

LOG NO: 081

RD.

ACTION:

FILE NO:

Geological and Geophysical

Report

on the

Julia Claim

FILMED

Nanaimo Mining Division - British Columbia

Latitude: 49° 59' N Longitude: 125° 38' W
N.T.S. 92F/13E

Mineral Claim: Julia Record #: 2665

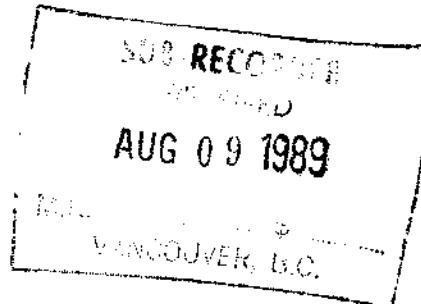
Owner: Mr. M. Sawiuk

Prepared by

Douglas J. Brownlee, P. Geol. (Alberta)

July 5, 1989

Vancouver, British Columbia



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

18,947

T A B L E O F C O N T E N T S

	Page
Summary and Conclusions	1
Introduction	1
Location and Access	1
Claim Data	2
History	2
Work Program	2
Geology	3
Steller Showing Geology	3
V.L.F. E.M. Survey	4
Magnetometer Survey	4
References	5
Statement of Qualifications	5

F I G U R E S

	After Page
Figure 1	Location Map
Figure 2	Claim & Access Map
Figure 3	Geology Map
Figure 4	Geology Map, Steller Showing
Figure 5	V.L.F. E.M. Profile Map
Figure 6	Magnetometer Profile Map
Figure 7	Magnetometer Contour Map

A P P E N D I C E S

Appendix 1	V.L.F. E.M. and Magnetic Data
Appendix 2	Statement of Costs

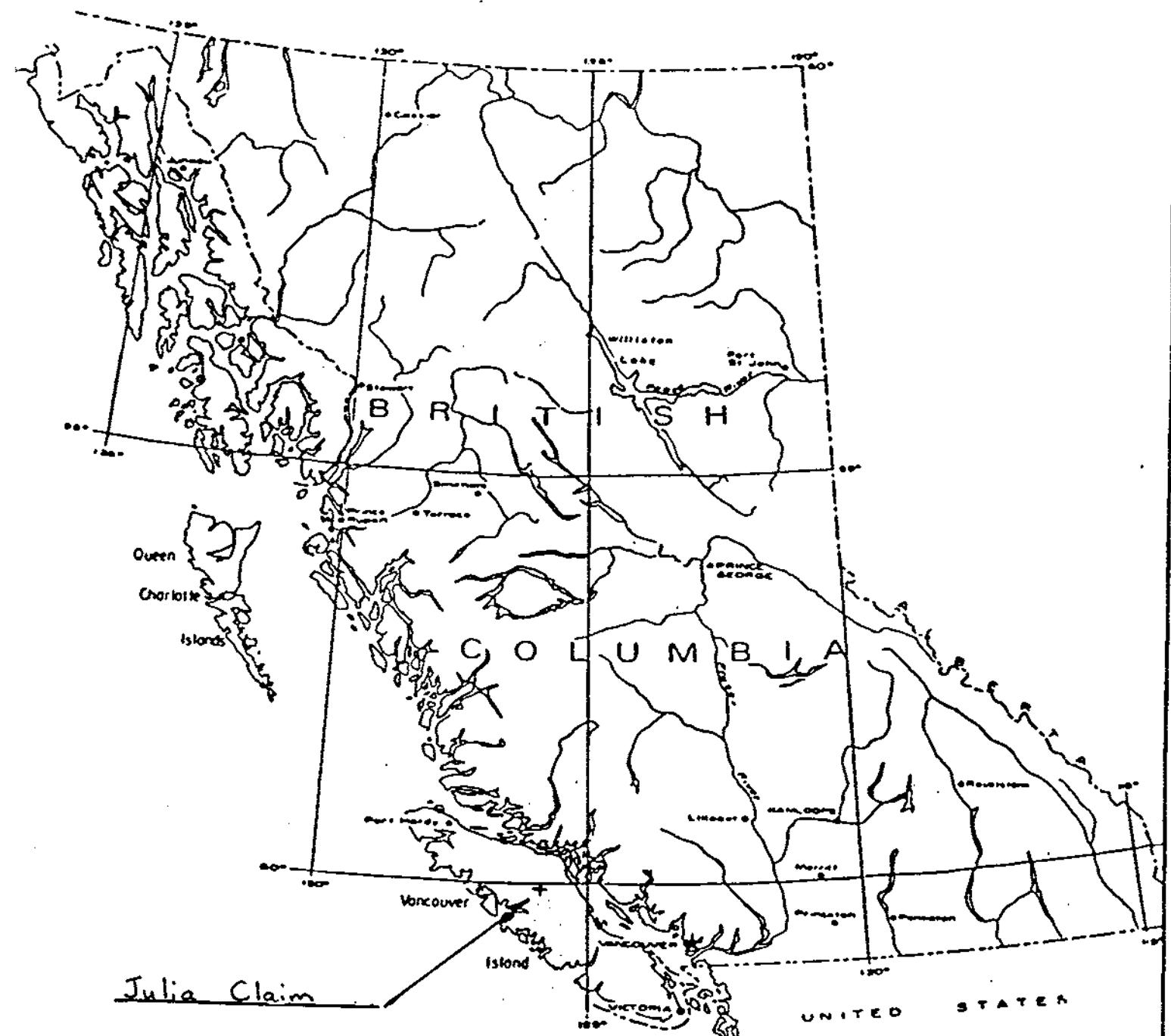
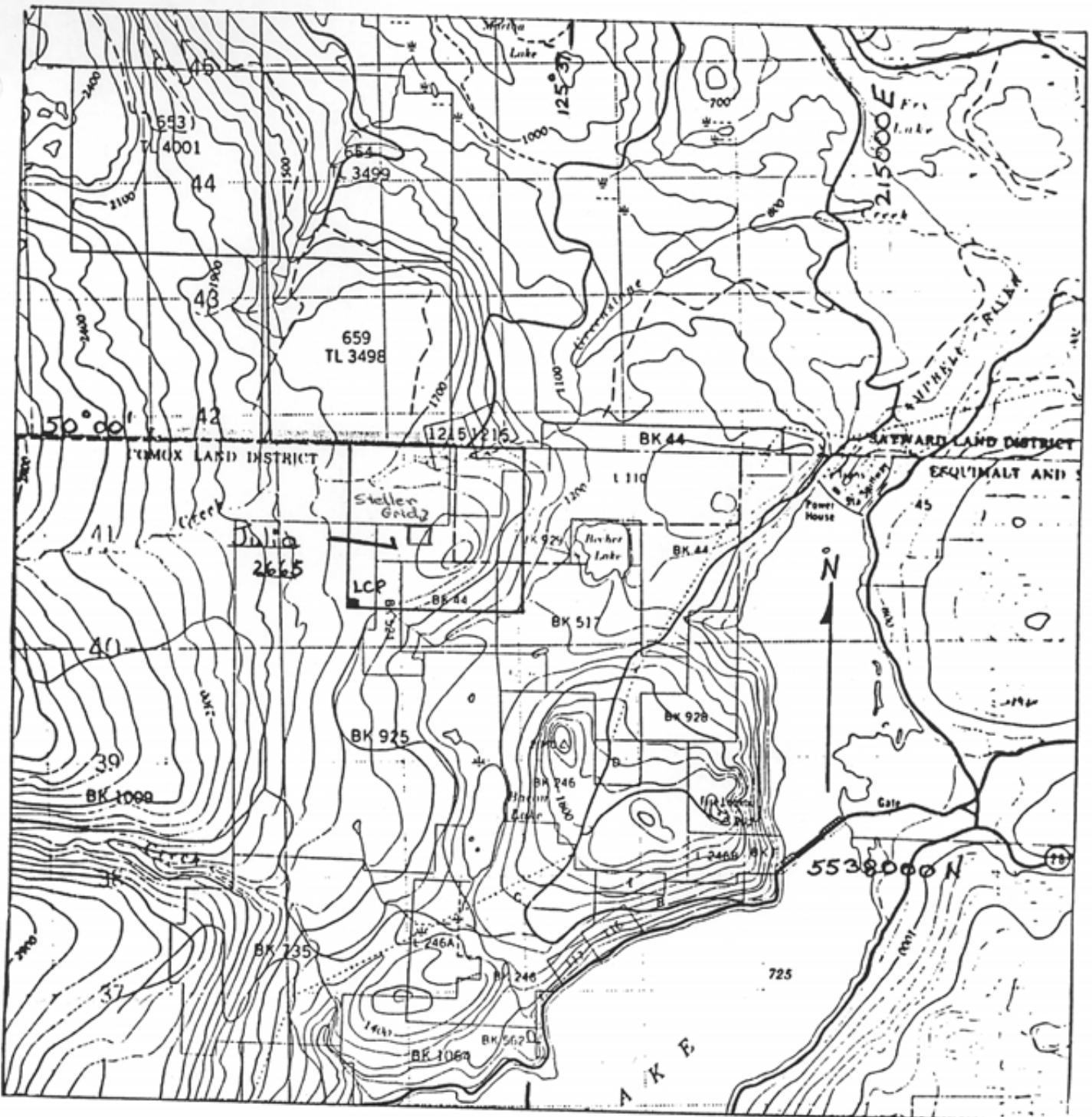


