

SECURITY

Northwest Moresby Island
Queen Charlotte Islands, B.C.

M486 - SECURITY
OVERPROOF and OP #1-11 MINERAL CLAIMS

NTS 103 ^E/_{10E, 10W}
Skeena Mining Division
Lat. $53^{\circ}05'N$ Long. $132^{\circ}33'W$

REPORT ON GEOLOGY, GEOCHEMISTRY AND
ECONOMIC POTENTIAL

Dates of Work
May 7 - 16, 1979

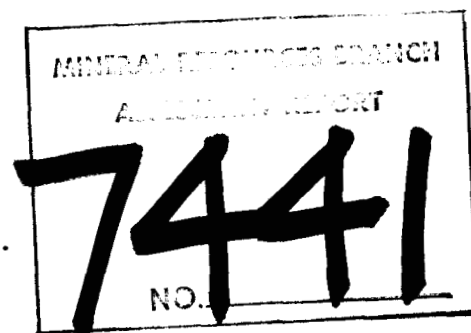
for

Chevron Standard Limited
Minerals Staff
Vancouver, B.C.

by

J.S. Christie, Ph.D.
G.G. Richards, M.A.Sc. P.Eng.

August 15, 1979



Owner - Chevron Canada Limited
Operator - Chevron Standard Limited
Contractor - JMT Services Corp.

INTRODUCTION

The Security Property, comprised of 12 mineral claims (148 units), is centred on the peninsula between Security Inlet and Inskip Channel, on northwest Moresby Island, Queen Charlotte Islands. Staking of the Overproof and Op claims was the outcome of several exploration programmes initiated after anomalous silt samples were collected by the writers around the shores of Inskip Channel and Security Inlet while prospecting in the area in mid-June 1977 and early May 1978. The initial prospecting was funded by B.C. Department of Mines Prospectors Assistance Grants. Initial sampling indicated large areas of high arsenic geochem with associated spotty gold anomalies over a large area of about 5 km by 8 km. The Overproof and Op #1-6 claims were staked to cover the strongest parts of the geochem anomaly in late June and July 1978. Follow-up sampling indicated the need to stake more ground and the Op #7-11 claims were added in early May 1979.

The object of the work programme described in this report was to cover the entire claim block in fairly detailed reconnaissance fashion in order to identify targets worthy of more detailed work. Five geologists were deployed by boat or helicopter daily and completed independent traverses collecting samples for geochemical analysis and noting the most prominent features of the geology. Three target areas (Areas A, B, C) have been identified for more detailed sampling and mapping. Survey control was by hip chain, compass, barometer and topographic map enlargement.



7441

JMT SERVICES CORP.			
SECURITY			
PROPERTY LOCATION MAP			
SCALE			
Mile 136		136 Mile	
Prepared by	Date	NTS MAP AREA	DRAWING NO
Drawn by JSC	SEPT 6/79	103C 16E/W	

LOCATION, TOPOGRAPHY AND ACCESS

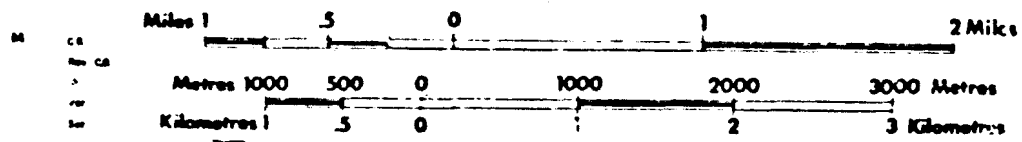
The Property covers the mountainous peninsula between Security Inlet and Inskip Channel some 40 km southwest of Sandspit. Slopes are steep and rocky and the minor drainages tend to be steep-walled, waterfall creeks that are difficult to traverse. Vegetation is typical hemlock - spruce - cedar rainforest to elevation 2000 feet with cypress swamps and brushy alpine vegetation above.

Access at present is by boat or aircraft from Sandspit or Queen Charlotte City. A road is planned to Security Cove by MacMillan-Bloedel to connect with the existing Deena road and Sandspit, but construction dates have not yet been finalized.

CLAIMS

The Property consists of the OVERPROOF and OP #1-11 mineral claims described below and shown on accompanying maps.

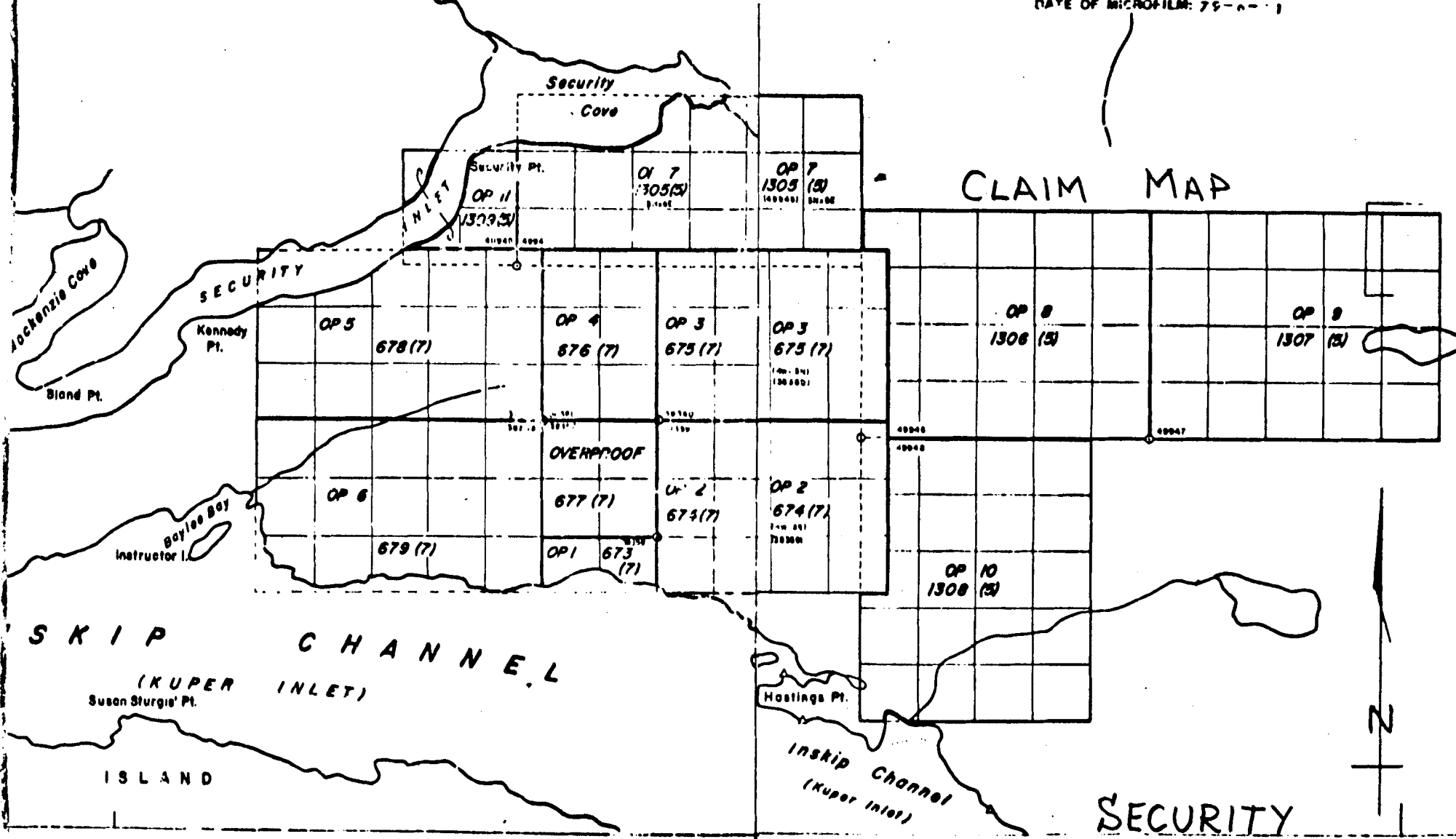
<u>NAME</u>	<u>RECORD NO.</u>	<u>UNITS</u>	<u>RECORD DATE</u> <u>(Month)</u>
OVERPROOF	677	4	July 28, 1978
OP #1	673	2	" " "
#2	674	12	" " "
#3	675	12	" " "
#4	676	6	" " "
#5	678	15	" " "
#6	679	15	" " "
#7	1305	18	May 29, 1979
#8	1306	20	" " "
#9	1307	20	" " "
#10	1308	20	" " "
#11	1309	4	" " "



