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VANCOUVER, B.C.

SECURITY GOLD PROSPECT  
Northwest Moresby Island  
Queen Charlotte Islands, B.C.

MINERAL CLAIMS: OVERPROOF, OP #1 - #6  
NTS 103 F/1E and 1W  
SKEENA MINING DIVISION  
LATITUDE 53° 03' N      LONGITUDE 132° 15' W<sup>48"</sup>  
                  01' 54"

REPORT ON THE GEOLOGY AND  
GEOCHEMISTRY OF TWO AREAS OF  
THE SECURITY PROPERTY

PREPARED FOR: ENGLEFIELD RESOURCES LTD.  
VANCOUVER, B.C.

by

D.R. Bennett, B.Sc.  
J.S. Christie, Ph.D.

Owner - Englefield Resources Limited  
Operator - Englefield Resources Limited  
Contractor - Gimlex Enterprises Limited

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

October 25, 1987

16,449

FILMED

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## INTRODUCTION

The Security Property, comprised of 7 mineral claims (66 units) is centered on the peninsula between Security Inlet and Inskip Channel, on northwest Moresby Island, Queen Charlotte Islands. This property was a new discovery in 1978. It was staked on the results of regional and follow-up exploration programs which indicated areas of highly anomalous gold-arsenic geochemistry within a broad regional anomaly of about 5 by 8 km. The stronger anomalies were found to be associated with a number of geological factors such as intense silica-carbonate-tourmaline alteration, quartz veining, fault structures, and a variety of potential host rocks. Recognition of good potential for the discovery of lode gold deposits led to intense exploration of the claims with expenditures totalling \$411,904.17 and including the drilling of fifteen diamond drill holes.

In June, 1987 an exploration program was set up based on a review of the results of past exploration on the property. More detailed sampling and mapping at a 1:1000 scale was completed on two areas of the claim block (designated as A-Zone-South, and B-Zone). The object of this work was to provide detailed geological-geochemical information on extensions of known mineralization.

## PREVIOUS WORK

There is no known history of "old" exploration in this immediate area. It is worth noting, however, that the claim block lies only 8 km NW of Mitchell Inlet, the site of the first lode gold mine in British Columbia. The production from this mine is believed to have been 304 oz of gold and 30 oz of silver, mined from a quartz-calcite stringer system in Triassic Karmutsen volcanics. Initial work in 1979 by JMT Services Corp. included reconnaissance mapping and sampling of the claim block and identification of three gold exploration targets which were designated A-B-C zones. These targets were further delineated with more detailed mapping and sampling on a scale of 1:5000 by JMT geologists later in 1979.

In 1980 Chevron Canada Limited holding the property under option took over exploration and completed more tightly controlled and detailed geological and geochemical work in selected areas. This work was extended to most of the easily accessible potential zones on the property during 1981. Eleven test pits were drilled and blasted in a variety of different rock types to examine the extent of surface leaching in distinct environments. Mr. D. Arscott, Chevron's Project Geologist, stated in a report dated October 28, 1981:

"A fairly extensive surface exploration program on the Security Inlet property during 1981 has delineated exceptionally well developed alteration zones with accompanying Au-As and Cu mineralization.

The setting includes a suite of rocks from Triassic to probably Tertiary, dominated by Triassic Karmutsen basalts, in a strongly block-faulted regime, with some localized folding.

The alteration patterns show a clear broad zoning from carbonate-hematite low in the stratigraphy and strong at the west end of the property to epidote-sericite, silicification, and finally tourmalinization higher up to the east. Locally, broad but intense "hot spots" of silicification carry geochemically anomalous Au and As, suggestive of both low-grade disseminated mineralization and possible high-grade Au, the latter within major quartz vein systems. Cu mineralization is also present in one not yet well defined area. Seven main mineralized zones have been outlined, the most significant of which (zone A1-B1) shows moderate to strong silicification over an area of 500 m by 1300 m, and incorporating a 1 to 7 metre wide quartz vein at least 550 m long. This vein displays rock geochemistry peaking at 680 ppb Au.

Suitable conditions are present for major Au deposition at Security. It may not, however, yield its Au easily. This is in consequence of the lateral and vertical size of its potentially productive host zones, the normal vagrancy of Au distribution, the possibility of surface leaching, and difficulty of accurate sampling even with drilling. Sophisticated structural and petrographic methods will be necessary. Persistence may also be necessary."

In 1982 Chevron completed more mapping and sampling at 1:5000 scale on the A(AB Zone of Chevron) and B Zones, as well as on remaining accessible areas. In addition, very detailed 1:1000 scale mapping and sampling was conducted on the major quartz veins on both A and B Zones.

The detailed geological work defined nine drill targets resulting in the drilling of fifteen diamond drill holes between August 30 and October 6, 1982, totalling 1163.5 metres.

Chevron terminated its option agreement on the property in 1983.

Gimlex Enterprises Ltd. acquired a 100% interest in the Security Property on January 14, 1986 and on February 2, 1987, Englefield Resources Ltd. agreed with Gimlex to acquire full right and title by February 16, 1987.

Programs and expenditures completed on the property by the various operators to date are on file with the Ministry of Mines and are summarized as follows:

<u>Dates</u>	<u>Operator</u>	<u>Expenditures</u>	<u>Program</u>
Aug 15, 1979	JMT Services	\$ 14,043.01	Geology-Geochemistry
Dec 15, 1979	JMT Services	15,093.07	Geology-Geochemistry
Sept 15 1980	Chevron	29,353.83	Geology-Geochemistry
Oct 18, 1981	Chevron	60,671.65	Geology-Geochemistry-Trenching
Dec 30, 1982	Chevron	292,742.61	Geology-Geochemistry-Trenching, Diamond Drilling.
Total expended on property		\$ 411,904.17	

**LOCATION, TOPOGRAPHY AND ACCESS**

The Property covers the mountainous peninsula between Security Inlet and Inskip channels 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 rain forest to elevation 2000 feet with cypress swamps and bushy alpine vegetation above.

The claims cover a rough, narrow and nearly treeless scrub cedar and pine plateau some six km long and the adjacent steep

(40 ° ) heavily forested slopes. Terrain negotiability on foot below the plateau cannot be considered easy and in places is difficult. The overall relief of the property is 890 m.

The climate is typical of West Coast rain forest, with a yearly precipitation (mainly September to May) of up to 500 cm. Despite the amount of rainfall, water is not always abundant at higher elevations which drain quickly during dry spells. There are several small lakes, however, which are not shown on the 1:50,000 topographical map.

