

84-1119-13046  
9/35

ASSESSMENT REPORT ON A  
SOIL GEOCHEMICAL SAMPLING SURVEY  
AND  
ORTHOPHOTO SURVEY  
ON THE  
JESSI I and JESSI II MINERAL  
CLAIM GROUPS FOR  
COLUMBIAN NORTHLAND EXPLORATION LTD.  
AQUARIUS RESOURCES LTD., RUPERTSLAND RESOURCES LTD.,  
FLAMINGO OILS LTD. and OCELOT INDUSTRIES LTD.  
NEW WESTMINSTER MINING DIVISION  
BRITISH COLUMBIA  
NTS 92H/6 (EAST)  
LATITUDE 49°28'North LONGITUDE 121°14'West

Vancouver, B.C.

Diane Howe, Project Geologist

October 30, 1984

OreQuest Consultants Ltd.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,046**

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## 1.0 INTRODUCTION

This report is a summary report on the geochemical and orthophoto survey conducted in 1984 on the Jessi I and Jessi II mineral claim groups to fulfill assessment requirements.

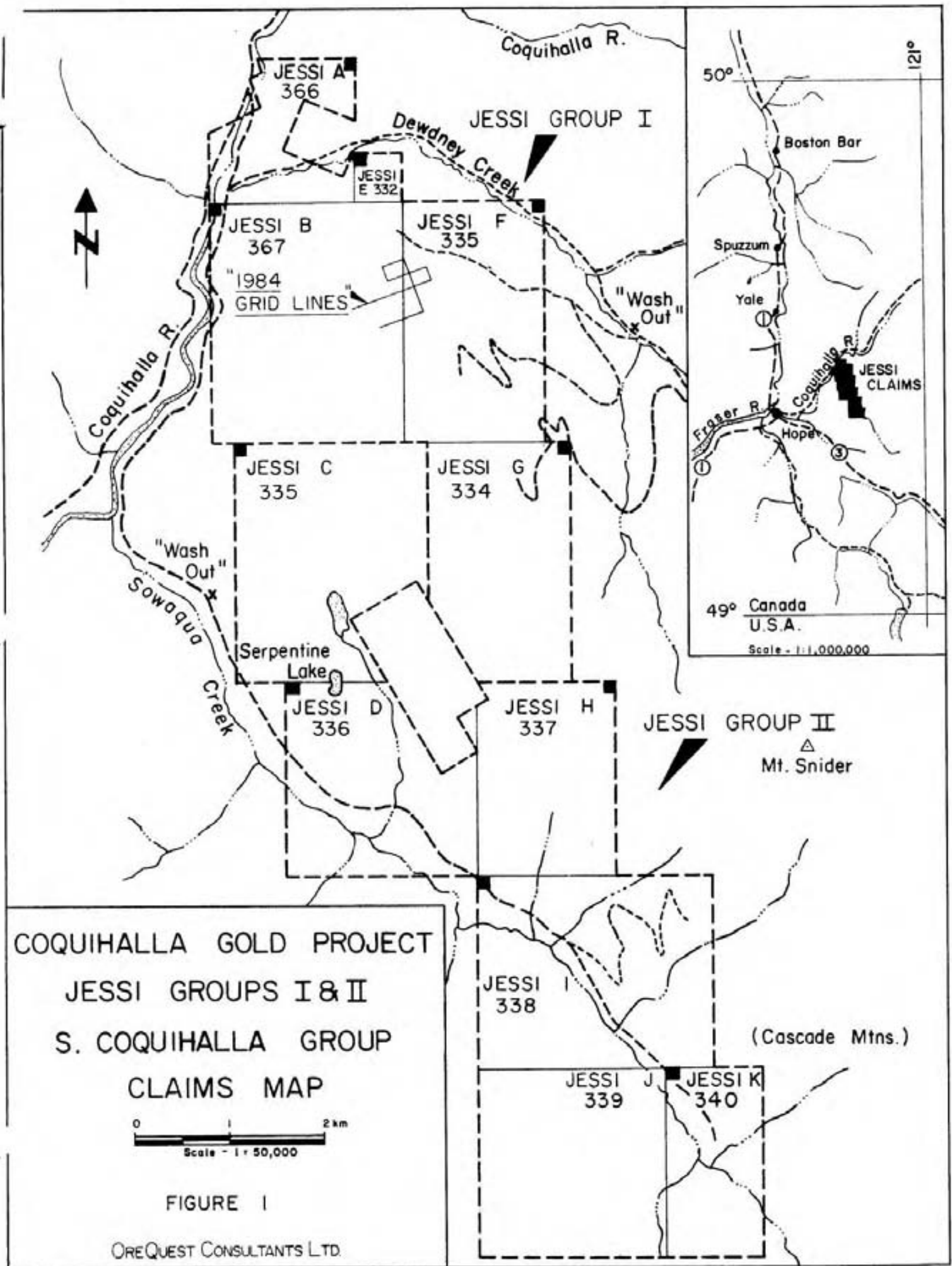
The Jessi I and Jessi II mineral claim groups consist of 148 units located approximately 24 kilometers (15 miles) northeast of Hope, B.C. and make up the southern portion of the "Coquihalla Gold Belt" exploration project of Columbian Northland Explorations Ltd., Aquarius Resources Ltd., Ocelot Petroleum Ltd., Ruperstland Resources Ltd. and Flamingo Oils Ltd.

### 1.1 LOCATION and ACCESS

The Jessi I mineral claim group is located some 24 kilometers (15 miles) northeast of the town of Hope. The claim group is situated along a prominent ridge between Sowaqua and Dewdney creeks, and is centred at 49°28'North Latitude and 121°14'West Longitude on NTS map sheet 92H/6E.

Easy access is provided to the claims via the Coquihalla road which roughly parallels the Coquihalla River from Hope through the northern tip of the claim group. The Coquihalla road is presently under construction to provide a new four-lane highway from Hope to Merritt due to open in 1986.

The eastern portion of the Jessi I group may also be reached via a 4 x 4 forestry service road which parallels Dewdney Creek for approximately 4.5 kilometers before being washed out.



The majority of the claims area is accessible only by foot from the above mentioned roads and usually involves a steep climb through dense woods.

A charter helicopter was used for more efficient access this summer.

Access to the Jessi II mineral claim group is via a 4 x 4 logging road along Sowaqua Creek which at present is severely restricted due to wash outs. Again, a more efficient access would be by helicopter.