UNLESS VERIFIED OR SURVEYED THE POSITION OF A LEGAL CORNER POST IS BASED ON THE LOCATION SET FOR IT. FOR FURTHER INFORMATION, APPLY TO THE OFFICE OF THE MINING DIVISION CONCERNED.

DATE OF MICROFILM: 75-6-11

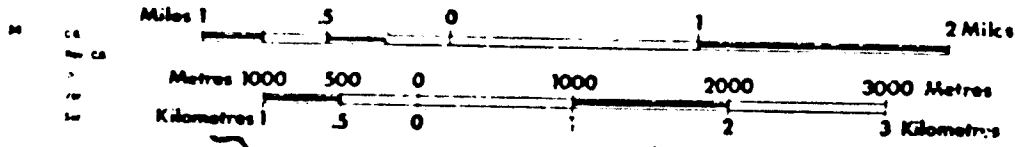
CLAIM MAP



REFERENCE MAP 103 F/1 W

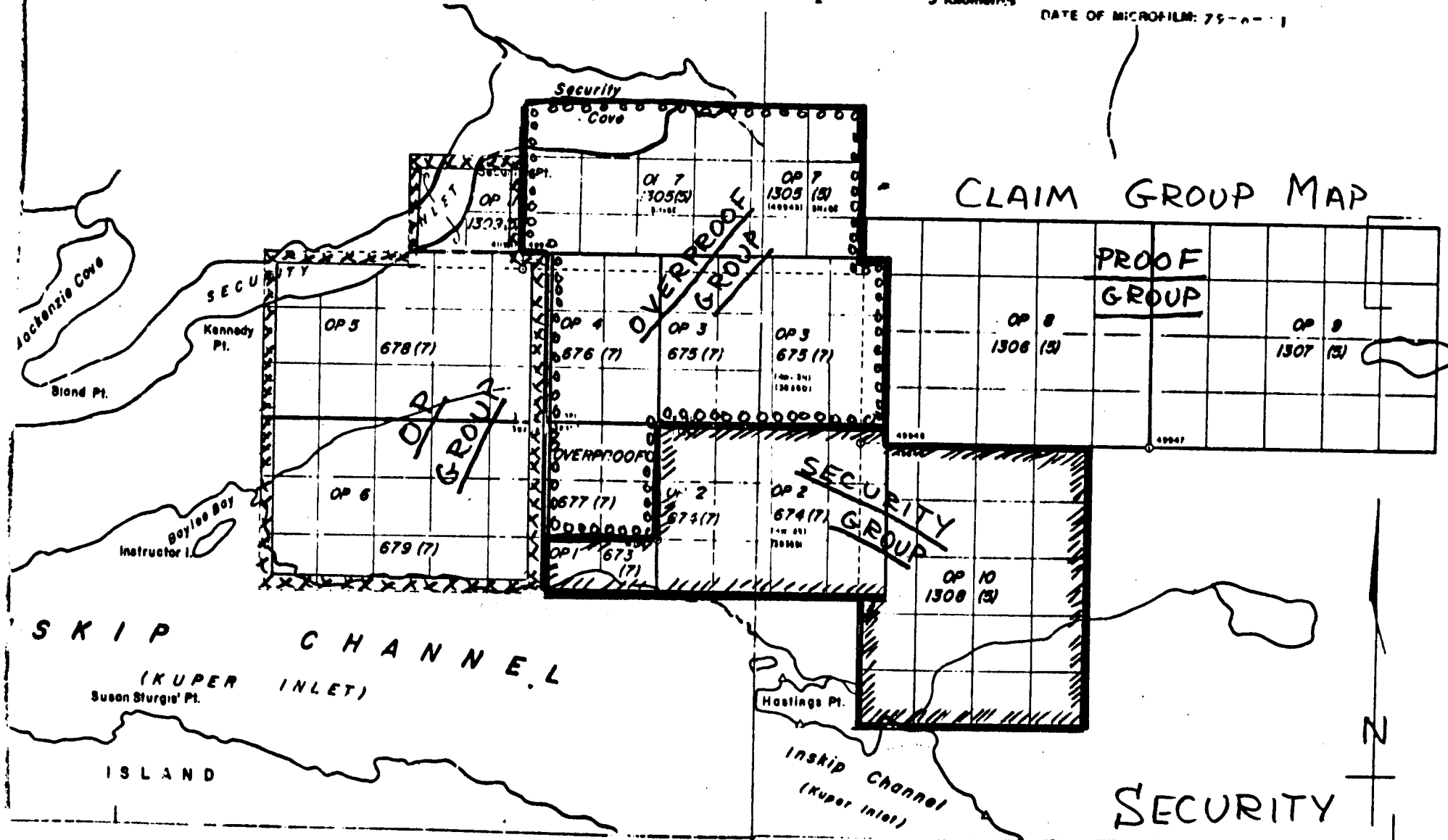
132° 15' SKEENA MINING DIVISION
Mining Division Boundary

SECURITY
Crown Granted



UNLESS VERIFIED OR SURVEYED THE MAP POSITION OF A LEGAL CORNER POST IS BASED ON THE LOCATOR'S VETCH FOR OTHER INFORMATION, APPLY TO THE OFFICE OF THE MINING DIVISION CONCERNED.

