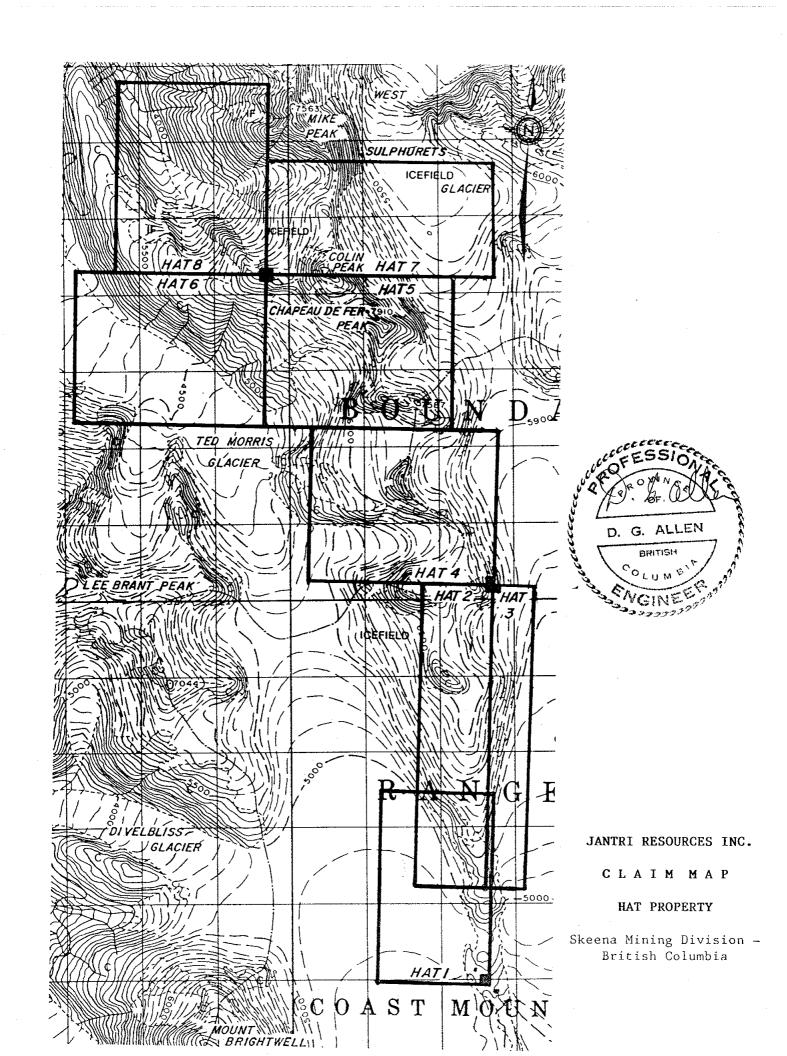
JANTRI RESOURCES INC.

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ACCESS MAP

HAT PROPERTY

Skeena Mining Division - British Columbia



The property is in the rugged Boundary Ranges of the Coast Mountains. Most of the claim area is above treeline. Slopes are locally mantled with snow, ice and glacial moraine deposits. Elevations range from 1130 to 2410 metres (3900 to 7910 feet).

CLAIM DATA

The HAT property comprises 137 claim units as follows (See Figure 3 and 4).

Claim Name	Record No.	No. of Units	Record Date	<u>Expiry</u> *
. 1	6911	15	September 23, 1988	1992*
2	6912	16	September 23, 1988	1992*
3	6913	. 8	September 23, 1988	1992*
4	6914	20	September 23, 1988	1992*
5	6915	20	September 23, 1988	1992*
6	6916	20	September 23, 1988	1992*
7	6917	20	September 23, 1988	1992*
8	6918	18	September 23, 1988	1992*

