

87-552-16225

6/88

GEOCHEMICAL REPORT
on the
ARCHIE #1-#4 MINERAL CLAIMS

Skeena Mining Division

Moresby Island, Queen Charlotte Islands, B.C.

Latitude 52° 18' ^{29"} N Longitude ^{121° 11'} ~~131° 09' 30"~~ E

NTS 103B/6E

Dates of work: May 20, 1987 to June 12, 1987

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,225

FILMED

Prepared for:

Operator(s): J.S. Christie, 3921 West 31st Ave., Vancouver, B.C. V6S 1Y4
Owner(s): K.W. Livingstone, 6775 West Blvd., Vancouver, B.C. V6P 4N1
G.G. Richards, 5700 Forsythe Cresc., Richmond, B.C. V7C 2C3

by

GORDON G. RICHARDS

5700 Forsythe Crescent

Richmond, B.C. V7C 2C3

Tel.: (604) 270-6862

Owner: Gordon G. Richards

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Date of Report: June 12, 1987

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INTRODUCTION

Stream sediments collected in April 1979 returned highly anomalous values for gold and arsenic and caused the immediate staking of the ARCHIE #1-#4 mineral claims in May 1979.

Preliminary soil sample lines spaced 250 m apart with sample intervals of 50 m were run in August 1979. Pronounced gold-arsenic soil anomalies were found to exist primarily over calcareous argillites intruded by acid to intermediate dykes. Results of this survey are described in an assessment report on the ARCHIE #1-#4 claims recorded December 31, 1979.

A more detailed survey was designed to map and sample three specific areas and complete the reconnaissance sampling at the east and west ends of the property. This was completed in 1980 and the results described in an assessment report filed in August 1980. A third report involved more of this style of work done to the east of the previous detailed surveys.

All of this previous work indicated Karmutsen greenstones to be overlain by Kunga massive grey limestone, black limestone, calcareous argillites and argillites in ascending order. Felsic, weakly porphyritic sills and later andesitic to microdioritic sills occur near the top of the hill. Felsic to mafic dykes are also common throughout the claims area. Gold-arsenic geochemical anomalies appear to be either caused by or controlled by the sills, particularly a main felsic sill.

Previous mining activity in the area includes the LILY mine (Figure 4) which was mined via four portals during the years 1906-1909 and 1915-

1920. Fourteen thousand tons are reported to have been mined producing 1,646 ounces gold, 27,732 ounces silver and 1,265,581 pounds of copper (Bulletin 54 BCDM, page 204). Other mining activity is more recent having taken place in the 1960s by The Granby Mining Company Limited who mined iron skarn mineralization from two open pits as shown on Figure 4. Production to 1965 was 2,412,901 tons of ore yielding 1,217,204 tons of concentrate with a 62 percent iron content. Reserves at that time were 938,600 tons grading 35 percent magnetic iron and an additional 962,800 tons of the same grade existing underground but judged to be uneconomic (Bulletin 54 BCDM, page 199). A third mine with limited production is the LUCKY SEVEN, also called the Doxath Kalon and Producer Groups which lies within the ARCHIE claim block and is described in more detail below. It is a gold-silver-copper vein with production of 60 ounces gold, 218 ounces silver and 8,336 pounds copper from 42 tons of ore shipped.

The present study was made to determine if the property has any potential for platinum group metal mineralization. Pulps from previous studies have been stored since they were collected. Many of these pulps were destroyed in a fire in February 1985, but enough were available to select samples from several different geological environments. A total of 120 samples were analyzed for Au, Pt, Pd, Co and Ni, of which 32 were rock chips, one a silt sample and 87 soil samples.