DATE OF MICROFILM: 75-0-1



REFERENCE MAP 103 F/1 W

132° 15' SKEENA MINING DIVISION
Mining Division Boundary

--- Crown Granted

GEOLOGY

Regional mapping by Sutherland-Brown 1968, B.C. Dept. of Mines Bull. #54, indicated that the Security area is underlain by rocks of the Karmutsen and Kunga Formations of Triassic-Jurassic age. The Karmutsen is described as a submarine volcanic succession comprised principally of tholeiitic basalt but containing interbedded aquagene tuffs and minor sediments.

The Kunga is a sedimentary succession which includes massive grey basals limestone overlain by black limestones, flaggy black limestone and limy argillite, thin bedded limy argillite-argillite, and non calcareous argillite. Distinctive Kunga ammonites and pelecypods were noted at several localities on the Property.

Reconnaissance mapping has indicated the presence of a stock composed of medium grey quartz feldspar porphyry in the north eastern part of the property on the OP#8 and#9 mineral claims. Dykes of similar composition and texture are numerous and tend to lie along northeasterly to northwesterly structures. Dykes of more leucocratic quartz porphyry which typically display flow banding are also abundant. Both types of dyke contain disseminated pyrite and quartz-pyrite veinlets and bear a close spatial relationship to silica alteration zones and the gold-arsenic geochem anomalies.

STRUCTURE

The structure on the Security Property is not well known but steeply dipping faults appear to be important. These vary in character from sharp planar slickensided surfaces to gougy zones many feet in width. In age, they range from pre to post-dyke and in some instances the early formed faults have localized dykes and zones of strong silica-pyrite, and carbonate-silica-pyrite alteration.

Minor folds have been recognized in the Kunga argillites and folding on a larger scale may be an important feature of the geology at Security. Geology to date is inadequate to demonstrate a fold pattern.

ALTERATION AND MINERALIZATION

Alteration at Security is variable in character but hard dense silicification accompanied by large quartz veins, quartz veinlets, quartz breccia, fracture and disseminated pyrite, and general bleaching is most striking. Such zones are shown on the attached map where it is apparent that the above type of hard silicification is closely associated with acid dykes and developed to the greatest extent within the volcanic part of the succession. However, occurrences are known within the sediments such as at R242, R435, C243 and C286 where silicified limestone and argillites contain significant gold values.

Less intense and less obvious alteration is widespread on the property. Within the volcanics large zones of chloritization and weak bleaching with up to 2 - 3% introduced pyrite are present. Within the sediments weak hornfels-like silicification or weak pervasive clay alteration (bleaching) accompanied by fracture and disseminated sulfide occurs over fairly large areas. In some argillites, alteration is hardly noticeable but examination with a high power lens reveals abundant fine disseminated and hairline fracture controlled sulfide. Within the thin bedded limy argillites and black limestone, bedded pyrite is common but such pyrite may be a feature of primary sedimentation.

Arsenopyrite, while seldom recognized in the field, may be fairly common considering the strong arsenic geochemistry. Sulfides tend to be fine grained at Security, and surface oxidation and leaching is strong, especially at the higher elevations.

GEOCHEMISTRY

In total some 340 rock, soil and silt samples have been analyzed for Au - As - Hg by Vangeochem Labs Ltd. From these, 36 check analyses were made on the Au by Bondar-Clegg Ltd. Rock chip samples were made up from three to ten rock chips, were small enough to fit into standard kraft sample bags and are therefore only preliminary in nature. Silt samples were collected with a spoon from active silt in creeks. Soil samples were collected from the B-horizon which occurred from 1 cm to 10 cm beneath the A-horizon.

At Vangeochem Labs Ltd. the samples were analyzed geochemically for gold by treating a ten gram sample with an organic acid and analyzing with atomic absorption.

For arsenic, samples were dissolved in perchloric nitric acid and analyzed colorimetrically.

For Hg, samples were dissolved in a controlled aqua regia solution and analyzed by closed cell atomic absorption.

At Bondar Clegg Ltd., for Au, samples were ashed, dissolved and analyzed by closed cell atomic absorption.

7441

GOLD:

Anomalous gold geochem is widespread but spotty and the strongest anomalies known to date are located in the central and western parts of the claim block. Two large areas (A and B on Geology Map) stand out as good target areas for exploration for commercial grade gold mineralization.

Area A some 3000 X 1500 metres in size contains numerous highly anomalous samples. Some of these such as R422 - 1855 ppb Au, R435 - 3140 ppb Au, R242 - 840 ppb Au are high enough to be direct leads to important mineralization considering the widespacing of samples to date.

A smaller area of anomalous gold geochemistry is found in Area B associated with a large northeast trending zone of brecciation, silicification and quartz veining. Sampling to date is sparse but results are moderately encouraging. Soil sample WH-43 - 1000 ppb Au may be a good lead and several rocks in the 50 - 200 ppb range are encouraging as these are leached surface samples.

ARSENIC:

Arsenic forms a strong regional geochem anomaly broader and more consistent than the associated gold anomalies in Areas A and B. A third zone, Area C, is indicated to be of interest on the basis of strong arsenic geochemistry although surface gold values are low. Area C is centred on the largest and strongest alteration system known on the property. Silicification, brecciation and quartz veining is intense and pyrite-quartz-tourmaline alteration is strong. The ridge outcrops, samples R397 - R403 are oxidized and sulfides are almost totally leached, and arsenic values are low. However samples collected on both sides beneath the ridge outcrops are highly anomalous in arsenic R405 - R405 and C224 - C230.