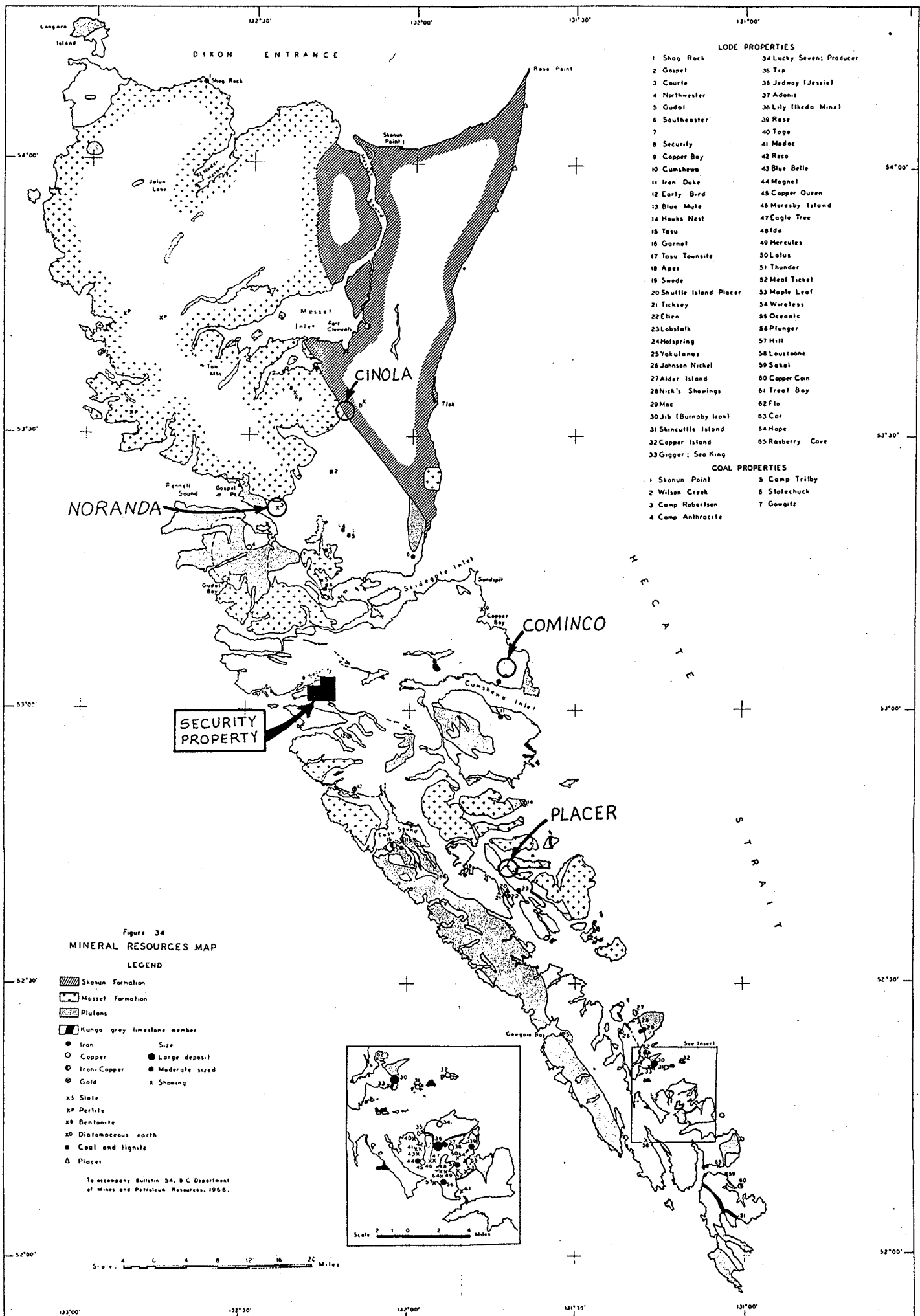
Access at present is by boat or aircraft from Sandspit or Queen Charlotte City. A road is planned to Security Cove by MacMillan Bloedel to connect with the existing Deena road and Sandspit, but construction dates have not yet been finalized. In 1985 this road had been completed to within about 5 miles of the Property.

#### MINERAL CLAIMS

The Property consists of the OVERPROOF and OP #1-#6 mineral claims described below and shown on accompanying claim map.

<u>Name</u>	<u>Record No.</u>	<u>Units</u>	<u>Record Date (Month)</u>
OVERPROOF	677	4	July 28, 1978
OP #1	673	2	July 28, 1978
OP #2	674	12	July 28, 1978
OP #3	675	12	July 28, 1978
OP #4	676	6	July 28, 1978
OP #5	678	15	July 28, 1978
OP #6	679	15	July 28, 1978





- LODE PROPERTIES**
- |                          |                          |
|--------------------------|--------------------------|
| 1 Shag Rock              | 34 Lucky Seven; Producer |
| 2 Goppel                 | 35 Trip                  |
| 3 Courle                 | 36 Jedway / Jessie       |
| 4 Northwester            | 37 Adams                 |
| 5 Gudal                  | 38 Lily Ikeda Mine       |
| 6 Southeaster            | 39 Rose                  |
| 7                        | 40 Togo                  |
| 8 Security               | 41 Madoc                 |
| 9 Copper Bay             | 42 Reco                  |
| 10 Cumshewa              | 43 Blue Belle            |
| 11 Iron Duke             | 44 Magnet                |
| 12 Early Bird            | 45 Copper Queen          |
| 13 Blue Mule             | 46 Moresby Island        |
| 14 Hawks Nest            | 47 Eagle Tree            |
| 15 Tatu                  | 48 Ida                   |
| 16 Garnet                | 49 Hercules              |
| 17 Tatu Townsite         | 50 Lotus                 |
| 18 Apex                  | 51 Thunder               |
| 19 Swede                 | 52 Meal Ticket           |
| 20 Shuttle Island Placer | 53 Maple Leaf            |
| 21 Ticksey               | 54 Wireless              |
| 22 Ellen                 | 55 Oceanic               |
| 23 Lobstak               | 56 Plunger               |
| 24 Holspring             | 57 Hill                  |
| 25 Yukulanas             | 58 Loustone              |
| 26 Johnson Nickel        | 59 Sakai                 |
| 27 Alder Island          | 60 Copper Can            |
| 28 Nick's Showings       | 61 Treat Bay             |
| 29 Mac                   | 62 Flo                   |
| 30 Jib (Burnaby Iron)    | 63 Cor                   |
| 31 Skincuffe Island      | 64 Hope                  |
| 32 Copper Island         | 65 Raspberry Cove        |
| 33 Gigger; Sea King      |                          |
- COAL PROPERTIES**
- |                   |               |
|-------------------|---------------|
| 1 Skanun Point    | 5 Camp Tribby |
| 2 Wilson Creek    | 6 Slatechuck  |
| 3 Camp Robertson  | 7 Gougitz     |
| 4 Camp Anthracite |               |

Figure 34  
MINERAL RESOURCES MAP  
LEGEND

- Skanun Formation
- Masset Formation
- Plutons
- Kunga grey limestone member
- Iron
- Copper
- Iron-Copper
- Gold
- Size
- Large deposit
- Moderate sized
- Showing
- 25 Slate
- 26 Perlite
- 29 Bentonite
- 30 Diatomaceous earth
- Coal and lignite
- △ Placer

To accompany Bulletin 54, B.C. Department of Mines and Petroleum Resources, 1968.



FIGURE 1. PROPERTY LOCATION MAP

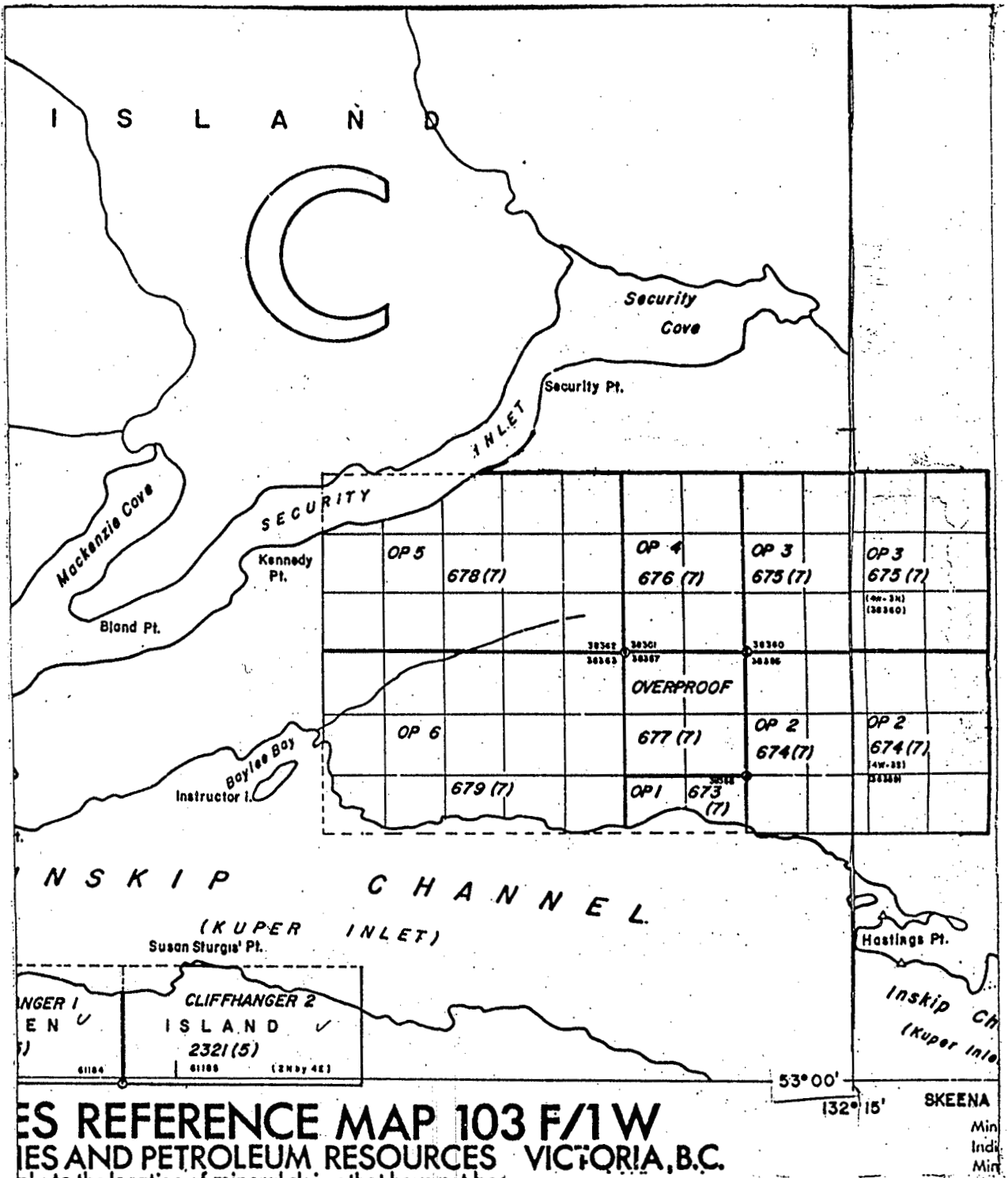


FIGURE 2. CLAIM MAP

## GEOLOGY

## a) General

The general stratigraphy of the property is as follows:

<u>Age</u>	<u>Formation</u>	<u>Lithologies</u>
Tertiary	Masset Fm.	Rhyolite flows, fragmentals and dykes, intrusive gabbros, dacite porphyry plug and dykes, and feldspar porphyry dykes.
U. Cretaceous	Queen Charlotte Group	Fine grained carbonaceous silt-stones.
Jurassic	Yakoun Fm.	Andesite tuffs and volcanic sandstones.
	Kunga Fm.	Massive grey and finely bedded black limestones and black thinly bedded argillite.
Triassic	Karmutsen Fm.	Submarine massive and pillowed basalts and amygdaloidal subaerial basalts, and interflow sedimentary rocks.

The Security property is underlain primarily by basalts of the Triassic Karmutsen Formation.

The lower part of the succession is made up of massive and amygdaloidal flows that range in colour from green to hematitic maroon and purple. Vesicles have been infilled with calcite, chlorite and quartz.

The higher topographic and stratigraphic levels along the ridge tops and plateau are underlain by dark green pillowed and massive basalts with occasional tuff horizons. Pillows are well developed in some areas with rims of quartz and epidote and interpillow dallosite breccia.

Several parts of the property are underlain by limestones,



argillites and to a lesser extent by cherts. Some of these, particularly the argillites and cherts on the slope at the south east end of the B Zone, are almost certainly interflow sediments, while others, such as the limestones along the Inskip Channel shore, are quite likely down dropped blocks of Kunga limestone.

Fine grained andesite crystal tuffs occur in parts of area B at lower elevations. These may represent Jurassic age rocks of the Yakoun Formation. Andesite tuffs and sandstones of the Yakoun Formation were also found in Hastings Creek.

The Tertiary Masset Formation is represented by both intrusive and extrusive rocks. A large area of the B Zone is underlain by rhyolite and gabbro, while much of the C Zone is underlain by a plug of porphyritic dacite. In addition, numerous dykes of basalt, feldspar porphyry and dacite porphyry occur on the property.

**b) Geology, A-Zone (South). (see attached maps)**

The steep slope in the southern half of the A-Zone is underlain mainly by Karmutsen Formation ocean floor basalts with interbedded limy argillites and argillaceous limestones occurring at lower elevations. Detailed mapping and sampling of this area in the past field season indicated the presence of several large quartz-carbonate breccia systems. Four of these systems contain strongly anomalous gold values in both the soil and rock samples that were taken. Lower down on the slope the overburden gets much thicker and makes it difficult to trace the mineralized zones. The size of the veins range from a width of 1 to 15

metres with most averaging about 5 metres. In the NE section of the mapped area the veins are traceable in outcrop for just over 100 metres but soil anomalies indicate that they extend downslope for some distance. Upslope the terrain turns into steep cliffs which make it extremely difficult for groundwork.

The vein alteration consists of fault controlled quartz breccia veins with up to 20% fine grained fracture and disseminated pyrite occurring throughout the matrix and rock fragments. Carbonate alteration occurs in varying amounts with the quartz. The breccia fragments are strongly bleached and chloritized Karmutsen basalts. Visible arsenopyrite was identified in several samples that were strongly anomalous for gold. Two of the quartz breccia veins in this area contain up to 25% chalcedony with stronger carbonate alteration. Gold values were much lower in these areas indicating that vertical zoning of the mineralization occurs. Dense stockwork veining occurs next to the quartz breccia and a large halo of bleaching and chloritization marks the location of silicified zones in the host rocks.

**c) Geology, B-Zone (see attached map)**

The geology of the B-Zone is more complex than elsewhere on the property. The terrain is a flat bench with extensive outcrops of rhyolite extrusive and gabbroic intrusive rocks probably of the Masset Formation. The gabbro which occurs at the NE and SW ends of the zone appears to be a sill overlying the rhyolite. Former work indicates that a much larger body of

gabbro further to the NE is an intrusive plug which was apparently the source of the sill. Further down on the slopes below the Masset rhyolites and gabbros are andesite crystal tuffs that may be Jurassic age Yakoun Formation rock. A prominent NNE trending fault controlled quartz breccia vein cuts through all the rock types in the area indicating that it is one of the youngest features. It has an average width of about 7 metres and a traceable strike length of over 900 metres. This vein is anomalous for gold throughout its length with values as high as 2050 ppb gold. A second smaller vein trending NE was found just NW of the main vein.

The mineralogy of the quartz breccia veins are the same as on the A-Zone only chalcedony is much more common on the B-Zone and there is a greater carbonate content to the veins. Calcite and chalcedony form at lower temperatures (around 210 ° C.) and indicate higher levels of a hydrothermal system normally above the main gold bearing zone. The vein is open ended to the north where it is terminated by steep cliffs along the shores of Security Inlet.

The rhyolites on the B-Zone are heavily fractured and contain more than 5% fracture controlled and disseminated pyrite. A large gold anomaly with values greater than 100 ppb occurs within the rhyolites in the southwestern part of the area. Strong leaching and widespread silicification are associated with the anomaly.

*Soil samples from oxidized  
B horizon about 15cm depth  
in shallow overburden.  
Composite rock chip  
samples were taken from  
altered and/or mineralized  
rocks.*

In the latest work phase a total of 154 rock samples and 330 soil samples were collected. 445 samples were analyzed for gold by Chemex Labs Ltd. using the neutron activation analysis method.

Regional work in the Queen Charlottes has established a solid background value for gold in soil, rock or silts of less than 5 ppb. Values of 15 ppb and greater are considered anomalous and may be important.

a) A-Zone

In the area sampled on the steep south facing slope of the A-Zone 53 rock samples and 290 soil samples were analyzed for gold. Rock samples returned values of up to 3980 ppb gold (D-128) with 30% of the samples having values greater than 100 ppb gold which is considered highly anomalous. Most of these samples (greater than 100 ppb) came from four silicified quartz breccia vein systems. Three of these systems are located in the northeastern part of the mapped area with the other occurring further downslope and to the west.

Soil sample gold values are generally lower with 12 samples (4%) returning values greater than 100 ppb. One sample, however, had greater than 10,000 ppb gold (Z-88) and was located on a quartz vein system in the northeastern part of the zone that returned the highest gold values in the rock. The soils taken during this program and past soil sampling programs in this area indicate that the gold bearing quartz vein systems extend further



downslope. Several spot gold highs occurred on the lower elevations where silicified limy argillites and argillaceous limestones are known to occur. It is uncertain however, exactly what is causing the lower anomaly as the overburden is much thicker.

b) B-Zone

A total of 101 rock samples and one soil sample were taken from the bench located just SE of Kennedy Point on Security Inlet (B-Zone). Rock exposure is very good in this area making it possible to get a representative rock sample at most localities. Rock samples returned values as high as 4540 ppb gold (D-23) with 30 samples (30%) being greater than 100 ppb. Most of the higher gold values come from the main quartz breccia vein system with higher values occurring in the mineralized hanging wall rock just adjacent to the vein. The anomaly spreads out in the SW half of the zone and is associated with silicified, sulfide-bearing rhyolites that occur on the bench.

**SUMMARY**

The more detailed mapping and sampling program carried out on the southern part of the A-Zone and on the B-Zone bench of the Security Property indicated several areas of highly anomalous gold.

On the steep south facing slope of the A-Zone, four silicified vein systems were highly anomalous for gold and require further work.