FIGURE 1

LOCATION MAP

SCALE
KM 100 200 300 400 KM



GUERRA EXPLORATIONS LTD.			
ACCESS AND CLAIM MAP JULIA CLAIM			
Scale 1:50,000 NTS 92 F13, K4	Author DRAWN BY M.S. MS.	Date SPR 45/89	FIGURE 2

Claim Data

The property consists of one 4-post mineral claim called the Julia and is 9 units in size. The claim is recorded at the Nanaimo Mining Division Office under record number 2665.

The owner of record is Mr. M. Sawiuk of Vancouver, B.C. (Figure 2).

History

Magnetite bearing skarns located immediately north and south of the Julia claim area were first discovered in the early 1950's. Argonaut Mines Ltd. conducted a magnetometer survey and drill tested the southern skarn on the Bacon property during the mid to late 1950's. Georgia Mines Ltd. conducted airborne geophysical and ground geochemical surveys over the Greenstone Creek showing in 1969.

The area covered by the Julia claim has apparently never been worked and the recent interest in the area is the result of sulphide mineralization being exposed during road construction and discovered on May 2nd, 1989. This showing is now called the Steller showing.

Work Program

A four day exploration program consisting of laying out 1.7 line kilometres of grid by hip chain and compass, followed by geological mapping, V.L.F. E.M. and magnetometer surveys at 25 metre measurement intervals.

This work program was conducted by R. Gosse, Geologist from May 4th to 7th, 1989.