Quartz porphyry and quartz feldspar porphyry dykes and stock are also strongly positive for arsenic.

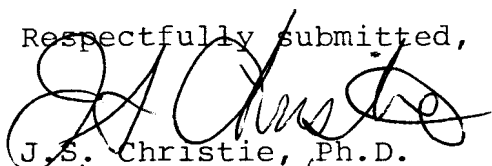
MERCURY:

Mercury values are fairly low over most of the property. The higher mercury values obtained correlate well with mapped faults, especially faults which have localized ankeritic carbonate-pyrite mineralization. At present mercury does not appear to be a good indicator of alteration or mineralization associated with gold.

CONCLUSIONS

The reconnaissance geology-geochemical programme on the Security property has indicated 3 large areas (A, B and C) worthy of more detailed work on the basis of strongly anomalous gold and/or arsenic geochemistry, strong alteration and sulfide mineralization, and favourable geology. A soil grid should be established in each of the three areas although spacing of samples should remain fairly broad. Lines 100 - 150 metres apart with samples at 50 metre intervals should be adequate for the next phase. Geology should be noted and sample density should be increased in areas of existing anomalies or in areas where sulfide or quartz mineralization is encountered on the lines. Samples should be analyzed for Au - As. This programme of grid sampling will allow selection of the most favourable areas of the property for detailed mapping and sampling.

Respectfully submitted,



J.S. Christie, Ph.D.



G.G. Richards, M.A.Sc. P.Eng.

August 15, 1979

ITEMIZED STATEMENT OF COSTS

Man days - Field - Geologists				
D. Arscott	(May 8-15)	7 days	@ 140.00	980.00
J.S. Christie	(May 8-15)	7.5 days	@ 150.00	1,125.00
G.G. Richards	(May 8-15)	7.5 days	@ 150.00	1,125.00
W.A. Howell	(May 8-15)	8.5 days	@ 115.00	977.50
C. Harvivel	(May 8-15)	7.5 days	@ 125.00	937.50
Man days - Office - plotting data:				
J.S. Christie)			
G.G. Richards)	1/2 man day each		270.00
W.A. Howell)			
C. Harvivel)			
Food & meals - 36 man days @ \$20.00				720.00
Boat & motor rental - 7 days @ \$50.00				350.00
Truck rental - one day @ \$50.00				50.00
Camp & equipment rental				75.00
Technical supplies & equipment - flagging, etc.				200.00
Geochem analyses - Vangeochem				3,757.50
Map enlargements - Vancal				233.41
Air fare - 4 men one way - Vancouver to Sandspit				306.80
Expense Accounts:				
D. Arscott				108.75
J.S. Christie				40.11
W.A. Howell				74.68
C. Harvivel				90.05
Air freight				37.21
Queen Charlotte Helicopters Ltd.				
9 May	1:00 hr			
11 May	1:15 hrs			
12 May	1:00 hr			
13 May	1:00 hr			
14 May	<u>1:00 hr</u>			
	5:15 hrs	@ \$314.00		1,648.50
Trans Provincial Airlines:				
8 May	80 miles	\$168.00		
15 May	80 miles	<u>168.00</u>		
		\$336.00		336.00
Report				<u>600.00</u>
				<u>\$ 14,043.01</u>

CERTIFICATE OF QUALIFICATIONS

I, James S. Christie of Vancouver, British Columbia do hereby certify that,

1. I am a Professional Geologist residing at 3921 W. 31st Ave., Vancouver, B.C. V6S 1Y4.
2. I am a graduate of the University of British Columbia B.Sc. Honours Geology - 1965, Ph.D. Geology - 1973.
3. I have practiced my profession as a mining exploration geologist, continuously since 1965.
4. I am a Fellow of the Geological Association of Canada.
5. I am a Member of the Geological Society of America.
6. This report is based on my personal knowledge of the district, and mapping of the geology at the property.

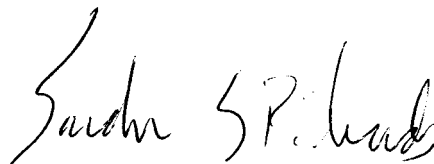


James S. Christie, Ph.D.

STATEMENT OF QUALIFICATIONS

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

1. I am a Professional Engineer of the Province of British Columbia, residing at 818 West 68th Ave, Vancouver, B.C., V6P-2V2.
2. I am a graduate of the University of British Columbia B.A.Sc. Geology 1968, M.A.Sc. Geology 1974.
3. I have practised my profession as a mining exploration geologist, continuously since 1968.
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.

APPENDIX

GEOCHEM RESULTS



VANGEOCHEM LAB LTD.
 1521 PEMBERTON AVE.,
 NORTH VANCOUVER, B.C.,
 CANADA V7P 2S3

TELEPHONE: 986-5211
 AREA CODE: 604

•Specialising in Trace Elements Analyses•

Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

J.M.T. Services Corporation
 8827 Hedson Street
 Vancouver, B.C. V6P 4N1
 Attention:

Report No: 79 47 009 Page 1 of 9
 Samples Arrived: May 22, 1979
 Report Completed:
 For Project:
 Analyst: Eddie Tang
 Invoice # 2475 Job #79 - 051

Sample Marking	^{SONDA #} Au	Au ppb	As ppm	Hg ppb		
79 C 217 •		nd	15	nd		
18 *		10	10	6		
19 *		10	30	14		
20 *		20	80	20		
21		nd	60	21		
22 •		10	20	2		
23 *		nd	10	12		
24		nd	250	5		
25		nd	400	1		
26		nd	800	nd		
27		nd	1000	nd		
28		nd	350	2		
29		nd	600	30		
30 •		nd	400	nd		
31 *		nd	60	2		
32		nd	300	53		
33 •		nd	60	6		
34		60	300	nd		
35 *		nd	40	4		
79 C 236		nd	200	nd		
79 C 237 *		nd	10	9		
38		nd	60	40		
39 •		10	30	50		
40		10	100	2560		
41 *		nd	nd	87		
42		nd	20	470		25 mesh
43 * 560		530 #	10	25		
44 •		nd	10	15		
45		10	80	55		
46		nd	60	12		25 mesh
47 •		10	10	30		
48 *		nd	2	16		
49 *		nd	20	nd		
50		nd	40	48		
51		nd	60	51		
52 * 290		280 #	40	nd		
53		10	40	8		25 mesh
54 *		nd	20	6		
79 C 255 ,		20 ,	600 ,	72		

