

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE

TOO EASY CLAIM

RECORD NO. 1154(9)

92L/3W

ALBERNI MINING DIVISION

50°08'

127°18'

by

A. E. HEACY

J. C. STEPHEN

WORK DONE BY: J. C. STEPHEN EXPLORATIONS LTD.

FOR: FALCONBRIDGE LIMITED

DATE: JUNE 1984

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**12,681**

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<u>MAP</u>	<u>TITLE</u>	
I	GEOLOGY 1:1000	In Pocket of Report
II	ROCK GEOCHEMISTRY	In Pocket of Report
III	SOIL GEOCHEMISTRY Fe%, Mn ppm, As ppm, V ppm	In Pocket of Report
IV	SOIL GEOCHEMISTRY Au ppb, Hg ppb, F ppm, Tl ppm	In Pocket of Report
V	VLF-EM SURVEY	In Pocket of Report

### SUMMARY

- 1) A total of 3.75 km of line-cutting was carried out including 2.75 km on the TOO EASY claim.
- 2) Ninety soil samples and fifty-one rock geochem samples were collected and analysed for Au, Ag, As, Sb, Hg, F, Tl, Na, K.
- 3) A 1:1000 scale geological map of the claim was prepared.
- 4) An EM-16 survey was carried out on the claim and a contoured map prepared.
- 5) The TOO EASY claim covers an area of intense silica sericite/ clay ± pyrite altered volcanoclastic rocks. Alteration appears to be fault controlled and the fragmental appearance of many of the altered rocks indicates two periods of silicification separated by a period of brecciation.
- 6) Results of geochemical sampling provide only weak anomalies with only one significant gold value. Relatively high values for As, Mn, Fe, etc lie generally west of the most highly altered rock formations.

### INTRODUCTION

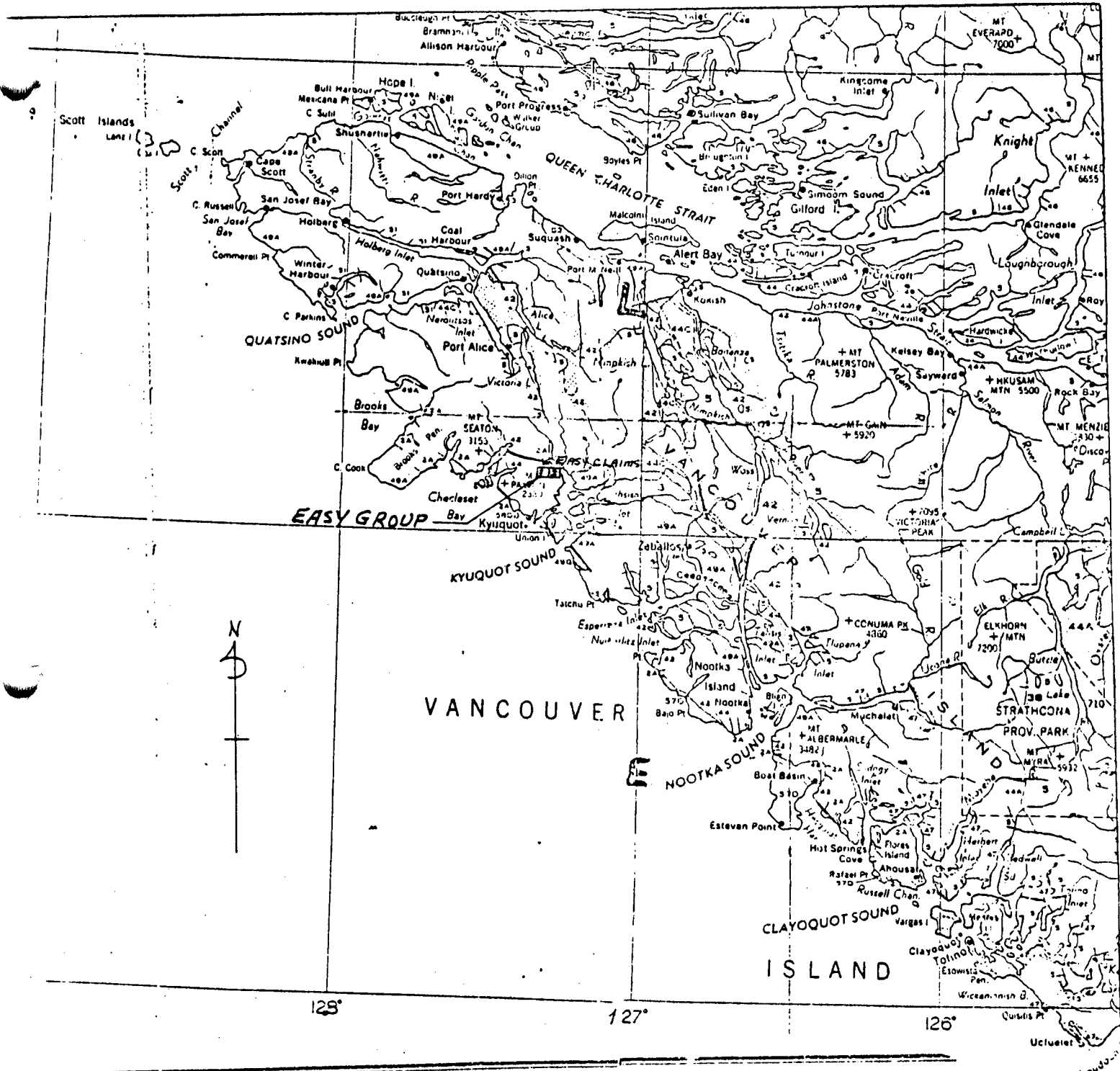
A program consisting of line-cutting, geochemical soil and rock sampling, a VLF-EM survey and geological mapping was carried out on the 1 - unit TOO EASY claim. The field work was done in June 1984 by personnel from J.C. Stephen Explorations Ltd. at the request of Falconbridge Limited.

The TOO EASY claim covers an area of pervasively altered rock. The purpose of the present program was to determine the geochemical zoning associated with this hydrothermal alteration and to evaluate the precious metal potential of the claim.

### LOCATION AND ACCESS

The TOO EASY claim is located on Kyuquot Sound on the northwest coast of Vancouver Island, as shown in Figure 1. Figure 2 shows the location of the claim on a peninsula between Easy Inlet and Monteith Bay.

Access to the claim was by boat from Fair Harbour, 16 km east of the claim.



J.C. STEPHEN EXPLORATIONS LTD.  
 FALCONBRIDGE NICKEL MINES LIMITED  
**EASY CLAIM GROUP**  
**INDEX MAP**  
 SCALE: 1" = 20mi.  
 1:1267,200  
 FIGURE I

TOPOGRAPHY & VEGETATION

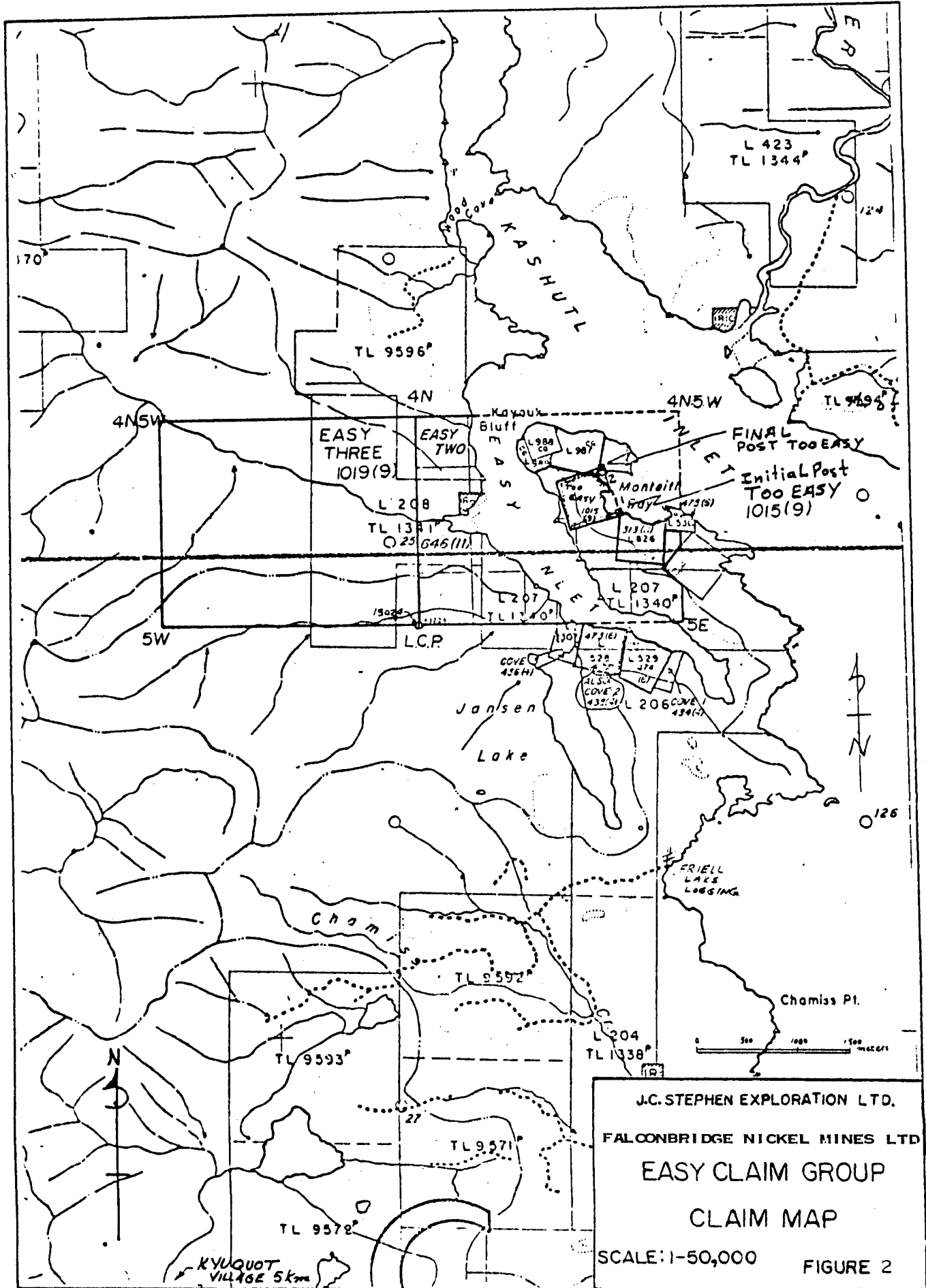
Although the total relief on the claim is some seventy metres the topography is quite steep with several small abrupt drops.

The area of the claim was logged off many years ago and has a fairly mature forest in the south area but dense second growth spruce and salal cover much of the northern claim area.

CLAIM RECORD

TOO EASY 1 unit Record Number:1154(9) Date of Staking: August 23/80  
Date of Recording: September 4/80

The claim was optioned by Falconbridge Limited in April 1983.



J.C. STEPHEN EXPLORATION LTD.  
 FALCONBRIDGE NICKEL MINES LTD  
 EASY CLAIM GROUP  
 CLAIM MAP  
 SCALE: 1-50,000      FIGURE 2



## FIELD PROCEDURE

### Line Cutting

A 1,050 metre baseline was established running 320° from the southern boundary of the TOO EASY claim to the tip of the peninsula some 500 metres north of the northern claim line. A transit was used to run the base line and to turn off perpendicular cross lines at 75 metre intervals. All lines were chained and picketed at 25 metre stations. Slope corrections were approximated.

The positions of the grid lines are indicated on the maps in the back pockets.

### Soil Sampling

Soil samples were collected at the 25 metre stations on the grid lines on the claim. A grubhoe was used to collect a Kraft bag sample of soil from the B horizon at depths of 5 to 25 cm.

At certain locations no sample was collected due to a thick surface organic layer or because of a lack of soil development on rock outcrop. Soil data sheets were completed and are included in this report as Appendix I.

### Rock Sampling

All significant rock outcrops were systematically sampled by collection of random rock chips from approximately twenty spots on each outcrop. A typical hand specimen of each outcrop was also collected.

Sample data sheets are included in Appendix I.

### Geochemical Analyses

All soil and rock chip samples were prepared and analysed by Vangeochem Lab Ltd., North Vancouver. Samples were analyzed for Au, F, Hg and a 28 element suite by ICP analyses. Thallium analyses were carried out by Chemex Labs Ltd., North Vancouver.

Details of sample preparation and analytical methods are provided in Appendix II.

### Geophysical Survey

A VLF-EM survey was carried out on the TOO EASY claim using a Geonics EM-16 instrument. Readings were taken using the Seattle Washington station. All readings were taken facing grid south (140°). Readings are plotted at the grid stations and values calculated using the Fraser filter are plotted between the appropriate station locations.

## GEOLOGY

The regional geology of the TOO EASY claim and the results of previous geological investigations are discussed in the 1980 assessment report on the area by J. Shearer (1980). The present work is in general agreement with previous reports.

The TOO EASY claim is underlain by volcanic rocks of the Lower Jurassic Bonanza Formation. In much of the eastern part of the claim intense alteration has obliterated all primary features of the rock. The distribution of less altered rocks suggests that map units 2 to 6 represent progressive alteration stages of rocks of unit 1. All rock and alteration identifications should be considered field classifications. Petrographic and/or XRD examinations are needed to confirm the alteration mineralogy.

### Lithologies

Unit 1 (a) (b) and (c) The rocks of Unit 1 are a fairly uniform sequence of dark red to grey, hematitic andesitic volcanoclastic rocks. Many of the outcrops are moss-covered and appear to be massive (1a) but locally the weathered surface indicates a lapillic and/or amygdaloidal (calcite) texture. This unit may include both flows and massive volcanoclastic beds.

The volcanic breccia unit (1b) typically contains 15 to 30% subangular clasts, to several centimetres across, of dacite, andesite, feldspar porphyry and pumice. These exotic fragmental volcanic rocks are "floating" in a hematitic groundmass similar to the Unit 1a rocks.

A few outcrops of the hematitic volcanics are clearly thin bedded tuffs (1c). Finely banded beds alternate with more massive competent layers with individual beds ranging from 10 centimetres to over a metre in thickness.

Although mapping indicates mostly massive andesites (1a) on the western side of the claim and the volcanic breccia rock (1b) on the top of the ridge this pattern may be due to the nature of outcrop exposure rather than an actual spatial distribution.

Unit 2. Slightly Altered Andesites This unit includes a variety of outcrops which appear to be altered but retain much of their primary features. The alteration may include slight bleaching, weak silification and/or chlorite, epidote, pyrite, sericite/clay (?) alteration. The fresh rock varies from medium grey to blue-grey, reddish grey or green brown in colour. Some outcrops are weakly foliated and/or sheared.

Unit 3 Rocks of unit 3 are pervasively altered to sericite/clay. The outcrops are moderately recessive and weather a dull gray white. They are typically more "chalky" rather than "cherty". Fine pyrite and/or limonite, goethite are occasionally present.

Unit 4 Unit 4 rocks are characteristically rusty weathering and contain 1 to 5% very finely disseminated sulfides in a very siliceous grey to blue grey matrix. In some cases later quartz veining or silicification associated with fracturing appear to have destroyed the sulfides. Hairline veinlets of fine pyrite are present locally.

