

ARIS SUMMARY SHEET

District Geologist, Victoria

Off Confidential: 89.02.16

ASSESSMENT REPORT 17384

MINING DIVISION: Nanaimo

PROPERTY: Songbird  
LOCATION: LAT 49 12 41 LONG 124 13 28  
UTM 10 5451457 410818  
NTS 092F01E

CLAIM(S): Songbird 1-2  
OPERATOR(S): Expeditor Res. Group  
AUTHOR(S): Taylor, K.J.  
REPORT YEAR: 1988, 25 Pages

COMMODITIES

SEARCHED FOR: Gold, Silver, Copper

GEOLOGICAL

SUMMARY: The property is underlain by Paleozoic Sicker Group volcanics and sediments in fault contact on the west with Upper Triassic basalts and andesites of the Karmutsen Formation. The main mineralized showing comprises quartz-ankerite, pyrite and arsenopyrite localized along a northwest trending fault structure.

WORK

DONE: Geophysical, Physical  
EMGR 7.5 km; VLF  
Map(s) - 1; Scale(s) - 1:5000  
LINE 9.5 km

RELATED

REPORTS: 11926, 15810  
MINFILE: 092F 055

LOG #:	0505	RD.
FILE NO:		

REPORT ON

FILMED

**LINECUTTING AND VLF-EM SURVEYS**

on the

**SONGBIRD 1 & 2 MINERAL CLAIMS**

**NANAIMO MINING DIVISION**

by

**K.TAYLOR, F.G.A.C.**

**MINGOLD RESOURCES INC.  
709-837 West Hastings St.,  
Vancouver, B.C. V6C 1B6**

for

**EXPEDITOR RESOURCE GROUP  
1500-609 Granville St.,  
Vancouver, B.C. V7Y 1G5**

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**17,384**

<b>SUB-RECORDER</b>	
RECEIVED	
MAY 3 1988	
M.R. #	\$
VANCOUVER, B.C.	

Date of Work: February 2-15, 1988  
 Latitude: 49 13'N  
 Longitude: 124 13'W  
 NTS Mapsheet: 92F/1

April 15, 1988  
 Vancouver, B.C.

TABLE OF CONTENTS

SUMMARY AND CONCLUSIONS..... 1  
INTRODUCTION..... 2  
LOCATION AND ACCESS..... 3  
CLAIMS..... 3  
EXPLORATION HISTORY..... 3  
PRESENT EXPLORATION PROGRAM..... 5  
CONTROL GRID..... 5  
ELECTROMAGNETIC SURVEY..... 5  
VLF-EM INTERPRETATION..... 6

APPENDICES

APPENDIX 1 - STATEMENT OF COSTS..... 7  
APPENDIX 2 - STATEMENT OF QUALIFICATIONS..... 8  
APPENDIX 3 - VLF-EM DATA ..... 9

PLATES

PLATE 1 - LOCATION MAP - Songbird Property....FOLLOWING PAGE 2  
PLATE 2 - CLAIMS.....FOLLOWING PAGE 3  
PLATE 3 - LINECUTTING & VLF-EM (FRASER FILTERED).....IN POCKET

## SUMMARY & CONCLUSIONS

A VLF-EM survey was carried out over a new grid established on the Songbird 1 and 2 mineral claims. A total of 7.5 kilometers of section line and EM surveying was completed utilizing a 2.0 kilometer cut baseline.

The work was carried out by Mr. Joel Thomlinson and Mr. Dan Cosgrove in early February, 1988. The program was under the direction of the writer and Mr. Ed Yarrow of Mingold Resources Inc. in Vancouver, B.C.

The electromagnetic survey confirmed the presence of a series of parallel conductors detected by Eureka Resources Inc. in an earlier program. The main area of interest in the past, the "Lily Showing", is coincident with one of these conductors. Drilling and trenching in the past has been confined to the immediate area of the "Lily Showing" even though the respective conductor extends a considerable distance to the north. The Lily mineralization is very similar in character to that found at the DEBBIE property (Nexus-Westmin) to the west. At the DEBBIE the best drillhole intercept was 4.08 oz/t gold over 47 feet (14.3 M)<sup>1</sup> (Walker, 1988).