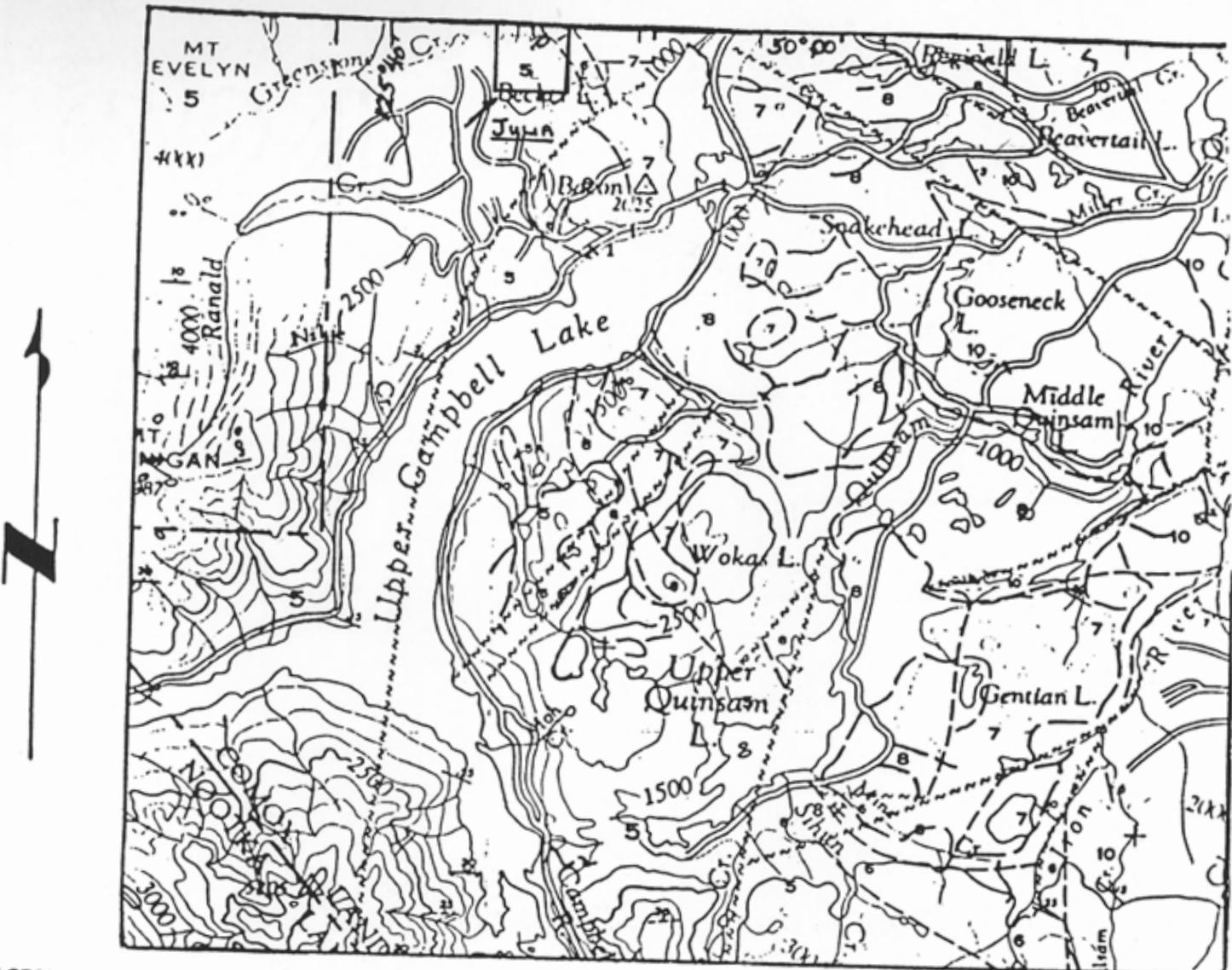
Geology

The property is underlain by Upper Triassic limestone and calcareous shales of the Quatsino Formation. Overlying this unit is Triassic and/or Jurassic tuff, andesitic volcanic breccia and flows with interbeds of argillite, siltstone and limestone. These units are intruded by Jurassic and/or Cretaceous granodiorite, quartz diorite and gabbro of the Coast Intrusions (Figure 3).

Steller Showing Geology

The Steller showing is associated with the intrusion of a medium to coarse grained diorite with associated coarse grained magnetic gabbroic regions. These intrude a fine grained moderately silicified andesitic lava, which is bleached in areas and cut by epidote plus calcite veinlets (Figure 4).

The mineralization occurs in a silicified-carbonate shear structure occurring within a 6 metre wide rusty orange zone. The structure is enveloped in a 10-15 metre wide zone of prominent chlorite/magnetite replacement occurring as kidney shapes and amoeboid blobs in the host rock.



CRETACEOUS

UPPER CRETACEOUS

NANAIMO GROUP (9 - 11)

10 COMOX FORMATION: sandstone, pebbly sandstone; minor conglomerate, shale, coal

JURASSIC AND (?) CRETACEOUS

COAST INTRUSIONS

8 Granodiorite; minor quartz diorite

TRIASSIC AND (?) JURASSIC

7 VANCOUVER GROUP (5 - 7)

Tuff, andesitic volcanic breccia and lava; argillite, siltstone; includes some rocks of unit 6

TRIASSIC

UPPER TRIASSIC

6 Limestone, calcareous shale; skarn near intrusive contacts

5 Massive, partly amygdaloidal, basalt, pillow basalt, pillow breccia; minor tuff, volcanic breccia

5A: Limestone, calcareous siltstone, shale, interbedded in 5

logical boundary, approximate

Bedding (horizontal, inclined, overturned)

Bedding (observed from distance or from air photos)

Schistosity

Fault, assumed

GUERRA EXPLORATION LTD.