Unit 5 (a) and (b) This unit consists of pervasively silicified rocks which form resistant knobs and weather a bleached white colour. Although sulfides are generally absent limonite and/or hematite may be present on fractures. Unit 5a forms massive outcrops but unit 5b exposures have a very unusual fragmental texture. Fragments are very poorly sorted ranging from very rounded to angular and from 1 mm to several centimeters across. The fragments consist of white to grey silicified material but often show contrasting colours suggesting a heterogeneous source. However the very dense packing of the fragments with only 10 to 20% silica matrix would indicate that a primary clastic origin is unlikely. The fragmental character of the silicified rock is very different in appearance to the volcanic breccia (1b) and appears to be a tectonic breccia forming by two stages of pervasive silicification separated by a period of tectonic brecciation and grinding.

Unit 6 The alteration type is only exposed in one outcrop in the southeast corner of the claim but is present elsewhere in the area. The rock is light brown weathering and tan on the fresh surface. It has a soapy feel and appears to consist of massive pyrophyllite sericite quartz. No sulfides are present.

Unit 7 This unit is exposed in two small outcrops just east of the baseline in the northern part of the claim. The rock is an andesitic feldspar porphyry with about 15% subangular fresh feldspar phenocrysts to 5 mm long in a purple red hematitic groundmass. The unit appears to form small dykes or sills but might be a flow unit.

Unit 8 The diabase dykes of unit 8 are exposed along the Monteith Bay. The diabase is medium crystalline and relatively fresh except for some chloritic alteration. The dykes are 1 to 2 metres wide, subvertical and vary from 020° to 050° in strike. They are definitely later than the pervasive alteration event.

### Structure

Only a few bedding attitudes could be measured. This data indicates a generally easterly strike and moderate to steep southerly dip. The distribution of the map units reflects the alteration zoning rather than stratigraphy.

Several small scale faults and prominent joint surfaces are oriented 080° to 100°/V or 120° to 140°/N. The brittle silicified outcrops are highly fractured and sheared indicating some post alteration tectonism in addition to the brecciation discussed in the unit 5b description. Two probable fault traces can be inferred from the distribution of altered rocks, shearing and topography. They are an easterly trending fault running through the saddle area near BL7+75S, and a second fault striking approximately 140° and paralleling the baseline at 0+75E to 1+00E.

Although the large area of alteration in the northeast corner of the claim appears to be structurally controlled, the trend of the controlling structures cannot be extrapolated from the limited area of geological mapping.

GEOCHEMISTRY

Rock Geochemistry

Analytical results for Au, Hg, F and Tl are plotted on Map II. Values for these elements were determined by specific analytical techniques with Tl being determined by Chemex Labs and the other elements by Vangeochem.

A group of 30 elements were determined by ICP analyses by Vangeochem for these same samples. Copies of certificates of analysis are provided with this report as Appendix II.

In general only a very few samples returned anomalous values and these values are generally of a low order.

Rock sample 84EAR-32 was the only sample anomalous for gold returning values of 360 ppb Au and 2300 ppb Hg. This sample lies near the north end of the strongest VLF-EM anomaly but is not confirmed by other samples near the trend of that same anomaly. The anomalous rock is a silicified breccia of unit 5b with fragmental texture.

Rock Geochemistry cont'd

Ranges of values for selected elements are as follows: -

<u>Element</u>	<u>Range</u>	<u>Distribution</u>
Hg	0 - 2300 ppb	0 - 10 = 10; 11 - 30 = 36; 31 - 85 = 4 1 @ 2300
Au	0 - 360 ppb	0 - 10 = 43; 11 - 40 = 7; 1 @ 360 ppb
F	10 - 980 ppm	0 - 100 = 18; 101 - 200 = 6; 201 - 300 = 8 301 - 400 = 3; 401 - 500 = 9; 501 - 600 = 2 601 - 700 = 3; 701 - 800 = 1; 801 - 900 = 0 901 + = 1
Mo	1 - 24 ppm	1 - 3 = 25; 4 - 10 = 19; 11 - 15 = 5; 16 - 20 = 1; 20+ = 1
Cu	2 - 365 ppm	2 - 10 = 37; 11 - 20 = 7; 21 - 30 = 3 31 - 50 = 1; 51 - 100 = 1; 100+ = 2
Pb	1 - 23 ppm	
Zn	2 - 291 ppm	2 - 50 = 35; 51 - 100 = 8; 101 - 150 = 4; 151 - 200 = 3; 200+ = 1
Ag	0.1 - 0.8 ppm	
As	2 - 1090	2 - 10 = 41; 11 - 20 = 7; 21 - 30 = 1 31 - 70 = 0; 71 - 80 = 1; 81 - 200 = 0 200+ = 1
Tl	0.1 - 1.5	



Soil Geochemistry

As with rock samples specific techniques were used to determine Au, Hg, F and Tl content in soil samples. ICP analysis was used to determine values for a group of 30 elements. Certificates of analysis are provided in Appendix II. Selected geochemical results are plotted on Maps III and IV.

In general soil samples showed no significant anomalies. Fluorine is the only element with sufficient range of values to suggest an anomalous pattern associated with high rock alteration.

Ranges of values for selected elements are as follows: -

<u>Element</u>	<u>Range</u>	
Hg	nd - 248 ppb	
Au	nd - 20 ppb	
F	20 - 700 ppm	20 - 50 = 11; 51 - 100 = 22, 101 - 150 = 20 151 - 200 = 10; 201 - 250 = 7; 251 - 300 = 3 301 - 350 = 5; 351 - 400 = 5; 400 - 500 = 3 501 - 600 = 3; 601 - 700 = 1
Mo	1 - 29 ppm	Five are $\geq$ 10 ppm
Cu	3 - 130 ppm	3 - 10 = 23; 11 - 20 = 45; 21 - 30 = 8 31 - 50 = 7; 51 - 100 = 6; >100 = 1
Pb	2 - 29	
Zn	2 - 81	
Ag	0.1 - 0.9	
As	2 - 98	2 - 10 = 54; 11 - 20 = 25; 21 - 30 = 10 31 - 90 = 0; 91 - 100 = 1
Tl	0.1 - 0.8	

Map IV shown plotted values for Au, Hg, F and Tl. Contours are plotted where possible for fluorine values and may be compared with the geology, Map I, rock geochemistry Map II and the VLF-EM survey Map V. An apparent correlation of some relatively high fluorine values with high VLF-EM and the single gold anomalous rock geochem is suggested. A second, more completely contoured, fluorine anomaly surrounding the 700 ppm sample does not correlate as well with the VLF-EM results and, as no outcrop is available, little other evidence can be used for comparison.

No significant silver or arsenic anomalies are evident. The slightly higher arsenic values are located on the ridge in the southwest portion of the claim peripheral to the most intense rock alteration. Iron and manganese values exhibit a similar pattern.

VLF-EM SURVEY

A Geonics EM-16 unit was used to measure the signal from the Seattle station. Reception of signals from the Cutler, Maine station was reportedly too weak for survey purposes. Results are plotted on Map V. Values have been calculated using the Fraser Filter to facilitate contouring.

Four anomalous zones are indicated of which three are quite small. The main zone lies approximately parallel to the east shore line within the TOO EASY claim. The pattern of the contours suggests a folded structure while the profiles of the readings indicate complex cross-overs probably due to parallel or en-echelon conductive material. The anomalous zone extends from line 6+75S to line 9+75S and the profile of readings on line 6+00S suggests the zone may extend beyond the end of that line. This main zone covers most of the strongly altered rock formation.

A small EM anomaly occurs on the base line from about 8+30S to 9+25S. No explanation for this zone is apparent.

A third VLF-EM zone is indicated at the southwest end of line 9+75S just outside the claim boundary and a fourth zone is indicated in the northwest corner of the TOO EASY claim. No alteration or other geological structure has been noted during mapping to explain these zones.

CONCLUSIONS AND RECOMMENDATIONS

Rock units within the TOO EASY claim exhibit intense silica - sericite - clay - pyrite alteration. Two periods of silicification and a period of brecciation are suggested. This setting should be generally favourable as a host for precious metals deposition.

The VLF-EM survey indicated zones of conductivity which may be structurally controlled. It is doubtful that these zones are caused primarily by sulphides as no interconnected sulphides are reported on any large scale. It is suggested these are zones of more intense alteration with relatively minor sulphide mineralization. The highest EM contours lie north of unit 4 rock outcrops which exhibit up to 5% sulphides.

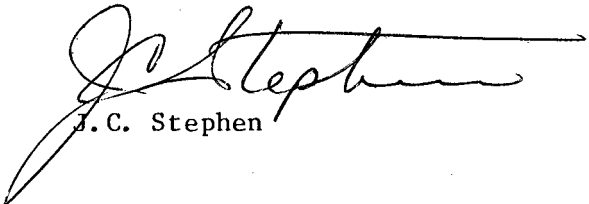
The only significant geochemical value for gold, 360 ppb was obtained at about 7400S, 2+50E approximately coincident with strong rock alteration and the main VLF-EM anomaly. This gold value occurs in a rock sample and is accompanied by a high arsenic value (1090 ppm) and high mercury (2300 ppb). Iron content is low. Soil sampling provides a relative fluorine high (500<sup>+</sup> ppm) in this area.

Certain elements such as Mn, Fe, As and V appear to be relatively low in the area of highly altered rocks. Contours of manganese values generally embrace the fluorine highs as may be seen by comparing contoured values on Maps III and IV.

In summary the attractively altered rock formations and coincident VLF-EM anomalies are not supported by significant precious metals geochemical anomalies. A further test of the structure on the TOO EASY claim would require a speculative drill hole

at about 7+50 S, 2+50 E. This drilling is, however, not recommended unless other supporting evidence of precious metals mineralization is available from some source other than the data collected during this survey.

Respectfully submitted,  
J.C. Stephen Explorations Ltd.



J.C. Stephen

JCS/ms

STATEMENT OF EXPENDITURE

PERSONNEL

A. Heagy	Geologist	June 7-22	15 days @ \$150.	= \$2250.	
C. Lormand	Geol Asst	June 7-22	15 days @ \$120.	= \$1800.	
G. Mowatt	Line Cutter	June 7-22	15 days @ \$120.	= \$1800.	
D. Cone	Line Cutter	June 7-22	15 days @ \$120.	= \$1800.	
J. Marlow	Line Cutter	June 7-22	15 days @ \$120.	= \$1800.	
					\$9,450.00

TRANSPORTATION

B.C. Ferries		\$96.	
Barge Rental		210.	
Boat and Motor Rental		466.	
Truck Use (1) 15 days @ \$35.		525.	
(2) 12 days @ \$35.		420.	
Gas, Vehicles, Boats, Camp		<u>248.39</u>	
			\$1,965.39

CAMP SUPPLIES, MEALS ETC.

Groceries		\$637.77	
Hotel		70.00	
Meals		<u>128.70</u>	
			\$836.47

GEOCHEM ANALYSIS

Vangeochem Invoice 7935		1764.00	
Vangeochem Invoice 7936		1185.75	
Chemex Labs Invoice 8412605		<u>634.50</u>	
			\$3,584.25

SUPERVISION, COMPILATION,

J.C. Stephen	July 5,6	500.00	
Dietrich Post		150.76	
Air Photo Enlargement		20.00	
Telephone, Photo copies		<u>6.08</u>	
			<u>676.84</u>

16,512.95

Names and Addresses

Zodiac Rental    Pak A Boat  
                  207 West 2nd Avenue    685-5738

Empress Boat Sales    521-6549  
7150 Sperling  
Burnaby

Friel Lake Logging - Dennis Dearing Camp Manager

Hankin Bay, Hankin Inlet - Crown Zellerbach  
\$75.00 per hour    rent    landing    launch

Fixed Wing    Air Nootka Ltd., Tahsis    934-6341

A P P E N D I X I

SAMPLE DATA SHEETS



NTS 92 L/3W

SAMPLER HEAGV

PROJECT EASY

LINE

DATE JUNE 1981

Code : 89-EAR-XX

AIR PHOTO No.

SAMPLE NUMBER	AREA CHIP SAMPLED $\frac{m}{m}$	ROCK TYPE	ALTERATION	MINERALIZATION	STRIKE / DIP	ADDITIONAL REMARKS	WIDTH		ASSAYS				
							APPARENT	TRUE	Am. ppb	As.	Sb.		
01	10x5	1a massive andesite	hematitic	minor fine pyrite		apophytic, magnetic locally lapillic			nd				
02	2x10	1a massive andesite	hematitic	—		similar to above			nd				
03	5x5	1b volcanic breccia	hematitic	0-2% v.f. pyrite, iron fractures		15% assorted subangular clasts (and, dac, rhy, pumice)			nd				
04	4x12	2 altered volcanic	chloride/sericite, mod silica	Few veinlets with pyrite		blue gray, blocky			5				
05	3x10	1a massive andesite	hematitic	—					5				
06	3x4	2b coarse volc bx	hematitic, chalky clay altin	—					5				
07	4x25	3b white sericite-qtz altid vx	clay/sericite and mod silica pervasive	no sulfides minor Fe oxides	cliff 085/V	local fragmental appearance, silicified clasts			10				
08	1x3	2b altid breccia	hematitic, but waxy bleached, + chlorite	—		pink green colour, fragmental 71° breccia.			5				
09	2x1	2c altid tuff	hematitic, banded (slightly less altid than)	rare qtz-py veinlets to 1cm	fractured 085/25°S				10				
10	2x4	1a massive andesite	hematite, no alteration	—		dark grey to red			15				
11	4x5	1b volcanic breccia	hematitic	—	joint/bed? 080/30N	~ 30% subangular volcanic clasts, ± amygdalites			15				
12	3x4	2b volcanic breccia	bleached, Fe oxides leached, clay altin	traces of v.f. pyrite	125/25S	upper part of altid is less altered than Nord.			10				
13	2x3	2c altid tuff	gray fissile bedded tuff	—		sheared(?) / strong fissility			5				
14	3x5	3 light brown to gray altid vx	Sericite altin weak silica	qtz veining, 1mm-1cm traces pyrite		fragmental texture			5				
15	3x6	3a blue-gray altid volcanic	Strong sericite clay weak chlorite, silica, no hematite	minor very finely diss. py		some qtz veining (1cm)			5				
16	2x5	4 altid breccia	more silicified than EAR-15	v.f. diss py 2-5%?		qtz veins to 20cm			35				
17	1x3	5 pervasive silica rx	Strongly silicified minor sericite	no sulfides		fine qtz veinlet network			10				
18	2x15	1c bedded tuff	purple to red hematitic	minor 1cm qtz-calc py veins	070/80'S	1m massive beds and finely laminated beds			5				
19	3x2	1a lapillic tuff	hematite	trace f. py					15				
20	3x5	4 qtz-py-ser rx	Strong silica, py mod sericite, highly sheared/fractured.	v.f. diss pyrite & aspy?		rusty weathering zone in large outcrop			70				

NTS 92 L 3W

SAMPLER HEAGY

PROJECT EASY

LINE

DATE June 1989

84-EAR-XX

AIR PHOTO NO.