#### 1.2 CLAIM INFORMATION

The Jessi I and Jessi II mineral claim groups consist of 11 claim blocks of 148 units which encompass an area of 3,700 hectares (9,142.7 acres) and are located in the New Westminster Mining Division. The claim groups are owned jointly by Columbia Northland Explorations Ltd., Aquarius Resources Ltd., Rupertsland Resources Ltd., Flamingo Oils Ltd. and Ocelot Industries Ltd.

Pertinent claim information is as follows:

(Regrouped 1984)

Group	Claim	# Units	Rec. #	Anniversary Date	Year*
JESSI I	Jessi A	9	366	October 16	85
	Jessi B	20	367	October 16	85
	Jessi E	1	332	September 20	85
	Jessi F	15	333	September 20	85
	Jessi G	15	334	September 20	85
JESSI II	Jessi C	20	335	September 20	85
	Jessi D	16	336	September 20	85
	Jessi H	12	337	September 20	85
	Jessi I	20	338	September 20	85
	Jessi J	12	339	September 20	85
	Jessi K	8	340	September 20	85
		148			

\*Pending approval of assessment credit.

### 1.3 PHYSIOGRAPHY

The Jessi claim groups are located in the Hozameen Range of the Northern Cascade Mountains. Steep ridges and heavily vegetated valley floors typify this area being that annual precipitation is heavy and temperatures relatively mild.

Main economic activities in the area consist of logging, mining exploration and development, and tourism.

### 1.4 HISTORY

"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 Mine. All of these auriferous findings

have been spatially related to the Hozameen fault". (D.G. Cardinal 1981).

The Jessi I and Jessi II mineral claim groups were staked in 1978 by Aquarius Resources Ltd. to cover the geologically favourable East Hozameen fault in the southern half of the Coquihalla gold belt.

Research of records and assessment files indicate that in previous years portions of this belt were staked by other companies, but subsequently were allowed to lapse. At present Border Resources Ltd. holds a small claim group immediately adjacent to Serpentine Lake.

Most, if not all, of the work done on the claims by Cochrane Consultants and Aquarius Resources Ltd. between 1979 and 1981 consisted of a reconnaissance and follow up geological and soil sampling programs.

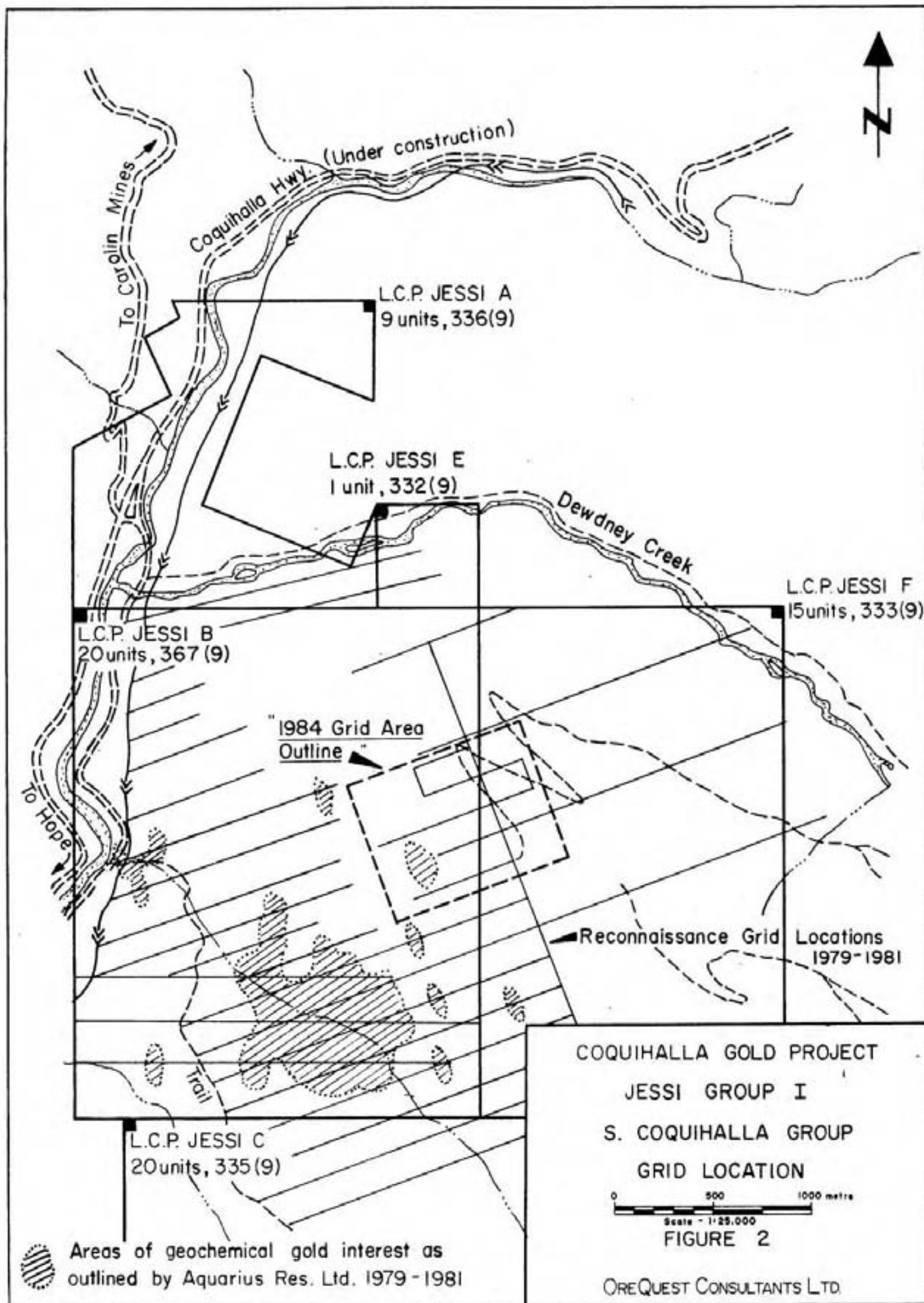
## 2.0 1984 ASSESSMENT WORK PROGRAMS

Field work conducted in 1984 was done to supplement the orthophoto survey contracted to McElhanny surveying to fulfill assessment requirements for the Jessi claim group.

### 2.1 SOIL SURVEY

An "interesting" area of soil geochemistry outlined by Cochrane in 1981 was geochemically tested by collecting samples along a grid designed around this area.

