

**LEGEND:**

UNIT	DESCRIPTION
6	GRANODIORITE and GRANODIORITE SILLS: Massive sills are locally strongly pyritic Map Symbols - GRDR, DISF
6A	HORNFELSSED SEDIMENTS of Unit 2, adjacent to sills. Map Symbol - SULI
5	DIOIRIC SILLS, DYKES and PLUTONS: Variable mafic content, foliated Map Symbols - DISM, DKDI, DIMP, DIOR, QZ DIOR
4	MAFIC FLOWS and SILLS: Pyroxene porphyry and biotite porphyry crystal lapilli tuffs and flows, aplogneisses and minor pyroxenite sills Map Symbols - PXPP, BIPP
3	GRAPHITIC SHALES: Slaty, pyritic zones, forms lenses within Unit 2, occasional chert Map Symbols - PHGR, SEDC GR, SHALE
2	CHEMICAL and CLASTIC SEDIMENTS: Cherts, pyritic cherts, siltstones, sedimentary and volcanic phyllites, chert pebble conglomerates, volcanogenic siltstones, sandstones, siltstones Map Symbols - SEDC, SALS, SEDA, PHSD, PHVC, SAND, COLS, SOVC, SST, SILT
1	FELSIC TUFFS: Rhyolite or andesite crystal tuffs. Map Symbols - TFRY, TFAN, RVN, TFDC, FXPP

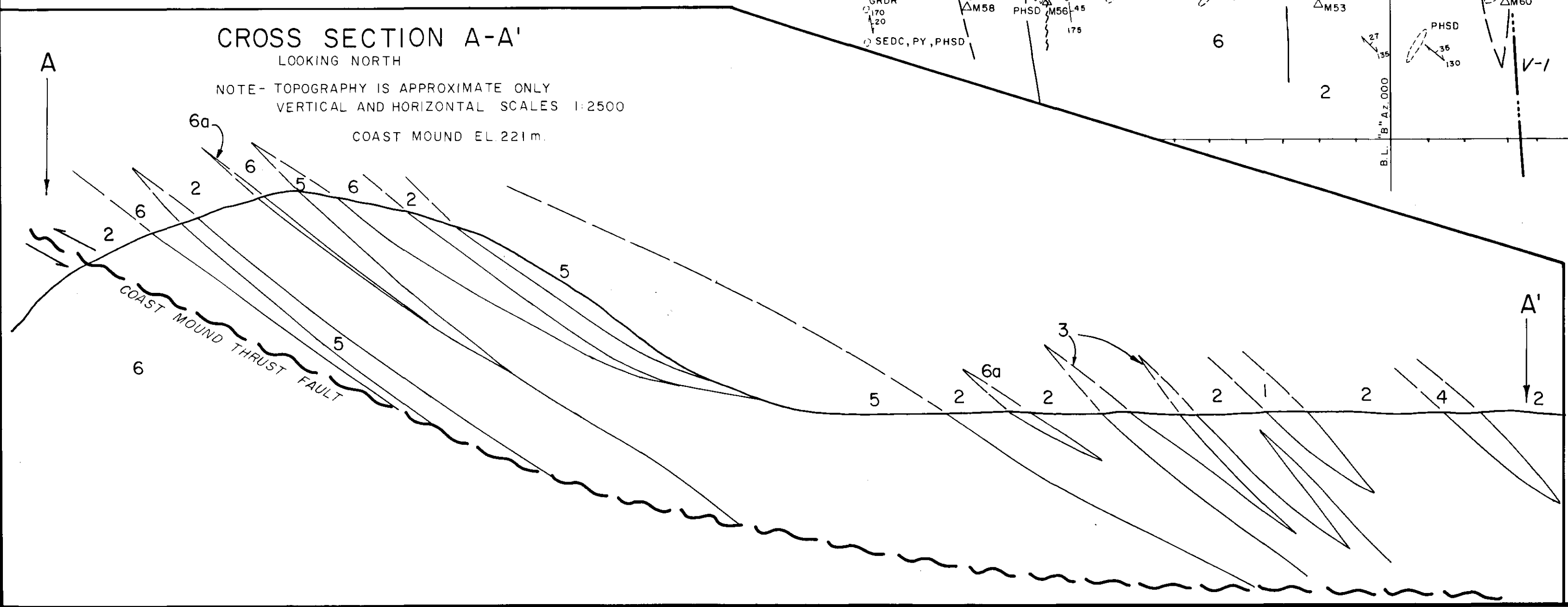
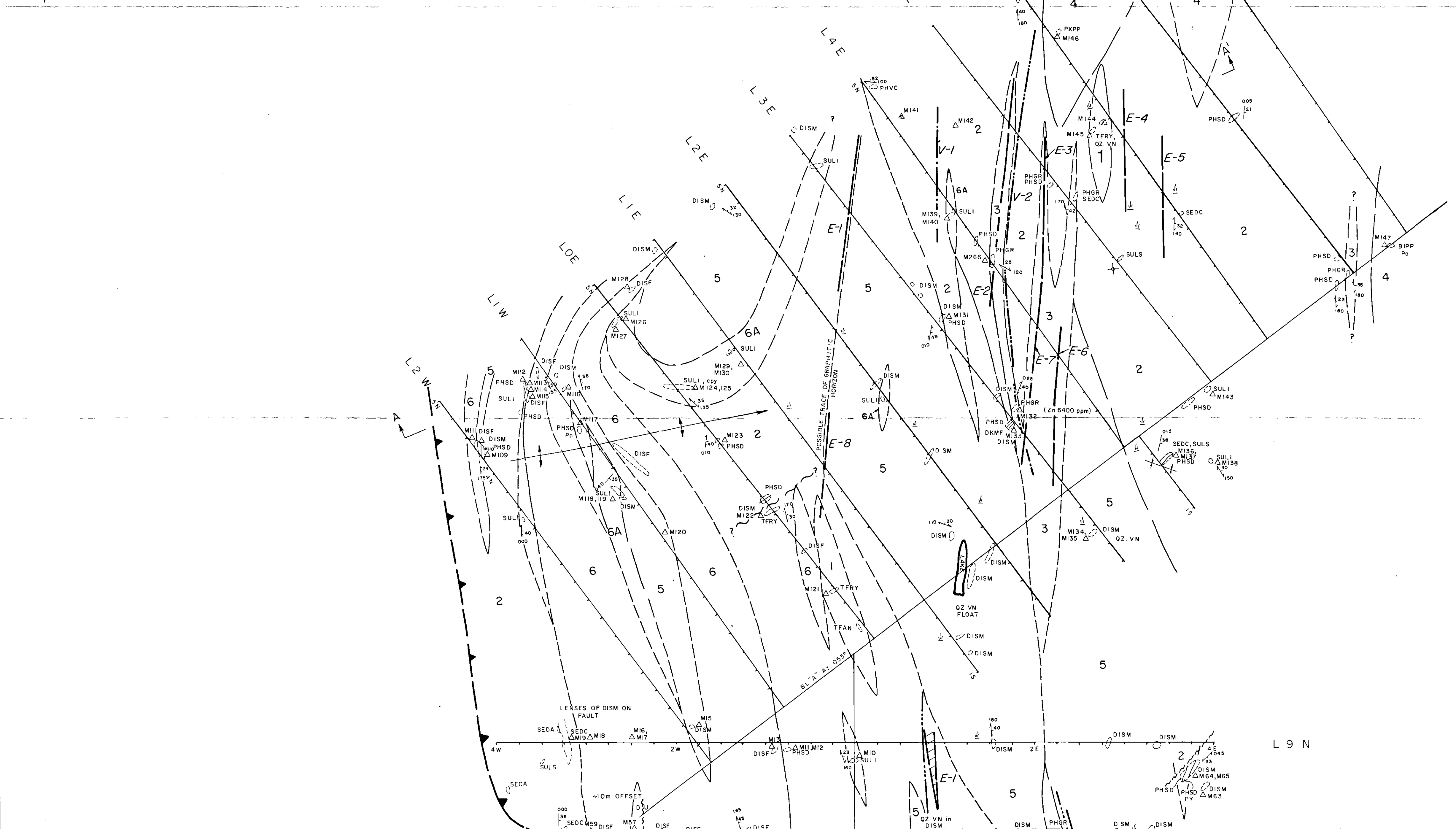
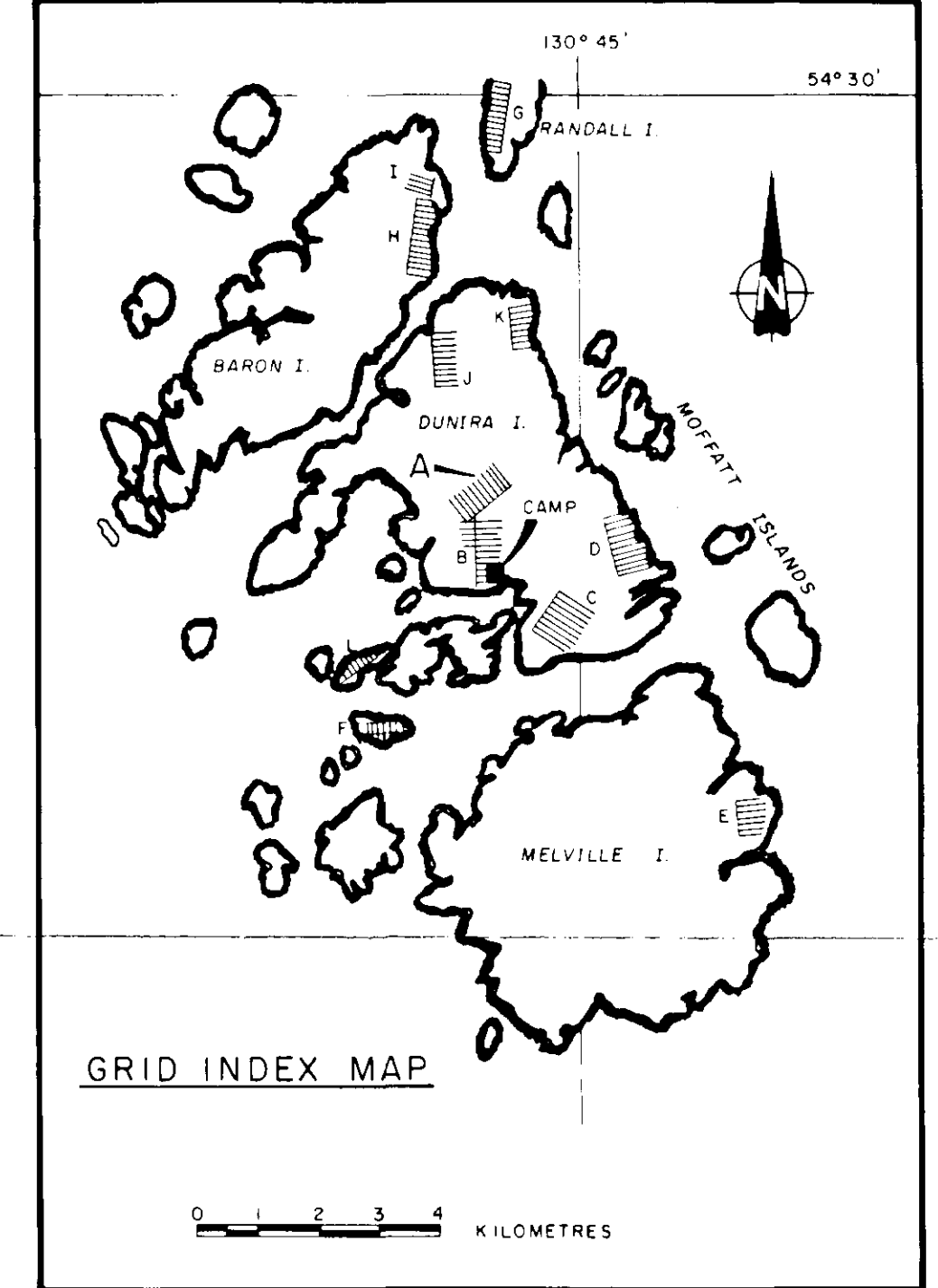
- Geological Contact - observed
- - - Geological Contact - approximate
- - - Geological Contact - assumed
- ~ Fault
- ~ Thrust Fault
- NEM of VLF-EM Conductor - weak (E)
- VLF-EM Conductor - moderate (V)
- VLF-EM Conductor - strong (S)
- Anticlinal Axis
- Synclinal Axis
- Overturned Anticlinal Axis with dip of axial plane and plunge of hinge line
- Strike and dip of bedding
- Strike and dip of foliation
- Azimuth and plunge of lineation
- △ ROCK SAMPLE LOCATION
- Approximate shape and position of mapped outcrop
- ▨ Alteration Zone

**MINERAL ABBREVIATIONS AND NOTATIONS**

ALT	alteration	LAM	laminated
BI	biotite	MF	mafic
BLK	black	MS	sericite
BO	hornblende	MU	muscovite
BXX	breccia	PP	pyroxenite
CB	calcite	PC	phenocrysts
CL	chlorite	PX	pyroxene
CP	chalcopyrite	PY	pyrite
DC	dacite	QC	quartz
FOL	foliated	SERP	serpentine
GL	galena	SH	sheared
GR	graphite	SIC	silicified
GS	grey sulphide	SIF	silicified
GY	grey	SP	sphalerite
HB	hornblende	VN	vein
KA	kaolinite		

**ROCK GEOCHEMISTRY**

SAMPLE NUMBER	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)
M 10	35	9	10	0.4
M 53	38	13	11	N/A
M 57	39	9	54	0.4
M 61	10	21	136	0.7
M 63	13	19	79	0.6
M 64	77	174	32	0.4
M113	52	8	189	0.7
M117	41	10	33	0.7
M118	76	10	86	1.0
M120	80	15	100	0.7
M125	12	8	17	0.3
M126	100	6	23	0.4
M127	120	8	22	0.4
M128	85	6	40	0.3
M129	106	11	28	1.4
M132	63	23	6400	1.8
M133	9	14	80	0.6
M134	7	12	216	0.6
M135	8	4	36	0.4
M136	119	9	30	0.6
M137	78	14	376	0.5
M138	84	9	9	0.3
M139	84	14	14	1.0
M140	78	14	21	0.9
M143	132	13	36	0.4
M144	10	7	21	N/A
M146	55	8	22	N/A



**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**BILLITON CANADA LTD.**

**12,777**  
part 2  
of 2

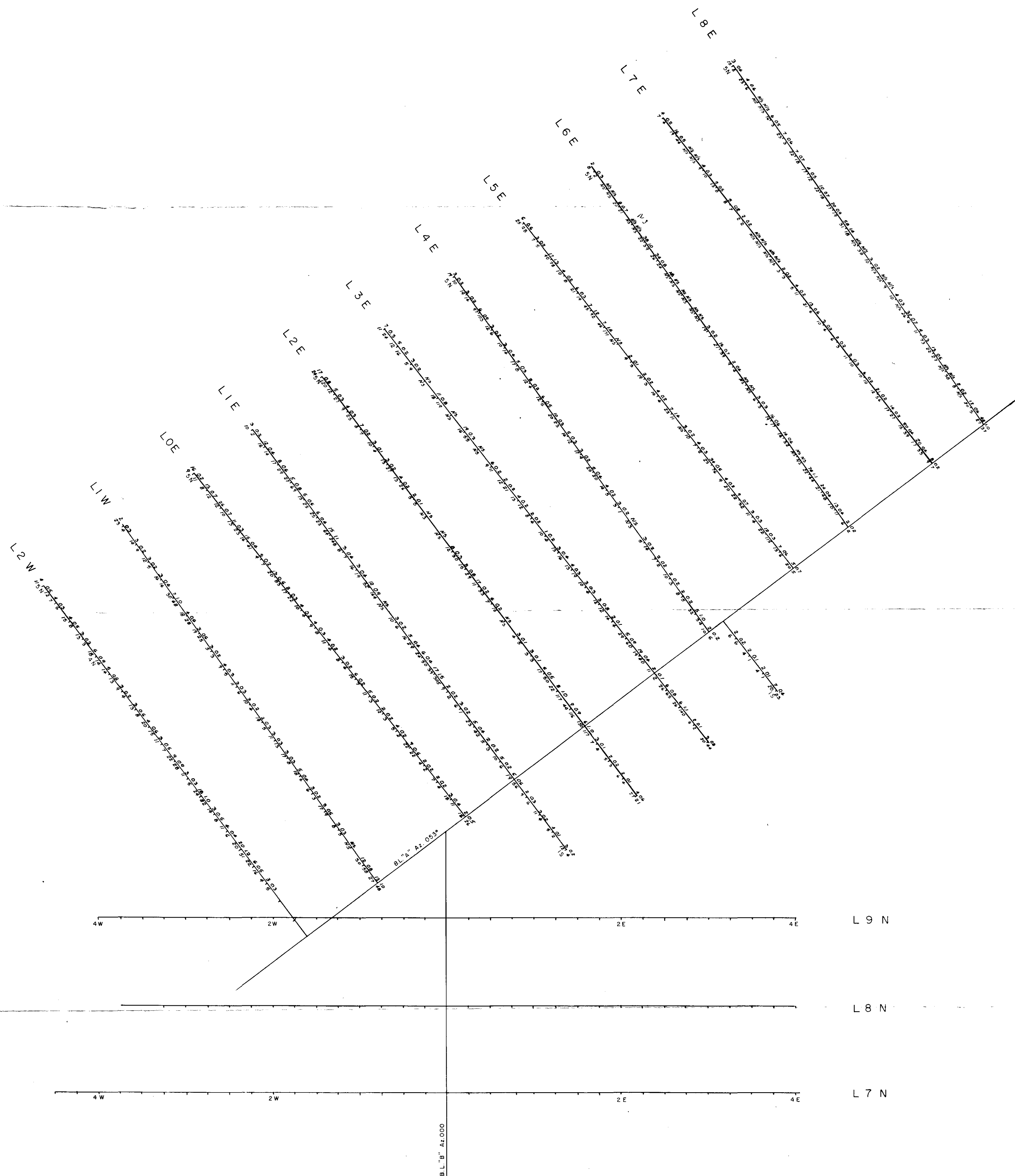
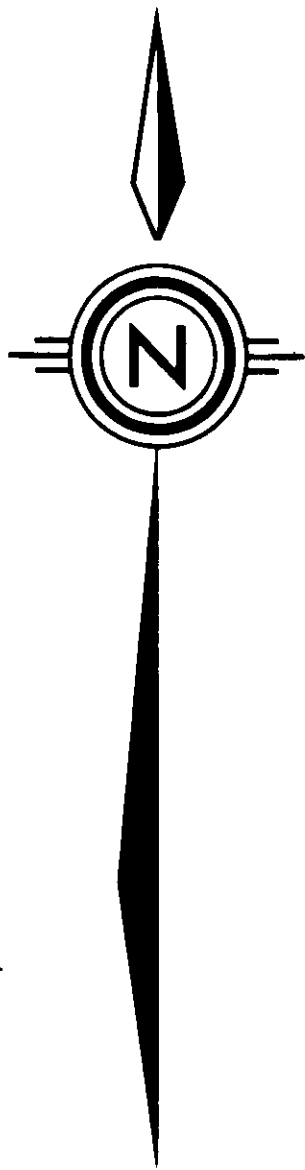
COAST COPPER PROJECT  
DUNN ISLAND B.C. NTS 103-J/7

**GRID A**

GEOLOGY MAP

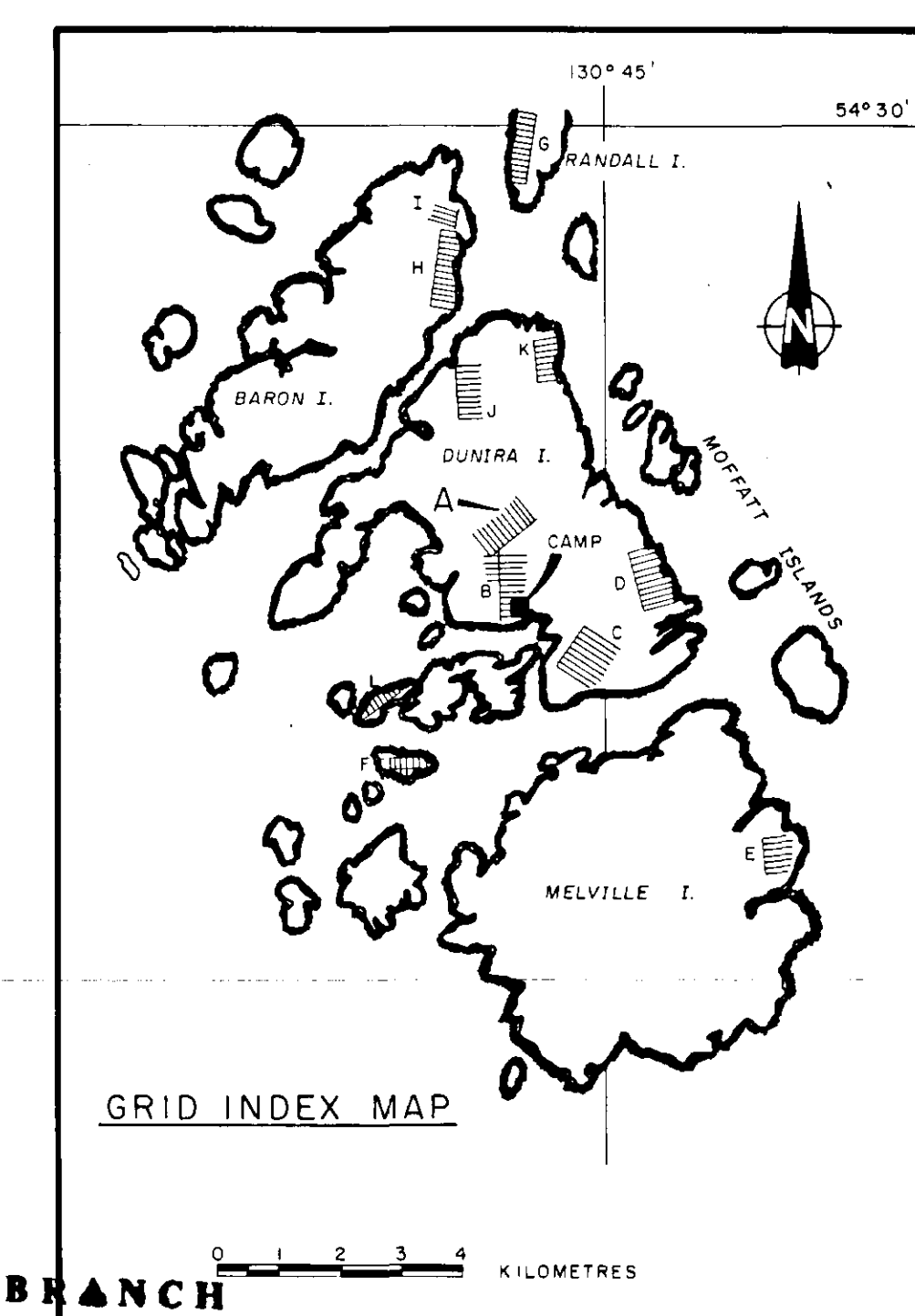
50 0 100 200 METRES

BY M.CARR/rwr  
DATE AUG, 1984  
MAP NO. A-1



**LEGEND**

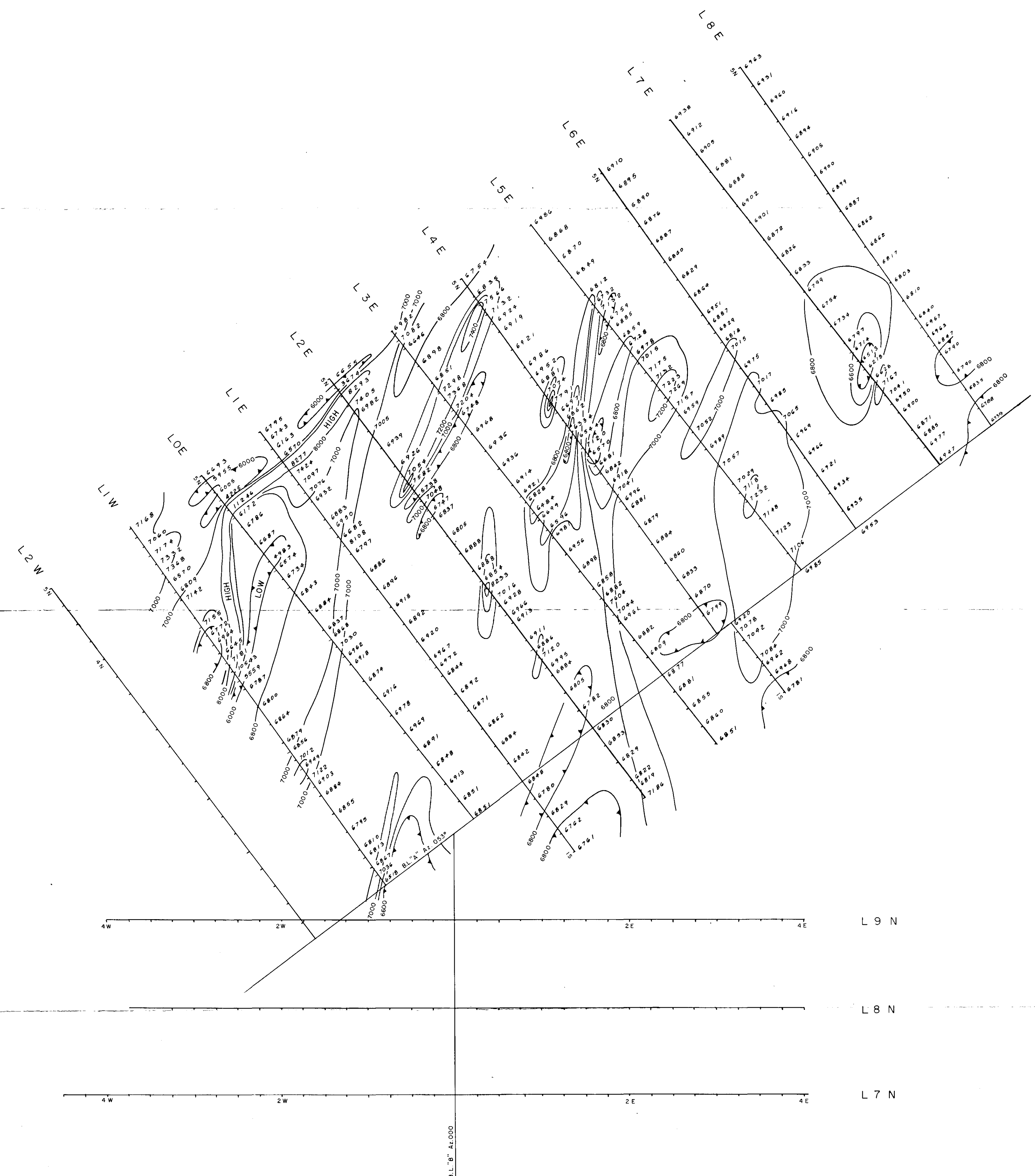
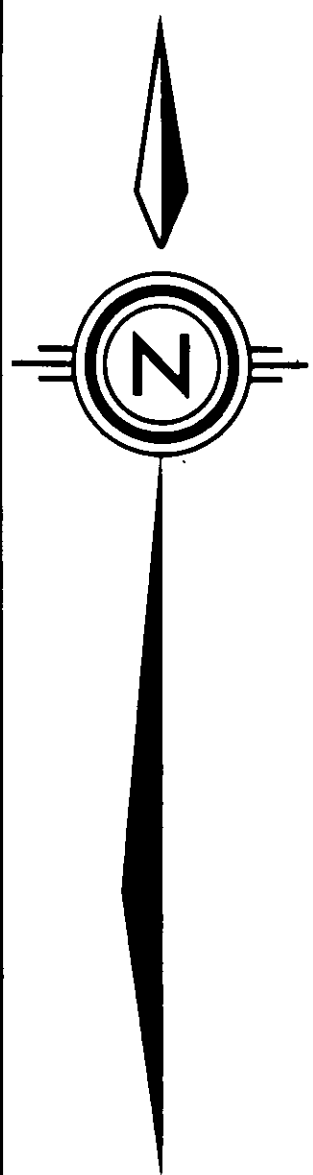
4 0.1 Cu Ag VALUES IN P.P.M.  
 12 29 Pb 25  
 NS = NO SAMPLE TAKEN.



**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

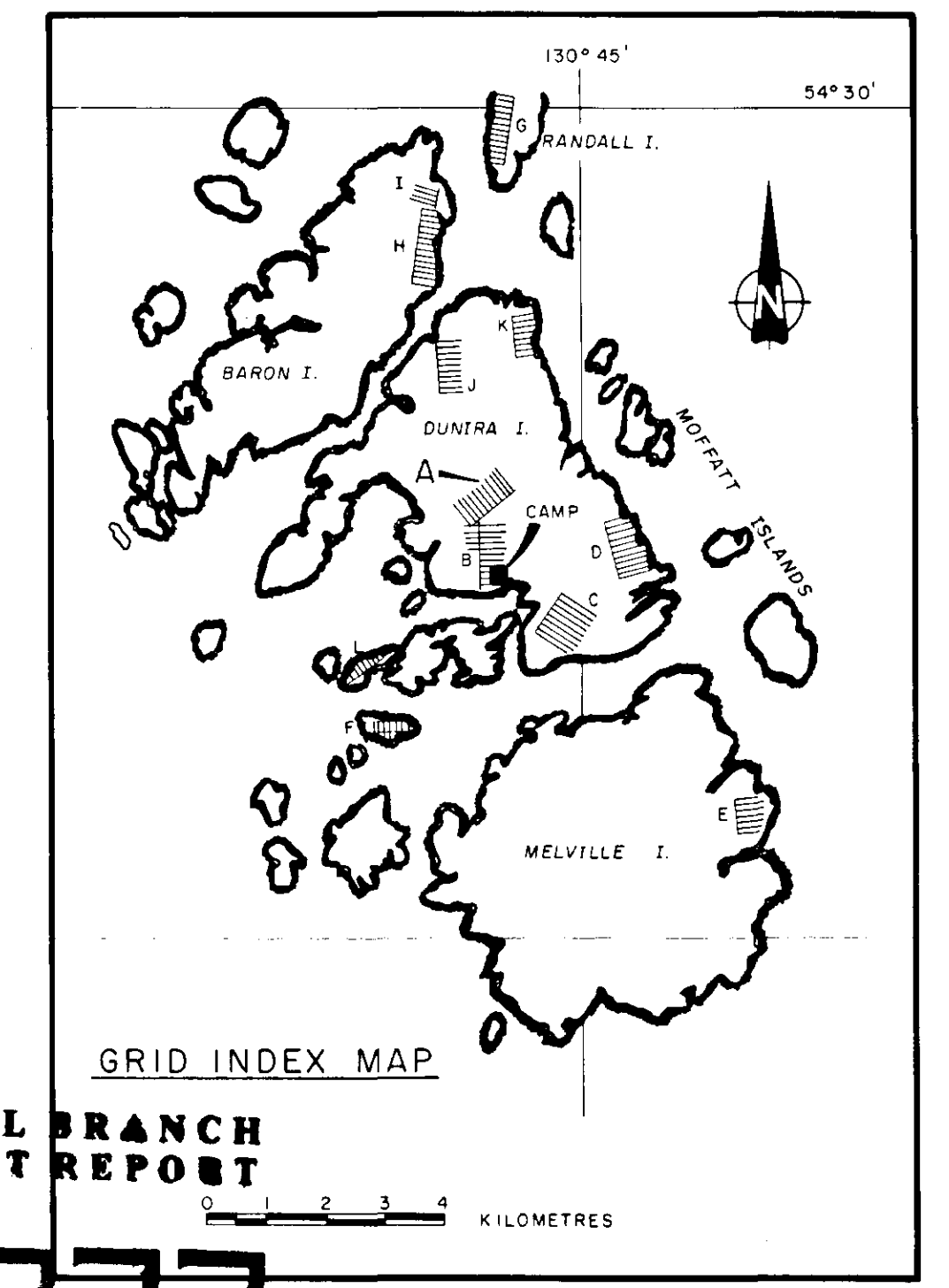
**12,777**  
 part 2  
 OF 2

<b>BILLITON CANADA LTD.</b>	
COAST COPPER PROJECT DUNIRA ISLAND B.C. NTS 103-J/7	
<b>GRID A</b>	
SOIL GEOCHEMICAL SURVEY Cu, Ag, Pb & Zn RESULTS	
50 0 100 200 METRES	
BY: M. CARR / rwr.	MAP NO. A-2
DATE: AUG., 1984	



**LEGEND:**

OPERATOR - E. JONES  
 INSTRUMENT : GSM-8 MAGNETOMETER  
 CONTOUR INTERVAL = 200 GAMMAS  
 NOTE: ADD 50,000 GAMMAS TO ALL VALUES

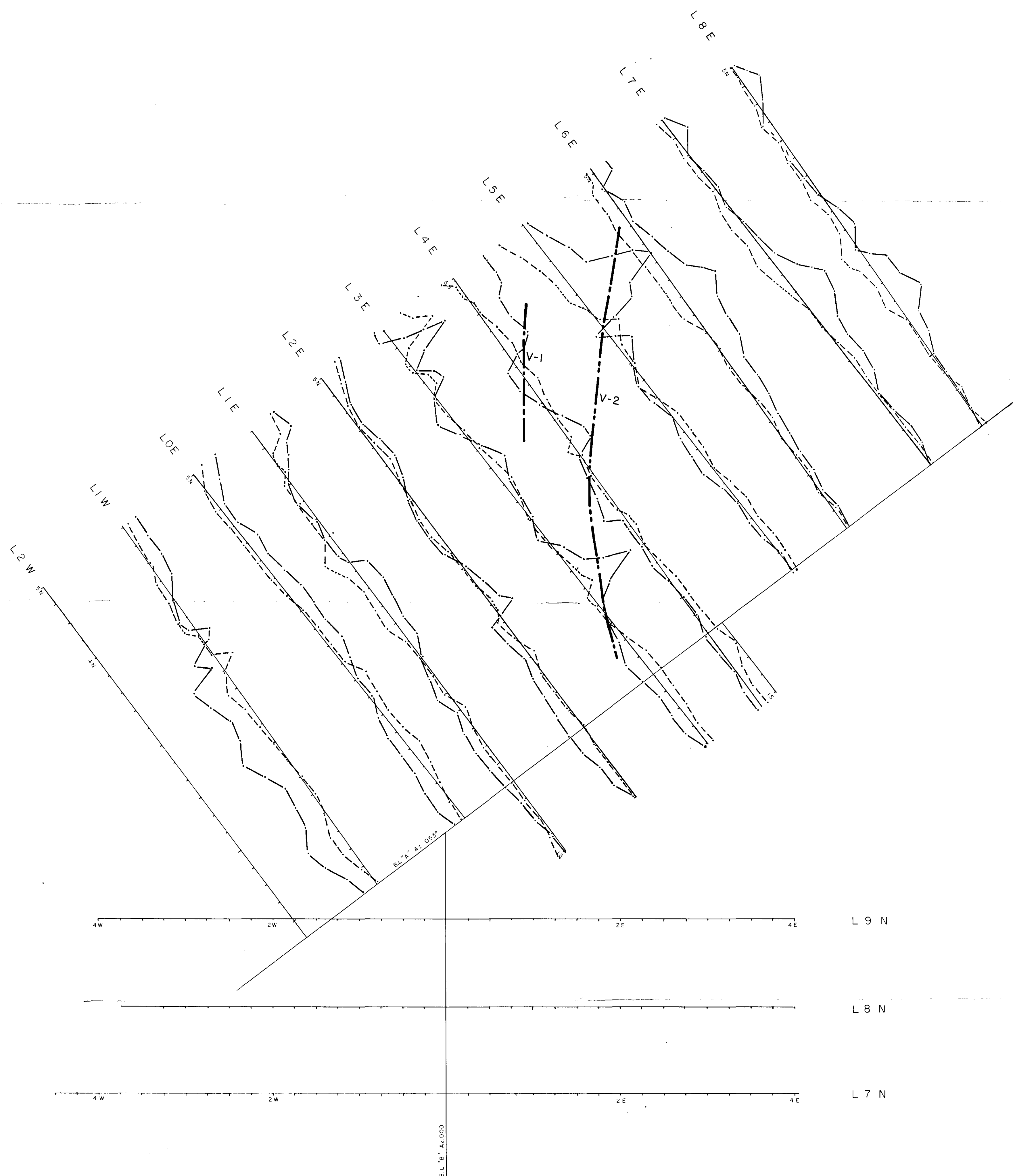
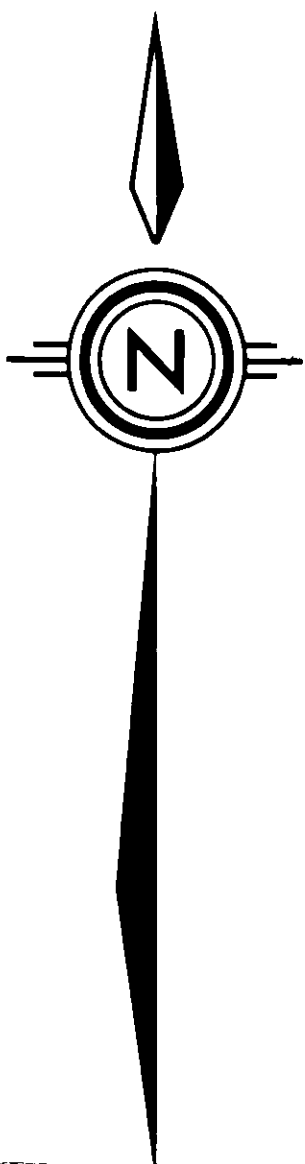


**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

**12,777**  
*part 2  
 of 2*

**BILLITON CANADA LTD.**  
 COAST COPPER PROJECT  
 DUNIRA ISLAND B.C. NTS 103-J/7  
**GRID A**  
 PROTON PRECESSION  
 MAGNETOMETER SURVEY

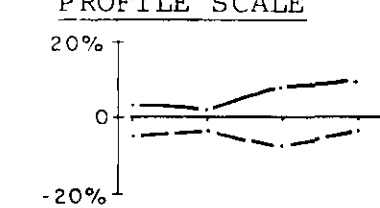
50 0 100 200 METRES  
 BY: M. CARR / rwr.  
 DATE: AUG., 1984  
 MAP NO. A-39



LEGEND:

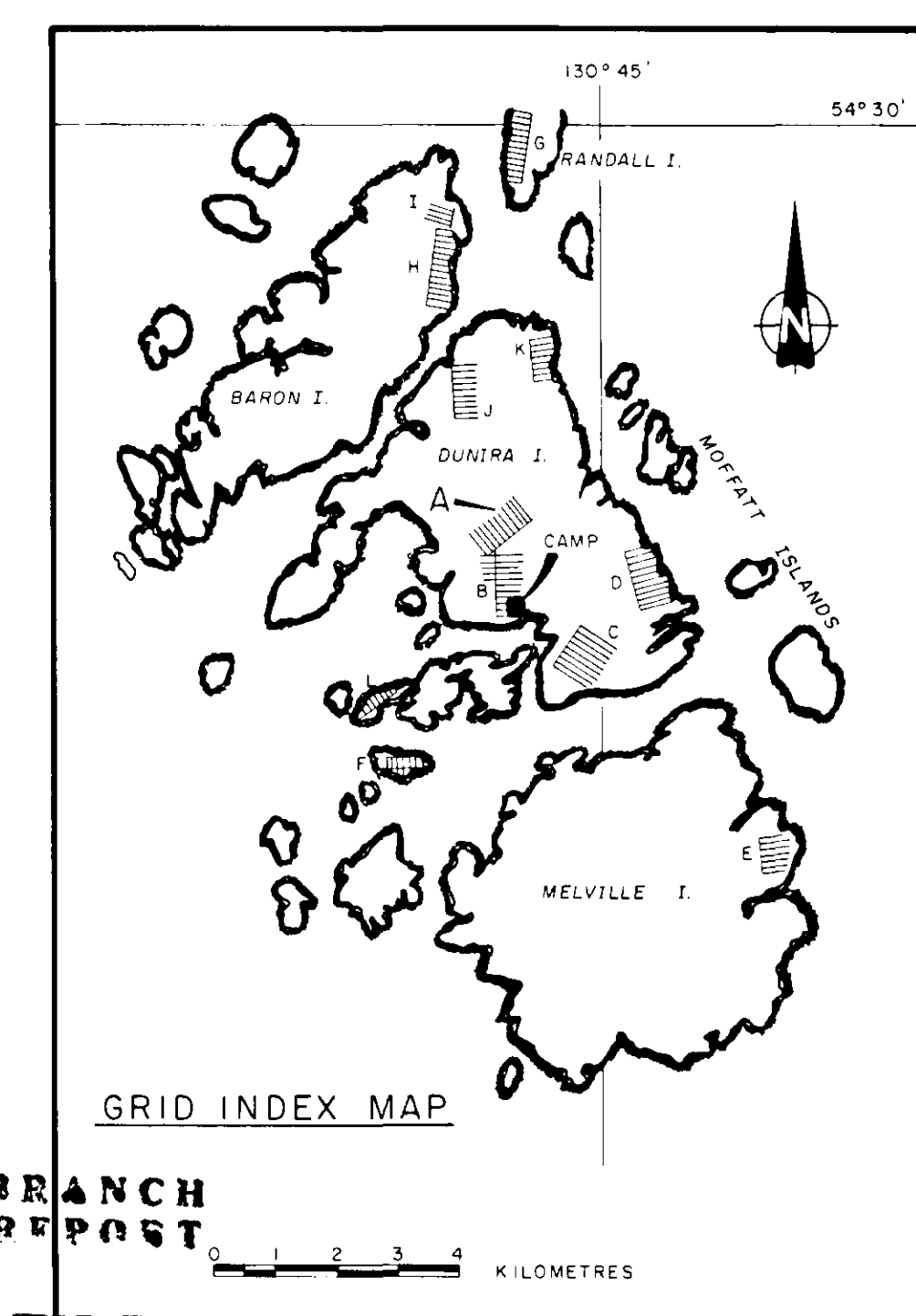
INSTRUMENT: EM-16  
COIL SEPARATION = 100m  
STATION: NLK SEATTLE  
FACING NORTH

PROFILE SCALE



IN-PHASE PROFILE  
QUADRATURE PROFILE

— WEAK CONDUCTOR  
- - - MODERATELY STRONG CONDUCTOR



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

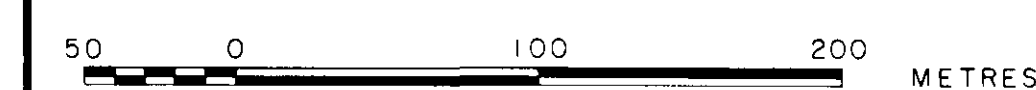
12,777  
part 2  
of 2

BILLITON CANADA LTD.