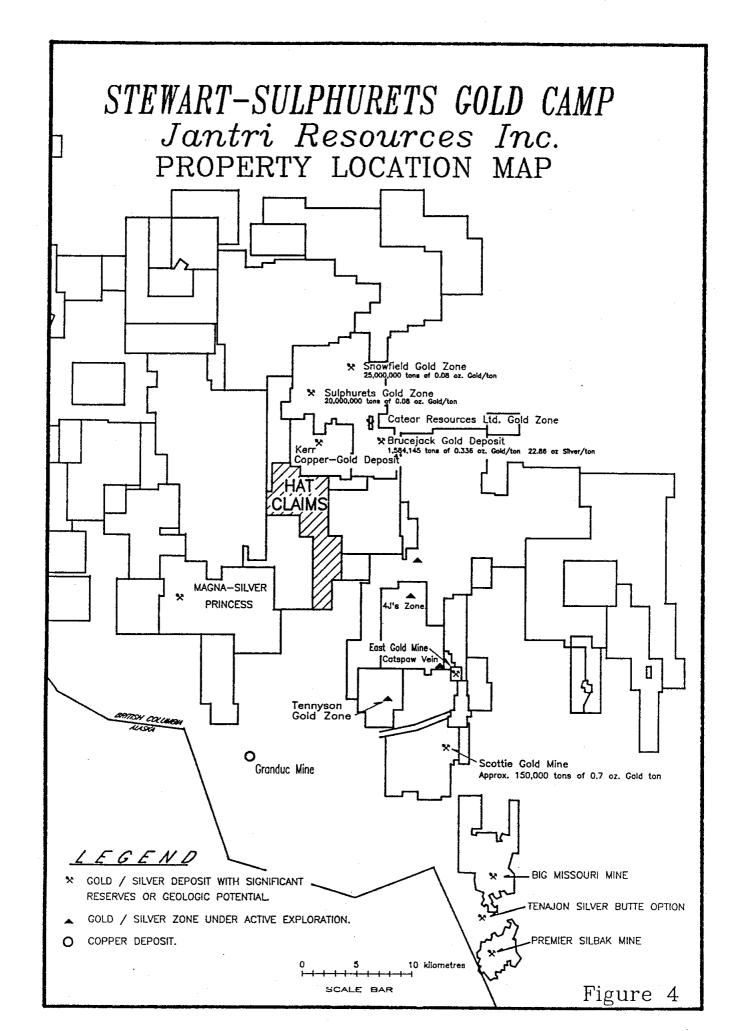
* Assuming this report is accepted for assessment purposes.

HISTORY

The history of the Sulphurets area as summarized by Tribe (1988) as follows.

"The Sulphurets Area was know as a source of gold as early as the 1880's when prospectors stopped along the Sulphurets Creek. "Duke's" placer claims along Mitchell Creek just above the confluence with the Sulphurets has been worked more or less continually since that time. Bruce and Jack Thompson were early prospectors who worked along the Mitchell Creek around 1930.

Around 1959 gold and silver values were discovered around Brucejack Lake but no follow-up work was recorded. In 1960 the emphasis was on copper and Granduc Mines Ltd. staked much of the red altered ground in the Sulphurets, including all that held today by the Newhawk-Lacana-Granduc J.V. (Sulphurets J.V.) at Brucejack Lake.



In 1980 Esso Resources optioned Granduc's holdings in the Sulphurets with the object of proving up a large tonnage copper deposit. Their work lead to the discovery of gold and silver at Brucejack Lake, Mitchell-Sulphurets Ridge and an estimated sixteen other showings.

Brinco commenced work on the Kerr Claims to the west of the Sulphurets Glacier in 1985 and immediately found favourable results. Exploration continued on the Kerr Claims (by Western Canadian and Sulphurets Gold) throughout 1986 to 1988.

The 'HAT' Claims abut against the Kerr Group to the south and form a continuation of the red alteration zone. The ground is higher, mainly above 1500m., much of it snow covered until late in the summer, and has thus been unexplored since the renewed interest in gold and silver in this area in the 1980's." Placer Dome recently acquired and is currently evaluating the Kerr property.

Subsequent to acquistion of the HAT claims, Jantri Resources conducted programs of prospecting, mapping and rock geochemical sampling (Allen, 1988; Peart, 1989). This work identified a number of areas of moderate interest. In 1990, a helicopter-borne magnetic, electomagnetic and VLF-electromagnetic survey was conducted by Aerodat Limited (Podolsky, 1990) on behalf of Swift Minerals Ltd. and Jantri Resources Inc. This work identified a strong conductive zone with as many as six subparallel conductors on the HAT 8 claim along with six scattered weakly conductive zones elsewhere on the claim group.

GEOLOGY

Regional Geology

The Stewart-Sulphurets Gold Camp lies along the boundary of the western margin of the Intermontane Tectonic Belt and the Coast Plutonic complex. Geology of the area has been described by Grove (1971, 1986), Alldrick (1989), Britton and Alldrick (1987), Alldrick and Britton (1988) and Britton (1989). Grove refers to the volcanic and sedimentary rocks

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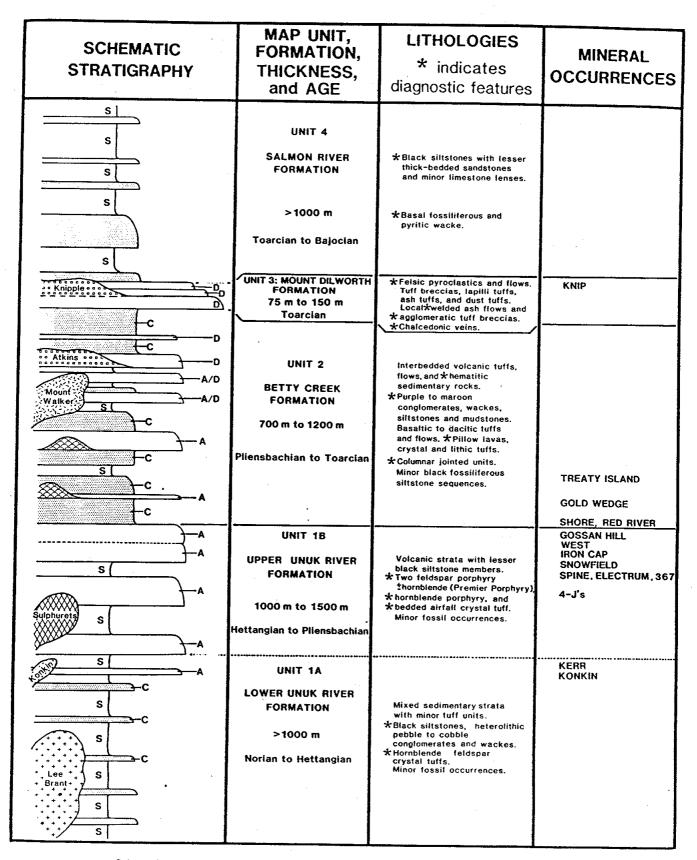
underlying the area as the Stewart Complex. These rocks mainly include Late Triassic to Middle Jurassic rocks of the Hazelton Group that have been folded, faulted and weakly metamorphosed (Alldrick et al, 1987). These strata are affected by at least three intrusive-metamorphic episodes. A simple thermal history as deduced by Alldrick et al (1987) is as follows:

- (1) Late Triassic to early Jurassic volcanism and coeval emplacement of subvolcanic magma (211 to 190 Ma) was followed by late dyke emplacement (190 to 185 Ma) and by quiescent flysch sedimentation (190 to 160 Ma)
- (2) Moderate deformation associated with lower greenschist facies regional metamorphism during Cretaceous time reached its thermal peak about 110 to 90 Ma.
- (3) Stocks and dykes of the Coast Range batholith intruded the deformed rocks in early to middle Eocene time, 55 to 45 Ma. followed by a 20-million-year period of microdiorite dyke and biotite lamprophyre dyke emplacement.

The older rocks in the volcanic-sedimentary sequence are andesitic to dacitic volcanic rocks with interbedded sedimentary facies that were deposited in a volcanic pile in an island arc setting. The younger rocks were deposited in a successor basin, the Bowser Basin, the development of which was initiated in late Triassic time. From oldest to youngest, the main units of the Hazelton Group in the area as described by Alldrick (1985) and Britton and Alldrick (1988) are the Andesite Sequence, the Coarse Clastic Sequence, Felsic Volcanic Sequence and the Siltstone Sequence (Figures 5 and 6).

The Andesite Sequence (Unuk River Formation; Units 1 and 2, Figure 5) according to Alldrick and Britton (1988) includes a lower predominantly sedimentary sequence comprised of immature sandstones, fine grained conglomerate, siltstones and mixed epiclastic-pyroclastic rocks, and an upper predominantly volcanic unit comprised of andesitic tuffs and breccias with subordinate flows and air-fall tuffs. Thickness is thought to exceed 2000 metres.

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. Schematic stratigraphy, Sulphurets map area. A = and esitic volcanics; D = dacitic volcanics; S = siltstones; C = conglomerates; stipple = sandstones.



Geology and mineral deposits, Sulphurets map area.

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INTRUSIVE ROCKS

+++ Lee Brant Stock

Mount John Walker Porphyry

Mitchell-Sulphurets Intrusions: monzonite (M), syenite (S), and granite (G)

Potassium-feldspar-plagioclase-hornblende porphyry trachyandesite

VOLCANIC AND SEDIMENTARY ROCKS: Units

SYMBOLS

Phyllite belt	
Gossan	
Fault (U = up; D = down)	·····
Contact	
Syncline; anticline	ŧŧ
Bedding; foliation	مر سر
Mine under development	*
Prospect	
Access road under construction	

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	MINERAL OCCURRENCES	COMMODITY
	NAME	
Α	Konkin	Au, Cu, Pb, Zn
В	Treaty	Gossan
С	Iron Čap	Cu, Au
D	Mitchell	Cu
Ĕ	Kirkham	Cu
F	Snowfield	Au, Mo
G	Sulphurets	Cu, Mo, Au
Н	Hanging Glacier	Au, Ag
1	Kerr	Au, Cu
J	Goldwedge	Au, Ag
К	Red River	Au, Ag
L	Shore Zone	Au, Ag, Pb, Zn
М	West Zone	Au, Ag, Pb, Zn
N	Spine Zone	Au
0	Knip	Ag, Pb, Zn
Р	Delta	Ag, Pb, Zn
Q	Tribe	Au
R	Gamma	Ag, Pb, Zn

The Coarse Clastic Sequence (Betty Creek Formation) included volcaniclastic rocks of intermediate to felsic composition, mostly feldspar crystal dacites. The unit is estimated to be 700 to 1200 metres thick.

The Felsic Volcanic Sequence (Mount Dilworth Formation) consists predominantly of felsic pyroclastic rocks. The unit is reported to range from 75 to 150 metres thick, locally it is strongly pyritic.

The Siltstone Sequence (Salmon River Formation) consists of dark grey siltstone and fine grained sandstone. The strata represents renewed marine sedimentation following subsidence of the arc complex following volcanism.