Soil samples were collected from the B horizon where possible at 50 metre





stations on lines 150 metres apart. A total of 53 soil samples were collected and sent to Chemex Labs Ltd. in Vancouver for analysis of gold, silver, copper, lead, zinc, arsenic, tungsten and mercury. Sample preparation and analysis techniques are detailed in Appendix A.

Values for most elements in general are low and considered well below threshold in most cases.

The more impressive values occur on the second line north between stations 3+00 and 4+00W where anomalous values in arsenic and copper have been recorded. This area is consistent with the high values recorded by Cochrane in 1981.

Values in gold range between <5 to 20 ppb. From work done in the past by Cochrane and Aquarius Ltd., values greater than 30 ppb are generally considered anomalous.

## 2.2 ORTHOPHOTO SURVEY

In early August of 1984 it was decided to produce an orthophoto base of the Jessi claim group partly to fulfill assessment requirements, but mainly to provide a good, reliable working base for compilation and future field work.

The orthophoto survey was contracted to McElhenny Surveying of Vancouver. The base maps are at a scale of 1:5000 with 20 metre contours, also a clear contour overlay scribed at 10 metre intervals is included.

For this project, the B.C. Government 1:54,000 aerial photography flown in

1980 and 1982 and a 1:50,000 NTS map sheet were utilized for control purposes. The control was then transferred to 1:20,000 I.R.P. photography flown in 1979 for Aquarius Resources Ltd. The 10 and 20 metre contours were drawn directly from the 1:54,000 B.C. Government aerial photography. The contours were scribed and a clear contour overlay produced. At the same time orthophoto negatives were produced from the IRP 1:20,000 aerial photography. From the orthophoto negatives, positive enlargements were produced and scaled to the aerotriangulated control points. The positive enlargements were formed into a mosaic and the final orthophoto negatives were produced. The orthophoto negatives were registered to the contour overlay, and one cronaflex positive and one photographic print with superimposed contours at the 1:5,000 scale were developed. Also provided were one positive cronar showing the 10 metre contours at the 1:5,000 scale.

#### CONCLUSIONS and RECOMMENDATIONS

Based on the geologically favourable location and encouraging assay values (1979 to 1984 field work), further work is definitely warranted on the Jessi claim groups.

Using the orthophoto for ground control, a complete program of linecutting, soil sampling, detailed geological mapping and geophysics should be conducted over the claim areas, with greater detail in areas outlined by Cochrane (1979 to 1981).

ITEMIZED COST STATEMENT

DATES: September 13, 14, 15, 1984

Jessi I and Jessi II Groups

B. Helgason - 2.5 days @ \$200/day	\$ 500.00
D. Howe - 2.5 days @ \$200/day	500.00
G. Cavey - .5 days @ \$400/day	200.00
Truck Rental - 2.5 days @ \$75/day	<u>187.50</u>
	<b>\$1,387.50</b>

DISBURSEMENTS

Gas	16.50
Accommodation	192.60
Meals	110.77
Geochem Assays	1,311.80
B.C. Telephone	13.65
Helicopter	606.71
Materials and Supplies	<u>100.00</u>
	<b>\$2,352.03</b>
Contingencies @ 15%	<u>352.80</u>
	<b>\$2,704.83</b>
Report, Drafting and Supervision	<u>1,383.31</u>
	<b>\$5,475.64</b>

TOTAL

Cost of Orthophoto	\$13,173.25
Withdraw from P.A.C.	<u>1,642.69</u>
TOTAL SPENT	<b><u>\$20,291.58</u></b>

## QUALIFICATIONS

I, Diane Howe, of 21394-126th Avenue, Maple Ridge, British Columbia hereby certify:

1. I am a graduate of the University of British Columbia (1980) and hold a BSc. degree in geology.
2. I am presently employed as a project geologist with OreQuest Consultants Ltd. of 404-595 Howe Street, Vancouver, British Columbia.
3. I have been employed in my profession by various mining companies for the past five years.
4. I am a member of the Canadian Institute of Mining.
5. The information contained in this report was obtained from data personally collected during the field program in September of 1984 and from the reports and files listed in the Bibliography.
6. Neither OreQuest Consultants Ltd. nor myself have direct or indirect interest in the property described.

*D. Howe*

Diane Howe  
Project Geologist

DATED at Vancouver, British Columbia, this 30th day of October, 1984.

## BIBLIOGRAPHY

CAIRNES, C.E.

Coquihalla Area, British Columbia, G.S.C. Memoir 1939.

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RAY, G.E.

Coquihalla Gold Belt Project, Ministry of Energy, Mines and Petroleum Resources Ltd., papers 1982-1, 1983-1, 1984-1.

APPENDIX A



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 Brooksbank Ave  
North Vancouver, B.C.  
Canada V7J 2C

Telephone: (604) 984 0227  
Telex: 043-5259

## CERTIFICATE OF ANALYSIS

TO : OreQuest Consultants Ltd.

404 - 595 HOWE ST.  
VANCOUVER, B.C.  
V6C 2T5

CERT. # : A8416237-001  
INVOICE # : I8416237  
DATE : 1-OCT-84  
P.O. # : NONE  
CNE4-5

Sample description	Prep code	Hg ppb	Au ppb FA+AA				
RCNE4-01	205	60	<5	--	--	--	--
RCNE4-02	205	30	<5	--	--	--	--
RCNE4-03	205	20	<5	--	--	--	--
RCNE4-61	205	20	<5	--	--	--	--



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INVOICE # : I8416237  
DATE : 1-OCT-84  
P.O. # : NONE  
CNE4-5

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Ag ppm	AS ppm	W ppm
RCNE4-01	205	10	1	36	0.3	36	1
RCNE4-02	205	183	1	36	0.2	7	1
RCNE4-03	205	32	1	49	0.2	25	1
RCNE4-61	205	106	1	50	0.2	12	1



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INVOICE # : 18416236  
DATE : 1-OCT-84  
P.O. # : NONE  
CNE4-5

Sample description	Prep code	Hg ppb	Au ppb FA+AA				
DCNE4-66	201	80	<5	--	--	--	--
DCNE4-67	201	140	<5	--	--	--	--
DCNE4-68	201	130	<5	--	--	--	--
DCNE4-69	201	150	<5	--	--	--	--
DCNE4-70	201	40	10	--	--	--	--
DCNE4-71	201	110	10	--	--	--	--
DCNE4-73	201	180	<5	--	--	--	--
DCNE4-74	201	120	20	--	--	--	--
DCNE4-75	201	120	15	--	--	--	--
DCNE4-76	201	40	<5	--	--	--	--
DCNE4-77	201	150	<5	--	--	--	--
DCNE4-78	201	100	<5	--	--	--	--
DCNE4-72	0	130	5	--	--	--	--



