

81-#992.-#9766

Geological Reconnaissance Assessment Report

on portions of the

JESSI 1 and JESSI 2  
Mineral Claims

Situated

24 km Northeast of Hope, B. C.  
in the New Westminster Mining Division

N.T.S. 92H/6 (east half)

Latitude 49°30'N., Longitude 121°15'W

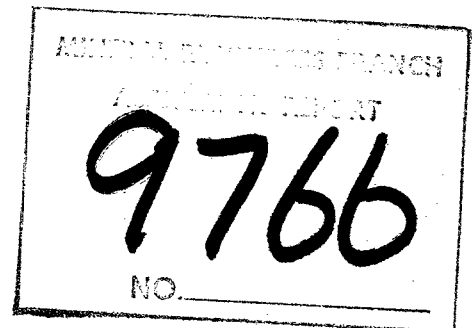
Field Work June 15 to July 23, 1981

for

AQUARIUS RESOURCES LTD. of Vancouver, B. C.

Report by

D. G. Cardinal, P. Geol.,  
Aquarius Resources Ltd.,  
September, 1981  
Vancouver, B. C.



AQUARIUS RESOURCES LTD.



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A. Introduction

The Jessi 1 and Jessi 2 mineral claims which make up a total of 148 units are located approximately 24 km northeast of Hope, B. C., and can be reached by a four wheel drive vehicle. The claims straddle the Hozameen Fault and a complex sequence of ultramafics, volcanics and sedimentary suites which form the southern portion of what is known as the "Coquihalla Gold Belt".

This summers' (1981) field season consisted mainly of reconnaissance mapping at a scale of 1:15,000 (1cm=150m) with geochemical soil and bulk rock sampling in areas of interest. The geology mapped is composed of serpentized ultramafics and mafic intrusives that form part of the Serpentine Belt. The Serpentine Belt is faulted (Hozameen Fault) against the Ladner Group slates which overlie volcanics and tuffaceous sediments. The structure and geology found on the central portion of the Coquihalla Gold Belt which hosts the Carolin gold deposit and other small former gold producers is also found on the Jessi mineral claims. The tectonic setting and geological elements encountered are similar, thus holding good potential for a similar type of mineralization.



This report is for assessment work credits and is part of an on-going mapping and sampling program carried out on the Jessi Group claims.



B. Location and Access

The Jessi Project is centered 24 km northeast of Hope, B. C., roughly between latitudes  $49^{\circ}22'$  to  $49^{\circ}29'$  and longitudes  $121^{\circ}11'$  to  $121^{\circ}15'$ . Latitude  $49^{\circ}25'$  divides the Jessi Project into two groups, Jessi 1 to the north and Jessi 2 to the south. Access is via the Coquihalla River road, which is well maintained and open year round.

Jessi 1 occupies a north, northwest trending ridge bounded to the north and east by Dewdney Creek and to the west and south by Sowaqua Creek and the Coquihalla River respectively. The above mentioned creeks flow northwest into the south flowing Coquihalla River. Jessi 2 is immediately south of Jessi 1 and straddles Sowaqua Creek for 8 km south of Serpentine Lake. (Fig JG 2&3).

Normal conditions prevailing, the east side of Jessi 1 is reached by 4 x 4 vehicle via Dewdney Creek logging road. Last year's very mild winter (1980-81) combined with extensive rainfall resulted in this road being washed out in several places, severely restricting access. An oil pipeline conveniently skirts the western



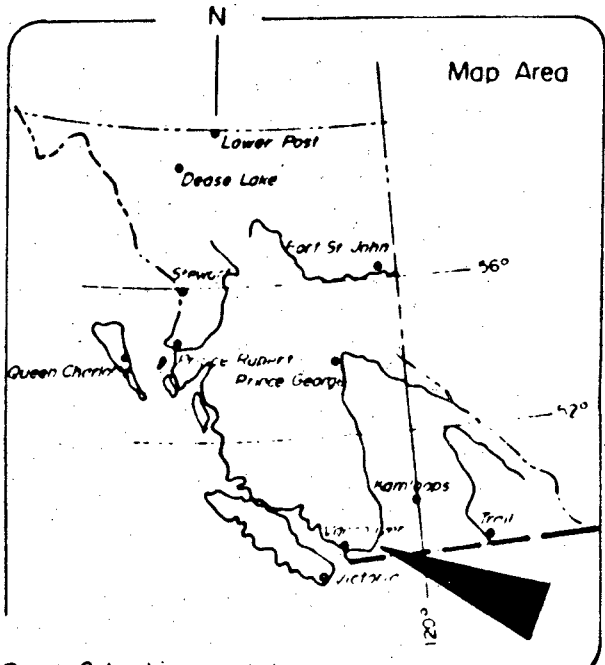
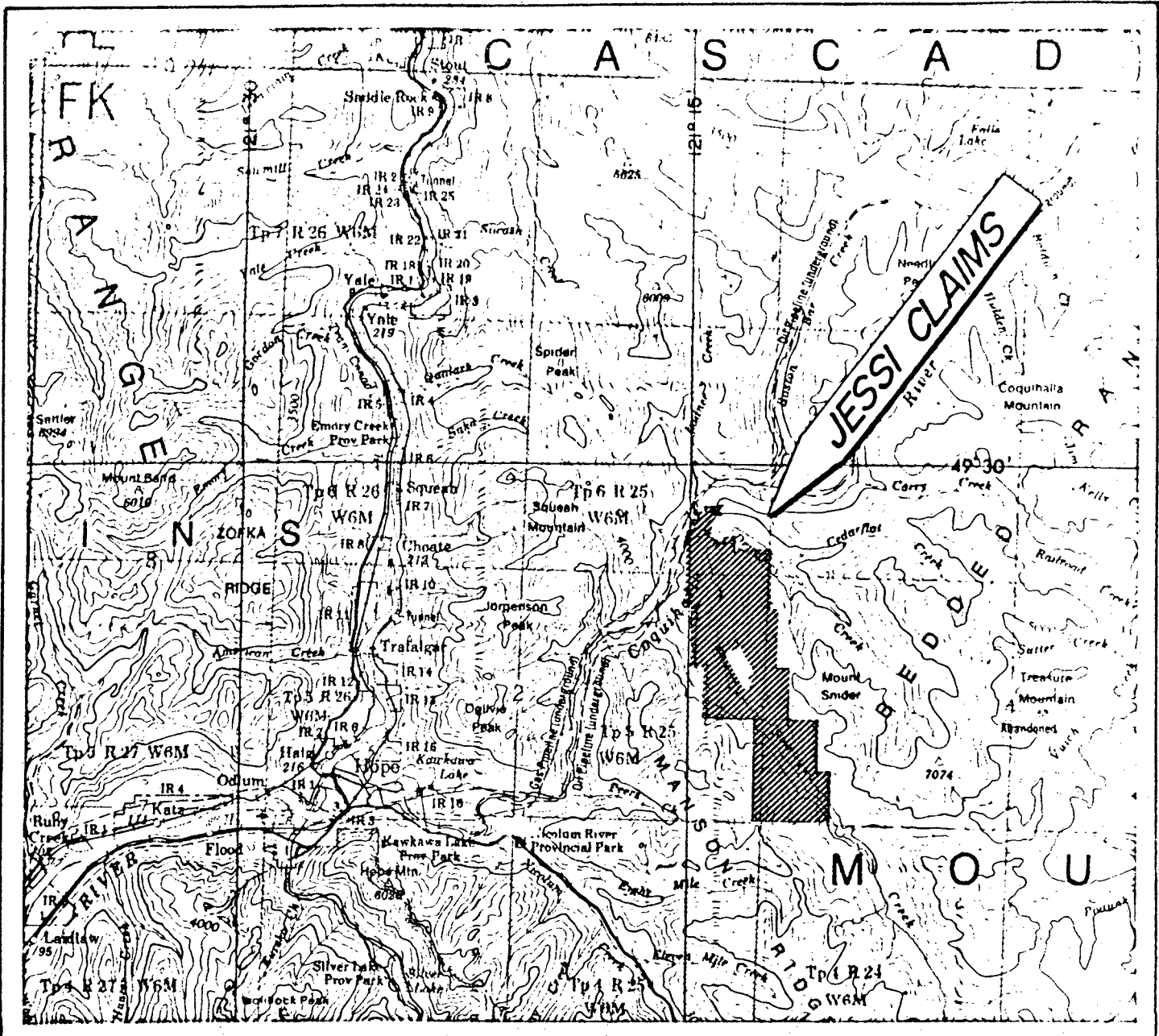
margin and can be traversed with a 4 wheel drive vehicle. A well marked foottrail provides a pleasant 2 hour hike to Serpentine Lake from the pipeline commencing 2 km northwest from the Jessi C legal corner post.