The largest intrusive rock is the Lee Brant stock, of Eocene Age which lies immediately to the west of the HAT property. It consists of a coarse-grained homogeneous hornblende-biotite quartz monzonite.

A wide variety of syn and post volcanic hypabyssal intrusive rocks are present in the vicinity of the of the Sulphurets and Mitchell glaciers. They are intimately associated with copper-gold mineralization on the adjacent Kerr property.

Property Geology

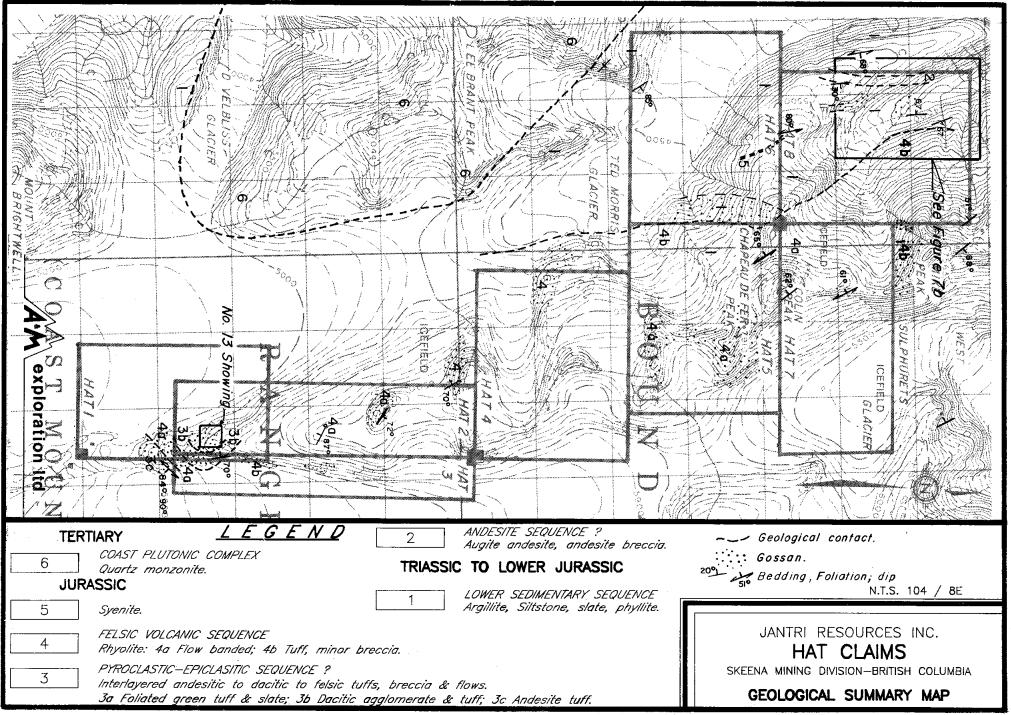
The general property geology was described by Allen, 1988 (Figure 7a). In the vicinity of the HAT 8 claim, three main rock units, presumably of the Unuk River Formation, are present (Figure 7b). Argillite and siltstone (unit 1) underly the western half of the claim and felsic pyroclastics and flows (unit 4) underly the eastern half. Sandwiched in the sedimentary unit is a thin sequence of andesite and andesite breccia (unit 2).