SAMPLE NUMBER	AREA CHIP SAMPLED m <sup>2</sup>	ROCK TYPE	ALTERATION	MINERALIZATION	STRIKE / DIP	ADDITIONAL REMARKS	APPARENT WIDTH	TRUE WIDTH	ASSAYS			
									AN. ppb	As.	Sb.	
21	2x8	5a massive white silica rx	pervasive silica minor sericite	no sulfides but rare Fe ox.		Resistant knob, weather bone-white, two forks 030/V, 050/V cuts strongly alt'd			5			
22	1x2	8 diabase dyke	weak chlorite alteration						5			
23	3x3	5 silicified rock	white, strongly SiO <sub>2</sub> ± ser alt'd	slightly vuggy due to leached py?					nd			
24	2x5	4 si-py alt'd rx	pervasive silica-sericite	+5% v.f. diss sulfides		rusty weathering, blue gray fresh.			5			
25	10x4	3 wt shared alt'd rx	chuky sericite-gtz alt'n	1% Enc pyrite.		highly sheared/fractured.			nd			
26	5x10	1c hematitic bedded tufts.	purple hematitic		085/20'S	cut by 1m diabase dyke.			nd			
27	2x10	5b silicified tectonic breccia	gray-white pervasive SiO <sub>2</sub>	traces of pyrite		close backed fragmental texture - tectonic breccia? cut by diabase dyke.			5			
28	1x2	3 gy-wt alt'd rx	sericite/clay - mod SiO <sub>2</sub>	no sulfides					5			
29	2x10	3 gy-wt ser-gtz	mod to intense silica-sericite	groundwater no sulfide		groundwater precipitating Fe oxides on surface.			10			
30	5x15	5b wt to grad qtz-ser breccia	pervasive qtz-sericite	minor hematite on fractures		fragmental texture (tectonic?).			nd			
31	2x6	3 wt to gy massive alt'd rx	sericite-gtz alt'n						5			
32	4x4	5b silicified breccia				fragmental texture			360			
33	1x4	5a gray massive alt'd rx	pervasive silica-sericite alt'n	no sulfides					nd			
34	2x10	5a lt gy massive alt'd rx	strong silica-sericite alt'n.	no sulfides					nd			
35	2x5	5b atz-ser breccia	pervasive silica + sericite	no sulfides		characteristic fragmental texture.			nd			
36	5x10	1a massive andesite tufts.	hematitic, chl, epidote, joints			dark gray to red.			30			
37	2x5	1a massive andesite	hematitic			dark gray			10			
38	3x2	1b volcanic breccia	hematitic no alt'n			red			5			
39	2x5	1a lapilli tuft	hematitic			irregular weathering dark gray			5			
40	2x1	7 feldspar porphyry	hematitic groundmass			fresh feldspar vials to 5mm characteristic gm (purple)			35			







NTS 92L-3W

SAMPLER LORMAND

LINE

DATE 6 JUNE 84

PROJECT EASY

AIR PHOTO NO.

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	E.M		ASSAYS			
				Colour	Part Size	% ORG.	Ph				SLOPE	QUAD	Au	As		
7+50S	3+00E								WOODED	ON BEACH - NO SOIL	-33	-2				
7+50S	2+75E	20	A/B	GREY	SAND	10		20	"		-35	-5				
7+50S	2+50E	20	A/B	RED	SANDY CLAY	15		0	"		-9	-2				
7+50S	2+25E	25	A/B	BROWN	SANDY CLAY	15		15	"		+6	+22				
7+50S	2+00E								"	THICK ORGANICS ON SILICIFIED O.C	+12	+6				
7+50S	1+75E										+24	+20				
7+50S	1+50E	25	A/B	RED	SANDY CLAY	10				SILICIFIED OUTCROP (QUARIZ) DEEP ORGANIC LAYER	+22.5	+12				
7+50S	1+25E									SILICIFIED OUTCROP	-10	-12				
7+50S	1+00E	10	A/B	GREY	CLAY	20		0			+11	+7				
7+50S	0+75E	10	A/B	YELLOW	CLAY	15		0			+2	+12				
7+50S	0+50E	15	B	YELLOW	CLAY	10		25			+8	+40				
7+50S	0+25E	10	B	YELLOW	CLAY	15		0			+3	+30				
7+50S	0+00E	15	A/B	GREY	CLAY	15		0			+10	+10				
7+50S	0+25W	15	B	GREY	GRAVEL CLAY	20		0			+13	+8				
7+50S	0+50W	13	B	YELLOW	CLAY	15		0			+13	-4				
7+50S	0+75W	10	B	YELLOW	SANDY	15		0		SILICIFIED FLOAT	+10	-12				
7+50S	+1+00W	8	B	RED	SANDY	10		0			-2	-12				
6+00S	0+00W	8	A/B	RED	CLAY	25		0		BASE LINE	+13	-28				
6+00S	0+25W	5	B	RED	CLAY	10		20°			+14	-30				
6+00S	0+50W	8	A/B	RED	CLAY	20		45			+16	-40				

NTS 92L 3W

SAMPLER LORMAND

DATE 6-JUNE 84

PROJECT ERBY CLAIM

LINE

AIR PHOTO NO.

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	EM SLOPE QUAD		ASSAYS <sup>1</sup>			
				Colour	Part Size	% ORG.	Ph				Au	As				
6+255	0+00W								WOODED	BLOW DOWN AREA	+2	-11				
6+505	0+00W	5	B	RED	CLAY	20	-	20	"		0	-14				
6+755	0+00W	10	B	RED	SNDY CLAY	15		0	"	BASELINE	-3	-8				
6+755	0+25W	10	B	RED	SNDY CLAY	15		0	"		-2.5	-25				
6+755	0+50W	10	B	RED	SNDY CLAY	15		25	"		8.5	-33				
6+755	0+75W	8	B	RED	DK SILTY CLAY	15	-	25	"		+21	-21				
7+005	0+00W									DEEP ORGANIC LAYER CONCRETE HEMATITIC FLOAT	-3	-15				
7+255	0+00W	15	B	RED	CLAY	15	-	15	"		0	-3				
7+755	0+00W	10	B	RED	GRAVEL CLAY	10	-	0	"		+12.5	+28				
8+005	0+00W									SWAMP	+21	+36				
8+255	0+25W	10	B	BROWN	CLAY	15		0	"		+7	+22				
8+255	0+50W	15	B	RED	CLAY	15				HIGHLY ALTERED FLOAT	-3	-12				
8+255	0+75W									(DEAD FALL) BLOW DOWN AREA	-12	-35				
8+255	1+00W	10	B	RED	CLAY	20	-	0	"		-4	-24				
8+255	1+25W	15	B	RED	CLAY	15		10			+2	-14				
8+505	0+00W	10	B	BROWN	CLAY	15	-	-		BASE LINE	+15	+37				
8+755	0+00W	20	B	BROWN	CLAY	10		0		BASE LINE	+16	+35				
9+005	3+00E	10	A/B	DK BROWN		20		0		THICK ORGANIC LAYER	-	-				





SAMPLER LORMAND  
DATE 5-JUNE 84

PROJECT EASY CLAIM

NTS 926-3W  
LINE \_\_\_\_\_  
AIR PHOTO NO. \_\_\_\_\_

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	E.M		ASSAYS			
				Colour	Part Size	% ORG.	Ph				SLOPE	QUAD	Au	As		
91005	2100 E								WOODED	BY OCEAN	-33	-3				
91005	1475 E								THICK ORGANIC LAYER OVER SWAMP		+4	+10				
91005	1450 E	20	A/B	GREY OR BROWN	GRAVEL CLAY	15		Ø	- EDGE OF SWAMP		+9	+10				
91005	1425 E								SWAMP		+13	+9.5				
91005	1400 E								"		-2	+3				
91005	0475 E								"		+2	+2				
91005	0450 E	10	B	GREY BROWN	SILTY CLAY	15		40			+22	+40				
91005	0425 E	08	B	YELLOW BROWN	SANDY CLAY	10		40			-10	+40	✓			
91005	0400 E								SAMPLED JUNE 1 <sup>ST</sup> 1984							
91255	0400 E	10	B	RED BROWN	SANDY CLAY	20		10			-23	+38				
91505	0400 E	15	B	RED BROWN	SILTY CLAY	15		Ø			+3.5	+16				
101005	0400 E	10	B	YELLOW BROWN	SILTY CLAY	15		Ø	"		+8	+40				
101255	0400 E	10	B	YELLOW BROWN	SANDY CLAY	15		35	"		+17	+10				

SAMPLER LORMAND  
DATE JUNE 1/84

PROJECT EASY

NTS 92 L/3W  
LINE \_\_\_\_\_  
AIR PHOTO NO. \_\_\_\_\_

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	E.M.		ASSAYS			
				Colour	Part Size	% ORG.	Ph				QUAD	SLOPE	Au	As		
9+005	2+25N	13	A/D	Dk BR	SLT/CLAY	10		20	WOODED	BASE OF SLOPE	-120	0				
9+005	2+00W	11	B	Dk BR	SLT/CLAY	10		22	"		-20.5	+5				
9+005	1+75W	04	B	Rd BR	SNDY/CLAY	03		22	"		-120	+2				
9+005	1+50V	05	B	Y. BEN.	SNDY/CLAY	03		22	"		-20.0	+3				
9+005	1+25N	08	B	R. BRN	SLT/SND	03		17	"		-19.5	+1				
9+005	1+00W	06	B	R. BR	SLT/SND	03		8	"		-2.5	+6				
9+005	0+75W	06	B	R. BR	SLT/SND	05		8	"		0	0				
9+005	0+50W	05	B	D. BR	SLT/SND	07		8	"		0	0				
9+005	0+25W	09	B	Y. BR	SLT/SND	07		8	"		+20.1	+6.5				
9+005	0+00W	05	B	Y. BEN	SAND	05		24	"		+40	+7.5				
10+505	0+00E	06	B	R. BR	SLT/SND	10		20	"		+35	+15				
10+505	0+25E	05	B	R. BR	SAND	10		20	"	SEE BELOW	0					
10+505	0+50E	06	B	Y. BEN	SNDY/CLAY	07		32		LARGE HILL IN LINE OF SIGHT	0					
10+505	0+75E	04	B	Y. BR	CLAY	06		27		OF E.M.	0					
10+505	1+00E	10	B	Y. BR	CLAY	05		26			0					
10+505	1+25E	15	A/B	BR	CLAY	07		10		10 M. FROM HIGH TIDE LINE	+20	0				
8+255	0+00E	10	A	Y. BR	CLAY	10		0		ON BASELINE	-42	+15				
8+255	0+25E	18	A/D	Y. BR.	CLAY	10		4			+29.5	+13.5				
8+255	0+50E	15	A/B	Y. BR	SANDY CLAY	10		18			+13	+10.0				
8+255	0+75E	20	B	Y. BR	SNDY CLAY	12		40			+20	+20				

NTS 92L-3W

SAMPLER LORMOND

DATE 5 JUNE / 84

PROJECT EAST CLAIM

LINE

AIR PHOTO NO.

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	E.M		ASSAYS	
				Colour	Part Size	% ORG.	Ph				SLOPE	QUAD	Au	As
9+755	1+50E								WOODED	NO SAMPLE	DEEP ORGANIC LAYER -27	+8		
9+755	1+25E	10	B	YELLOW BROWN	GRAVEL SAND	8	-	10	"		-2	+40		
9+755	1+00E	5	B	BROWN	SAND	15		0	"		+14	+40		
9+755	0+75E	5	B	BROWN	SILTY CLAY	15		0	"		+20	+40		
9+755	0+50E	8	B	BROWN	SANDY	20		45	"		+38	+40		
9+755	0+25E	10	B	BROWN	SANDY	15		25	"	HEMATITE FLOAT PRESENT	+8	+35		
9+755	0+00E									NO SAMPLE	DEEP ORGANIC LAYER +8	+20		
9+755	0+25W	8	B	BROWN	SILTY CLAY	15		8	"		+5	+24		
9+755	0+50W	8	A/B	BROWN	SILTY CLAY	15		0	"		+3	+15		
9+755	0+75W	10	A/B	BROWN	SANDY CLAY	20		0	"		-8	-2		
9+755	1+00W	10	B	RED BROWN	SANDY CLAY	25		16	"		-12	-22		
9+755	1+25W	8	B	BROWN	SANDY CLAY	20		0	"		-10	-12		
9+755	1+50W	8	B	RED BROWN	SANDY CLAY	20		30	"		-8	-26		
9+755	1+75W	8	B	RED BROWN	SANDY	15		26	"		-2	-40		
9+755	2+00W	10	B	RED BROWN	SANDY	15		0	"	HEMATITE FLOAT PRESENT IN AREA	-30	-38		
9+755	2+25W	10	B	BROWN	SANDY	15		0	"		+6	-38		
9+755	2+50W	12	B	RED BROWN	SANDY CLAY	30		0	"		+15	-20		
9+755	2+75W	15	B	RED BROWN	SANDY CLAY	40		BASE OF 40° SLOPE	"	ON HIGH TIDE LINE	+11	-10		

APPENDIX II

CERTIFICATES OF ANALYSIS

**VANGEOCHEM LAB LIMITED**

=====

1521 Pemberton Ave.  
North Vancouver B.C. V7P 2S3  
(604)986-5211 Telex: 04-352578

**GEOCHEMICAL ANALYTICAL REPORT**

=====

CLIENT: J.C. STEPHEN EXPLORATION  
ADDRESS: 1458 Rupert Street  
: North Vancouver B.C.  
: V7J 1E9

DATE: June 28 1984

REPORT#: 84-01-042

PROJECT#: EASY  
COPY SENT TO: J.C. STEPHEN EXPLORATION  
SAMPLES ARRIVED: June 11 1984  
REPORT COMPLETED: June 28 1984  
ANALYSED FOR: Hg Au F ICP

JOB#: 84145  
INVOICE#: 7935  
TOTAL SAMPLES: 90  
SAMPLE TYPE: 90 Soil  
REJECTS: SAVED

PREPARED FOR: J.C. STEPHEN EXPLORATION

ANALYSED BY: VGC Staff

SIGNED: \_\_\_\_\_

*[Handwritten Signature]*

GENERAL REMARK: None

**VANBROCKEN LAB LIMITED**  
 1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 04-352578

PREPARED FOR: J.C. STEPHEN EXPLORATION

NOTES: nd = none detected  
 : -- = not analysed  
 : is = insufficient sample

REPORT NUMBER: 84-01-042

JOB NUMBER: 84145

PAGE 1 OF 3

SAMPLE #	Hg ppb	Au ppb	F ppm
5+00S 0+00E	125	nd	155
5+75S 0+00E	125	nd	70
6+00S 0+25E	115	nd	170
6+00S 0+50E	135	nd	115
6+00S 0+75E	145	5	70
6+00S 1+00E	145	nd	60
6+00S 0+00W	100	5	115
6+00S 0+25W	105	nd	170
6+00S 0+50W	95	5	125
6+50S 0+00W	80	5	140
6+75S 0+25E	190	5	105
6+75S 0+50E	220	10	130
6+75S 0+75E	120	5	230
6+75S 1+25E	110	nd	430
6+75S 1+50E	95	nd	285
6+75S 0+00W	130	nd	80
6+75S 0+25W	110	10	45
6+75S 0+50W	130	nd	60
6+75S 0+75W	115	nd	30
7+25S 0+00W	110	5	95
7+50S 0+25E	70	5	270
7+50S 0+50E	120	5	365
7+50S 0+75E	65	nd	700
7+50S 1+00E	25	nd	460
7+50S 1+50E	nd	nd	245
7+50S 2+25E	25	nd	530
7+50S 2+50E	25	nd	580
7+50S 2+75E	70	5	395
7+50S 0+00W	100	15	400
7+50S 0+25W	115	5	310
7+50S 0+50W	95	5	265
7+50S 0+75W	240	10	160
7+50S 1+00W	100	nd	110
7+75S 0+00E	95	nd	380
0+00E 0+25S	35	nd	350
8+25S 0+00E	105	nd	225
8+25S 0+25E	110	10	245
8+25S 0+50E	100	5	500
8+25S 0+75E	90	15	570
DETECTION LIMIT	5	5	1