Sowaqua Creek logging road provides the only means of approach to Jessi 2, also by means of a 4 x 4 vehicle.

The majority of the claims area is accessible only by foot from the above mentioned logging roads and trail. This usually involves a steep climb through dense woods. A more efficient mode of transportation is the use of helicopter support.

The N.T.S. code for the area is 92H/6 (east half) Serpentine Lake is located at 49°26'N., latitude and 121°14'W. longitude.

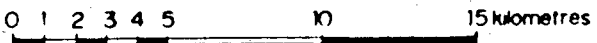





**AQUARIUS RESOURCES LTD.**  
 Jessi Claims      New Westminster M. D.  
 Dewdney Creek Area      N. T. S. 92H/6E

Location Map      Figure JG-1

Scale 1 to 250,000 or 1 inch equals approx 4 miles



C. Claims Information

The Jessi 1 and Jessi 2 mineral groups cover 3,700 hectares (9142.7 acres) and are situated in the New Westminster Mining Division. The groups are owned by Aquarius Resources Ltd., 920-475 Howe St., Vancouver, B. C.

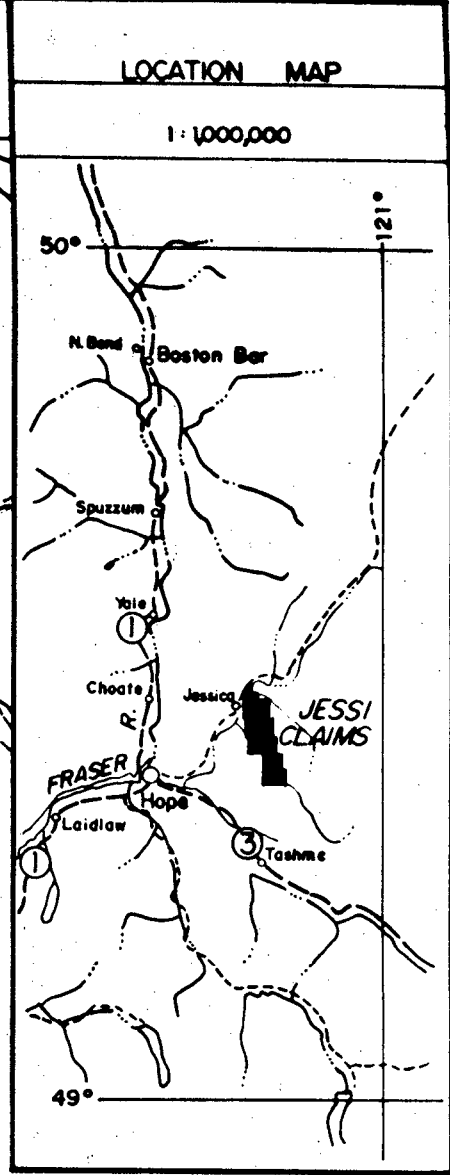
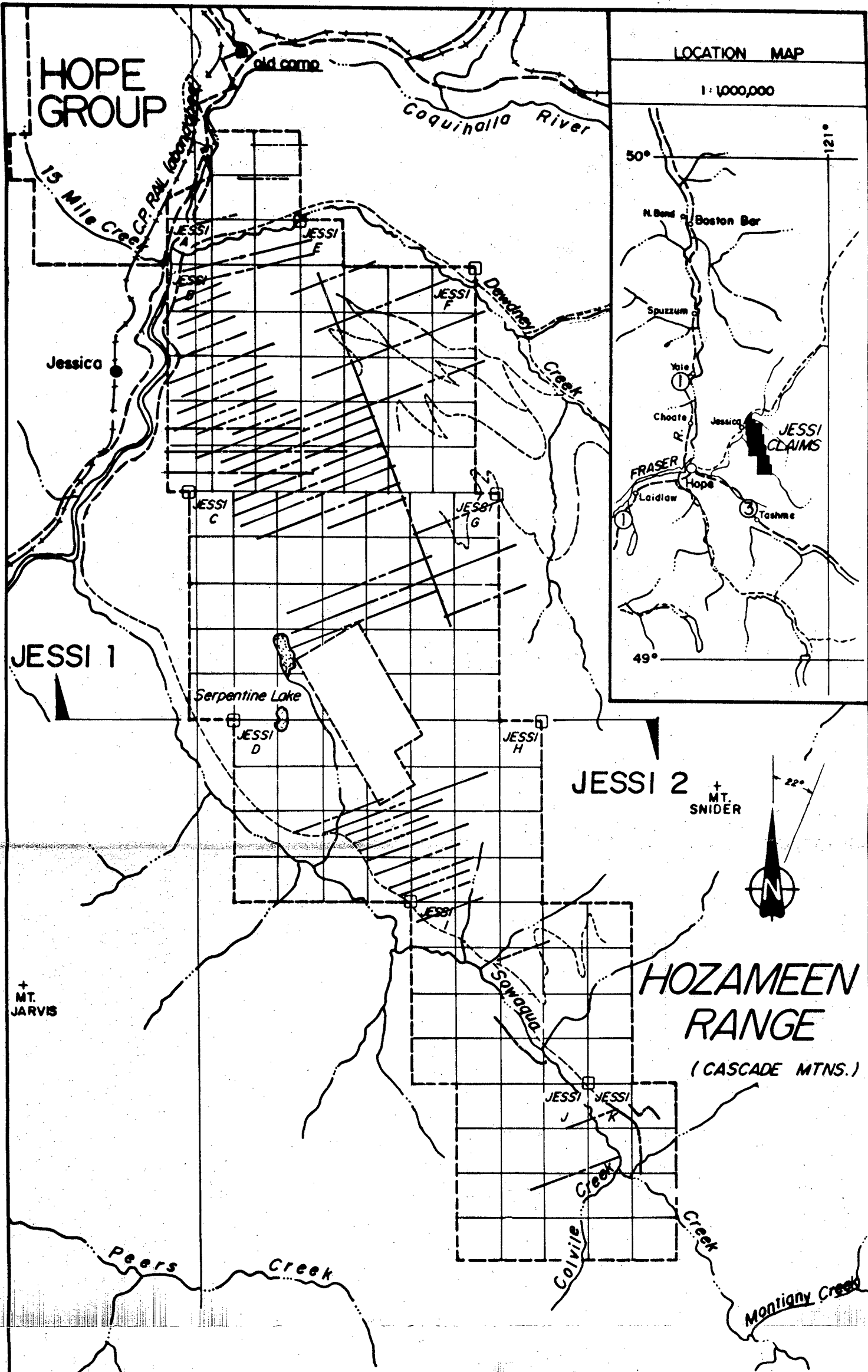
Claim details are outlined below:

CLAIM NAME	UNITS	RECORD NO.	Group (re-grouped /81)	ANNIVERSARY DATE	YEAR*
JESSI A	9	366	Jessi 1	October 16	1984
JESSI B	20	367	Jessi 1	October 16	1984
JESSI C	20	335	Jessi 1	September 20	1984
JESSI E	1	332	Jessi 1	September 20	1984
JESSI F	15	333	Jessi 1	September 20	1984
JESSI G	15	334	Jessi 1	September 20	1984
JESSI D	16	336	Jessi 2	September 20	1984
JESSI H	12	337	Jessi 2	September 20	1985
JESSI I	20	338	Jessi 2	September 20	1985
JESSI J	12	339	Jessi 2	September 20	1985
JESSI K	8	340	Jessi 2	September 20	1985

NOTE:\* includes credits applied for by this report and physical work recorded.





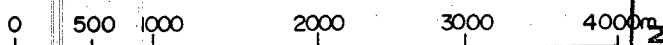


*Jessi Claims Dewdney Cr., B.C.  
New Westminster M.D. 92H/6E.*

Claim Name	Nº of Units	Record Nº	Anniversary Date
Jessi A	9	366	October 16
Jessi B	20	367	October 16
Jessi C	20	335	September 20
Jessi D	16	336	September 20
Jessi E	1	332	September 20