1. Walker, Richard - M.E.G. talk on the DEBBIE property, Spring 1988.

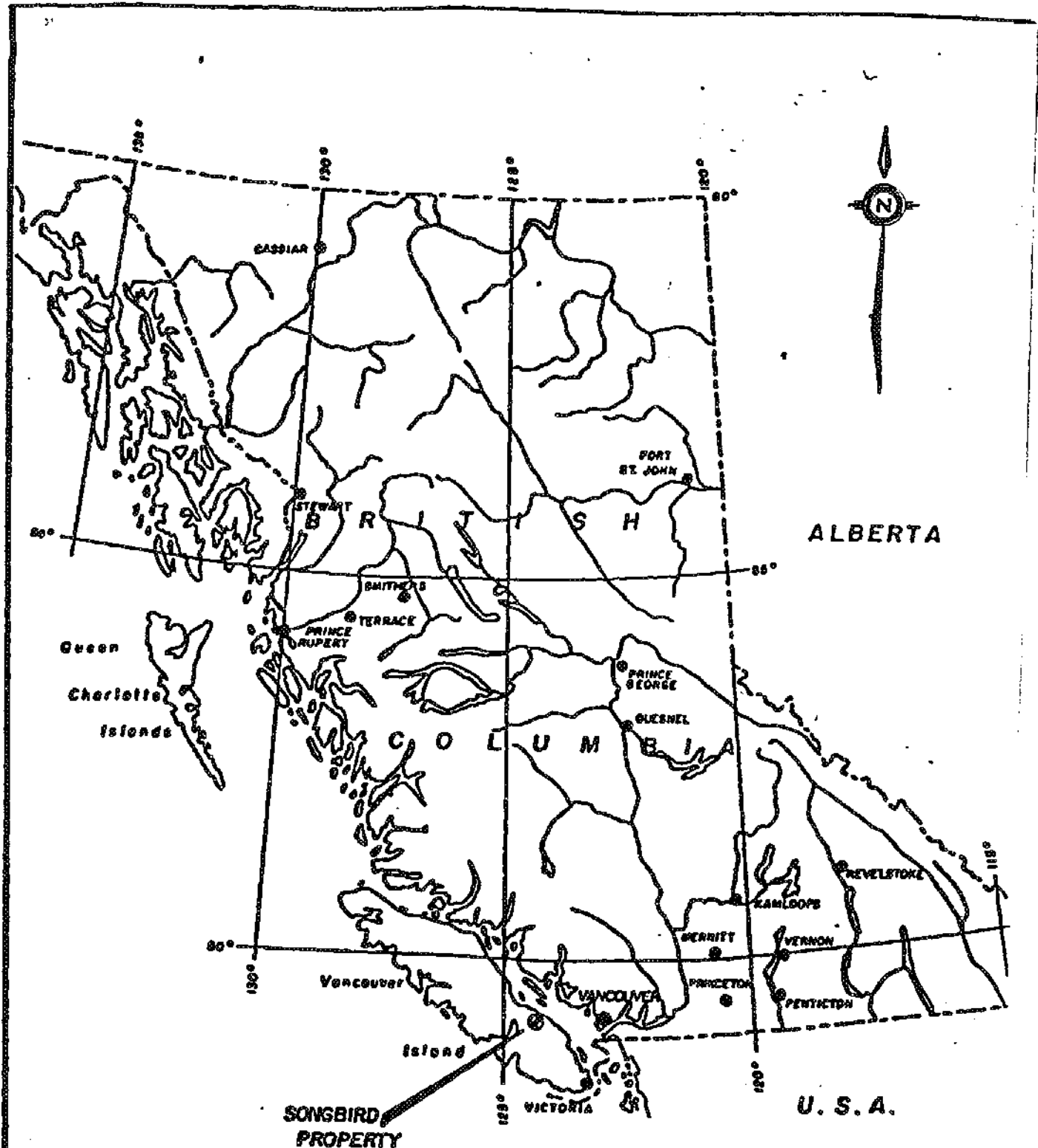
## INTRODUCTION

Mingold Resources Inc. personnel were retained by the Expedito Resources Group to begin a re-evaluation of the SONGBIRD mineral claims. Previous work by Gunnex Mines Ltd. (1964-65), Invex Resources (1979-80) and Eureka Resources (1984-85) indicated the presence of potentially economic grades of gold-silver mineralization over significant widths. Most of this work focussed on a relatively small area on the central part of the SONGBIRD 2 claim referred to as the "Lily Showing".

The report which follows describes a linecutting and VLF-EM surveying program that was carried out during the period of Feb.3-15, 1988. This work is only the beginning of a more substantial program planned for the early part of the 1988 field season. Due to extremely inclement weather at the time of this work, progress was considerably slower than anticipated.