LOCATION AND ACCESS

The property lies towards the southern end of Moresby Island on the south side of Skincuttle Inlet and is bounded to the west by Harriet Harbour and to the east by Ikeda Grove. It is accessible by float plane

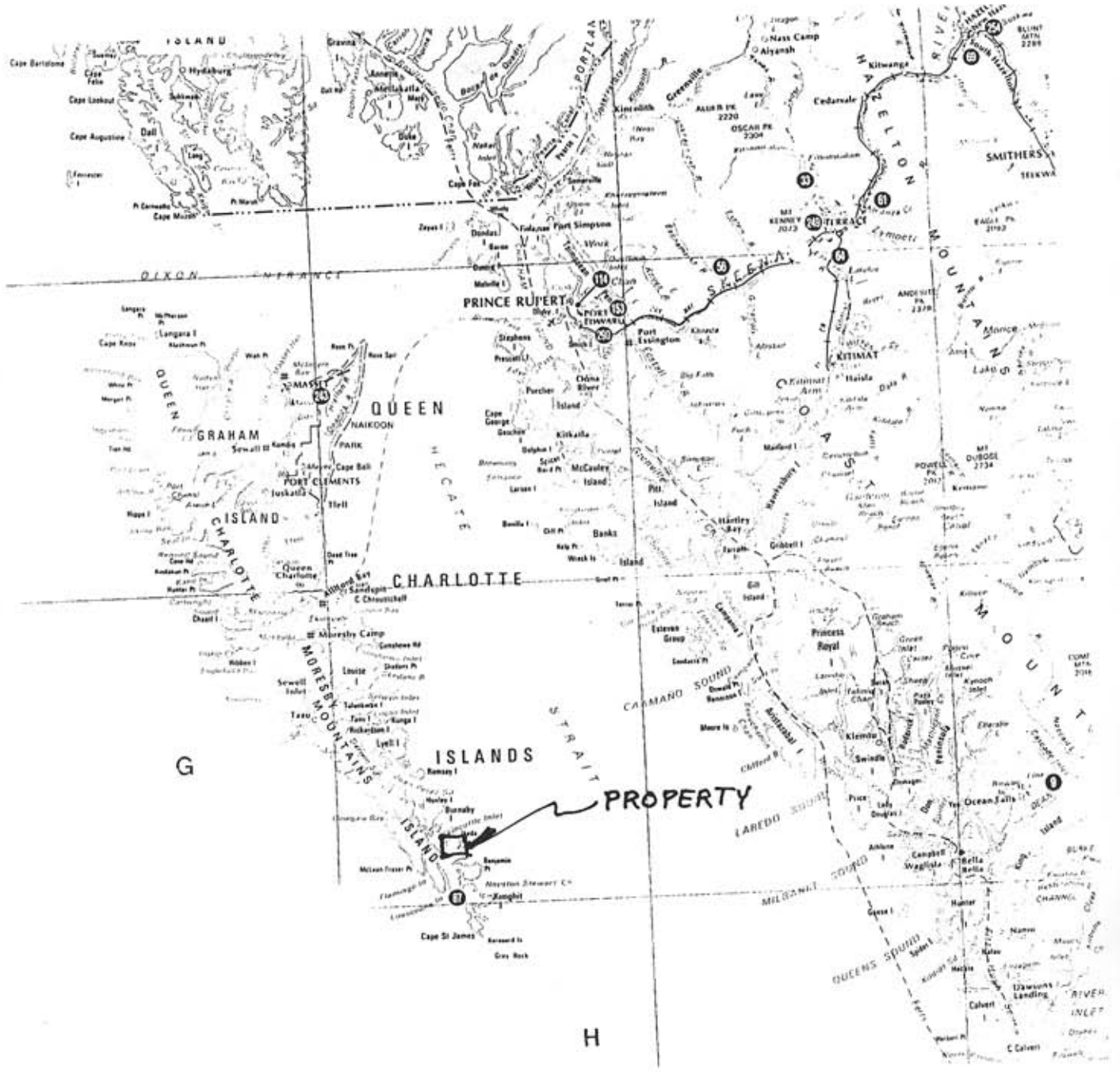


Fig. 1: PROPERTY LOCATION MAP

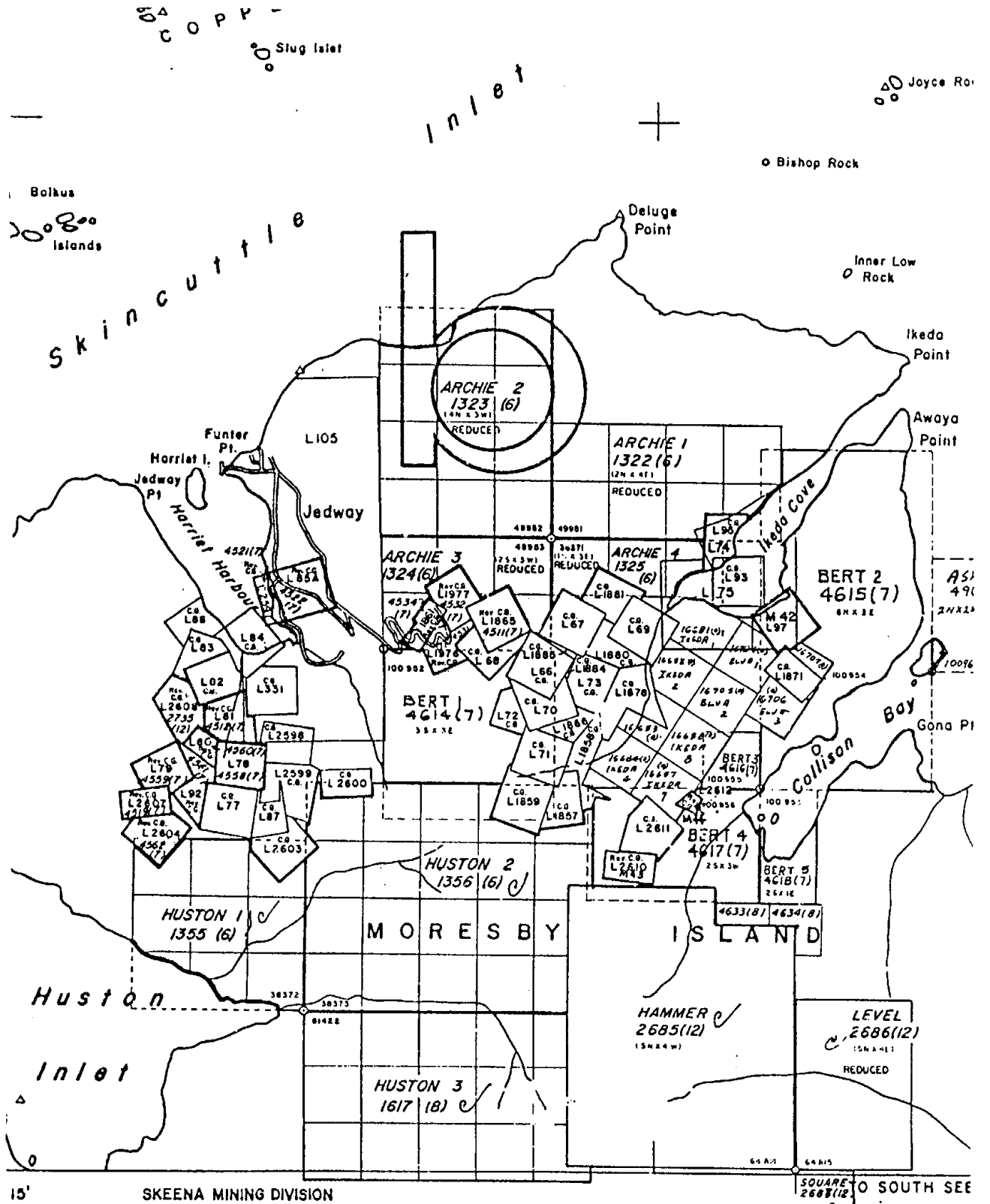


Fig. 2: CLAIM MAP

or helicopter from Sandspit, some 120 km north. Local roads from an old mining operation at Jedway exist on the extreme south west corner of the property. The property is also accessible by boat.

TOPOGRAPHY AND VEGETATION

Elevations on the property range from sea level to 1800 feet. A prominent ENE trending ridge transects the property with steep slopes falling away to the south and more moderate slopes to the north. Slopes are covered in hemlock-spruce forests with a few small areas of cedar-hemlock-spruce forests.