Jessi F	15	333	September 20
Jessi G	15	334	September 20
Jessi H	12	337	September 20
Jessi I	20	338	September 20
Jessi J	12	339	September 20
Jessi L	8	340	September 20



AQUARIUS RESOURCES LTD.



SCALE 1:50,000

CLAIMS MAP Figure JG-2

*Dan Cardin*

**9766**

MINERAL RIGHTS  
 ASSESSMENT REPORT  
 JG-1

D. General Setting and Background

The Jessi 1 (Jessi A, B, C, E, F, & G) and Jessi 2 (Jessi D, H, I, J, &K) mineral claims were staked by Aquarius Resources Ltd., in 1978 and straddle the Hozameen Fault and part of a geologically favourable belt. In previous years certain portions of this area was staked by other mining companies (i.e. Carolin Mines Ltd.) which subsequently lapsed. Presently Border Resources Ltd. holds a small claim group immediately adjacent to Serpentine Lake (Fig. JG-2)

All of the work done on the claims in the past two (2) years (1979-80) consisted of geochemical exploration programs that were supervised by Cochrane Consultants Ltd. The field season was orientated toward a reconnaissance geologic program with limited soil sampling.

The claim groups (Jessi 1 & Jessi 2) are located in a rugged and heavily rain-forested region of south western British Columbia, tucked between the coast range intrusives and the northern Cascade Mountains. The topography consists of high well exposed precipice ridges and heavily vegetated valley floors.



The claims straddle part of a major structural lineament (Hozameen Fault) and geological complex which form the southern part of what is known as the "Coquihalla Gold Belt". The belt consists of a northwest trending suite of rocks faulted by the Hozameen Fault zone. To the west of the fault is the Hozameen Group of rocks composed of chert, pelites, minor volcanics and carbonates in contact with serpentized peridotites and mafic intrusives. East of the fault are volcanic greenstones with overlying tuffaceous sediments, slates and argillites which make up the Ladner Group.