REMARKS:

* Rock # samples repeated for analyses

Signed:

% Mo x 1.6682 = % MoS₂ 1 Troy oz./ton = 34.28 ppm 1 ppm = 0.0001% nd = none detected ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



1521 PEMBERTON AVE.,
NORTH VANCOUVER, B.C.,
CANADA V7P 2S3

TELEPHONE: 986-5211
AREA CODE: 604

• Specialising in Trace Elements Analyses •

Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

J.M.R. Services Corporation

Attention:

Report No: **79 47 009** Page 2 of 9
Samples Arrived:
Report Completed:
For Project:
Analyst:

Sample Marking	Au ppb	As ppm	Hg ppb			
79 C 256	50	100	86			
57 *	nd	20	10			
58 *	nd	20	15			
59 *	nd	10	10			
60	nd	100	55			
61 * 40	40	2	6			
62	nd	100	110			
63	10	60	20			
64 *	nd	2	9			
65	nd	150	55			
66	nd	300	47			25 mesh
67 *	10	150	8			
68	nd	80	42			25 mesh
69 *	nd	2	5			
70	10	30	98			25 mesh
71 *	nd	60	2			
72 *	nd	10	3			
73 *	nd	10	nd			
74 *	10	20	nd			
75	nd	40	155			
79 C 276	10	40	3			
77 *	nd	10	180			
78	nd	30	60			
80	nd	2	8			
81	nd	100	85			
82	nd	100	5			
83	nd	200	65			25 mesh
84 *	nd	30	nd			
85 •	nd	20	18			
86 * 395	380 #	4	17		# repeated for analyses	
87	nd	300	83			25 mesh
88	nd	100	61			
79 C 289	nd	60	47			
79 H 351 •	nd	20	10			
52 *	nd	30	22			
53	20	300	56			
54	nd	100	52			
55	nd	150	47			
79 H 356,	nd,	200,	98,			

7441

Signed.

REMARKS:

* Rock



VANGEOCHEM LAB LTD.
 1521 PEMBERTON AVE.,
 NORTH VANCOUVER, B.C.,
 CANADA V7P 2S3

TELEPHONE: 986-5211
 AREA CODE: 604

• Specialising in Trace Elements Analyses •

Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

J.M.T. Services Corporation

Attention:

Report No: **79 47 009** Page **3** of **9**
 Samples Arrived:
 Report Completed:
 For Project:
 Analyst:

Sample Marking	Au ppb	As ppm	Hg ppb			
79 H 357 •	10	4	10			
58	nd	20	170			25 mesh
59	30	4	87			25 mesh Au
60	nd	20	148			
61	10	4	117			25 mesh Au
62	10	15	78			25 mesh Au
63	10	4	70			25 mesh Au
64 •	nd	200	127			
65	10	nd	114			25 mesh
66	40	nd	80			
67 *	10	10	4			
68	nd	15	17			
69	nd	150	125			25 mesh
70	nd	150	130			
71	nd	15	17			
72	10	60	86			
73	20	100	80			
74	10	100	30			
75	10	60	65			
76	10	40	190			
79 H 377	nd	100	68			
78 •	10	15	10			
79	20	40	60			
80	nd	20	50			
81 * 210	190	15	125			
82 *	10	4	5			
83	nd	100	67			
84 * 5	30	4	15			
85 *	10	nd	nd			
86 *	nd	60	3			
87 *	nd	30	9			
88	nd	60	12			25 mesh
89	10	60	147			
90	nd	150	18			
91	nd	40	150			25 mesh
92	nd	15	62			
93	nd	100	18			
94	nd	60	10			
79 H 395 *	nd	nd	14			

REMARKS: * Rock

Signed:

% Me x 1.6683 = % MeS₂ 1 Troy oz./ton = 34.28 ppm 1 ppm = 0.0001% nd = none detected ppm = parts per million
 All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

• Specialising in Trace Elements Analyses •

Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

J.M.T. Services Corporation

Report No: **79 47 009**

Page **4** of **9**

Samples Arrived:

Report Completed:

For Project:

Analyst:

Attention:

Sample Marking	Au ppm	As ppm	Hg ppb			
79 H 396	nd	20	82			25 mesh
97	nd	100	50			
398	nd	10	85			
400	nd	100	115			25 mesh
01	nd	60	80			
02 *	10	nd	10			
03	nd	40	360			
04	nd	60	286			
05	nd	40	460			
06	nd	60	177			
07	nd	200	45			
08 •	nd	100	87			
09	nd	60	135			
10 • 5	20	60	490			
11	nd	80	172			
12	10	60	230			
13	20	40	490			
14	10	40	175			25 mesh
15	nd	20	185			
16	20	60	550			
79 H 417	30	4	90			
79 H 418	nd	10	60			
79 R 348	nd	10	37			
49	nd	100	nd			
50	30	100	43			
51 *	nd	20	3			
52 *	nd	40	nd			
53 *	nd	4	3			
54 *	nd	30	3			
55 *	nd	20	30			
56 *	nd	20	3			
57 * 100	60	150	5			
58	nd	100	10			25 mesh Au
59	nd	100	20			
60 * 50	60	60	nd			
61 *	nd	60	nd			
62	nd	40	42			25 mesh
63	nd	100	5			
79 R 364	nd	100	nd			

REMARKS:

* Rock

Signed: 

% Mo x 1.6663 = % MoS₂

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

• Specialising in Trace Elements Analyses •

Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

J. M.R. Services Corporation

Report No: **79 47 009** Page **5** of **9**
 Samples Arrived:
 Report Completed:
 For Project:
 Analyst:

Attention:

Sample Marking	Au ppb	As ppm	Hg ppb			
79 R 365 *	nd	80	2			
66 •	nd	40	4			
67	nd	60	80			25 mesh
68	nd	80	52			25 mesh
69	nd	60	10			
70	nd	100	55			
71	nd	150	17			25 mesh
72	10	200	2			
73 *	nd	nd	6			
74	nd	40	18			25 mesh
75	10	150	3			
76	10	40	2			25 mesh
77 •	nd	20	4			
78 * 260	290 #	600	45		# repeated	for analyses
79 *	nd	10	3			
80 * 35	20	100	53			
81 • 20	10	40	23			
82 * 25	20	200	37			
83	30	150	56			
84	nd	20	4			
79 R 385 •	nd	10	5			
86	nd	60	40			25 mesh Au
87	nd	40	78			
88 *	nd	20	5			
89	nd	60	7			
90	20	60	120			
91	nd	80	9			
92 * <5	30	4	7			
93 * 10	20	10	12			
94 * 40	30	60	6			
95	nd	60	45			25 mesh
96	nd	80	45			25 mesh
97 * <5	40	80	4			
98	nd	40	45			
399 * <5	40	60	9			
400	nd	40	85			
01	nd	40	62			
02 *	nd	4	6			
79 R 403 *	nd	60	15			