The following samples came from the four zones:

i)	D128 -	3980 ppb Au	ii)	D136 -	380 ppb
	D129 -	422 ppb Au		D137 -	384 ppb
	Z88 -	+ 10,000 ppb Au		D138 -	649 ppb
				D144 -	650 ppb
iii)	D86 -	133	iv)	D113 -	2370
	D248 -	102		D111 -	557
	D249 -	233		79-C-985 -	1265
	D250 -	119		79-C-992 -	1555
	D252 -	166		79-R-423 -	1855

It is recommended that hand trenching be done accompanied by more detailed 1:500 scale mapping of these four areas to establish targets for drilling. Further downslope where the overburden is thicker and one sample from 1979 (H-1170) indicated 1.3 oz/ton Au in silicified limy sediments more detailed geological mapping and sampling should be done. Due to the presence of pyrite in the alteration assemblage, an IP survey may be helpful in identifying targets below the overburden.

In Zone-B the presence of much younger rocks and the greater chalcedony and carbonate content of the quartz veins suggests a higher level in the vein system. The drill program done in 1982 did not adequately test the vein system at depth.

The northeast end of the vein is open ended at a cliff that drops to the shore. An attempt to map and sample the cliffs and slope in this area should be done to test for vertical zoning of gold grades. The large gold anomaly on the rhyolite bench in the southwest half of Zone B may be a widespread alteration halo for more concentrated gold at depth. In this area an IP, and a VLF geophysical survey is recommended to delineate the structures.

Following this work, an evaluation of the data by an independent engineer should be done to set up a drill program, if warranted.

Respectfully submitted,

D.R. Bennett, B.Sc.

J.S. Christie, Ph.D.

*D.R. Bennett (signing for both parties)*

## DETAILED COST STATEMENT

## OVERPROOF - OP CLAIMS - 1987 PROGRAM

TIME CHARGES (see attached sheet for details)

David Bennett - Geologist	\$ 6,625.00
Mark Hagemoen - Geological Assistant	4,550.00
Klaus Bever - Geologist	1,250.00
J.S. Christie - Geologist	750.00

DISBURSEMENTS

Equipment Rented From Gimlex Enterprises Ltd.	
Camp Equipment - Chainsaw etc. 3 weeks @ \$125.00	375.00
SBX 11 Radio telephone - antenna 3 weeks @ \$50.00	150.00
Chev 4x4 3/4 ton pick up - 5 days @ \$40.00/day	200.00
- 1700 km @ \$.13	221.00
Airplanes - 2 Vanc.-Sandspit-Vanc. Canadian Airlines	769.20
- Sandspit-Vanc.	192.30
Expenses - D. Bennett & M. Hagemoen	691.80
C & C Wholesale, Costco Wholesale, Irly Bird,	
Canadian Tire - Miscellaneous Camp Supplies	589.32
Neville Crosby - Invoice #51945	560.01
Cansel Survey Equipment - Invoice #7873	499.05
Queen Charlotte Helicopters	4,238.97
Sandspit Hotel	320.06
Sandspit SuperValu	1,054.13
Chemex Labs Ltd. - Invoice #871661, 8716612, 8722221	4,273.74
Vancal Reproductions - Invoice #115004, 115124	267.55
Drafting, Typing, Report Duplication - Estimate	700.00
	-----
TOTAL	\$ 28,277.13

## OVERPROOF - OP CLAIMS - 1987 PROGRAM

## DETAILED TIME CHARGES

David Bennett - Geologist

June 1 - 18 :	17.5 days	
June 7 - 9 :	3 days	
Oct. 19 - 24 :	6 days	
	-----	
Total	26.5 days @ \$250.00/day	\$ 6,625.00

Mark Hagemon - Geological Assistant

May 12 & 15 :	2 days	
May 27 - June 18 :	21.5 days	
July 7 - 9 :	2.5 days	
	-----	
Total	26 days @ \$175.00/day	4,550.00

Klaus Bever - Geologist

June 1 - 4 :	4 days	
Sept. 20 :	1 day	
	-----	
Total	5 days @ \$250.00/day	1,250.00

J.S. Christie - Geologist

May 21, 22, 25 :	2 days	
Oct. 24 :	.5 day	
	-----	
Total	2.5 days @ \$300.00/day	750.00
		-----
		\$ 13,175.00

## CERTIFICATE OF QUALIFICATION

I, David R. Bennett of Vancouver, British Columbia do hereby certify that,

1. I am a Professional Geologist residing at Suite 303, 8655 Oak Street, Vancouver, B.C. V6P 4B2.
2. I am a graduate of the University of British Columbia B.Sc. Geology - 1983.
3. I have practiced my profession as a mining exploration geologist since 1983.
4. This report is based on my personal knowledge of the district, and mapping of the geology at the Property.

*David R. Bennett*  
David R. Bennett, B.Sc.

CERTIFICATE OF QUALIFICATIONS

18

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.

**BIBLIOGRAPHY**

- 1) Arscott, D., and McAllister, S. Report dated October 28, 1981; Geological and Geochemical Program, Overproof, OP 1 to 11 Mineral Claims, Security Inlet, B.C.
- 2) Buchanan, Larry J., 1981. Precious Metal Deposits Associated With Volcanic Environments in the Southwest; Arizona Geological Society Digest, V.14.
- 3) Christie, J.S. and Richards, G.G. Assessment Report dated August 15, 1979; Overproof and OP Mineral Claims. Report on Geology, Geochemistry, and Economic Potential.
- 4) Christie, J.S., Richards, G.G., and Harivel, C. Report on the Geology, Geochemistry and Potential of Three Areas of the Overproof and Op #1 - 11 Mineral Claims, dated December 15, 1979.
- 5) Richards, G.G.. Report on the Security Gold Prospect, Moresby Island, Queen Charlotte Islands, Mineral Claims: Overproof, OP #1 - #6; dated February 6, 1987.
- 6) Sandberg, T., and McAllister, S.. Report dated December 30, 1982; Geological, Geochemical and Diamond Drill Program, Overproof, OP 1 to 11 Mineral Claims, Security Inlet, B.C.
- 7) Sutherland-Brown, A. 1968. Geology of the Queen Charlotte Islands, British Columbia Department of Mines, Bulletin No. 54.
- 8) Walton, G. Dick, L., and Arscott, D.. Report dated September 15, 1980; Geological and Geochemical Program, Overproof, OP 1 to 5, 8 to 11 Mineral Claims, Security Inlet, B.C.



APPENDIX

GEOCHEM RESULTS



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,  
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: ENGLEFIELD RESOURCES LTD.

1101 - 736 GRANVILLE ST.  
VANCOUVER, BC  
V6Z 1G3

Project: OVERPROOF

Comments: CC: DAVE BENNET

\*Page No. :1  
Tot. Pages:4  
Date :14-JUL-87  
Invoice #:I-8716611  
P.O. #:NONE

## CERTIFICATE OF ANALYSIS A8716611

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb										
87-Z-A	205 ---	123										
87-Z-01	205 ---	4										
87-Z-02	205 ---	15										
87-Z-03	205 ---	59										
87-Z-04	205 ---	1705										
87-Z-05	205 ---	302										
87-Z-06	205 ---	117										
87-Z-07	205 ---	36										
87-Z-08	205 ---	7										
87-Z-09	205 ---	53										
87-Z-10	205 ---	56										
87-Z-11	205 ---	< 1										
87-Z-12	205 ---	4										
87-Z-13	205 ---	< 1										
87-Z-14	205 ---	4										
87-Z-15	205 ---	177										
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87-Z-17	205 ---	5										
87-Z-18	205 ---	6										
87-Z-19	205 ---	7										
87-Z-20	205 ---	23										
87-Z-22	205 ---	3										
87-Z-23	205 ---	4										
87-Z-32	205 ---	< 1										
87-Z-39	205 ---	31										
87-Z-75	205 ---	9										
87-Z-141	205 ---	2050										
87-Z-169	205 ---	189										
87-D-01	205 ---	9										
87-D-02	205 ---	42										
87-D-03	205 ---	3										
87-D-04	205 ---	497										
87-D-05	205 ---	2050										
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87-D-07	205 ---	59										
87-D-08	205 ---	159										
87-D-09	205 ---	96										
87-D-10	205 ---	11										
87-D-11	205 ---	15										
87-D-12	205 ---	8										

*Hart Bickler*

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\*Page No. : 2  
Tot. Pages: 4  
Date : 14-JUL-87  
Invoice #: I-8716611  
P.O. # : NONE