Historically the Coquihalla Gold Belt has developed small former lode gold producers and several gold occurrences. More recently the belt has given birth to a major gold discovery, the Carolin gold ore deposit. All of these auriferous findings have been spatially related to the Hozameen Fault zone.



E. Field Procedures

Two, three-man field crews which included a geologist, geological field assistant, and four field assistants worked on the Jessi mineral claims. A three man fly camp was established on the north shore of Serpentine Lake and utilized by the geologist and two field assistants. The second crew, supervised by the geological field assistant, was based at the Aquarius trailer camp on the Hope property near the mouth of Tangent Creek.

The field assistants participated in a geochemical soil sampling program of varied scale; a continuation of work done during the 1980 field season (Cochrane Consultants Ltd.). Grid lines were blazed and flagged at pre-determined intervals (50 m , 30 m , and 10 m ) using poly chains and silva compasses. Soil samples from the upper "B" soil horizon were obtained where possible at each flagged interval and placed in standard kraft paper bags marked with grid coordinates.

Samples were then shipped to Min-En Labs. Ltd., of North Vancouver, B. C. and analyzed for gold, arsenic, antimony, and mercury by Aqua Regia Digestion and Atomic



Adsorption Analysis. Results were sent to Aquarius Resources Ltd. at both Vancouver, B. C. and Hope, B. C. locations. Data was plotted on a geochemical base map (Fig. JG-3) along with results obtained during the 1980 field season by Cochrane Consultants Ltd. of Delta, B. C.

The geologist and geological field assistant mapped the geology of the area on a reconnaissance scale of 1:15,000. This was done on transparent overlays utilizing colored aerial photographs and was then transferred to a claims area base map (Fig. JG-3). Much of this seasons' (1981) mapping was carried along the Sowaqua Creek Valley, Dewdney Creek Valley, and the Serpentine Lake or summit area.



F. Geology

The geology encountered on the Jessi 1 and Jessi 2 mineral claims (Fig. JG-3) consists predominately of altered peridotites intruded by lenses of diorite in fault (Hozameen Fault) contact with volcanic greenstone and sedimentary rocks of the Ladner Group. All major rock units and structures trend about N20°W, with evidence of major cross faulting offsetting the above package.

In the Serpentine Lake area (Fig. JG-3), going from west to east on the claims (Jessi 1) a thick sequence of chert and highly foliated siliceous slates and quartzites exist and is identified as the Hozameen Group. In contact with the Hozameen Group is an extensive sequence of serpentized peridotite and narrow talc lenses intruded by unaltered bodies of medium to coarse grained diorite. This sequence of ultramafic rocks make up the Serpentine Belt.

The Hozameen Fault striking about N30°W. occurs as a fault contact between the ultramafics and the volcanic and Ladner Group sediments. The volcanic and sedimentary rocks make a conformable contact, the contact



is composed of highly silicified tuffaceous sediments and finely laminated slates and argillites. The overlying greenstone volcanics have well developed pillow structures and are believed to form the overturned basal or lower member of the Ladner Group.

Approximately 1,500 m southeast of Serpentine Lake (Fig. JG-3) is a major cross-fault striking N45°E. which appears to offset the serpentine and Ladner Group rocks. The fault has a right lateral offset with a suggested displacement of approximately 400 m. Other secondary faults occur within the ultramafic rocks forming localized talc shear zones, parallel to the major Hozameen Fault structure.

The Sowaqua Creek logging road (Fig. JG-3) cuts diagonally across the south-central portion of the Jessi 2 claim group and intersects a similar sequence of rocks discussed above (Jessi 1). The volcanic greenstones do not appear to exist at this point suggesting a pinch out or gradational facies change laterally into tuffaceous sediments and other fine grained clastics, chiefly slates and argillites.



## Mineralization

Limited amounts of mineralization were noted in at least three different localities on the Jessi 1 and Jessi 2 claims, associated with three different rock types. Coarse (1-3 mm) blebs of magnetite were noted with serpentinites and diorites just east of Serpentine Lake. Minor disseminated pyrrhotite and lesser chalcopryrite occurs with volcanic greenstones and tuffaceous sediments approximately 1,500 m southeast of Serpentine Lake. An exposed section near the southeast end of Sowaqua Creek logging road shows pyritiferous argillites and lesser pyrrhotite and chalcopryrite in quartz stringers. Alteration products consisting predominately of quartz, calcite, minor sericite and chlorite chiefly occur with the sulphides. The majority of the sulphides noted generally develop along volcanic and sedimentary contacts and along localized folds in the slates and argillites.

## Results and samples Collected

A total of 23 bulk rock samples were obtained along





portions of Sowaqua Creek and Dewdney Creek (Fig JG-3), all of the samples were assayed for gold. Results returned assayed 0.002 oz/ton.

A geochemical grid line (Fig. JG-3) was established over a portion of mineralized slate located along Sowaqua Creek logging road. Seventy-three (73) soils were collected and analyzed for gold with geochemical values ranging from 5 ppb (parts per billion) to 90 ppb. Two (2) other lines were run along the creek valley, and the samples ran between 5 ppb and 70 ppb gold.



G.            Synthesis and Conclusion

The Jessi 1 and Jessi 2 mineral claims are located near the southern end of the "Coquihalla Gold Belt".

The Hozameen Group of rocks found on the property is of Paleozoic age and consists of oceanic type sediments (eg. cherts, carbonates, slates, etc.) in contact with an ultramafic (serpentinized peridotites and pyroxenites) sequence of undetermined age. Both the Hozameen Group and the Serpentine Belt at least in part, is believed to represent a fossil oceanic crust assemblage. The Hozameen Fault zone and oceanic crust assemblage is believed to make up part of a suture zone developed during subduction or during continental-oceanic plate collision.

The greenstone volcanics and tuffaceous sediments that are suggested to form the basal member of the Ladner Group are believed to have originated in a eugeosynclinal environment. The overlying Jurassic Ladner Group sediments are also believed to have deposited within the same trough.

The mineralization and alteration features,



although limited, generally occur along the volcanic and tuffaceous sedimentary contact adjacent to the Hozameen Fault zone. The auriferous findings along the central portion of Coquihalla Gold Belt (eg. Carolin Mines Ltd., former producers - Emancipation, Pipe Stem etc.) appear to occur along this particular horizon. Further work is proposed on the Jessi 1 and Jessi 2 claims next season, concentrating exploration work along the basal member of the Ladner Group.