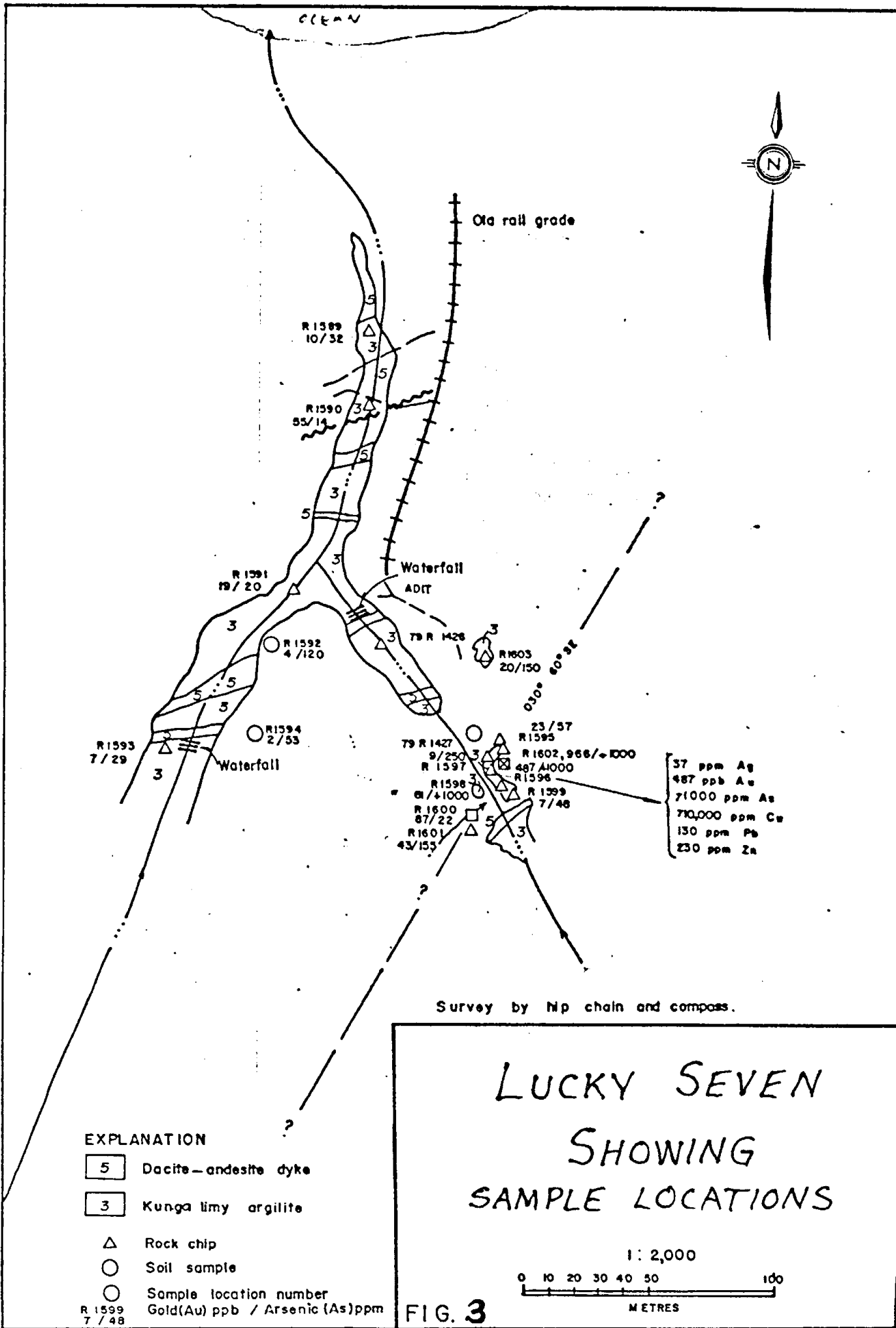
MINERAL CLAIMS

Four claims listed below, in the Skeena Mining Division, are grouped together and form the property.

<u>CLAIM NAME</u>	<u>UNITS</u>	<u>RECORD NO.</u>	<u>RECORD DATE</u>	<u>OWNER</u>
ARCHIE #1	6	1322	June 14, 1979	G.G. Richards
ARCHIE #2	12	1323	" "	"
ARCHIE #3	6	1324	" "	"
ARCHIE #4	3	1325	" "	"

GEOLOGY

Geology has been described in three previous assessment reports and is reproduced in generalized fashion on Figure 4. A normal section of Karmutsen Formation greenstones overlain successively by Kunga Formation massive grey limestone, black limestone, limy argillite, and argillite has been intruded by felsic to mafic dykes and at higher elevations by felsic to mafic sills that are presumably fed by some of the underlying



dykes. Skarn mineralization occurs at various locations within the massive grey limestone and other limy Kunga rocks. Sulphide silicification alteration zones occur within the limy argillites apparently related to some of the dykes. Several adits and trenches occur on some of the above described mineralized zones.