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CNE4-5

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Ag ppm	AS ppm	W ppm
DCNE4-66	201	34	9	105	0.6	81	1
DCNE4-67	201	63	9	162	0.7	59	1
DCNE4-68	201	21	6	38	1.1	22	1
DCNE4-69	201	46	10	122	0.7	61	1
DCNE4-70	201	15	4	30	0.7	23	1
DCNE4-71	201	40	9	123	1.0	57	1
DCNE4-73	201	33	7	312	0.9	36	1
DCNE4-74	201	74	12	245	0.8	100	1
DCNE4-75	201	48	10	195	1.1	190	1
DCNE4-76	201	18	7	50	0.9	67	2
DCNE4-77	201	23	8	55	1.4	46	1
DCNE4-78	201	26	8	54	1.1	41	1
DCNE4-72	0	38	10	128	1.0	32	1

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DATE : 1-CCT-84  
P.O. # : NONE  
CNE4-5

Sample description	Prep code	Hg ppb	Au ppb FA+AA				
DCNE4-01	201	120	5	--	--	--	--
DCNE4-02	201	150	<5	--	--	--	--
DCNE4-03	201	100	<5	--	--	--	--
DCNE4-04	201	100	5	--	--	--	--
DCNE4-05	201	60	<5	--	--	--	--
DCNE4-06	201	60	5	--	--	--	--
DCNE4-07	201	40	<5	--	--	--	--
DCNE4-08	201	40	<5	--	--	--	--
DCNE4-09	201	40	<5	--	--	--	--
DCNE4-10	201	50	5	--	--	--	--
DCNE4-11	201	60	<5	--	--	--	--
DCNE4-12	201	50	5	--	--	--	--
DCNE4-13	201	70	<5	--	--	--	--
DCNE4-14	201	100	<5	--	--	--	--
DCNE4-15	201	90	10	--	--	--	--
DCNE4-16	201	50	10	--	--	--	--
DCNE4-17	201	30	<5	--	--	--	--
DCNE4-18	201	60	<5	--	--	--	--
DCNE4-19	201	80	5	--	--	--	--
DCNE4-20	201	70	<5	--	--	--	--
DCNE4-21	201	80	5	--	--	--	--
DCNE4-22	201	130	<5	--	--	--	--
DCNE4-23	201	110	<5	--	--	--	--
DCNE4-24	201	170	<5	--	--	--	--
DCNE4-25	201	140	<5	--	--	--	--
DCNE4-26	201	80	<5	--	--	--	--
DCNE4-51	201	120	<5	--	--	--	--
DCNE4-52	201	140	<5	--	--	--	--
DCNE4-53	201	30	<5	--	--	--	--
DCNE4-54	201	50	<5	--	--	--	--
DCNE4-55	201	40	<5	--	--	--	--
DCNE4-56	201	20	<5	--	--	--	--
DCNE4-57	201	90	10	--	--	--	--
DCNE4-58	201	60	<5	--	--	--	--
DCNE4-59	201	30	<5	--	--	--	--
DCNE4-60	201	40	20	--	--	--	--
DCNE4-62	201	40	<5	--	--	--	--
DCNE4-63	201	40	<5	--	--	--	--
DCNE4-64	201	100	<5	--	--	--	--
DCNE4-65	201	50	5	--	--	--	--

*Hart Bichler*

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DATE : 1-OCT-84  
P.O. # : NONE  
CNE4-5

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Ag ppm	AS ppm	W ppm
DCNE4-01	201	30	10	65	0.9	39	1
DCNE4-02	201	59	5	112	0.7	25	1
DCNE4-03	201	62	12	170	0.9	41	1
DCNE4-04	201	22	12	82	0.7	35	1
DCNE4-05	201	29	8	115	0.7	29	1
DCNE4-06	201	71	7	150	0.5	46	1
DCNE4-07	201	43	6	54	0.4	9	1
DCNE4-08	201	53	4	60	0.3	12	1
DCNE4-09	201	48	4	95	0.3	17	2
DCNE4-10	201	60	7	68	0.3	19	1
DCNE4-11	201	44	8	90	0.3	15	1
DCNE4-12	201	78	6	98	0.4	39	1
DCNE4-13	201	75	5	140	0.6	81	1
DCNE4-14	201	55	11	108	0.3	73	1
DCNE4-15	201	86	10	113	0.4	340	1
DCNE4-16	201	120	9	120	0.3	200	1
DCNE4-17	201	32	2	36	0.4	22	1
DCNE4-18	201	470	5	70	0.5	63	1
DCNE4-19	201	55	15	98	0.8	63	1
DCNE4-20	201	55	5	78	0.6	19	1
DCNE4-21	201	42	9	107	0.7	45	1
DCNE4-22	201	70	10	155	0.8	97	1
DCNE4-23	201	44	4	102	1.0	30	1
DCNE4-24	201	55	7	98	0.9	22	1
DCNE4-25	201	42	8	142	1.2	41	1
DCNE4-26	201	25	10	45	0.7	32	1
DCNE4-51	201	25	9	85	0.9	43	1
DCNE4-52	201	21	7	48	0.8	24	1
DCNE4-53	201	12	2	36	0.3	15	1
DCNE4-54	201	17	8	58	0.5	63	1
DCNE4-55	201	14	11	38	0.3	16	1
DCNE4-56	201	13	3	20	0.2	7	1
DCNE4-57	201	38	11	95	0.7	130	1
DCNE4-58	201	44	14	123	0.4	110	1
DCNE4-59	201	19	9	30	0.3	15	1
DCNE4-60	201	34	8	87	0.4	51	1
DCNE4-62	201	30	10	76	0.5	53	1
DCNE4-63	201	21	11	48	0.4	53	1
DCNE4-64	201	33	10	118	0.6	65	1
DCNE4-65	201	21	7	42	0.4	33	1

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GEOCHEMICAL PREPARATION  
AND  
ANALYTICAL PROCEDURES

1. Geochemical samples (soils, silts) are dried at 80°C for a period of 12 to 24 hours. The dried sample is sieved to -80 mesh fraction through a nylon and stainless steel sieve. Rock geochemical materials are crushed, dried and pulverized to -100 mesh.
2. A 1.00 gram portion of the sample is weighed into a calibrated test tube. The sample is digested using hot 70% HClO<sub>4</sub> and concentrated HNO<sub>3</sub>. Digestion time = 2 hours.
3. Sample volume is adjusted to 25 mls. using demineralized water. Sample solutions are homogenized and allowed to settle before being analyzed by atomic absorption procedures.
4. Detection limits using Techtron A.A.5 atomic absorption unit:

Copper	- 1 ppm
Zinc	- 1 ppm
*Silver	- 0.2 ppm
*Lead	- 2 ppm
5. \*Ag & Pb are corrected for background absorption.
6. Elements present in concentrations below the detection limits are reported as one half the detection limit, ie Ag - 0.1 ppm.