## VANCOUVER LAB LIMITED

1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 04-352578

PREPARED FOR: J.C. STEPHEN EXPLORATION

NOTES: nd = none detected  
 : -- = not analysed  
 : is = insufficient sample

REPORT NUMBER: 84-01-042

JOB NUMBER: 84145

PAGE 2 OF 3

SAMPLE #	Hg ppb	Au ppb	F ppm
8+25S 1+00E	175	20	60
8+25S 1+25E	115	5	130
8+25S 1+50E	90	nd	350
8+25S 2+25E	20	nd	310
8+25S 2+50E	25	nd	365
8+25S 0+25W	155	nd	105
8+25S 0+50W	110	nd	125
8+25S 1+00W	120	5	50
8+25S 1+25W	110	nd	225
8+50S 0+00W	145	nd	195
8+75S 0+00W	165	nd	100
9+00S 0+25E	170	nd	145
9+00S 0+50E	115	5	200
9+00S 1+50E	100	10	110
9+00S 3+00E	105	nd	70
9+00S 0+00W	120	nd	55
9+00S 0+25W	165	nd	45
9+00S 0+50W	135	5	60
9+00S 0+75W	115	5	135
9+00S 1+00W	95	nd	150
9+00S 1+25W	105	10	50
9+00S 1+50W	130	5	25
9+00S 1+75W	85	10	145
9+00S 2+00W	80	nd	215
9+00S 2+25W	95	5	45
9+25S 0+00E	120	5	60
9+50S 0+00E	105	nd	75
9+75S 0+25E	175	5	80
9+75S 0+50E	165	10	170
9+75S 0+75E	115	10	135
9+75S 1+00E	100	5	200
9+75S 1+25E	85	nd	130
9+75S 0+25W	110	nd	80
9+75S 0+50W	155	5	85
9+75S 0+75W	175	nd	85
9+75S 1+00W	130	nd	175
9+75S 1+25W	155	nd	50
9+75S 1+50W	165	nd	55
9+75S 1+75W	200	nd	45
DETECTION LIMIT	5	5	1

**VANGECHEM LAB LIMITED**

1521 Pemberton Avenue  
North Vancouver B.C. V7P 2S3  
(604) 986-5211 Telex: 04-352578

PREPARED FOR: J.C. STEPHEN EXPLORATION

NOTES: nd = none detected  
: -- = not analysed  
: is = insufficient sample

REPORT NUMBER: 84-01-042

JOB NUMBER: 84145

PAGE 3 OF 3

SAMPLE #	Hg ppb	Au ppb	F ppm
9+75S 2+00W	230	nd	55
9+75S 2+25W	100	10	60
9+75S 2+50W	105	5	115
9+75S 2+75W	130	nd	75
10+00S 0+00E	130	nd	335
10+25S 0+00E	130	5	160
10+50S 0+00E	210	5	205
10+50S 0+25E	140	nd	110
10+50S 0+50E	105	nd	140
10+50S 0+75E	135	nd	50
10+50S 1+00E	160	10	75
10+50S 1+25E	135	nd	20
DETECTION LIMIT	5	5	1



**VANGEOCHEM B LIMITED**  
 1521 PEMBERTON AVENUE  
 NORTH VANCOUVER, B.C. V7P 2S3  
**GEOCHEMICAL ICP ANALYSIS**

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-3 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR Ni, Fe, Ca, P, Cr, Mg, Ba, Ti, B, Al, Na, K, W, Si, Zr, Ce, Sm, Y, Nb AND Ta. NO DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: SOLUTION

DATE RECEIVED: JUNE 1984 DATE REPORT MAILED: *June 20/84* ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

J.C. STEPHEN EXPL. PROJECT # EASY SOLUTION FROM VANGEOCHEM JOB # 84-145 FILE # 84-1114 PAGE 1

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	NI	FE	AS	U	AU	TH	SR	CD	SG	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM
5+00S 0+00E	1	16	10	22	.1	3	9	217	11.66	2	2	ND	3	3	1	2	2	348	.05	.04	3	10	.11	19	.61	2	1.12	.02	.02	2
5+75S 0+00E	2	18	17	34	.1	4	8	324	8.28	2	2	ND	2	8	2	2	3	258	.05	.06	2	15	.19	28	.52	2	.90	.01	.04	2
6+00S 0+25E	3	19	4	35	.1	6	8	270	10.07	9	2	ND	3	4	1	2	2	289	.04	.08	2	24	.15	24	.43	2	3.17	.01	.02	2
6+00S 0+50E	3	65	8	51	.2	7	20	700	6.77	2	2	ND	2	9	2	2	2	183	.09	.09	2	24	.23	25	.22	2	5.01	.01	.02	2
6+00S 0+75E	3	100	17	81	.3	11	23	2474	7.82	9	2	ND	2	11	1	2	2	246	.08	.10	5	56	.28	33	.17	2	3.70	.01	.04	2
6+00S 1+00E	3	53	14	44	.3	7	21	3383	8.12	3	2	ND	2	5	1	2	2	231	.08	.17	4	56	.22	27	.20	2	3.05	.01	.03	2
6+00S 0+00W	2	15	7	15	.1	3	7	217	7.84	2	2	ND	2	4	1	2	2	180	.07	.02	3	20	.12	22	.39	2	.58	.02	.03	2
6+00S 0+25W	1	11	15	16	.1	4	5	215	10.25	2	2	ND	3	5	1	2	2	209	.02	.02	3	20	.12	30	.21	2	2.63	.01	.03	2
6+00S 0+50W	2	13	6	16	.1	3	5	158	6.17	2	2	ND	2	4	1	2	2	210	.04	.03	2	16	.10	16	.26	2	.89	.01	.01	2
6+50S 0+00W	2	24	11	47	.1	8	9	324	7.32	9	2	ND	2	4	1	2	2	145	.05	.07	2	19	.25	17	.24	2	4.73	.01	.02	2
6+75S 0+25E	2	14	7	44	.1	6	14	1015	8.07	7	2	ND	2	4	1	2	2	151	.04	.13	2	15	.27	22	.29	2	2.92	.02	.02	2
6+75S 0+50E	1	24	8	27	.1	5	9	543	9.94	7	2	ND	2	4	1	2	2	232	.03	.07	2	20	.12	22	.41	2	2.30	.01	.02	2
6+75S 0+75E	29	31	29	43	.3	10	8	271	5.57	18	2	ND	2	4	1	2	2	76	.03	.07	2	19	.26	25	.03	2	3.30	.01	.06	2
6+75S 1+25E	5	5	6	5	.3	1	1	41	1.14	2	2	ND	2	6	1	2	2	23	.09	.01	2	3	.03	11	.02	8	.20	.01	.03	2
6+75S 1+50E	2	4	12	5	.1	1	1	59	1.45	4	2	ND	2	3	1	2	2	24	.05	.01	3	4	.03	6	.04	2	.22	.01	.02	2
6+75S 0+00W	2	14	12	43	.1	4	8	380	7.30	6	2	ND	2	4	1	2	2	163	.04	.13	2	13	.09	18	.23	5	4.22	.01	.02	2
6+75S 0+25W	3	13	7	33	.1	4	7	479	6.47	7	2	ND	2	3	1	2	2	150	.03	.10	2	12	.07	17	.26	2	5.61	.02	.02	2
6+75S 0+50W	2	11	14	21	.2	3	5	206	7.51	4	2	ND	2	3	1	2	2	98	.02	.09	2	8	.04	11	.19	2	1.77	.02	.02	2
6+75S 0+75W	1	14	11	27	.1	3	8	288	10.30	2	5	ND	2	4	1	2	2	139	.04	.02	4	10	.05	17	.35	2	.42	.02	.01	2
7+25S 0+00W	1	14	3	17	.1	3	7	186	9.71	5	2	ND	2	3	1	2	2	128	.02	.04	5	9	.04	14	.50	3	1.04	.01	.01	2
STD	23	156	44	93	2.6	662	13	602	3.50	12	2	ND	4	23	2	11	2	49	1.51	.09	4	73	.50	59	.05	27	.90	.04	.20	2
7+50S 0+25E	3	18	13	22	.1	13	4	157	5.64	8	2	ND	2	5	1	2	2	123	.05	.06	5	21	.14	31	.05	2	2.57	.01	.04	2
7+50S 0+50E	2	12	13	12	.3	8	2	71	2.49	6	2	ND	2	6	1	2	2	48	.08	.05	6	4	.05	25	.02	5	1.41	.01	.06	2
7+50S 0+75E	3	12	13	7	.1	5	2	88	3.37	8	2	ND	2	3	1	2	2	58	.05	.02	6	6	.03	39	.02	2	1.13	.01	.05	2
7+50S 1+00E	24	16	12	10	.3	3	1	67	3.58	19	2	ND	2	6	1	2	4	96	.09	.04	4	6	.03	17	.06	4	.62	.01	.03	2
7+50S 1+50E	25	12	7	5	.4	2	1	22	5.80	25	2	ND	2	2	1	2	3	48	.02	.04	2	2	.02	6	.01	5	.33	.01	.03	2
7+50S 2+25E	9	8	7	6	.1	2	1	52	3.15	6	2	ND	2	6	1	2	2	67	.03	.02	3	5	.03	13	.07	3	.46	.01	.04	2
7+50S 2+50E	10	12	11	6	.3	1	1	43	3.20	9	2	ND	2	3	1	2	2	72	.01	.04	4	4	.03	18	.05	2	.79	.01	.05	2
7+50S 2+75E	1	3	6	2	.5	1	1	5	.27	5	2	ND	2	2	1	2	2	6	.01	.01	4	1	.01	7	.01	6	.20	.01	.03	2
7+50S 0+00W	1	7	7	17	.1	1	2	129	1.35	5	2	ND	2	7	1	2	2	16	.09	.02	8	1	.04	25	.01	4	.52	.01	.07	2
7+50S 0+25W	1	6	7	7	.1	2	1	55	1.45	7	2	ND	2	3	1	2	2	35	.01	.01	5	4	.04	22	.01	4	.73	.01	.07	2
7+50S 0+50W	1	31	14	32	.2	5	8	762	6.42	14	2	ND	2	4	2	2	2	109	.04	.10	5	21	.13	35	.04	4	2.65	.01	.07	2
7+50S 0+75W	1	32	22	28	.2	3	6	924	7.80	10	2	ND	2	2	2	2	2	81	.02	.14	8	7	.10	31	.01	4	3.26	.01	.06	2
7+50S 1+00W	1	19	13	29	.1	5	10	853	11.36	14	3	ND	2	10	1	2	2	196	.08	.14	2	11	.12	24	.27	3	2.00	.01	.04	2
7+75S 0+00E	1	14	9	8	.1	2	3	51	2.10	3	2	ND	2	2	1	2	2	33	.02	.02	9	2	.02	14	.01	3	.70	.01	.08	2
0+00E 8+25S	6	12	8	16	.1	3	3	100	4.59	10	2	ND	2	6	1	2	2	95	.07	.07	2	13	.15	16	.11	7	1.56	.01	.03	2
8+25S 0+00E	1	10	9	9	.1	1	2	65	2.69	4	2	ND	2	2	1	2	2	41	.01	.02	10	4	.07	36	.01	3	1.39	.01	.09	2
8+25S 0+25E	2	10	8	11	.1	2	2	92	3.15	2	2	ND	2	5	1	2	2	67	.02	.03	5	5	.07	26	.04	2	.01	.02	.05	2
8+25S 0+50E	1	18	11	6	.2	1	2	27	2.73	4	2	ND	2	2	1	2	2	33	.01	.03	3	1	.03	19	.01	3	1.18	.01	.07	2
8+25S 0+75E	2	15	6	4	.2	1	1	25	1.85	8	2	ND	2	2	1	2	2	26	.01	.03	4	1	.02	25	.01	3	1.08	.01	.07	2
STD A-1	2	31	39	186	.3	37	12	1021	2.81	9	2	ND	3	35	2	2	2	57	.63	.10	7	65	.63	250	.10	8	2.01	.02	.19	2