A sulphide vein known as the LUCKEY SEVEN showing, occurs in a northerly flowing creek 250 meters from tidewater within ARCHIE #2 mineral claim (Figures 3 and 4). The vein is composed largely of the sulphides, pyrite, chalcopyrite and pyrrhotite with traces of sphalerite and tetrahedrite. Sampling by the author in a previous report yielded values of 37 ppm Ag, 487 ppb Au, + 1000 ppm As, + 10,000 ppm Cu, 130 ppm Pb and 230 ppm Zn over one metre width that strikes 030° and dips 60° SE.

The vein was probably located in 1915 by H.E. Bodine. The next year a 50-foot inclined shaft and 60-foot drift were developed and 42 tons of ore shipped, which contained: Gold, 60 ounces; silver, 218 ounces; copper, 8336 pounds. In 1917-18 a 375-foot adit was driven and a 100-foot raise developed to the drift (BCDM Bulletin No. 54, p. 198).

The adit and inclined shaft were located in the field. The adit was in sound shape but was not entered. The inclined shaft was badly caved. The vein outcrops only in the creek exposure as described above and heads under till cover to the northeast and southwest.

GEOCHEMISTRY

General

One hundred twenty pulps were selected from available pulps and sent to Chemex Labs Ltd., 212 Brooksbank Avenue, North Vancouver, B.C. for Au, Pt, Pd, Co and Ni analyses. Sample locations are shown on Figure 4 and results are provided in the Appendix. Of the 120 samples, 32 were rock chip samples, one was a silt sample, and 87 were soil samples.

The combination of elements Au, Pt, Pd were treated by fire assay of a 20 gram sample of -80 mesh material, followed by analysis using ICP-atomic fluorescence spectroscopy. This is a relatively new analytical technique that is supposed to yield detection limits of 2 ppb Au, 5 ppb Pt and 2 ppb Pd.

Cobalt-nickel analyses were done by digesting a one gram sample of -80 mesh material in nitric-aqua regia followed by atomic absorption analyses with a detection limit of 1 ppm for both elements.

Results are all disappointingly low including Co-Ni which are considered pathfinder elements for platinum group mineralization in that they are often more dispersed in soils and stream sediments than are platinum group elements. Even the strongly mineralized zone in the old LUCKY SEVEN showing did not show even weakly anomalous values for platinum. This zone, which was sampled by R1596, ran 470 ppb Au which compares well with 487 ppb Au obtained by a previous geochemical analysis and reported in a previous assessment report.

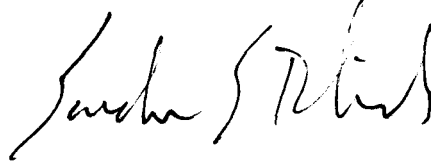
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CONCLUSIONS AND RECOMMENDATIONS

The ARCHIE Property has no anomalous values of platinum and palladium throughout the 120 samples analyzed. As these samples represent a cross-section of geological environments on the property, no further evaluation of platinum group metal mineralization is warranted.

Future work should be directed at evaluating existing showings such as the LUCKY SEVEN showing on the north end of the property and several showings on the hillside facing Ikeda Cove.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Gordon G. Richards". The signature is written in a cursive style with a large initial "G" and "R".

Gordon G. Richards, P.Eng.

STATEMENT OF COSTS

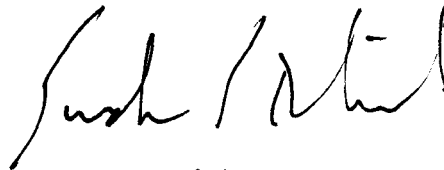
Time:

K.W. Livingstone	1-1/2 days @ \$350/day	\$ 525.00
Andrew Short	2 days @ \$150/day	300.00
J.S. Christie	1/2 day @ \$350/day	175.00
G.G. Richards	1/2 day @ \$350/day	175.00
Pulp Storage, H. Pratt		200.00
Chemex Labs Ltd.		1,830.00
Terry's Drafting Service		538.22
Report writing, typing, reproduction		<u>1,500.00</u>
		\$ <u>5,243.22</u>