COAST COPPER PROJECT  
DUNIRA ISLAND B.C. NTS 103-J/7

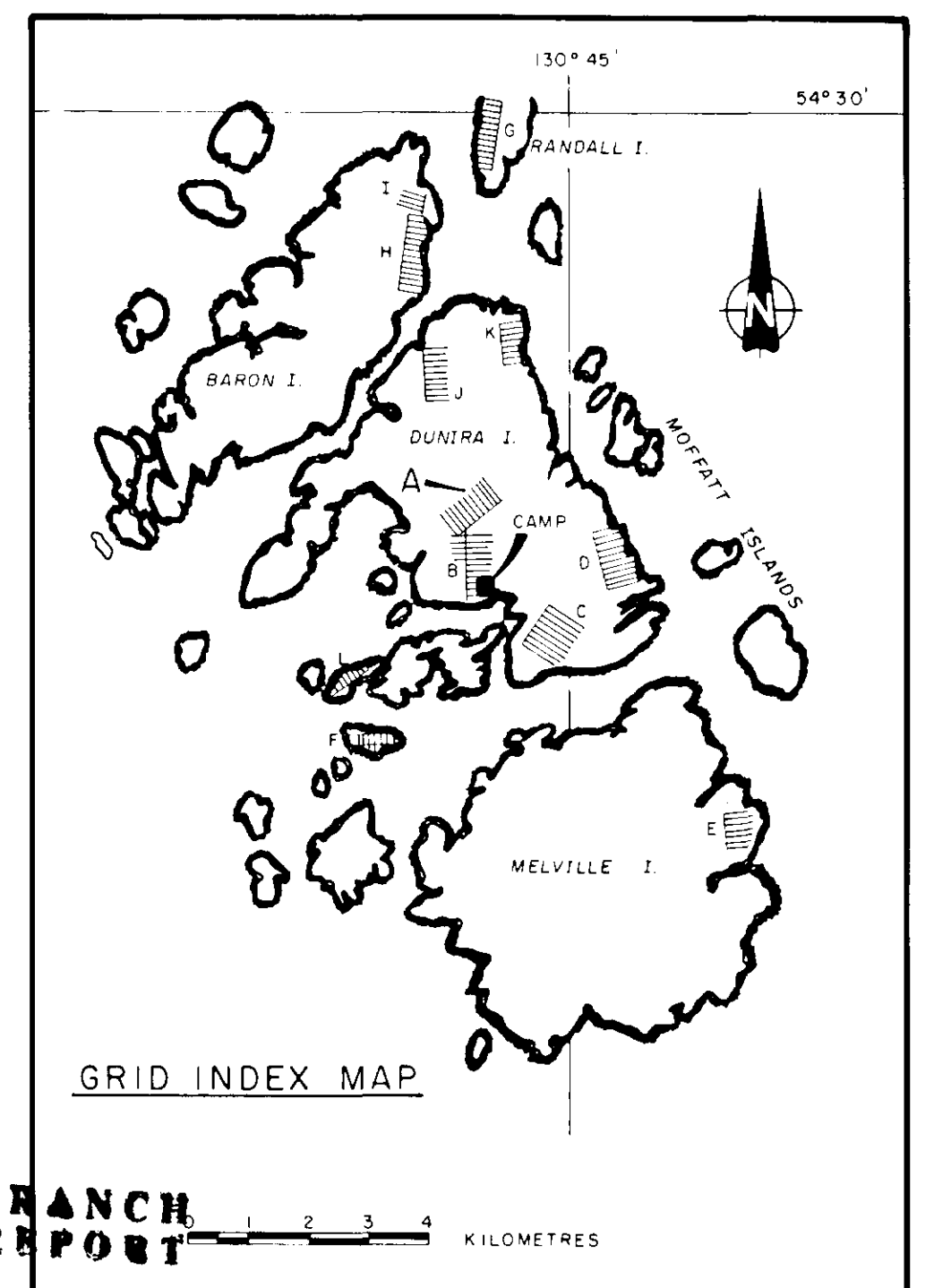
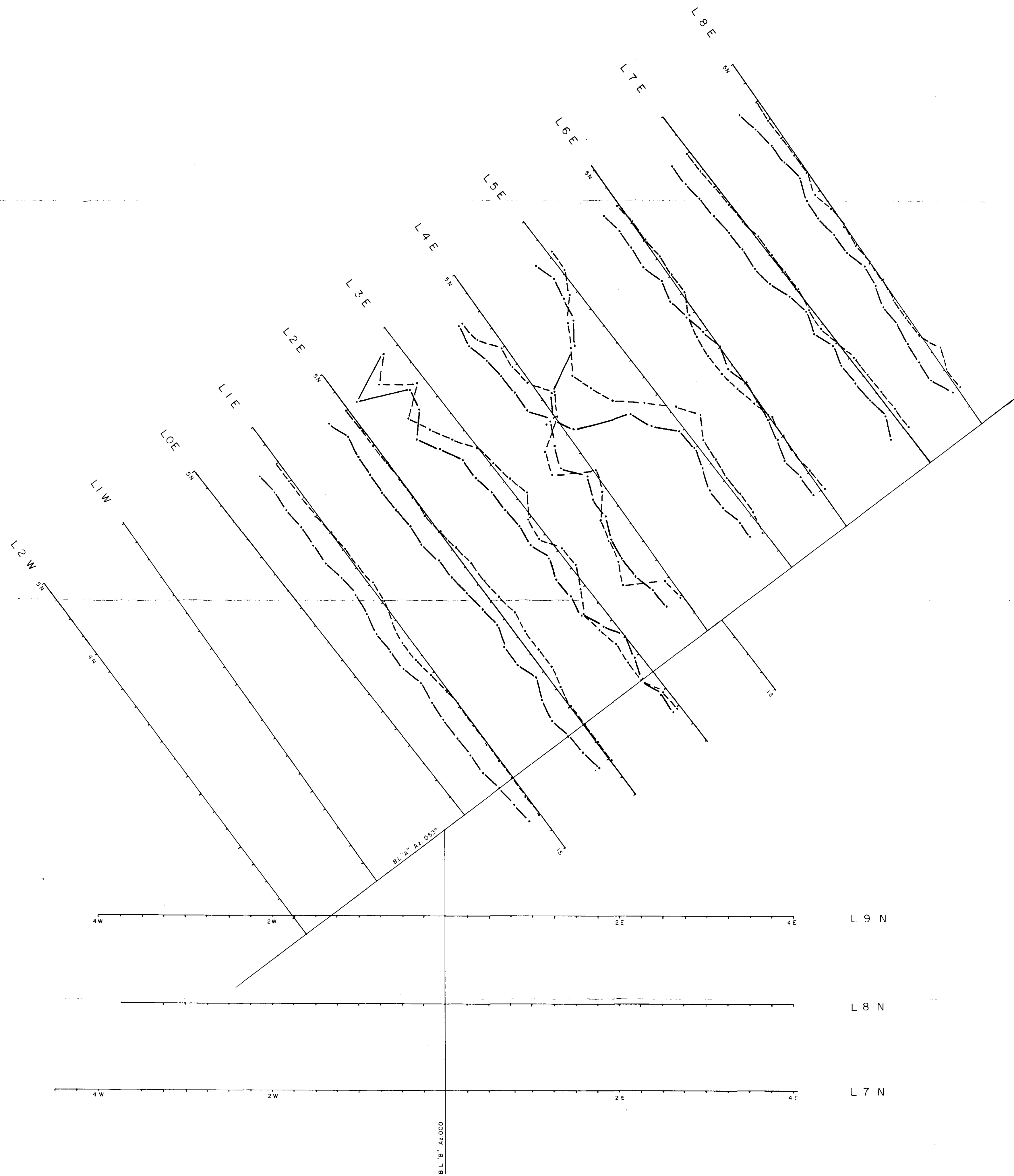
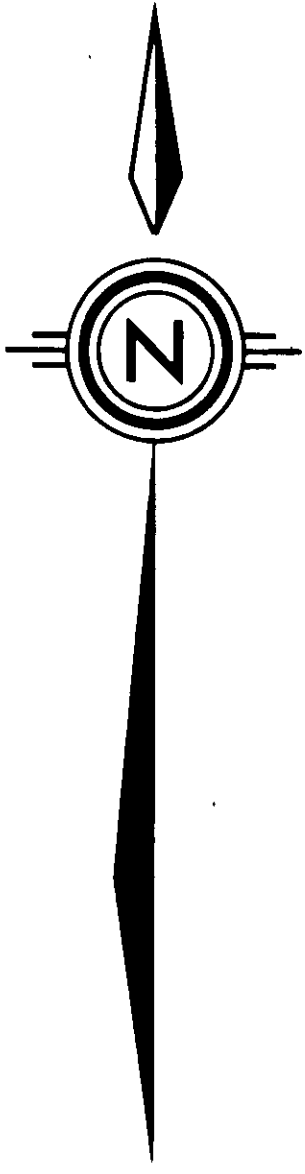
GRID A

VLF-EM SURVEY



BY: M. CARR / r.w.  
DATE: AUG., 1984

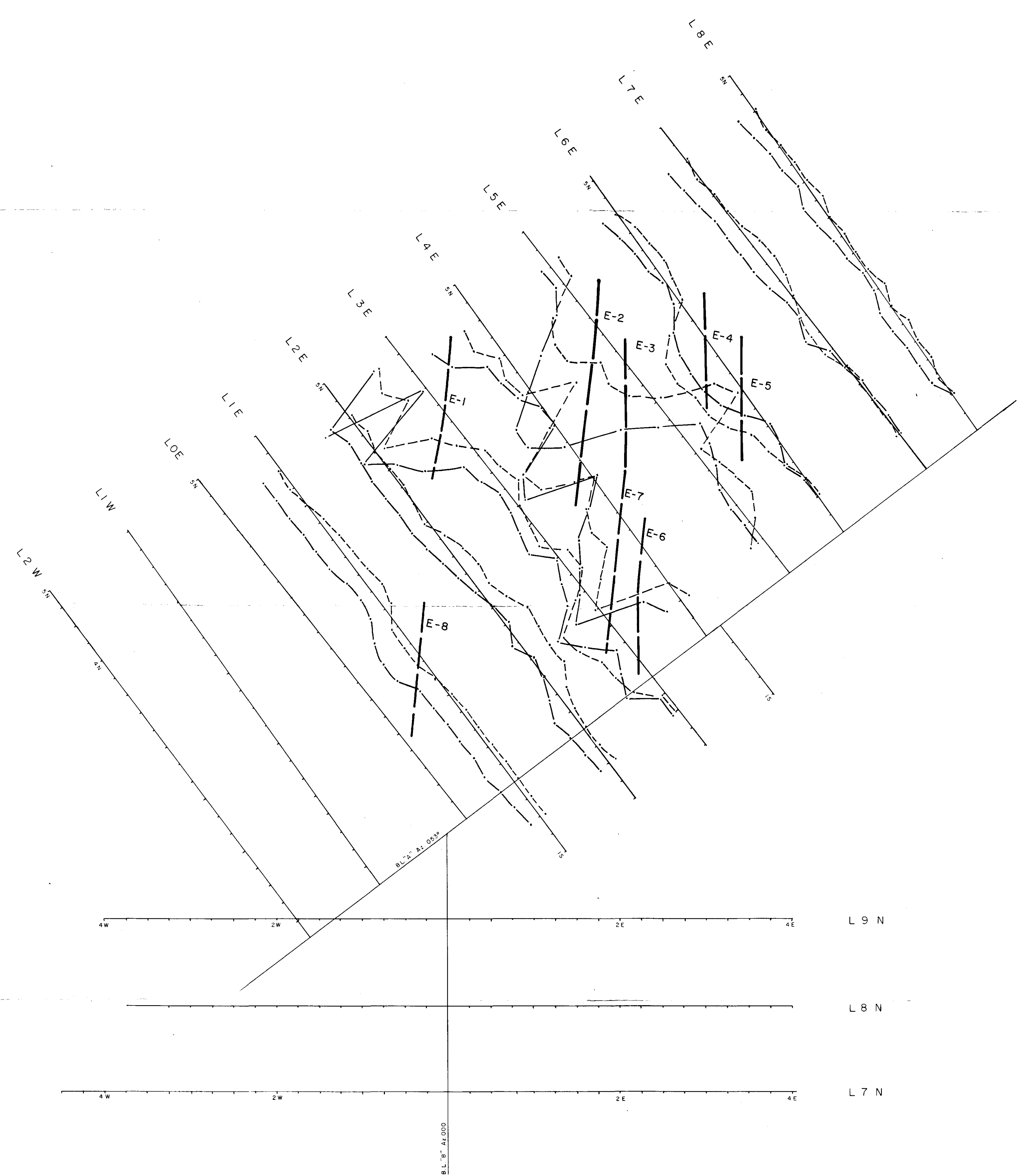
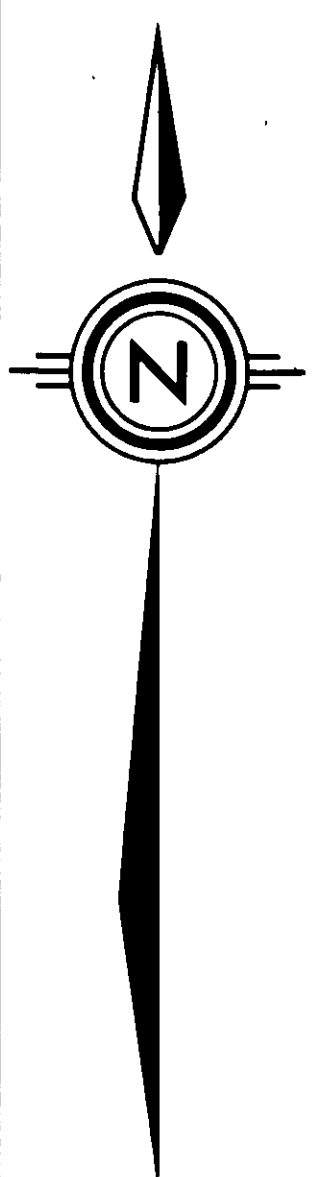
MAP NO. A-3b



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

12,777  
part 2  
of 2

BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND BC. NTS 103-J/7	
GRID <u>A</u> HORIZONTAL LOOP EM-SURVEY OP 444 Hz.	
50 0 100 200 METRES	
BY: M CARR/rwr DATE: AUG., 1984	MAP NO. A-3c

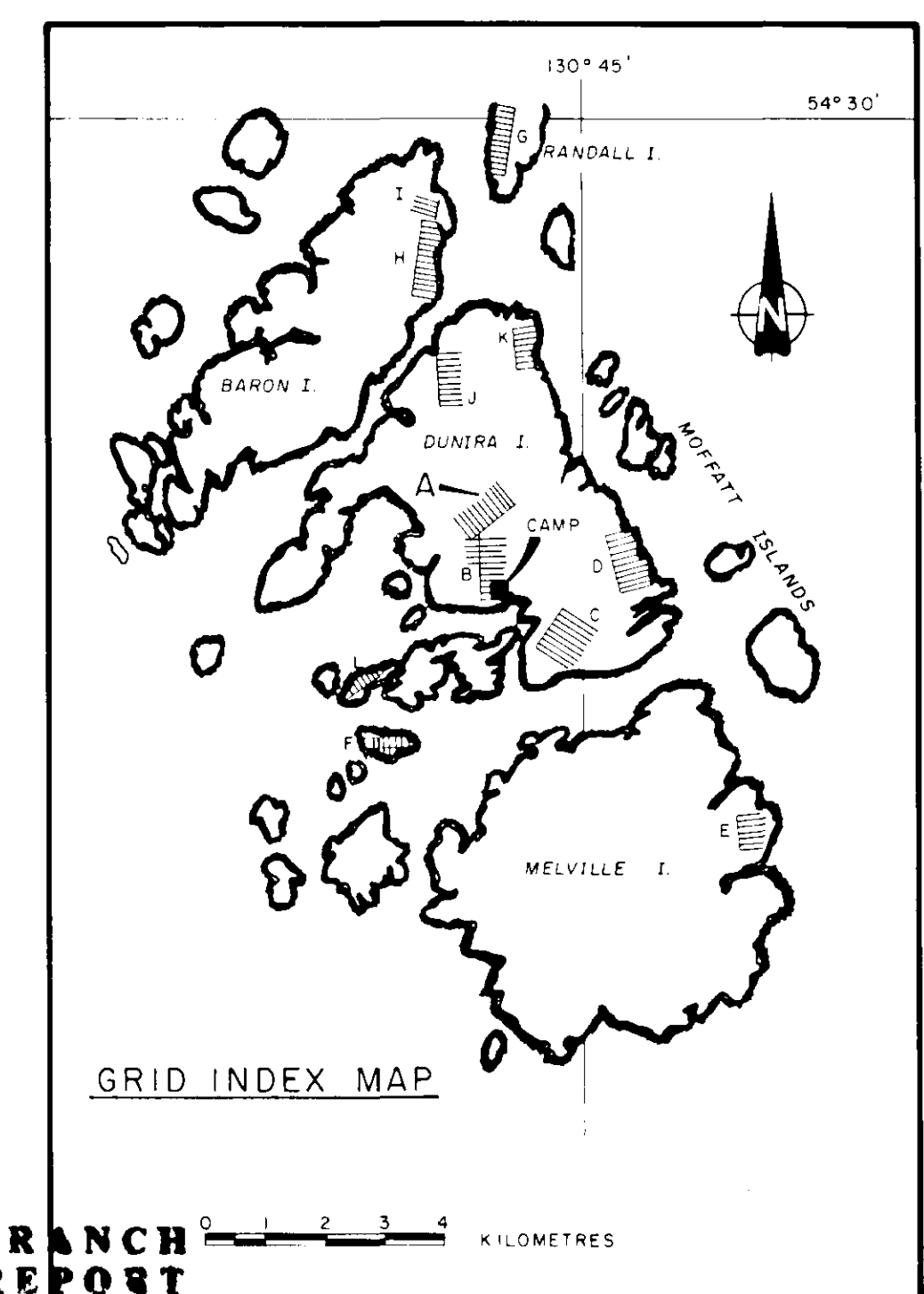


LEGEND:  
 INSTRUMENT: MAX-MIN 2  
 COIL SEPARATION = 100 METRES  
 CORRECTED FOR TOPOGRAPHY

10%  
 0  
 -10%

IN-PHASE  
 OUT OF PHASE

E-1 EM CONDUCTOR



**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

**12,777**  
*part 2  
 of 2*

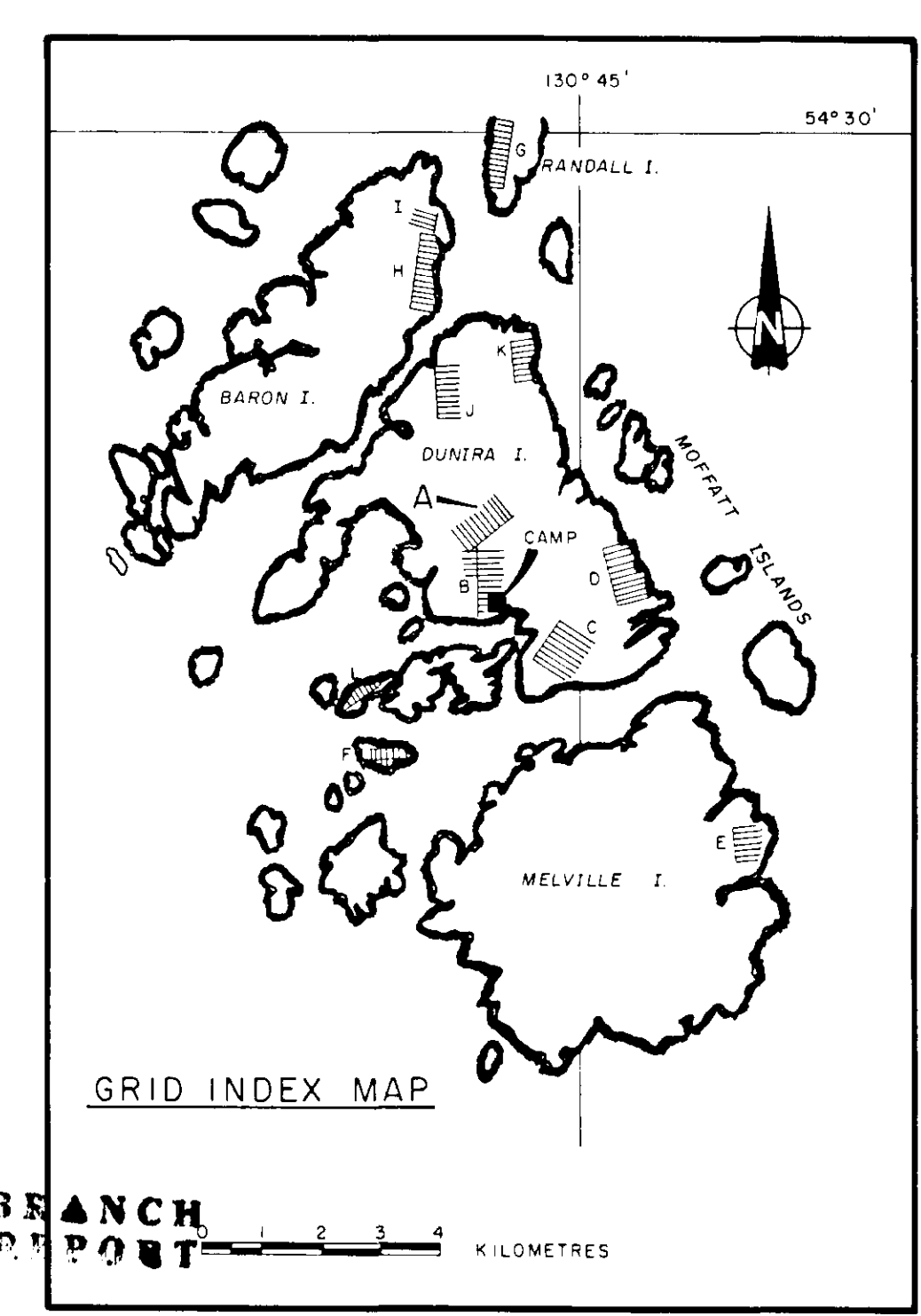
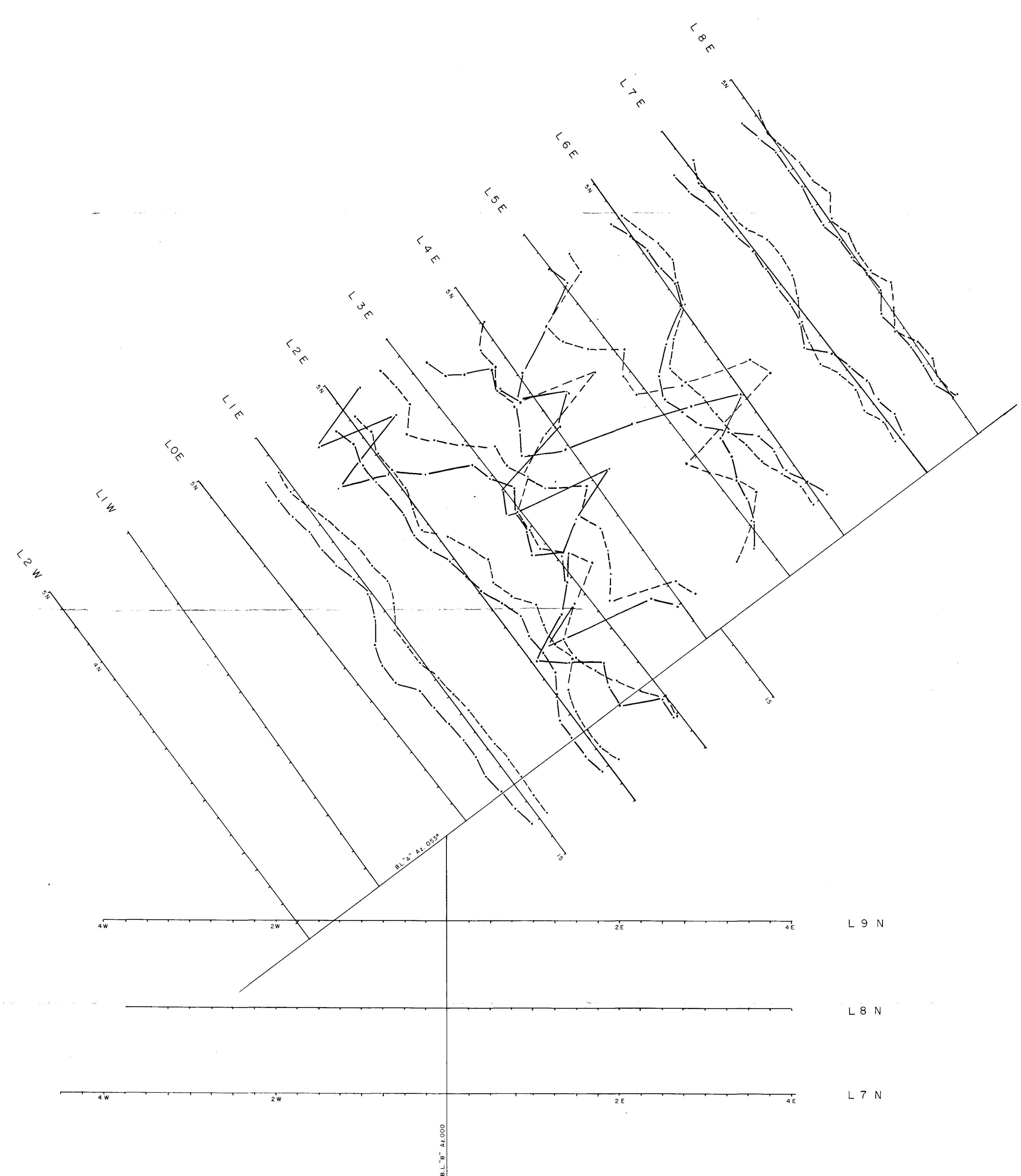
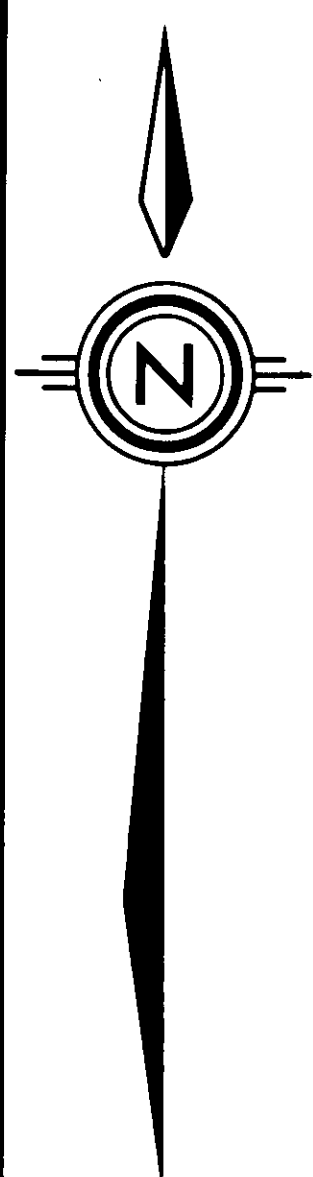
**BILLITON CANADA LTD.**  
 COAST COPPER PROJECT  
 DUNIRA ISLAND BC. NTS 103-J/7

**GRID A**  
 HORIZONTAL LOOP EM-SURVEY  
 OP 1777 Hz.

50 0 100 200 METRES

BY: M. CARR / rwr  
 DATE: AUG, 1984

MAP NO. A-3d



**12,777**  
part 2  
OF 2

**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**

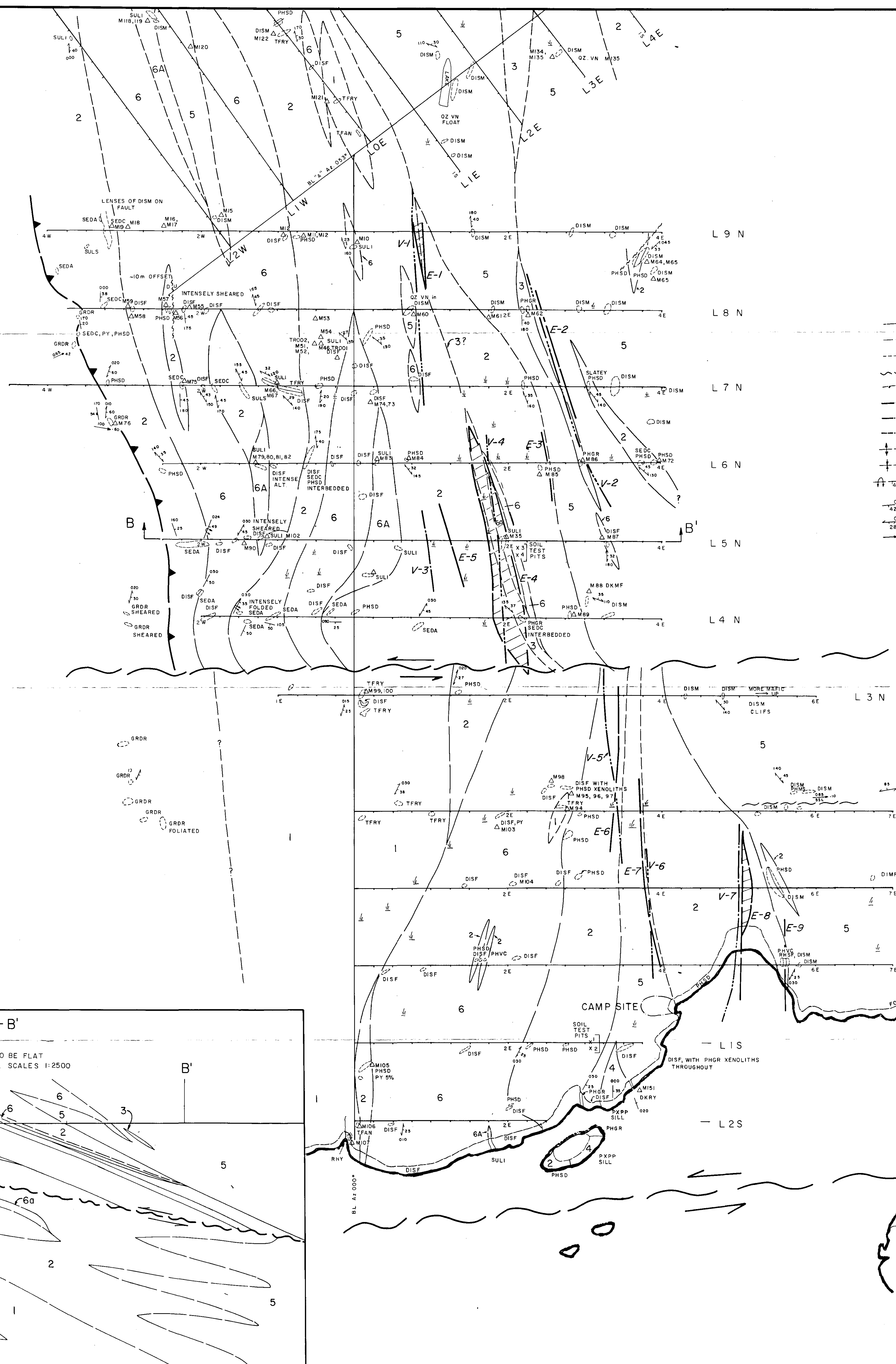
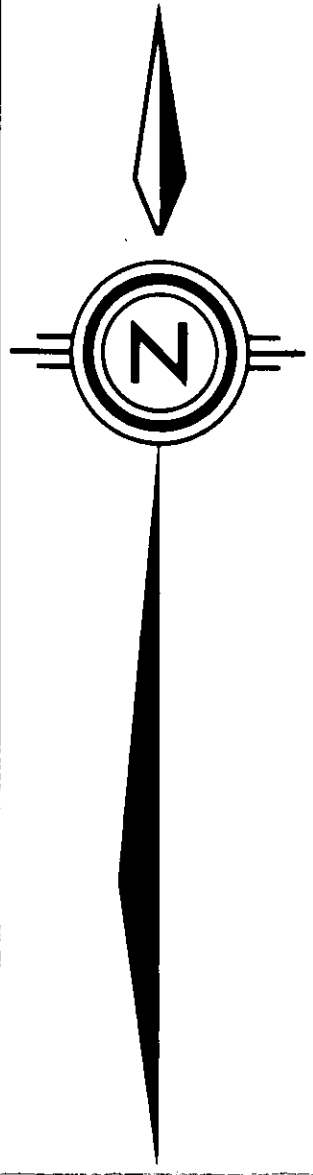
**BILLITON CANADA LTD.**  
COAST COPPER PROJECT  
DUNIRA ISLAND BC. NTS 103-J/7

**GRID A**  
HORIZONTAL LOOP EM-SURVEY  
OF 3555 Hz.

50 0 100 200 METRES

BY: M. CARR./kwr  
DATE: AUG., 1984

MAP NO. A-3e



**LEGEND:**

UNIT	DESCRIPTION
6	GRANODIORITE and GRANODIORITE SILLS: Massive sills are locally strongly pyritic Map Symbols - GRDR, DISF
6A	HORNfelsED SEDIMENTS of Unit 2, adjacent to sills. Map Symbol - SULI
5	DIOtITE SILLS, DYKES and PLUTONS: Variable mafic content, foliated Map Symbols - DISM, DADI, DIMP, DIOR, QZ DIOR
4	MAFIC FLOWS and SILLS: Pyroxene porphyry and biotite porphyry crystal lapilli tuffs and flows, agglomerates and minor pyroxenite sills Map Symbols - PHXP, DIPP
3	GRAPHITIC SHALES: Slaty, pyritic zones, forms lenses within Unit 2, occasional chert Map Symbols - PHGR, SEDC GR, SHALE
2	CHEMICAL and CLASTIC SEDIMENTS: Cherts, pyritic cherts, siltstones, sedimentary and volcanic phyllites, chert pebble conglomerates, volcanogenic sediments, sandstones, siltstones Map Symbols - SEDC, SULS, SEDA, PHSD, PHVC, SAND, COLS, SDVC, SST, SILT
1	FELSIC TUFFS: Rhyolite or andesite crystal tuffs. Map Symbols - TFRY, TRAN, RHY, TYDC, PHXP

Geological Contact		ROCK SAMPLE LOCATION
—	observed	△
- - -	approximate	○
- · - · -	assumed	○
- - -	Fault	○
- - -	Thrust Fault	○
—	HLEN or VLP-EM Conductor - weak (E)	○
—	VLP-EM Conductor - moderate (V)	○
—	VLP-EM Conductor - strong (V)	○
—	Anticlinal Axis	○
—	Synclinal Axis	○
—	Overturned Anticlinal Axis with dip of axial plane and plunge of hinge line	○
—	Strike and dip of bedding	○
—	Strike and dip of foliation	○
—	Asimuth and plunge of lineation	○

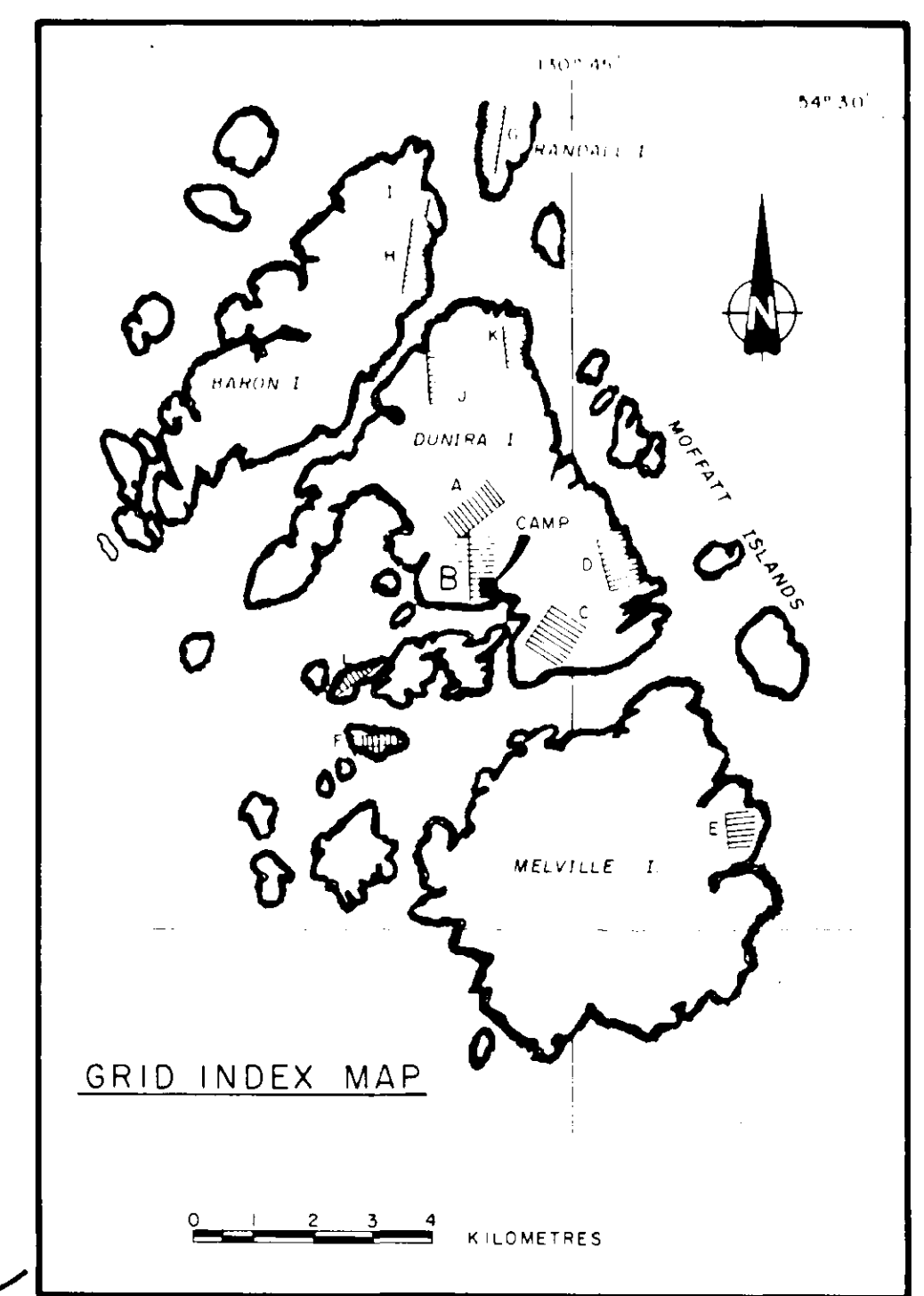
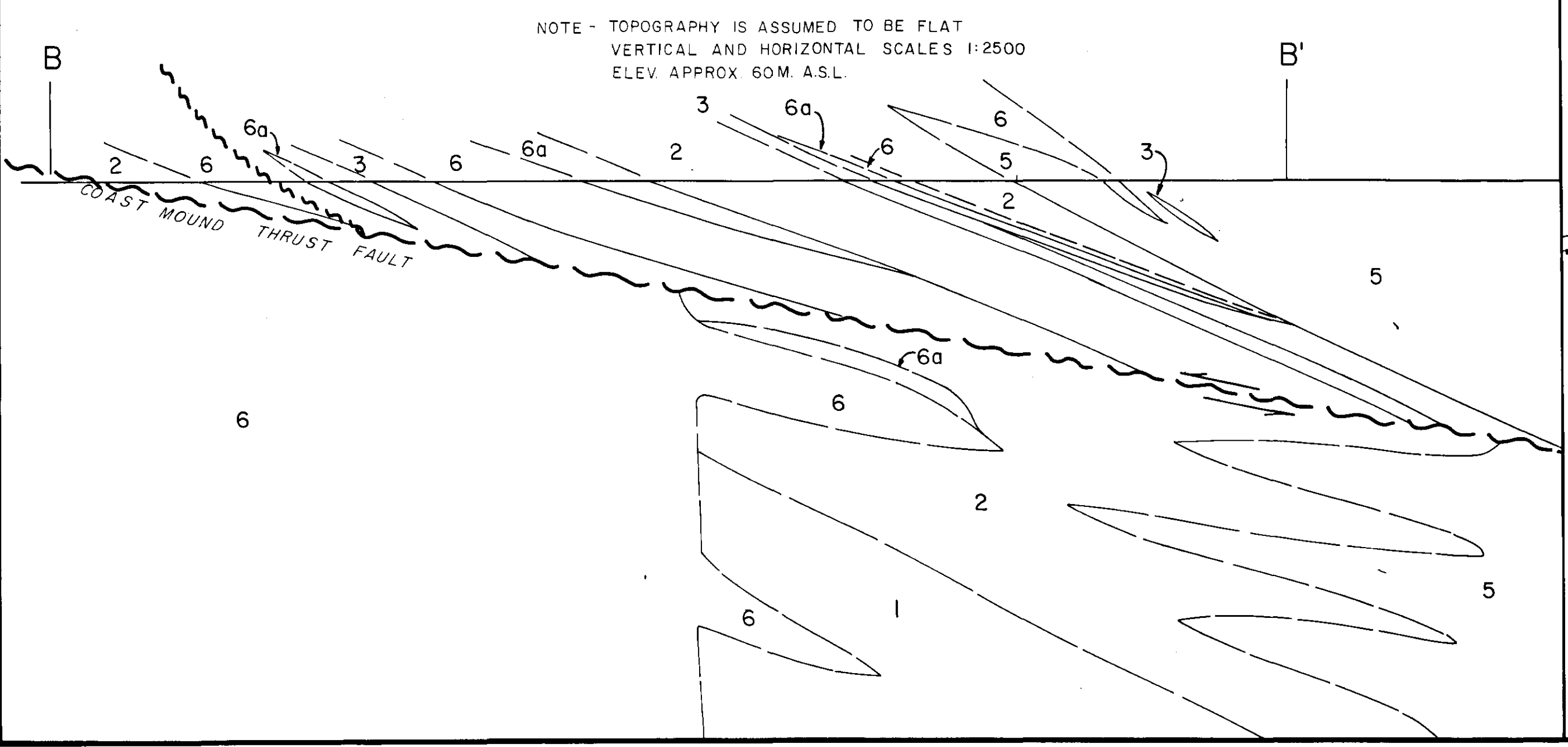
**MINERAL ABBREVIATIONS AND NOTATIONS**