H. Bibliography

Cairnes, C. E.: Coquihalla Area, British Columbia  
1924: G. S. C. Memoir 1939

Cochrane, D. R.: Geochemical Assessment Report on  
1980 Portions of the Jessi Group

Monger, J. : Hope Map Area, West half, B. C.  
G. S. C. Paper 69-47



APPENDIX I

Assessment Work Details

Personnel

D. G. Cardinal, P. Geol.

July 10-17, 1981

7 days @ \$200/day .....\$1,400.00

Geologist,

June 15-July 23, 1981

38 days at \$200/day ..... 7,600.00

Geological Assistant,

June 15-July 23, 1981

38 days at \$150/day ..... 5,700.00

Field Assistant,

June 15-July 23, 1981

38 days at \$100/day ..... 3,800.00

Field Assistant,

June 15-July 23, 1981

38 days at \$100/day ..... 3,800.00

Field Assistant,

June 15-July 23, 1981

38 days at \$100/day ..... 3,800.00

Field Assistant,

June 15-July 23, 1981

38 days at \$100/day ..... 3,800.00

Cont'd..



APPENDIX I (cont'd)

Field Assistant,  
 June 15-July 23, 1981  
 38 days at \$100/day ..... \$ 3,800.00

Field Assistant,  
 June 15-July 23, 1981  
 38 days at \$100/day ..... 3,800.00

Camp Cook,  
 June 15-July 23, 1981  
 38 days at \$81/day ..... 3,078.00

EXPENSES

Camp Supplies ..... 1,115.14  
 Field Supplies ..... 2,814.04  
 Min-En Labs Ltd.,  
 124 soil samples @ \$10.44/sample ..... 1,294.07

Bondar-Clegg & Co. Ltd.,  
 23 rock samples  
 21 analyzed for Au @ \$8/sample  
 2 analyzed for Au & As @ \$18/sample ..... 204.00

Helicopter Support,  
 4.9 hr @ \$415/hr + fuel & oil ..... 3,316.02

Vehicle Expense,  
 2 4 x 4's @ \$450/mo/vehicle  
 + fuel and oil ..... 1,780.00

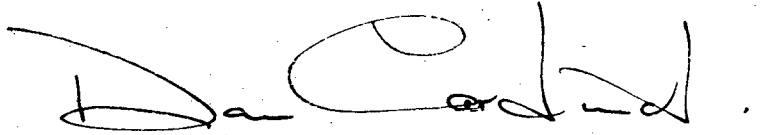
Cont'd..



APPENDIX I (cont'd)

Geologist report writing	
6 days at \$200/day .....	1,200.00
Typing and office,	
10 hrs at \$14/hr .....	140.00
Drafting,	
40 hrs at \$18.50/hr .....	740.00
Reproduction, collating, binding .....	<u>100.00</u>
Total costs .....	\$53,181.62
Withdraw from PAC .....	<u>10,018.38</u>
Total Assessment Credits	\$63,200.00

Respectfully submitted



Dan Cardinal, P. Geol.

October, 1981

Vancouver, B. C.



APPENDIX II

Geochemical Analysis Data Sheets





# MIN-EN Laboratories Ltd.

705 WEST 15th STREET,  
NORTH VANCOUVER, B.C., CANADA V7M 1T2  
TELEPHONE (604) 980-5814

## ANALYTICAL REPORT

Project ..... Date of report July 30/81.

File No. 1-476 ..... Date samples received July 14/81.

Samples submitted by: .....

Company: Aquarius Resources .....

Report on: 45 soil ..... Geochem samples

..... Assay samples

Copies sent to:

1. Aquarius Resources, Vancouver, B.C.
2. ....
3. ....

Samples: Sieved to mesh -80 ..... Ground to mesh .....

Prepared samples stored  discarded

rejects stored  discarded

Methods of analysis: As-Spectrophotometric, Au-Aqua Regia.

Hg-Flameless A.A.

Remarks: Charge to Jassi Group.

SPECIALISTS IN MINERAL ENVIRONMENTS

PROJECT No.: Hope Project

MIN - EN Laboratories Ltd.

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

*Sample*  
*OK*

DATE: *10/25/81*

ATTENTION:

Sample Number	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb				
6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
SW1-1							.			9		20				
2							.			No Sample						
3							.			14		5				
4							.			No Sample						
5							.			15		5				
6							.			16		5				
7							.			27		5				
8							.			22		5	(40 Mesh)			
9							.			7		10				
10							.			24		5				
11							.			8		5				
12							.			13		5				
13							.			53		5				
14							.			21		5				
15							.			34		5				
16							.			11		<5				
17							.			51		5				
18							.			68		5				
19							.			28		5				
20							.			No Sample						
21							.			141		5				
22							.			1200		70				
23							.			23		5				
24							.			14		5				
25							.			73		5				
26							.			28		5				
27							.			200		10				
28							.			119		5				
29							.			62		5				
SW1-30							.			85		5				

*[Handwritten signature]*

PROJECT No.: **Hope Project**

MIN - EN Laboratories Ltd.

DATE: **July 30**

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

**1981.**

ATTENTION:

Sample. Number	6 ppm	10 ppm	15 ppm	20 ppm	25 ppm	30 ppm	35 ppm	40 ppm	45 ppm	50 ppb	55 ppm	60 ppm	65 ppb	70	75	80
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
<b>SW2-0 Meters</b>										<b>45</b>			<b>5</b>			
<b>SW2-30</b>										<b>10</b>			<b>&lt;5</b>			
<b>60</b>										<b>20</b>			<b>5</b>			
<b>90</b>										<b>25</b>			<b>5</b>			
<b>120</b>										<b>20</b>			<b>&lt;5</b>			
<b>150</b>										<b>20</b>			<b>5</b>			
<b>180</b>										<b>30</b>			<b>5</b>			
<b>210</b>										<b>45</b>			<b>5</b>			
<b>240</b>										<b>40</b>			<b>&lt;5</b>			
<b>270</b>										<b>65</b>			<b>&lt;5</b>			
<b>300</b>										<b>15</b>			<b>&lt;5</b>			
<b>330</b>										<b>35</b>			<b>5</b>			
<b>360</b>										<b>30</b>			<b>5</b>			
<b>390</b>										<b>20</b>			<b>10</b>			
<b>420</b>										<b>35</b>			<b>15</b>			
<b>450</b>										<b>15</b>			<b>5</b>			
<b>480</b>										<b>30</b>			<b>10</b>			
<b>SW2-510</b>										<b>20</b>			<b>20</b>			

# MIN-EN Laboratories Ltd.

705 WEST 15th STREET,  
NORTH VANCOUVER, B.C., CANADA V7M 1T2  
TELEPHONE (604) 980-5814

## ANALYTICAL REPORT

Project Sawaqua River Date of report Aug. 25/81.