## LOCATION AND ACCESS

The SONGBIRD 1 and 2 claims are located on the southeastern part of Vancouver Island approximately 15 kilometers south-southeast of Parksville, B.C. Latitude 49 13'N and Longitude 124 13"W (NTS mapsheet 92F/1). The property lies on the northeast slopes of Okay Mountain between Englishman River and Bonell Creek. Access is via a system of Macmillan-Blodell logging roads out of Parksville. Prior to any work in the area, a \$500.00 non-refundable payment for use of the roads and a \$10,000 bond had to be posted with Macmillan-Blodell.



MINGOLD RESOURCES INC.	
LOCATION MAP	
SONGBIRD PROPERTY	
NANAIMO MINING DIVISION, B.C.	
Technical Work by:	Date: April 1988
Scale: 1cm = 87km.	Fig No. 1

The claims occur in typical Vancouver Island style bush. The area was logged years ago but second growth spruce, balsam, fir and cedar are common. A thick mat of salal blankets much of the area making progress arduous and slow.

The climate is west coast temperate with generally moderate temperatures and moderate to heavy rainfall common.

### CLAIMS

The property described in this report consists of two contiguous mineral claims totalling 21 units as follows:

<u>CLAIM</u>	<u>UNITS</u>	<u>RECORD NO.</u>	<u>EXPIRY DATE</u>	<u>MINING DIVISION</u>
SONGBIRD 1	15	1318	Feb.16/88	Nanaimo
SONGBIRD 2	6	1319	Feb.16/88	Nanaimo

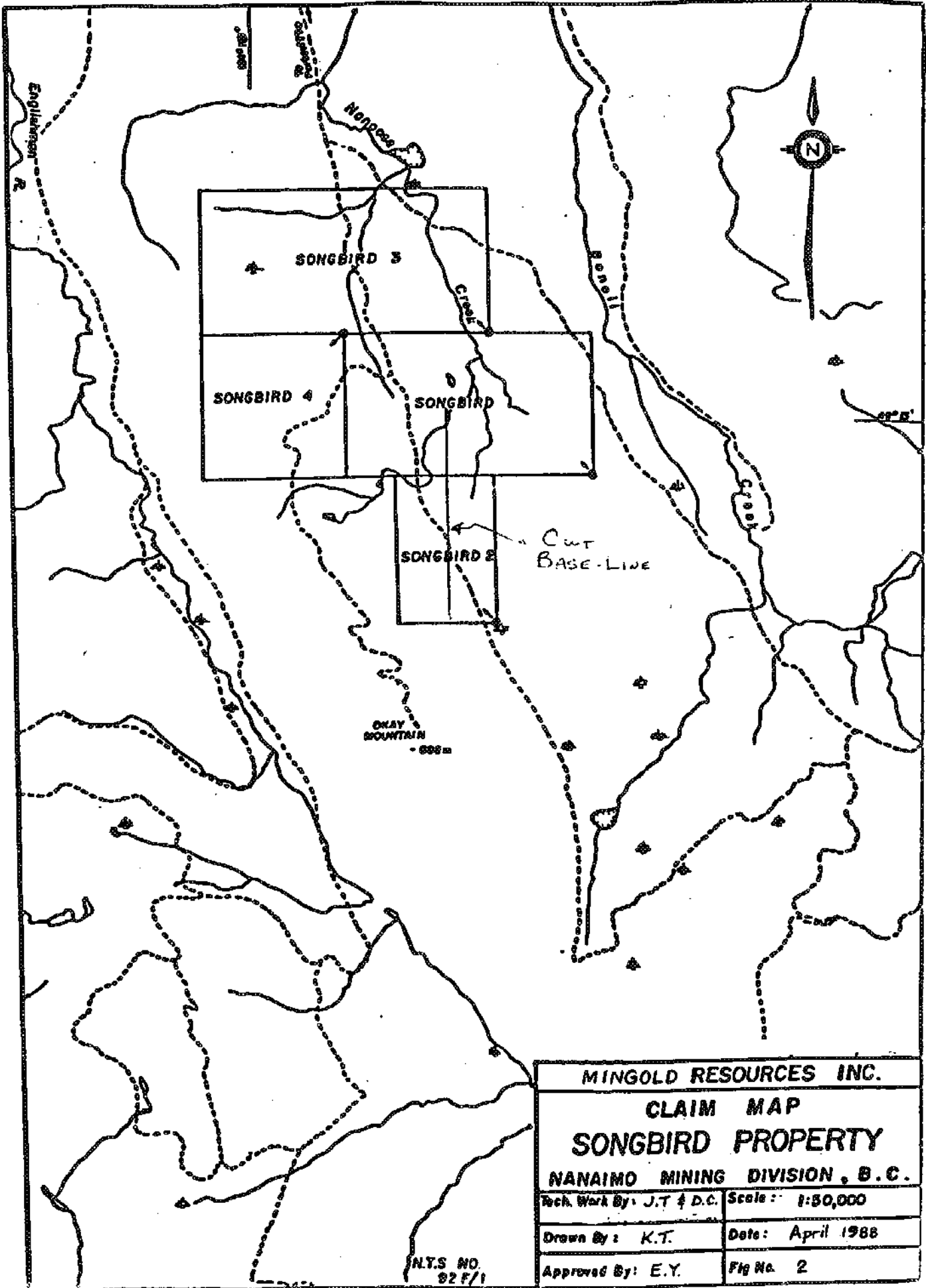
\* The work being applied under this report will maintain the property until Feb. 16/1989.