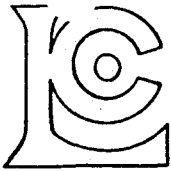
STATEMENT OF QUALIFICATIONS

I, Gordon G. Richards, of Richmond, British Columbia, do hereby certify that:

1. I am a Professional Engineer of the Province of British Columbia, residing at 5700 Forsythe Crescent, Richmond, B.C., V7C 2C3.
2. I am a graduate of the University of British Columbia, B.A.Sc. 1968, M.A.Sc. 1974.
3. I have practised my profession as a mining exploration geologist continuously since 1967.
4. This report is based on my personal knowledge of the district, and mapping of the geology at the property.



Gordon G. Richards, P.Eng.



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BRITISH COLUMBIA, CANADA V7J-2C1

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RICHMOND, B.C.
V7C 2C3

Project : ARCHIE

Comments:

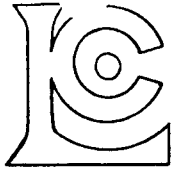
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Invoice # : I-8715667
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8715667

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81-C 1019	214 ---	2	< 2	< 5														
81-C 1020	214 ---	4	< 2	< 5														
81-C 1021	214 ---	< 2	< 2	< 5														
81-C 1022	214 ---	< 2	< 2	< 5														
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81-H 1349	214 ---	< 2	< 2	< 5														
81-B 1333	214 ---	< 2	< 2	< 5														
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81-B 1336	214 ---	< 2	< 2	< 5														
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81-B 1340	214 ---	< 2	< 2	< 5														
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81-B 1348	214 ---	2	< 5	< 5														
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81-R 1589	214 ---	< 2	< 2	< 5														
81-R 1590	214 ---	< 2	< 2	< 5														
81-R 1591	214 ---	< 2	< 2	< 5														

CERTIFICATION :

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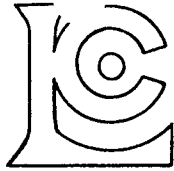
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SAMPLE DESCRIPTION	PREP CODE	Au ppb AFS	Pd ppb AFS	Pt ppb AFS										
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81-R 1602	214 ---	40	< 2	< 2	< 5									
81-R 1603	214 ---	4	< 2	< 2	< 5									

CERTIFICATION :



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BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

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V6S 1Y4

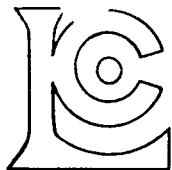
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81-C 1028	214 ---	18	5								
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81-H 1302	214 ---	31	37								
81-H 1303	214 ---	31	6								
81-H 1304	214 ---	26	5								
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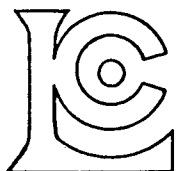
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80-H 485	214 ---	21	17								
80-H 486	214 ---	15	4								
80R 598	214 ---	9	2								

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BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

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V7C 2C3

Project: ARCHIE

Comments:

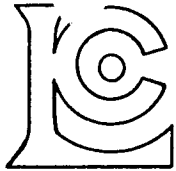
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81-C 1026	214 ---		47	48							
81-C 1027	214 ---		86	31							
81-C 1029	214 ---		71	22							
81-C 1030	214 ---		38	60							
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81-R 1589	214 ---		55	31							
81-R 1590	214 ---		52	18							
81-R 1591	214 ---		48	34							

CERTIFICATION :

Janet Seckler



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BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

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V7C 2C3

Project : ARCHIE

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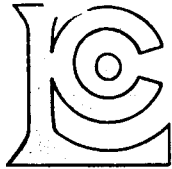
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Invoice # : I-8720096
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8720096

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81-R 1598	214 ---	245	44								
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81-R 1600	214 ---	34	16								
81-R 1601	214 ---	82	67								
81-R 1602	214 ---	432	14								
81-R 1603	214 ---	84	42								

CERTIFICATION

Scott Beckler



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 212 BROOKSBANK AVE., NORTH VANCOUVER,
 BRITISH COLUMBIA, CANADA V7J-2C1
 PHONE (604) 984-0221

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 RICHMOND, B.C.
 V7C 2C3

Project :
 Comments :