## CERTIFICATE OF ANALYSIS A8716611

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb																	
87-D-13	205	---	9																
87-D-14	205	---	10																
87-D-15	205	---	30																
87-D-16	205	---	878																
87-D-17	205	---	110																
87-D-18	205	---	18																
87-D-19	205	---	38																
87-D-20	205	---	72																
87-D-21	205	---	897																
87-D-22	205	---	371																
87-D-23	205	---	4540																
87-D-24	205	---	572																
87-D-25	205	---	37																
87-D-26	205	---	97																
87-D-27	205	---	86																
87-D-28	205	---	25																
87-D-29	205	---	27																
87-D-30	205	---	3																
87-D-31	205	---	1																
87-D-32	205	---	4																
87-D-33	205	---	5																
87-D-34	205	---	13																
87-D-35	205	---	127																
87-D-38	205	---	61																
87-D-39	205	---	160																
87-D-40	205	---	34																
87-D-41	205	---	142																
87-D-42	205	---	2																
87-D-43	205	---	18																
87-D-44	205	---	71																
87-D-45	205	---	4																
87-D-46	205	---	4																
87-D-47	205	---	18																
87-D-48	205	---	216																
87-D-49	205	---	1550																
87-D-50	205	---	208																
87-D-51	205	---	49																
87-D-52	205	---	269																
87-D-53	205	---	44																
87-D-54	205	---	114																

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## CERTIFICATE OF ANALYSIS A8716611

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb										
87-D-55	205	---	1									
87-D-56	205	---	108									
87-D-57	205	---	< 1									
87-D-58	205	---	44									
87-D-59	205	---	194									
87-D-60	205	---	78									
87-D-61	205	---	950									
87-D-62	205	---	3									
87-D-63	205	---	10									
87-D-64	205	---	24									
87-D-65	205	---	27									
87-D-66	205	---	43									
87-D-67	205	---	101									
87-D-68	205	---	12									
87-D-69	205	---	2									
87-D-70	205	---	25									
87-D-71	205	---	46									
87-D-73	205	---	24									
87-D-74	205	---	109									
87-D-75	205	---	188									
87-D-76	205	---	17									
87-D-77	205	---	9									
87-D-78	205	---	129									
87-D-79	205	---	420									
87-D-80	205	---	49									
87-D-81	205	---	135									
87-D-82	205	---	< 1									
87-D-83	205	---	34									
87-D-84	205	---	3									
87-D-85	205	---	15									
87-D-86	205	---	133									
87-D-87	205	---	8									
87-D-88	205	---	5									
87-D-89	205	---	6									
87-D-90	205	---	3									
87-D-91	205	---	< 1									
87-D-93	205	---	< 1									
87-D-94	205	---	5									
87-D-98	205	---	< 1									
87-D-100	205	---	7									

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Invoice #: I-8716611  
P.O. #: NONE

## CERTIFICATE OF ANALYSIS A8716611

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb										
87-D-103	205	---	152									
87-D-108	205	---	94									
87-D-111	205	---	557									
87-D-113	205	---	2370									
87-D-125	205	---	30									
87-D-127	205	---	49									
87-D-128	205	---	3980									
87-D-129	205	---	422									
87-D-130	205	---	13									
87-D-136	205	---	380									
87-D-137	205	---	384									
87-D-138	205	---	649									
87-D-144	205	---	650									
87-D-152	205	---	19									
87-D-153	205	---	2									
87-D-169	205	---	15									
87-D-170	205	---	7									
87-D-171	205	---	37									
87-D-172	205	---	15									
87-D-183	205	---	17									
87-D-190	205	---	< 1									
87-D-191	205	---	< 1									
87-D-198	205	---	19									
87-D-221	205	---	4									
87-D-222	205	---	< 1									
87-D-223	205	---	4									
87-D-228	205	---	28									
87-D-229	205	---	5									
87-D-246	205	---	28									
87-D-250	205	---	119									
87-D-251	205	---	62									
87-D-252	205	---	166									
87-D-254	205	---	2									
BP-9	205	---	253									

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Project: OVERPROOF  
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Date : 24-JUN-87  
Invoice #: I-8716612  
P.O. #: NONE

## CERTIFICATE OF ANALYSIS A8716612

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb									
87-Z-21	201	---	23								
87-Z-24	201	---	5								
87-Z-25	201	---	5								
87-Z-26	201	---	-----								
87-Z-27	201	---	-----								
87-Z-28	201	---	-----								
87-Z-29	201	---	8								
87-Z-30	201	---	-----								
87-Z-31	201	---	-----								
87-Z-33	201	---	3								
87-Z-34	201	---	27								
87-Z-35	201	---	-----								
87-Z-36	201	---	-----								
87-Z-37	201	---	-----								
87-Z-38	201	---	-----								
87-Z-40	201	---	8								
87-Z-41	201	---	5								
87-Z-42	201	---	4								
87-Z-43	201	---	8								
87-Z-44	201	---	4								
87-Z-45	201	---	8								
87-Z-46	201	---	10								
87-Z-47	201	---	17								
87-Z-48	217	---	15								
87-Z-49	201	---	14								
87-Z-50	201	---	11								
87-Z-51	201	---	16								
87-Z-52	201	---	18								
87-Z-53	201	---	87								
87-Z-54	201	---	8								
87-Z-55	201	---	13								
87-Z-56	201	---	8								
87-Z-57	201	---	14								
87-Z-58	201	---	9								
87-Z-59	201	---	7								
87-Z-60	201	---	6								
87-Z-61	201	---	7								
87-Z-62	201	---	9								
87-Z-63	201	---	7								
87-Z-64	201	---	14								

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## CERTIFICATE OF ANALYSIS A8716612

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb											
87-Z-65	201	---	11										
87-Z-66	201	---	6										
87-Z-67	201	---	2										
87-Z-68	201	---	6										
87-Z-69	201	---	4										
87-Z-70	201	---	223										
87-Z-71	201	---	11										
87-Z-72	201	---	20										
87-Z-73	201	---	33										
87-Z-74	201	---	130										
87-Z-76	201	---	11										
87-Z-77	201	---	6										
87-Z-78	201	---	10										
87-Z-79	201	---	66										
87-Z-80	201	---	5										
87-Z-81	217	---	67										
87-Z-82	201	---	4										
87-Z-83	201	---	8										
87-Z-84	201	---	5										
87-Z-85	201	---	2										
87-Z-86	201	---	2										
87-Z-87	201	---	4										
87-Z-88	201	---	>10000										
87-Z-89	201	---	74										
87-Z-90	201	---	17										
87-Z-91	201	---	8										
87-Z-92	201	---	60										
87-Z-93	201	---	6										
87-Z-94	201	---	6										
87-Z-95	201	---	22										
87-Z-96	201	---	3										
87-Z-97	201	---	6										
87-Z-98	201	---	4										
87-Z-99	201	---	6										
87-Z-100	201	---	4										
87-Z-101	201	---	9										
87-Z-102	201	---	3										
87-Z-103	201	---	3										
87-Z-104	201	---	2										
87-Z-105	201	---	5										

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Date : 24-JUN-87  
Invoice # : I-8716612  
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## CERTIFICATE OF ANALYSIS A8716612

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb									
87-Z-106	201	---	22									
87-Z-107	201	---	19									
87-Z-108	201	---	24									
87-Z-109	201	---	28									
87-Z-110	201	---	16									
87-Z-111	201	---	7									
87-Z-112	201	---	7									
87-Z-113	201	---	50									
87-Z-114	201	---	< 1									
87-Z-115	201	---	24									
87-Z-116	201	---	5									
87-Z-117	201	---	7									
87-Z-118	201	---	14									
87-Z-119	201	---	8									
87-Z-120	201	---	7									
87-Z-121	201	---	38									
87-Z-122	201	---	10									
87-Z-123	201	---	14									
87-Z-124	201	---	8									
87-Z-125	201	---	6									
87-Z-126	201	---	5									
87-Z-127	201	---	4									
87-Z-128	201	---	21									
87-Z-129	201	---	26									
87-Z-130	201	---	11									
87-Z-131	201	---	19									
87-Z-132	201	---	31									
87-Z-133	201	---	9									
87-Z-134	201	---	12									
87-Z-135	201	---	12									
87-Z-136	201	---	8									
87-Z-137	201	---	7									
87-Z-138	201	---	10									
87-Z-139	201	---	25									
87-Z-140	201	---	81									
87-Z-142	201	---	159									
87-Z-143	201	---	8									
87-Z-144	201	---	268									
87-Z-145	201	---	5									
87-Z-146	201	---	7									