The claims are owned by Messrs. Doug Brownlee and Malcolm Bell, both of Vancouver, B.C. The claims were grouped together for assessment purposes by previous optionees.

Expedito Resources Group Inc. is presently negotiating an option deal with Mr. Brownlee and Mr. Bell.

### EXPLORATION HISTORY

During the period 1960 to 1963, Gunnex Ltd. conducted a regional silt sampling program covering the E & N Land Grants on Vancouver Island. Although this project was oriented towards basemetals, they discovered a zone (now Songbird Main Zone) which ran 0.1 oz/ton (3.4 g/tonne) gold, 0.5 oz/t (17.1 g/tonne) silver



<b>MINGOLD RESOURCES INC.</b>	
<b>CLAIM MAP</b>	
<b>SONGBIRD PROPERTY</b>	
<b>NANAIMO MINING DIVISION, B.C.</b>	
Tech. Work By: J.T & D.C.	Scale: 1:50,000
Drawn By: K.T.	Date: April 1988
Approved By: E.Y.	Fig No. 2

N.T.S. NO.  
92 F/1



and 0.1% copper over 1.5 meters. They subsequently staked this area in 1963 and carried out preliminary prospecting, mapping and soil sampling before allowing the claims to lapse.

In 1978, Invex Resources restaked the showing area and conducted geological mapping and geochemical sampling. This work was followed up by trenching and plugger drilling (14 holes) of the Lily zone (original Gunnex discovery). Reportedly chip samples taken across the vein zone averaged 0.194 oz/t (6.7 g/tonne) gold and 1.39 oz/t (47.7 g/tonne) silver over a true width of 9.1 meters. In 1980, Invex drilled two additional short holes the results of which are not known.

In 1983, the area was again restaked as the SONGBIRD claims by Messrs., Doug Brownler and Malcolm Bell.

Eureka Resources optioned the property in 1984 and conducted mapping, soil sampling, VLF-EM, trenching and 457 meters of diamond drilling (8 holes). The drilling focussed on the Main Zone (formerly Lily zone) with the best hole averaging 0.059 oz/t (2.0 g/tonne) gold across 3.2 meters. The reconnaissance VLF-EM survey traced the fault structure on which the Main Zone occurred a distance in excess of 2,000 meters to the north. Erratic and generally weak gold and silver soil anomalies accompany this structure however sampling was done on a 300 meter by 50 meter spacing. Eureka dropped their option in 1985 and the ground was reoptioned by Carbon Energy in 1986. They did minor trenching and then dropped the ground in 1987. At the present time the ground is still owned by Brownlee and Bell however, it is being transferred to Expedito Resource Group Inc.

## PRESENT EXPLORATION PROGRAM

Mingold Resources Inc. initiated preparatory grid work on the SONGBIRD 1 and 2 claims on February 2, 1988. The purpose of the work was to re-establish grid control in the area and facilitate a VLF-EM survey to relocate the fault structure outlined by Eureka Resources. Due to assessment work requirements on the property it became necessary to carry out some of this work during particularly adverse weather conditions (torrential rain). This weather along with the thick salal underbrush resulted in very slow progress.

## CONTROL GRID

A 2.0 kilometer baseline was linecut from 36N to 56N and tight chained. A point where the mutual claim line met the access road was chosen as a starting point and designated 50N/50E. This station coincided very closely with the Eureka grid coordinate L15N-7W.

A total of 7.5 kilometers of section line was located using compass and hip-chain and marked by flagging and/or blazes.