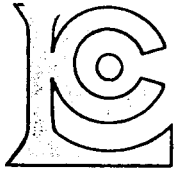
•Page : 2
 Total Pages: 2
 Date : 2-SEP-87
 Invoice # : I-8720097
 P.O. # : NONE

CERTIFICATE OF ANALYSIS A8720097

SAMPLE DESCRIPTION	PREP CODE	Au ppb AFS	Pd ppb AFS	Pt ppb AFS						
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81-H 1345	214 ---	4	< 4	< 10						
81-H 1346	214 ---	not / ss	not / ss	not / ss						
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81-B 1339	214 ---	not / ss	not / ss	not / ss						
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81-B 1346	214 ---	not / ss	not / ss	not / ss						
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81-R 1581	214 ---	not / ss	not / ss	not / ss						
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80-H 463	214 ---	76	8	< 10						
80-H 485	214 ---	152	< 4	< 10						
80-H 486	214 ---	16	< 4	< 10						
80R 598	214 ---	not / ss	not / ss	< 10						

CERTIFICATION :

BC J



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 BROOKSBANK AVE., NORTH VANCOUVER,
 BRITISH COLUMBIA, CANADA V7J-2C1
 PHONE (604) 984-0221

RUANCO ENTERPRISES LTD.

5700 FORSYTHE CRES.
 RICHMOND, B.C.
 V7C 2C3

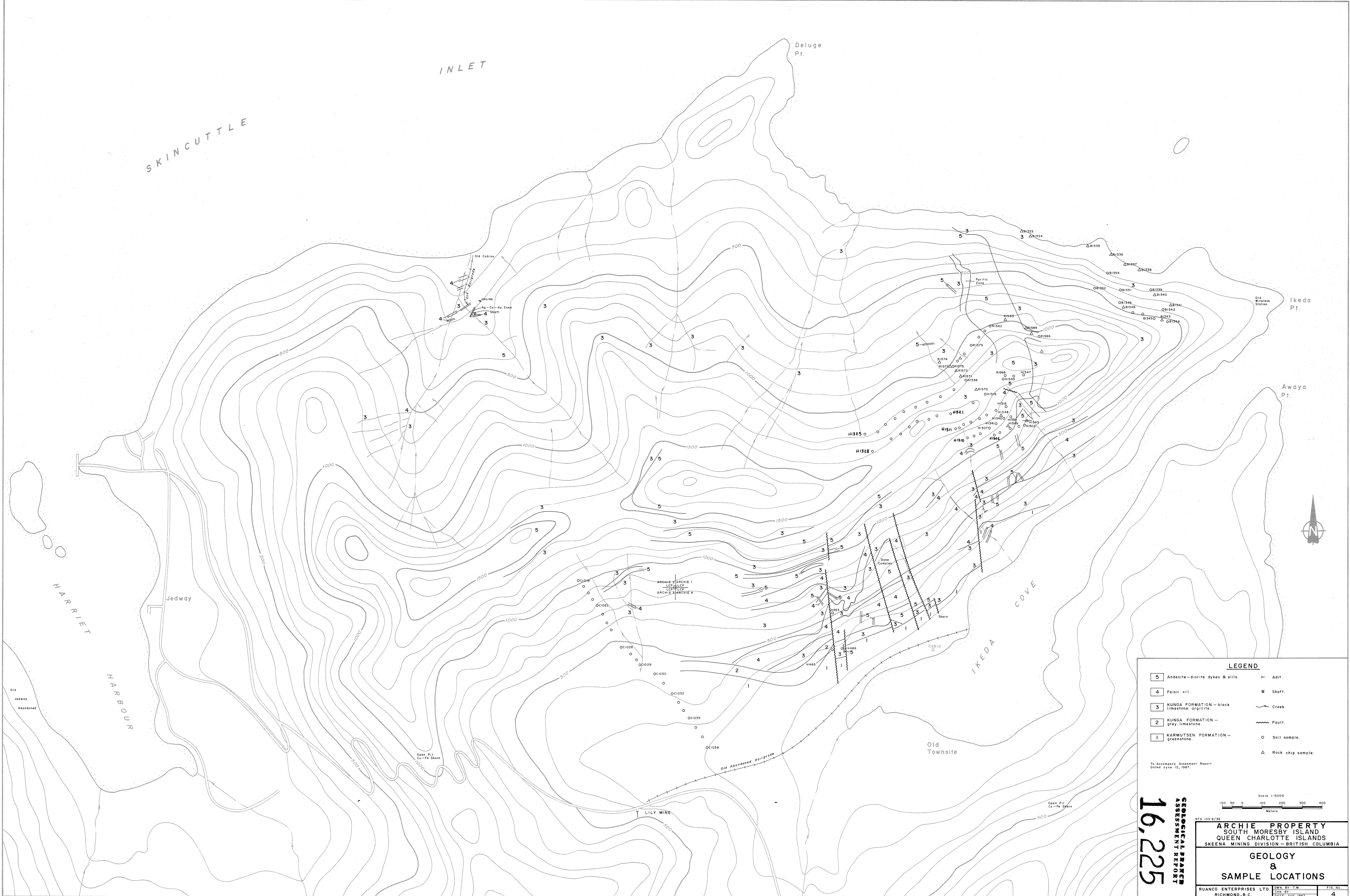
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CERTIFICATE OF ANALYSIS A8720097