F.A. - A.A. GOLD COMBO METHOD

For low grade samples and geochemical materials, 10 gram samples are fused in litharge, carbonate and siliceous flux with the addition of 10 mg of Au-free Ag metal and cupelled. The silver bead is parted with dilute HNO<sub>3</sub> and then treated with aqua regia. The salts are dissolved in dilute HCl and analyzed for Au on an atomic absorption spectrophotometer to a detection of 5 ppb.

### ASSAY PREPARATION

- 1.) Samples are sorted, then listed on assay sheets.
- 2.) The entire sample is crushed first in a primary jaw crusher, then in a secondary cone crusher.
- 3.) The crushed sample is reduced to a 200-400 gram sub-sample in a Jones Riffler, then dried.
- 4.) The dried material is pulverized to pass a 100 mesh screen, then rolled to homogenize.

### ASSAY ANALYTICAL METHODS

- 1.) Cu, Mo, Ni (%)  
A 2 gram sub-sample is digested in a hot perchloric-nitric acid mixture for two hours, cooled, then transferred into a 250 ml. volumetric flask. Aluminum Chloride is added as an ionization suppressant for Mo. The solutions are then analyzed on an atomic absorption instrument.
- 2.) Pb, Zn (%)  
These elements are analyzed as above with the addition of nitric acid to the final sample and standard solutions.
- 3.)  $WO_3$   
Tungstons are analyzed by a colourimetric thiocyanate procedure after dissolution with a phosphoric-hydrofluoric-hydrochloric acid mixture.
- 4.) Ag, Au (oz/ton)  
Silver and gold analyses are done by standard fire assay techniques. In the sample preparation stage the screens are checked for metallics which, if present, are assayed separately and calculated into the results obtained from the pulp assay.

CCMP standards provided by the Department of Energy, Mines and Resources are analyzed along with each group of forty samples for quality control. Fire assay standards are used less frequently because of the large quantity of pulp required for the analysis.

PPM Antimony:

A 2.0 gm sample digested with conc. HCl in hot water bath. The iron is reduced to Fe <sup>+2</sup> state and the Sb complexed with I <sup>-</sup>. The complex is extracted with TOPO-MIBK and analyzed via A.A. Correcting for background absorption 0.2 ppm ± 0.2

Detection limit: 0.2 ppm

PPM Arsenic:

A 1.0 gram sample is digested with a mixture of perchloric and nitric acid to strong fumes of perchloric acid. The digested solution is diluted to volume and mixed. An aliquot of the digest is acidified, reduced with KI and mixed. A portion of the reduced solution is converted to arsine with NaBH<sub>4</sub> and the arsenic content determined using flameless atomic absorption.

Detection limit: 1 ppm

PPB Gold:

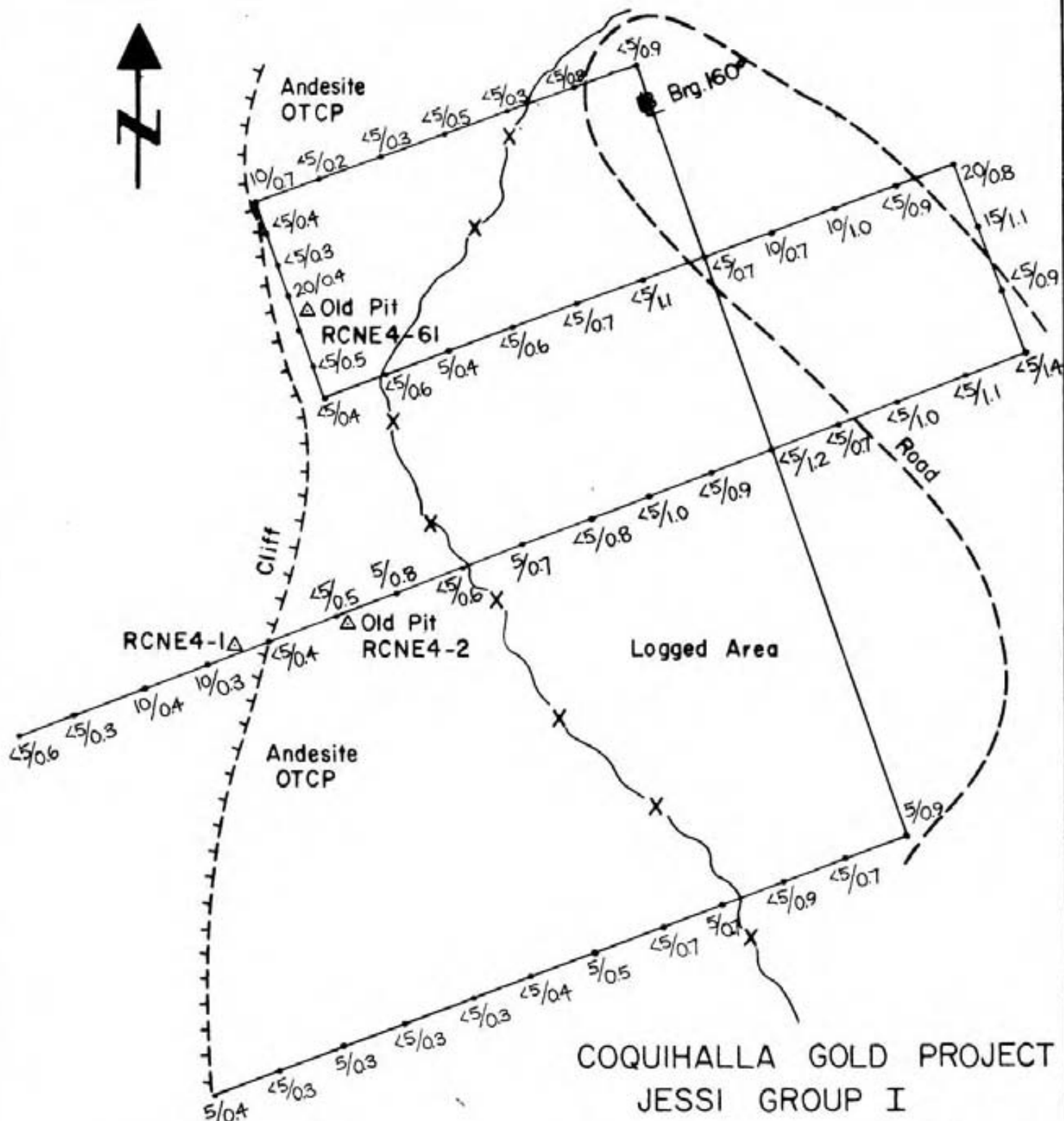
5 gm samples ashed @ 800°C for one hour, digested with aqua regia - twice to dryness - taken up in 25% HCl <sup>-</sup>, the gold then extracted as the bromide complex into MIBK and analyzed via A.A.