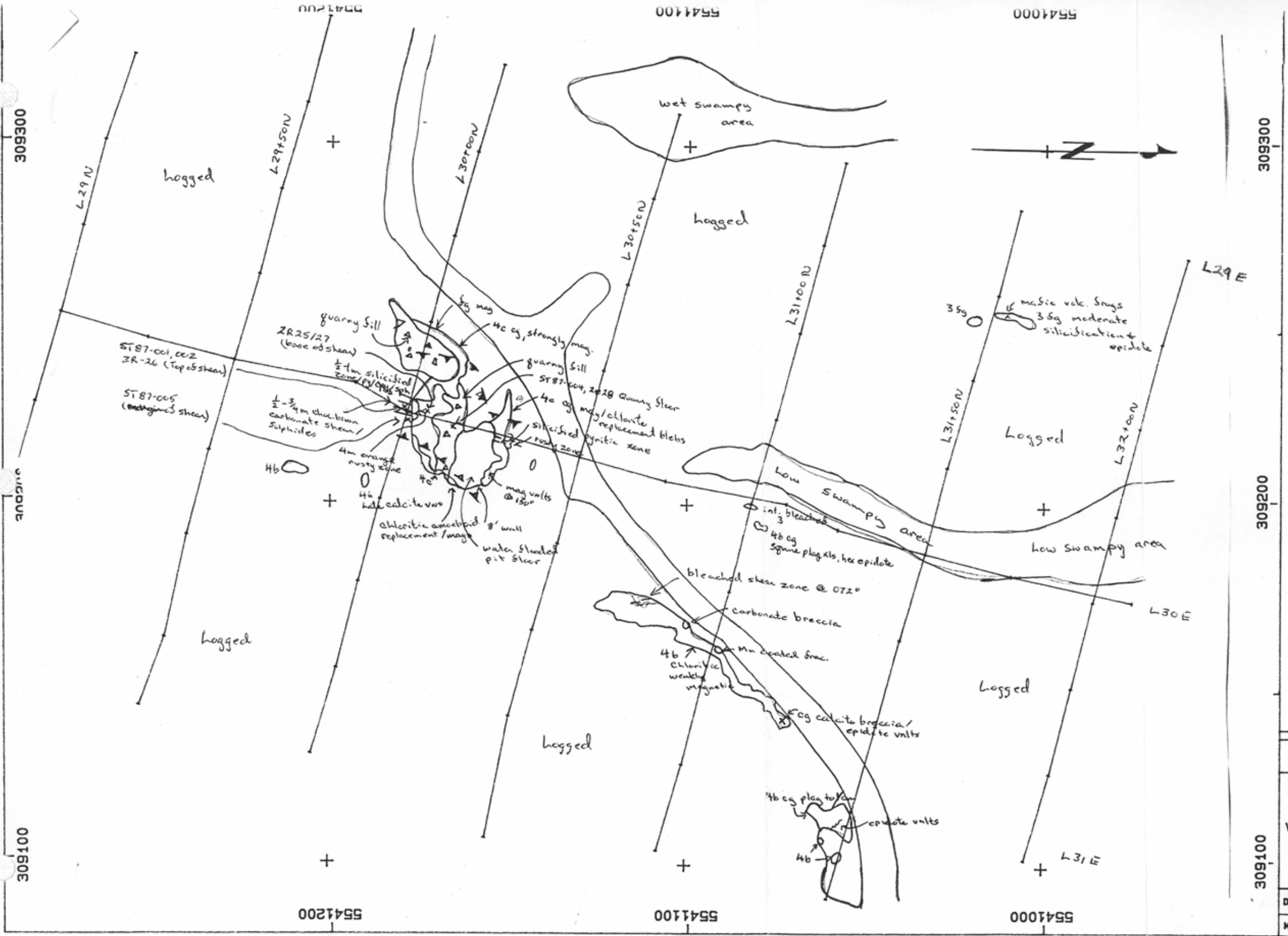
GEOLOGY MAP

JULIA CLAIM

NANAIMO M.D. 92F 13

July 5/89 DRAWN BY MS. FIG 3

After J.E. Muller 1964 Map 2-1965



LEGEND

- JURASSIC (?)

 - 5 Andesitic dyke

JURASSIC & CRETACEOUS (?)

 - 4a Granodiorite
 - b Diorite
 - c gabbro

TRIASSIC & JURASSIC (?)

 - Vancouver Group
 - upper triassic
 - Bonanza Formation
 - 3 Andesitic tuff,
volc breccia. la

Quatsino Formation

 - 2 Limestone. calc.
shale

Karmutsen Formation

 - 1 Massiye, partly
amygdaloidal and
pillow basalt

SYMBOLS

Replacement
magnetite +/-
chlorite alt.

py	pyrite
mag	magnetite
cpx	chalcopyrite
sph	sphalerite
sg	Fine grained
cg	coarse grained
T 87-001	sample sites

ST 27-001 Sample sites
ZR 28 (see 1988 report)

D.J.B. SERVICES Ltd

GEOLOGY MAP, STELLER G.
JULIA CLAIM

Vancouver Island B.C. N.T.S. 921

Scale 1: 1000.0

Digitized by srujanika@gmail.com

— 1 —

Date: 05/07/09 Drwn by: DJB File #:

Muhsin Associates Computer Consultants

V.L.M. E.M. Survey

A total of 1.4 line kilometres of grid was run with readings taken every 25 metres, utilizing a Sabre Model 15 V.L.F. E.M. receiver tuned to Seattle, Washington.

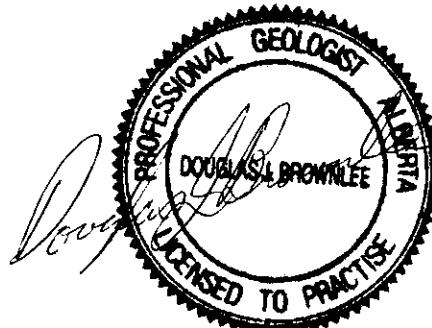
The VLF-EM dip data was filtered by a technique, described by D.C. Fraser in 1969 (Geophysics, V.34; No. 6; pp. 958-967). The dip, field strength and fraser filter data is presented in profile format on Figure 5.

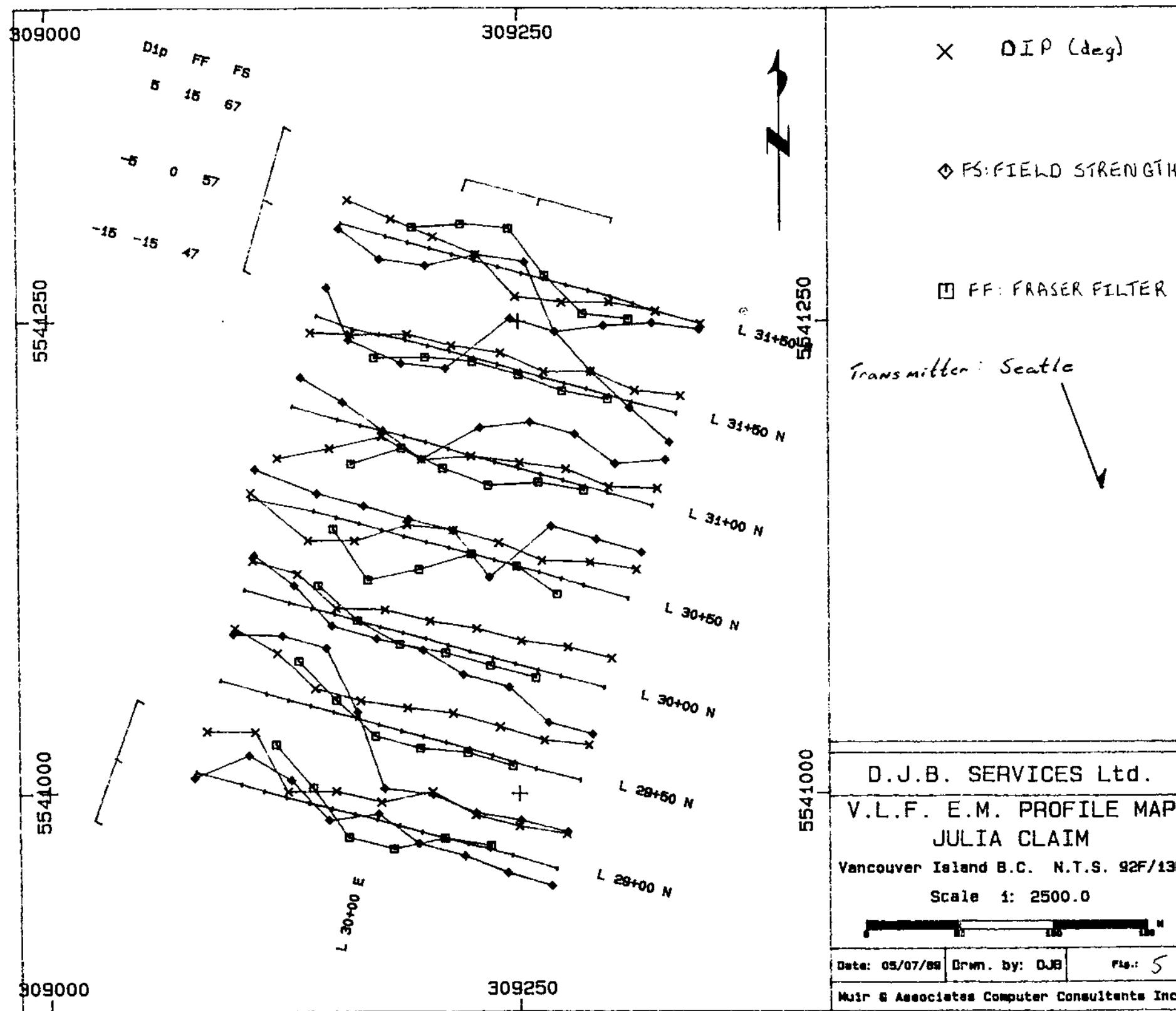
The V.L.F. E.M. data shows a northerly trending conductor offset approximately 75 metres to the west of the Steller shear zone. This may be the signature of a subparallel conductive structure.