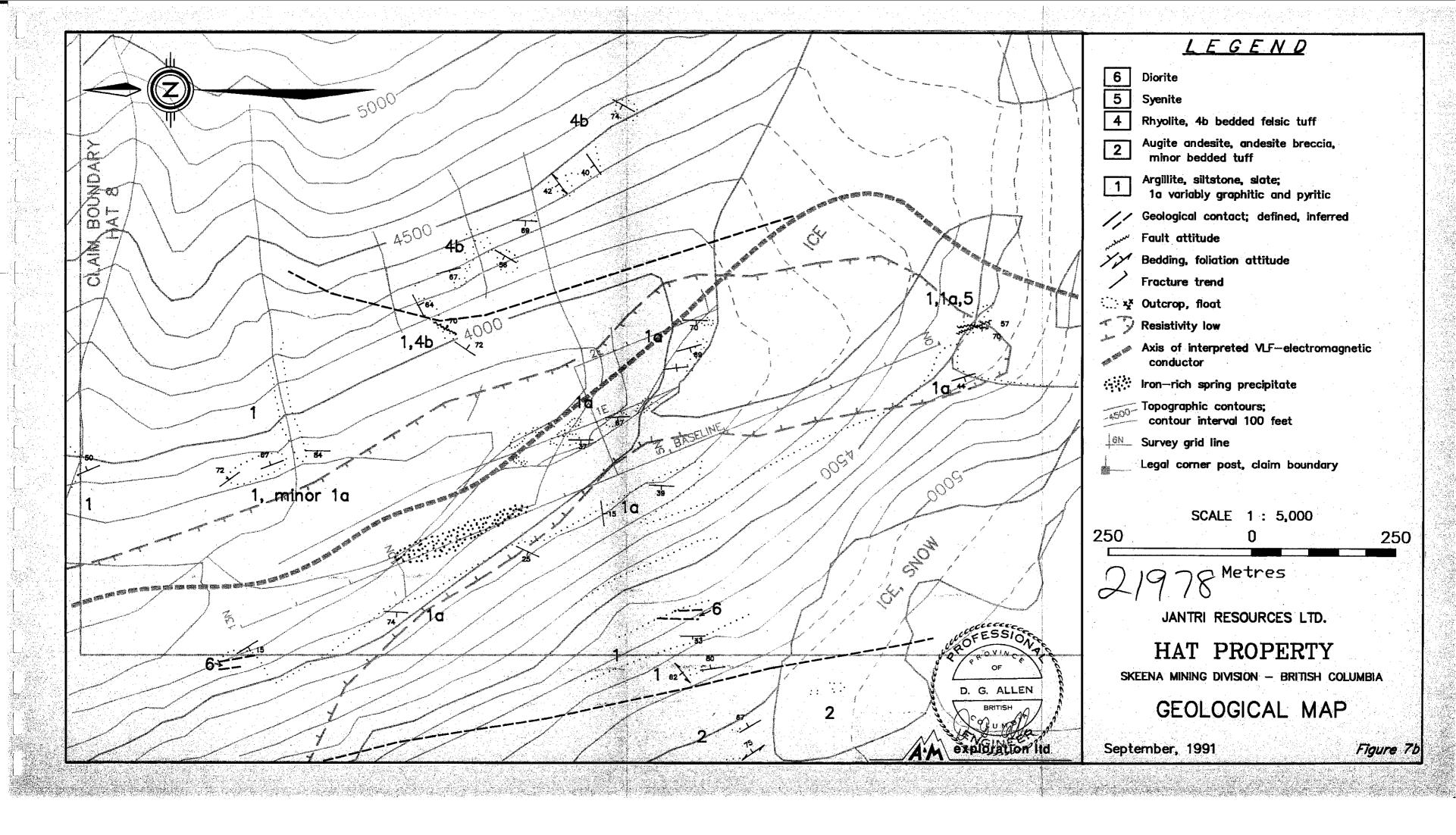
Unit 1 comprises, grey to bluish grey to black argillite, shale and siltstone. In the west central part of the HAT 8 claim, the unit contains variable amounts of graphite and locally contains abundant disseminated pyrite. In places thin beds of light grey tuff of felsic composition, also containing disseminated pyrite, are present.

A prominent bed of andesite and andesite breccia (unit 2) at least 100 metres thick outcrops on the western edge of the claim. The rock typically is greenish grey in color with abundant euhedral phenocrysts of

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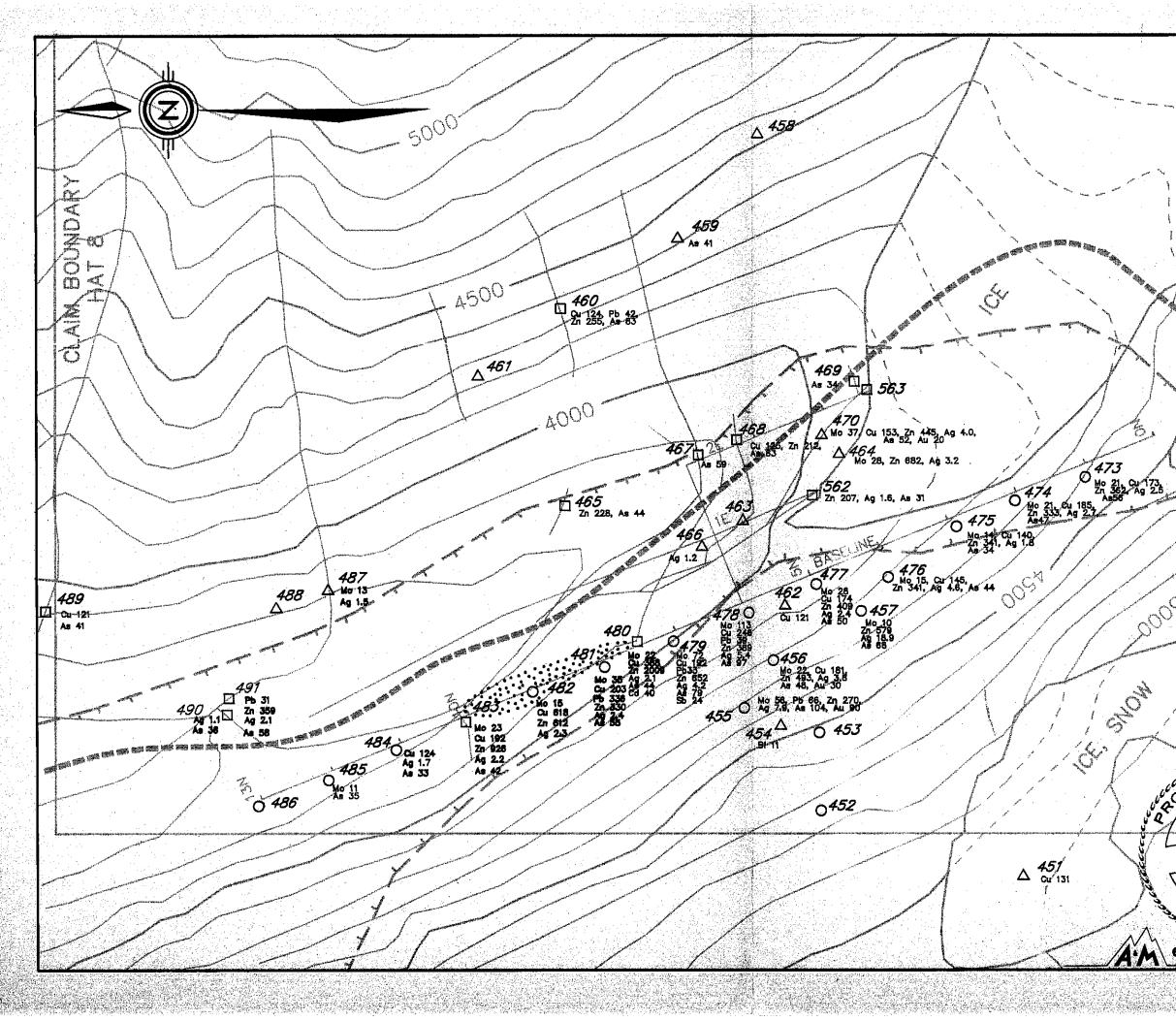
GEOCHEMICAL SURVEY