## ELECTROMAGNETIC SURVEY

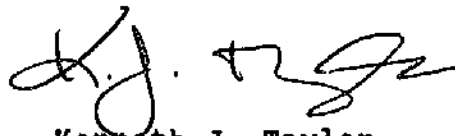
A VLF-EM survey was conducted concurrently with the section lines establishment. A Geonics EM-16 unit was employed for this survey. The operation and theory of this instrument are well documented in the literature and will not be repeated here. The Seattle, Washington transmitter station was used for the survey and the operator consistently faced east-northeasterly (marked as East on data sheets). Readings were taken at 25 meters intervals

along section lines spaced 100 meters apart. As the work done for this assessment report is only part of a more elaborate program and not complete unto itself, there are gaps in the coverage. Despite these gaps however a reasonable interpretation appears to be possible.

#### VLF-EM INTERPRETATION

The VLF-EM data was Fraser-filtered and the values plotted and contoured on Plate No. 88-1 (in pocket). A total of six (6) major anomalies are outlined and designated "A" through "F". All with the possible exception of "A" and "F" appear to be related to north-northwest trending fault structures similar to that of the "Lily Showing" (Anomalies "D" and "E"). The Lily consist of brecciated and quartz veined carbonatized (ankerite-silica) fault zone material. Similar hostrocks occur on the DEBBIE property (Nexus-Westmin) to the west. The VLF-EM anomalies indicate the mineralized fault zone material could be over 100 m thick. Economic grades of gold-silver mineralization however are likely much narrower.

Some of the filtered readings have been marked as suspect due mainly to the magnitude of the readings. The values however tie in with other anomalous results and do not appear to indicate a malfunctioning instrument.



Kenneth J. Taylor

APPENDIX 1

STATEMENT OF COSTS

A. PHYSICAL WORK (Linecutting)

Personnel:	J. Thomlinson	\$100.00/day	
	D. Cosgrove	\$100.00/day	
	K. Taylor	\$150.00/day	
Linecutting	- 2.0 km. of baseline & chaining - Feb.3-7		
	5 days for 2 men @ \$100/manday		\$ 1,000.00
	- 7.5 km of sectionline - Feb.8-14		
	7 days for 1 man @ \$100/manday		700.00
Travelling	- One ferry trip for 2 men - Feb.2		
	(Vancouver to Nanaimo)		25.50
	- One ferry trip for 2 men - Feb. 15		
	(Nanaimo to Vancouver)		25.50
	- 1 days travelling time for 2 men		
	@ \$100/manday (split with Geophysics)		200.00
Truck Rental	- 10 days	\$40.00/day	400.00
Accommodation	- 19 mandays @ \$35.00/manday		665.00
Supplies	- flagging, thread etc.		<u>134.00</u>
		SUBTOTAL	\$ 3,300.00

B. GEOPHYSICS (VLF-EM)

Personnel:	J. Thomlinson	\$100.00/day	(Contract)	
	D. Cosgrove	\$100.00/day	(Contract)	
	K. Taylor	\$150.00/day		
VLF-EM survey	over 7.5 km - Feb. 8-10, 12-14			
	- 6 days for 1 man @ \$100/manday			\$ 600.00
	- 1 day plotting/processing for 1 man @			
	\$100/manday			100.00
Accommodation	- 6 mandays @ \$35.00/manday			210.00
Truck Rental	- equivalent of 4 days @ \$40/day			160.00
Travelling	- 1 day travelling time for 2 men @			
	\$100/manday (split with Physical Work)			200.00
Supplies	(batteries, contact cleaner etc.)			21.00
Report	- 1 day			<u>150.00</u>
				\$ 1,441.00

APPENDIX 2

STATEMENT OF QUALIFICATIONS

I, KENNETH J. TAYLOR, residing at 15732-92 B Avenue, Surrey, B.C., do hereby certify that:

1. I am an employee of the Vancouver office of Mingold Resources Inc.
2. I am a graduate of the University of British Columbia in 1973 with a B.Sc. in Geology.
3. I am a Fellow, in good standing, of the Geological Association of Canada.
4. I have practised my profession as an Exploration Geologist for over 14 years.
5. I was partially responsible for supervision of this program and received timely reports on the progress and data obtained.
6. I do not have, nor do I expect to receive any direct or indirect interest in the SONGBIRD property or the Expeditox Resource Group.

Dated at Vancouver, British Columbia, this 28th day of April, 1988.