1521 PEMBERTON VENUE  
NORTH VANCOUVER, B.C. V7P 2S3

J.C. STEPHEN EXPL. PROJECT # EASY SOLUTION FROM VANGEOCHEM JOB # 84-145 FILE # 84-1114 PAGE 2

SAMPLE#	NO	CU	PB	ZN	AG	NI	CO	MM	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	M
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	%	PPM
8+25S 1+00E	1	9	13	11	.7	3	1	14	.31	5	2	ND	2	8	1	2	2	5	.03	.08	2	1	.03	39	.01	5	.47	.10	.03	2
8+25S 1+25E	2	8	5	8	.4	1	2	94	2.33	2	2	ND	2	6	1	2	2	88	.04	.02	5	4	.05	14	.21	5	.56	.02	.03	2
8+25S 1+50E	3	8	1	6	.4	1	1	47	1.13	5	2	ND	2	11	1	2	2	27	.05	.02	2	1	.04	30	.01	7	.28	.02	.04	2
8+25S 2+25E	19	23	3	41	.1	6	8	385	12.91	98	6	ND	2	33	1	4	2	93	.13	.42	10	10	.34	10	.06	15	1.02	.05	.07	2
8+25S 2+50E	4	18	13	45	.1	11	7	415	3.74	27	5	ND	2	32	2	2	2	63	.27	.13	8	19	.66	9	.08	30	1.26	.25	.07	2
8+25S 0+25W	3	86	9	57	.1	8	47	3166	6.76	23	4	ND	2	5	2	2	2	224	.06	.23	12	34	.31	29	.13	6	4.73	.01	.03	2
8+25S 0+50W	2	24	2	39	.4	6	9	397	8.29	24	2	ND	2	5	1	2	2	285	.03	.07	8	21	.21	22	.36	4	2.11	.01	.01	2
8+25S 1+00W	2	8	11	13	.1	2	4	111	6.06	10	2	ND	2	6	2	2	2	99	.05	.02	8	6	.03	27	.19	10	.41	.01	.02	2
8+25S 1+25W	1	19	11	27	.3	5	5	297	7.33	18	3	ND	3	7	2	2	2	153	.03	.11	7	12	.12	34	.08	2	2.80	.01	.03	2
8+50S 0+00W	1	17	15	29	.2	15	7	342	6.29	5	2	ND	3	4	2	2	2	77	.02	.06	8	32	.18	39	.02	5	2.52	.01	.09	2
9+00S 0+25E	1	7	6	6	.4	1	2	96	.60	2	2	ND	2	1	1	2	2	12	.01	.01	2	1	.02	5	.01	2	.45	.01	.02	2
9+00S 0+25E	1	70	15	56	.2	17	18	911	5.81	19	2	ND	3	7	2	2	2	113	.02	.07	9	33	.20	48	.02	2	4.22	.01	.10	2
9+00S 0+50E	1	25	8	17	.1	6	8	399	5.88	14	3	ND	2	5	2	2	2	121	.02	.05	7	25	.11	35	.03	2	2.38	.01	.09	2
9+00S 1+50E	2	12	17	14	.3	4	3	93	2.73	8	2	ND	2	12	1	2	2	75	.19	.03	5	3	.08	27	.19	12	.46	.02	.02	2
9+00S 3+00E	1	50	12	51	.8	9	4	223	2.49	2	2	ND	2	10	3	2	2	26	.11	.07	6	7	.10	35	.05	7	1.03	.04	.06	2
9+00S 0+00W	2	48	15	77	.2	8	17	1023	8.58	20	3	ND	3	5	2	2	2	225	.04	.10	5	15	.41	27	.25	2	5.34	.01	.04	2
9+00S 0+25W	2	9	1	75	.6	5	13	783	6.22	25	2	ND	3	9	2	2	2	200	.13	.11	4	13	.76	22	.32	5	5.16	.02	.02	2
9+00S 0+50W	1	20	15	40	.6	4	6	654	5.43	13	2	ND	2	5	2	2	2	93	.03	.12	6	10	.13	25	.09	4	2.94	.01	.04	2
9+00S 0+75W	2	11	24	36	.1	5	6	242	9.41	10	2	ND	4	4	2	2	2	188	.03	.07	5	17	.22	22	.08	2	1.56	.02	.03	2
9+00S 1+00W	1	10	12	29	.4	3	6	288	9.76	16	2	ND	4	5	1	2	2	203	.03	.06	6	14	.15	30	.20	2	1.47	.01	.03	2
STD	20	144	43	89	3.0	615	14	578	3.26	6	2	ND	6	25	2	11	2	47	1.46	.09	5	74	.49	26	.04	34	.92	.04	.21	2
9+00S 1+25W	2	14	12	23	.5	5	6	188	9.56	8	2	ND	3	4	2	2	2	143	.04	.03	6	20	.13	23	.34	2	.61	.02	.02	2
9+00S 1+50W	2	29	12	49	.6	4	13	1347	4.32	19	2	ND	2	6	2	2	2	121	.05	.20	4	15	.14	23	.10	5	5.72	.01	.03	2
9+00S 1+75W	2	42	12	49	.1	5	8	378	7.87	29	2	ND	3	5	2	2	2	242	.04	.08	8	28	.12	24	.21	7	3.39	.01	.02	2
9+00S 2+00W	1	20	8	28	.6	7	6	195	4.51	4	2	ND	3	18	2	2	2	158	.11	.05	4	14	.20	40	.16	6	1.11	.01	.05	2
9+00S 2+25W	1	8	12	40	.4	2	7	244	5.84	14	2	ND	2	10	2	2	2	138	.05	.04	5	6	.23	36	.15	6	.71	.01	.03	2
9+25S 0+00E	1	11	12	38	.3	4	6	220	10.02	25	2	ND	4	5	1	2	2	183	.02	.06	4	10	.13	27	.14	2	3.14	.01	.02	2
9+50S 0+00E	1	8	20	24	.2	3	6	188	10.53	21	2	ND	4	5	1	2	2	148	.02	.05	6	7	.09	21	.21	2	1.52	.01	.02	2
9+75S 0+25E	1	9	9	34	.2	5	8	323	7.14	20	2	ND	2	4	2	2	2	124	.01	.05	6	10	.08	37	.06	5	5.78	.01	.04	2
9+75S 0+50E	1	14	14	28	.1	4	12	755	7.50	12	2	ND	2	5	2	2	2	153	.02	.08	15	11	.17	60	.03	2	2.65	.01	.05	2
9+75S 0+75E	1	10	5	33	.2	3	14	1118	6.01	20	4	ND	2	10	2	2	2	199	.27	.09	3	9	.18	53	.03	3	2.00	.02	.05	2
9+75S 1+00E	1	12	11	25	.4	4	5	267	7.43	14	3	ND	2	9	2	2	2	153	.22	.06	2	19	.11	33	.16	2	1.53	.01	.05	2
9+75S 1+25E	1	18	14	39	.5	8	6	274	7.51	23	2	ND	3	9	2	2	2	121	.17	.14	2	29	.41	20	.22	2	2.91	.01	.03	2
9+75S 0+25W	2	11	15	23	.1	3	8	476	11.59	17	2	ND	3	5	1	4	2	162	.04	.04	4	9	.06	21	.31	2	.61	.01	.02	2
9+75S 0+50W	1	11	20	28	.4	4	10	603	9.66	11	2	ND	3	5	1	2	2	136	.04	.08	3	7	.10	15	.27	2	1.06	.02	.03	2
9+75S 0+75W	4	13	12	29	.3	4	11	2055	10.68	24	5	ND	2	4	1	2	2	192	.04	.27	6	1	.14	15	.28	2	2.05	.01	.03	2
9+75S 1+00W	2	36	12	46	.5	6	10	612	7.58	20	3	ND	2	5	2	2	2	183	.03	.17	3	33	.26	25	.08	2	2.66	.01	.04	2
9+75S 1+25W	1	26	19	41	.6	5	11	1070	8.30	16	2	ND	2	5	1	2	2	223	.06	.13	2	17	.20	23	.37	2	2.01	.01	.05	2
9+75S 1+50W	2	130	11	63	.3	12	37	2872	7.29	16	5	ND	2	24	2	4	2	208	.33	.26	2	32	.80	26	.25	2	3.63	.03	.04	2
9+75S 1+75W	2	73	14	74	.4	5	15	1769	9.16	16	4	ND	2	5	2	2	2	203	.05	.20	2	26	.19	25	.26	2	4.31	.02	.03	2
STD A-1	2	30	39	186	.3	36	13	1019	2.77	10	2	ND	2	37	2	2	2	56	.62	.11	7	64	.63	255	.10	8	2.03	.02	.20	2

VANGEOCHEM LAB LIMITED  
 1521 PEMBERTON AVENUE  
 NORTH VANCOUVER, B.C. V7P 2S3

J.C. STEPHEN EXPL. PROJECT # EASY SOLUTION FROM VANGEOCHEM JOB # 84-145 FILE # 84-1114 PAGE 3

SAMPLE#	ND	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	M
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
9+7SS 2+00M	1	15	8	50	.4	7	14	1902	6.82	6	2	ND	2	8	2	2	2	185	.07	.17	9	29	.14	41	.10	2	2.46	.02	.04	2
9+7SS 2+25M	2	18	8	36	.4	7	6	540	7.08	12	2	ND	2	4	3	2	2	156	.03	.09	12	20	.20	26	.09	2	2.99	.02	.03	2
9+7SS 2+50M	2	4	11	31	.1	2	2	132	5.24	5	2	ND	2	4	2	2	2	116	.03	.03	11	1	.14	22	.10	2	.78	.01	.02	2
9+7SS 2+75M	1	7	26	61	.7	4	8	289	10.88	15	2	ND	2	4	1	2	2	208	.03	.12	21	1	.21	20	.06	2	2.08	.01	.02	2
10+00S 0+00E	3	5	10	27	.5	5	3	348	11.05	4	4	ND	2	6	1	2	5	301	.06	.05	13	13	.17	19	.71	2	1.12	.02	.02	2
10+25S 0+00E	1	22	12	61	.9	8	6	677	13.37	7	4	ND	2	10	1	2	6	383	.06	.10	16	53	.35	30	.41	9	2.88	.02	.04	2
10+50S 0+00E	2	11	19	62	.6	8	7	482	12.04	11	3	ND	2	5	1	2	2	241	.04	.12	18	19	.23	26	.29	12	4.54	.02	.03	2
10+50S 0+25E	2	13	14	67	.9	9	9	644	11.32	6	3	ND	2	8	1	2	2	321	.08	.07	16	38	.29	35	.16	7	2.74	.01	.04	2
10+50S 0+50E	1	11	11	22	.1	8	4	243	4.05	7	2	ND	2	6	3	2	2	75	.13	.05	12	12	.17	47	.01	5	2.03	.01	.09	2
10+50S 0+75E	1	11	9	16	.1	4	4	321	3.26	8	2	ND	2	3	1	2	2	53	.09	.07	9	7	.05	32	.01	2	2.06	.01	.07	2
10+50S 1+00E	1	8	9	11	.1	4	2	408	3.64	8	2	ND	2	6	2	2	2	36	.28	.07	6	5	.05	70	.01	2	1.43	.01	.06	2
10+50S 1+25E	3	11	15	23	.2	10	7	2516	2.44	7	2	ND	2	15	2	3	2	45	1.09	.09	12	11	.13	160	.01	3	1.78	.01	.06	2
STD A-1	2	30	39	186	.3	36	13	1050	2.77	9	2	ND	2	37	2	2	2	56	.62	.10	7	64	.63	255	.10	8	2.06	.02	.20	2

**VANGEOCHEM LAB LIMITED**

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1521 Pemberton Ave.  
North Vancouver B.C. V7P 2S3  
(604)986-5211 Telex: 04-352578

**GEOCHEMICAL ANALYTICAL REPORT**

**CLIENT: J.C. STEPHEN EXPLORATION**  
ADDRESS: 1458 Rupert Street  
: North Vancouver B.C.  
: V7J 1E9

DATE: June 28 1984

**REPORT#: 84-01-043**

PROJECT#: EASY  
COPY SENT TO: J.C. STEPHEN EXPLORATION  
SAMPLES ARRIVED: June 11 1984  
REPORT COMPLETED: June 28 1984  
ANALYSED FOR: Hg Au F ICP

JOB#: 84146  
INVOICE#: 7936  
TOTAL SAMPLES: 51  
SAMPLE TYPE: 51 Rock  
REJECTS: SAVED

**PREPARED FOR: J.C. STEPHEN EXPLORATION**

ANALYSED BY: VGC Staff

SIGNED: \_\_\_\_\_  


GENERAL REMARK: Au analysis by FA/AAS

**VANGECHEM LAB LIMITED**1521 Pemberton Avenue  
North Vancouver B.C. V7P 2S3  
(604) 986-5211 Telex: 04-352578

PREPARED FOR: J.C. STEPHEN EXPLORATION

NOTES: nd = none detected  
: -- = not analysed  
: is = insufficient sample

REPORT NUMBER: 84-01-043

JOB NUMBER: 84146

PAGE 1 OF 2

SAMPLE #	Hg ppb	Au ppb	F ppm
84 - EAR - 01	15	nd	325
84 - EAR - 02	15	nd	480
84 - EAR - 03	25	nd	420
84 - EAR - 04	15	5	500
84 - EAR - 05	25	5	980
84 - EAR - 06	25	5	500
84 - EAR - 07	85	10	60
84 - EAR - 08	20	5	710
84 - EAR - 09	20	10	620
84 - EAR - 10	15	15	510
84 - EAR - 11	15	15	245
84 - EAR - 12	20	10	325
84 - EAR - 13	15	5	450
84 - EAR - 14	20	5	470
84 - EAR - 15	15	5	295
84 - EAR - 16	20	35	275
84 - EAR - 17	40	10	660
84 - EAR - 18	20	5	455
84 - EAR - 19	65	15	320
84 - EAR - 20	5	10	290
84 - EAR - 21	25	5	45
84 - EAR - 22	15	5	175
84 - EAR - 23	15	nd	35
84 - EAR - 24	15	5	50
84 - EAR - 25	10	nd	560
84 - EAR - 26	15	nd	460
84 - EAR - 27	15	5	55
84 - EAR - 28	20	5	60
84 - EAR - 29	nd	10	650
84 - EAR - 30	15	nd	35
84 - EAR - 31	5	5	90
84 - EAR - 32	2300	360	60
84 - EAR - 33	25	nd	50
84 - EAR - 34	15	nd	55
84 - EAR - 35	10	nd	45
84 - EAR - 36	15	30	250
84 - EAR - 37	30	10	235
84 - EAR - 38	20	5	155
84 - EAR - 39	15	5	250
DETECTION LIMIT	5	5	1

**WANBEICHEM LAB LIMITED**

1521 Pemberton Avenue  
North Vancouver B.C. V7P 2S3  
(604) 986-5211 Telex: 04-352578

PREPARED FOR: J.C. STEPHEN EXPLORATION

NOTES: nd = none detected  
: -- = not analysed  
: is = insufficient sample

REPORT NUMBER: 84-01-043

JOB NUMBER: 84146

PAGE 2 OF 2

SAMPLE #	Hg ppb	Au ppb	F ppm
84 - EAR - 40	15	35	40
84 - EAR - 41	nd	10	160
84 - EAR - 42	15	5	140
84 - EAR - 43	15	40	70
84 - EAR - 44	nd	nd	10
84 - EAR - 45	20	nd	30
84 - EAR - 46	15	5	25
84 - ECR - 01	5	5	50
84 - ECR - 02	nd	5	155
84 - ECR - 03	nd	10	140
84 - ECR - 04	40	10	295
84 - ECR - 05	15	5	440
DETECTION LIMIT	5	5	1

VANGEOCHEM LAB LIMITED  
 1521 PEARSON AVENUE  
 NORTH VANCOUVER, B.C. V7P 2S3

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-3 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: SOLUTION

DATE RECEIVED: JUNE 11 1984 DATE REPORT MAILED: *June 19/84* ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