Detection limit: 10 ppb

PPM Uranium

1.0 gms sample is digested with HClO<sub>4</sub> - HNO<sub>3</sub> acid for approximately 2 hours. An aliquot extracted with MIBK after the addition of Al(NO<sub>3</sub>)<sub>3</sub> - TPAN solution and analyzed via conventional fluorometric procedure.

Detection limit: 0.5 ppm

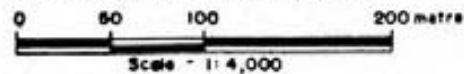


**LEGEND**

- All Samples Proceeded By SCNE4
- Soil Sample Location
- △ Rock Sample
- X— Logged Boundary

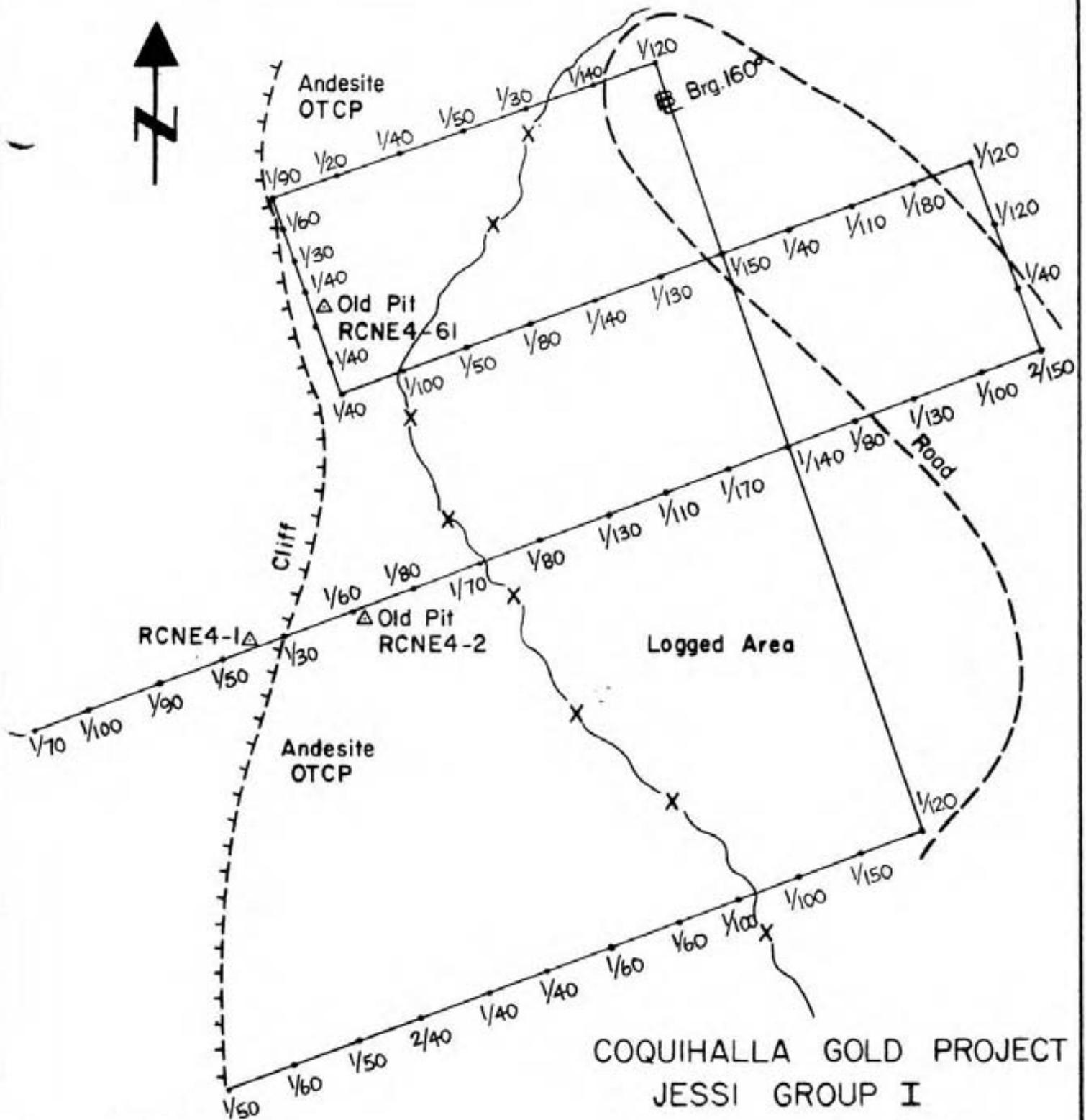
**COQUIHALLA GOLD PROJECT  
JESSI GROUP I  
S. COQUIHALLA GROUP  
SOIL GEOCHEMISTRY**

**Au (ppb) / Ag (ppm)**



**FIGURE 3**





**LEGEND**

- All Samples Proceeded By SCNE4
- Soil Sample Location
- △ Rock Sample
- X— Logged Boundary

COQUIHALLA GOLD PROJECT  
JESSI GROUP I  
S. COQUIHALLA GROUP  
SOIL GEOCHEMISTRY,  
W (ppm) / Hg (ppb)