VLF-EM Data Sheet

Grid: Songbird

Line: 43N

Tx: Seattle

Facing: East

$\Delta$	Dip Angle	Slope %	Correction Factor	Reading	1 <sup>st</sup> Diff.	F. Filter		Quad.
50	-104	+34						+13
75	+6	-5						+3
47+00E	-53	-14				+11		-22
25	-56	-6				+41		-22
50	-32	+20				-47		-18
75	-30	-3				-47		-20
48+00E	-11	-15				-49		-2
25	-2	-35				-4		+6
50	-35	-19				+94		0
75	-72	-29				+64		-16
49+00E	-29	-5				-71		-2
25	-7	-3				-107		+5
50	+13	-17				-59		0
75	+10	+5				+2		-12
50+00E	-6	+36				+133		+3
25	-104	-14				+258		+13
50	-150	-5				+130		0
75	-90	+34				-64		-10
51+00E	-100	-10				-40		-24
25	-100	-5				-74		-40
50	-16	-10				-179		-10
75	-5	0				-121		-12
52+00E	+10	-10				-111		-6
25	+35	-20				-62		0
50	+32	-16				+66		+8
75	-53	-2				+182		-2
53+00E	-62	-13				+43		+4
25	-2	-12				+97		+38
50	-104	+8				+150		+5
75	-110	+10				+70		+6
54+00E	-62	-5				-126		+22
25	-26	+4				-136		+38
50	-10	-12				-67		-22
75	-11	-5				+36		+18
55+00E	-61	-35				+95		+26
25	-55	+25				+23		+5
50	-40	+30				-64		+23
75	-12	+10				-70		+17
						-15		



Grid : SongbirdFacing : East

$\Delta$	Dip Angle	Slope %	Correction Factor	Reading	1 <sup>st</sup> Diff.	F. Filter		Quad.
46+50E	-23	0						+1
75	-17	+5						+2
47+00	-10	+10				-27		+2
25	-3	+10				-24		+2
50	0	0				-13		-1
75	0	-10				0		-2
48+00	-3	-15				+13		-8
25	-10	-25				+17		-10
50	-10	-23				-3		-8
75	0	-20				-18		-7
49+00	-2	-22				-11		0
25	+3	-5				+5		+3
50	-10	-20				+16		+1
75	-5	-5				+38		-12
50+00	-40	-5				+80		-18
25	-55	-30				+50		+4
50	-40	-20				-35		-2
75	-20	-2				-70		0
51+00	-5	-15				-60		0
25	+5	-7				-5		+4
50	+15	+10				-30		+4
75	+15	+15				-20		+14
52+00	+25	-26				+35		0
25	-30	-30				+105		-8
50	-35	-20				+60		-16
75	-30	-3				-18		-34
53+00	-17	-20				+27		-36
25	-75	-25				+73		-3
50	-45	+10				-12		-18
75	-35	+10				-80		-24
54+00	-5	0				-80		-22
25	+5	-10				-50		-22
50	+5	-5				+15		-30
75	-20	-15				+95		-6
55+00	-65	-20				+80		+20
25	-30	+10				-50		-16
50	-5	+20				-95		-20
75	+5	-30				-55		-16
						-33		





$\Delta$	Dip Angle	Slope %	Correction Factor	Reading	1 <sup>st</sup> Diff.	F. Filter		Quad.
47+00E	-1	+15						+4
25	0	+20				-1		+1
50	0	-10				+20		+5
75	0	-25				+52		-2
48+00	-20	-60				+17		-8
25	-32	-35				-40		-5
50	-5	-20				-27		-6
75	-7	-20				-14		-5
49+00	-3	0				+2		0
25	+5	-15				+49		-2
50	-17	-20				+63		-11
75	-30	-17				+25		-13
50+00	-45	-35				-32		+6
25	-27	-8				-50		+8
50	-16	+5				-32		+6
75	-6	-20				-29		+7
51+00	-5	-30				-48		+7
25	+12	-35				-10		+8
50	+25	-37				+80		+5
75	-8	-5				+60		0
52+00	-35	+10				-40		-16
25	-8	-5						-16
50	+5	-10						-18





$\Delta$	Dip Angle	Slope %	Correction Factor	Reading	1 <sup>st</sup> Diff.	F. Filler		Quad.
46+50E	-8	-25						-8
75	-18	+5				-24		-7
47+00	-2	-5				-23		-8
25	0	-5				-4		-8
50	+3	+10				+23		-5
75	-1	-10				+49		-5
48+00	-19	-20				+33		+3
25	-28	-5				-4		+9
50	-25	-15				-31		+10
75	-18	-10				-29		+10
49+00	-4	-22				-15		+12
25	0	-12				-25		+7
50	+7	-18				-24		+7
75	+14	-15				-2		+2
50+00	+17	-12				+45		-1
25	+6	-10				+44		-6
50	-20	+5				-20		-5
75	-1	-5				+15		-8
51+00	+7	-1				+79		-10
25	-43	-20				+14		-2
50	-30	0				-41		-16
75	-20	+5				-31		-16
52+00	-12	+5				-21		-10
25	-7	0				-13		-10
50	-4	-2				-11		-5
75	-2	-2				-10		-2
53+00	+2	-5				-6		-4
25	+2	+7				-3		-3
50	+4	+5				+3		-4
75	+3	+20				+8		-6
54+00	0	-20				+8		-3
25	-1	-30				+15		-4
50	-4	-3				+17		-1
75	-12	-4				+9		-4
55+00	-10	-22				+3		0
25	-15	-5				-9		+2
50	-10	-2				-14		0
75	-6	-6				-8		+1