J.C. STEPHEN EXPL.		PROJECT # EASY		SOLUTION FROM VANGEOCHEM														JOB # 84-146		FILE # 84-1149		PAGE 1								
SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	%	PPM
84-EAR-01	1	5	15	102	.1	3	13	1048	6.41	6	2	ND	2	15	3	2	4	140	.65	.10	6	7	1.31	56	.35	2	1.84	.14	.06	2
84-EAR-02	4	4	1	132	.1	3	15	1066	7.29	14	2	ND	2	6	2	2	7	170	.56	.10	13	5	1.37	43	.35	20	1.95	.15	.07	2
84-EAR-03	1	4	23	55	.1	5	13	785	7.14	6	2	ND	2	7	2	2	2	92	.52	.09	11	11	.54	56	.21	9	1.50	.06	.23	2
84-EAR-04	2	9	16	63	.2	5	5	338	3.19	7	2	ND	2	13	1	3	2	33	.42	.10	11	7	.30	161	.02	6	1.62	.05	.40	2
84-EAR-05	1	39	1	23	.2	1	3	166	2.42	6	9	ND	2	7	1	2	2	17	.28	.08	10	6	.07	120	.03	15	1.07	.10	.28	2
84-EAR-06	1	7	11	6	.1	6	2	66	1.53	2	3	ND	2	3	1	5	2	14	.14	.05	4	9	.04	52	.01	19	.77	.01	.28	2
84-EAR-07	3	4	22	4	.2	3	1	16	.22	4	2	ND	2	1	1	3	2	2	.01	.01	2	36	.01	7	.01	16	.07	.01	.02	2
84-EAR-08	2	13	7	4	.1	6	1	26	1.69	6	2	ND	2	1	1	4	2	5	.02	.03	2	14	.02	46	.01	14	.65	.01	.33	2
84-EAR-09	2	15	5	12	.1	3	2	80	1.92	2	2	ND	2	2	1	6	2	15	.03	.03	6	14	.06	49	.01	19	.95	.02	.36	2
84-EAR-10	9	148	1	114	.6	22	16	1253	5.97	7	2	ND	2	20	2	2	5	253	1.05	.10	4	53	2.14	39	.37	5	2.38	.12	.10	2
84-EAR-11	5	6	1	79	.5	16	19	757	7.56	2	2	ND	2	6	2	2	2	199	.19	.06	3	19	.71	26	.19	7	1.62	.14	.07	2
84-EAR-12	3	18	20	57	.5	5	6	172	2.28	4	3	ND	2	3	1	6	2	16	.12	.06	6	6	.23	60	.01	12	1.42	.03	.35	2
84-EAR-13	1	4	8	24	.1	5	4	359	1.06	2	5	ND	2	1	1	4	2	11	.02	.01	4	5	.06	35	.01	9	.66	.01	.32	2
84-EAR-14	1	10	15	19	.1	7	2	54	1.27	6	2	ND	2	2	1	7	2	7	.03	.04	7	10	.05	79	.01	19	.64	.02	.31	2
84-EAR-15	1	16	10	14	.1	3	2	74	1.51	19	2	ND	2	2	1	5	2	16	.03	.04	6	11	.07	109	.01	11	.55	.01	.29	2
84-EAR-16	1	7	3	13	.1	5	2	107	1.42	6	4	ND	2	4	1	4	2	18	.11	.03	5	28	.11	69	.02	15	.55	.04	.20	2
84-EAR-17	4	7	9	2	.1	7	1	17	.39	77	2	ND	2	6	1	5	2	6	.01	.01	2	49	.01	26	.01	8	.31	.01	.07	2
84-EAR-18	2	9	1	21	.2	5	3	106	1.72	2	5	ND	2	6	1	2	2	15	.10	.03	11	19	.11	140	.01	15	.92	.04	.34	2
84-EAR-19	11	365	21	152	.6	34	31	1543	9.16	19	2	ND	2	4	2	2	6	363	.52	.10	9	62	1.58	26	.43	13	3.11	.12	.06	2
84-EAR-20	6	30	13	7	.4	11	7	63	2.01	14	4	ND	2	6	1	4	2	13	.03	.01	2	33	.05	6	.01	12	.35	.02	.19	2
STD	25	153	32	86	2.1	585	11	546	3.05	13	2	ND	2	25	2	10	2	43	1.35	.06	7	76	.47	62	.04	27	.86	.04	.22	2
84-EAR-21	5	7	1	3	.1	5	1	21	.52	10	2	ND	2	1	1	3	3	4	.01	.01	2	40	.01	7	.01	11	.04	.01	.01	2
84-EAR-22	3	10	18	131	.3	13	16	895	4.46	2	2	ND	2	53	1	2	5	79	1.94	.11	14	19	1.85	29	.02	11	2.85	.13	.12	2
84-EAR-23	8	9	8	12	.2	6	3	44	.47	5	3	ND	2	2	1	2	3	3	.03	.01	2	48	.03	7	.01	13	.07	.01	.01	2
84-EAR-24	10	11	7	5	.2	6	2	16	.91	7	3	ND	2	2	1	2	2	2	.01	.01	2	42	.01	2	.01	4	.07	.01	.05	2
84-EAR-25	5	24	1	5	.2	26	11	17	2.51	23	2	ND	2	9	2	5	2	4	.03	.02	5	43	.02	10	.01	16	.33	.02	.19	2
84-EAR-26	2	3	3	27	.1	25	14	657	3.38	7	2	ND	2	17	2	2	2	54	2.47	.06	13	29	.46	53	.10	23	1.26	.09	.41	2
84-EAR-27	9	5	12	4	.1	6	1	30	.52	6	2	ND	2	1	1	2	2	2	.04	.01	2	49	.01	7	.01	11	.09	.01	.04	2
84-EAR-28	10	9	8	6	.1	5	1	37	.47	6	3	ND	2	3	1	2	2	4	.02	.01	6	66	.01	7	.01	2	.10	.01	.04	2
84-EAR-29	3	10	5	6	.2	5	1	17	1.14	14	2	ND	2	5	1	2	2	2	.01	.01	4	45	.01	106	.01	15	.22	.01	.13	2
84-EAR-30	10	5	2	2	.1	5	1	22	.46	5	2	ND	2	1	1	2	2	2	.01	.01	2	34	.01	7	.01	16	.02	.01	.01	2
84-EAR-31	16	9	12	2	.5	10	1	31	1.47	7	2	ND	2	1	1	4	2	2	.01	.01	2	75	.01	9	.01	6	.68	.01	.05	2
84-EAR-32	7	4	1	6	.1	6	1	46	.81	1090	2	ND	2	1	1	3	2	4	.01	.01	2	25	.03	7	.01	13	.06	.01	.01	2
84-EAR-33	3	4	6	2	.1	3	1	25	.16	8	2	ND	2	1	1	5	2	2	.01	.01	2	38	.01	4	.01	14	.02	.01	.01	2
84-EAR-34	3	5	7	2	.1	3	1	25	.36	4	2	ND	2	1	1	2	2	2	.01	.01	2	50	.01	4	.01	11	.03	.01	.01	2
84-EAR-35	2	7	6	19	.1	8	1	39	.46	2	5	ND	2	1	1	2	4	2	.01	.01	2	76	.01	7	.01	11	.02	.01	.01	2
84-EAR-36	13	4	2	181	.2	3	14	1258	6.91	2	2	ND	2	12	2	2	6	170	.60	.10	7	8	1.71	42	.46	16	2.17	.15	.06	2
84-EAR-37	10	87	3	96	.4	22	17	1039	5.72	6	2	ND	2	22	2	2	2	211	.83	.10	4	39	1.52	62	.29	19	2.13	.12	.10	2
84-EAR-38	12	6	10	60	.3	14	17	1103	6.60	3	2	ND	2	7	2	4	2	142	.56	.08	5	24	.78	36	.26	13	1.56	.08	.10	2
84-EAR-39	12	7	1	175	.2	3	14	933	7.63	2	2	ND	2	4	3	4	2	123	.30	.09	2	9	1.17	24	.21	12	2.01	.09	.04	2
STD A-1	8	30	40	193	.3	37	11	1071	2.77	9	2	ND	2	38	2	2	2	57	.62	.10	7	66	.63	267	.10	8	2.06	.02	.21	2

VANGEOCHEM LAB LIMITED  
 1521 PEMBERTON AVENUE  
 NORTH YORK, ONTARIO M2H 1P7

J.C. STEPHEN EXPL. PROJECT # EASY SOLUTION FROM VANGEOCHEM JOB # 84-146 FILE # 84-1149 PAGE 2

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM
84-EAR-40	1	24	16	291	.1	60	20	2416	5.18	7	2	ND	2	13	1	2	7	161	.85	.04	3	150	2.58	103	.26	9	3.38	.06	.18	2
84-EAR-41	4	5	13	12	.3	5	1	83	.39	2	2	ND	2	1	1	2	2	5	.02	.01	2	26	.06	7	.01	2	.11	.01	.01	2
84-EAR-42	1	4	13	37	.2	1	2	562	6.87	6	2	ND	2	5	1	2	2	110	.25	.12	10	11	.05	13	.11	11	.47	.16	.02	2
84-EAR-43	5	6	4	38	.3	6	22	1272	7.44	14	2	ND	2	8	1	2	2	136	.51	.10	13	12	1.25	24	.23	21	1.69	.20	.03	2
84-EAR-44	1	2	1	3	.1	1	1	42	.16	2	3	ND	2	121	1	2	5	5	.02	.01	2	13	.02	37	.01	5	.57	.05	.14	2
84-EAR-45	4	17	6	28	.6	6	5	201	3.24	14	2	ND	2	16	1	2	2	22	.26	.08	7	13	.18	62	.03	11	.91	.02	.29	2
84-EAR-46	3	16	1	56	.2	6	5	463	3.17	8	2	ND	2	5	1	2	2	39	.19	.08	7	11	.46	68	.05	14	1.71	.07	.25	2
84-ECR-01	10	9	1	2	.3	3	1	24	1.22	9	2	ND	2	1	1	2	2	2	.01	.01	2	39	.01	7	.01	11	.07	.01	.04	2
84-ECR-02	11	9	5	9	.4	5	1	46	1.16	11	2	ND	2	1	1	6	2	2	.01	.01	2	63	.01	4	.01	10	.07	.01	.03	2
84-ECR-03	4	6	2	3	.3	1	1	37	.68	2	2	ND	2	1	1	3	2	2	.01	.01	2	62	.01	2	.01	2	.03	.01	.01	2
84-ECR-04	24	9	2	2	.4	3	1	21	.95	7	2	ND	2	2	1	3	2	2	.01	.01	2	51	.01	7	.01	12	.04	.01	.01	2
84-ECR-05	3	7	1	3	.2	4	1	40	.33	2	2	ND	2	1	1	4	2	2	.01	.01	2	70	.01	8	.01	15	.01	.01	.01	2
STD A-1	2	30	40	191	.3	38	11	1028	2.77	9	2	ND	2	36	2	2	2	56	.62	.09	7	65	.63	263	.19	8	2.06	.02	.19	2





# CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
NORTH VANCOUVER, B.C.  
CANADA V7J 2C1  
TELEPHONE (604) 984-0221  
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

TO : STEPHEN, J.C. EXPLORATION LIMITED

1458 RUPERT STREET  
NORTH VANCOUVER, B.C.  
V7J 1E9

CERT. # : A8412605-001-A  
INVOICE # : 18412605  
DATE : 26-JUN-84  
P.O. # : NONE  
EASY (FALCON BRIDGE)

Sample description	Prep code	TI ppm						
5+00S 0+00E	214	0.1	--	--	--	--	--	--
5+75S 0+00E	214	0.1	--	--	--	--	--	--
6+00S 0+25E	214	0.1	--	--	--	--	--	--
6+00S 0+50E	214	0.1	--	--	--	--	--	--
6+00S 0+75E	214	0.1	--	--	--	--	--	--
6+00S 1+00E	214	0.1	--	--	--	--	--	--
6+00S 0+00W	214	0.1	--	--	--	--	--	--
6+00S 0+25W	214	0.1	--	--	--	--	--	--
6+00S 0+50W	214	0.1	--	--	--	--	--	--
6+50S 0+00W	214	0.1	--	--	--	--	--	--
6+75S 0+25E	214	0.1	--	--	--	--	--	--
6+75S 0+50E	214	0.1	--	--	--	--	--	--
6+75S 0+75E	214	0.4	--	--	--	--	--	--
6+75S 1+25E	214	0.1	--	--	--	--	--	--
6+75S 1+50E	214	0.1	--	--	--	--	--	--
6+75S 0+00W	214	0.1	--	--	--	--	--	--
6+75S 0+25W	214	0.1	--	--	--	--	--	--
6+75S 0+50W	214	0.1	--	--	--	--	--	--
6+75S 0+75W	214	0.1	--	--	--	--	--	--
7+25S 0+00W	214	0.1	--	--	--	--	--	--
7+50S 0+25E	214	0.2	--	--	--	--	--	--
7+50S 0+50E	214	0.3	--	--	--	--	--	--
7+50S 0+75E	214	0.6	--	--	--	--	--	--
7+50S 1+00E	214	0.6	--	--	--	--	--	--
7+50S 1+50E	214	0.4	--	--	--	--	--	--
7+50S 2+25E	214	0.3	--	--	--	--	--	--
7+50S 2+50E	214	0.5	--	--	--	--	--	--
7+50S 2+75E	214	0.2	--	--	--	--	--	--
7+50S 0+00W	214	0.5	--	--	--	--	--	--
7+50S 0+25W	214	0.4	--	--	--	--	--	--
7+50S 0+50W	214	0.3	--	--	--	--	--	--
7+50S 0+75W	214	0.4	--	--	--	--	--	--
7+50S 1+00W	214	0.1	--	--	--	--	--	--
7+75S 0+00E	214	0.4	--	--	--	--	--	--
0+00E 8+25S	214	0.3	--	--	--	--	--	--
8+25S 0+00E	214	0.4	--	--	--	--	--	--
8+25S 0+25E	214	0.1	--	--	--	--	--	--
8+25S 0+50E	214	0.5	--	--	--	--	--	--
8+25S 0+75E	214	0.5	--	--	--	--	--	--
8+25S 1+00E	214	0.1	--	--	--	--	--	--

Certified by *Hart Bichler* .....





# CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
NORTH VANCOUVER, B.C  
CANADA V7J 2C1

TELEPHONE: (604) 984-0221  
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

TO : STEPHEN, J.C. EXPLORATION LIMITED

1458 RUPERT STREET  
NORTH VANCOUVER, B.C.  
V7J 1E9

CERT. # : A8412605-002-A  
INVOICE # : 18412605  
DATE : 26-JUN-84  
P.O. # : NONE  
EASY (FALCON BRIDGE)

Sample description	Prep code	TI ppm						
8+25S 1+25E	214	0.2	--	--	--	--	--	--
8+25S 1+50E	214	0.4	--	--	--	--	--	--
8+25S 2+25E	214	0.3	--	--	--	--	--	--
8+25S 2+50E	214	0.3	--	--	--	--	--	--
8+25S 0+25W	214	0.3	--	--	--	--	--	--
8+25S 0+50W	214	0.1	--	--	--	--	--	--
8+25S 1+00W	214	0.1	--	--	--	--	--	--
8+25S 1+25W	214	0.2	--	--	--	--	--	--
8+50S 0+00W	214	0.5	--	--	--	--	--	--
8+75S 0+00W	214	0.4	--	--	--	--	--	--
9+00S 0+25E	214	0.5	--	--	--	--	--	--
9+00S 0+50E	214	0.5	--	--	--	--	--	--
9+00S 1+50E	214	0.2	--	--	--	--	--	--
9+00S 3+00E	214	0.1	--	--	--	--	--	--
9+00S 0+00W	214	0.2	--	--	--	--	--	--
9+00S 0+25W	214	0.1	--	--	--	--	--	--
9+00S 0+50W	214	0.1	--	--	--	--	--	--
9+00S 0+75W	214	0.1	--	--	--	--	--	--
9+00S 1+00W	214	0.2	--	--	--	--	--	--
9+00S 1+25W	214	0.1	--	--	--	--	--	--
9+00S 1+50W	214	0.1	--	--	--	--	--	--
9+00S 1+75W	214	0.2	--	--	--	--	--	--
9+00S 2+00W	214	0.1	--	--	--	--	--	--
9+00S 2+25W	214	0.1	--	--	--	--	--	--
9+25S 0+00E	214	0.1	--	--	--	--	--	--
9+50S 0+00E	214	0.1	--	--	--	--	--	--
9+75S 0+25E	214	0.1	--	--	--	--	--	--
9+75S 0+50E	214	0.2	--	--	--	--	--	--
9+75S 0+75E	214	0.1	--	--	--	--	--	--
9+75S 1+00E	214	0.2	--	--	--	--	--	--
9+75S 1+25E	214	0.1	--	--	--	--	--	--
9+75S 0+25W	214	0.1	--	--	--	--	--	--
9+75S 0+50W	214	0.1	--	--	--	--	--	--
9+75S 0+75W	214	0.1	--	--	--	--	--	--
9+75S 1+00W	214	0.1	--	--	--	--	--	--
9+75S 1+25W	214	0.1	--	--	--	--	--	--
9+75S 1+50W	214	0.1	--	--	--	--	--	--
9+75S 1+75W	214	0.1	--	--	--	--	--	--
9+75S 2+00W	214	0.1	--	--	--	--	--	--
9+75S 2+25W	214	0.2	--	--	--	--	--	--

*Hart Buchler*

Certified by .....