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## CERTIFICATE OF ANALYSIS A8716612

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb										
87-Z-147	201	--	3									
87-Z-148	201	--	190									
87-Z-149	201	--	5									
87-Z-150	201	--	3									
87-Z-151	201	--	7									
87-Z-152	201	--	26									
87-Z-153	201	--	9									
87-Z-154	201	--	2									
87-Z-155	201	--	6									
87-Z-156	201	--	11									
87-Z-157	201	--	3									
87-Z-158	201	--	2									
87-Z-159	201	--	6									
87-Z-160	201	--	11									
87-Z-161	201	--	10									
87-Z-162	201	--	7									
87-Z-163	201	--	6									
87-Z-164	201	--	6									
87-Z-165	201	--	10									
87-Z-166	201	--	9									
87-Z-167	201	--	13									
87-Z-168	201	--	20									
87-Z-170	201	--	13									
87-Z-171	201	--	4									
87-Z-172	201	--	5									
87-Z-173	201	--	7									
87-Z-174	201	--	4									
87-Z-175	201	--	4									
87-Z-176	201	--	26									
87-Z-177	201	--	5									
87-Z-178	201	--	10									
87-Z-179	201	--	59									
87-Z-180	201	--	23									
87-Z-181	201	--	23									
87-Z-182	201	--	6									
87-Z-183	201	--	46									
87-Z-184	201	--	12									
87-Z-185	201	--	50									
87-Z-186	201	--	18									
87-Z-187	201	--	6									

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## CERTIFICATE OF ANALYSIS A8716612

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb										
87-Z-188	201	---	1									
87-Z-189	201	---	4									
87-Z-190	201	---	40									
87-Z-191	201	---	15									
87-Z-192	201	---	4									
87-Z-193	201	---	16									
87-Z-194	201	---	4									
87-Z-195	201	---	21									
87-Z-196	201	---	19									
87-Z-197	201	---	13									
87-Z-198	201	---	4									
87-Z-199	201	---	-----									
87-Z-200	201	---	-----									
87-Z-201	201	---	-----									
87-Z-202	201	---	-----									
87-Z-203	201	---	-----									
87-Z-204	201	---	-----									
87-Z-205	201	---	-----									
87-Z-206	201	---	-----									
87-Z-207	201	---	-----									
87-Z-208	201	---	-----									
87-Z-209	201	---	37									
87-Z-210	201	---	47									
87-Z-211	201	---	78									
87-Z-212	201	---	72									
87-Z-213	201	---	8									
87-Z-214	201	---	104									
87-Z-215	203	---	30									
87-Z-216	203	---	22									
87-Z-217	201	---	25									
87-Z-218	201	---	32									
87-Z-219	201	---	9									
87-Z-220	203	---	5									
87-Z-221	201	---	6									
87-Z-222	201	---	5									
87-Z-223	201	---	8									
87-Z-224	201	---	15									
87-Z-225	203	---	6									
87-Z-226	201	---	10									
87-Z-227	201	---	12									

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Invoice #:I-8716612  
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## CERTIFICATE OF ANALYSIS A8716612

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb											
87-Z-228	201 ---	29											
87-Z-229	201 ---	17											
87-Z-230	201 ---	17											
87-D-72	201 ---	51											
87-D-92	201 ---	10											
87-D-95	201 ---	-----											
87-D-96	201 ---	-----											
87-D-97	201 ---	-----											
87-D-99	201 ---	-----											
87-D-101	201 ---	-----											
87-D-102	201 ---	7											
87-D-104	201 ---	7											
87-D-105	201 ---	15											
87-D-106	201 ---	6											
87-D-107	201 ---	3											
87-D-109	201 ---	5											
87-D-110	201 ---	4											
87-D-112	201 ---	29											
87-D-114	201 ---	3											
87-D-115	201 ---	3											
87-D-116	201 ---	6											
87-D-117	201 ---	5											
87-D-118	201 ---	22											
87-D-119	201 ---	7											
87-D-120	201 ---	11											
87-D-121	201 ---	10											
87-D-122	201 ---	4											
87-D-123	201 ---	6											
87-D-124	201 ---	7											
87-D-126	201 ---	75											
87-D-131	201 ---	3											
87-D-132	201 ---	72											
87-D-133	201 ---	13											
87-D-134	201 ---	7											
87-D-135	201 ---	35											
87-D-139	201 ---	68											
87-D-140	201 ---	14											
87-D-141	201 ---	3											
87-D-142	201 ---	15											
87-D-143	201 ---	42											

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## CERTIFICATE OF ANALYSIS A8716612

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb										
87-D-145	201	---	84									
87-D-146	201	---	12									
87-D-147	201	---	18									
87-D-148	201	---	59									
87-D-149	201	---	10									
87-D-150	201	---	17									
87-D-151	201	---	2									
87-D-154	201	---	29									
87-D-155	201	---	7									
87-D-156	201	---	3									
87-D-157	201	---	30									
87-D-158	201	---	13									
87-D-159	201	---	9									
87-D-160	201	---	34									
87-D-161	201	---	33									
87-D-162	201	---	14									
87-D-163	201	---	8									
87-D-164	201	---	11									
87-D-165	201	---	10									
87-D-166	201	---	4									
87-D-167	201	---	6									
87-D-168	217	---	7									
87-D-173	201	---	15									
87-D-174	201	---	6									
87-D-175	201	---	7									
87-D-176	201	---	6									
87-D-177	201	---	6									
87-D-178	201	---	19									
87-D-179	201	---	26									
87-D-180	201	---	6									
87-D-181	201	---	-----									
87-D-182	201	---	-----									
87-D-184	201	---	-----									
87-D-185	201	---	-----									
87-D-186	201	---	-----									
87-D-187	201	---	-----									
87-D-188	201	---	-----									
87-D-189	201	---	-----									
87-D-192	201	---	-----									
87-D-193	201	---	-----									

CERTIFICATION : Hart Buchler



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,  
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: ENGLEFIELD RESOURCES LTD.

1101 - 736 GRANVILLE ST.  
VANCOUVER, BC  
V6Z 1G3

Project: OVERPROOF

Comments: CC: DAVE BENNET

\*Page No. : 8

Tot. Pages: 9

Date : 24-JUN-87

Invoice # : I-8716612

P.O. # : NONE

## CERTIFICATE OF ANALYSIS A8716612

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb									
87-D-194	203	---	-----									
87-D-195	201	---	-----									
87-D-196	201	---	-----									
87-D-197	201	---	42									
87-D-199	201	---	15									
87-D-200	201	---	12									
87-D-201	203	---	11									
87-D-202	203	---	18									
87-D-203	201	---	6									
87-D-204	201	---	11									
87-D-205	203	---	2									
87-D-206	201	---	6									
87-D-207	201	---	5									
87-D-208	201	---	6									
87-D-209	201	---	2									
87-D-210	201	---	5									
87-D-211	201	---	5									
87-D-212	201	---	11									
87-D-213	201	---	44									
87-D-214	201	---	16									
87-D-215	201	---	9									
87-D-216	201	---	10									
87-D-217	201	---	36									
87-D-218	201	---	57									
87-D-219	203	---	109									
87-D-220	201	---	16									
87-D-224	201	---	42									
87-D-225	201	---	8									
87-D-226	201	---	12									
87-D-227	203	---	35									
87-D-230	201	---	29									
87-D-231	203	---	24									
87-D-232	201	---	14									
87-D-233	201	---	13									
87-D-234	201	---	-----									
87-D-235	203	---	-----									
87-D-236	201	---	-----									
87-D-237	201	---	-----									
87-D-238	217	---	7									
87-D-239	201	---	967									

CERTIFICATION :

*Hart B. Jler*



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\*Page No. : 9  
Tot. Pages: 9  
Date : 24-JUN-87  
Invoice # : I-8716612  
P.O. # : NONE

## CERTIFICATE OF ANALYSIS A8716612

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb									
87-D-240	201	---	6								
87-D-241	201	---	78								
87-D-242	201	---	39								
87-D-243	201	---	30								
87-D-244	201	---	64								
87-D-245	201	---	91								
87-D-247	201	---	98								
87-D-248	217	---	102								
87-D-249	201	---	233								
87-D-253	201	---	86								

CERTIFICATION :