REMARKS: * Rock

Signed: 

% Mo x 1.6683 = % MoS₂ 1 Troy oz./ton = 34.28 ppm 1 ppm = 0.0001% nd = none detected ppm = parts per million
 All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

J.M.T. Services Corporation

Attention:

Report No: **79 47 009**Page **6** of **9**

Samples Arrived:

Report Completed:

For Project:

Analyst:

Sample Marking	Au ppb	As ppm	Hg ppb			
79 R 404	nd	80	102			
05	nd	400	62			
06 •	nd	100	50			
07	nd	>1000	14			
08 *	10	60	12			
09	10	1000	20			
10 *	nd	15	20			
11 *	nd	20	112			
12	nd	200	60			
13 * 105 ✓	80	20	55			
14 *	10	40	60			
15	nd	40	55			
16 • 730	700 #	800	nd			
17 *	70	200	nd			
18	nd	nd	65			
19	nd	4	190			
20	10	20	45			25 mesh
21	nd	20	54			
22	60	800	64			
23 * 2075	1855 #	>1000	8			
79 R 424	10	200	88			
25	nd	4	70			
26	nd	30	48			25 mesh
27	nd	30	64			
28	nd	50	58			
29	20	100	392			25 mesh
30	40	80	58			25 mesh
31	625 #	200	24			25 mesh
32	nd	150	48			25 mesh
33	nd	60	68			25 mesh
34	20	60	120			
35	30	60	130			
36 * 3635	3140 #	15	14			
37	nd	200	75			
38	10	20	138			
39	nd	40	74			
40	10	40	65			25 mesh
41 *	nd	60	60			
79 R 442	nd ##	40	135			

* rock, # repeated analyses

Signed: % Mo x 1.6583 = % MoS₂

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used



VANGEOCHEM LAB LTD.
 1521 PEMBERTON AVE.,
 NORTH VANCOUVER, B.C.,
 CANADA V7P 2S3

TELEPHONE: 986-5211
 AREA CODE: 604

• Specialising in Trace Elements Analyses •

Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

J.M.T. Services Corporation

Attention:

Report No: **79 47 009**

Page **7** of **9**

Samples Arrived:

Report Completed:

For Project:

Analyst:

Sample Marking	Au ppb	As ppm	Hg ppb			
79 R 443	nd	100	82			25 mesh
79 WH 1 *	nd	20	72			
2	nd	15	15			
3 *	10	10	46			
4	nd	40	64			
5 *	nd	30	4			
6	nd	60	64			
7 *	nd	30	14			
8 • 15	20	nd	6			
9	10	40	70			25 mesh
10	nd	30	72			25 mesh
11 *	nd	200	12			
12	nd	nd	160			25 mesh
13	nd	30	150			25 mesh
14	nd	100	54			25 mesh
15	nd	40	65			25 mesh
16 •	nd	20	38			
17	60	100	106			25 mesh
17 H.S. *	nd	30	34			
18	nd	20	38			
79 WH 19 .	10	40	48			25 mesh
20	10	60	84			
21	10	20	160			
22	nd	30	78			
23	nd	30	64			25 mesh
24	nd	40	60			
25	nd	60	64			
26	nd	nd	52			25 mesh
27	nd	40	372			25 mesh
28	30	20	150			
29	30	4	3280			
30	nd	60	820			
31	nd	20	640			25 mesh Au
32	nd	40	280			
33	nd	30	166			
34	10	60	184			
35	nd	20	332			
36	10	30	128			
79 WH 37	20	100	100			

REMARKS: * Rock

Signed: 

% Mo x 1.6683 = % MoS₂

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



VANGEOCHEM LAB LTD.
 1521 PEMBERTON AVE.,
 NORTH VANCOUVER, B.C.,
 CANADA V7P 2S3

TELEPHONE: 986-5211
 AREA CODE: 604

• Specialising in Trace Elements Analyses •

Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

J.M.T. Services Corporation

Attention:

Report No: 79 47 009

Page 8 of 9

Samples Arrived:

Report Completed:

For Project:

Analyst:

Sample Marking	Au ppb	As ppm	Hg ppb			
79 WH 38 *	nd	60	96			
39	nd	40	60			
40 *	nd	10	34			
41	nd	40	150			
42	nd	60	132			25 mesh
43	1000	800	140			
44 * 5	20	4	12			
45	60	400	84			25 mesh
46	nd	2	78			
47 •	10	2	50			
48	nd	4	94			25 mesh
49	nd	2	30			25 mesh
50	nd	2	74			
51	nd	30	102			
52	nd	20	84			
53	nd	10	88			
54	20	10	70			
55	nd	4	130			
56	nd	10	34			25 mesh
57	10	60	28			
79 WH 60	nd	30	50			
61 *	10	10	6			
62	nd	40	96			
63	nd	40	82			
64	nd	10	132			25 mesh
65	10	60	50			
66 *	nd	20	60			
67	nd	40	32			25 mesh
68	nd	200	42			25 mesh
69 *	nd	20	14			
70	nd	30	18			
71	nd	40	60			
72	nd	60	64			
73	nd	20	360			
74 *	nd	100	18			
75 *	nd	2	10			
79 WH 76	20	600	48			
S D9 1 * 10	20	2	20			
S D9 2 *	10	40	10			

7441

Signed: *[Signature]*

REMARKS:

* Rock

Signed:



VANGEOCHEM LAB LTD.
 1521 PEMBERTON AVE.,
 NORTH VANCOUVER, B.C.,
 CANADA V7P 2S3

TELEPHONE: 986-5211
 AREA CODE: 604

• Specialising in Trace Elements Analyses •

Certificate of Geochemical Analyses

- IN ACCOUNT WITH -

J.M.T. Services Corporation

Attention:

Report No: **79 47 009** Page **9** of **9**
 Samples Arrived:
 Report Completed:
 For Project:
 Analyst:

Sample Marking	Au ppb	As ppm	Hg ppb			
S D9 3	nd	20	28			
4	nd	40	48			
5A *	nd	30	20			
6 * 25	30	30	10			
7 *	nd	10	20			
8 * 70	50	60	6			
9 45	20	20	44			
10A *	10	2	6			
10B *	nd	60	12			
11 •	nd	100	18			
12 •	10	2	6			
14 • 40	40	30	4			
15 * 80	90	20	10			
16	nd	400	56			
17 *	nd	40	6			
18 *	nd	30	44			
19	nd	4	80			
20 * 75	60	400	nd			
21 •	nd	30	8			
22 *	nd	30	64			
S D9 23	nd	10	82			
24	nd	4	22			
25	nd	20	42			
26	nd	10	66			
27	nd	40	128			25 mesh
28	nd	60	60			25 mesh
S D9 29	nd	40	56			

REMARKS:

* Rock

Signed: _____

% Mo x 1.6683 = % MoS₂ 1 Troy. oz./ton = 34.28 ppm 1 ppm = 0.0001% nd = none detected ppm = parts per million
 All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



BONDAR-CLEGG & COMPANY LTD.

1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

Geochemical Lab Report

*Sample 16467
H-467*

Extraction Fire Assay & Hot Aqua Regia

Report No. 29 - 645

Method Atomic Absorption

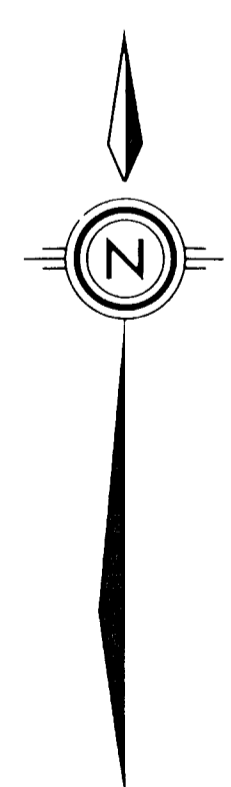
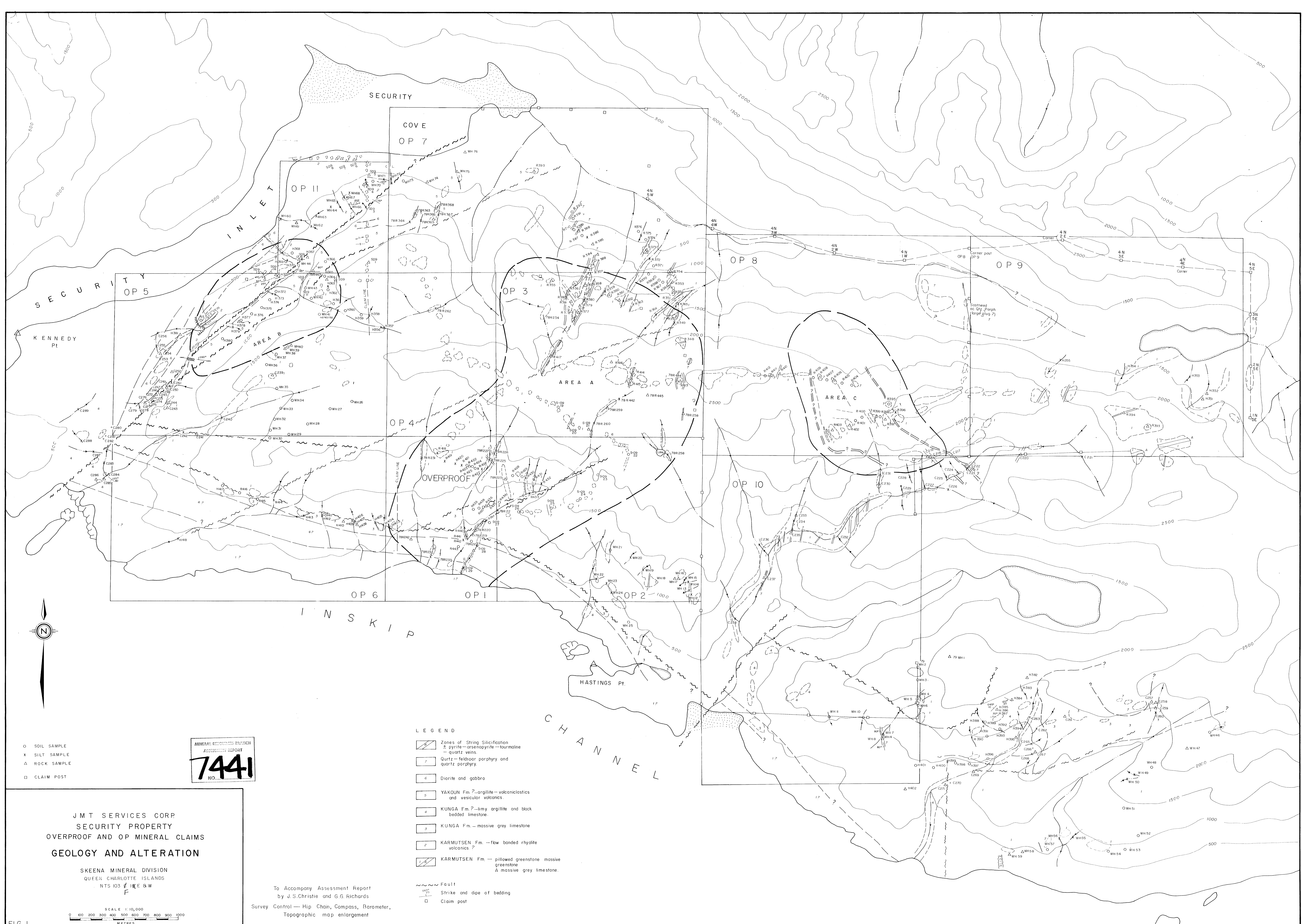
From JMT Services

Fraction Used _____

Date July 5 19 79

SAMPLE NO.	Au ppb				SAMPLE NO.	Au ppb			
79C 243	560				S-D9 6	25			
252	290				8	70			
261	40				9	<15*			
286	395				14	40			
79H 381	210				15	80			
384	5				20	75			
410	5								
79R 34	245								
41	425								
357	100								
360	50								
378	260								
380	35								
381	20								
382	25								
392	< 5								
393	10								
394	40								
397	< 5								
399	< 5								
413	105								
416	730								
417	100								
423	2075								
436	3635								
79H 8	15								
44	5								
QC 31	495								
36	530								
S-D9 1	10								

* detection limit on a small sample

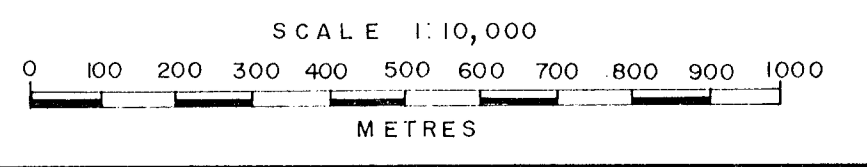


MINERAL RESOURCES DIVISION
ASSESSMENT REPORT
7441
NO.