File No. 1-683 Date samples received Aug. 15/81.

Samples submitted by: .....

Company: Aquarius Resources

Report on: 63 soils Geochem samples

..... Assay samples

Copies sent to:

1. Aquarius Resources, Vancouver, B.C.

2. ....

3. ....

Samples: Sieved to mesh -80 Ground to mesh .....

Prepared samples stored  discarded

rejects stored  discarded

Methods of analysis: Hg-Acid digestion-flameless A.A.

Au-Aqua Regia A.A.

Remarks: .....

SPECIALISTS IN MINERAL ENVIRONMENTS

GEOCHEMICAL ANALYSIS DATA SHEET

PROJECT No.: **Sawaqua River**

MIN - EN Laboratories Ltd.

DATE: **Aug. 25**

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

1981.

ATTENTION:

Sample. Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
		* ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb			
	81	86	90	100	105	110	115	120	125	130	135	140	145	150	155	160
SW3-BI-60-90S								.		20			10			
								.		35			5			
								.		25			10			
								.		10			5			
								.		5			5			
								.		5			10			
								.		30			10			
								.		No Sample						
								.		70			5			
								.		75			5			
								.		65			15			
SW3-BI-60-200S								.		50			15			
SW3-00-00S								.		20			5			
		10						.		35			5			
		20						.		60			10			
		30						.		30			5			
		40						.		25			5			
		50						.		40			40			
		60						.		60			5			
		70						.		50			5			
		80						.		No Sample						
		90						.		20			10			
		100						.		50			10			
		110						.		45			15			
		120						.		10			5			
		130						.		No Sample						
		140						.		70			15			
		150						.		190			10			(40 Mesh)
		160						.		95			30			
SW3-00-170S								.		No Sample						

*[Handwritten signature]*

GEOCHEMICAL ANALYSIS DATA SHEET

PROJECT No.: **Sawaqua River**

MIN - EN Laboratories Ltd.

DATE: **Aug. 25**

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

1981.

ATTENTION:

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
		X <sup>o</sup> XX	X <sup>o</sup> XX	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb			
	81	86	90	100	105	110	115	120	125	130	135	140	145	150	155	160
SW3-BL-30-00S								.		30			5			
			10					.		10			25			
			20					.		15			10			
			30					.		35			15			
			40					.		60			5			
			50					.		30			10			
			60					.		40			5			
			70					.		45			30			
			80					.		165			5			
			90					.		90			10			
			100					.		20			5			
			110					.		50			5			
			120					.		45			5			
			130					.		75			5			
			140					.		60			5			
			150					.		20			5			
			160					.		25			90			
			170					.		65			5			
			180					.		No Sample						
SW3-BL-30-190S								.		100			5			
SW3-BL-30-200S								.		20			5			
SW3-BL-60-00S								.		35			10			
			10					.		No Sample						
			20					.		15			5			
			30					.		55			5			
			40					.		40			5			
			50					.		20			15			
			60					.		45			5			
			70					.		5			5			
SW3-BL-60-80S								.		35			5			

COMP

Aquarius Resources

GEOCHEMICAL ANALYSIS DATA SHEET

No. 1-683

PROJECT No.: Sawaqua River

MIN - EN Laboratories Ltd.

DATE: Aug. 25

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2

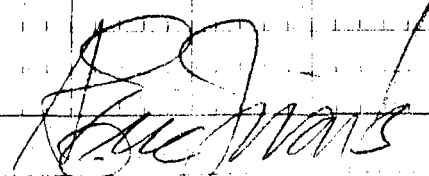
PHONE (604) 980-5814

1981.

ATTENTION:

Sample. Number	6 81	10 86	15 90	20 100	25 105	30 110	35 115	40 120	45 125	50 130	55 135	60 140	65 145	70 150	75 155	80 160
		As ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb				
SW3-00-180S										no sample						
190										no sample						
200										90		5				
210										10		5				
220										20		5				
230										80		5				
240										45		5				
250										40		5				
260										15		5				
270										55		5				
280										20		5				
290										no sample						
SW3-00-300S										no sample						

CERTIFIED BY:



GEOCHEMICAL ANALYSIS DATA SHEET

PROJECT No.: Hope Group

MIN - EN Laboratories Ltd.

DATE: July 1

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2

PHONE (604) 980-5814

1981.

ATTENTION:

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Sb ppm			
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
L34.5S1+50E.	.	.	.	.	.	.	.	.	.	.	8	.	5	5	.	.
2+00E.	.	.	.	.	.	.	.	.	.	.	46	.	5	18	.	.
2+50E.	.	.	.	.	.	.	.	.	.	.	34	.	5	35	.	.
3+00E.	.	.	.	.	.	.	.	.	.	.	45	.	5	40	.	.
3+50E.	.	.	.	.	.	.	.	.	.	.	50	.	5	15	.	.
4+00E.	.	.	.	.	.	.	.	.	.	.	24	.	5	12	.	.
4+50E.	.	.	Jesse's claims			.	.	.	.	.	12	.	5	6	.	.
5+00E.	.	.	.	.	.	.	.	.	.	.	60	.	10	7	.	.
5+50E.	.	.	.	.	.	.	.	.	.	.	480	.	135	18	.	.
6+00E.	.	.	.	.	.	.	.	.	.	.	175	.	5	22	(40 mesh)	
6+50E.	.	.	.	.	.	.	.	.	.	.	41	.	15	32	.	.
7+00E.	.	.	.	.	.	.	.	.	.	.	36	.	15	9	.	.
7+50E.	.	.	.	.	.	.	.	.	.	.	24	.	20	20	.	.
L34.5S8+00E.	.	.	.	.	.	.	.	.	.	.	18	.	10	10	.	.
L12S0+00	.	.	.	.	.	.	.	.	.	.	24	.	20	15	.	.
0+50E.	.	.	.	.	.	.	.	.	.	.	15	.	5	35	.	.
1+00E.	.	.	.	.	.	.	.	.	.	.	9	.	25	25	.	.
1+50E.	.	.	.	.	.	.	.	.	.	.	8	.	30	10	.	.
2+00E.	.	.	.	.	.	.	.	.	.	.	12	.	15	10	.	.
2+50E.	.	.	.	.	.	.	.	.	.	.	14	.	30	27	(40 mesh)	
3+00E.	.	.	.	.	.	.	.	.	.	.	10	.	40	10	.	.
3+50E.	.	.	.	.	.	.	.	.	.	.	19	.	20	28	(40 mesh)	
4+00E.	.	.	.	.	.	.	.	.	.	.	11	.	20	15	.	.
4+50E.	.	.	.	.	.	.	.	.	.	.	no sample		.	.	.	.
5+00E.	.	.	.	.	.	.	.	.	.	.	6	.	30	15	.	.
5+50E.	.	.	.	.	.	.	.	.	.	.	9	.	15	3	.	.
6+00E.	.	.	.	.	.	.	.	.	.	.	12	.	35	28	.	.
6+50E.	.	.	.	.	.	.	.	.	.	.	18	.	20	12	.	.
7+00E.	.	.	.	.	.	.	.	.	.	.	10	.	20	20	.	.
L12S7+50E.	.	.	.	.	.	.	.	.	.	.	1	.	20	25	.	.

*[Handwritten signature and notes]*



PROJECT No.: Hope Group

MIN - EN Laboratories Ltd.

DATE: July 1

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2  
PHONE (604) 980-5814

1981.

ATTENTION:

Sample Number	6	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80
	ppm	ppm	Pb ppm	Zn ppm	Ni ppm	Co ppm	Ag ppm	Fe ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Sb ppm			
81	86	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160
L4S11+00E								.			<1		5	2		
11+50E								.			<1		5	2		
12+00E								.			38		<5	12		
12+50E								.			19		5	40		
13+00E								.			42		5	11		
13+50E								.			24		5	25 (40mesh)		
14+00E								.			4		5	2 (20mesh)		
14+50E								.			14		5	23		
15+00E								.			19		5	3 (40mesh)		
15+50E								.			18		<5	8		
16+00E								.			47		5	9 (20mesh)		
16+50E								.			29		<5	20 (40mesh)		
17+00E								.			27		<5	16		
17+50E								.			19		10	30 (20mesh)		
18+00E								.			24		<5	45		
18+50E								.			20		5	8 (40mesh)		
19+00E								.			2		<5	2		
19+50E								.			28		10	32		
20+00E								.			16		5	30		
20+50E								.			12		5	40		
21+00E								.			19		<5	30		
21+50E								.			10		5	5		
22+50E								.			18		5	18		
23+00E								.			29		<5	10		
23+50E								.			14		5	32		
24+00E								.			18		<5	15		
L4S24+50E								.			52		5	5 (20mesh)		
L34.5S0+00E								.			48		5	13		
0+50E								.			18		5	15		
L34.5S1+00E								.			10		<5	12		

APPENDIX III

Certificate of Assay

## CERTIFICATE OF ASSAY

TO Aquaria Resources Ltd.  
920 - 475 Howe Street  
Vancouver, B. C. V6C 2T6

**A21 - 867**

**July 21, 1981**

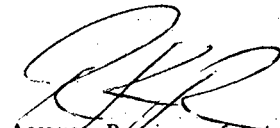
**PROJECT: JESSI GP**

I hereby certify that the following are the results of assays made by us upon the herein described **rock** samples.

MARKED	Percent Au oz/ton	MARKED	Percent Au oz/ton	MARKED	Percent Au oz/ton
JQ - 1	<0.002	Sale Spring Creek Jessi 2			
2	<0.002				
3	<0.002				
4	<0.002				
5	<0.002				
6	0.002				
7	0.003				
8	<0.002				
9	<0.002				
10	<0.002				
11	<0.002				
12	<0.002				
13	<0.002				
14	<0.002				
15	0.002				
16	<0.002				
17	<0.002				

cc Hope, B. C.

NOTE:  
 Rejects retained two weeks  
 Pulps retained three months  
 unless otherwise arranged.

  
 Registered Assayer, Province of British Columbia

920 - 475 Howe Street  
 Vancouver, B. C. V6C 2T6

CERTIFICATE OF ASSAY

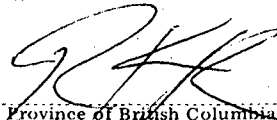
Samples submitted: August 28, 1961  
 Results completed: September 10, 1961  
 PROJECT: JESSI GP

I hereby certify that the following are the results of assays made by us upon the herein described rock samples.

MARKED	GOLD		SILVER		As							
	Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
JS - 2 180	<0.002				<0.01							
	<0.002				<0.01							
cc Aquarius - Hope, B. C.												

} Grab Sample  
 Jess 1

NOTE:  
 Rejects retained three weeks  
 Pulps retained three months  
 unless otherwise arranged.

  
 Registered Assayer, Province of British Columbia

## CERTIFICATE OF ASSAY


TO Aquarius Resources  
920 - 475 Howe Street  
Vancouver, B. C.

**A21 - 1031**  
**August 12, 1981**  
**PROJECT: JESSIE**

I hereby certify that the following are the results of assays made by us upon the herein described **rock** samples.

MARKED	<u>REJECT</u> Au oz/ton	MARKED	Percent	MARKED	Percent
DC - 1 2 3 4	<0.002 <0.002 <0.002 <0.002	} Bulk rock Dewdney Creek - Jessie 1			
cc Aquarius - Hope					

NOTE:  
 Rejects retained two weeks  
 Pulps retained three months  
 unless otherwise arranged.