ALT	alteration	LAM	laminated
BI	biotite	MP	mafic
BLK	black	MS	sericite
BO	bornite	MU	muscovite
BRXX	breccia	PO	pyrrhotite
CB	calcite	PP	phenocrysts
CL	chlorite	PX	pyroxene
CP	chalcopyrite	PY	pyrite
DC	dacite	QTZ	quartz
FOL	foliated	SERP	serpentine
GL	galena	SHR	sheared
GR	graphite	SIC	silicified
GS	grey sulphide	SIF	sulfidized
GY	grey	SP	sphalerite
HB	hornblende	VN	vein
KA	kaolinite		

**ROCK GEOCHEMISTRY:**

SAMPLE NUMBER	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Ba (ppm)
M 10	35	9	10	0.4	
M 20					
M 21					
M 22					
M 23					
M 24					
M 25					
M 26					
M 27					
M 28					
M 29					
M 30					
M 31					
M 32					
M 33					
M 34					
M 35	12	14	26	0.2	
M 36					
M 37					
M 38					
M 39					
M 40					
M 41					
M 42					
M 43					
M 44					
M 45	4	10	24	0.1	
M 46	91	22	14	0.3	
M 50	74	130	179	N/A	
M 51	9	19	114	N/A	
M 52	7	12	92	N/A	
M 53	38	13	11	N/A	
M 57	39	9	54	0.4	
M 60	11	5	9	0.2	1330
M 61	10	21	136	0.7	
M 63	13	19	79	0.6	
M 64	77	172	32	0.4	
M 66	56	11	29	N/A	
M 72	184	48	700	1.3	
M 80	49	25	18	0.7	
M 97	81	21	225	1.4	
M 98	12	12	94	0.6	
M 99	46	21	44	1.6	
M102	11	12	15	0.6	
M118	76	10	86	1.0	
M134	7	12	216	0.6	
M135	8	4	36	0.4	

**CROSS SECTION B-B'**  
LOOKING NORTH



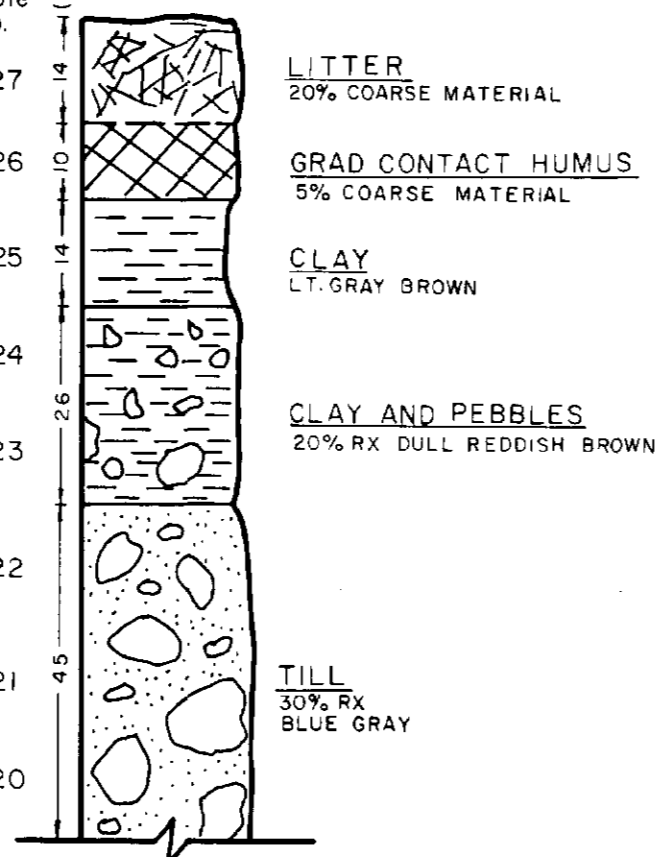
**BILLITON CANADA LTD.**  
COAST COPPER PROJECT  
DUNNARA ISLAND B.C. NTS 103-U/7  
**REPORT** **GRID B**  
GEOLOGY MAP  
12,777  
part 2 of 2  
50 0 100 200 METRES  
BY: M CARR / rwr  
DATE: AUG, 1984  
MAP NO. B-1



### TEST PIT #1

GRID B 1+00S  
3+10E

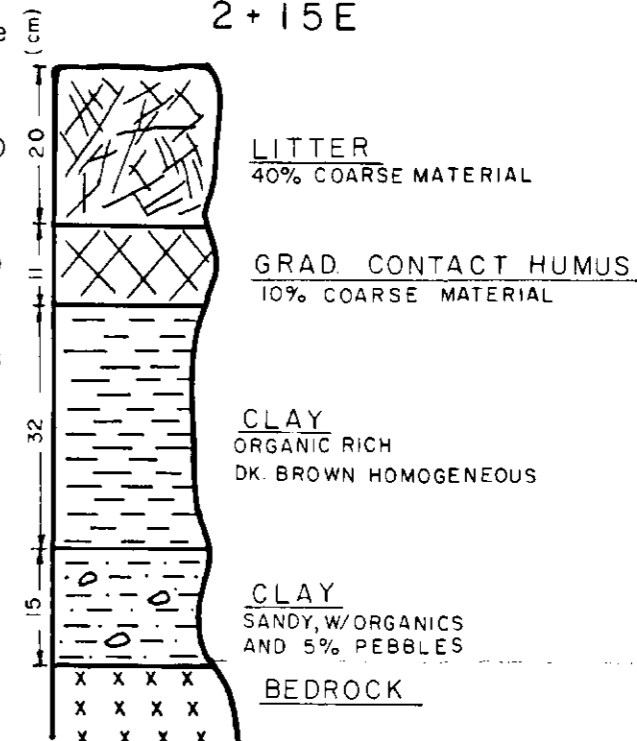
Cu ppm.	Pb ppm.	Zn ppm.	Ag ppm.	As ppm.	Sample No.
10	8	16	0.2	1	M 27
10	6	12	0.2	3	M 26
4	8	6	0.1	2	M 25
8	18	16	0.2	2	M 24
14	20	56	0.2	3	M 23
40	29	170	0.3	3	M 22
54	26	230	0.4	5	M 21
50	20	124	0.4	4	M 20



### TEST PIT #3

GRID B 5+30N  
2+15E

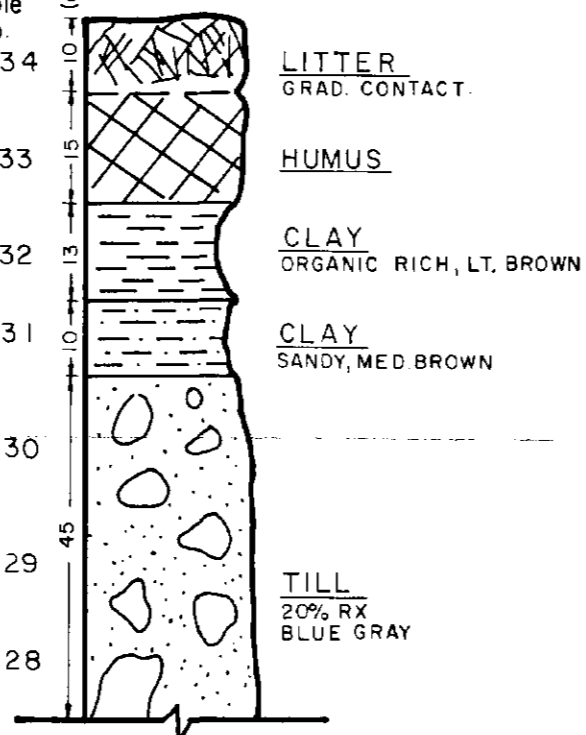
Cu ppm.	Pb ppm.	Zn ppm.	Ag ppm.	As ppm.	Sample No.
10	2	10	0.1	<1	M 40
12	9	8	0.1	2	M 39
8	15	4	0.1	3	M 38
29	14	5	0.2	3	M 37
34	14	24	0.2	3	M 36



### TEST PIT #2

GRID B 1+10S  
3+10E

Cu ppm.	Pb ppm.	Zn ppm.	Ag ppm.	As ppm.	Sample No.
8	9	21	0.1	3	M 34
12	6	16	0.1	5	M 33
3	6	4	0.1	4	M 32
4	6	4	0.1	2	M 31
16	16	36	0.2	3	M 30
36	22	82	0.4	2	M 29
51	30	160	0.4	2	M 28



### TEST PIT #4

GRID B 5+40N  
2+20E

Cu ppm.	Pb ppm.	Zn ppm.	Ag ppm.	As ppm.	Sample No.
10	2	10	0.1	<1	M 44
4	10	9	0.1	2	M 43
14	9	29	0.1	2	M 42
100	23	92	0.5	7	M 41



LABORATORY BRANCH  
ANALYSIS REPORT

12,777  
part 2 of 2

BILLITON CANADA LTD.

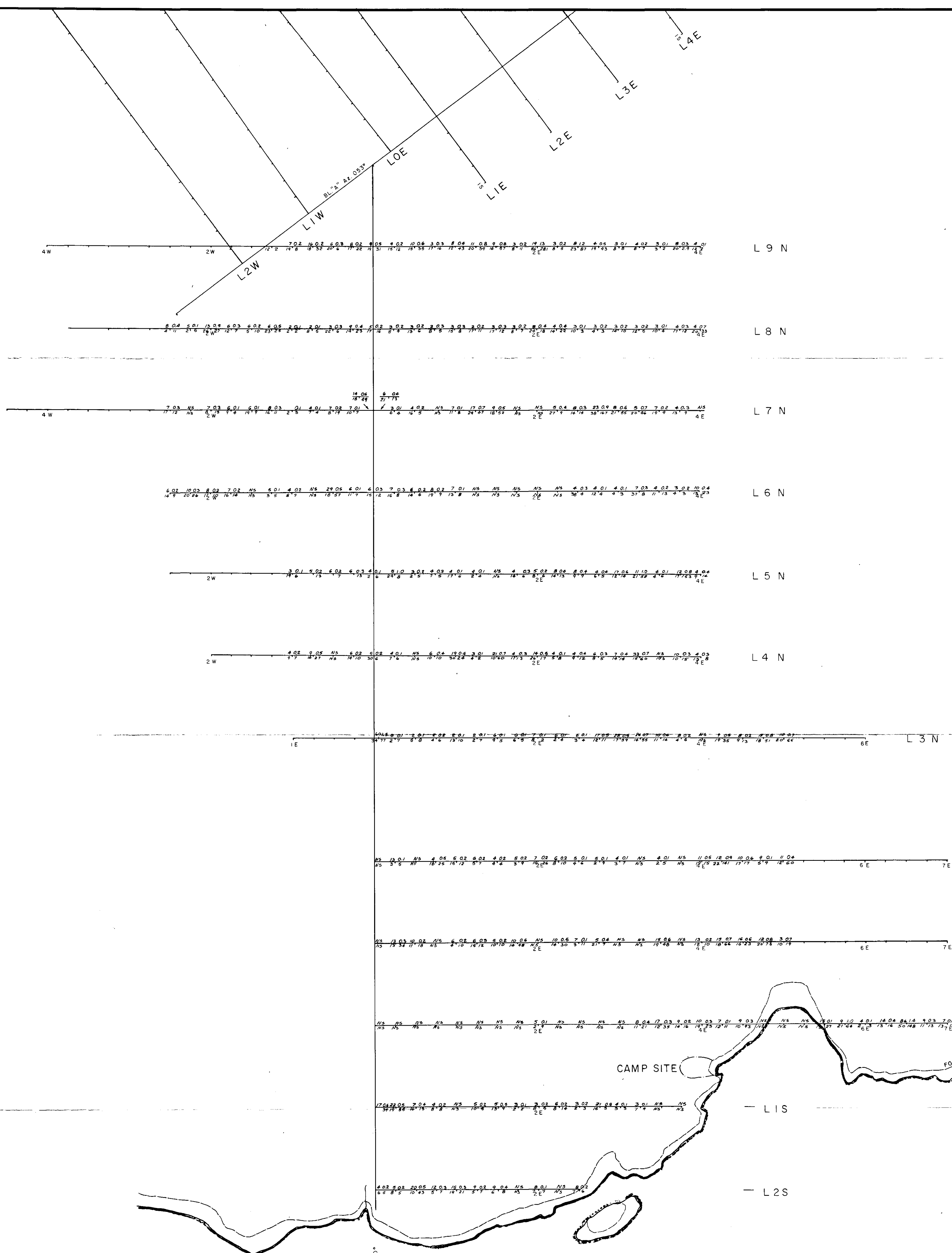
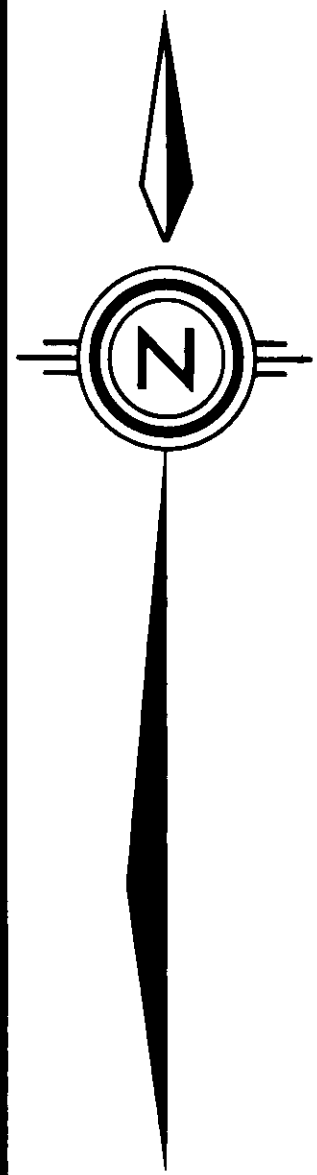
COAST COPPER PROJECT  
DUNIRA ISLAND BC. NTS 103-J/7

TEST PITS No. 1-4

BY: M. CARR/r.w.r.

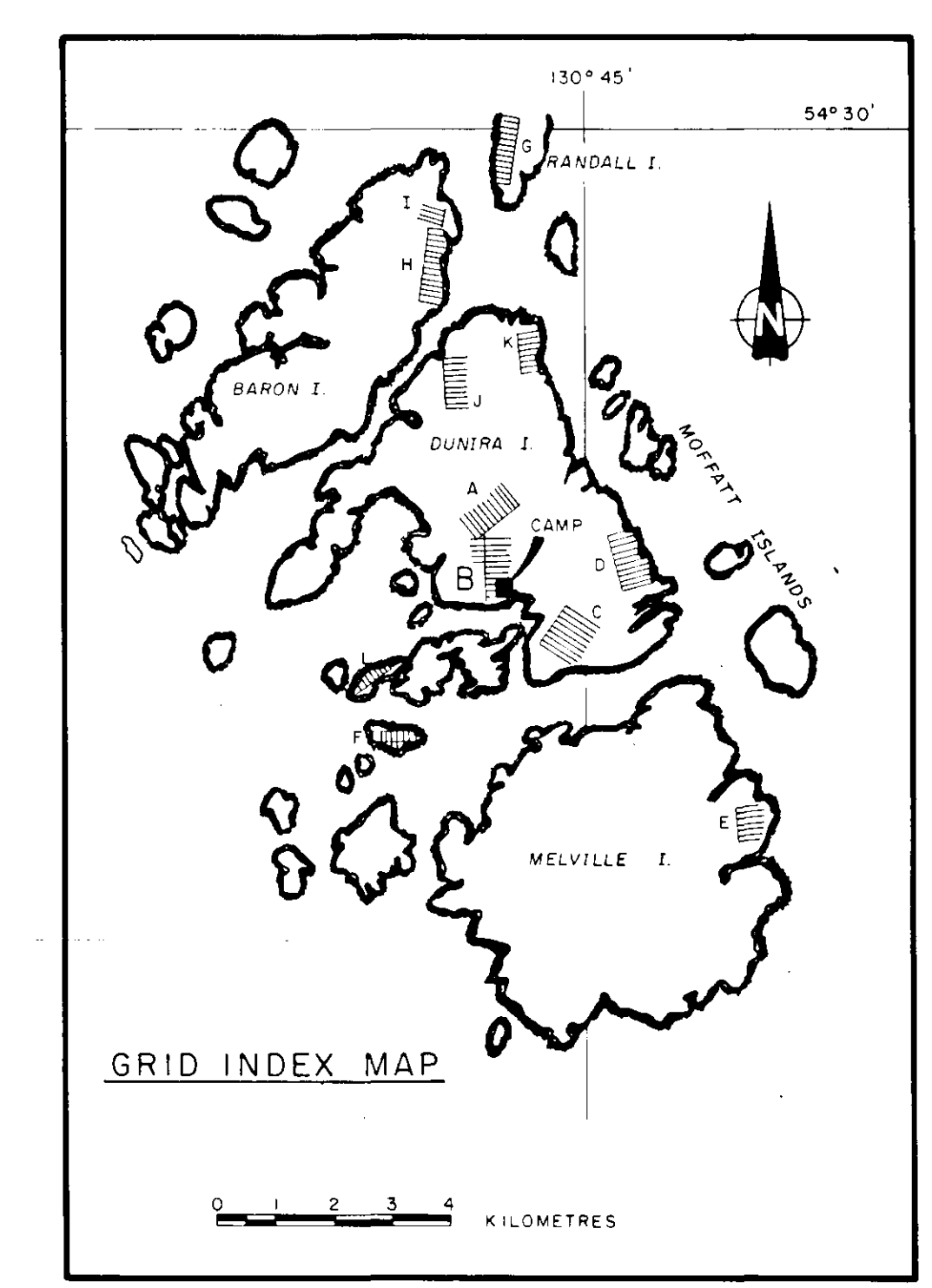
DATE: AUG 1984

MAP NO. B-2a



**LEGEND:**

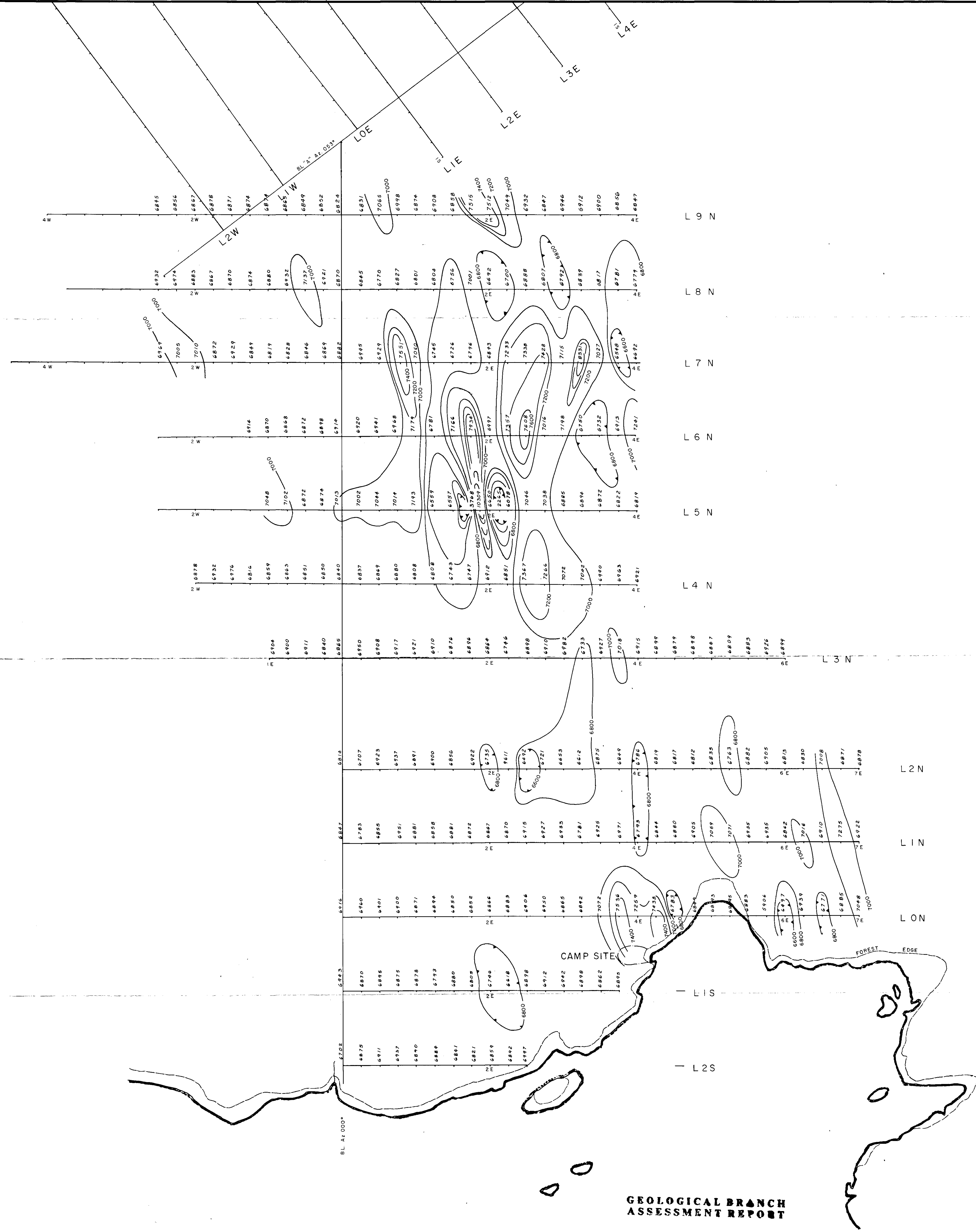
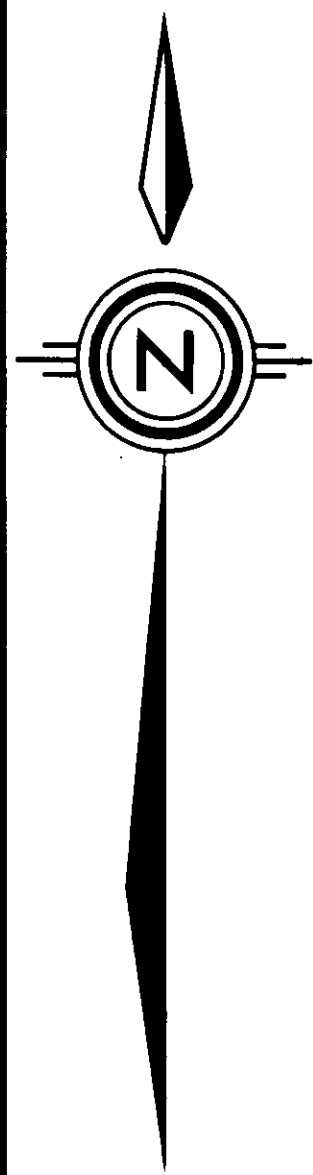
4 0.1 Cu Ag VALUES IN P.P.M.  
 12 29 Pb Zn  
 NS = NO SAMPLE TAKEN.



**BILLITON CANADA LTD.**  
 COAST COPPER PROJECT  
 MELVILLE ISLAND B.C. NTS 103-J/7  
**REPORT**  
**GRID B**  
 5071 GEOCHEMICAL SURVEY  
 Cu, Ag, Pb & Zn RESULTS

50 0 100 200 METRES  
 BY: M. CARR / rwr  
 DATE: AUG., 1984  
 MAP NO. B-2b

**12,777**  
 Part 2  
 OF 2



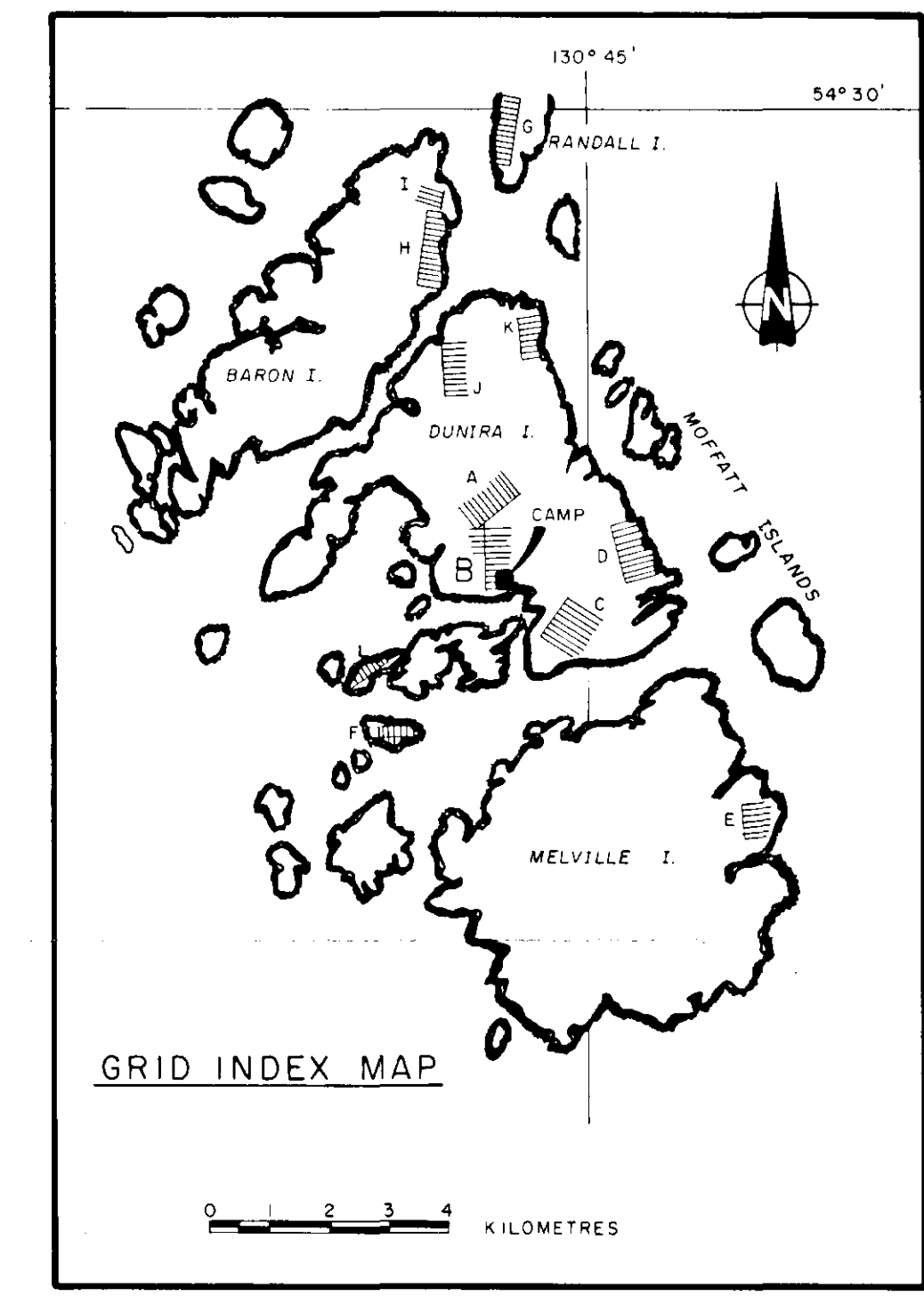
**LEGEND:**

OPERATOR - J MONGER

INSTRUMENT : GSM-8 MAGNETOMETER

CONTOUR INTERVAL = 200 GAMMAS

NOTE: ADD 50,000 GAMMAS TO ALL VALUES

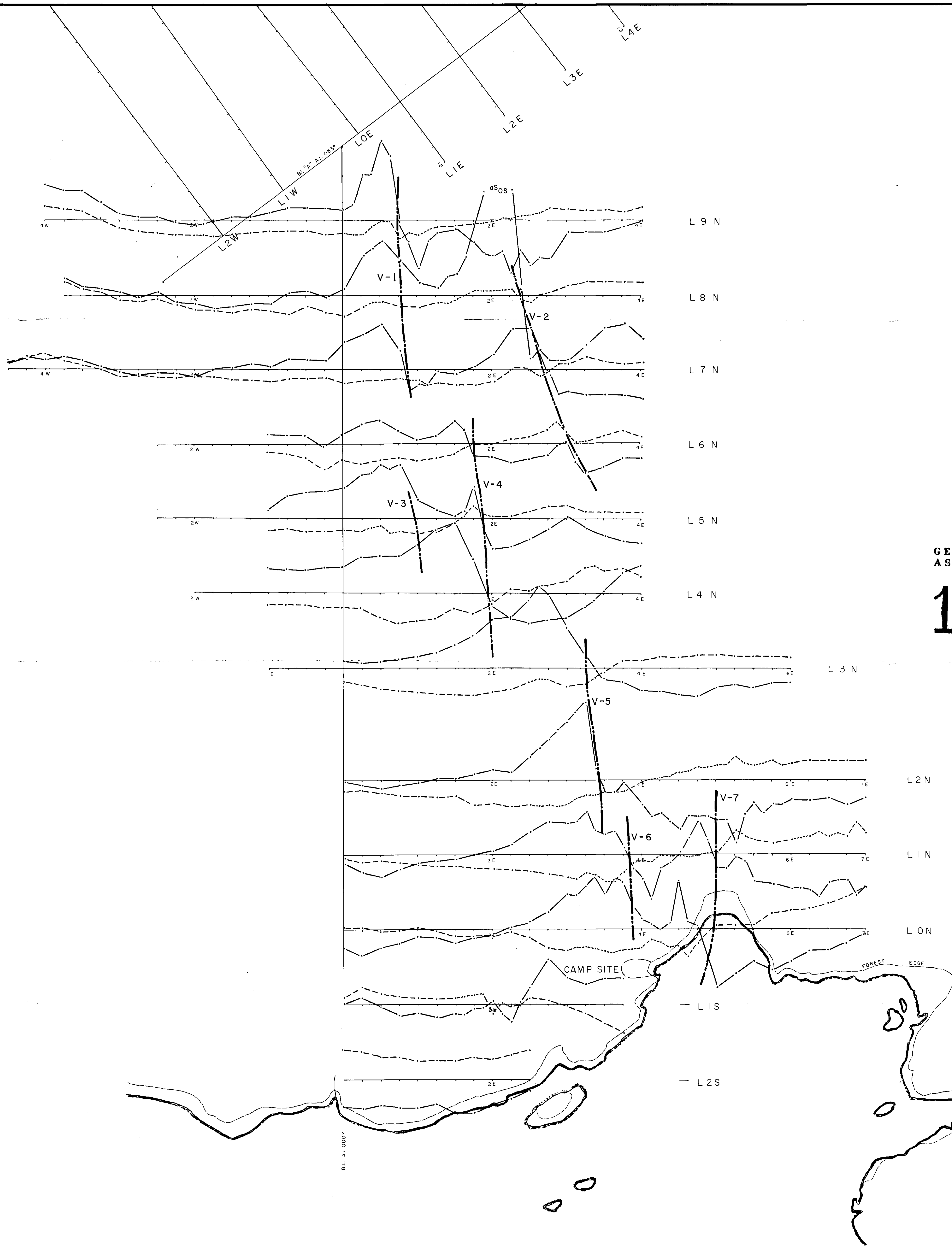
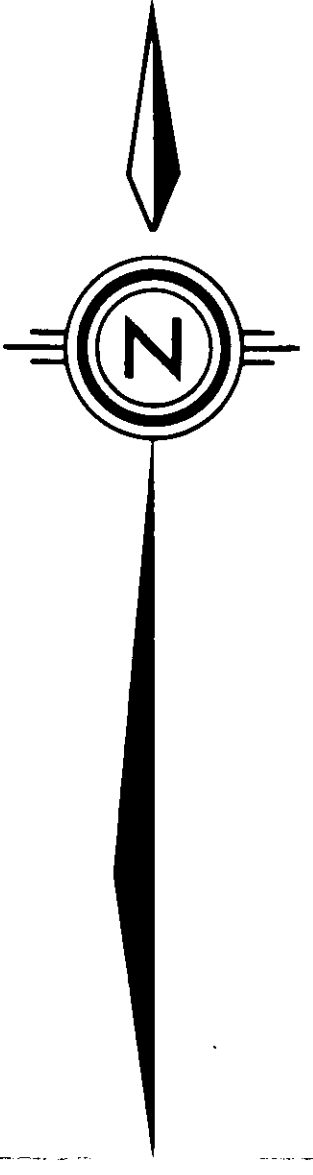


**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**12,777**

*part 2 of 2*

<b>BILLITON CANADA LTD.</b>	
COAST COPPER PROJECT DUNIRA ISLAND BC. NTS 103-J/7	
<b>GRID B</b>	
PROTON PRESSION MAGNETOMETER SURVEY	
BY: M. CARR / rwr	MAP NO. B-30
DATE: AUG., 1984	



**LEGEND :**

INSTRUMENT: EM-16  
 COIL SEPARATION = 100m  
 STATION: NLK SEATTLE  
 FACING EAST

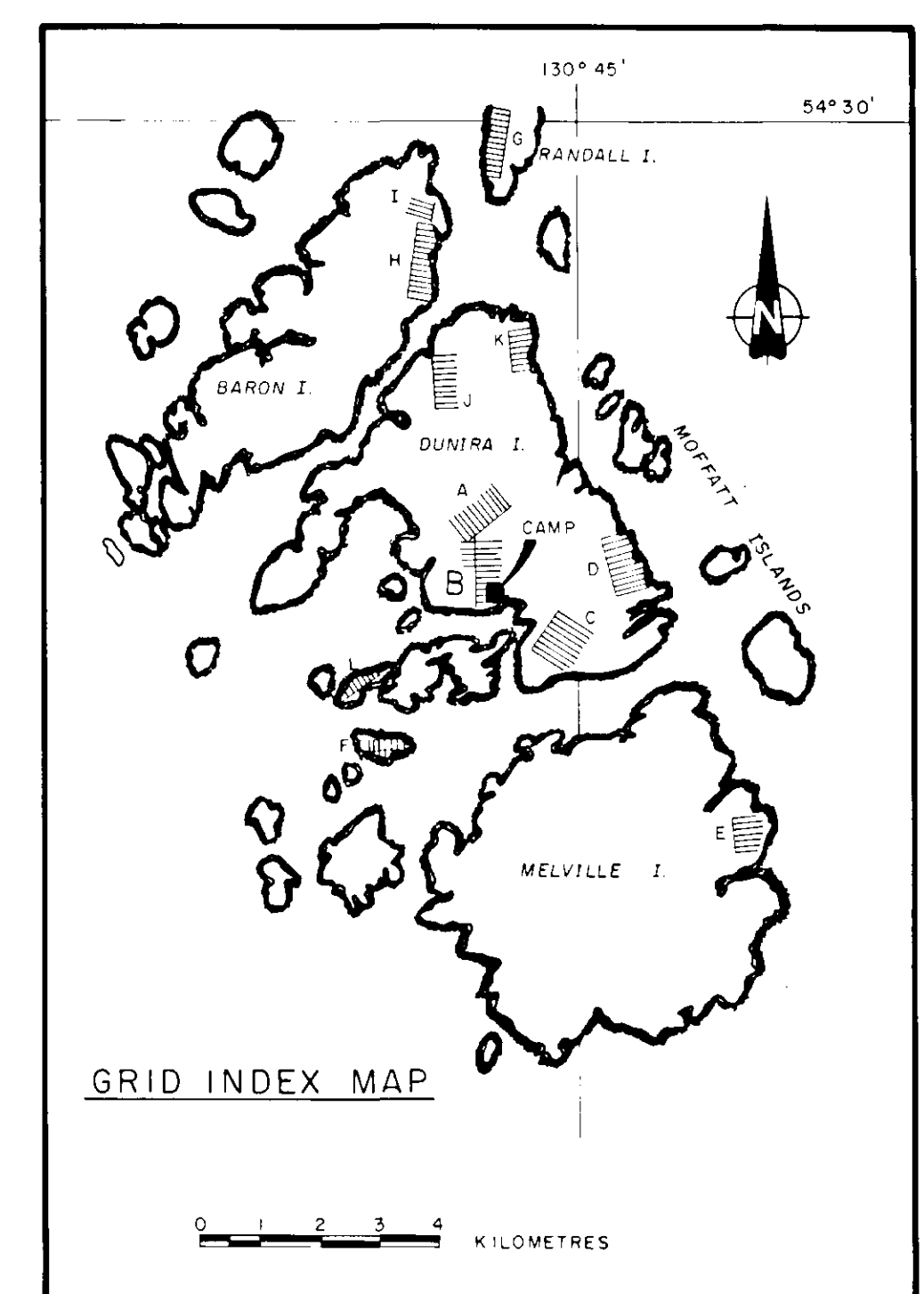
**PROFILE SCALE**

IN-PHASE PROFILE  
 QUADRATURE PROFILE

--- WEAK CONDUCTOR  
 - - - MODERATELY STRONG CONDUCTOR  
 - · - · - STRONG CONDUCTOR

**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

**12,777 part 2  
 of 2**



**BILLITON CANADA LTD.**

COAST COPPER PROJECT  
 DUNIRA ISLAND B.C. NTS 103-J/7

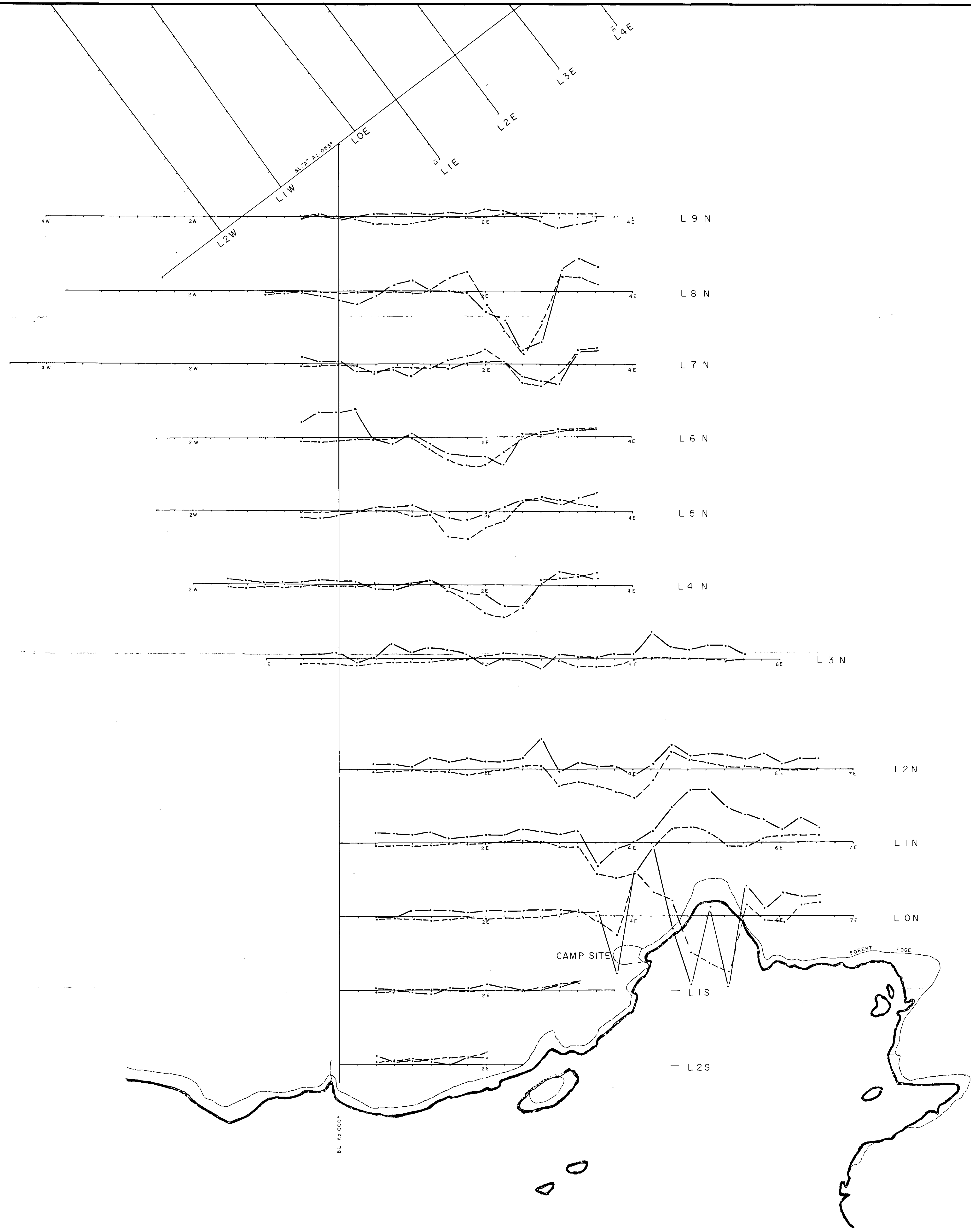
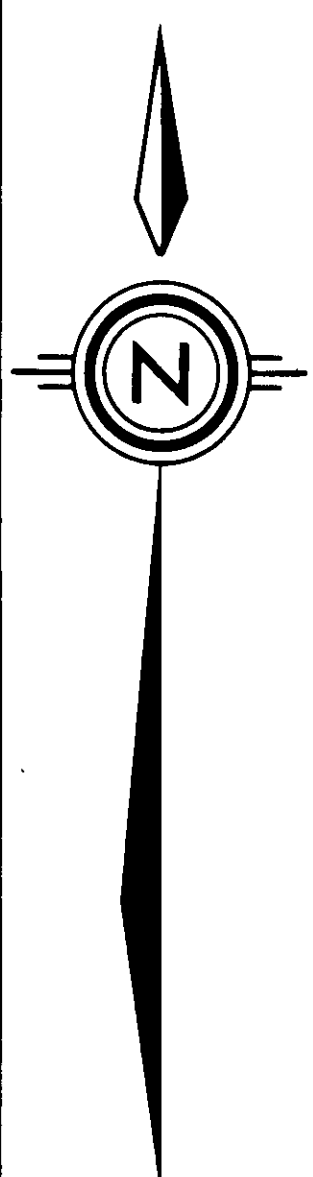
**GRID B**