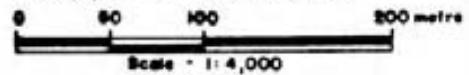
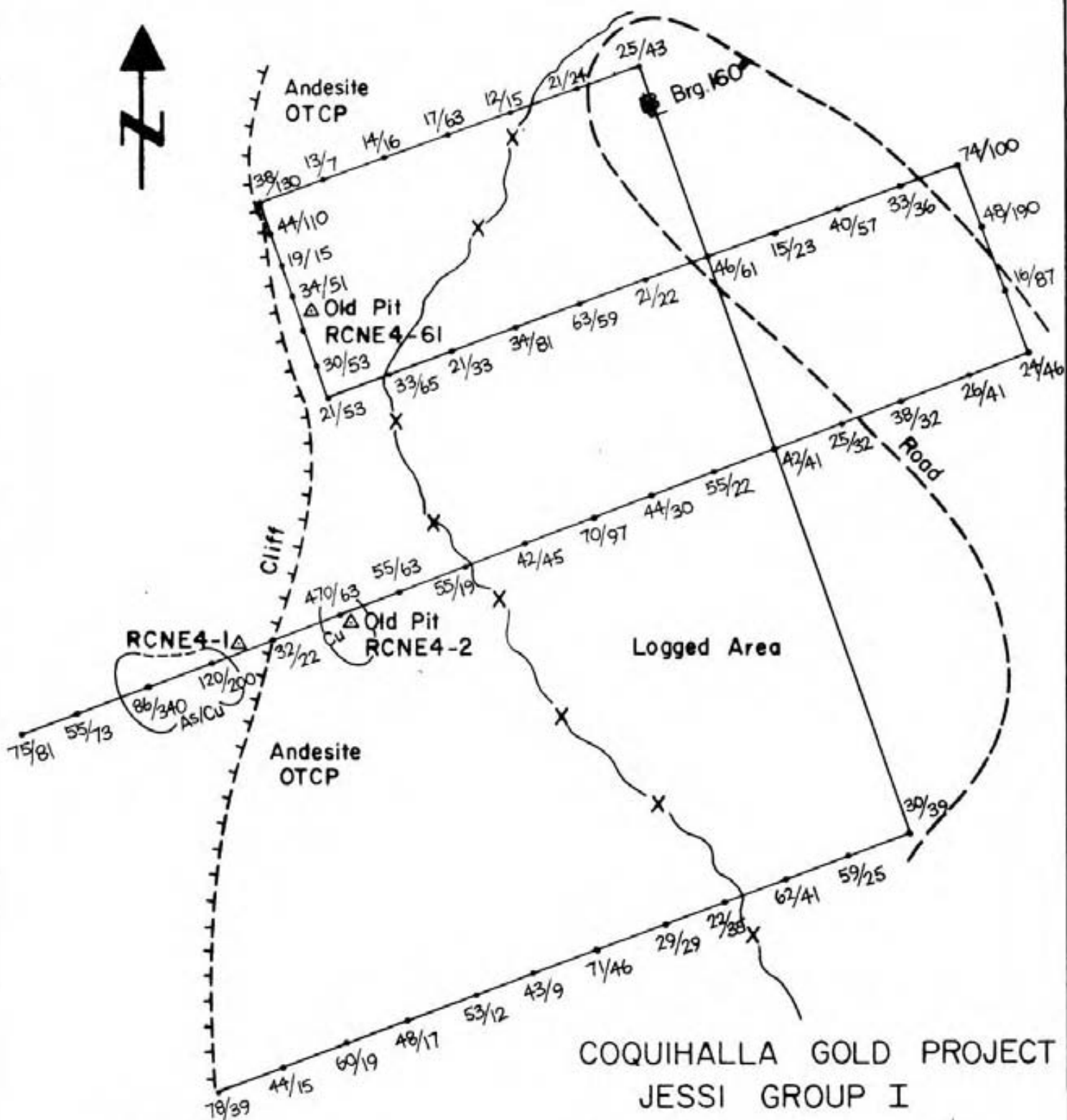


FIGURE 4

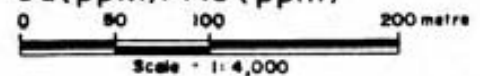


**LEGEND**

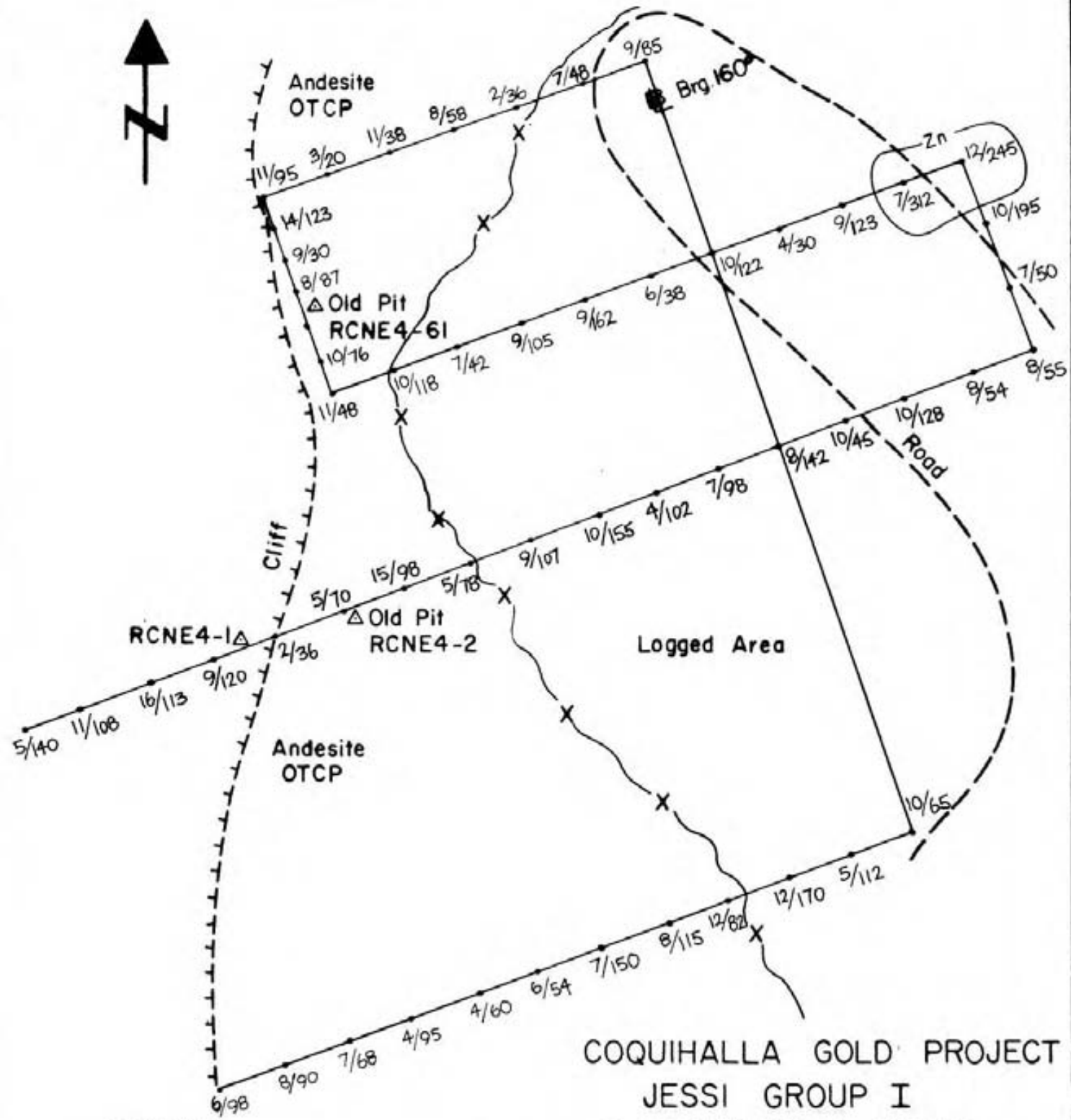
- All Samples Proceeded By SCNE4
- Soil Sample Location
- △ Rock Sample
- X- Logged Boundary
- Anomalous