Method

A total of 15 rock, 16 soil and 10 stream sediment samples were collected in conjunction with mapping and prospecting. Rock samples usually comprised one to two kilograms of representative rock chips collected over an area of 5 to 20 square metres. Rock sample descriptions are presented in Appendix I. To assist in evaluating the steep slopes on the west side of the claim a flagged line was established. Soil samples were collected at 100 metre intervals along the base line. Samples consisted mainly of talus fines collected at shallow depths of 5 to 25 centimetres, although one sample (482) consisted of a white to yellow cold spring precipitate. Stream sediment samples consisted of unsorted gravel and fines collected from the active part of the stream channel. Samples were shipped to Rossbacher Laboratory Ltd. for gold analysis by standard atomic absorption techniques and 30 element analysis by inductively coupled plasma spectrometry. Sample sites are plotted on Figure 8 along with selected anomalous metal values. A few sample sites from 1988 work are also plotted. Sample results are presented in Appendix II.

Results

Examination of the geochemical data reveals a large number of anomalous concentrations of a variety of elements including molybdenum (up to 113 parts per million), copper (up to 618 ppm), lead (up to 66 ppm), zinc (up to 2000 ppm), silver (up to 18.9 ppm), arsenic (up to 169 ppm), cadmium (up to 40 ppm), antimony (up to 24 ppm), bismuth (up to 11 ppm), tungsten (up to 20 ppm) and gold (up to 90 ppb) both in soils and rock samples. While many of these elements are considered to be pathfinder elements for gold, such elements are commonly enriched in carbon-rich black shales (e.g. Huych, 1990). It is therefore concluded that the anomalies are related to metal accumulations in the black sedimentary rocks that underlie much of the claim area.



LEGEND **△**⁴⁵⁵ Rock sample site, sample number; selected metal values Au 90 0⁴⁵⁷ Soil sample site, sample number; Ag 18.9 selected metal values ☐ 460 Silt sample site, sample number; selected metal values As 83 471 Restivity low Axis of interpreted VLF-electromagnetic 472 472 324 Iron-rich spring precipitate Topographic contours; -4500contour interval 100 feet 6N Survey grid line Legal corner post, claim boundary 000S SCALE 1 : 5,000 250 250 0 S ON 21978 Metres ROVIN JANTRI RESOURCES LTD. HAT PROPERTY D. G. ALLEN SKEENA MINING DIVISION - BRITISH COLUMBIA BRITISH COLUM GEOCHEMICAL MAP exploration Itd. A.M September, 1991 Figure 8

DISCUSSION OF RESULTS

The central part of the electromagnetic anomalies is underlain by black argillite and siltstone of unit 1. Unfortunately, the anomalous area lies along the valley bottom, where outcrops are sparse. However, there are some scattered outcrops near the toe of the glacier. Those along the lower valley walls locally contain abundant graphite. The low resistivities and the strong electromagnetic anomalies can probably be explained by the presence of graphite-rich beds within the sedimentary unit. Similarly, the geochemical anomalies obtained in soils in the area can be explained by metal accumulations characteristic of metalliferous Black shales however are associated with a carbon-rich black shales. variety of types of ore deposits of sedimentary-exhalative origin. The Eskay Creek deposit (25 kilometres to the northwest) for example is hosted in a highly carbonaceous mudstone unit up to 60 metres thick, overlying a rhyolitic unit and is in turn overlain by andesite flows and breccias (Blackwell, 1990). The recent discovery by Granges-Springer-Cove on their Unuk River property, five kilometres south of Eskay Creek, also occurs in felsic volcanics and argillite (September 24, 1991 news release: Granges Inc., Springer Resources Ltd., and Cove Resources Ltd.).