VLF-EM SURVEY

50 0 100 200 METRES

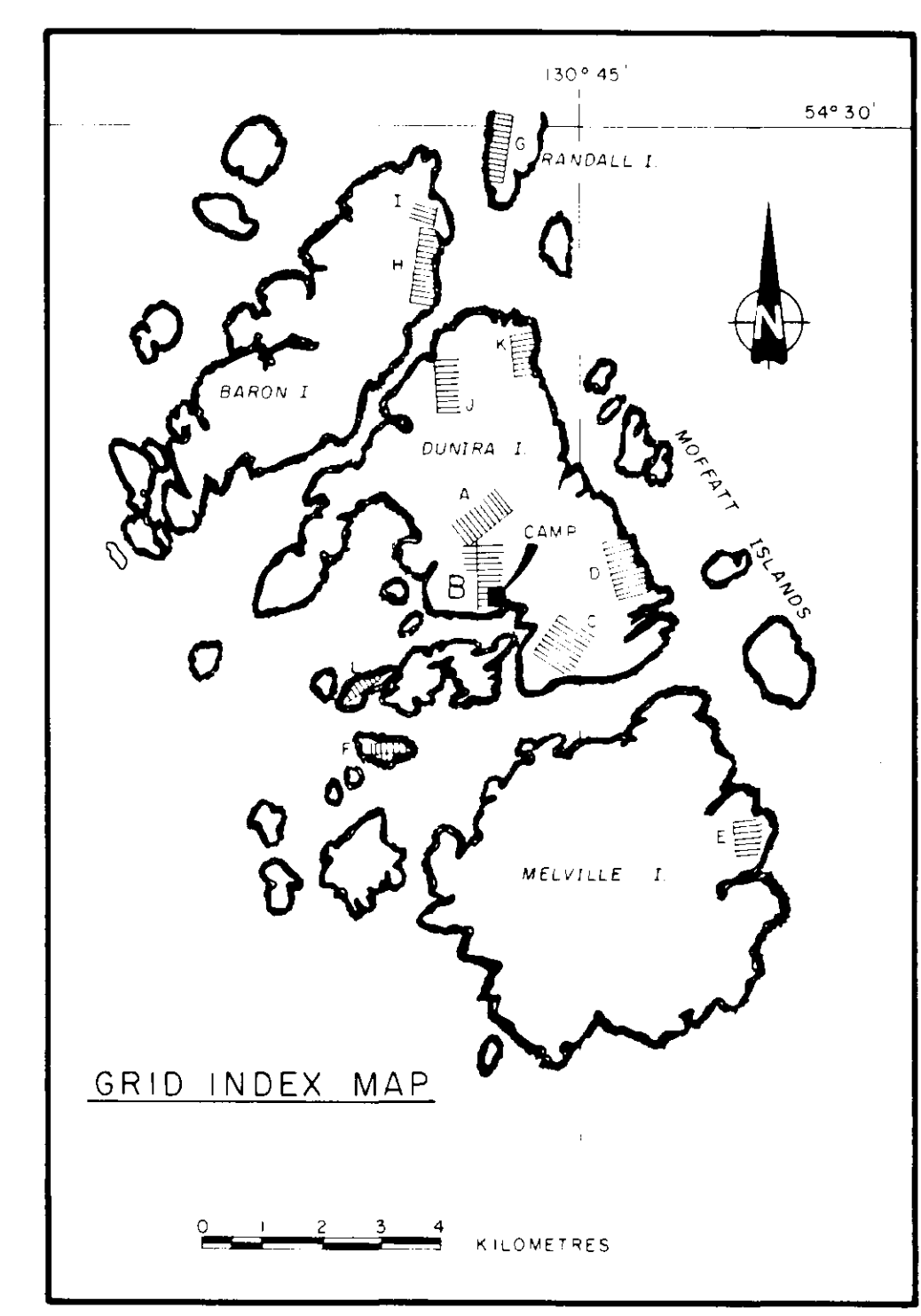
BY: M. CARR / rwr  
 DATE: AUG, 1984

MAP NO. B-3b

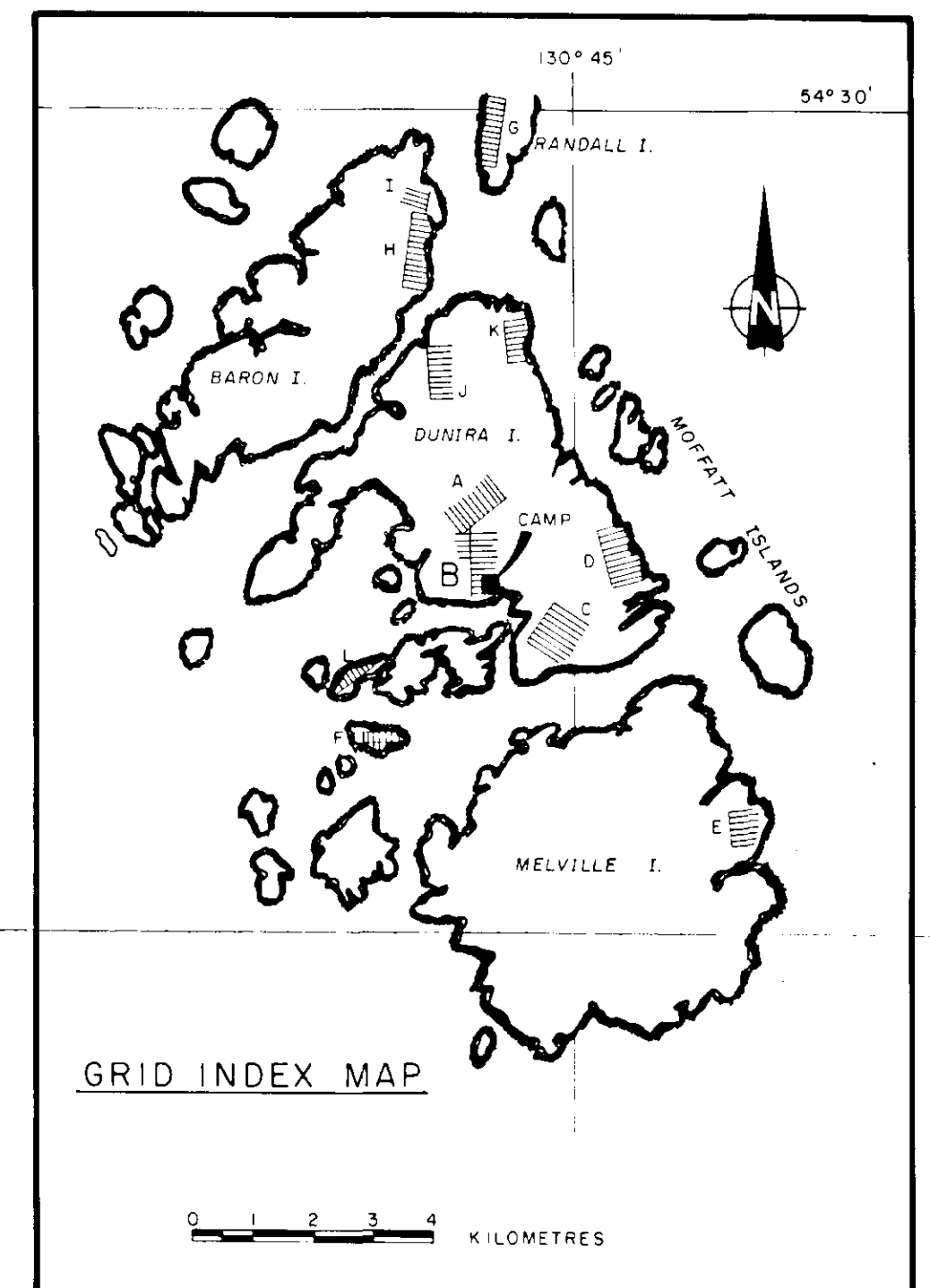
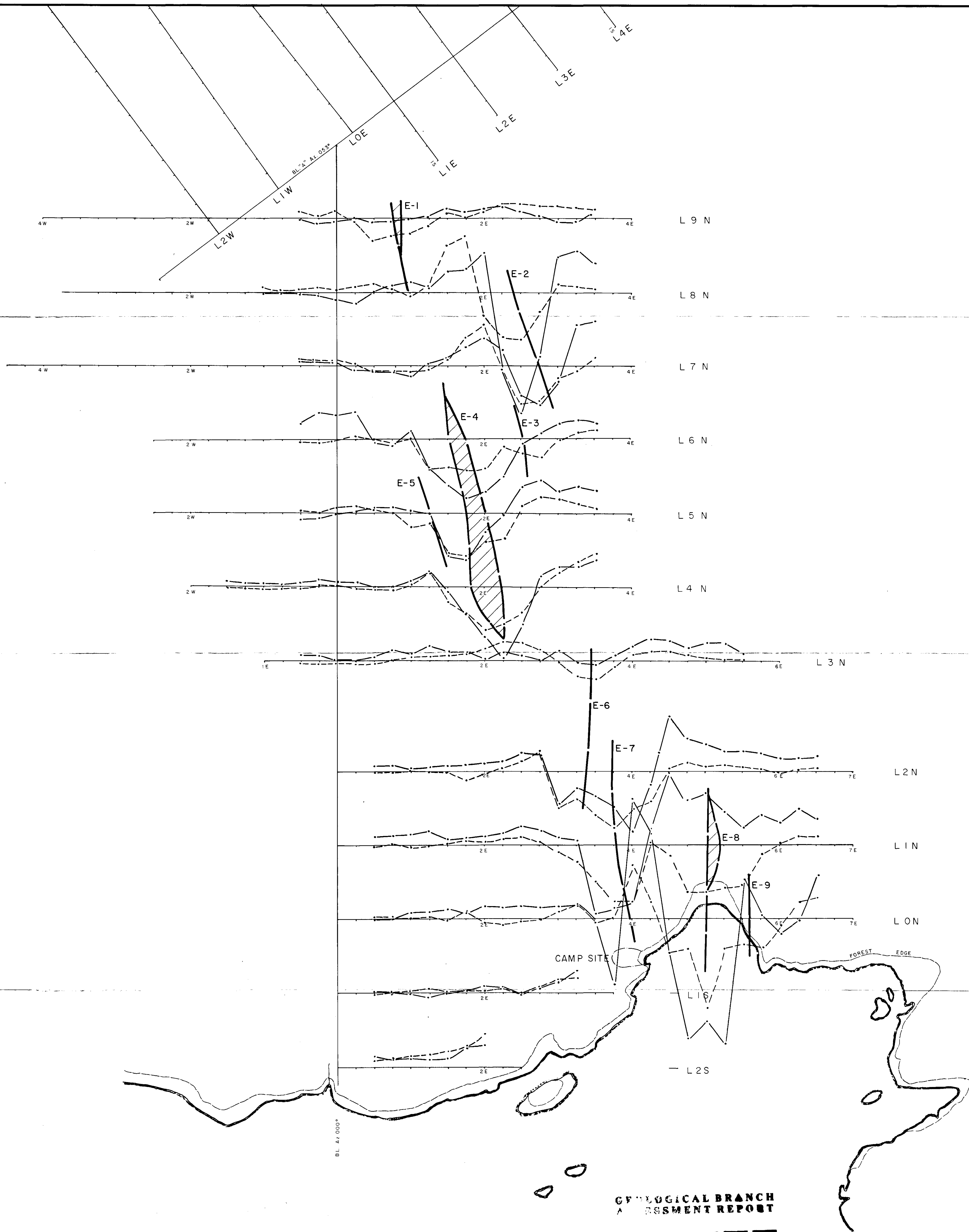
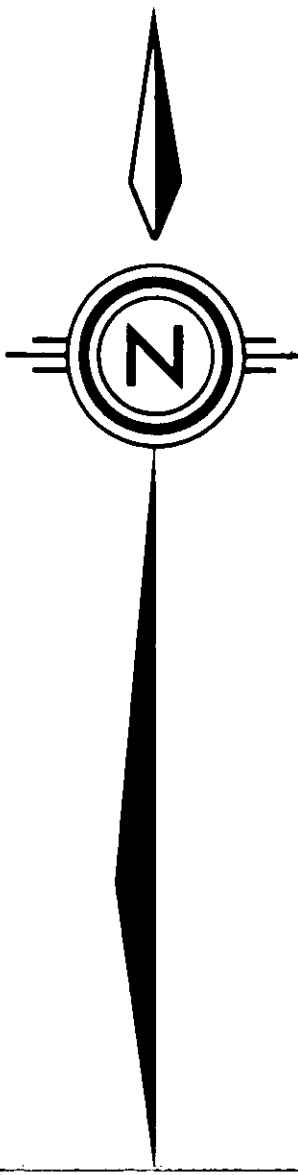


GEOLOGICAL BRANCH  
ASSESSMENT REPORT

12,777  
part 2 of 2



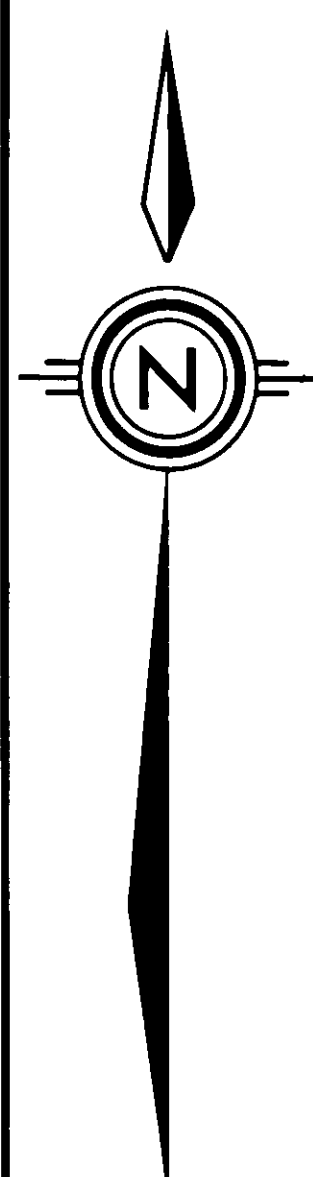
BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND B.C. NTS 103-J/7	
GRID <u>B</u>	
HORIZONTAL LOOP EM-SURVEY OP 444 Hz.	
50 0 100 200 METRES	
BY: M CARR / rwr	MAP NO. B-3e
DATE: AUG, 1984	



GEOLOGICAL BRANCH  
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BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND BC. NTS 103-J/7	
GRID B	
HORIZONTAL LOOP EM-SURVEY OP 1777 Hz.	
50 0 100 200 METRES	
BY: M. CARR / r.w.	MAP NO. B-3d
DATE: AUG., 1984	



**LEGEND**

UNIT	DESCRIPTION
6	GRANODIORITE and GRANODIORITE SILLS: Massive sills are locally strongly pyritic Map Symbols - GDR, DISF
6A	HORNfelsED SEDIMENTS of Unit 2, adjacent to sills. Map Symbol - SULI
5	DIOIRIC SILLS, DYKES and PLUTONS: Variable mafic content, foliated Map Symbols - DISM, DKDI, DIMP, DIOR, OZ DIOR
4	MAFIC FLOWS and SILLS: Pyroxene porphyry and biotite porphyry crystal lapilli tuffs and flows, agglomerates and minor pyroxenite sills Map Symbols - PKPP, BIPP
3	GRAPHITIC SHALES: Slaty, pyritic zones, forms lenses within Unit 2, occasional chert Map Symbols - PHGR, SEDC GR, SHALE
2	CHEMICAL and CLASTIC SEDIMENTS: Cherts, pyritic cherts, siltstones, sedimentary and volcanic phyllites, chert pebble conglomerates, volcanogenic sediments, sandstones, siltstones Map Symbols - SEDC, SMLS, SEDA, PHSD, PHVC, SAND, CULS, SDVC, SST, SILT
1	FELSIC TUFFS: Rhyolite or andesite crystal tuffs. Map Symbols - TFRV, TRAM, RUV, TFDC, FKPP

- Geological Contact - observed
  - - - Geological Contact - approximate
  - - - - - Geological Contact - assumed
  - ~ Fault
  - ~ Thrust Fault
  - ~ WFLM or VLF-EM Conductor - weak (V)
  - ~ VLF-EM Conductor - moderate (V)
  - ~ VLF-EM Conductor - strong (V)
  - ~ Anticlinal Axis
  - ~ Synclinal Axis
  - ~ Overturned Anticlinal Axis with dip of axial plane and plunge of hinge line
  - ~ Strike and dip of bedding
  - ~ Strike and dip of foliation
  - ~ Azimuth and plunge of lineation
- △ ROCK SAMPLE LOCATION
  - Approximate shape and position of mapped outcrop
  - ▨ Alteration Zone

**MINERAL ABBREVIATIONS AND NOTATIONS**

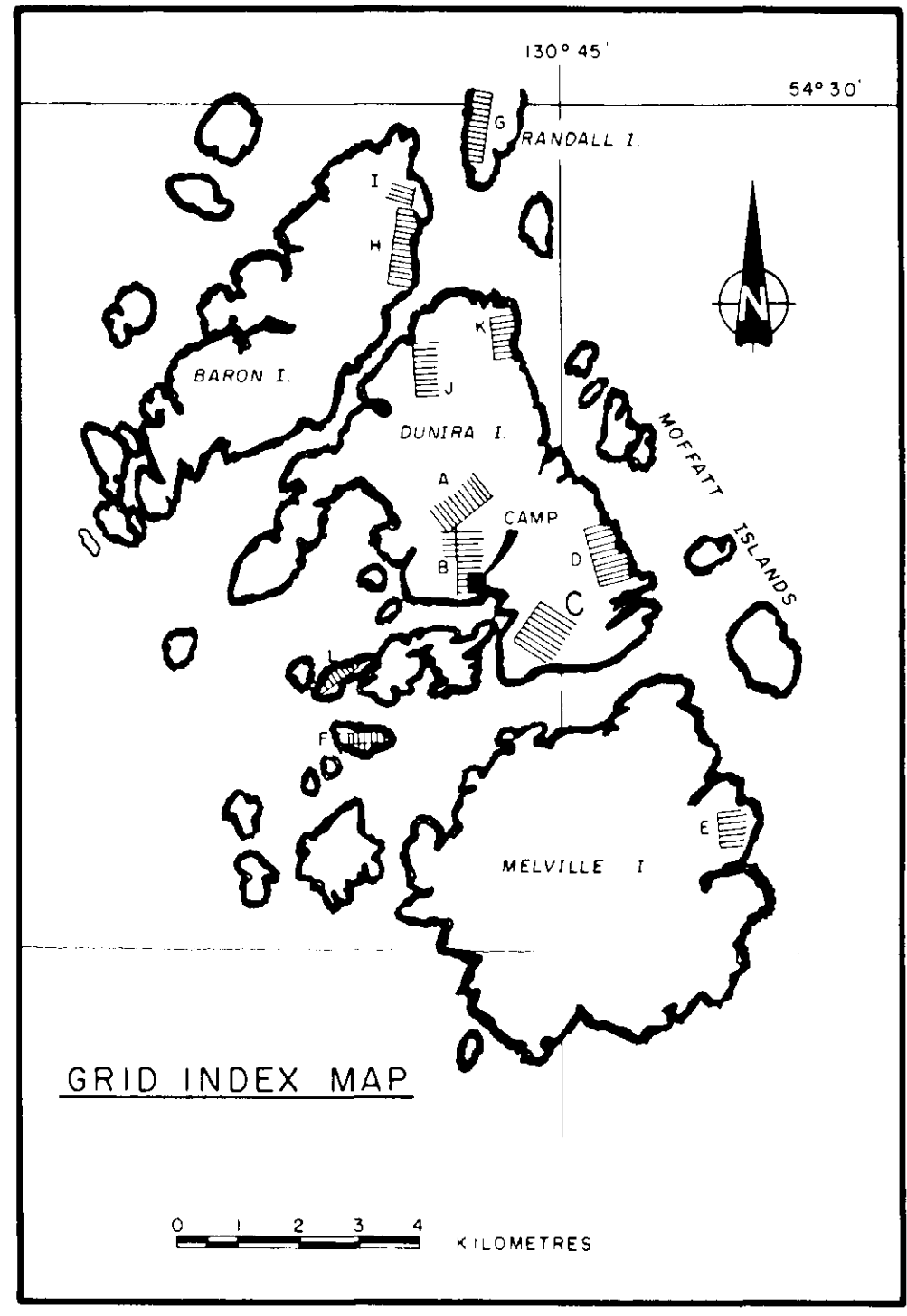
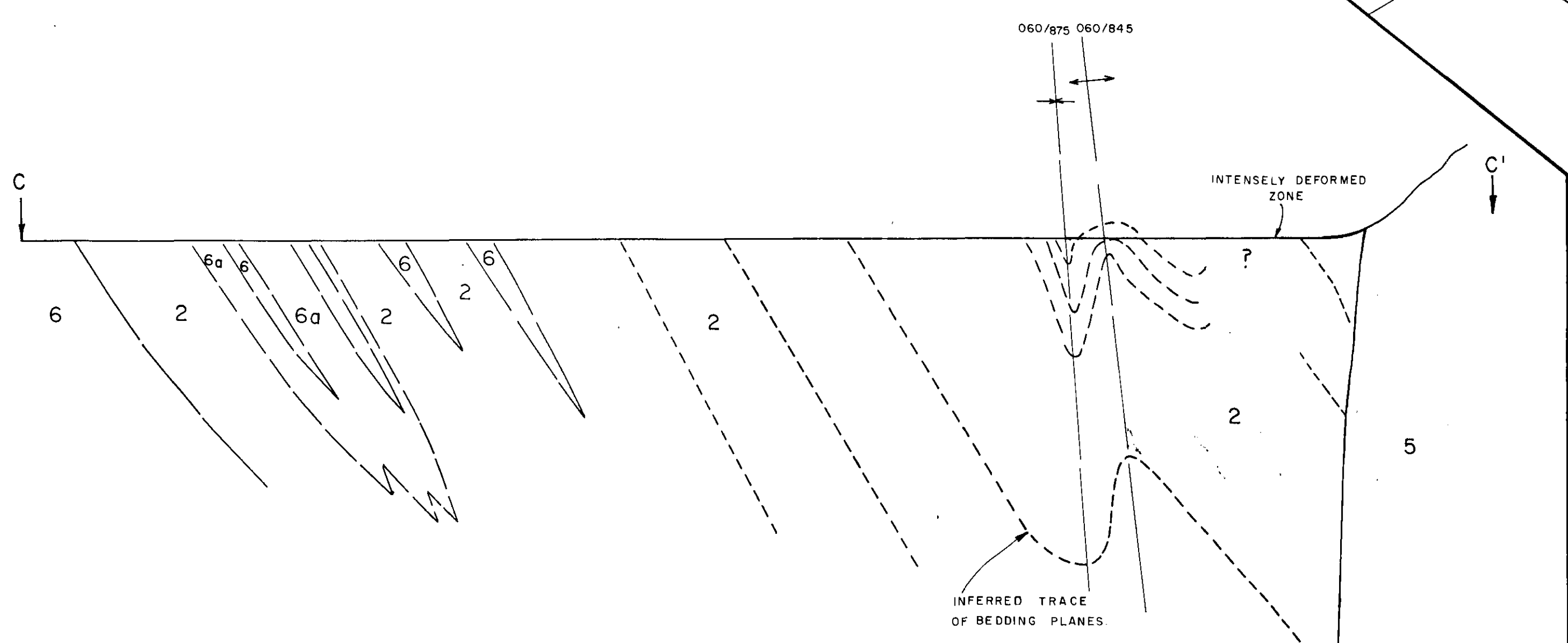
ALT	alteration	LAM	laminated
BI	biotite	MF	mafic
BLK	black	MS	sericite
HO	hornite	MU	muscovite
BRXX	breccia	PO	pyroxolite
CR	celadite	PP	phenocrystal
CL	chlorite	PX	pyroxene
CP	chalcopyrite	PY	pyrite
DC	decite	QTZ	quartz
FOL	foliated	SERP	serpentine
GL	galena	SH	sheared
GR	graphite	SIC	silicified
GS	grey sulphide	SIF	silicified
GV	grey	SP	sphalerite
HB	hornblende	VM	vein
KA	kaolinite		

**ROCK GEOCHEMISTRY**

SAMPLE NUMBER	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)
M158	57	7	34	0.7
M161	69	8	68	0.5
M168	94	29	69	2.1
M170	108	6	583	1.0
M175	51	14	133	0.9
M176	138	12	70	1.0
M177	65	9	34	0.6
M185	N/A	N/A	N/A	0.1
M187	2	2	2	0.2
N 1	86	36	152	2.1
N 2	108	28	77	1.9



**SECTION C-C'**  
VERTICAL AND HORIZONTAL SCALES 1:2500  
TOPOGRAPHY IS INFERRED



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**12,777**  
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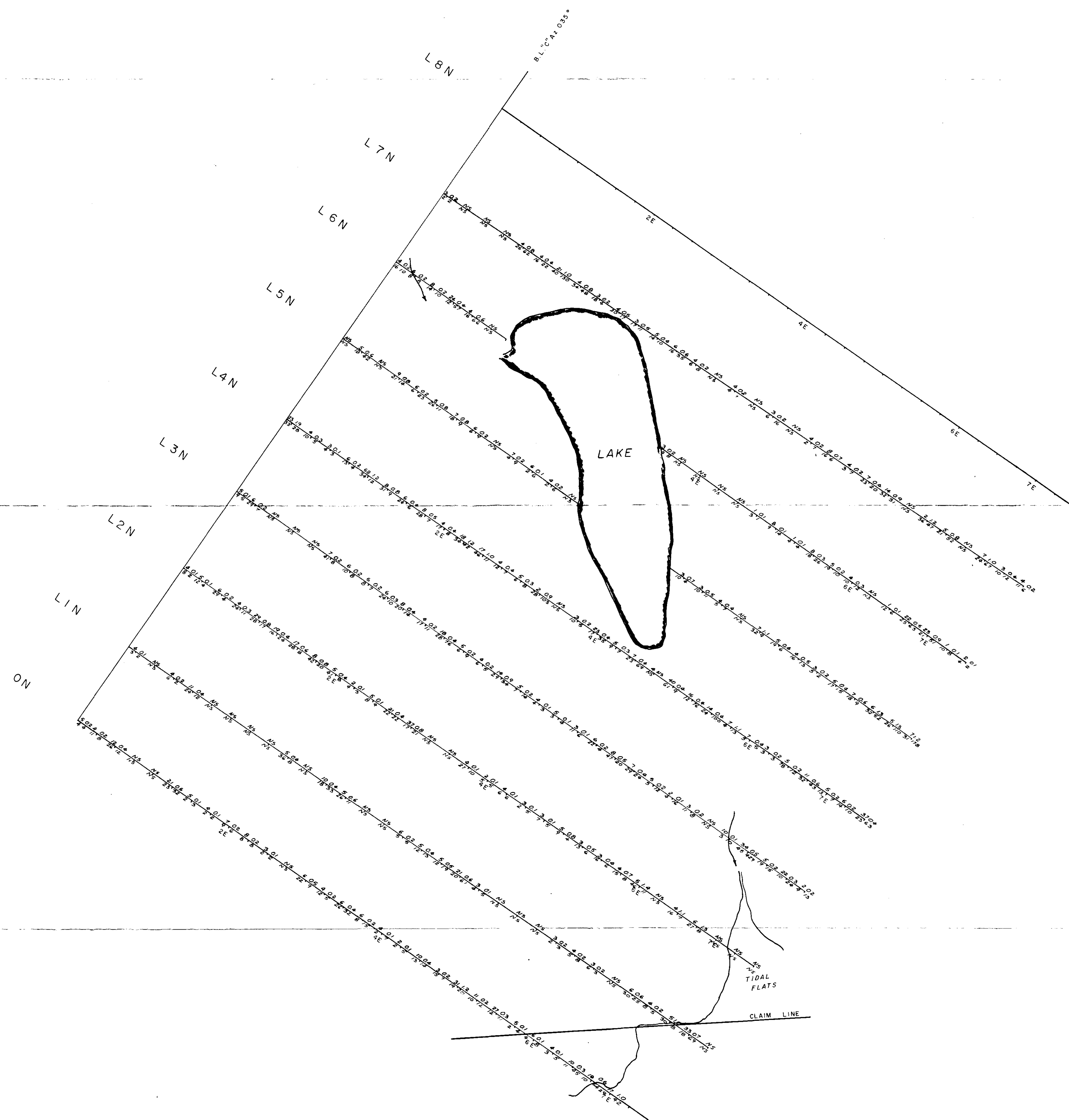
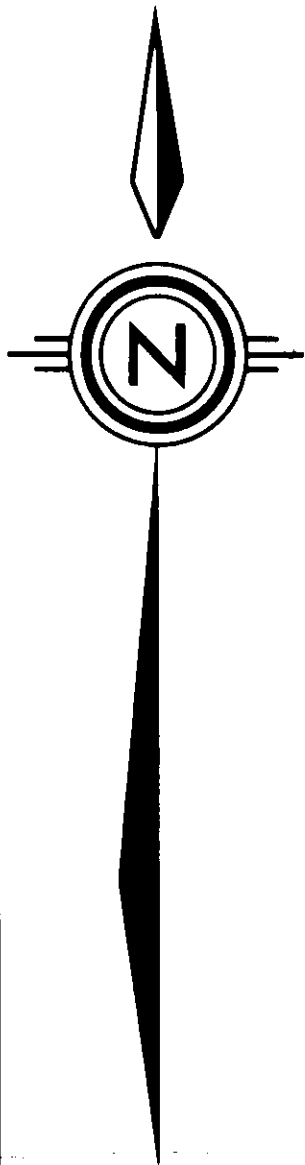
**BILLITON CANADA LTD.**

COAST COPPER PROJECT  
DUNIRA ISLAND BC. NTS 103-J/7

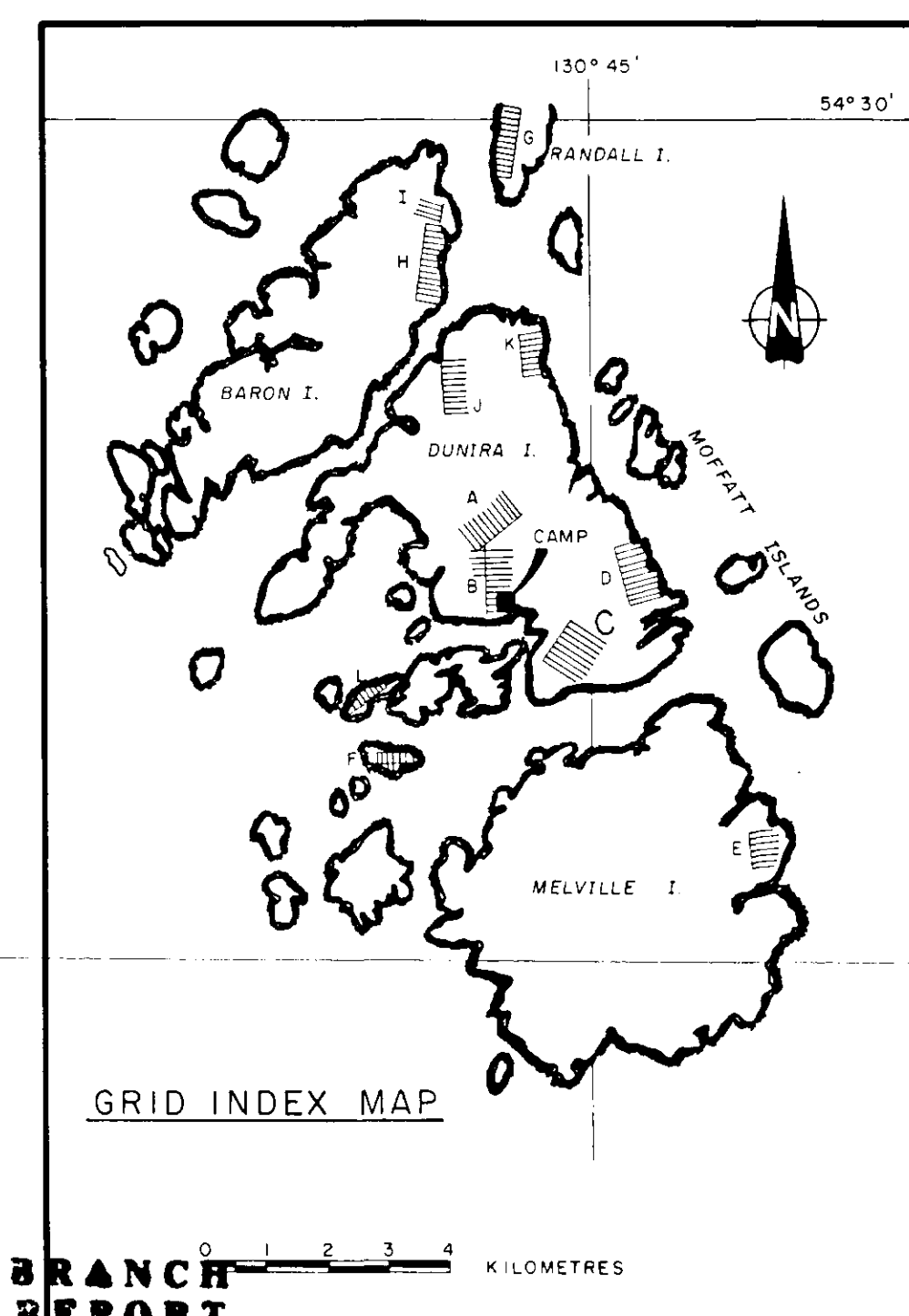
**GRID C**  
GEOLOGY MAP

50 0 100 200 METRES

BY: M CARR / rwr  
DATE: AUG, 1984  
MAP NO. C-1



LEGEND:  
 4 0.1 Cu Ag VALUES IN P.P.M.  
 12 29 Pb Zn  
 NS = NO SAMPLE TAKEN.



GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

12,777  
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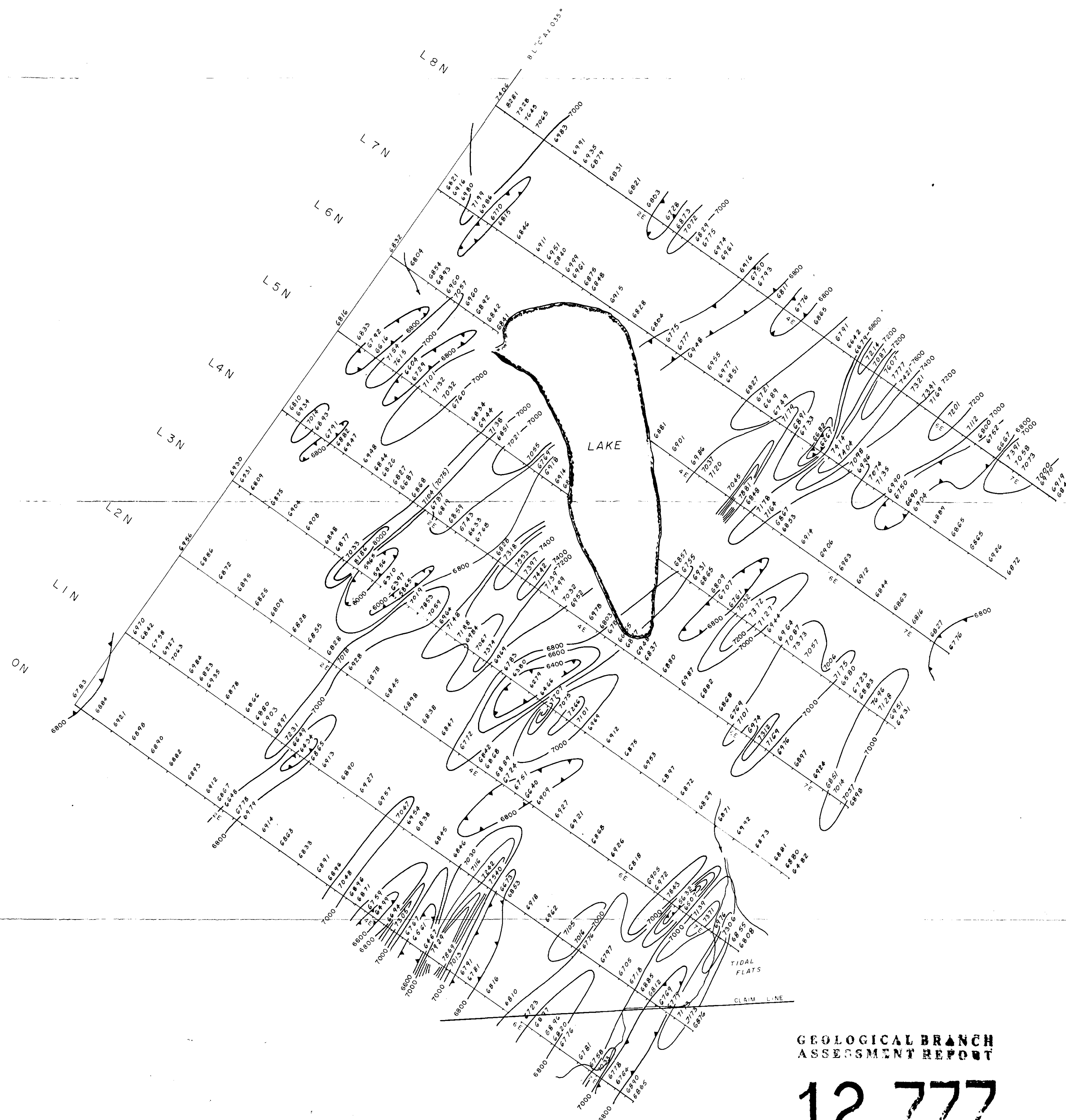
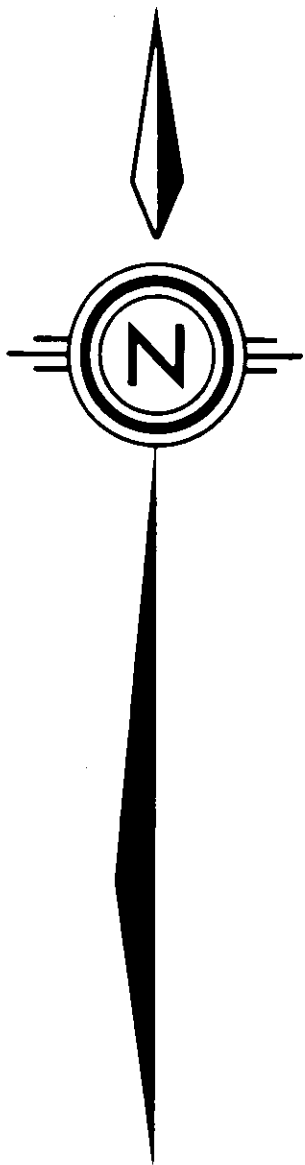
BILLITON CANADA LTD.  
 COAST COPPER PROJECT  
 DUNIRA ISLAND B.C. NTS 103-J/7  
**GRID C**  
 SOIL GEOCHEMICAL SURVEY  
 Cu, Ag, Pb & Zn RESULTS