SAMPLE DESCRIPTION	PREP CODE	Au ppb AFS	Pd ppb AFS	Pt ppb AFS						
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81-H 1301	214	---	not/ss	not/ss	not/ss					
81-H 1302	214	---	not/ss	not/ss	not/ss					
81-H 1303	214	---	12	< 4	< 10					
81-H 1304	214	---	not/ss	not/ss	not/ss					
81-H 1305	214	---	not/ss	not/ss	not/ss					
81-H 1306	214	---	4	< 4	< 10					
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81-H 1308	214	---	not/ss	not/ss	not/ss					
81-H 1309	214	---	not/ss	not/ss	not/ss					
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81-H 1311	214	---	not/ss	not/ss	not/ss					
81-H 1312	214	---	4	< 4	< 10					
81-H 1313	214	---	8	< 4	10					
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81-H 1315	214	---	not/ss	not/ss	not/ss					
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81-H 1320	214	---	not/ss	not/ss	not/ss					
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81-H 1322	214	---	8	< 4	< 10					
81-H 1324	214	---	< 4	< 4	< 10					
81-H 1325	214	---	< 4	< 4	< 10					
81-H 1326	214	---	< 4	< 4	< 10					
81-H 1327	214	---	4	< 4	< 10					
81-H 1328	214	---	4	< 4	< 10					
81-H 1329	214	---	< 4	< 4	< 10					
81-H 1330	214	---	480	380	540					
81-H 1332	214	---	not/ss	not/ss	not/ss					
81-H 1333	214	---	not/ss	not/ss	not/ss					
81-H 1334	214	---	54	56	80					
81-H 1335	214	---	not/ss	not/ss	not/ss					
81-H 1336	214	---	4	< 4	< 10					
81-H 1337	214	---	not/ss	not/ss	not/ss					
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81-H 1339	214	---	< 4	< 4	< 10					
81-H 1340	214	---	not/ss	not/ss	not/ss					

CERTIFICATION :



SKINCUTTLE

INLET

Deluge Pt.

Ikeda Pt.

Awaya Pt.

HARRIET

HARBOUR

Jedway

IKEDA COVE

Old Townsite

LILY MINE

LEGEND

5	Andesite-diorite dykes & sills.	Adit.
4	Felsic sill.	Shaft.
3	KUNGA FORMATION - black limestone argillite.	Creek.
2	KUNGA FORMATION - gray limestone.	Fault.
1	KARMTSEN FORMATION - greenstone.	Soil sample.
		Rock chip sample.

To Accompany Assessment Report
Dated June 12, 1987.

Scale 1:5000
100 50 0 100 200 300 400
Meters

NTS 103 B/3E

16,225

GEOLOGICAL RESEARCH ASSESSMENT REPORT

ARCHIE PROPERTY
SOUTH MORESBY ISLAND
QUEEN CHARLOTTE ISLANDS
SKEENA MINING DIVISION - BRITISH COLUMBIA

GEOLOGY & SAMPLE LOCATIONS

RUANCO ENTERPRISES LTD. RICHMOND, B.C.	OWN. BY: T.M. CON. BY: DATE: AUG. 1987	FIG. NO. 4
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