Of particular interest are anomalous gold values of 90 and 30 parts per billion (Sample site 455 and 456) on the slopes south of the baseline. The geologic setting on the HAT 8 claim appears to be similar.

CONCLUSION AND RECOMMENDATION

The sedimentary rocks outcropping on the HAT 8 claim appear to contain enough carbon (graphite) to explain the strong conductors delineated in the airborne electromagnetic survey. However, bedrock exposures in the heart of the conductive zone are few. The geologic environment, comprising pyritic sedimentary rocks sandwiched in between volcanic rocks, indicates an environment favorable for the presence of *stratabound* sedimentary-exhalative sulfide deposits. The presence of elevated metal values in soils and rock is also a favorable feature. Additional sampling is warranted, particularly in the vicinity of anomalous gold sites.

A program of geophysical follow-up is recommended. Induced polarization and resistivity surveys as suggested by Podolsky (1990) would assist in defining in detail the conductive horizons. Alternatively, Genie SE-88 electromagnetic surveys, which are relatively insensitive to topography, would be useful in establishing strike and direction of dip of the conductors. Any strong conductors could be subsequently tested with a series of short diamond drill holes.

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CERTIFICATE

I, Donald G. Allen, certify that:

- 1. I am a Consulting Geological Engineer, at A & M Exploration Ltd., with offices at Suite 704, 850 West Hastings Street, Vancouver, British Columbia, V6C 1E1.
- 2. I am a graduate of the University of British Columbia with degrees in Geological Engineering (B.A.Sc., 1964; M.A.Sc., 1966).
- 3. I have been practising my profession since 1964 in British Columbia, the Yukon, Alaska and various parts of the Western United States.
- 4. I am a member in good standing of the Association of Professional Engineers of British Columbia.
- 5. This report is based on fieldwork carried out personally on the HAT property during the period August 23 to September 7, 1988, and September 13 to 15, 1991.
- 6. I have no interest, nor do I expect to receive any, in the HAT property or in Jantri Resources Inc.



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Donald G. Allen P. Eng. (B.C.)

December 15, 1991 Vancouver, B.C.

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APPENDIX I

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Sample Description

ROCK SAMPLE DESCRIPTIONS

HAT PROPERTY

Sample No.

Description

- 106451 Bedded tuff containing locally abundant anastamosing veins of massive white quartz with carbonate, scattered disseminated cubes of pyrtie, and dots of chlorite. Some disseminated pyrite with tuff adjacent to quartz veins.
 - 452 Slate, dark bluish grey in color, weakly limonite-stained but no visible sulfides.
 - 453 Slate, dark grey to greenish grey in color, monor pyrite disseminated along folitation planes.
 - 454 Slate, moderately graphitic, locally abundant thin pyriterich beds, pyrite in scattered quartz seams along foliation and as cross cutting veinlets.
 - 458 Siliceous tuff with locally abundant fine-grained disseminated along foliation planes.
 - 459 Phyllitic tuff with scattered vuggy, rusty weathering quartz veins with 5% disseminated cubes of pyrite.
 - 461 Felsic tuff float, silicified and quartz veined.
 - 462 Black shale, pyrite locally abundant in cross cutting seams and along bedding planes.
 - 463 As above, with scattered stringers and thin lenses of carbonate.
 - 464 Black siltstone-shale, abundant disseminated pyrite in some graphitic beds.
 - 466 Light and dark grey laminated siltstone and shale, abundant disseminated cubes of pyrite throughout.
 - 470 Black graphitic and pyritic shale, white carbonate seams and veinlets common.
 - 471 Interlayered black silstone and light grey tuffaceous siltstone with disseminated pyrite.
 - 487 Shale, locally graphitic, abundant pyrite in fine streaks along bedding planes.
 - 488 Diorite dike 2 metres wide containing irregular quartz veins containing calcite and pyrrhotite.

APPENDIX II

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Analytical Results

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ROSSBACHER LABORATORY LTD.

CERTIFICATE OF ANALYSIS

JANTRI RESOURCES INC. To: #6-117 E 15th STREET N VANCOUVER, B.C. Project: HAT PROPERTY ICP

Type of Analysis:

2225 Springer Ave., Burnaby, British Columbia, Can. V5B 3N1 Ph:(604)299-6910 Fax:299-6252

Certificate:	91203
Invoice:	91283
Date Entered:	91-10-01
File Name:	JRI91283.I
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A	1064	63	5	70	1	125	0.7	24	18	1031	4.01	2	ND	ND	166	1	1	1	58	б.06	0.22	12	19	1.55	92	0.07	2.03	80.0	0.14	1	2	5			
A	1064	8000 A. A.	28	114	19	682	3.2	80	16	623	2.93	27	ND	ND	119	15	5	5	99	4.00	0.17	13	25	1.02	120	0.03	1.09	0.06	0.10	6	2	5			 A set of a set
Α	1064	1965 I.S. 16	8	67	5	144	1.2	37	14		3.30	12	ND	ND	88	1	4	5	38	3.22	0.000.0000	4	1999-999	1,11		6.60000000	1.34	ndadadbur	Managara I.	6	1	5			
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ι	1064	56	22	186	6	493	3.8	98	30	1350	5.10	49	ND	ND	51	5	2	1			0.08	11		1.22				0.03		1	2	30			
ι	1064	57	10	145	28	579	18.9	57	23	3501	4.60	68	ND	ND	49	6	16	1	74	0.75	0.08	12	16	1.17	146	0.14	1.52	0.04	0.15	1	· 1	10			
L	1064			124	42	255	0.5	35	28	1310	4.64	83	ND	ND	45	1	5	1	94	0.60	0.09	16	16	1.49	85	0.17	2.26	0.05	0.36	1	2	5			
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	1064 1064	S. 4930.	4	125	27 7	212	0.7	34		1405		63	ND	ND	91		9	4	105		0,12	14		1.54				0.06		11		5			
	1064		2 32	92 189	31	141 487	0.4 3.6	14 110	26 38		4.56	34 169	ND ND	ND ND	82 50	5	16	1	120 60	1.17	0.11	13 12	16 9	1.50			2.06	0.05		10 11		5 10		신경환	
	1064	89.89 C.		173	19	362	2.5	91	1		5,15	56	ND	ND	43	1	Ę			0.44	0.07	13		1.05		0.05		0.04		6		10	482.7	나는 사람이 있다.	
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L	1064	77	28	174	12	409	2.4	107	40	1416	5.27	50	ND	ND	75	4	6	1	69	1.49	0.12	11	15	1.38	191	0.07	1.81	0.04	0.11	14	2	10			
L	1064	000000.000	si porte per	246	39	389	5.4	90	52	2093	7 .07	97	ND	ND	22	3	13	1	86	0.12	0.08	13	10	1.34	132	0.02	2.11	0.05	0.09	8	2 2030-00		No comp		- 1.00000008-0006
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	1064		n 1999 - 19	203	36	330	2.4	78		1179	2	55	ND	ND	34	3	17	1		0,44		12		1,31			2.01			9		5			
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1	1064			106	5	150	0.7	44	32	805	3.98	24	ND	ND	47	2	10				0.08	9		1.34				0.04		8	2	5			
L	1064			121	17	240	0.9	54	30	860	4.38	41	ND	ND	41	2	11	1			0.08	12		1.45				0.04		5					
Ļ	1064	90	4	59	25	159	1.1	23	27		3.28	36	ND	ND	25	1	5	1			0.05	14		0.91			1,22			5	-	5			

CERTIFIED BY Rao

ROSSBACHER LABORATORY LTD.

CERTIFICATE OF ANALYSIS

To: JANTRI RESOURCES INC. #6-117 E 15th STREET N VANCOUVER, B.C. Project: HAT PROPERTY ICP

Type of Analysis:

2225 Springer Ave., Burnaby, British Columbia, Can. V5B 3N1 Ph:(604)299-6910 Fax:299-6252

Certificate:	91203
Invoice:	91283
Date Entered:	91-10-01
File Name:	JRI91283.I
Page No.:	2

PRE F1X	SAMPLE NAME	РРМ МО	PPM CU	РРМ РВ	PPM ZN	PPM AG	PPM N1	PPM CO	PPM MN	% FE	PPM AS	РРМ AU	РРМ HG	PPM SR	PPM CD	PPM SB	PPM B1	PPM. V	% CA	% P	PPM LA	PPM CR	% MG	РРМ ВА	% T I	% AL	% NA	% К	РРМ ₩	PPM BE	PPB AU AA		
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APPENDIX III

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Affidavit of Expenses

AFFIDAVIT OF EXPENSES

This will certify that prospecting, geological mapping and geochemical sampling was carried out on the HAT property, Sulphurets Creek area, Skeena Mining Division, British Columbia to the value of the following.

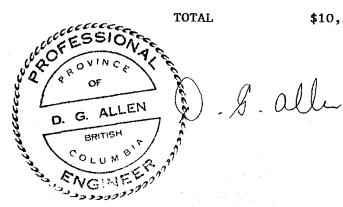
Mobilization and Fieldwork

Engineering fees D.G. Allen	\$ 2,300.00
Room and Board	527.16
Helicopter	2,086.30
Vehicle rental, gas	718.68
Telephone	118.40
Field supplies	25.84
Geochemical Analyses	553.82

Report

D.G. Allen D. Rotherham	(consulting fee)	920.00 346.08
Draughting, typing, compilation		661.25
Maps, photocopying		230.00
Management and overhead: Jang Engineering		1,812.00

	Subtotal	\$10,299.53
G.S.T.	on \$3,575.00	250.25



\$10,549.78