**COQUIHALLA GOLD PROJECT  
JESSI GROUP I  
S. COQUIHALLA GROUP  
SOIL GEOCHEMISTRY**

Cu(ppm)/As (ppm)



**FIGURE 5**



**LEGEND**

- All Samples Proceeded By SCNE4
- Soil Sample Location
- △ Rock Sample
- X— Logged Boundary
- Anomalous

COQUIHALLA GOLD PROJECT  
JESSI GROUP I  
S. COQUIHALLA GROUP  
SOIL GEOCHEMISTRY  
Pb(ppm) / Zn(ppm)

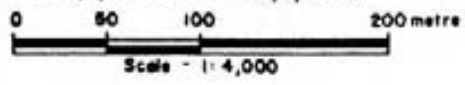
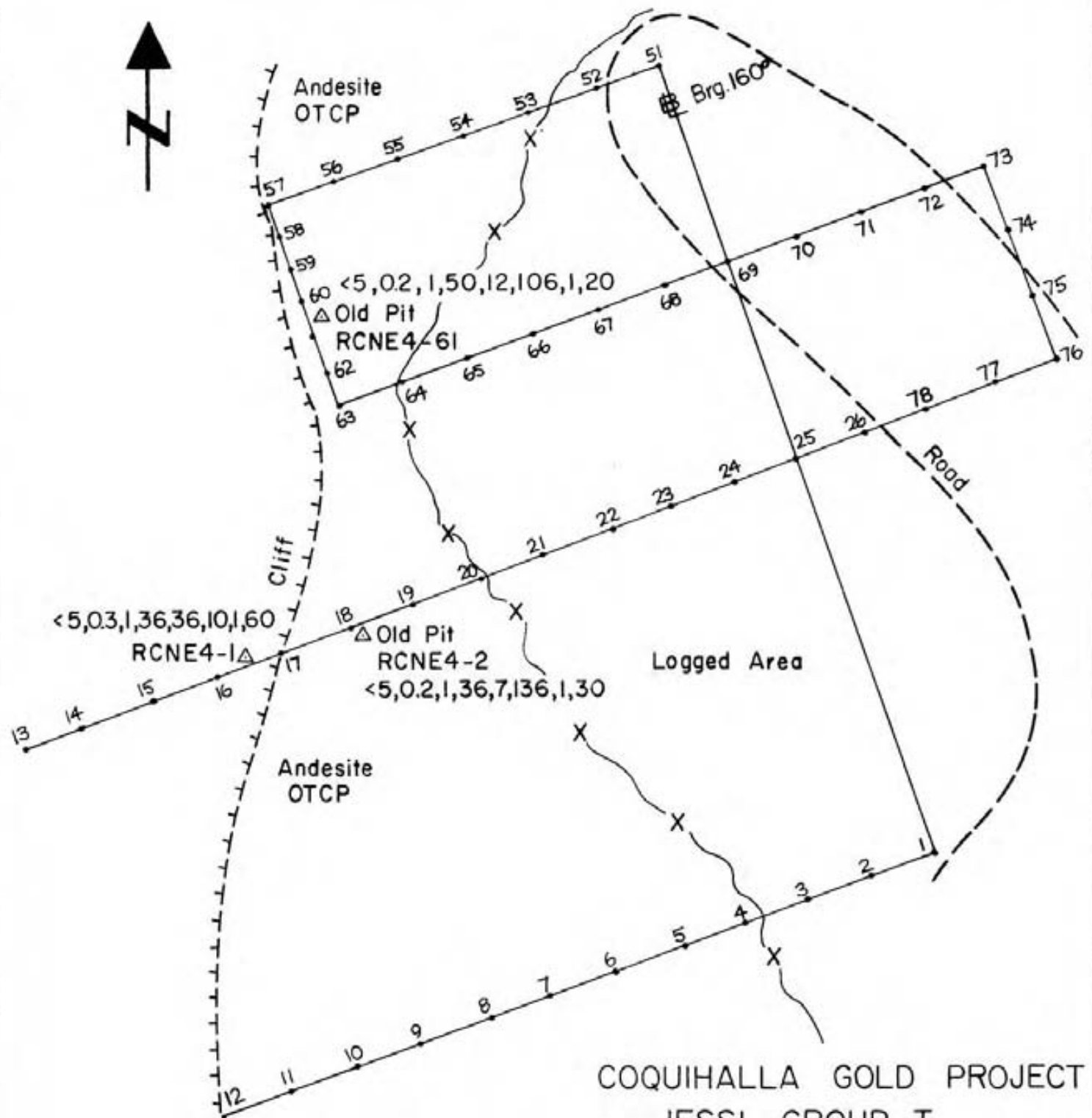


FIGURE 6



**LEGEND**

- Soil Sample Location
- △ Rock Sample & Assays  
Au(ppb), Ag, Pb, Zn, As, Cu, W(ppm), Hg(ppb)
- X- Logged Boundary

COQUIHALLA GOLD PROJECT  
JESSI GROUP I  
S. COQUIHALLA GROUP  
SAMPLE LOCATION

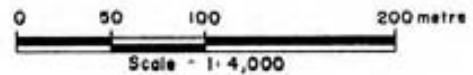


FIGURE 7