Grid : Smabird

Facing : East

$\Delta$	Dip Angle	Slope %	Correction Factor	Reading	1 <sup>st</sup> Diff.	F. Filler	Quad.
43+00E	+26	+16					+13
25	+10	-20					+9
50	-23	-9				+117	+2
75	-58	-22				+80	-8
44+00E	-35	-14				-3	-1
25	-43	-18				+30	-3
50	-80	-5				+54	-22
75	-52	-14				-28	-17
45+00E	-43	-16				-83	-23
25	-6	-15				-98	-20
50	+9	-20				-110	-3
75	+52	-15				-81	+36
46+00E	+32	-12				+51	+5
25	-22	0				+138	-18
50	-32	-10				+132	+10
75	-90	0				+55	-15
47+00E	-19	0					+11

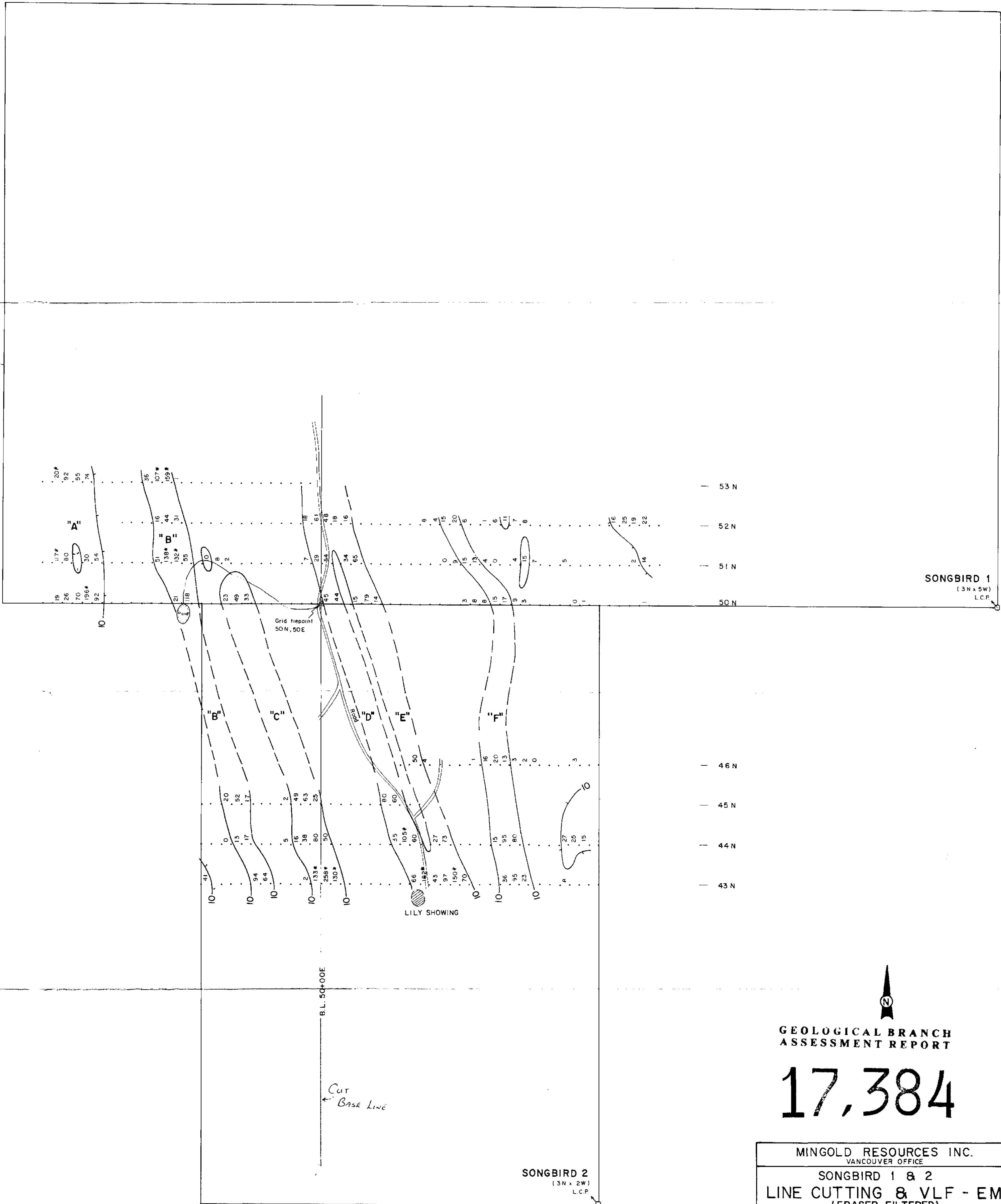
△	Dip Angle	Slope %	Correction Factor	Reading	1 <sup>st</sup> Diff.	F. Filter		Quad.
46+50E	-13	-20						-8
75	-8	-10						-8
47+00	0	-2				-11		-8
25	-10	0				+10		-5
50	-8	-5				+8		-6
75	-10	-3				+2		-5
48+00	-10	0				-3		-1
25	-5	-15				-10		+4
50	-5	+10				-8		+5
75	-2	+7				-18		+2
49+00	+10	-25				-27		+4
25	+10	-15				-22		+2
50	+20	-10				-15		0
75	+15	-10				+7		+4
50+00	+8	-20				+29		-8
25	-26	-10				+54		-15
50	-5	-13				-3		-15
75	-10	-13				+34		-14
51+00	-55	-10				+65		-14
25	-25	+10				-26		-14
50	-14	+5				-58		-3
75	-8	-10				-30		-11
52+00	-1	-10				-20		-9
25	-1	-3				-8		-5
50	0	-15				-7		-3
75	+1	-13				-6		-3
53+00	+4	-8				-7		-5
25	+4	0				0		-4
50	+1	-20				+9		-4
75	-2	-22				+15		-2
54+00	-8	-28				+13		+2
25	-6	-20				+4		-1
50	-8	0				0		-1
75	-6	-11				-2		-4
55+00	-3	-10				+4		-2
25	-15	-3				+15		-1
50	-12	-15				+7		-1
75	-13	+10				-5		0
						-26		