  
 Registered Assayer, Province of British Columbia

APPENDIX IV

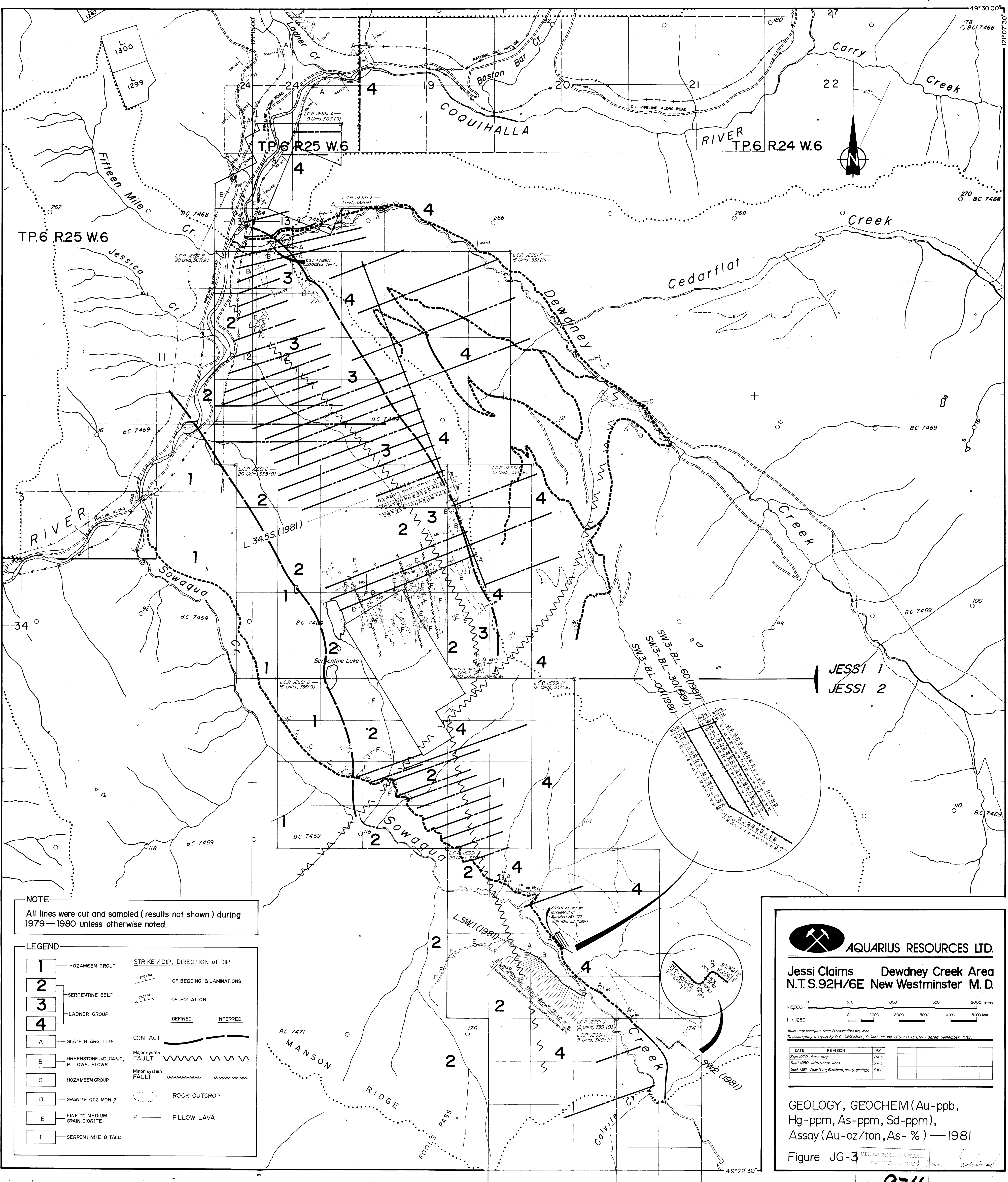
Certificate

I, Daniel G. Cardinal of the Municipality of Hope, British Columbia, do hereby certify that:

1. I am a professional geologist residing in Hope, B. C., mailing address, P. O. Box 594, Hope, British Columbia, VOX 1L0
2. I am a graduate of the University of Alberta (1975) with a B.Sc. degree in Economic Geology and a graduate of the Northern Alberta Institute of Technology with a Geological Technologist diploma (1970)
3. I am a member in good standing with the Association of Professional Engineers, Geologists and Geophysicists of Alberta; and a member of the Canadian Institute of Mining and Metallurgy.
4. Since 1968, I have been actively involved in the Canadian mining industry both as a prospector and a professional geologist, and have assisted and instructed prospector's courses through the Department of Extension, University of Alberta.
5. I am presently employed by Aquarius Resources Ltd., as a permanent staff geologist to systematically carry out geological mapping, prospecting, geochemical, geophysical and diamond drilling programs.



Daniel G. Cardinal, P. Geol.  
September, 1981.



**NOTE**  
 All lines were cut and sampled (results not shown) during 1979—1980 unless otherwise noted.

**LEGEND**

<b>1</b>	HOZAMEEN GROUP	STRIKE / DIP, DIRECTION of DIP
<b>2</b>	SERPENTINE BELT	OF BEDDING & LAMINATIONS
<b>3</b>	LADNER GROUP	OF FOLIATION
<b>4</b>		DEFINED      INFERRED
<b>A</b>	SLATE & ARGILLITE	CONTACT
<b>B</b>	GREENSTONE, VOLCANIC, PILLOWS, FLOWS	Major system FAULT
<b>C</b>	HOZAMEEN GROUP	Minor system FAULT
<b>D</b>	GRANITE QTZ. MON ?	ROCK OUTCROP
<b>E</b>	FINE TO MEDIUM GRAIN DIORITE	P — PILLOW LAVA
<b>F</b>	SERPENTINITE & TALC	

**AQUARIUS RESOURCES LTD.**

**Jessi Claims      Dewdney Creek Area**  
**N.T.S. 92H/6E New Westminister M. D.**

1:15,000      0      500      1000      1500      2000metres  
 1" = 1250'      0      1000      2000      3000      4000      5000feet

Base map enlarged from 20' scale forestry map  
 To accompany a report by D.G. CARONAL, P. Geol., on the JESSI PROPERTY dated September, 1981.

DATE	REVISION	BY
Sept 1979	Base map	P.K.C.
Sept 1980	Additional lines	B.A.C.
Sept 1981	New lines, Geochem, assay, geology	P.K.C.

**GEOLOGY, GEOCHEM (Au-ppb, Hg-ppm, As-ppm, Sd-ppm), Assay (Au-oz/ton, As-%) — 1981**

Figure JG-3

MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT

**9766**  
 NO.