50 0 100 200 METRES

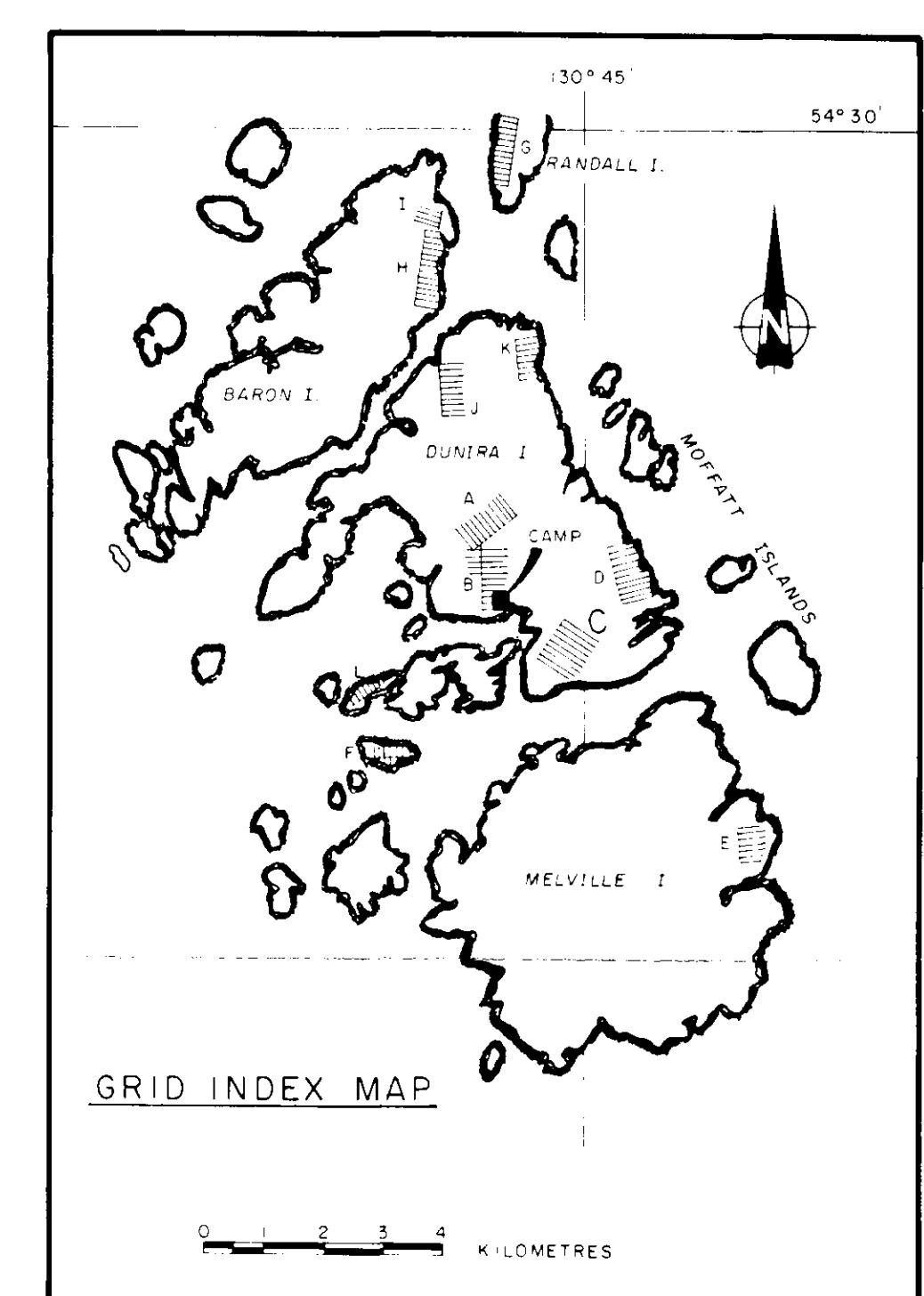
BY: M. CARR / rwr  
 DATE: AUG. 1984

MAP NO. C-2





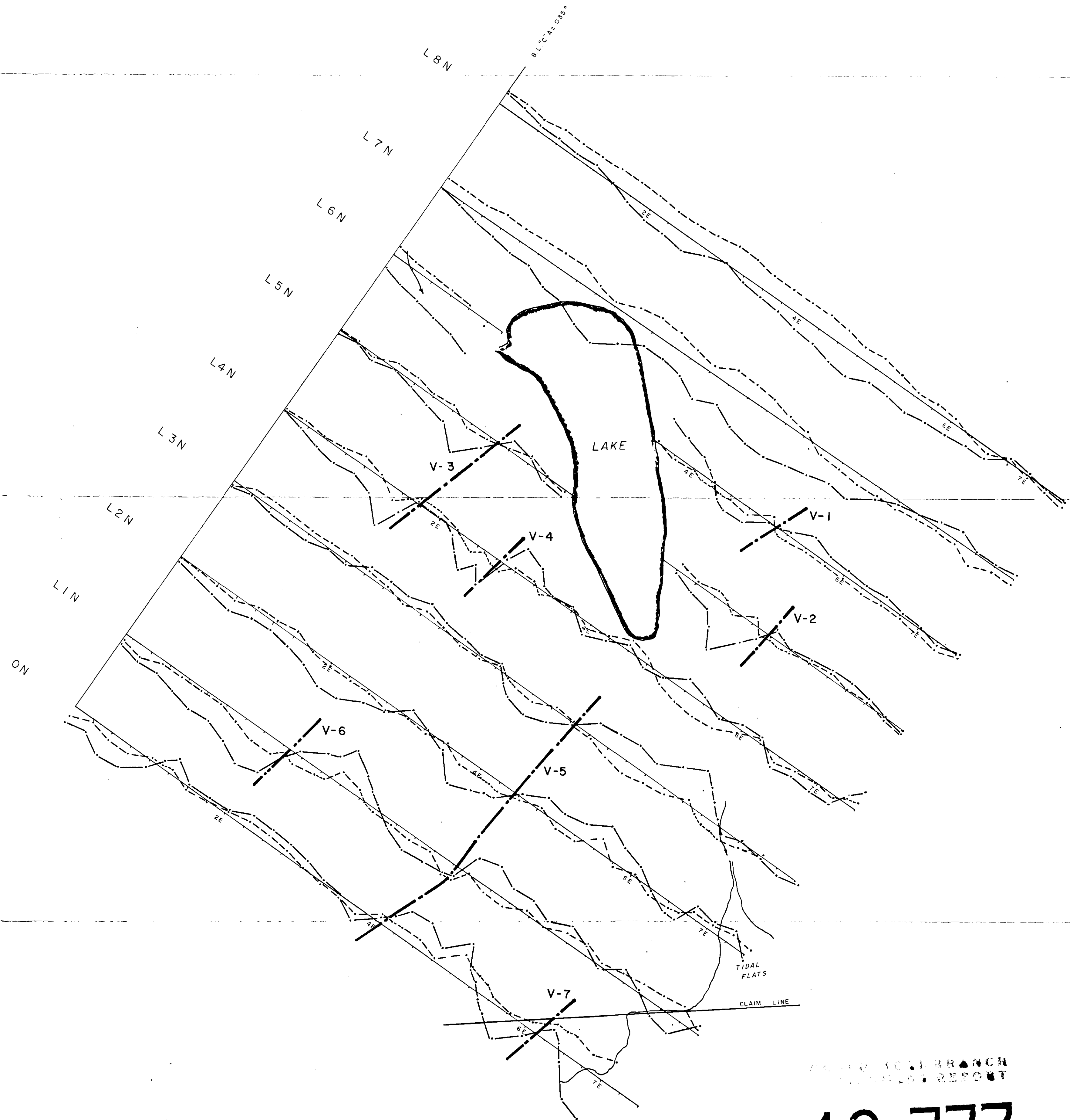
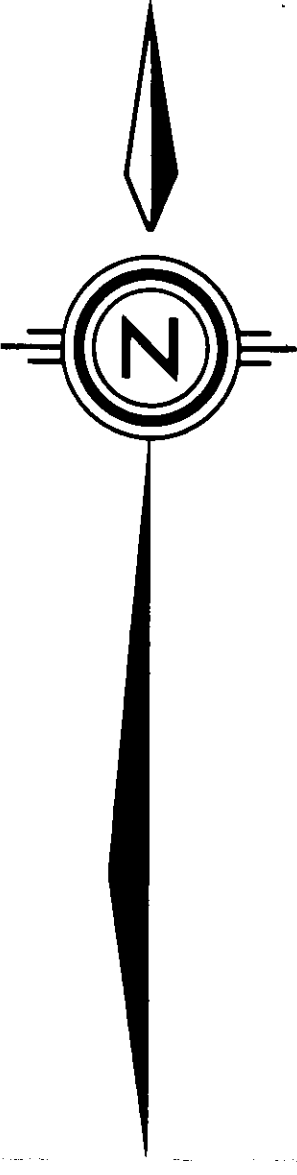
LEGEND:  
OPERATOR - H.A. SUTHERLAND  
INSTRUMENT : GSM-8 MAGNETOMETER  
CONTOUR INTERVAL = 200 GAMMAS  
NOTE: ADD 50,000 GAMMAS TO ALL VALUES



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND BC. NTS 103-J/7	
GRID <u>C</u>	
PROTON PRECESSION MAGNETOMETER SURVEY	
50 0 100 200 METRES	
BY: M. CARR / rwr	MAP NO. C-3g
DATE: AUG. 1984	



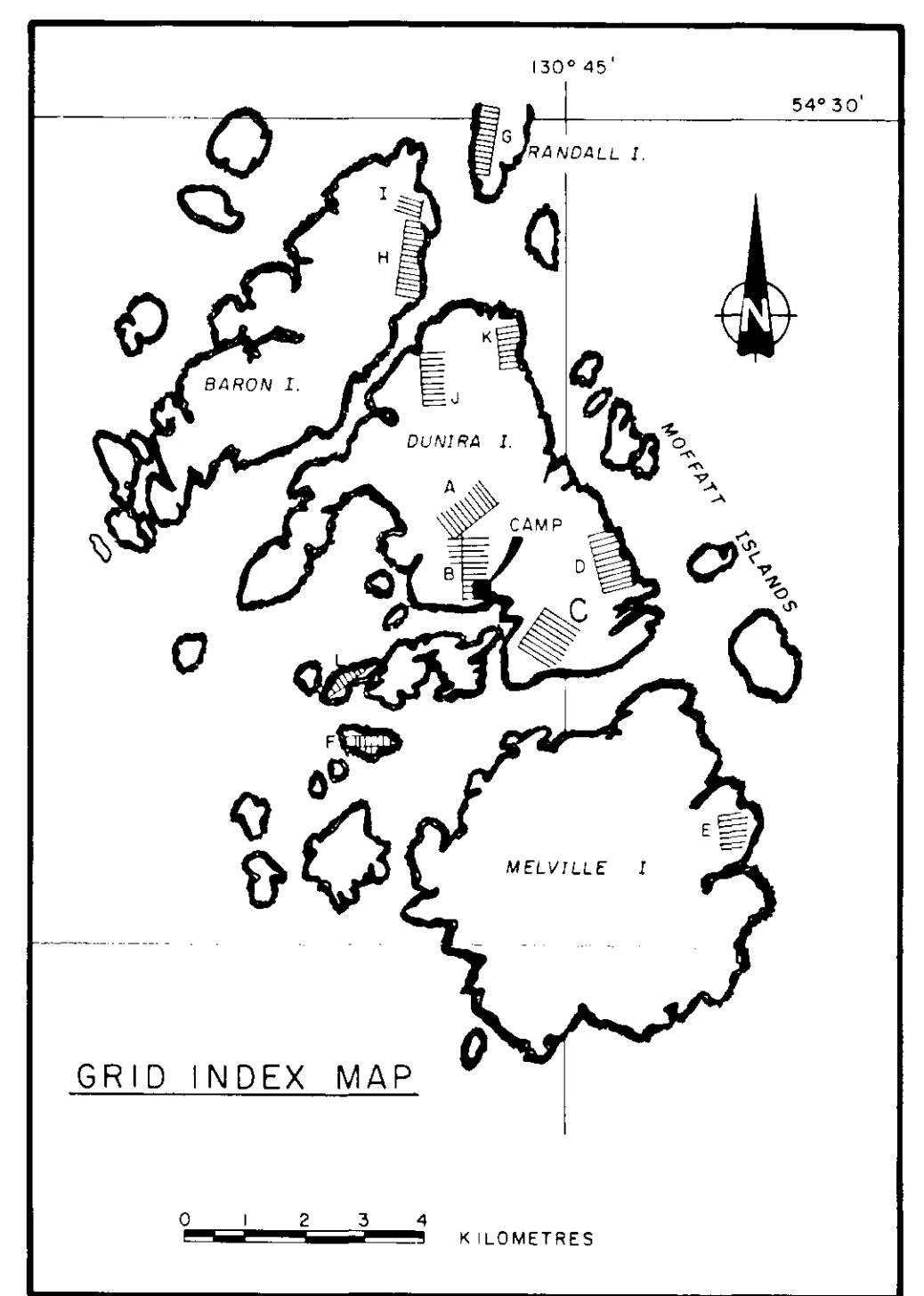
LEGEND:

INSTRUMENT: EM-16  
 COIL SEPARATION = 100m  
 STATION: NLK SEATTLE  
 FACING TRUE NORTH

PROFILE SCALE

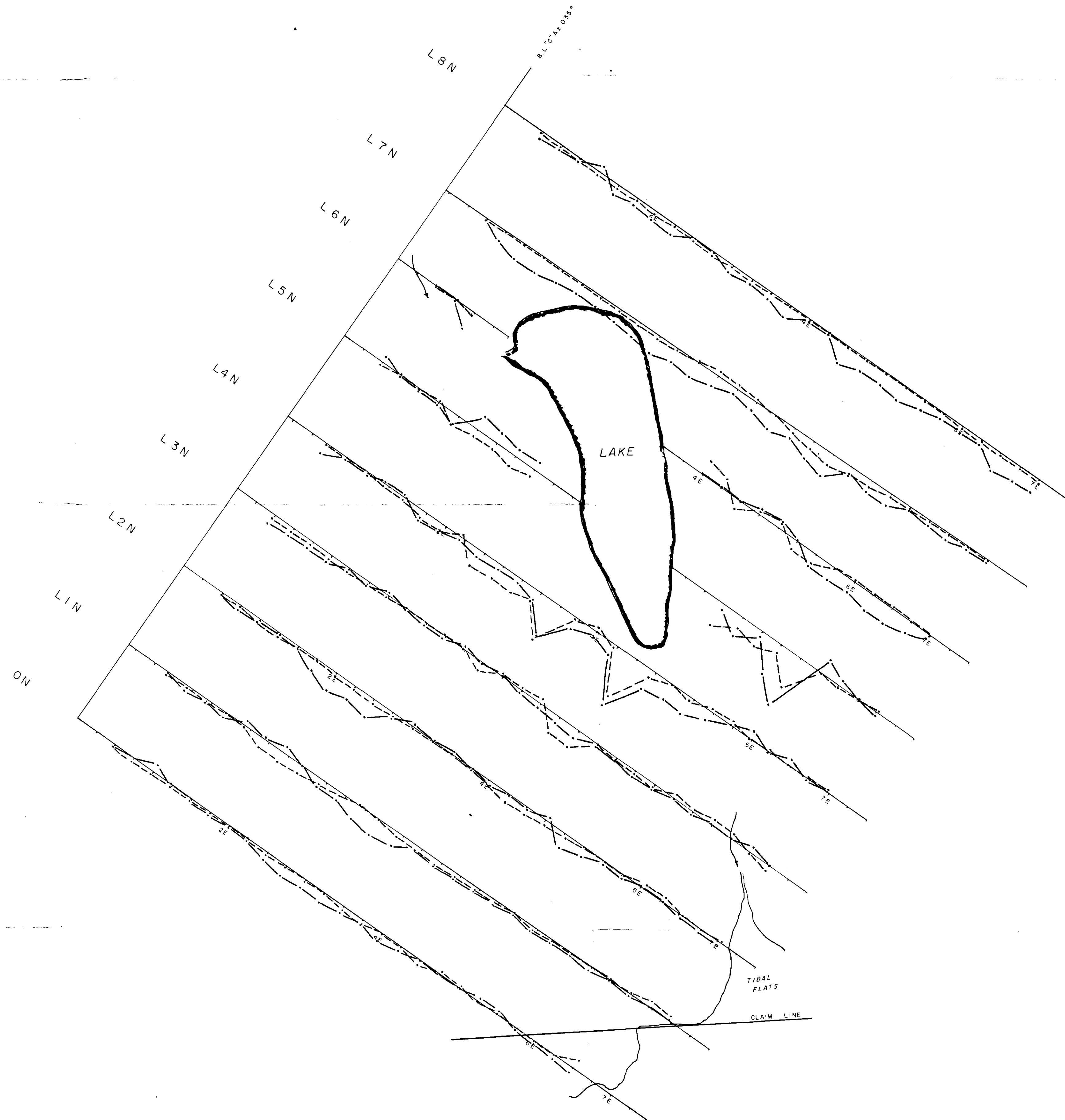
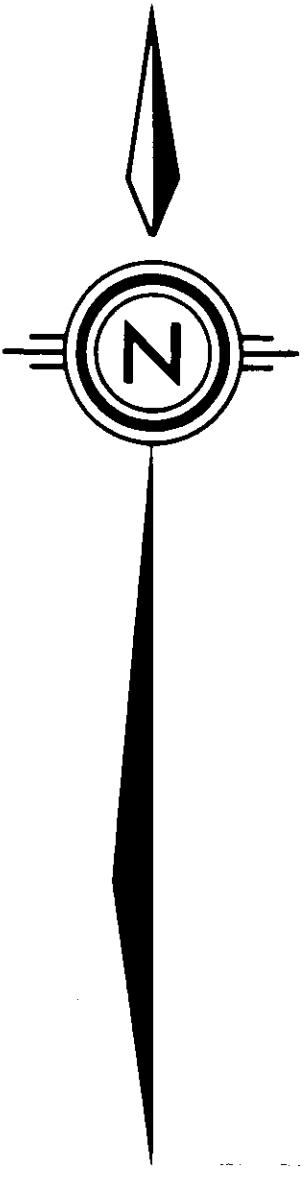
IN-PHASE PROFILE  
 QUADRATURE PROFILE

— WEAK ANOMALY  
 - - - MODERATELY STRONG ANOMALY

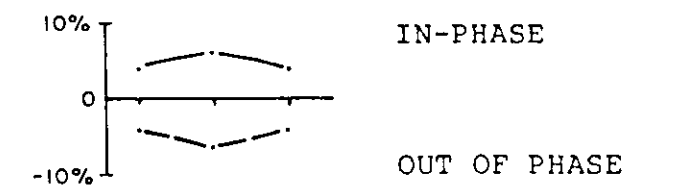


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BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND BC. NTS 103-J/7	
GRID C	
VLF-EM SURVEY	
BY: M. CARR / rwr.	MAP NO. C-3b
DATE: AUG., 1984	

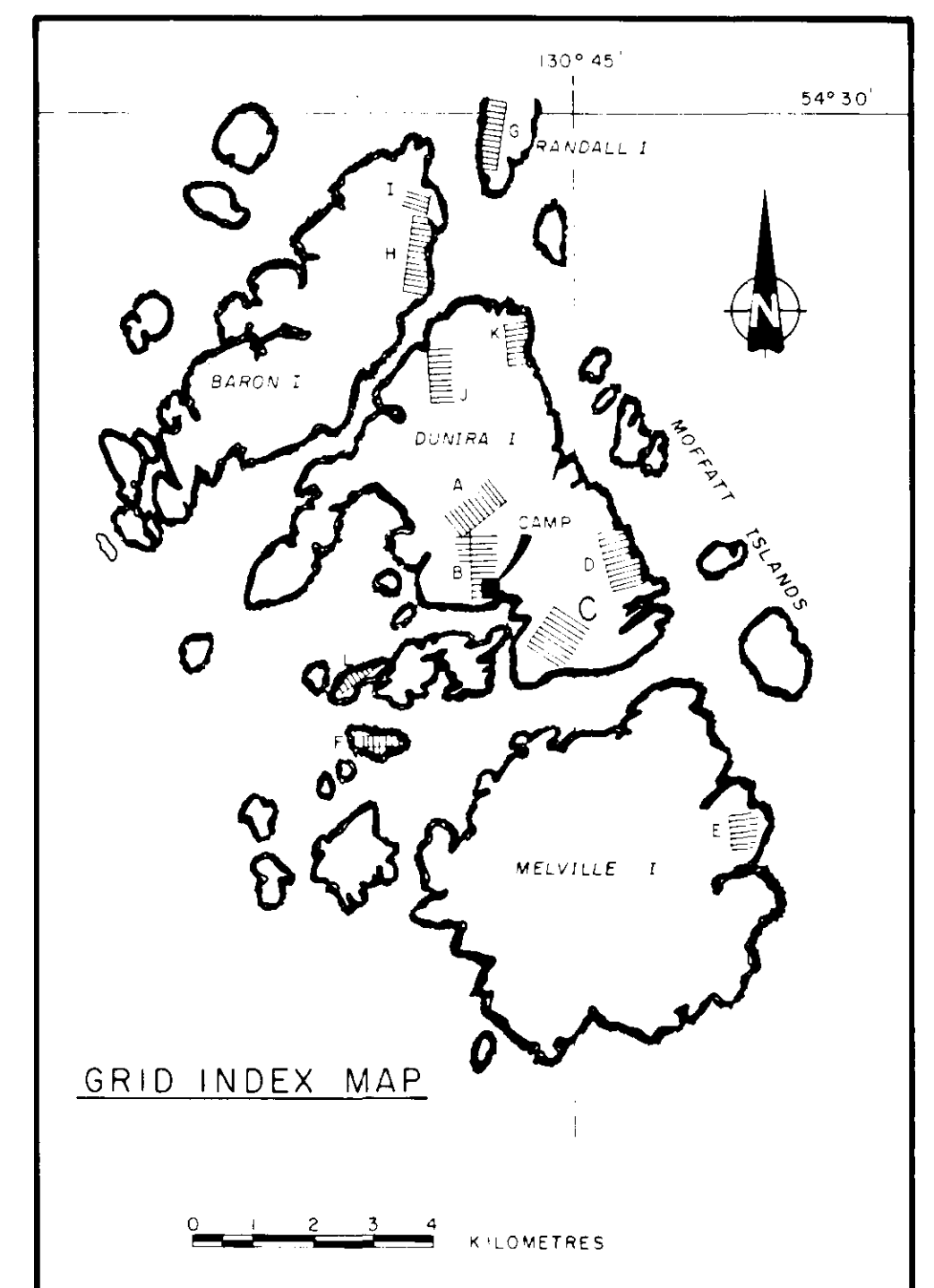


LEGEND:  
INSTRUMENT: MAX-MIN 2  
COIL SEPARATION = 100 METRES  
CORRECTED FOR TOPOGRAPHY

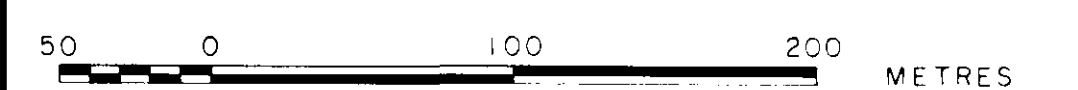


GEOLOGICAL BRANCH  
ASSESSMENT REPORT

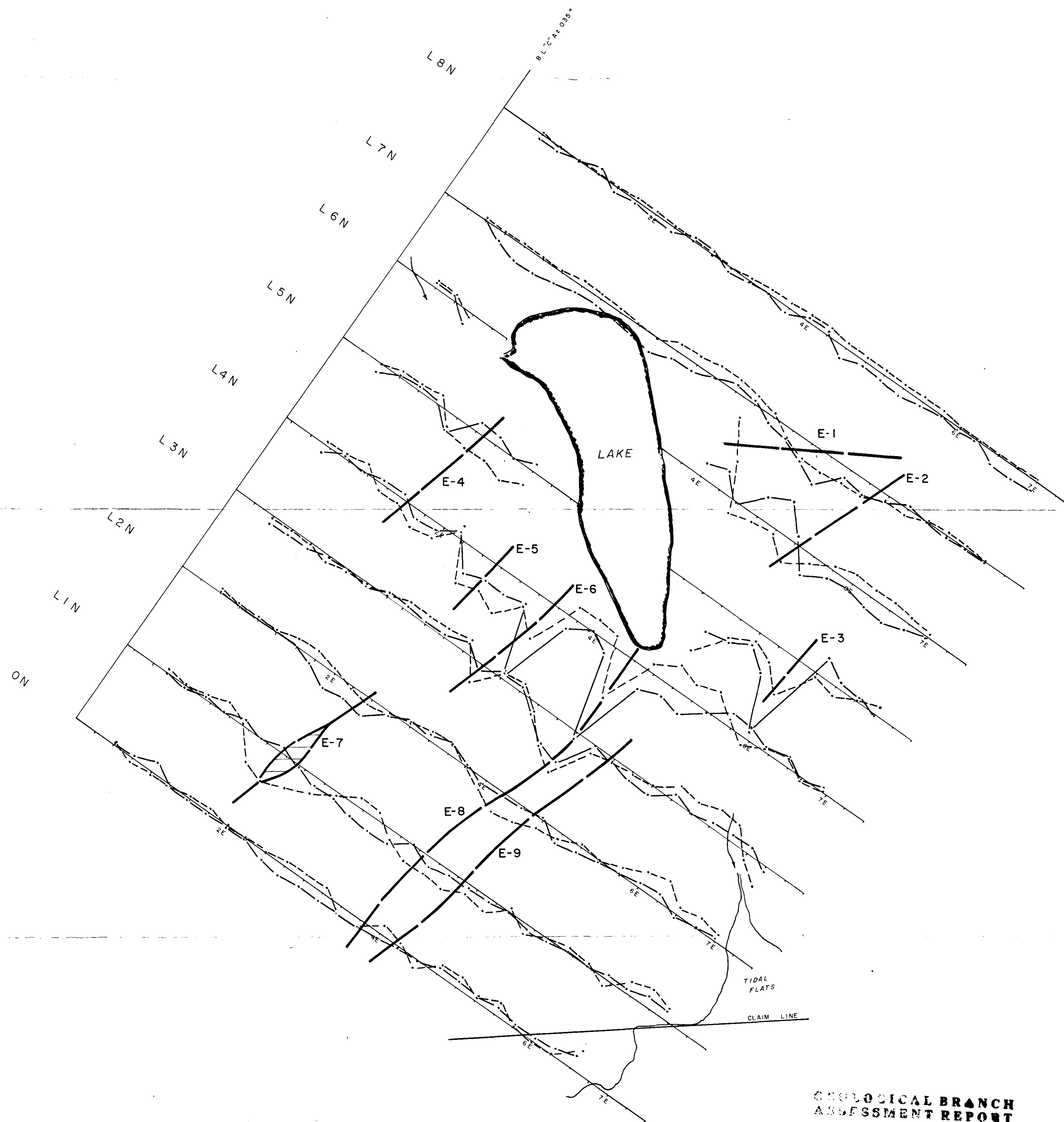
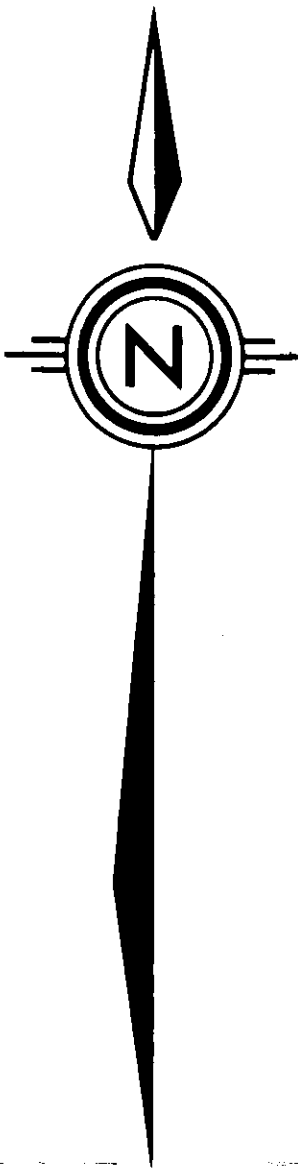
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BILLITON CANADA LTD.  
COAST COPPER PROJECT  
DUNIRA ISLAND B.C. NTS 103-J/7  
**GRID C**  
HORIZONTAL LOOP EM-SURVEY  
OP 444 Hz.



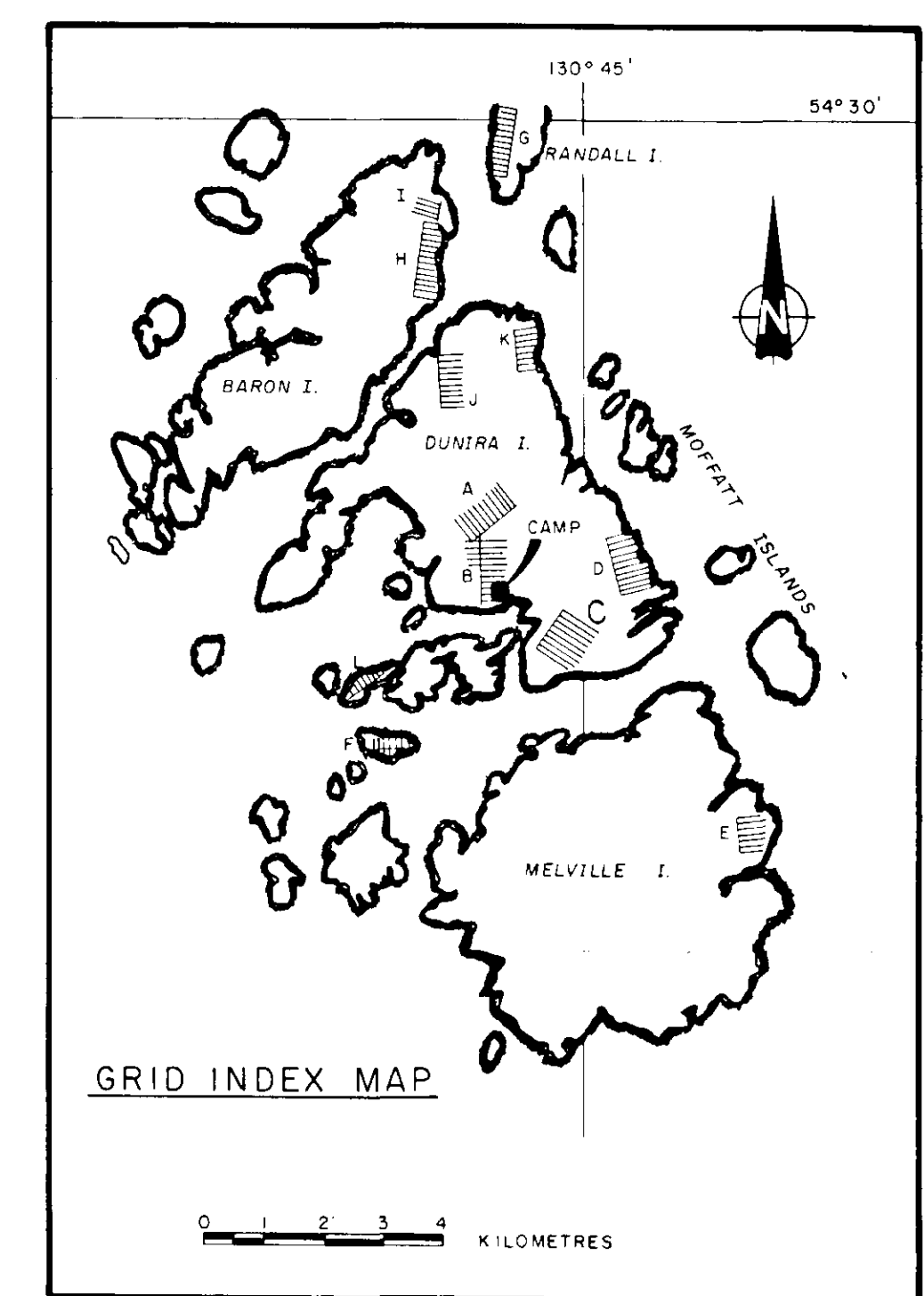
BY M. CARR / rwr  
DATE AUG. 1984  
MAP NO. C-3c



LEGEND:  
 INSTRUMENT: MAX-MIN 2  
 COIL SEPARATION = 100 METRES  
 CORRECTED FOR TOPOGRAPHY

10% IN-PHASE  
 0  
 -10% OUT OF PHASE

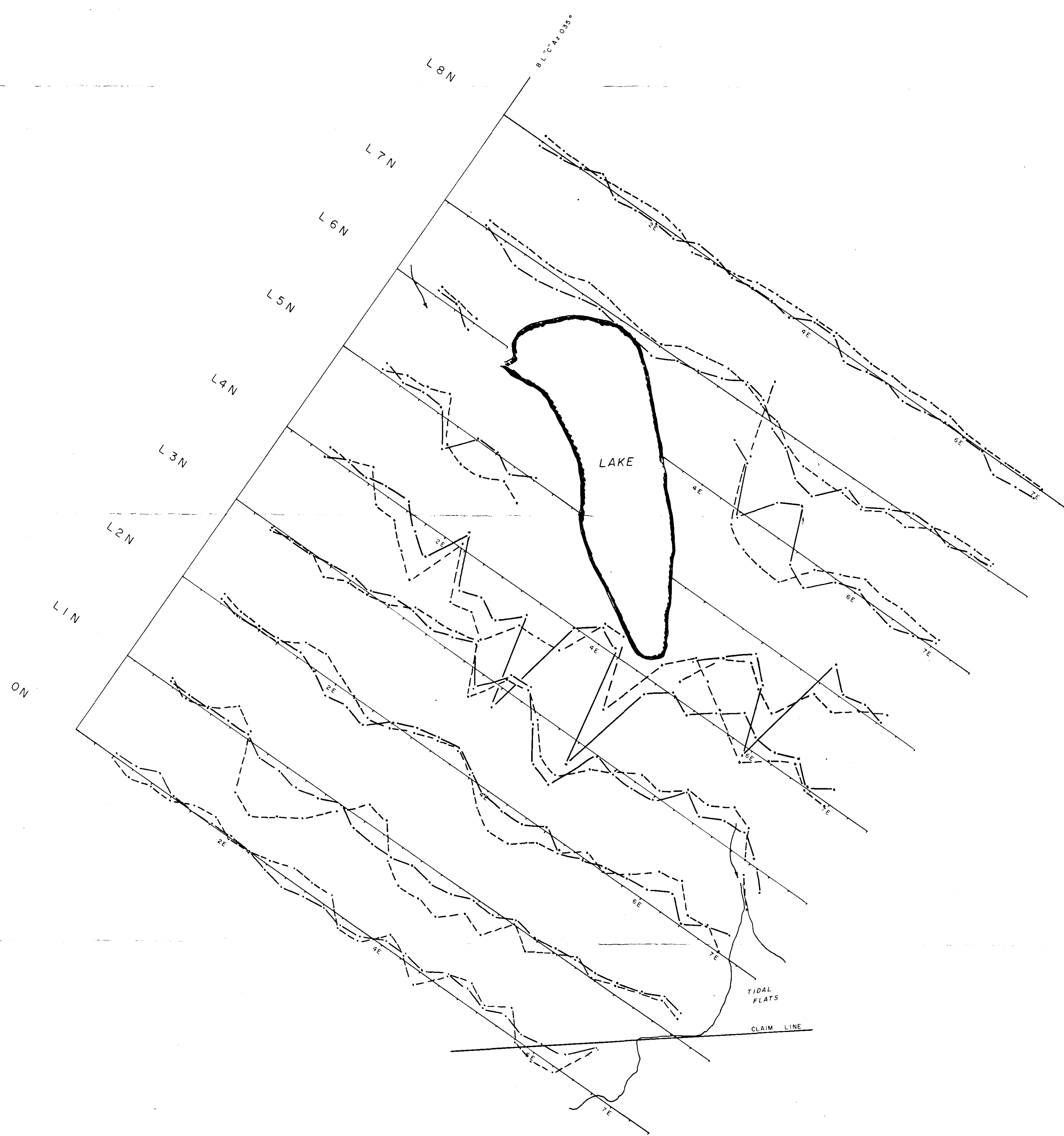
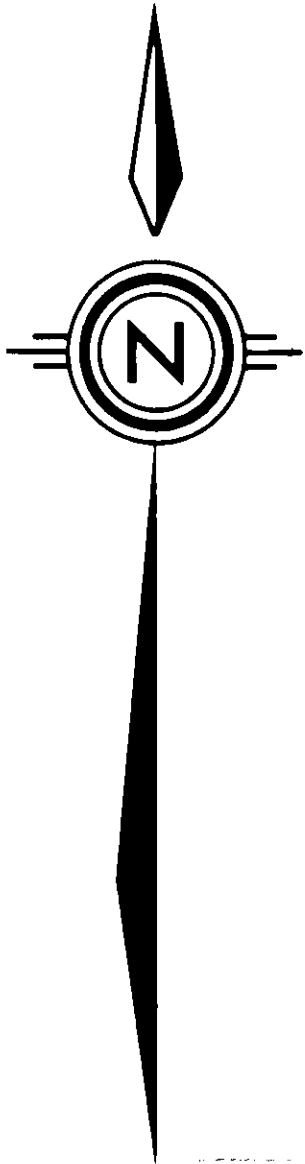
E-1 EM CONDUCTOR



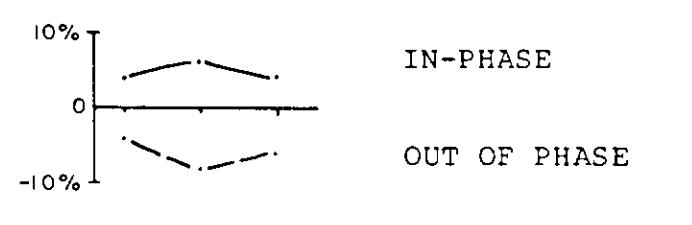
GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

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BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND BC. NTS 103-J/7	
GRID C	
HORIZONTAL LOOP EM-SURVEY OP 1777 Hz.	
50 0 100 200 METRES	
BY: M CARR / r.w.	MAP NO. C-3d
DATE: AUG, 1984	

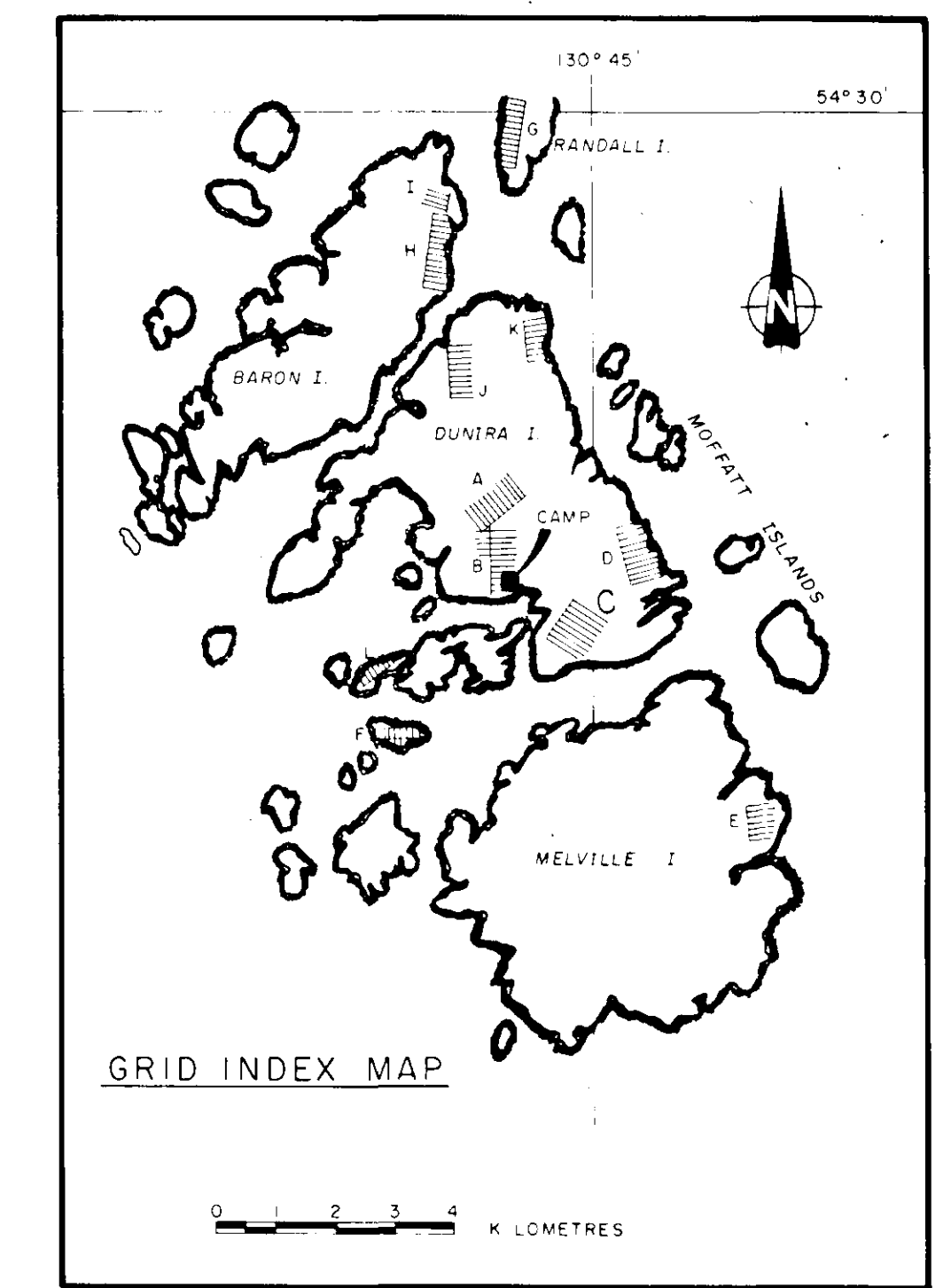


LEGEND:  
INSTRUMENT: MAX-MIN 2  
COIL SEPARATION = 100 METRES  
CORRECTED FOR TOPOGRAPHY

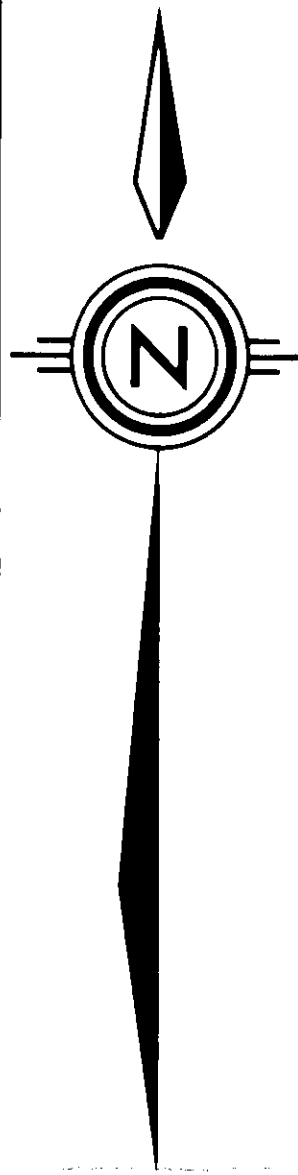


GEOLOGICAL BRANCH  
ASSESSMENT REPORT

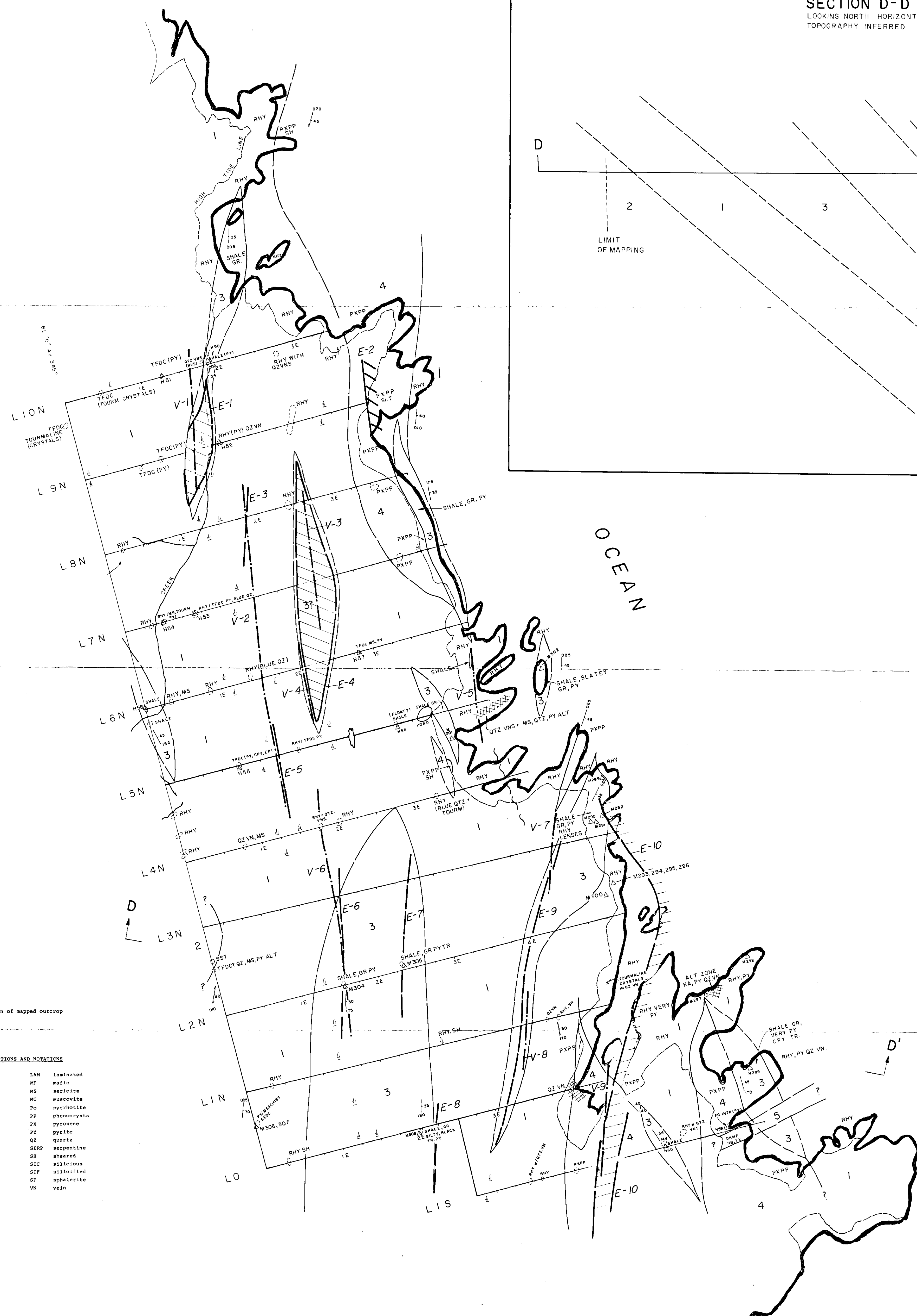
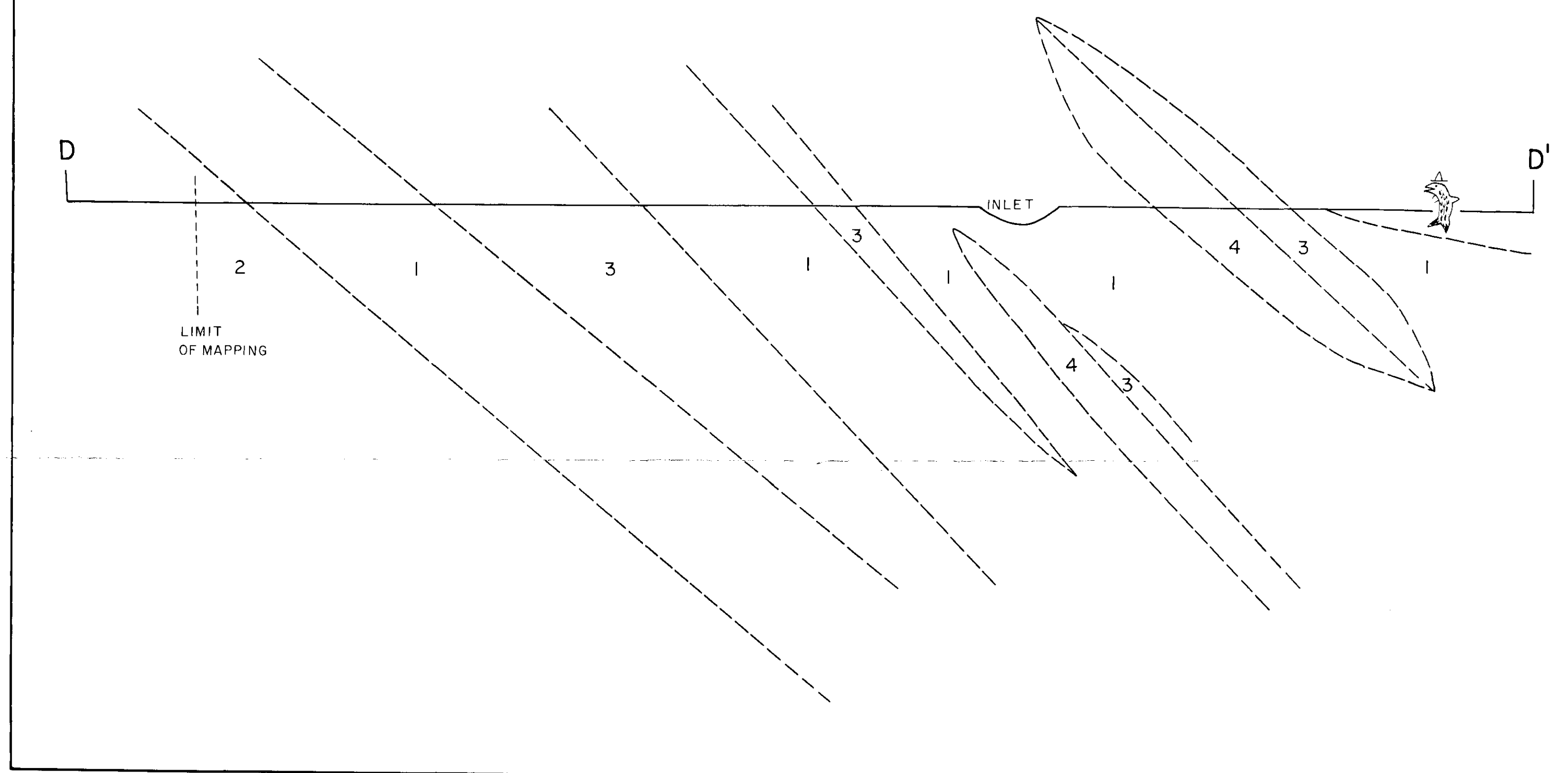
12,777  
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of 2



BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND BC. NTS 103-J/7	
GRID C	
HORIZONTAL LOOP EM-SURVEY OP 3555 Hz	
50 0 100 200 METRES	
BY: M. CARR / rwr	MAP NO. C-3e
DATE: AUG. 1984	



SECTION D-D'  
LOOKING NORTH HORIZONTAL AND VERTICAL SCALE 1:2500  
TOPOGRAPHY INFERRED



**LEGEND:**

**UNIT DESCRIPTION**

6 GRANODIORITE and GRANODIORITE SILLS:  
Massive sills are locally strongly pyritic  
Map Symbols - GKDR, DISF

6A HORNfelsED SEDIMENTS of Unit 2, adjacent to sills.  
Map Symbol - SULI

5 DIOtITE SILLS, DYkes and PLUtONS:  
Variable mafic content, foliated  
Map Symbols - DISM, DKDI, DIMP, DIOR, OZ DIOR

4 MAFIC FLOWS and SILLS:  
Pyroxene porphyry and biotite porphyry crystal  
lapilli tuffs and flows, agglomerates and minor  
pyroxenite sills  
Map Symbols - PXPP, BIPP

3 GRAPHITIC SHALES:  
Slaty, pyritic zones, forms lenses within Unit 2,  
occasional chert  
Map Symbols - PHGR, SEDC GR, SHALE

2 CHEMICAL and CLASTIC SEDIMENTS:  
Cherts, pyritic cherts, siltstones, sedimentary  
and volcanic phyllites, chert pebble conglomerates,  
volcanogenic sediments, sandstones, siltstones  
Map Symbols - SKDC, SULS, SEDA, PHSD, PHVC, SAND, CGLS,  
SDVC, SBT, SILT

1 FELSIC TUFFS:  
Rhyolite or andesite crystal tuffs.  
Map Symbols - TFRY, TRAN, RHY, TFDC, FXPP

— Geological Contact - observed  
- - - Geological Contact - approximate  
- - - Geological Contact - assumed

~ Fault  
~ Thrust Fault

--- HLEM or VEF-EM Conductor - weak (V)  
--- VEF-EM Conductor - moderate (V)  
--- VEF-EM Conductor - strong (V)

--- Anticlinal Axis  
--- Synclinal Axis  
--- Overturned Anticlinal Axis with dip of axial plane and plunge of hinge line  
--- Strike and dip of bedding  
--- Strike and dip of foliation  
--- Azimuth and plunge of lineation

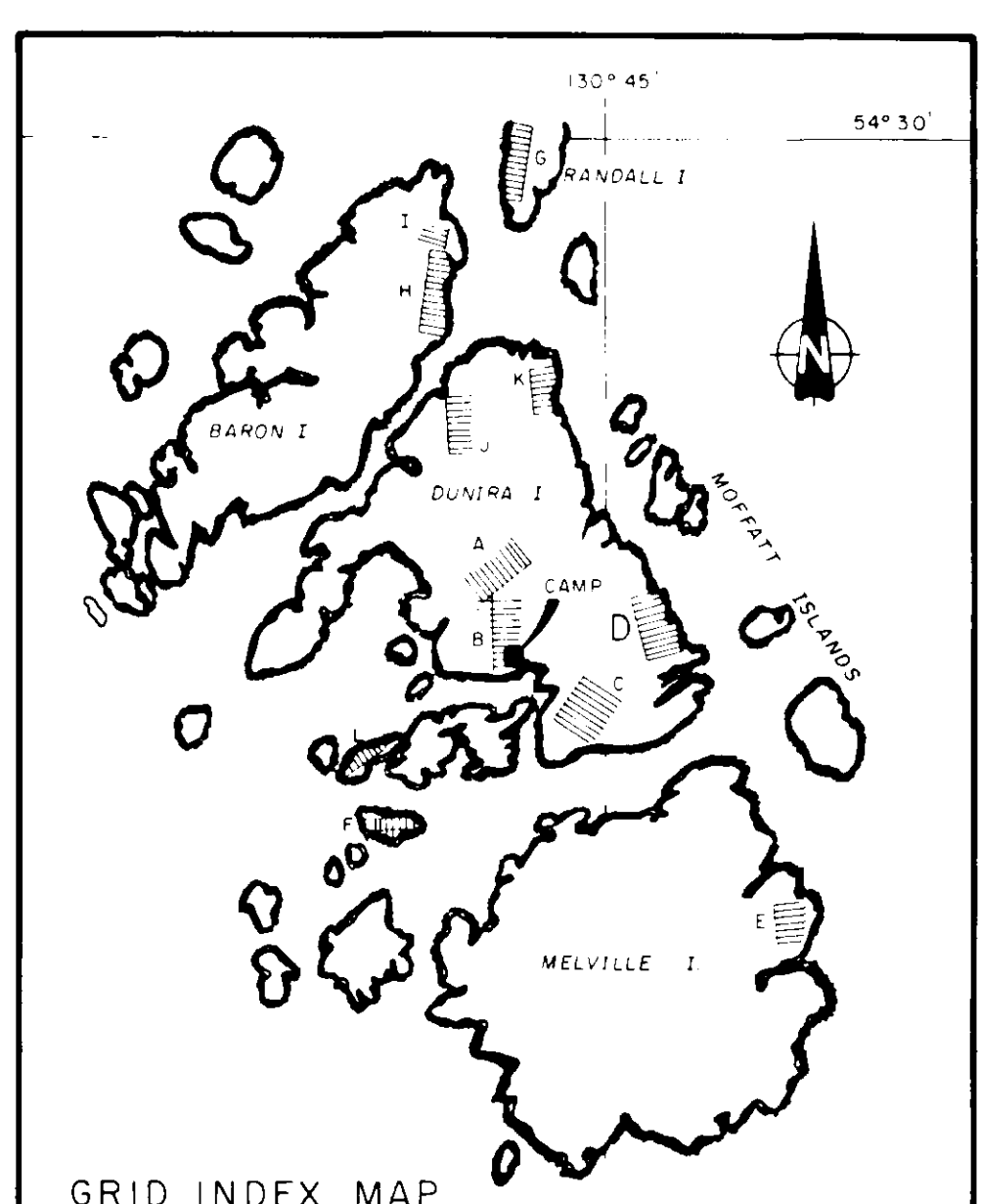
△ ROCK SAMPLE LOCATION  
○ Approximate shape and position of mapped outcrop  
▨ Alteration Zone

**MINERAL ABBREVIATIONS AND NOTATIONS**

ALT	alteration	LAM	laminated
BI	biotite	MF	mafic
BLK	black	MS	mesite
BO	boronite	MU	muscovite
BRXX	breccia	PO	pyroxenite
CB	calcite	PP	phenocrysts
CL	chlorite	PK	pyroxene
CP	chalcopyrite	PY	pyrite
DC	dacite	QTZ	quartz
FOL	foliated	SERP	serpentine
GL	galeana	SH	sheared
GR	graphite	SIC	silicified
GS	grey sulphide	SIF	silicified
CY	grey	SP	sphalerite
HB	hornblende	SN	vein
KA	kaolinite		

ROCK GEOCHEMISTRY

SAMPLE NUMBER	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
M289	62	11	118	0.2
M290	46	9	120	0.2
M291	10	8	40	0.1
M292	47	8	209	0.4
M293	4	10	16	0.1
M295	9	12	271	0.2
M296	55	180	38	1.9
M297	8	63	90	0.2
M298	10	23	56	0.1
M299	232	18	307	1.1
M300	266	82	246	1.6
M301	13	6	15	0.4
M302	14	4	5	0.4
M304	21	9	244	0.2
M305	8	4	33	0.1
M306	37	10	720	0.2
M307	56	6	12	1.0
M308	6	10	7	0.4
M309	44	8	457	0.4
M312	7	5	3	0.2
M324	4	42	5	0.2
M33	4	12	37	0.1
M34	9	14	29	0.1
M35	92	12	53	0.5
M36	4	2	3	0.1
M37	7	3	3	0.1
M38	5	2	2	0.1
M39	46	18	62	1.0
M40	16	13	8	0.6



GEOLOGICAL BRANCH  
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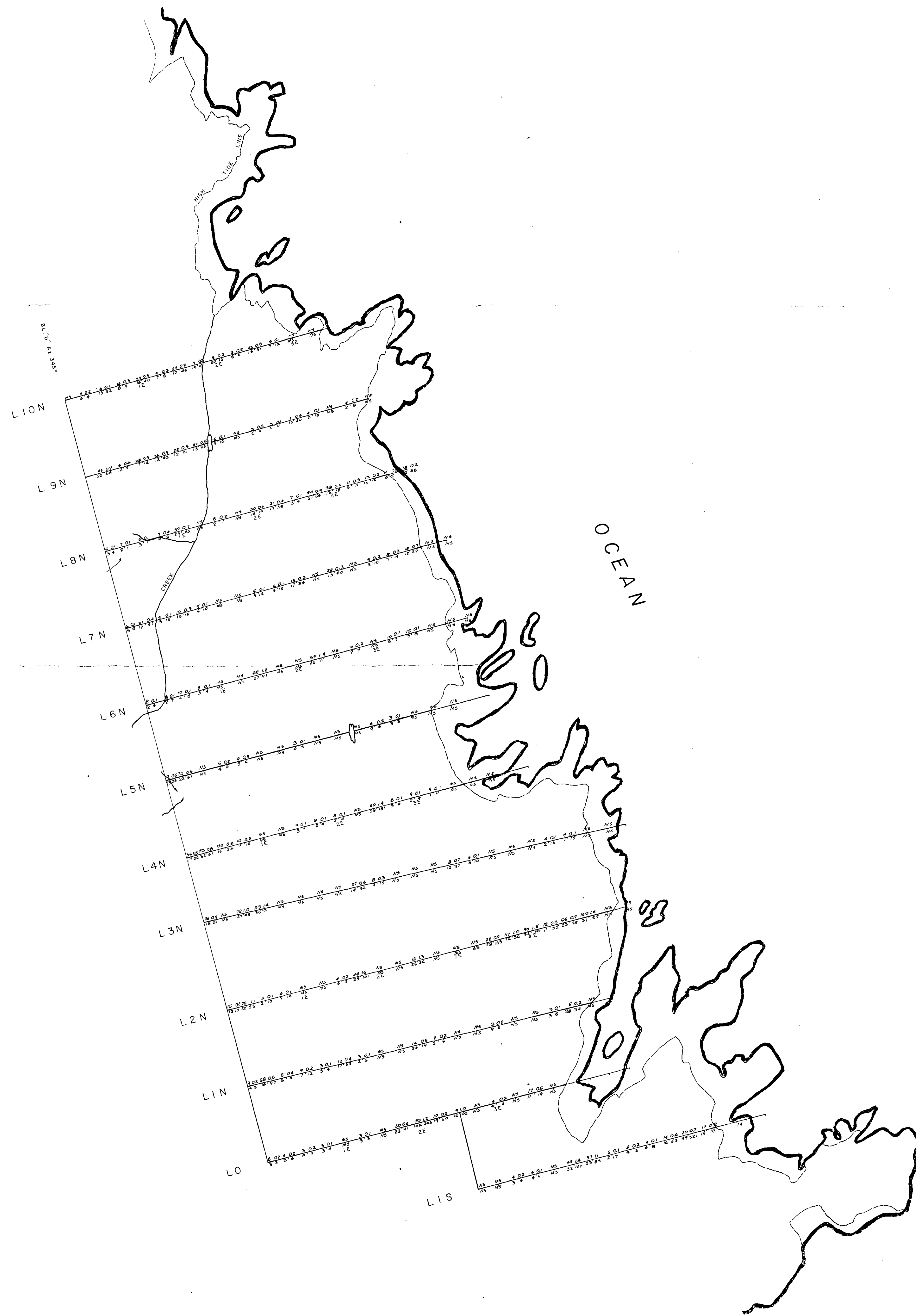
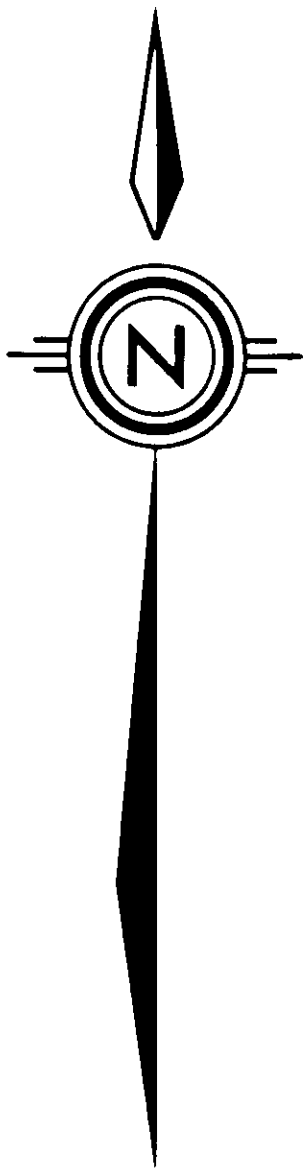
BILLITON CANADA LTD.

COAST COPPER PROJECT  
DUNIRA ISLAND BC. NTS 103-J/7

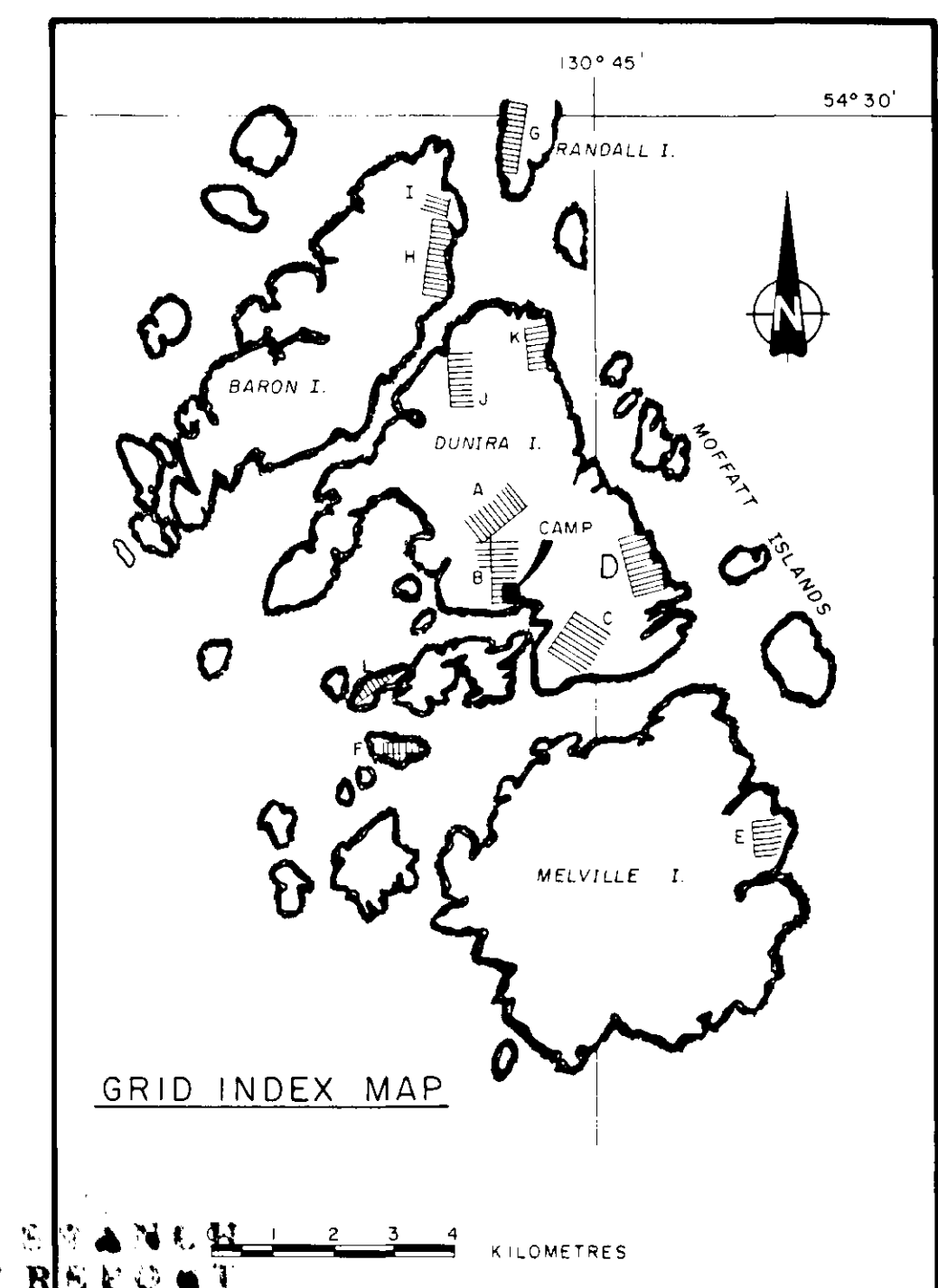
GRID D  
GEOLOGY MAP

90 0 100 200 METRES

BY M CARR / rwr  
DATE AUG, 1984  
MAP NO. D-1



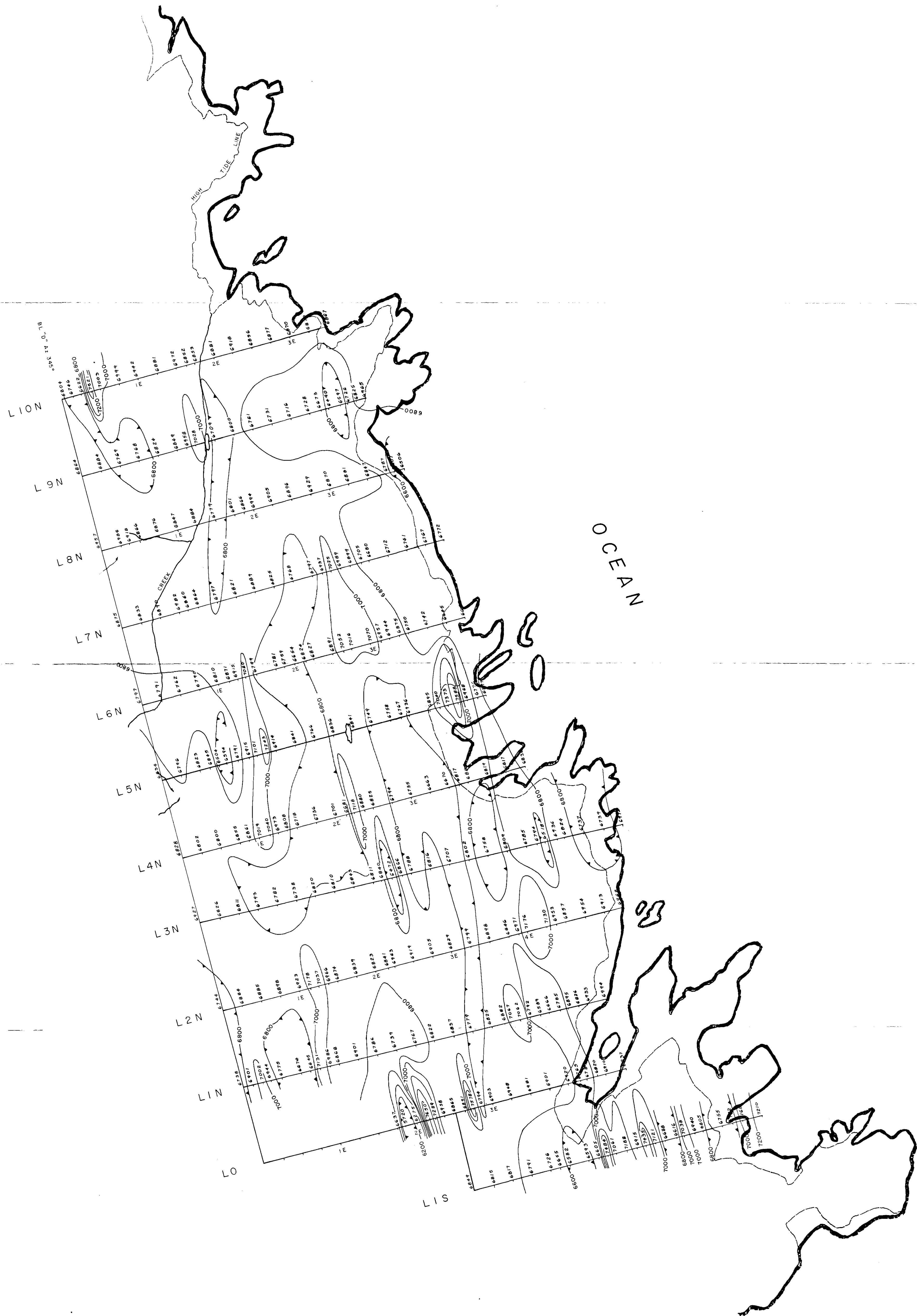
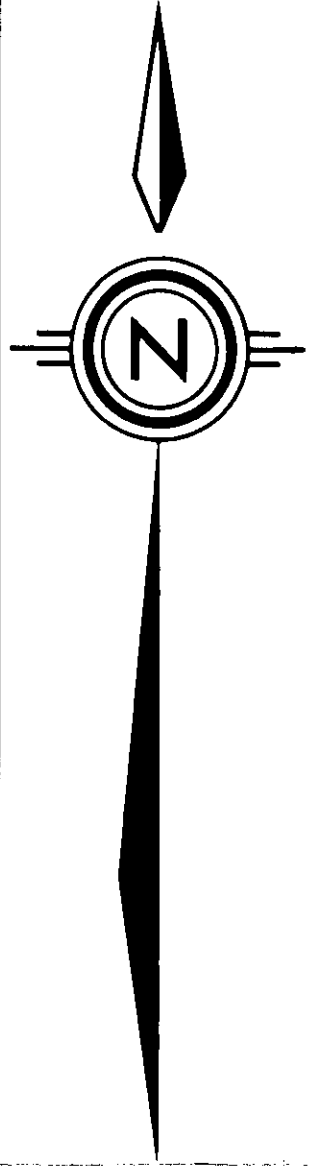
LEGEND:  
 4 0.1 Cu Ag VALUES IN P.P.M.  
 12 29 Pb Zn  
 NS = NO SAMPLE TAKEN.



GEOLOGICAL SURVEY OF CANADA  
 ASSESSMENT REPORT

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BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND BC. NTS 103-J/7	
GRID <u>D</u>	
SOIL GEOCHEMICAL SURVEY Cu, Ag, Pb & Zn RESULTS	
50 0 100 200 METRES	
BY: M CARR /rwr	MAP NO. D-2
DATE: AUG., 1984	

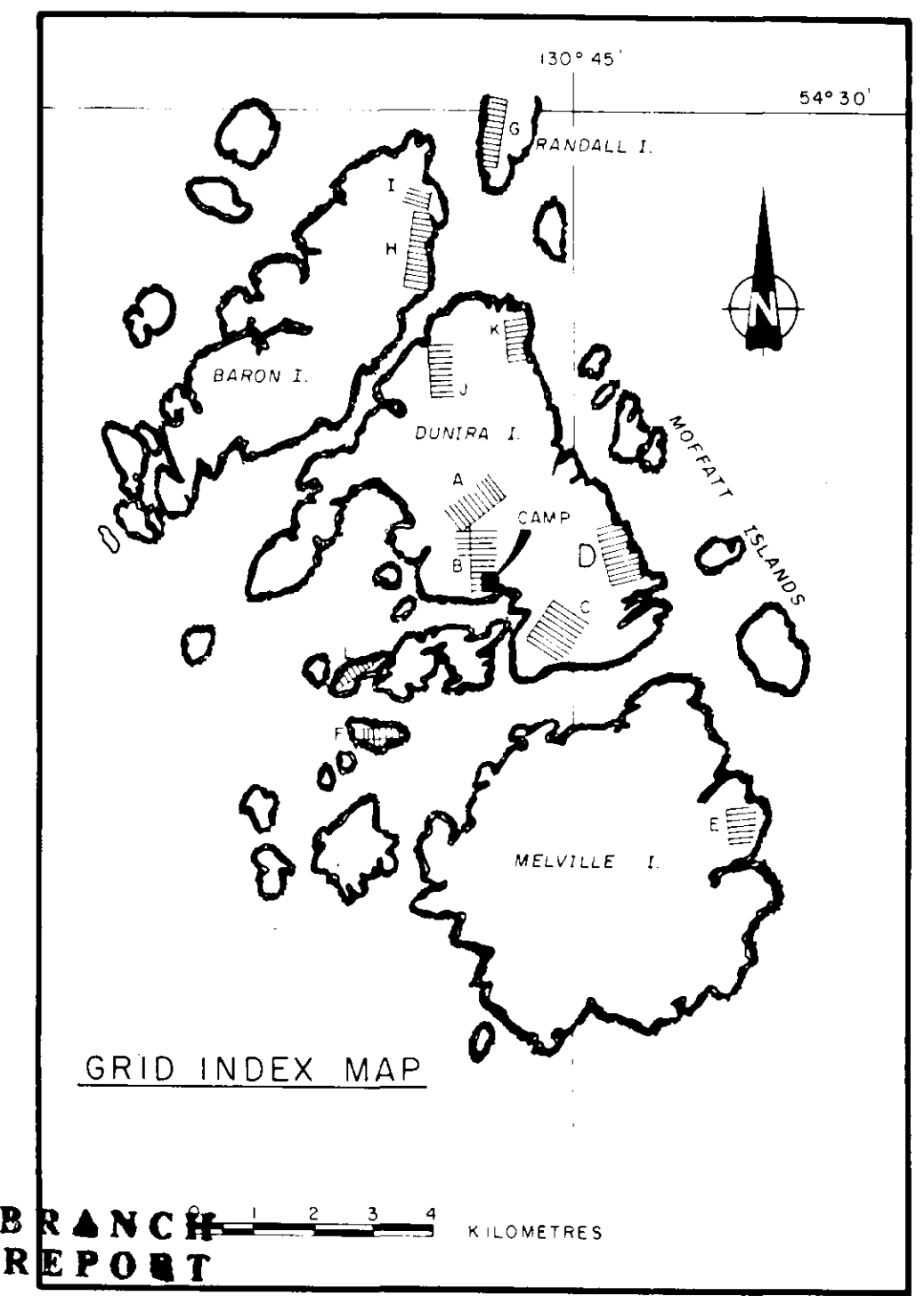


LEGEND:

OPERATOR - E. JONES

LINE 0+00N  
(READINGS WERE ALL UNSTABLE)

STA	READING RANGE	OFFSET
0+00E	57030 - 57050	-34
0+25E	NO READING	
0+50E	56860 - 56870	-33
	56850 - 56950	-33
	56980 - 57000	-34
0+75E	56500 - 56700	-34
	56700 - 56850	-34
1+00E	56500 - 57000	-33
	56710 - 56740	-31
1+25E	56740 - 56780	-31
	APPROX - 56725	-31
1+50E	56850 - 56900	-31
	56775 - 56785	-32



**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**

**12,777**  
**part 2**  
**of 2**

**BILLITON CANADA LTD.**  
COAST COPPER PROJECT  
DUNIRA ISLAND B.C. NTS 103-J/7

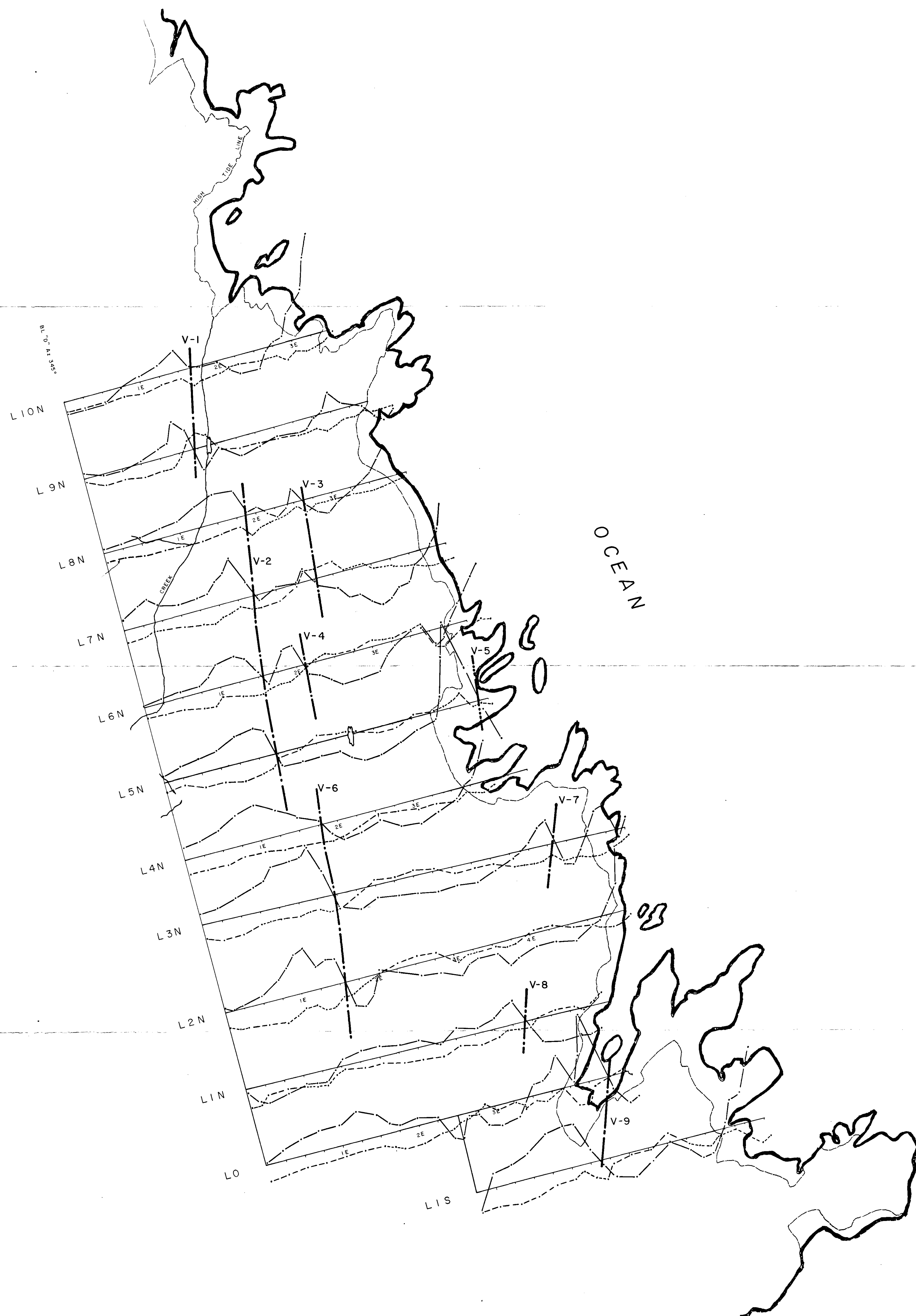
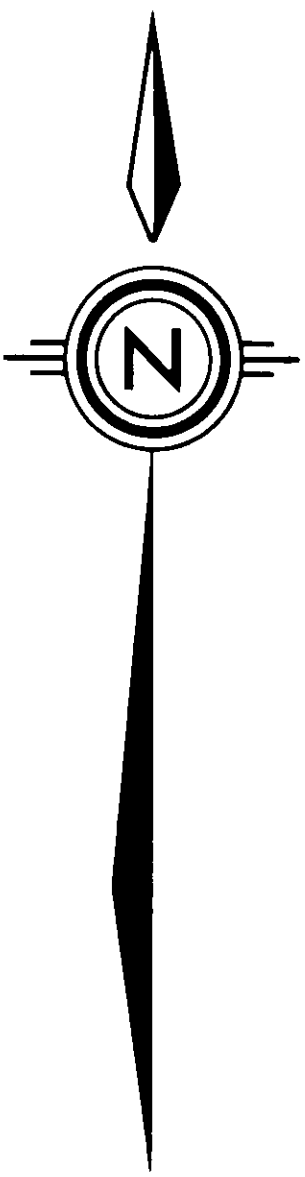
**GRID D**  
PROTON PRESSION  
MAGNETOMETER SURVEY

50 0 100 200 METRES

BY: M. CARR / rwr  
DATE: AUG. 1984

MAP NO. D-3a

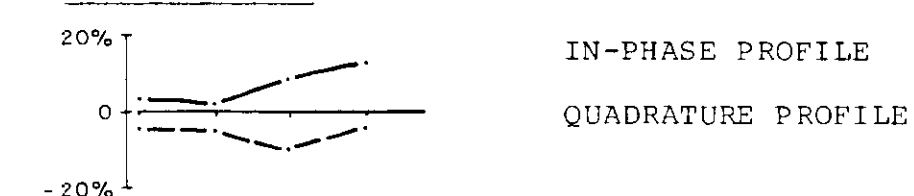




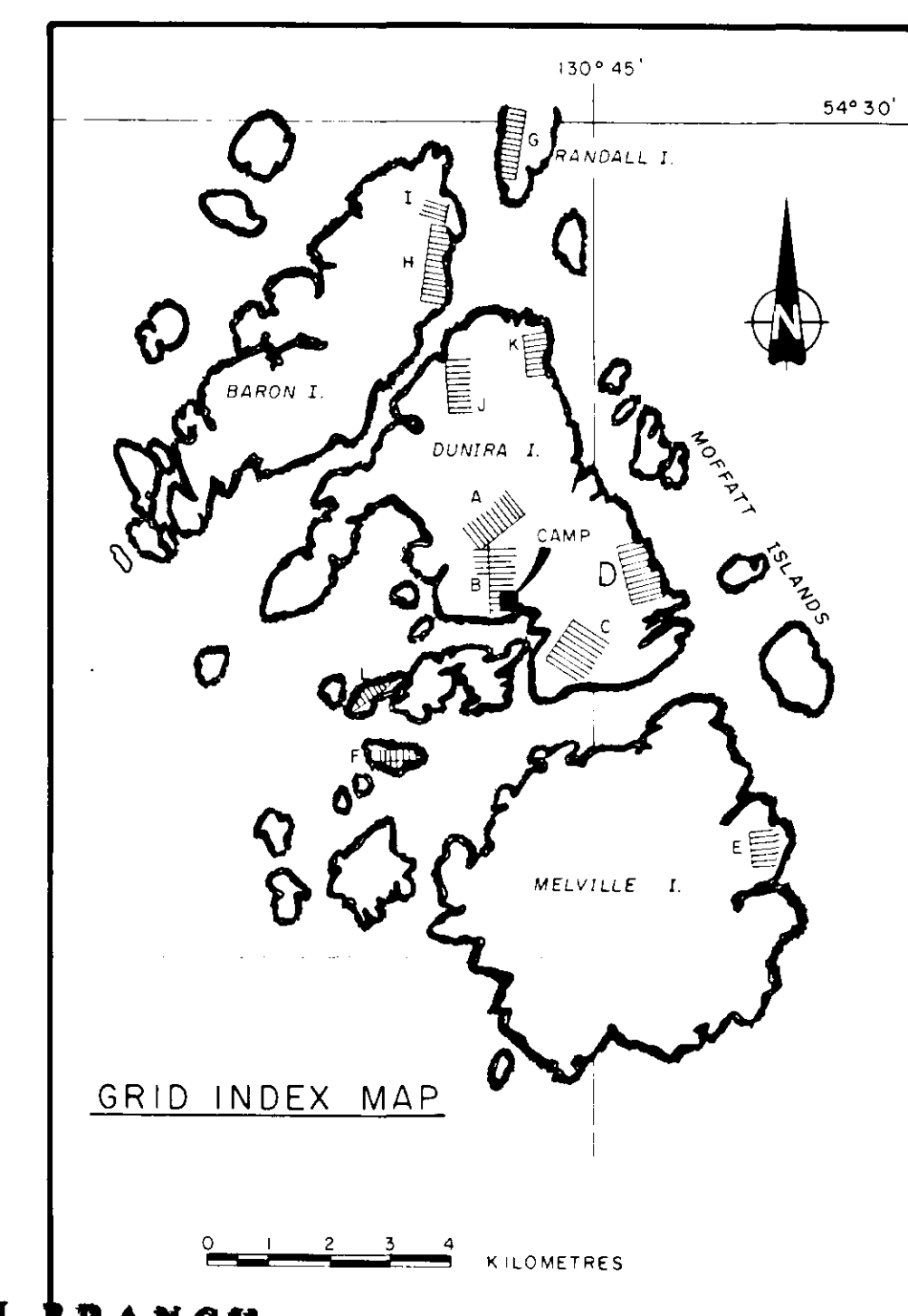
LEGEND:

INSTRUMENT: EM-16  
COIL SEPARATION = 100m  
STATION: NLK SEATTLE  
FACING EAST

PROFILE SCALE



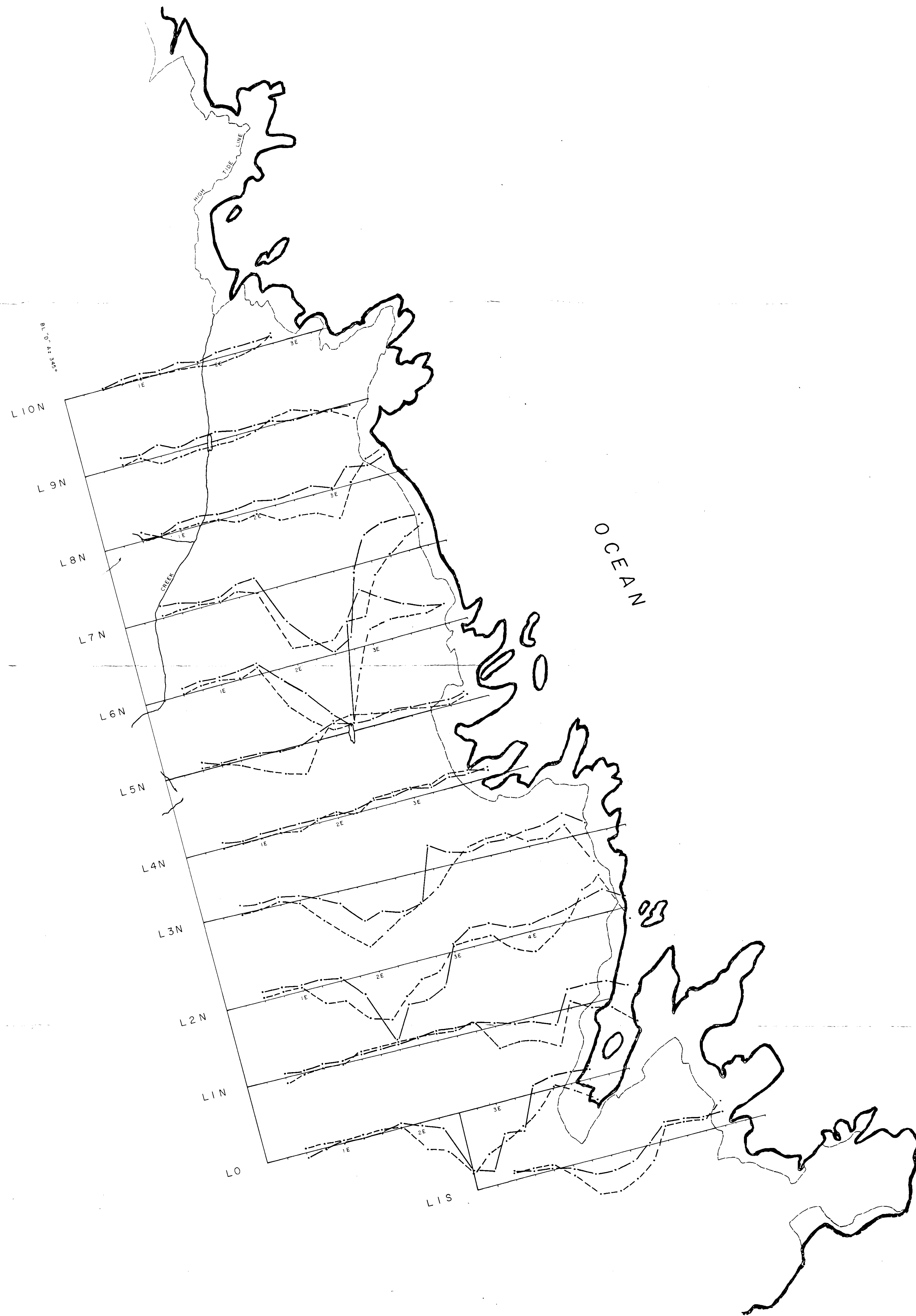
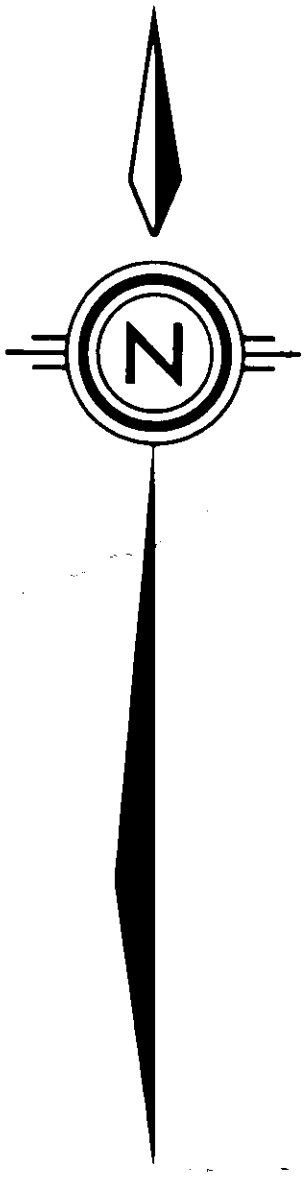
- WEAK ANOMALY
- - - MODERATELY STRONG ANOMALY
- · · STRONG ANOMALY



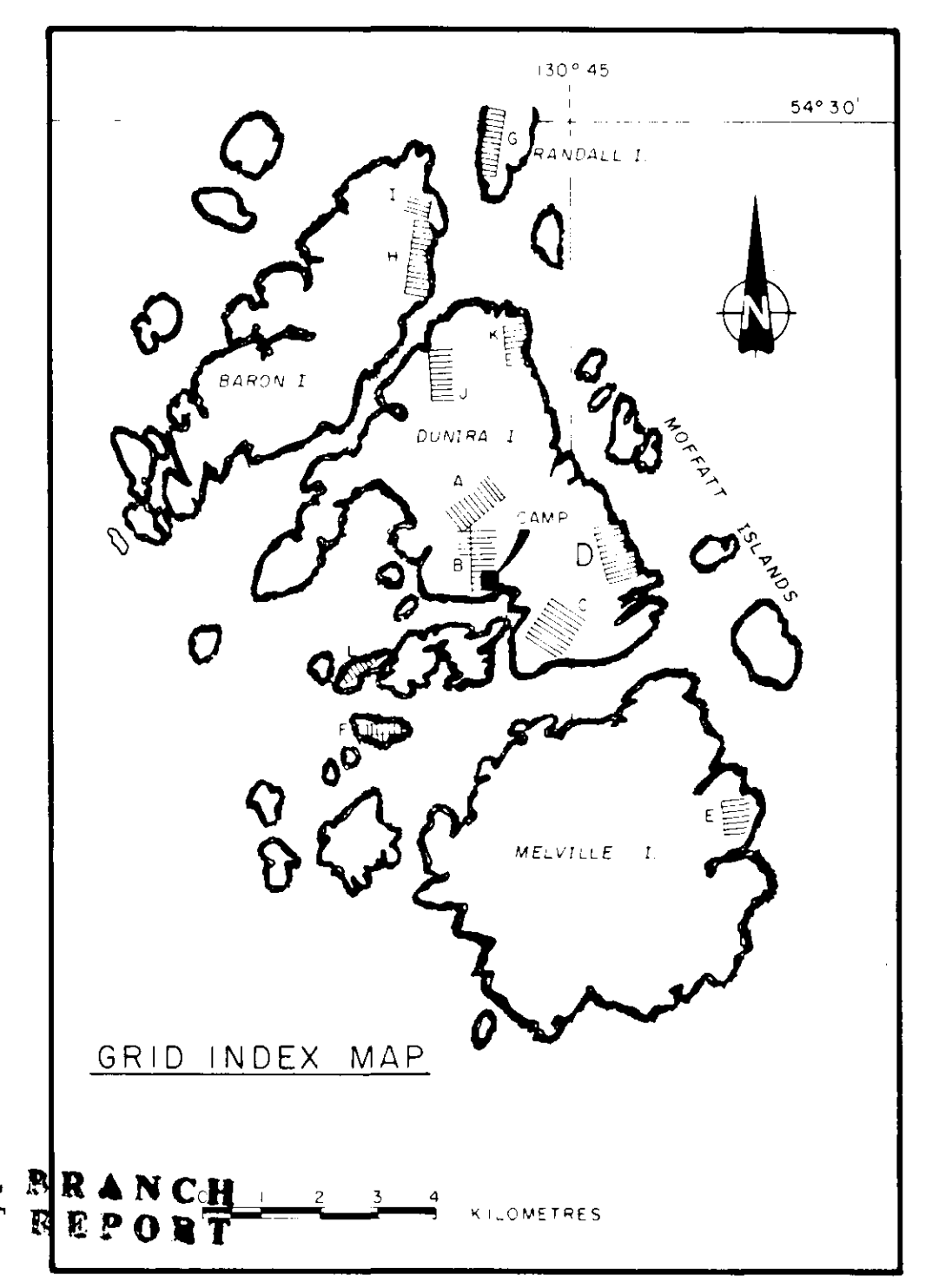
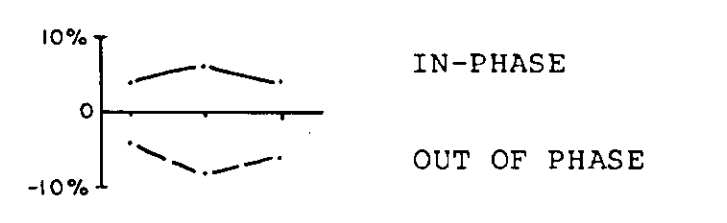
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

12,777  
part 2  
of 2

BILTON CANADA LTD.	
COAST COPPER PROJECT	
DUNIRA ISLAND BC.	NTS 103-J/7
GRID D	
VLF-EM SURVEY	
50 0 100 200 METRES	
BY: M CARR/rwr	MAP NO. D-3b
DATE: AUG, 1984	



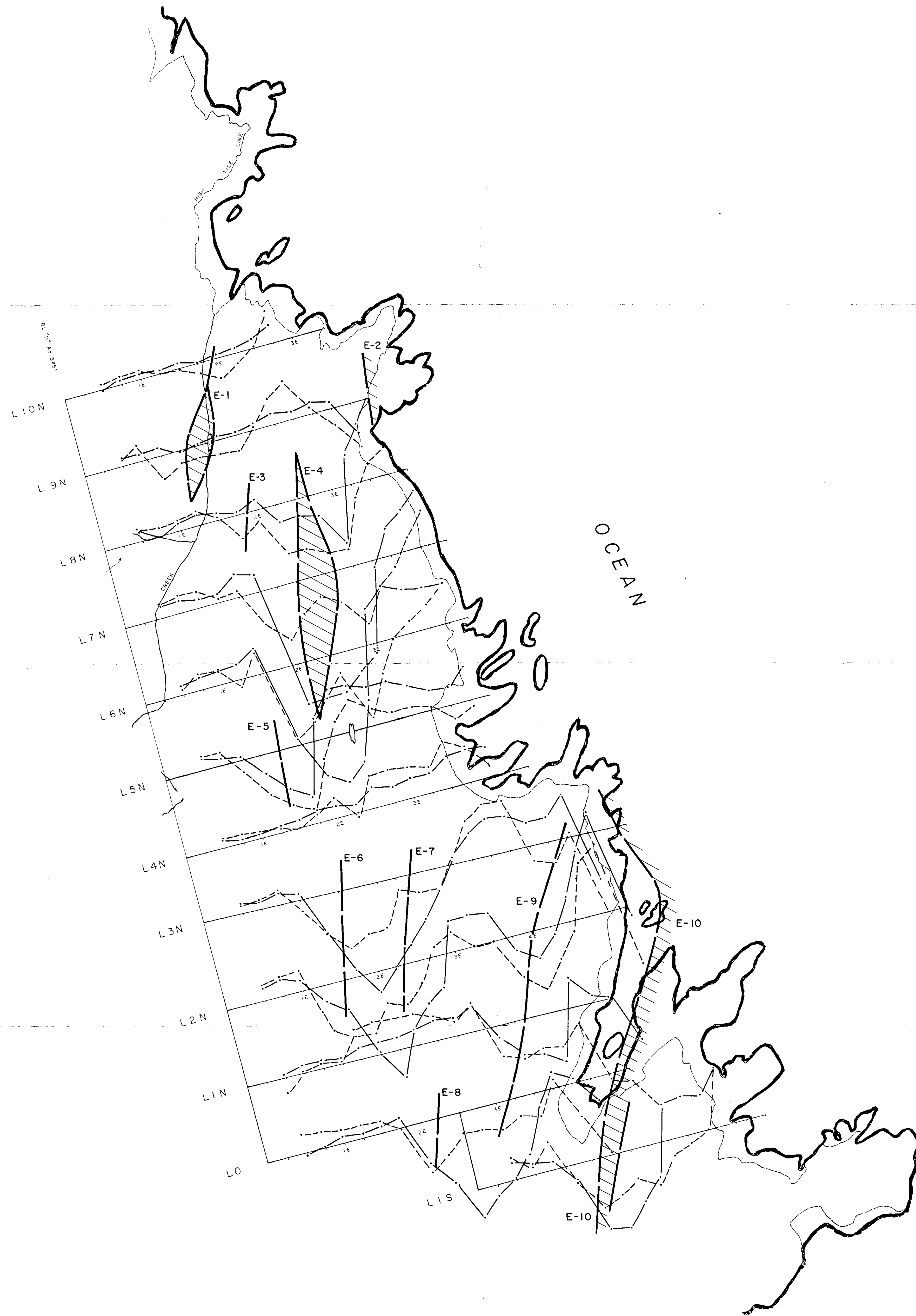
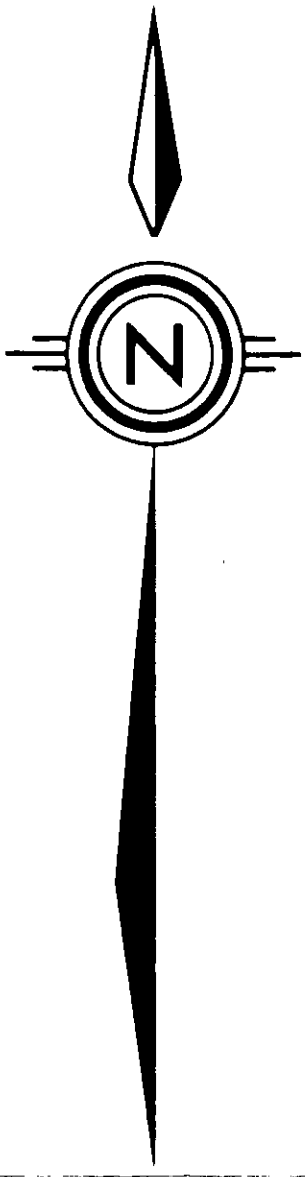
LEGEND:  
INSTRUMENT: MAX-MIN 2  
COIL SEPARATION = 100 METRES  
CORRECTED FOR TOPOGRAPHY



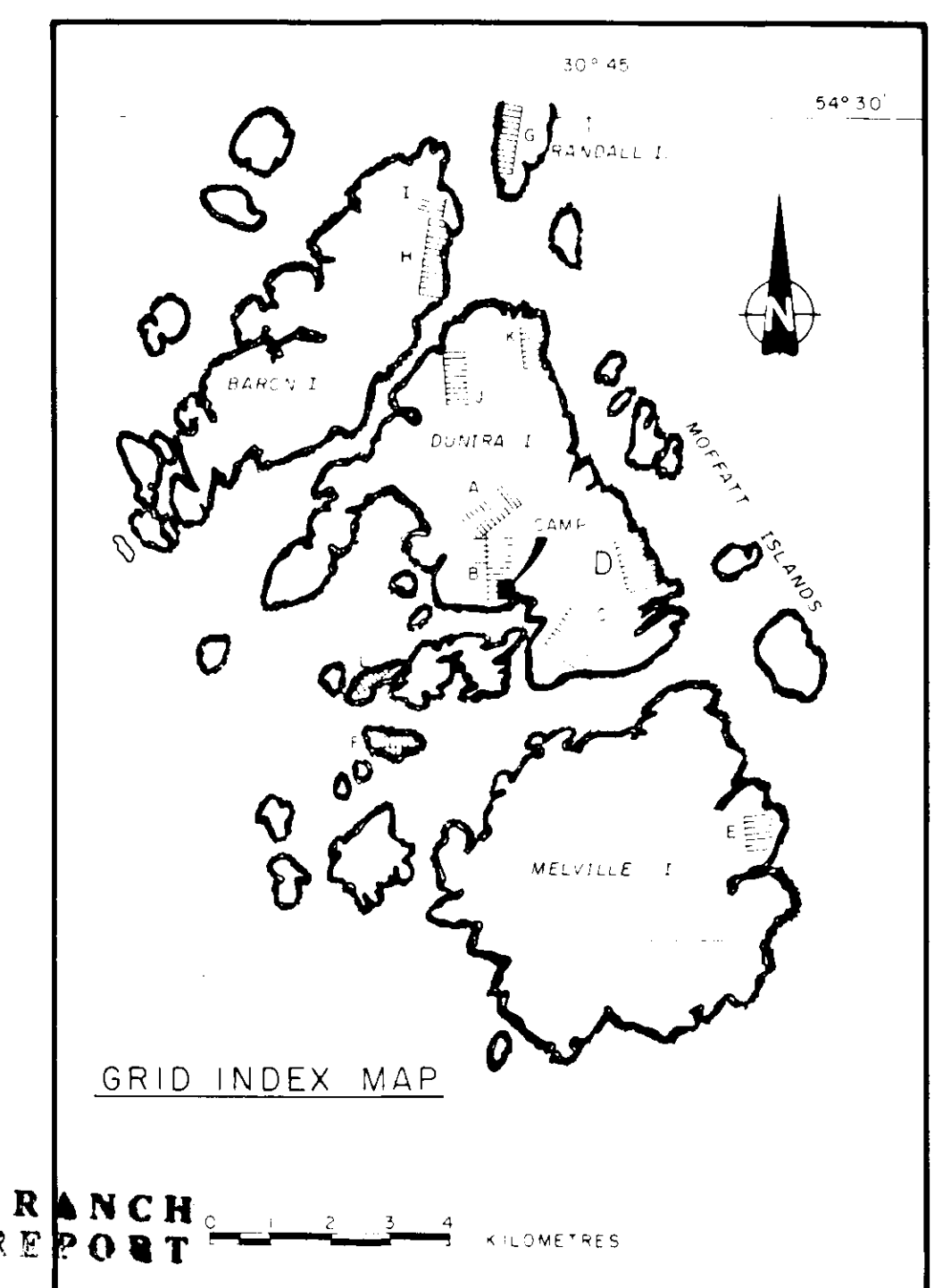
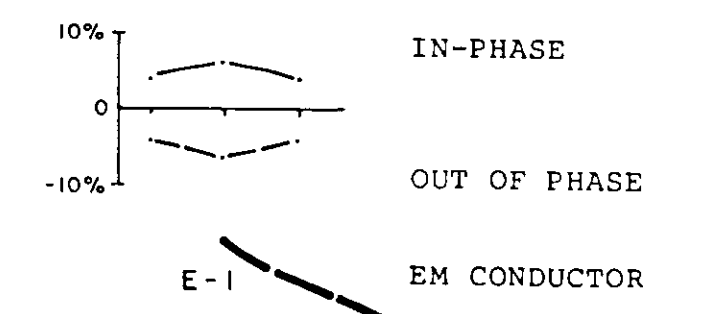
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

12,777  
part 2  
of 2

BILITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND B.C. NTS 103-J/7	
GRID <u>D</u>	
HORIZONTAL LOOP EM-SURVEY OP 444 Hz	
50 0 100 200 METRES	
BY: M. CARR / rwr	MAP NO. D-3c
DATE: AUG., 1984	



LEGEND:  
 INSTRUMENT: MAX-MIN 2  
 COIL SEPARATION = 100 METRES  
 CORRECTED FOR TOPOGRAPHY



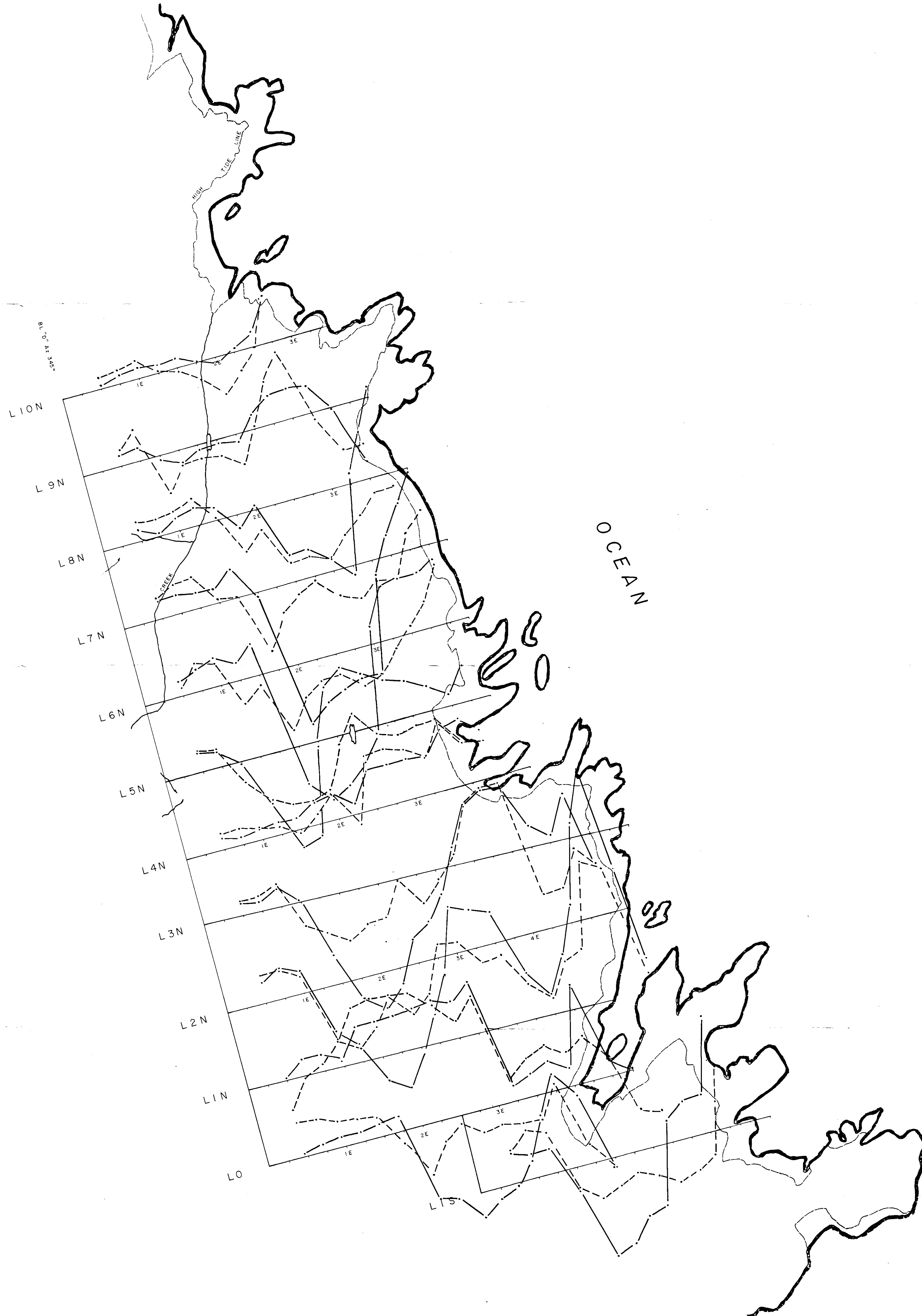
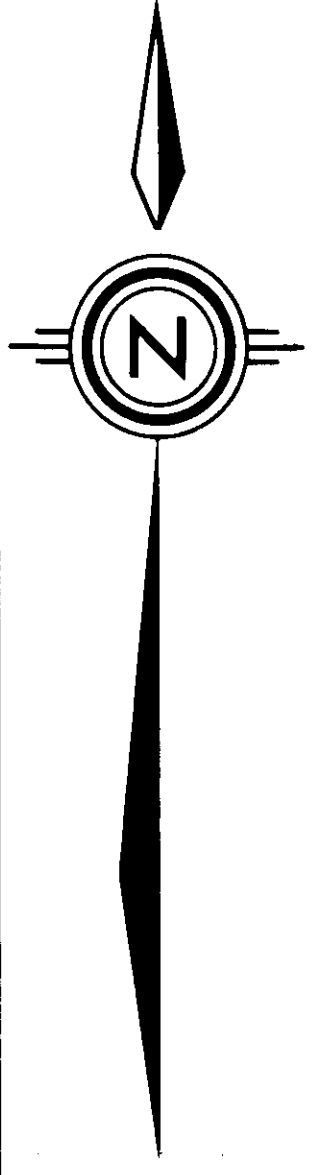
12,777  
 Part 2  
 of 2

12,777  
 BILLITON CANADA LTD.  
 COAST COPPER PROJECT  
 DUNIRA ISLAND BC NTS 103-J/7  
 GRID D  
 HORIZONTAL LOOP EM-SURVEY  
 OP 1777 Hz

50 0 100 200 METRES

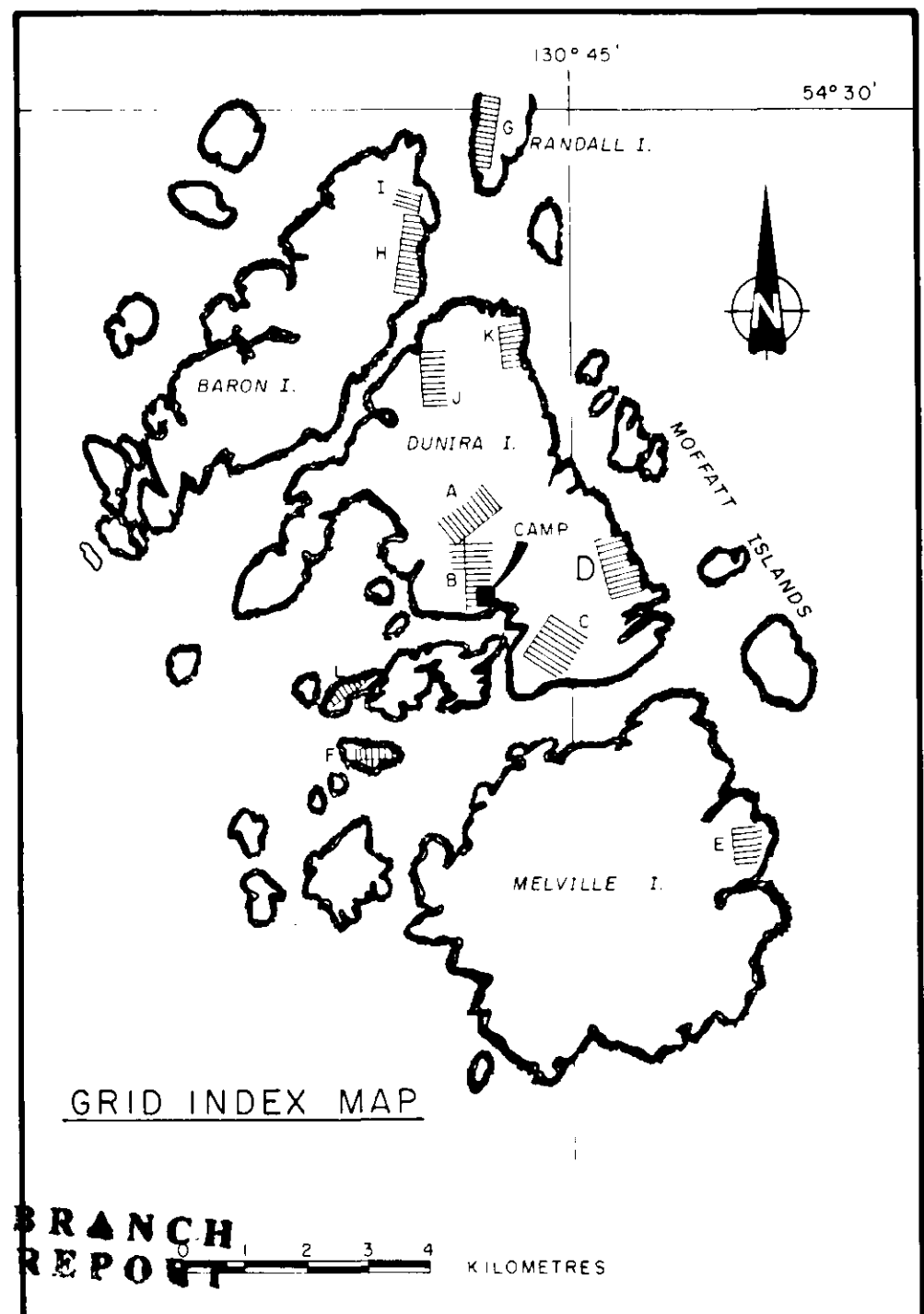
BY M CARR /rwr  
 DATE AUG, 1984

MAP NO. D-3d



LEGEND:  
 INSTRUMENT: MAX-MIN 2  
 COIL SEPARATION = 100 METRES  
 CORRECTED FOR TOPOGRAPHY

10% ——— IN-PHASE  
 0 ———  
 -10% ——— OUT OF PHASE



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 part 2  
 of 2

**BILLITON CANADA LTD.**  
 COAST COPPER PROJECT  
 DUNIRA ISLAND BC. NTS 103-J/7  
**GRID D**  
 HORIZONTAL LOOP EM-SURVEY  
 OP 3555 Hz.

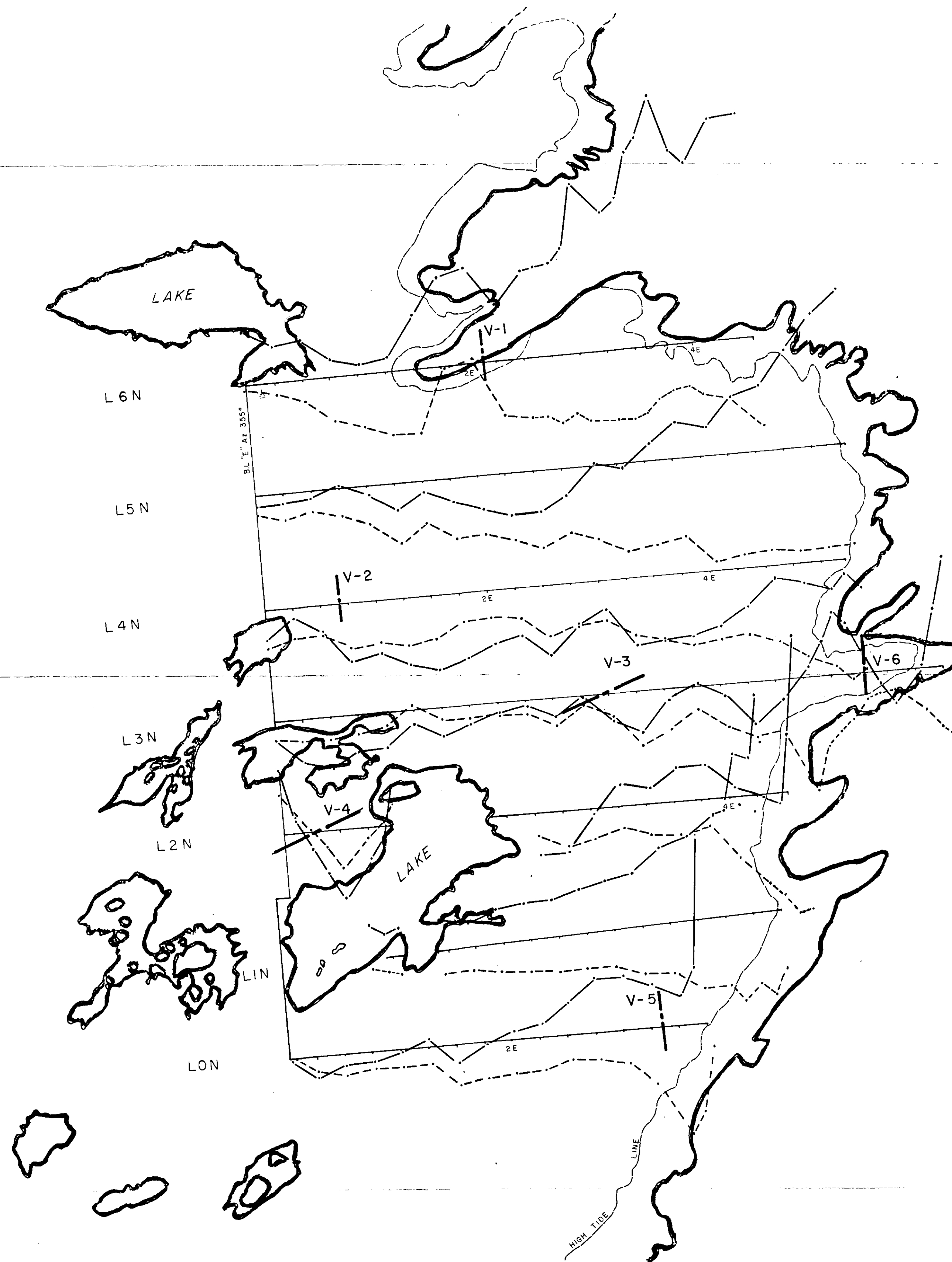
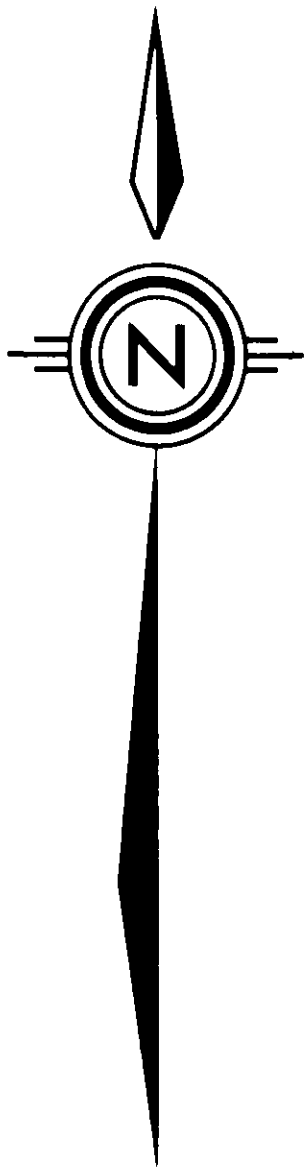
50 0 100 200 METRES

BY: M. CARR / rwr  
 DATE: AUG., 1984  
 MAP NO. D-3e





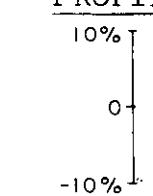




LEGEND:

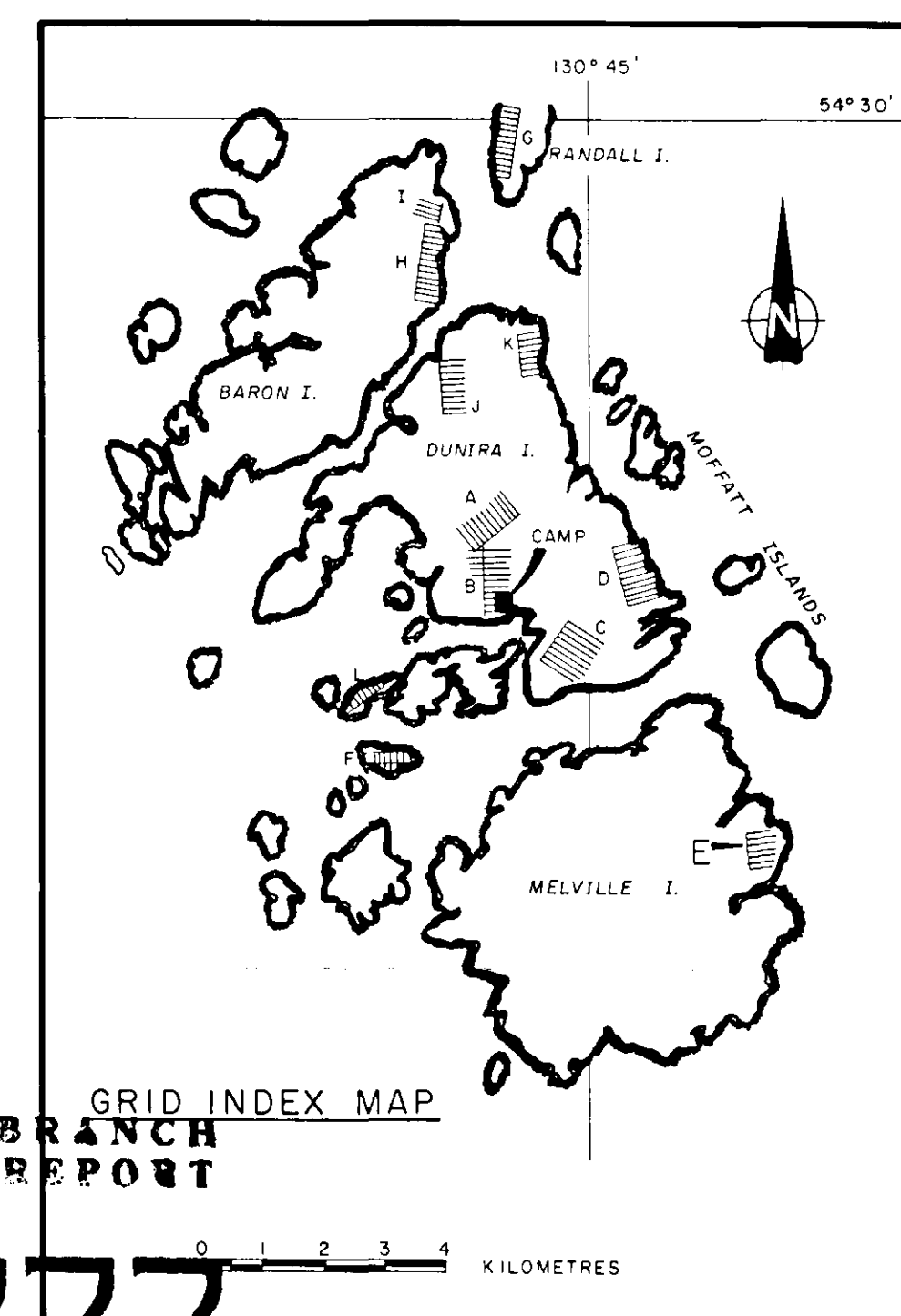
INSTRUMENT: EM-16  
COIL SEPARATION = 100m  
STATION: NLK SEATTLE  
FACING EAST

PROFILE SCALE



IN-PHASE PROFILE  
QUADRATURE PROFILE

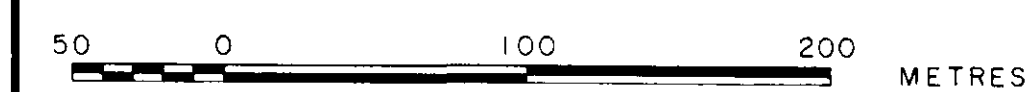
--- WEAK ANOMALY



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

12,777  
part 2  
of 2

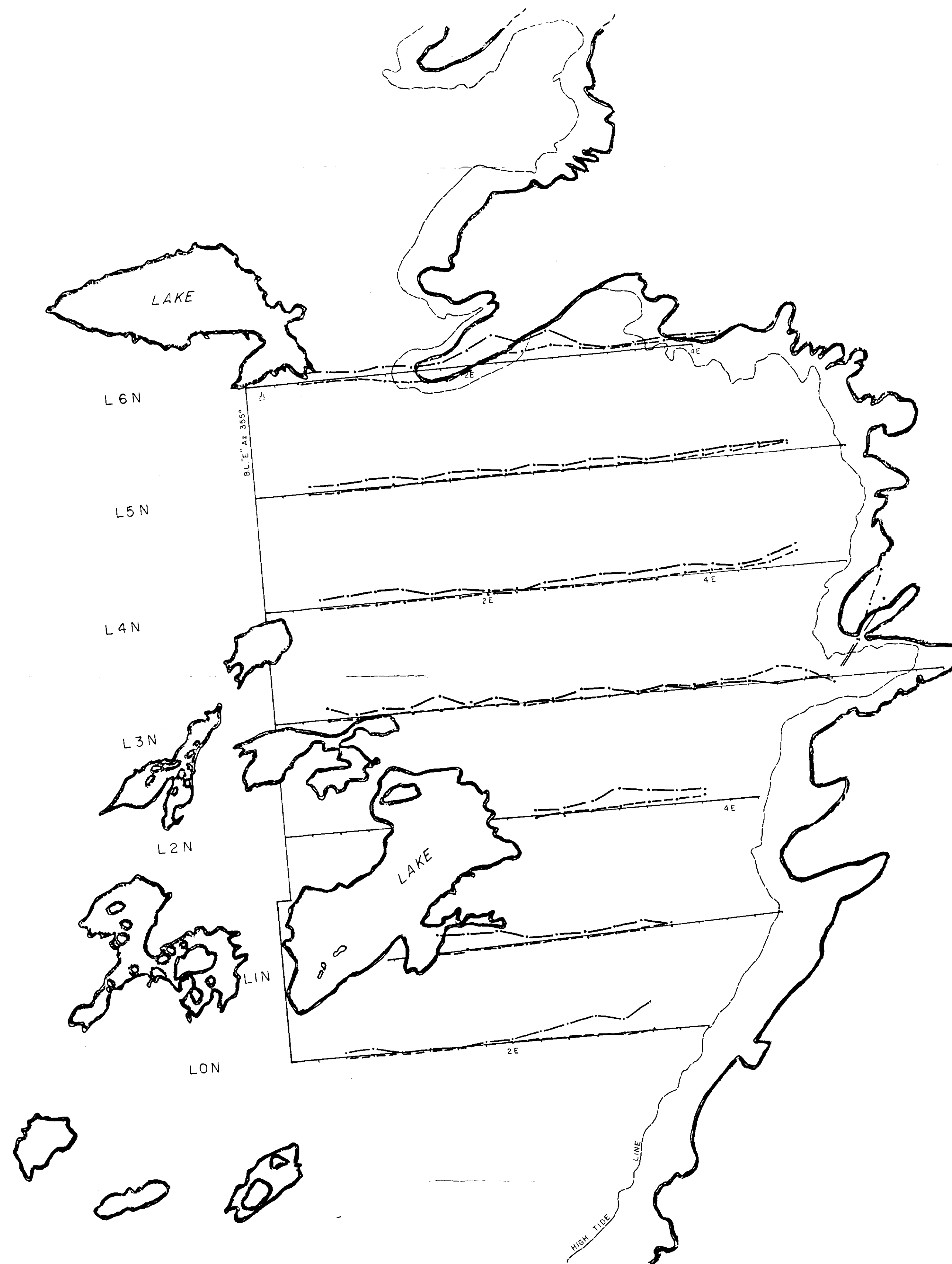
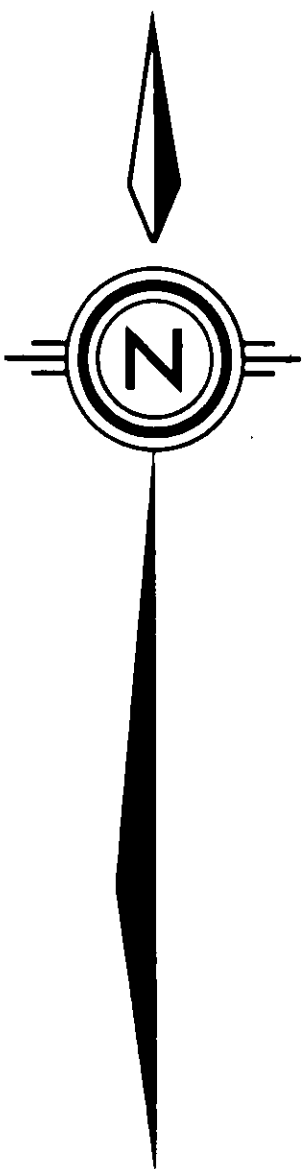
BILLITON CANADA LTD.  
COAST COPPER PROJECT  
DUNIRA ISLAND B.C. NTS 103-J/7  
GRID E  
VLF-EM SURVEY



BY: M. CARR / rwr  
DATE: AUG., 1984

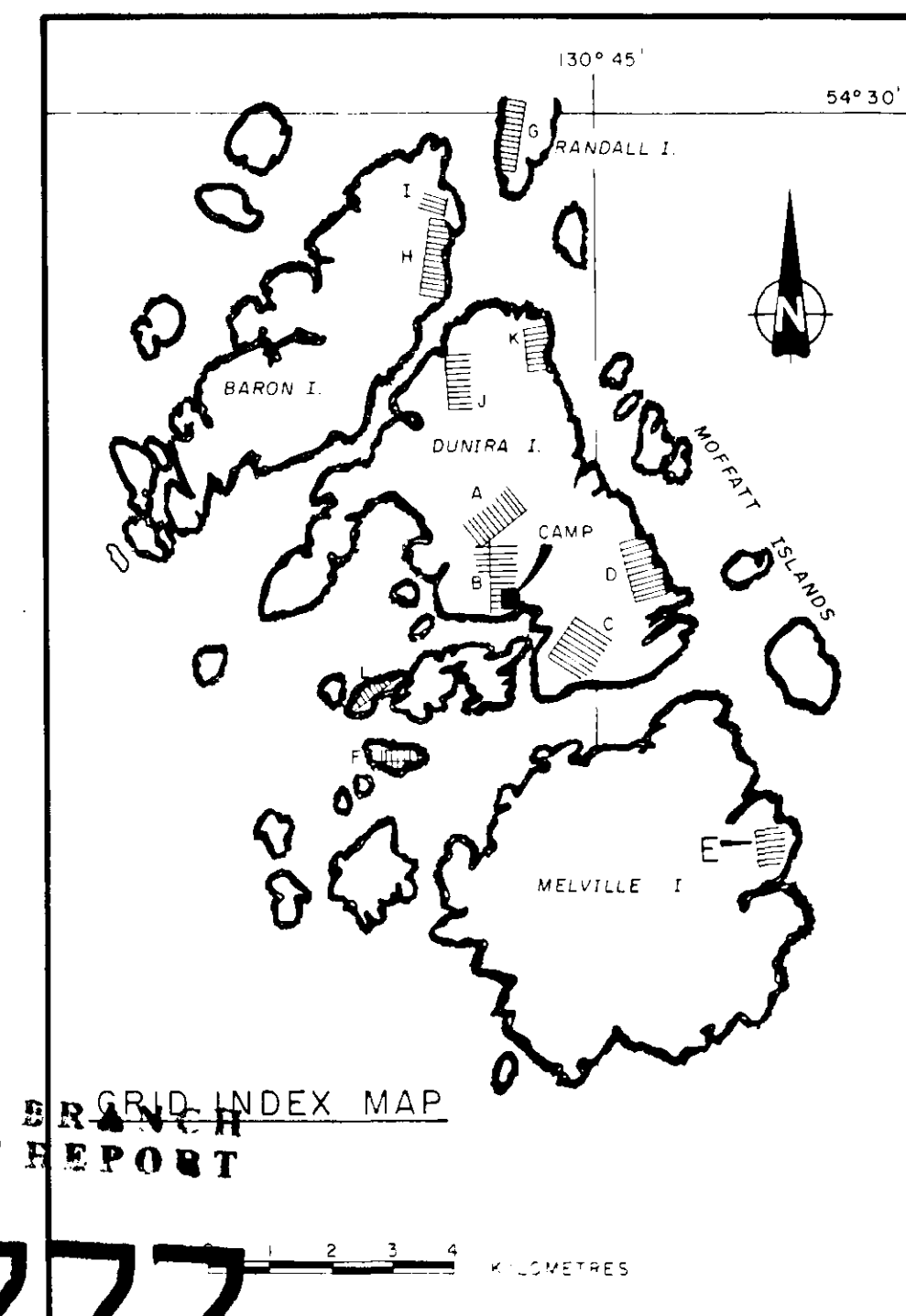
MAP NO. E-3B





LEGEND:  
INSTRUMENT: MAX-MIN 2  
COIL SEPARATION = 100 METRES  
CORRECTED FOR TOPOGRAPHY

10% IN-PHASE  
0  
-10% OUT OF PHASE



GEOLOGICAL BRANCH  
AGREEMENT REPORT

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part 2  
of 2

BILLITON CANADA LTD.