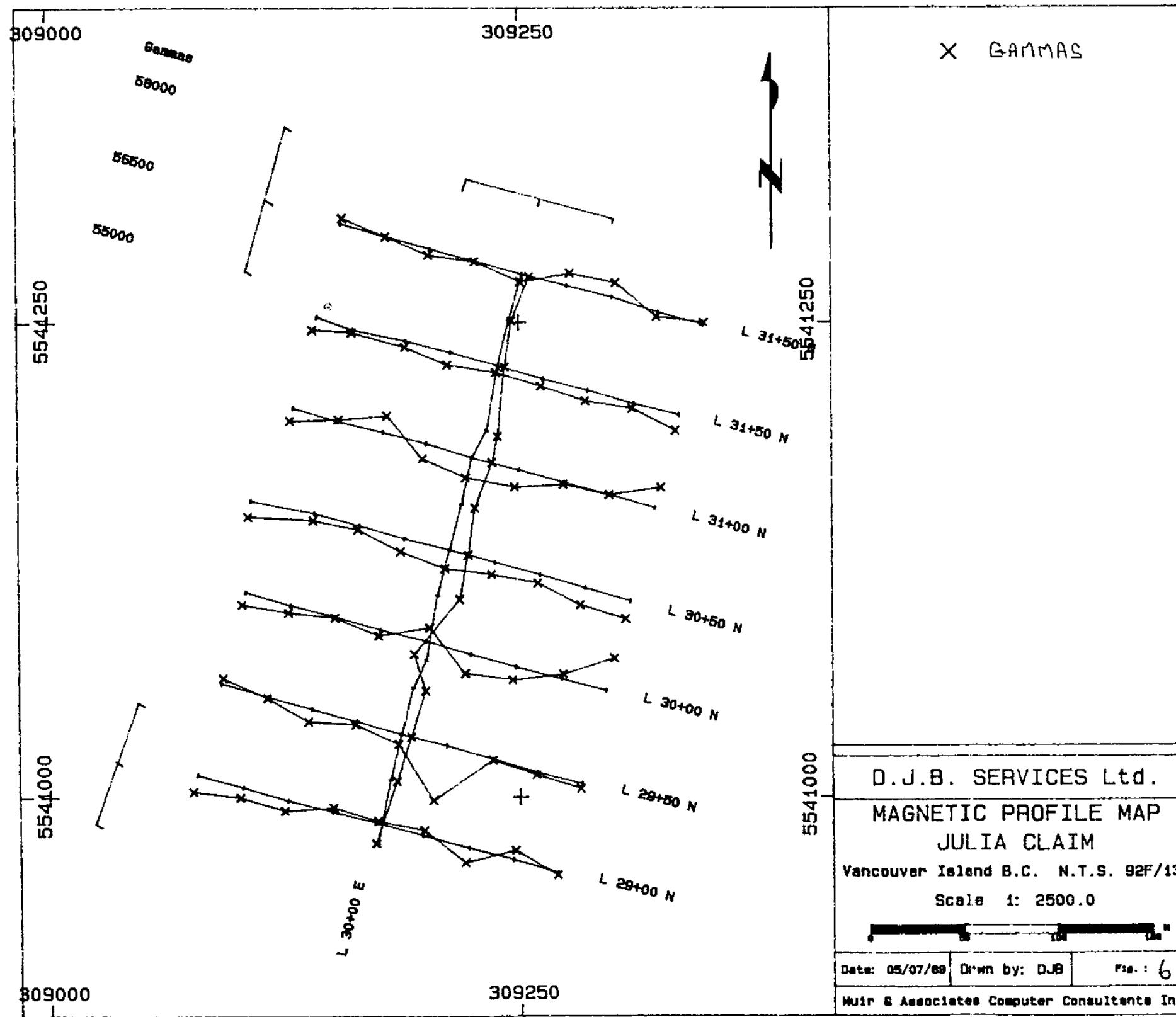
Magnetometer Survey

A total of 1.7 line kilometres of magnetic readings were collected using a Scintrex MP 1 proton magnetometer. The magnetic data was corrected for diurnal variation by reading the baseline twice and then correcting for diurnal variation and averaging the results. All other lines were looped off the baseline; corrected back to the baseline level and for diurnal variation. The resulting data is presented in profile and contoured formats on Figures 6 and 7.

The magnetic data shows a 400 gamma high at the Steller showing (based on an average background of 56400 gammas) flanked to the east by a northtrending linear magnetic low. This magnetic linear low is interpreted as being the signature of the shear zone which hosts the Steller showing.