△	Dip Angle	Slope %	Correction Factor	Reading	1 <sup>st</sup> Diff.	F. Filter		Quad.
45+00E	-12	-5						+1
25	-2	-20						+1
50	0	0				-16		0
75	+2	-10				-4		-4
46+00	0	-20				+16		-8
25	-14	-30				+44		-3
50	-28	-25				+31		+4
75	-17	-8				-13		-5
47+00	-12	-12				-21		-6
25	-12	-10				-11		-3
50	-6	-10				-16		-4
75	-2	-5				-17		-2
48+00	+1	-5				-19		+1
25	+10	+12				-29		-2
50	+18	0				-22		-6
75	+15	0				-7		-2
49+00	+20	-18				-4		-2
25	+17	-15				-1		-1
50	+19	-20				-2		-2
75	+20	-18				+18		-2
50+00	-2	-20				+61		-4
25	-20	-5				+48		-22
50	-10	-20				+18		-24
75	-30	-5				+16		-16
51+00	-16	-5				-14		-15
25	-10	+10				-24		-13
50	-2	-10				-26		-12
75	+2	-20				-21		-9
52+00	+7	-12				-17		-8
25	+10	-28				-5		-10
50	+4	-15				-11		-6
75	+2	-27				+8		-3
53+00	+4	0				+4		-3
25	-2	-15				+15		-3
50	-7	-36				+20		+2
75	-11	-30				+6		+2
54+00	-4	+10				-6		-2
25	-8	-25				+1		-2
						+6		





SONGBIRD 1  
(3N x 5W)  
L.C.P.

SONGBIRD 2  
(3N x 2W)  
L.C.P.

  
 GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

# 17,384

MINGOLD RESOURCES INC. VANCOUVER OFFICE		
SONGBIRD 1 & 2 LINE CUTTING & VLF - EM (FRASER FILTERED)		
N.T.S. 92 F-1		NANAIMO M.D., B.C.
DRAWN BY: K.T.	DATE: APRIL 1988	APPROVED BY: K.T.
FIELD WORK BY: J.T. & D.C.	SCALE 1:5000 0 100 200 METRES	PLATE NO. 88-3

\* Suspect results due to magnitude of readings.