MEMBER  
CANADIAN TESTING  
ASSOCIATION



# CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
NORTH VANCOUVER, B.C.  
CANADA V7J 2C1  
TELEPHONE. (604) 984-0221  
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

TO : STEPHEN, J.C. EXPLORATION LIMITED

1458 RUPERT STREET  
NORTH VANCOUVER, B.C.  
V7J 1E9

CERT. # : A8412605-003-A  
INVOICE # : 18412605  
DATE : 26-JUN-84  
P.O. # : NONE  
EASY(FALCON BRIDGE)

Sample description	Prep code	TI ppm						
9+75S 2+50W	214	0.1	--	--	--	--	--	--
9+75S 2+75W	214	0.1	--	--	--	--	--	--
10+00S 0+00E	214	0.1	--	--	--	--	--	--
10+25S 0+00E	214	0.1	--	--	--	--	--	--
10+50S 0+00E	214	0.1	--	--	--	--	--	--
10+50S 0+25E	214	0.1	--	--	--	--	--	--
10+50S 0+50E	214	0.5	--	--	--	--	--	--
10+50S 0+75E	214	0.5	--	--	--	--	--	--
10+50S 1+00E	214	0.8	--	--	--	--	--	--
10+50S 1+25E	214	0.6	--	--	--	--	--	--
84 EAR 01	214	0.1	--	--	--	--	--	--
84 EAR 02	214	0.1	--	--	--	--	--	--
84 EAR 03	214	0.3	--	--	--	--	--	--
84 EAR 04	214	1.5	--	--	--	--	--	--
84 EAR 05	214	0.4	--	--	--	--	--	--
84 EAR 06	214	0.4	--	--	--	--	--	--
84 EAR 07	214	0.1	--	--	--	--	--	--
84 EAR 08	214	0.4	--	--	--	--	--	--
84 EAR 09	214	0.4	--	--	--	--	--	--
84 EAR 10	214	0.1	--	--	--	--	--	--
84 EAR 11	214	0.1	--	--	--	--	--	--
84 EAR 12	214	0.4	--	--	--	--	--	--
84 EAR 13	214	0.5	--	--	--	--	--	--
84 EAR 14	214	0.5	--	--	--	--	--	--
84 EAR 15	214	1.4	--	--	--	--	--	--
84 EAR 16	214	0.6	--	--	--	--	--	--
84 EAR 17	214	0.4	--	--	--	--	--	--
84 EAR 18	214	0.7	--	--	--	--	--	--
84 EAR 19	214	0.2	--	--	--	--	--	--
84 EAR 20	214	0.5	--	--	--	--	--	--
84 EAR 21	214	0.2	--	--	--	--	--	--
84 EAR 22	214	0.2	--	--	--	--	--	--
84 EAR 23	214	0.1	--	--	--	--	--	--
84 EAR 24	214	0.1	--	--	--	--	--	--
84 EAR 25	214	0.6	--	--	--	--	--	--
84 EAR 26	214	0.4	--	--	--	--	--	--
84 EAR 27	214	0.1	--	--	--	--	--	--
84 EAR 28	214	0.2	--	--	--	--	--	--
84 EAR 29	214	0.2	--	--	--	--	--	--
84 EAR 30	214	0.1	--	--	--	--	--	--



MEMBER  
CANADIAN TESTING  
ASSOCIATION

Certified by *Hart Buchler* .....



# CHEMEX LABS LTD.

212 BROOKSBANK AVE.  
NORTH VANCOUVER, B.C.  
CANADA V7J 2C1

TELEPHONE: (604) 984-0221  
TELEX: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

## CERTIFICATE OF ANALYSIS

TO : STEPHEN, J.C. EXPLORATION LIMITED

1458 RUPERT STREET  
NORTH VANCOUVER, B.C.  
V7J 1E9

CERT. # : A8412605-004-A  
INVOICE # : I8412605  
DATE : 26-JUN-84  
P.O. # : NONE  
EASY (FALCON BRIDGE)

Sample description	Prep code	Tl ppm						
84 EAR 31	214	0.2	--	--	--	--	--	--
84 EAR 32	214	0.1	--	--	--	--	--	--
84 EAR 33	214	0.1	--	--	--	--	--	--
84 EAR 34	214	0.1	--	--	--	--	--	--
84 EAR 35	214	0.1	--	--	--	--	--	--
84 EAR 36	214	0.1	--	--	--	--	--	--
84 EAR 37	214	0.1	--	--	--	--	--	--
84 EAR 38	214	0.1	--	--	--	--	--	--
84 EAR 39	214	0.1	--	--	--	--	--	--
84 EAR 40	214	0.2	--	--	--	--	--	--
84 EAR 41	214	0.1	--	--	--	--	--	--
84 EAR 42	214	0.1	--	--	--	--	--	--
84 EAR 43	214	0.1	--	--	--	--	--	--
84 EAR 44	214	0.1	--	--	--	--	--	--
84 EAR 45	214	1.5	--	--	--	--	--	--
84 EAR 46	214	0.5	--	--	--	--	--	--
84 ECR 01	214	0.1	--	--	--	--	--	--
84 ECR 02	214	0.1	--	--	--	--	--	--
84 ECR 03	214	0.2	--	--	--	--	--	--
84 ECR 04	214	0.1	--	--	--	--	--	--
84 ECR 05	214	0.1	--	--	--	--	--	--



MEMBER  
CANADIAN TESTING  
ASSOCIATION

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A P P E N D I X I I I

STATEMENTS OF QUALIFICATIONS

## STATEMENT OF QUALIFICATIONS

AUDREY E. HEAGY

### ACADEMIC

1981 Graduated from Queen's University at Kingston Ontario.  
B.Sc. Honors Geology, First Class  
Medalist in Geological Sciences

### EXPERIENCE

1979 Assistant geologist on traverse, drafting, cooking  
Ontario Geological Survey

1980 Detailed geological mapping, reconnaissance, prospecting  
and sampling on Queen Charlotte Islands, Vancouver Island  
J.C. Stephen Explorations Ltd.

1981 Reconnaissance exploration, primarily for tungsten, also  
1982 molybdenum and base metals, northern B.C. and Yukon  
Amax Mineral Exploration Ltd.

1983 Petrographic descriptions, data compilation and minor research  
related to tungsten, tin and molybdenum deposits in Canada  
Geological Survey of Canada

May  
1983 to Present - Reconnaissance exploration for precious metals in  
the Cassiar district, B.C.  
J.C. Stephen Explorations Ltd.

STATEMENT OF QUALIFICATIONS

J.C. STEPHEN

Academic

1950 Associate Member British Institute Engineering Technology  
1950-1951 One year Geology University of Alberta

Experience Summary

1947-1955 Development and production experience in engineering and geology at Central Patricia Gold Mines, Eldorado Mining and Refining, Madsen Gold Mines, Hasaga Gold Mines, Pickle Crow Gold Mines as Surveyor, Assistant to the Engineer, Geologist.

1955-1959 Regional exploration experience with Pickle Crow Gold Mines, Combined Developments Ltd., R.G. Crosby and Associates, Jay-Kay Syndicate as Field Geologist.

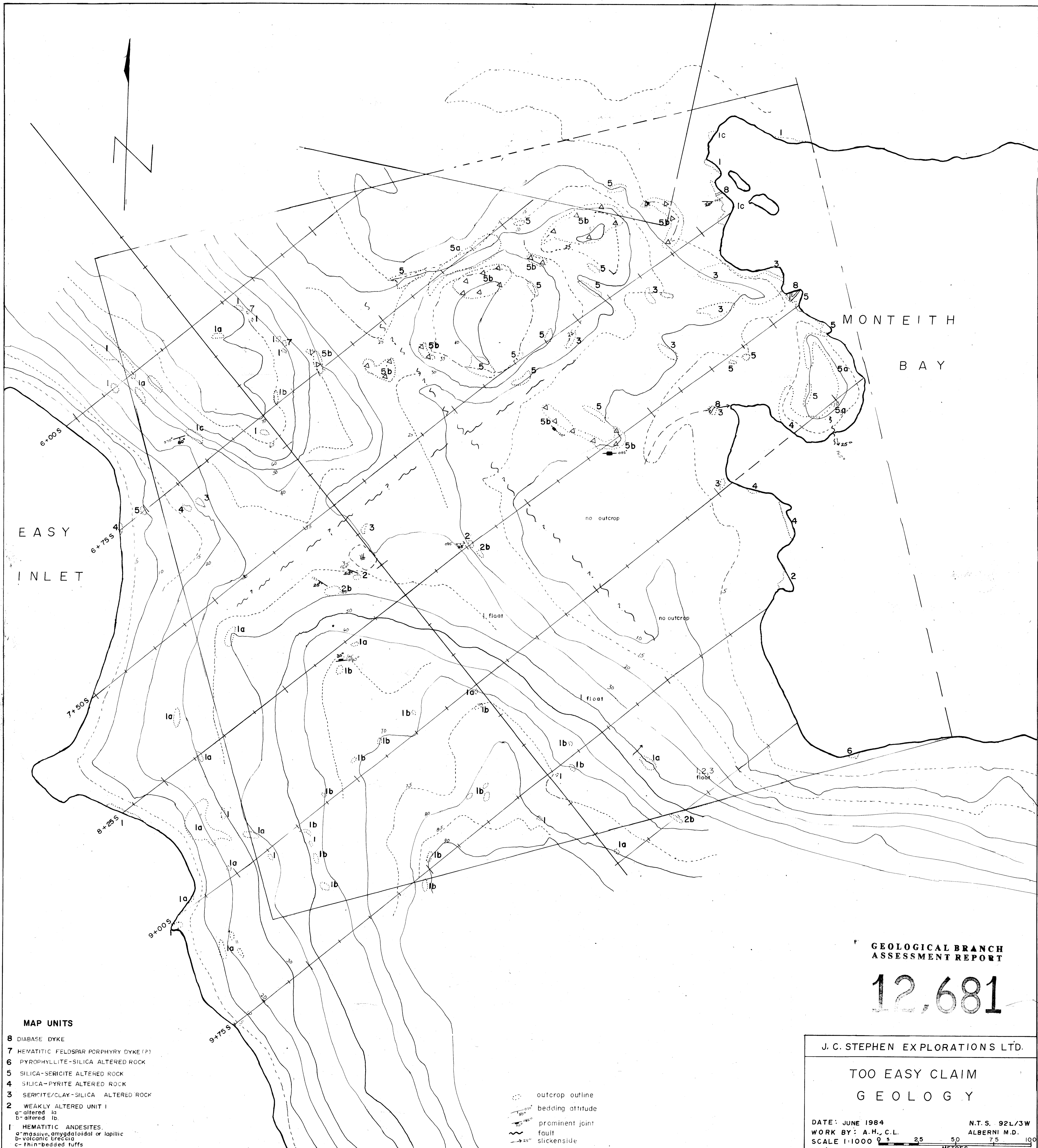
1959-1961 Municipal construction including monolithic concrete tunnels as Senior Inspector.

1962-1968 Regional exploration with Mastodon Highland Bell Mines as field geologist.

1968-1976 Regional exploration with Bacon and Crowhurst Ltd., as supervisor of exploration syndicates.

1977-Present President J.C. Stephen Explorations Ltd.  
Management of various exploration syndicates. B.C. and Yukon





EASY  
INLET

MONTEITH  
BAY

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

12,681

J. C. STEPHEN EXPLORATIONS LTD.

TOO EASY CLAIM  
GEOLOGY

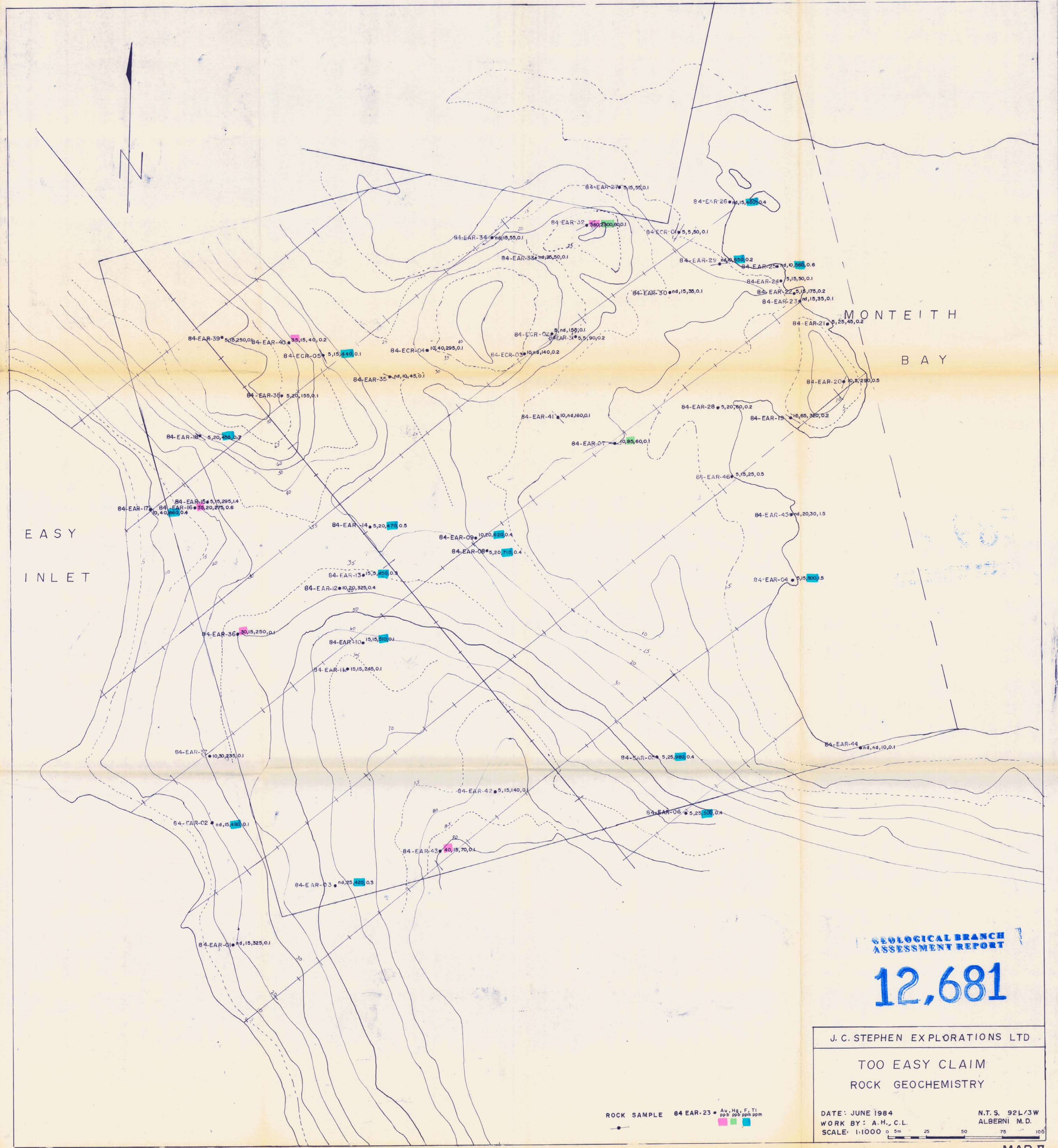
DATE: JUNE 1984  
WORK BY: A.H., C.L.  
SCALE 1:1000 0 25 50 75 100 METRES

MAP I

- MAP UNITS**
- 8 DIABASE DYKE
  - 7 HEMATITIC FELDSPAR PORPHYRY DYKE (P)
  - 6 PYROPHYLLITE-SILICA ALTERED ROCK
  - 5 SILICA-SERICITE ALTERED ROCK
  - 4 SILICA-PYRITE ALTERED ROCK
  - 3 SERICITE/CLAY-SILICA ALTERED ROCK
  - 2 WEAKLY ALTERED UNIT I
    - a- altered la
    - b- altered lb
  - 1 HEMATITIC ANDESITES.
    - a- massive, amygdaloidal or lapillic
    - b- volcanic breccia
    - c- thin-bedded tuffs