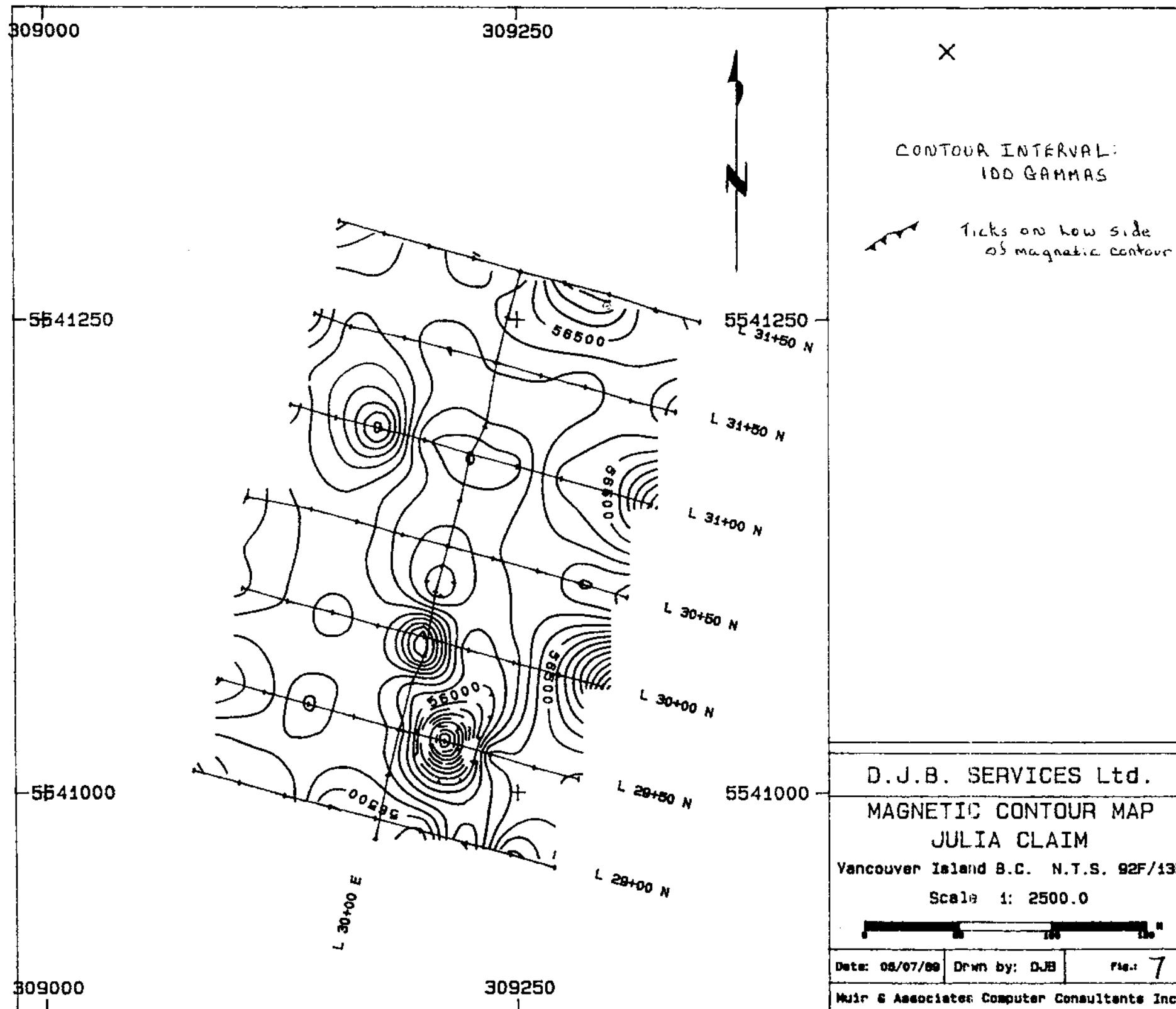




D.J.B. SERVICES Ltd.
MAGNETIC PROFILE MAP
JULIA CLAIM
Vancouver Island B.C. N.T.S. 92F/13E
Scale 1: 2500.0

Date: 05/07/88 Drawn by: DJB File: 6

Muir & Associates Computer Consultants Inc.



R E F E R E N C E S

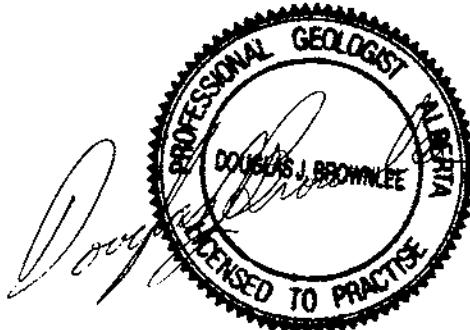
- Brownlee, D.J.** Preliminary Reconnaissance and Lithogeochemical Survey of the Julia Claim; Assessment Report, April 25, 1988
- Muller, J.E.** G.S.C. Map 2-1965, Comox Lake Area Open Files Selected company reports, B.C. Ministry of Energy Mines and Petroleum Resources, Geological Division, Open Files 92F.

Statement of Qualifications

I, Douglas J. Brownlee, do hereby certify that:

1. I reside at #101 - 2615 Lonsdale Avenue North Vancouver, British Columbia.
2. I hold a B.Sc. (Spec. Geology) 1980, from the University of Alberta.
3. I am a Professional Geologist licensed by the Association of Professional Engineers, Geologists and Geophysicists of Alberta (1988).
4. I have practised my profession as a geologist since 1980.
5. That this report is based upon a exploration program conducted by R. Gosse, Geologist, on the Julia claim from May 4th to 7th, 1989. Also, on personal examination of the property.