JMT SERVICES CORP
SECURITY PROPERTY
OVERPROOF AND OP MINERAL CLAIMS
GEOLOGY AND ALTERATION

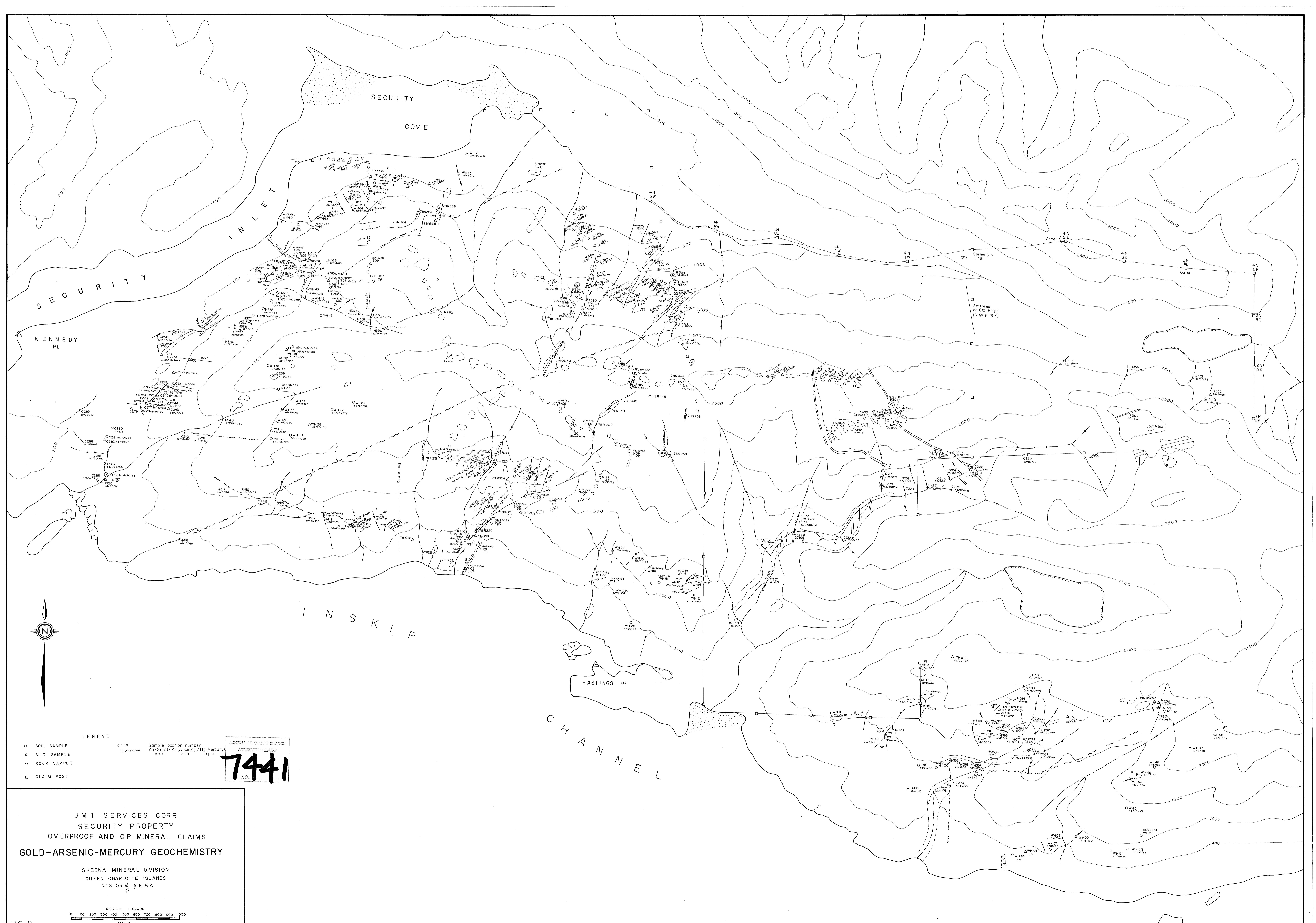
SKEENA MINERAL DIVISION
QUEEN CHARLOTTE ISLANDS
NTS 103 & 104 E & W
F

To Accompany Assessment Report
by J.S. Christie and G.G. Richards
Survey Control — Hip Chain, Compass, Barometer,
Topographic map enlargement



- LEGEND**
- Zones of String Silicification
± pyrite—arsenopyrite—tourmaline
— quartz veins.
 - Quartz—feldspar porphyry and
quartz porphyry.
 - Diorite and gabbro
 - YAKOUN Fm. 2—argillite—volcaniclastics
and vesicular volcanics.
 - KUNGA Fm. 2—limy argillite and black
bedded limestone.
 - KUNGA Fm. 3—massive grey limestone
 - KARMUTSEN Fm. 2—flow banded rhyolite
volcanics ?
 - KARMUTSEN Fm. 1—pillowed greenstone massive
greenstone
A massive grey limestone.
 - Fault
 - Strike and dip of bedding
 - Claim post

FIG. 1



SECURITY
COVE

INLET

SECURITY

KENNEDY
Pt

INSKIP

HASTINGS Pt.

CHANNEL

LEGEND
 O SOIL SAMPLE
 X SILT SAMPLE
 Δ ROCK SAMPLE
 □ CLAIM POST

MINERAL RESOURCES BRANCH
 GEOLOGICAL SURVEY OF CANADA
7441
 HO

JMT SERVICES CORP
 SECURITY PROPERTY
 OVERPROOF AND OP MINERAL CLAIMS
GOLD-ARSENIC-MERCURY GEOCHEMISTRY

SKEENA MINERAL DIVISION
 QUEEN CHARLOTTE ISLANDS
 NTS 103 E & W

SCALE 1:10,000
 0 100 200 300 400 500 600 700 800 900 1000
 METRES

FIG. 2