*David R. Jhler*



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Comments: CC: DAVE BENNET

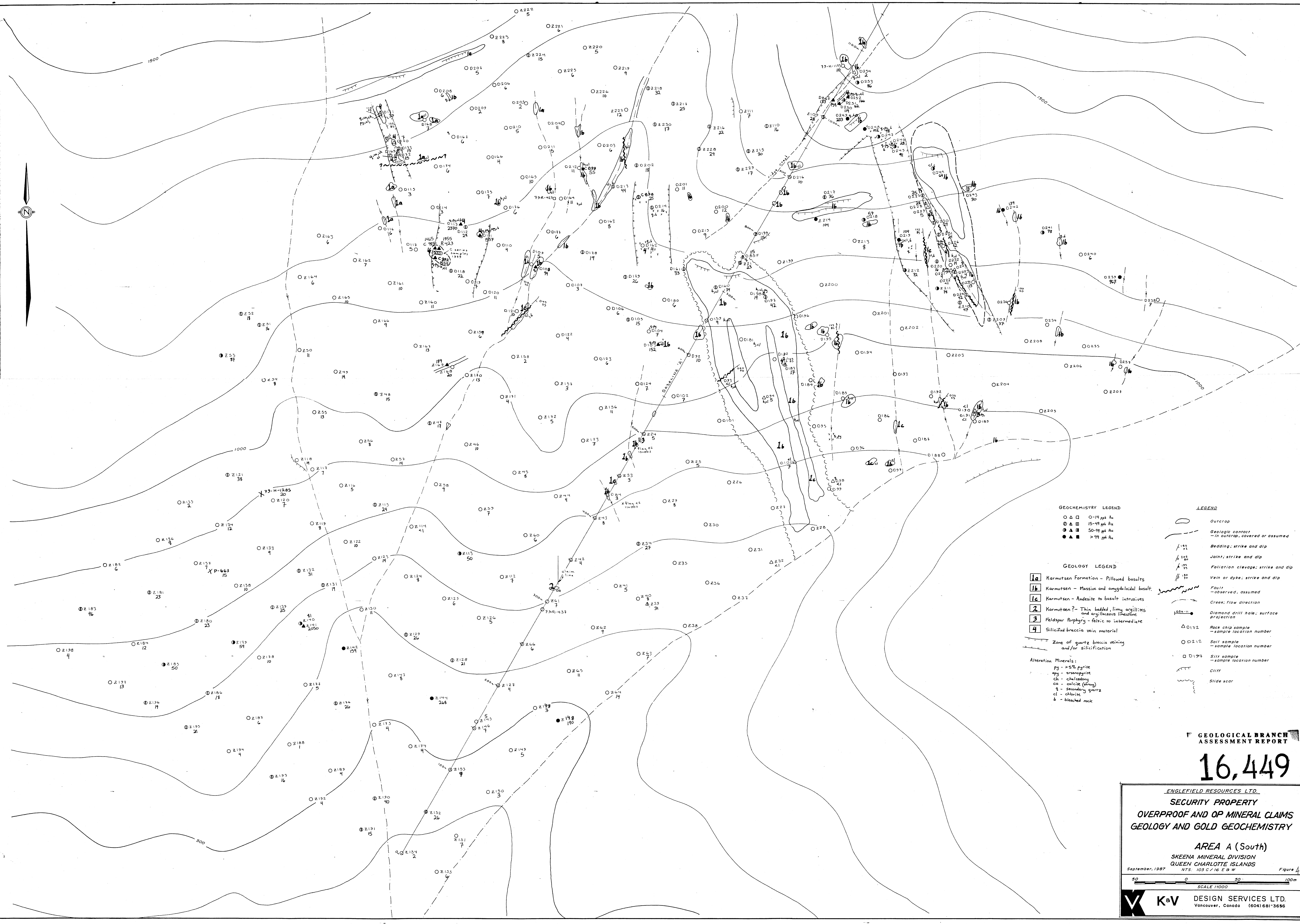
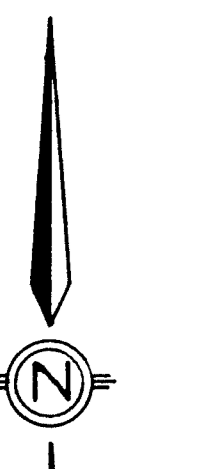
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Tot. Pages: 1  
Date : 17-SEP-87  
Invoice # : I-872221  
P.O. # :

## CERTIFICATE OF ANALYSIS A872221

SAMPLE DESCRIPTION	PREP CODE	Au FA oz/T									
87-Z-88	214	--	0.218								

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY B.C. CERTIFIED ASSAYERS

CERTIFICATION :



**GEOCHEMISTRY LEGEND**

- □ 0-14 ppb Au
- ⊕ ⊞ 15-49 ppb Au
- ⊙ ⊚ 50-99 ppb Au
- ⊛ > 99 ppb Au

**GEOLOGY LEGEND**

- 1a** Karmutsen Formation - Pillowed basalts
  - 1b** Karmutsen - Massive and amygdaloidal basalt
  - 1c** Karmutsen - Andesite to basalt intrusives
  - 2** Karmutsen? - Thin bedded, limy argillites and argillaceous limestone
  - 3** Feldspar Porphyry - felsic to intermediate
  - 4** Silicified breccia vein material
  - Zone of quartz breccia veining and/or silicification
- Alteration Minerals:
- py - > 5% pyrite
  - mp - magnetite
  - ch - chalcocite
  - ca - calcite (strong)
  - g - secondary quartz
  - cl - chlorite
  - b - bleached rock

**LEGEND**

- Outcrop
- in outcrop, covered or assumed
- Bedding, strike and dip
- Joint, strike and dip
- Foliation cleavage, strike and dip
- Vein or dyke, strike and dip
- Fault - observed, assumed
- Creek, flow direction
- Diamond drill hole, surface projection
- D112 Rock chip sample - sample location number
- D212 Soil sample - sample location number
- D194 Silt sample - sample location number
- Cliff
- Slide scar

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**16,449**

ENGLFIELD RESOURCES LTD.  
 SECURITY PROPERTY  
 OVERPROOF AND OP MINERAL CLAIMS  
 GEOLOGY AND GOLD GEOCHEMISTRY

AREA A (South)  
 SKEENA MINERAL DIVISION  
 QUEEN CHARLOTTE ISLANDS  
 September, 1987 HTS: 103 C / 16 E 8 W Figure 4

SCALE 1:1000

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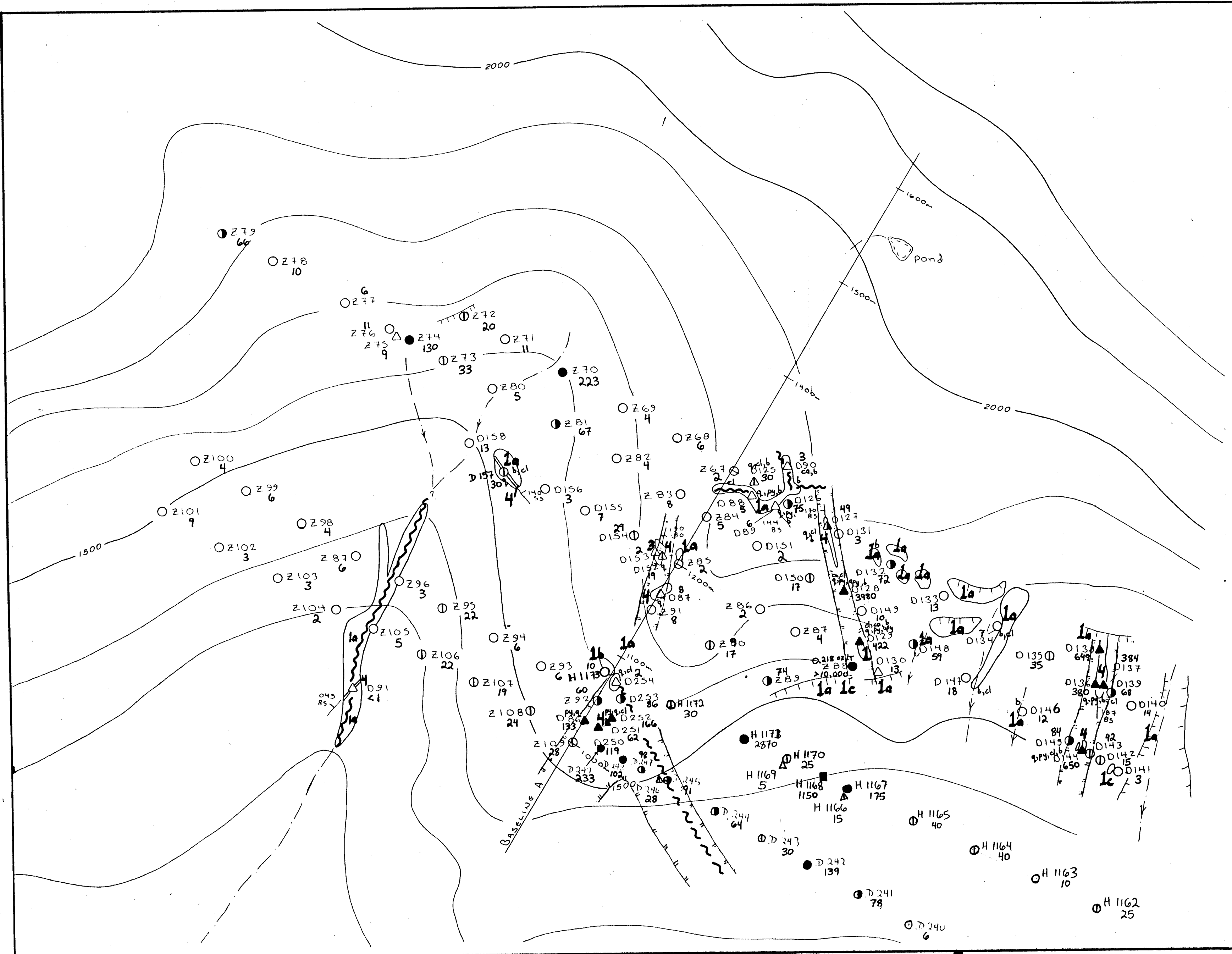
GEOCHEMISTRY LEGEND