Douglas J. Brownlee
P. Geol. (Alberta)



Appendix I
V.L.F. E.M. and Magnetic Data

V.L.F. E.M. and Magnetic Data

Magnetic Data

UTM

Easting	Northing	Grid E.	Grid N	Gammas
309174.00	5540975.00	L30+00E	S29+00N	56547
309181.00	5541009.00	L30+00E	S29+25N	56331
309187.00	5541033.00	L30+00E	S29+50N	56244
309193.50	5541057.50	L30+00E	S29+75N	56186
309200.50	5541072.00	L30+00E	S30+00N	56844
309206.50	5541106.00	L30+00E	S30+25N	55933
309213.00	5541130.00	L30+00E	S30+50N	56021
309219.50	5541154.00	L30+00E	S30+75N	56152
309225.00	5541178.50	L30+00E	S31+00N	55977
309233.00	5541193.00	L30+00E	S31+25N	56186
309239.00	5541227.00	L30+00E	S31+50N	56321
309245.00	5541251.00	L30+00E	S31+75N	56435
309252.00	5541275.00	L30+00E	S32+00N	56310

Grid N Grid E

309078.00	5541011.50	L29+00N	S29+00E	56069
309102.00	5541005.00	L29+00N	S29+25E	56233
309126.00	5540998.00	L29+00N	S29+50E	56229
309150.00	5540992.00	L29+00N	S29+75E	56611
309174.00	5540986.00	L30+00E	S29+00N	56547
309198.00	5540979.50	L29+00N	S30+25E	56632
309222.50	5540973.00	L29+00N	S30+50E	56130
309246.00	5540967.00	L29+00N	S30+75E	56735
309270.00	5540960.00	L29+00N	S31+00E	56444
309091.00	5541060.00	L29+50N	S29+00E	56631
309115.50	5541053.00	L29+50N	S29+25E	56464
309139.00	5541046.50	L29+50N	S29+50E	56173
309163.00	5541040.00	L29+50N	S29+75E	56412
309187.00	5541033.00	L30+00E	S29+50N	56244
309211.00	5541027.00	L29+50N	S30+25E	55095
309235.50	5541020.00	L29+50N	S30+50E	56476
309259.00	5541013.00	L29+50N	S30+75E	56442
309283.00	5541007.00	L29+50N	S31+00E	56381
309104.00	5541108.00	L30+00N	S29+00E	56176
309128.00	5541101.00	L30+00N	S29+25E	56307
309152.00	5541095.00	L30+00N	S29+50E	56470
309176.00	5541088.00	L30+00N	S29+75E	56350
309200.50	5541082.00	L30+00E	S30+00N	56844
309224.00	5541075.00	L30+00N	S30+25E	56002
309248.00	5541068.50	L30+00N	S30+50E	56164
309272.50	5541062.00	L30+00N	S30+75E	56633
309296.00	5541056.00	L30+00N	S31+00E	57334
309107.00	5541156.00	L30+50N	S29+00E	56102
309141.00	5541149.50	L30+50N	S29+25E	56322
309165.00	5541143.00	L30+50N	S29+50E	56390
309189.00	5541136.00	L30+50N	S29+75E	56163
309213.00	5541130.00	L30+00E	S30+50N	56021
309237.00	5541123.50	L30+50N	S30+25E	56184
309261.00	5541117.00	L30+50N	S30+50E	56286
309285.00	5541110.00	L30+50N	S30+75E	56055
309309.00	5541103.00	L30+50N	S31+00E	56040

309130.00	5541205.00	L31+00N	S29+00E	56167
309154.00	5541198.00	L31+00N	S29+25E	56549
309178.00	5541192.00	L31+00N	S29+50E	56924
309201.00	5541186.00	L31+00N	S29+75E	56108
309225.00	5541178.50	L30+00E	S31+00N	55977
309250.00	5541172.00	L31+00N	S30+25E	56068
309274.00	5541165.50	L31+00N	S30+50E	56445
309298.00	5541159.00	L31+00N	S30+75E	56496
309322.00	5541152.00	L31+00N	S31+00E	57033
309143.00	5541253.00	L31+50N	S29+00E	56147
309162.00	5541246.00	L31+50N	S29+25E	56432
309190.50	5541240.00	L31+50N	S29+50E	56345
309214.00	5541234.00	L31+50N	S29+75E	56177
309239.00	5541227.00	L30+00E	S31+50N	56321
309263.00	5541220.00	L31+50N	S30+25E	56314
309287.00	5541214.00	L31+50N	S30+50E	56230
309311.00	5541207.00	L31+50N	S30+75E	56374
309335.00	5541201.00	L31+50N	S31+00E	56103
309156.00	5541302.00	L32+00N	S29+00E	56640
309180.00	5541295.00	L32+00N	S29+25E	56490
309203.50	5541288.50	L32+00N	S29+50E	56336
309227.00	5541282.00	L32+00N	S29+75E	56484
309252.00	5541275.00	L30+00E	S32+00N	56310
309276.00	5541269.00	L32+00N	S30+25E	56815
309300.00	5541263.00	L32+00N	S30+50E	56864
309324.00	5541255.00	L32+00N	S30+75E	56383
309348.00	5541248.50	L32+00N	S31+00E	56556

V.L.F. E.M. Data

UTM								
Easting	Northing	Grid N	Grid E	Dip	Phase	Field	Strength	

12

309078.00	5541011.50	L29+00N	S29+00E	2	5	56	
309102.00	5541005.00	L29+00N	S29+25E	4	4	62	
309126.00	5540998.00	L29+00N	S29+50E	-4	1	60	
309150.00	5540992.00	L29+00N	S29+75E	-2	0	55	
309174.00	5540986.00	L29+00N	S30+00E	-2	1	58	
309198.00	5540979.50	L29+00N	S30+25E	2	1	55	
309222.50	5540973.00	L29+00N	S30+50E	0	1	55	
309246.00	5540967.00	L29+00N	S30+75E	0	0	54	
309270.00	5540960.00	L29+00N	S31+00E	1	0	54	
309091.00	5541060.00	L29+50N	S29+00E	4	3	65	
309115.50	5541053.00	L29+50N	S29+25E	2	2	67	
309139.00	5541046.50	L29+50N	S29+50E	-2	2	67	
309163.00	5541040.00	L29+50N	S29+75E	-2	1	58	
309187.00	5541033.00	L29+50N	S30+00E	-1	1	47	
309211.00	5541027.00	L29+50N	S30+25E	0	0	48	
309235.50	5541020.00	L29+50N	S30+50E	0	0	47	
309259.00	5541013.00	L29+50N	S30+75E	0	0	48	
309283.00	5541007.00	L29+50N	S31+00E	1	0	48	
309104.00	5541108.00	L30+00N	S29+00E	0	0	63	
309128.00	5541101.00	L30+00N	S29+25E	0	1	60	
309152.00	5541095.00	L30+00N	S29+50E	-4	1	55	
309176.00	5541088.00	L30+00N	S29+75E	-2	1	55	
309200.50	5541082.00	L30+00N	S30+00E	-2	0	55	
309224.00	5541075.00	L30+00N	S30+25E	-1	0	53	