- outcrop outline
- bedding attitude
- prominent joint
- fault
- slickenside





EASY  
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ASSESSMENT REPORT

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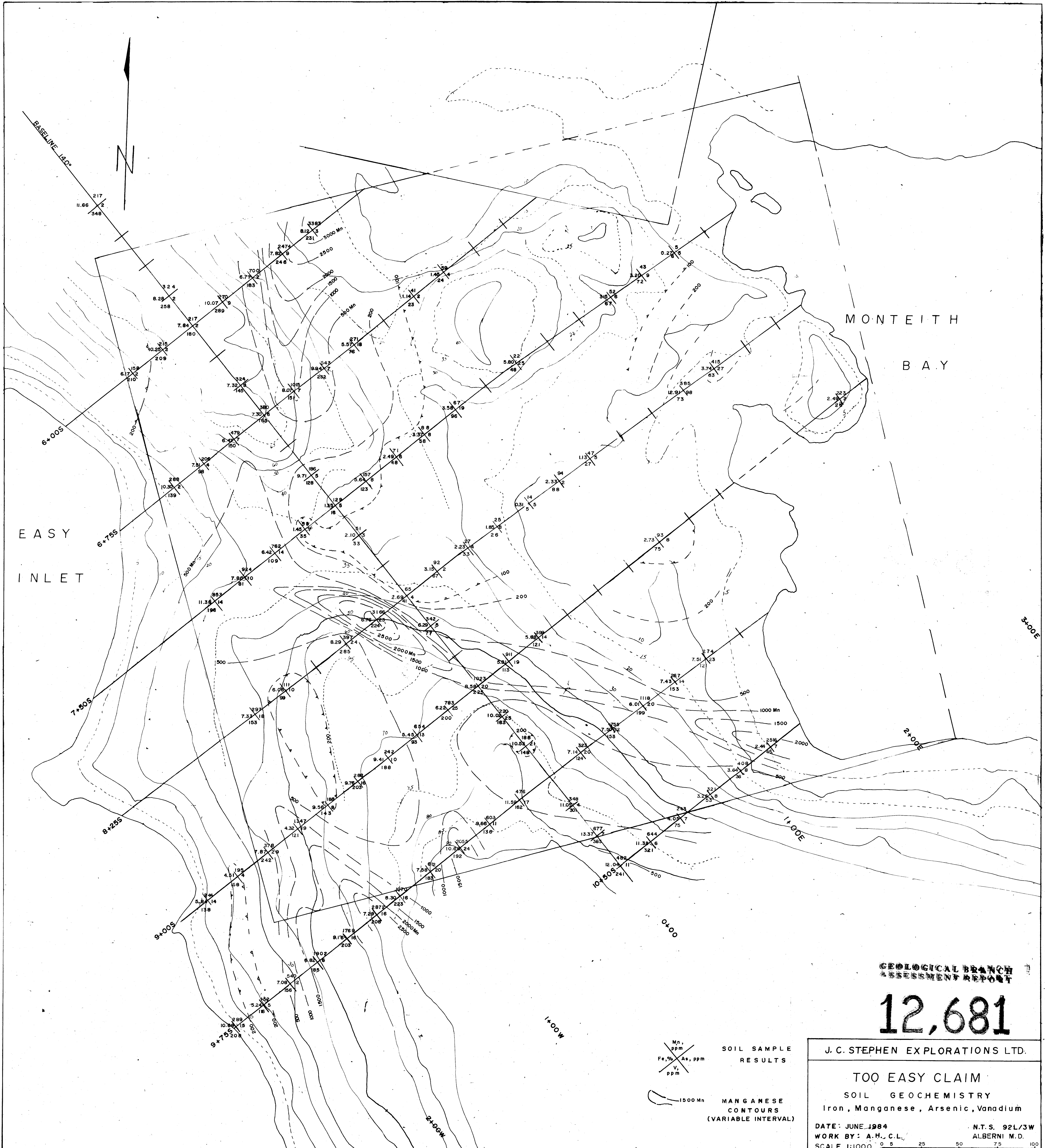
TOO EASY CLAIM  
ROCK GEOCHEMISTRY

ROCK SAMPLE 84-EAR-23 • Au, Hg, F, Tl  
ppb ppb ppm ppm

DATE: JUNE 1984  
WORK BY: A.H., C.L.  
SCALE: 1:1000 0 5m 25 50 75 100

N.T.S. 92L/3W  
ALBERNI M.D.

MAP II



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**12,681**

J. C. STEPHEN EXPLORATIONS LTD.

TOO EASY CLAIM  
SOIL GEOCHEMISTRY  
Iron, Manganese, Arsenic, Vanadium

DATE: JUNE 1984  
WORK BY: A.H.C.L.  
SCALE 1:1000

N.T.S. 92L/3W  
ALBERNI M.D.

SOIL SAMPLE RESULTS

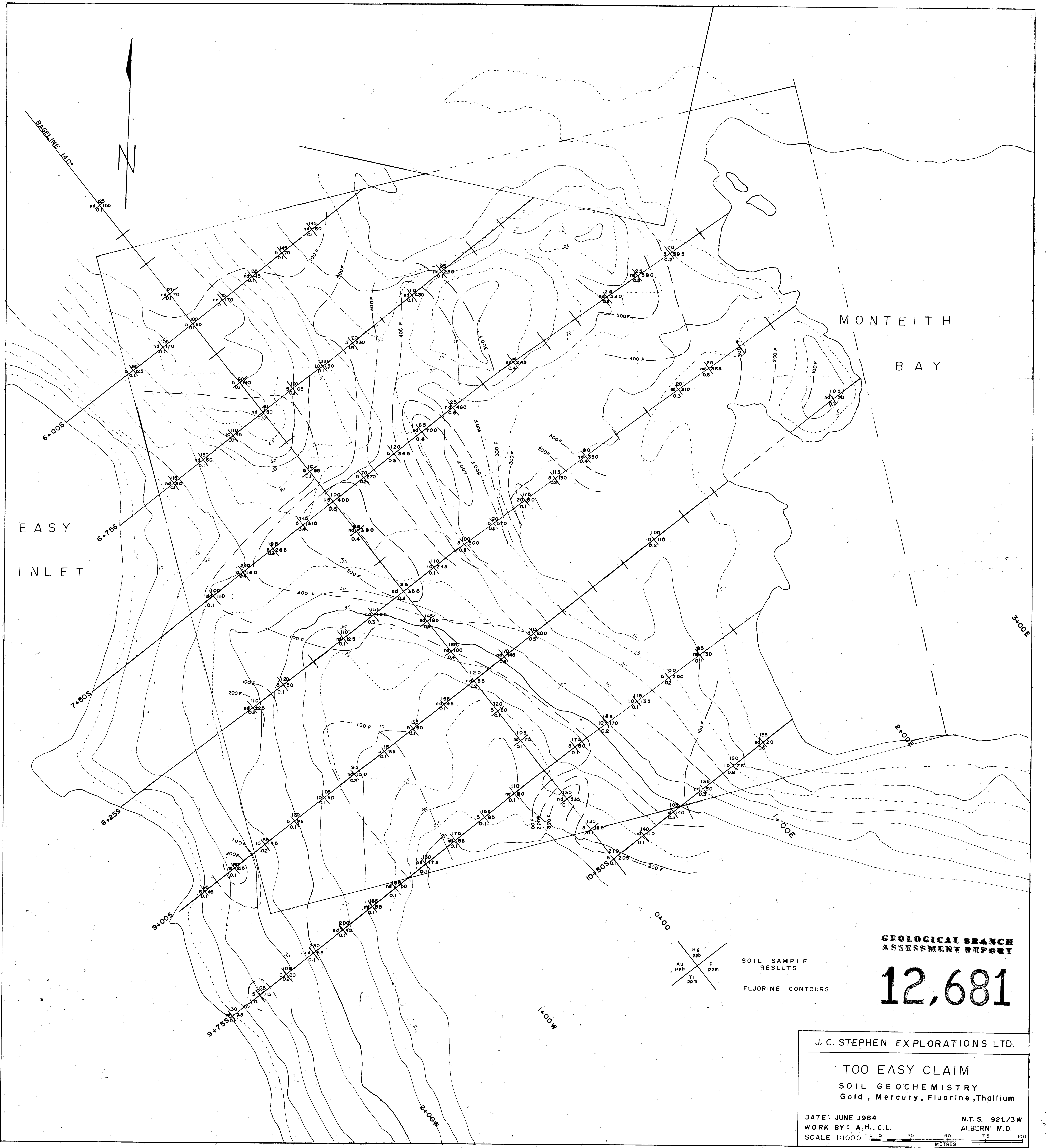
Mn, ppm  
Fe, %  
As, ppm  
V, ppm

MANGANESE CONTOURS (VARIABLE INTERVAL)

1500 Mn

0 5 25 50 75 100 METRES

MAP III



MONTEITH  
BAY

EASY  
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**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**12,681**

Hg  
ppb  
Au  
ppb  
Tl  
ppm  
F  
ppm

SOIL SAMPLE  
RESULTS

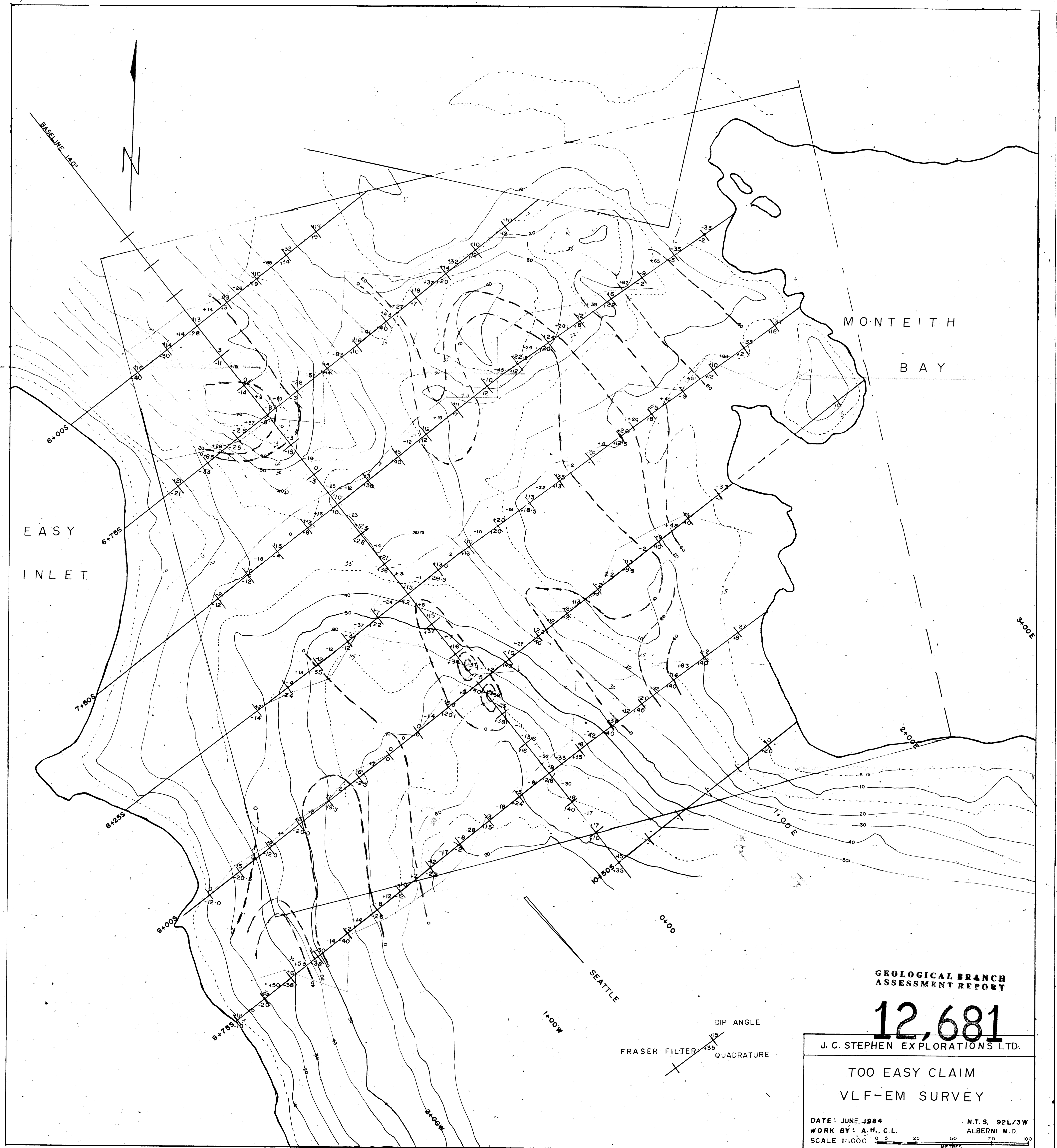
FLUORINE CONTOURS

J. C. STEPHEN EXPLORATIONS LTD.

TOO EASY CLAIM  
SOIL GEOCHEMISTRY  
Gold, Mercury, Fluorine, Thallium

DATE: JUNE 1984  
WORK BY: A.H., C.L.  
SCALE 1:1000

N.T.S. 92L/3W  
ALBERNI M.D.  
METRES



MONTEITH  
BAY

EASY  
INLET

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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J. C. STEPHEN EXPLORATIONS LTD.

TOO EASY CLAIM  
VLF-EM SURVEY

DATE: JUNE 1984  
WORK BY: A.H., C.L.  
SCALE 1:1000

N.T.S. 92L/3W  
ALBERNI M.D.



DIP ANGLE

FRASER FILTER QUADRATURE