- △ □ 0-14 ppb Au
- ⊙ ▲ ▣ 15-49 ppb Au
- ▲ ▣ 50-99 ppb Au
- ▲ ▣ > 99 ppb Au

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

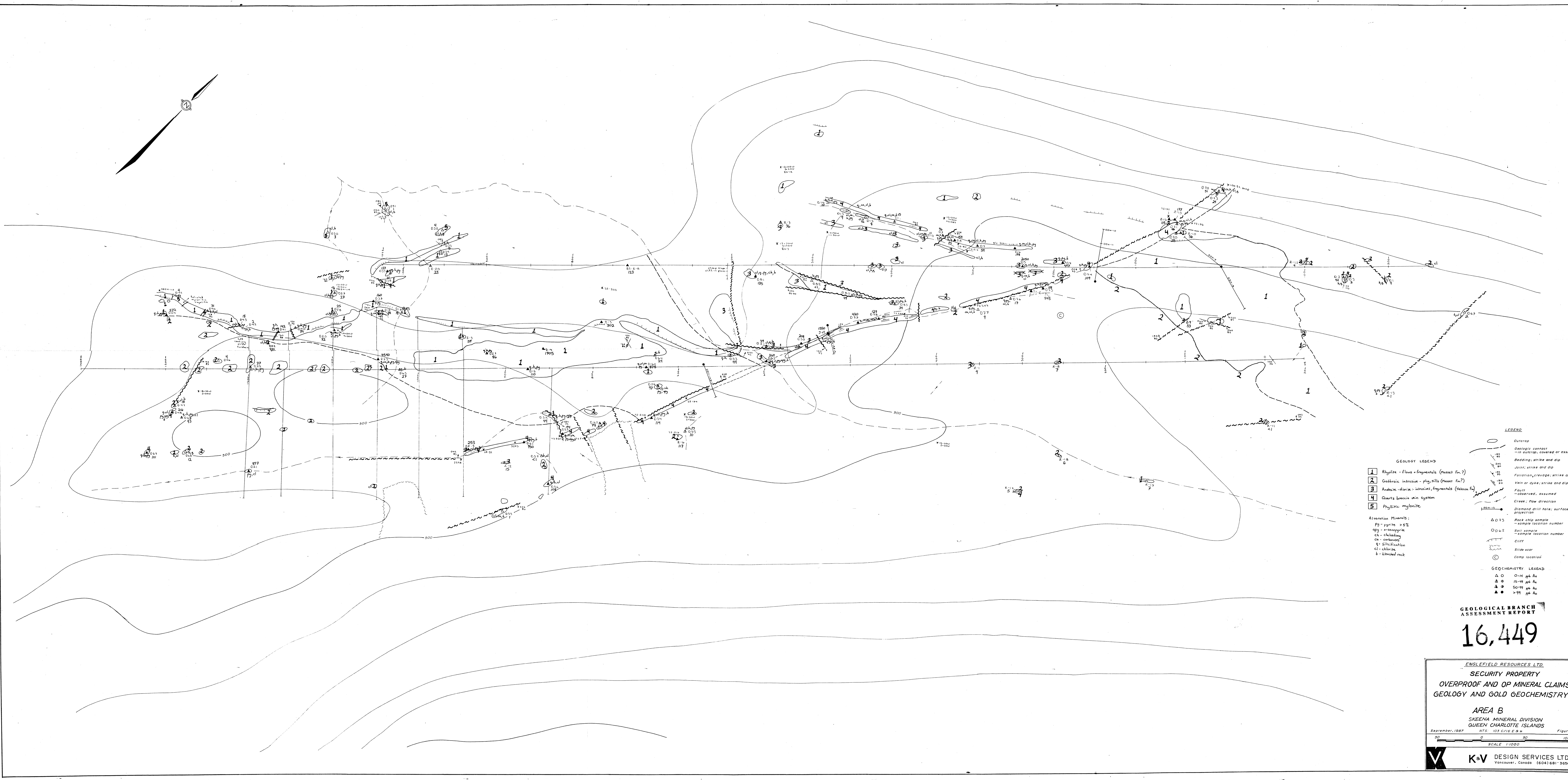
**16,449**  
LEGEND

- Outcrop
- Geologic — in outcrop, covered or assumed
- ⊥<sup>185</sup>/<sub>80</sub> Bedding; strike and dip
- ⊥<sup>205</sup>/<sub>80</sub> Joint; strike and dip
- ⊥<sup>135</sup>/<sub>95</sub> Foliation cleavage; strike and dip
- ⊥<sup>180</sup>/<sub>90</sub> Vein or dike; strike and dip
- ~ Fault — observed, assumed
- Creek; flow direction
- △ Rock chip sample — sample location number
- Soil sample — sample location number
- ▣ Cliff
- Silt sample — sample location number
- 1979 Sample Location Number
- H 1170 30 → Au ppb



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**AREA A (South)**  
**SKEENA MINERAL DIVISION**  
**QUEEN CHARLOTTE ISLANDS**  
 September, 1987 NT-135 C/16 E&W Figure 5  
 50 0 50 100 m  
 SCALE 1:2000  
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D 211  
967



- GEOLOGY LEGEND**
- 1 Rhyolite - flows - fragmentals (Russell Fm.)
  - 2 Gabbroic intrusive - phyl. sills (Russell Fm.)
  - 3 Andesite-diorite - intrusives, fragmentals (Yakoun Fm.)
  - 4 Quartz breccia vein system
  - 5 Palaeozoic mylonite
- Alteration Minerals:**
- py - pyrite >5%
  - pyg - pyrophyllite
  - ch - chlorite
  - ca - calcite
  - s - silicification
  - cl - chlorite
  - b - bleached rock
- LEGEND**
- Outcrop
  - Geologic contact - in outcrop, covered or assumed
  - Bedding, strike and dip
  - Joint, strike and dip
  - Foliation, cleavage, strike and dip
  - Vein or dyke, strike and dip
  - Fault - observed, assumed
  - Creek, flow direction
  - Diamond drill hole, surface projection
  - Rock chip sample - sample location number
  - Soil sample - sample location number
  - Chuff
  - Slide scar
  - Camp location
- GEOCHEMISTRY LEGEND**
- △ 0 0-10 ppb Au
  - △ 10 10-100 ppb Au
  - △ 100 100-1000 ppb Au
  - △ 1000 >1000 ppb Au

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

16,449

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GEOLOGY AND GOLD GEOCHEMISTRY

AREA B  
SKEENA MINERAL DIVISION  
QUEEN CHARLOTTE ISLANDS

September, 1987 NTS 103 C/16 E & W Figure 6

0 50 100  
SCALE 1:1000

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