309248.00	5541068.50	L30+00N	S30+50E	-1	0	53
309272.50	5541062.00	L30+00N	S30+75E	0	1	49
309296.00	5541056.00	L30+00N	S31+00E	0	0	49
309107.00	5541156.00	L30+50N	S29+00E	-4	0	62
309141.00	5541149.50	L30+50N	S29+25E	-10	0	60
309165.00	5541143.00	L30+50N	S29+50E	-8	0	60
309189.00	5541136.00	L30+50N	S29+75E	-3	0	60
309213.00	5541130.00	L30+50N	S30+00E	-2	0	60
309237.00	5541123.50	L30+50N	S30+25E	-2	0	54
309261.00	5541117.00	L30+50N	S30+50E	-3	0	65
309285.00	5541110.00	L30+50N	S30+75E	-1	0	65
309309.00	5541103.00	L30+50N	S31+00E	0	0	65
309130.00	5541205.00	L31+00N	S29+00E	-14	0	62
309154.00	5541198.00	L31+00N	S29+25E	-10	0	60
309178.00	5541192.00	L31+00N	S29+50E	-6	0	57
309201.00	5541186.00	L31+00N	S29+75E	-8	0	54
309225.00	5541178.50	L31+00N	S30+00E	-5	0	62
309250.00	5541172.00	L31+00N	S30+25E	-4	0	65
309274.00	5541165.50	L31+00N	S30+50E	-3	0	65
309298.00	5541159.00	L31+00N	S30+75E	-4	0	62
309322.00	5541152.00	L31+00N	S31+00E	-2	0	65
309143.00	5541253.00	L31+50N	S29+00E	-8	0	62
309162.00	5541246.00	L31+50N	S29+25E	-6	0	55
309190.50	5541240.00	L31+50N	S29+50E	-4	0	53
309214.00	5541234.00	L31+50N	S29+75E	-4	0	54
309239.00	5541227.00	L31+50N	S30+00E	-3	0	65
309263.00	5541220.00	L31+50N	S30+25E	-4	0	65
309287.00	5541214.00	L31+50N	S30+50E	-2	0	60
309311.00	5541207.00	L31+50N	S30+75E	-3	1	56
309335.00	5541201.00	L31+50N	S31+00E	-2	0	52
309156.00	5541302.00	L32+00N	S29+00E	-1	0	56
309180.00	5541295.00	L32+00N	S29+25E	-2	0	53
309203.50	5541288.50	L32+00N	S29+50E	-3	0	54
309227.00	5541282.00	L32+00N	S29+75E	-4	0	58
309252.00	5541275.00	L32+00N	S30+00E	-9	1	59
309276.00	5541269.00	L32+00N	S30+25E	-8	0	49
309300.00	5541263.00	L32+00N	S30+50E	-6	0	52
309324.00	5541255.00	L32+00N	S30+75E	-5	0	55
309348.00	5541248.50	L32+00N	S31+00E	-5	0	56

**Fraser
Filter**

309114.00	5541001.50	L29+00N	S29+25E	4
309138.00	5540995.00	L29+00N	S29+50E	-6
309162.00	5540989.00	L29+00N	S29+75E	-6
309186.00	5540982.75	L29+00N	S30+00E	0
309210.25	5540976.25	L29+00N	S30+25E	1
309234.25	5540970.00	L29+00N	S30+50E	10
309127.25	5541049.75	L29+50N	S29+25E	3
309151.00	5541043.25	L29+50N	S29+50E	-3
309175.00	5541036.50	L29+50N	S29+75E	-3
309199.00	5541030.00	L29+50N	S30+00E	-1
309223.25	5541023.50	L29+50N	S30+35E	-1
309247.25	5541016.50	L29+50N	S30+50E	6
309140.00	5541098.00	L30+00N	S29+25E	0
309164.00	5541091.50	L30+00N	S29+50E	-3
309188.25	5541085.00	L30+00N	S29+75E	-2

309212.25	5541078.50	L30+00N	S30+00E	-2
309236.00	5541071.75	L30+00N	S30+25E	-2
309260.25	5541065.25	L30+00N	S30+50E	-3
309153.00	5541146.25	L30+50N	S29+25E	-13
309177.00	5541139.50	L30+50N	S29+50E	-7
309201.00	5541133.00	L30+50N	S29+75E	0
309225.00	5541126.75	L30+50N	S30+00E	0
309249.00	5541120.25	L30+50N	S30+25E	-4
309273.00	5541113.50	L30+50N	S30+50E	-10
309166.00	5541195.00	L31+00N	S29+25E	-3
309189.50	5541189.00	L31+00N	S29+50E	-5
309213.00	5541182.25	L31+00N	S29+75E	-6
309237.50	5541175.25	L31+00N	S30+00E	-2
309262.00	5541168.75	L31+00N	S30+25E	-1
309286.00	5541162.25	L31+00N	S30+50E	-6
309176.25	5541243.00	L31+50N	S29+25E	-3
309202.25	5541237.00	L31+50N	S29+50E	-1
309226.50	5541230.50	L31+50N	S29+75E	-1
309251.00	5541223.50	L31+50N	S30+00E	-2
309275.00	5541217.00	L31+50N	S30+25E	-1
309299.00	5541210.50	L31+50N	S30+50E	4
309191.75	5541291.75	L32+00N	S29+25E	8
309215.25	5541285.25	L32+00N	S29+50E	10
309239.50	5541278.50	L32+00N	S29+75E	1
309264.00	5541272.00	L32+00N	S30+00E	-6
309288.00	5541266.00	L32+00N	S30+25E	-4
309312.00	5541259.00	L32+00N	S30+50E	

Appendix II
Statement of Costs

Statement of Costs

Personnel, Mobilization and Fieldwork

R. Gosse, Geologist	4 days @ \$200/day	\$ 800.00
May 4th to 7th, 1989		

Field Expenses

Ferry, 1 vehicle 1 person, 2 trips @ 21.50	43.00
Accommodation 3 nights @ \$40.00/night	120.00
May 4th to 7th, 1989	
Meals 4 mandays @ \$40.00/day	160.00
Vehicle Rental 2 days @ \$75.00/day	150.00
Fuel	50.00
Magnetometer rental 2 days @ \$40.00/day	80.00
VLF-EM Rental 4 days @ \$30.00/day plus \$75.00 prep fee	120.00 75.00

Report

Preparation, drafting, computer & compilation	450.00
--	--------

TOTAL	<u>\$ 2,048.00</u>
--------------	---------------------------