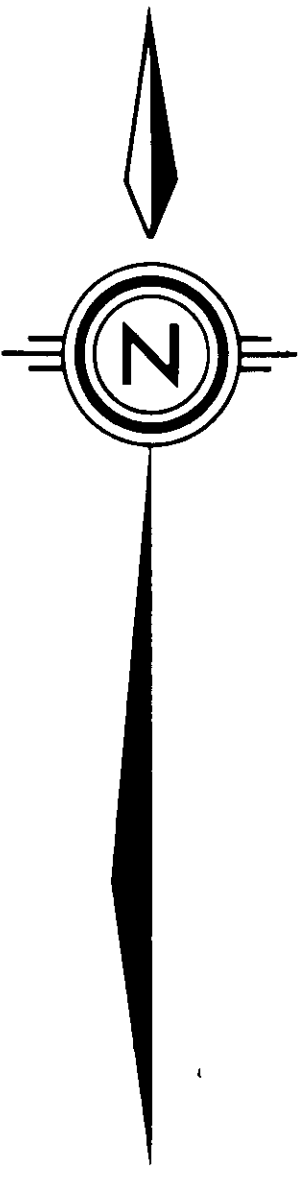
COAST COPPER PROJECT  
DUNIRA ISLAND BC. NTS 103-J/7

GRID E  
HORIZONTAL LOOP EM-SURVEY  
OP 444 Hz.

50 0 100 200 METRES

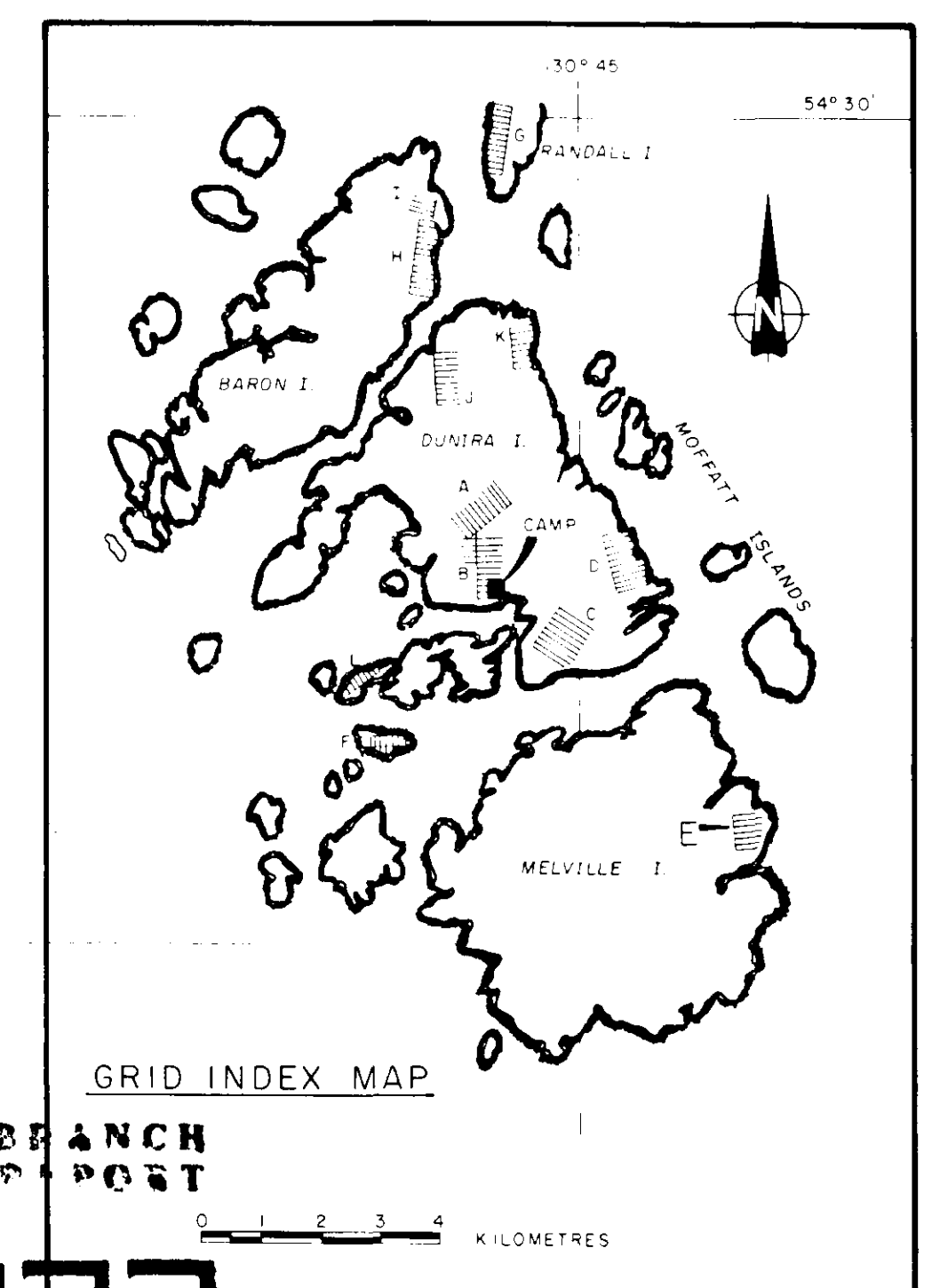
BY: M. CARR / rwr.  
DATE: AUG., 1984

MAP NO. E-3c



LEGEND:  
INSTRUMENT: MAX-MIN 2  
COIL SEPARATION = 100 METRES  
CORRECTED FOR TOPOGRAPHY

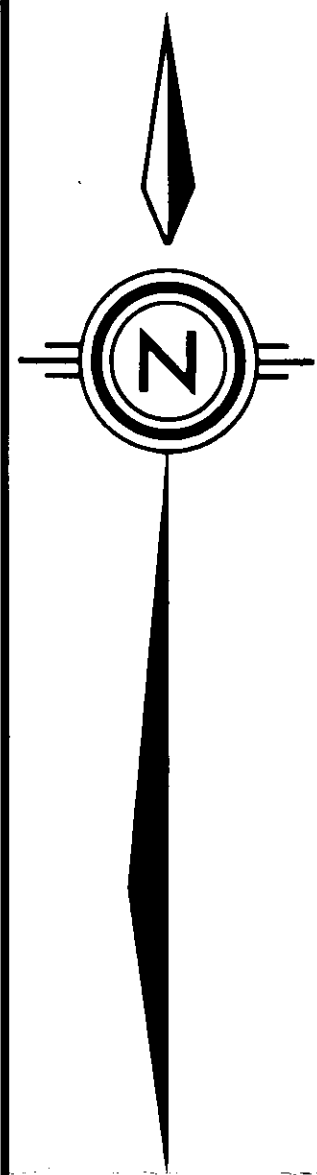
10%  
0  
-10%  
IN-PHASE  
OUT OF PHASE  
EM CONDUCTOR



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Part 2  
of 2

BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND BC. NTS 103-J/7	
GRID E	
HORIZONTAL LOOP EM-SURVEY OF 1777 Hz.	
BY M CARR / rwr	MAP NO. E-3d
DATE AUG, 1984	





**LEGEND**

UNIT	DESCRIPTION
6	GRANODIORITE and GRANODIORITE SILLS: Massive sills are locally strongly pyritic Map Symbols - GRDR, DISP
5A	HORNFELDED SEDIMENTS of Unit 2, adjacent to sills. Map Symbol - SUL1
5	DIOITE SILLS, DYKES and PLUTONS: Variable mafic content, foliated Map Symbols - DISM, DDCI, DDM, DION, QI DION
4	MAFIC FLOWS and SILLS: Pyroxene porphyry and biotite porphyry crystal lapilli tuffs and flows, agglomerates and minor pyroxenite sills Map Symbols - FKPP, BIPP
3	GRAPHITIC SHALES: Slaty, pyritic zones, forms lenses within Unit 2, occasional chert Map Symbols - PHGR, SEDC GR, SHALE
2	CHEMICAL and CLASTIC SEDIMENTS: Cherts, pyritic cherts, siltstones, sedimentary and volcanic phylites, chert pebble conglomerates, volcanogenic sediments, sandstones, siltstones Map Symbols - SEDC, SULS, SEDA, PHSD, PHVC, SAND, CGLS, SDVC, SST, SILT
1	FELSIC TUFFS: Rhyolite or andesite crystal tuffs. Map Symbols - TPRV, TRAN, RMY, TFDC, FKPP

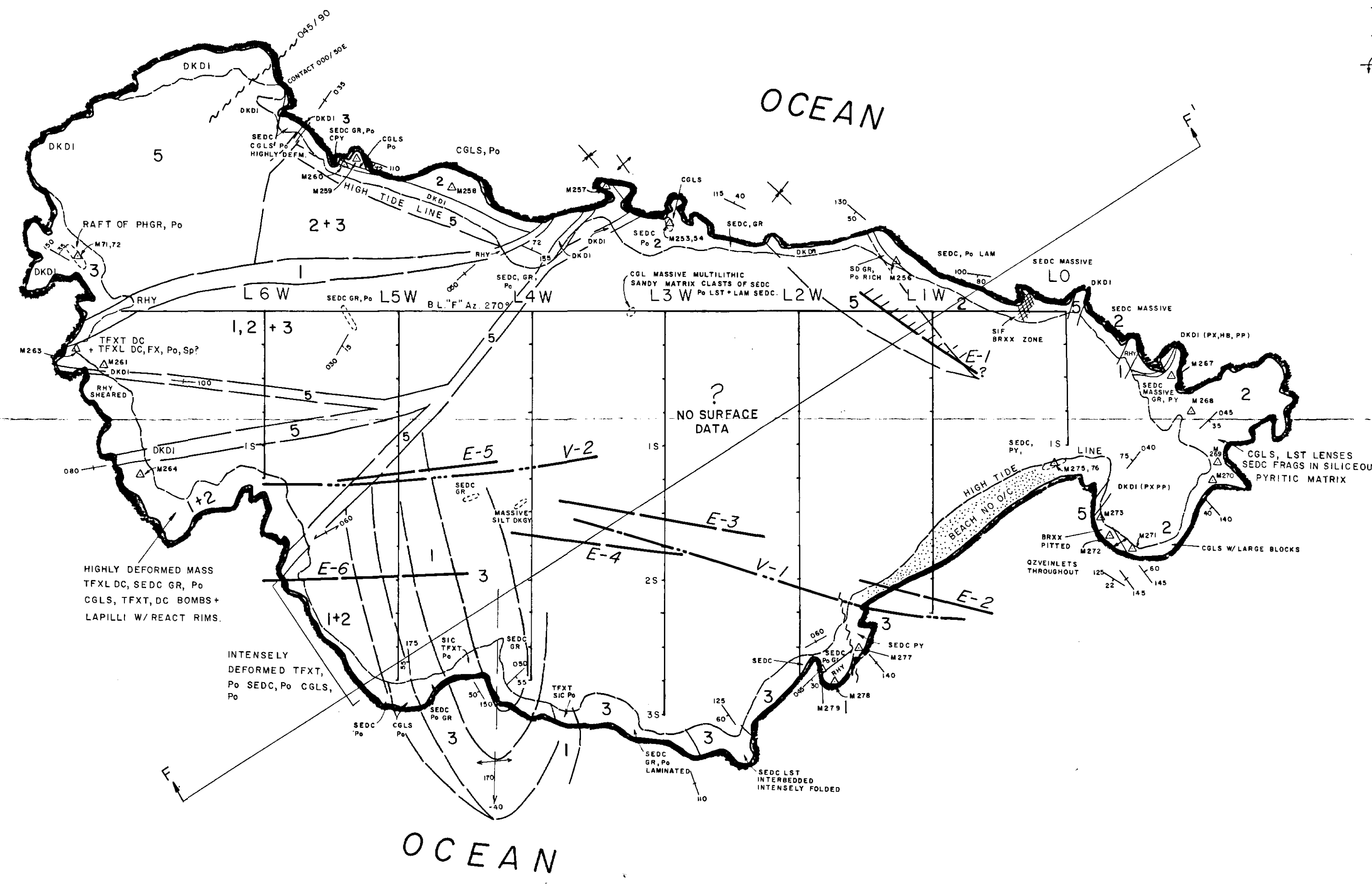
- Geological Contact - observed
- - - Geological Contact - approximate
- Geological Contact - assumed
- ~ Fault
- ~ Thrust Fault
- HLEN or VLF-EM Conductor - weak (E)
- VLF-EM Conductor - moderate (V)
- VLF-EM Conductor - strong (V)
- ⊕ Anticlinal Axis
- ⊖ Synclinal Axis
- ⊕ Overturned Anticlinal Axis with dip of axial plane and plunge of hinge line
- ↘ Strike and dip of bedding
- ↙ Strike and dip of foliation
- ↗ Azimuth and plunge of lineation
- △ ROCK SAMPLE LOCATION
- Approximate shape and position of mapped outcrop
- ▨ Alteration Zone

**MINERAL ABBREVIATIONS AND NOTATIONS**

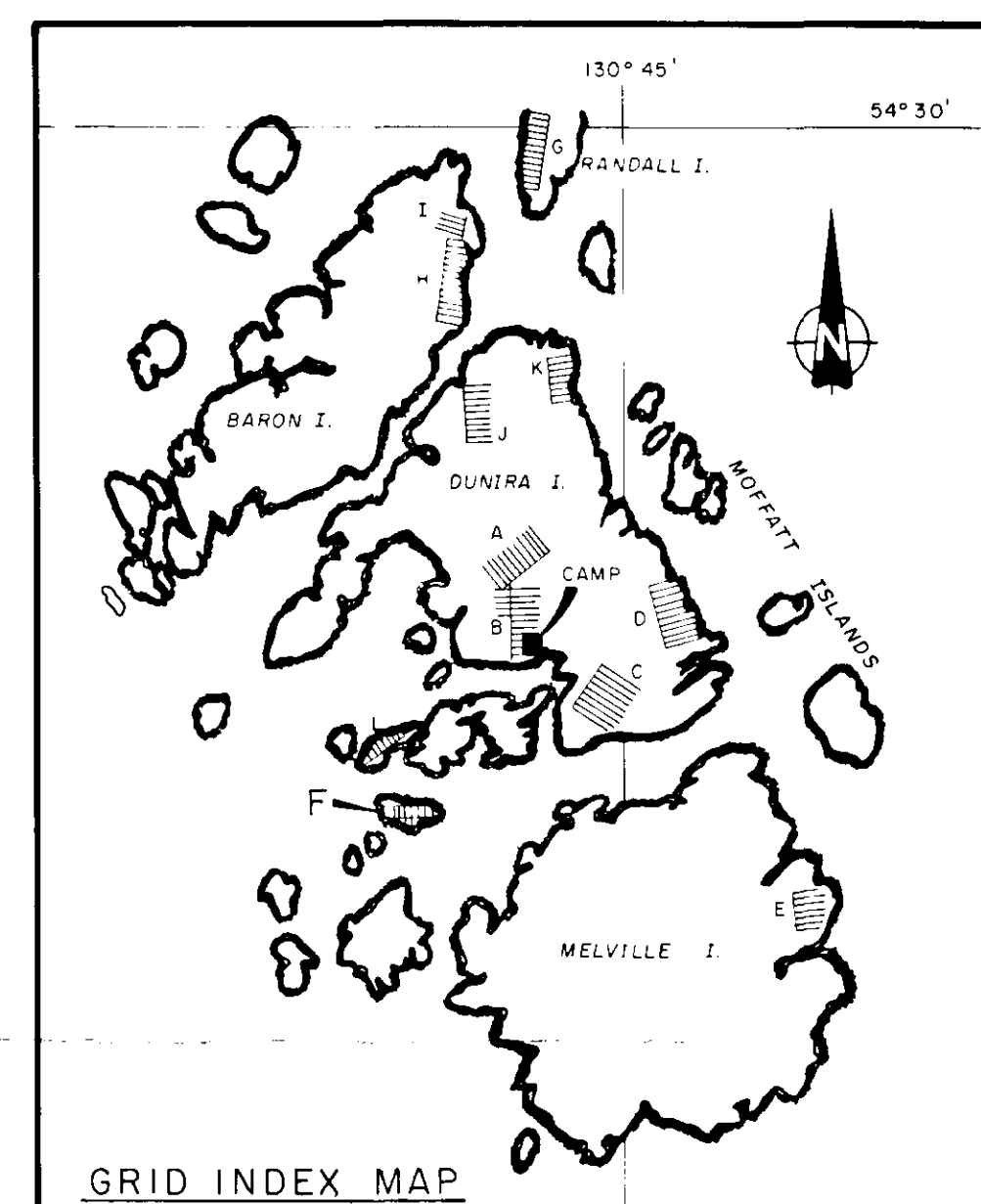
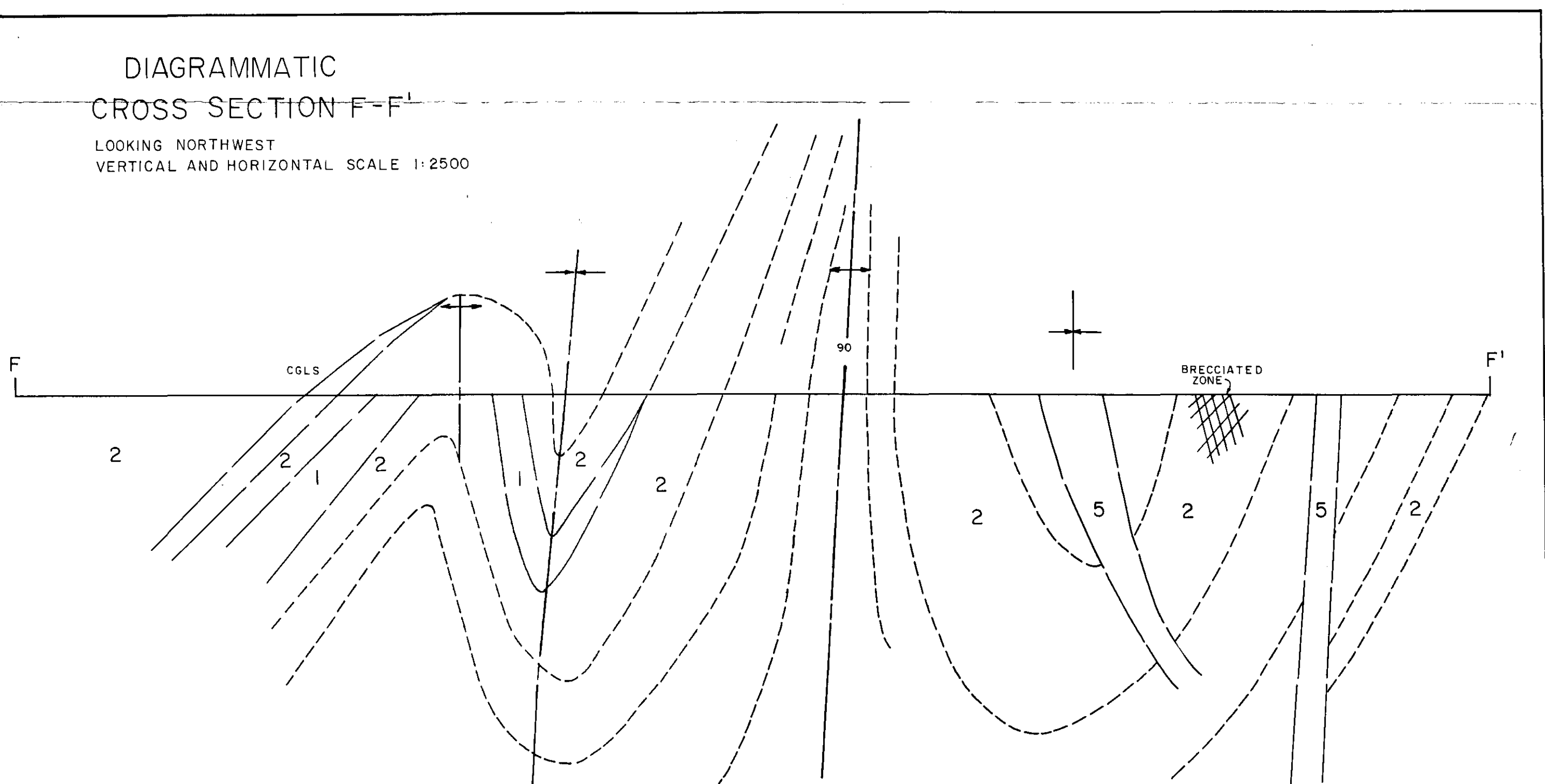
ALT	alteration	LAM	laminated
BI	biotite	MF	mafic
BLK	black	MS	sericite
BO	bornite	MU	mucoovite
BREX	breccia	Py	pyroxenite
CB	calcite	PP	phenocrysts
CL	chlorite	PX	pyroxene
CP	chalcopyrite	PY	pyrite
DC	dacite	QZ	quartz
FOL	foliated	SERP	serpentine
GL	galena	SH	sheared
GR	graphite	SIC	silicious
GS	grey sulphide	SIF	silicified
GY	grey	SP	sphalerite
HB	hornblende	VN	vein
KA	kaolinite		

**ROCK GEOCHEMISTRY**

SAMPLE NUMBER	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)
M 71	168	89	340	1.8
M 72	184	48	700	1.3
M253	51	25	155	0.8
M254	52	10	21	0.4
M256	137	110	485	2.0
M257	59	18	68	0.4
M258	62	22	1890	0.8
M259	94	10	82	0.6
M260	68	22	422	0.6
M261	44	8	62	0.4
M263	10	22	143	0.9
M264	45	15	72	0.8
M267	139	76	227	1.6
M268	160	80	510	1.8
M269	57	14	63	0.6
M270	51	10	82	0.6
M271	39	22	81	0.4
M272	46	18	39	0.6
M273	94	30	85	1.0
M275	44	32	87	0.4
M276	50	22	100	1.0
M277	77	18	80	0.6
M278	11	10	15	0.2
M279	44	20	90	0.2



**DIAGRAMMATIC CROSS-SECTION F-F'**  
LOOKING NORTHWEST  
VERTICAL AND HORIZONTAL SCALE 1:2500

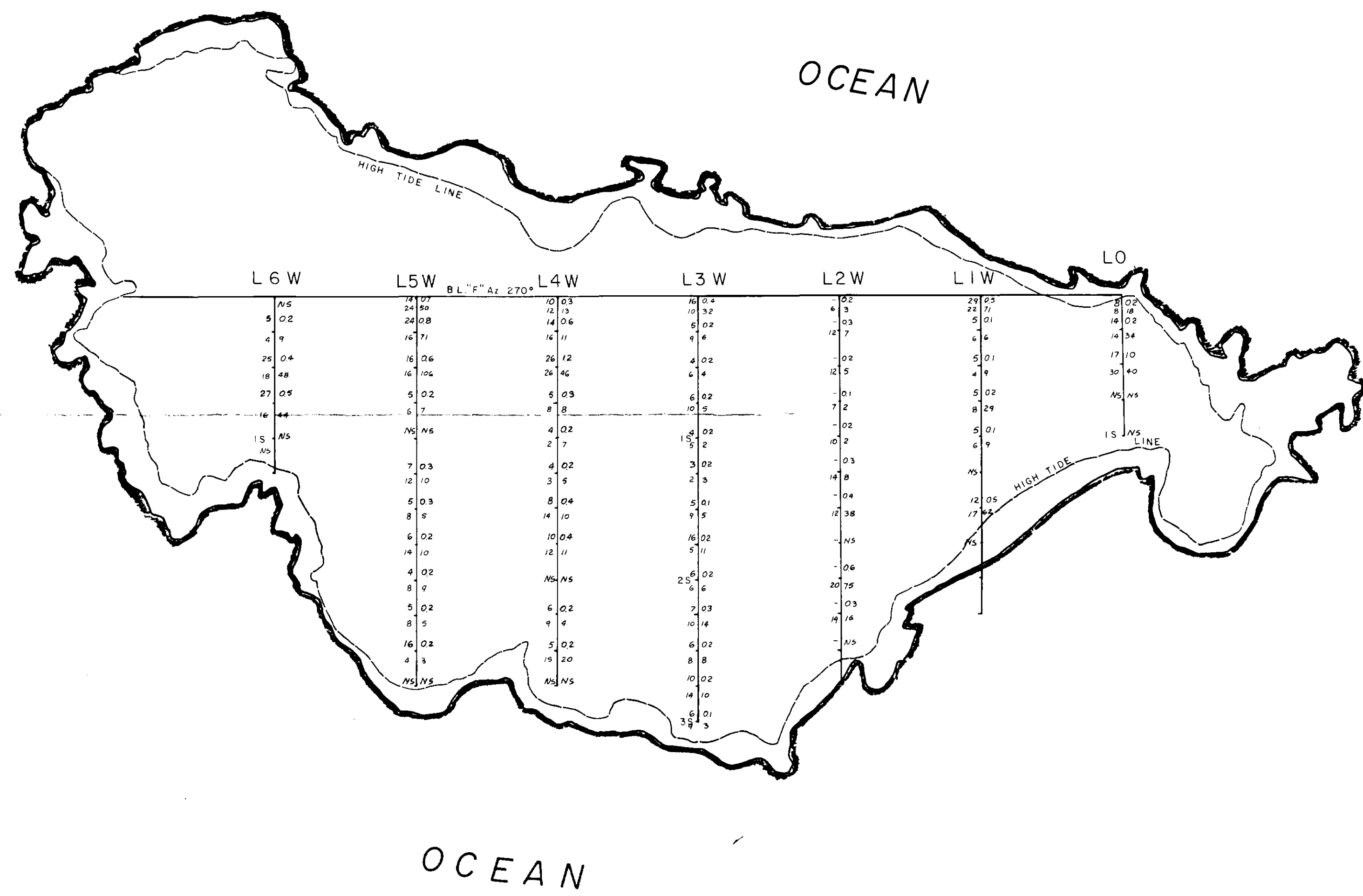
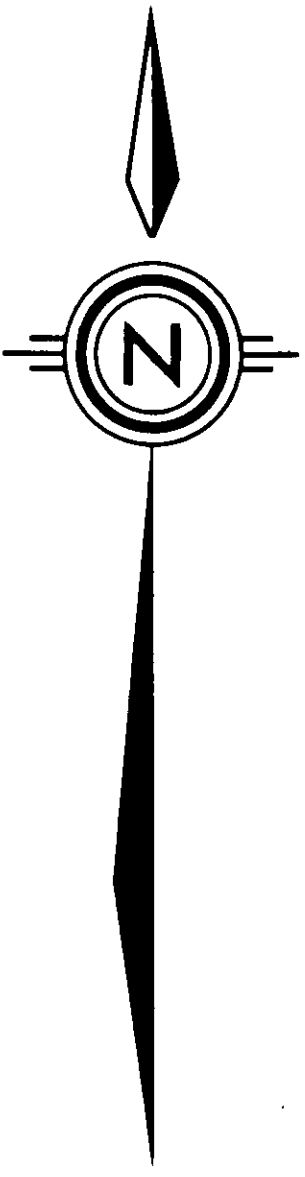


**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**12,777**  
**part 2 of 2**

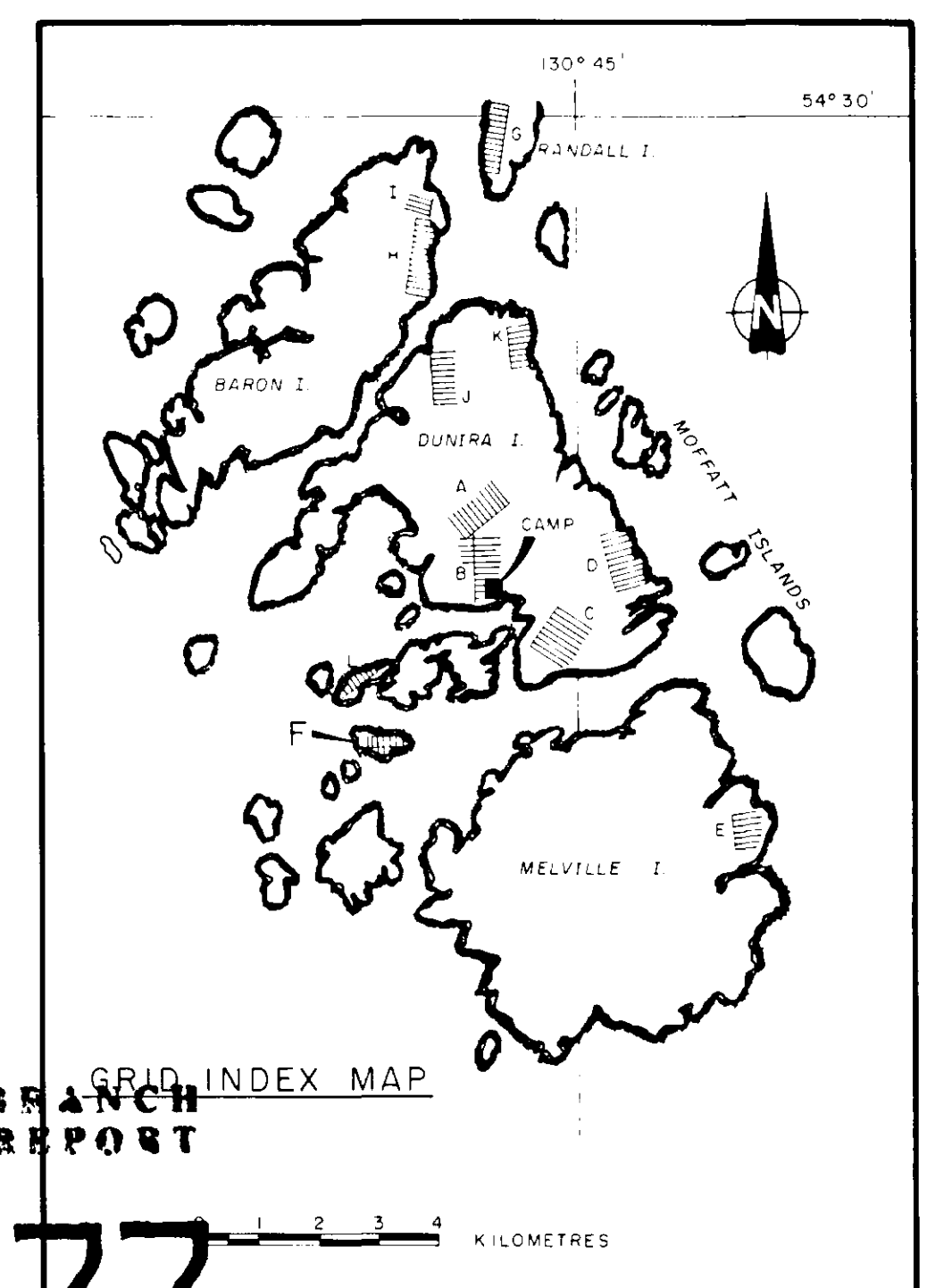
**BILLITON CANADA LTD.**  
COAST COPPER PROJECT  
DUNIRA ISLAND BC. NTS 103-J/7  
**GRID E**  
**GEOLOGY MAP**

50 0 100 200 METRES  
BY: M. CARR / rwr  
DATE: AUG., 1984  
MAP NO. E-1



LEGEND:

Cu, Ag, Pb, Zn VALUES IN PPM  
 NS = NO SAMPLE TAKEN



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 part 2  
 of 2

**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

**GRID INDEX MAP**

**BILLITON CANADA LTD.**

COAST COPPER PROJECT  
 DUNIRA ISLAND BC. NTS 103-J/7.

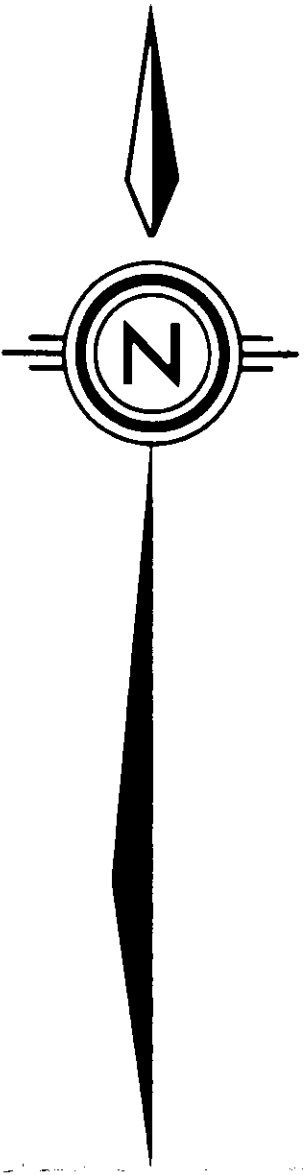
**GRID E**

SOIL GEOCHEMICAL SURVEY  
 Cu, Ag, Pb & Zn RESULTS

50 0 100 200 METRES

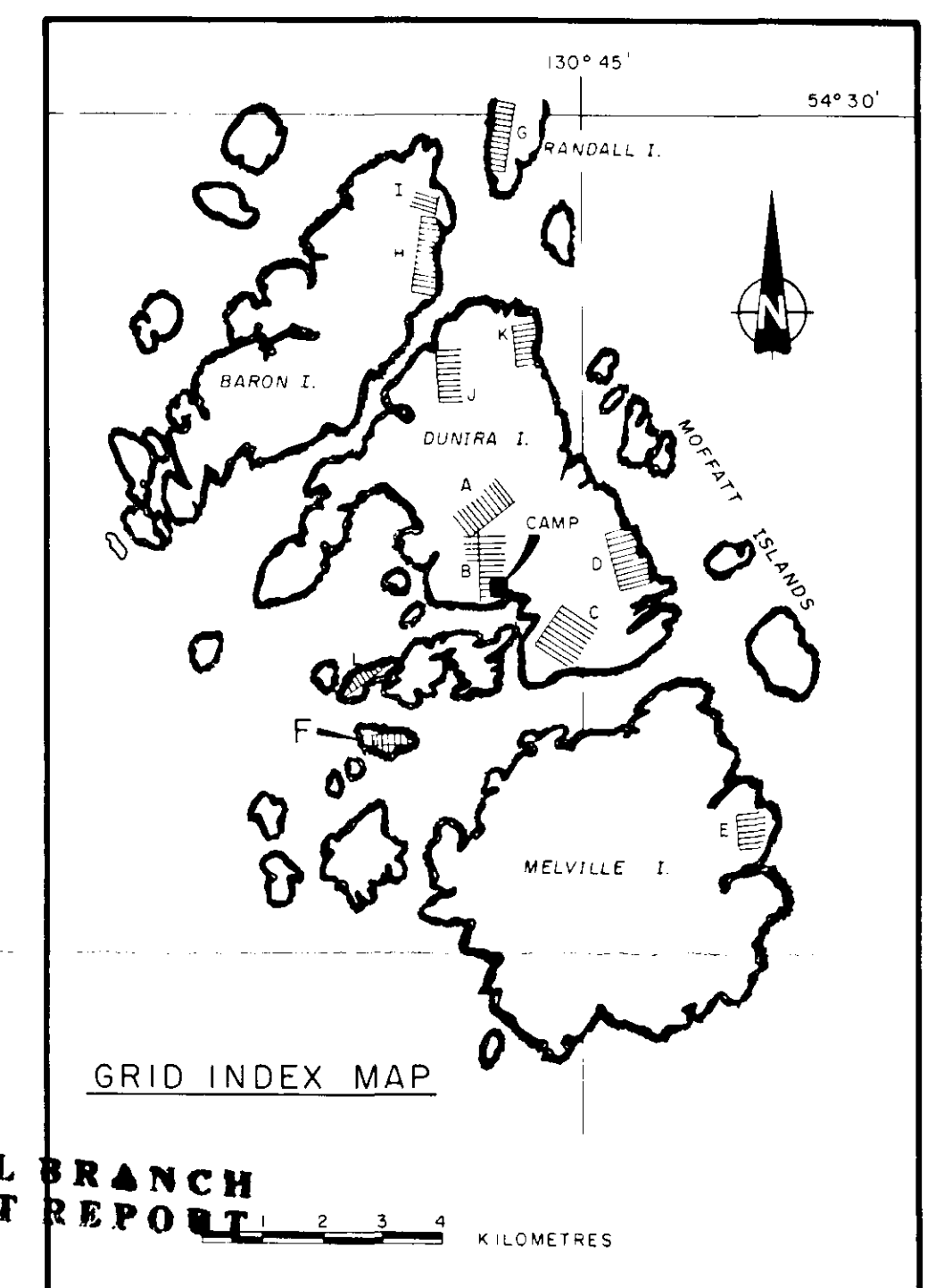
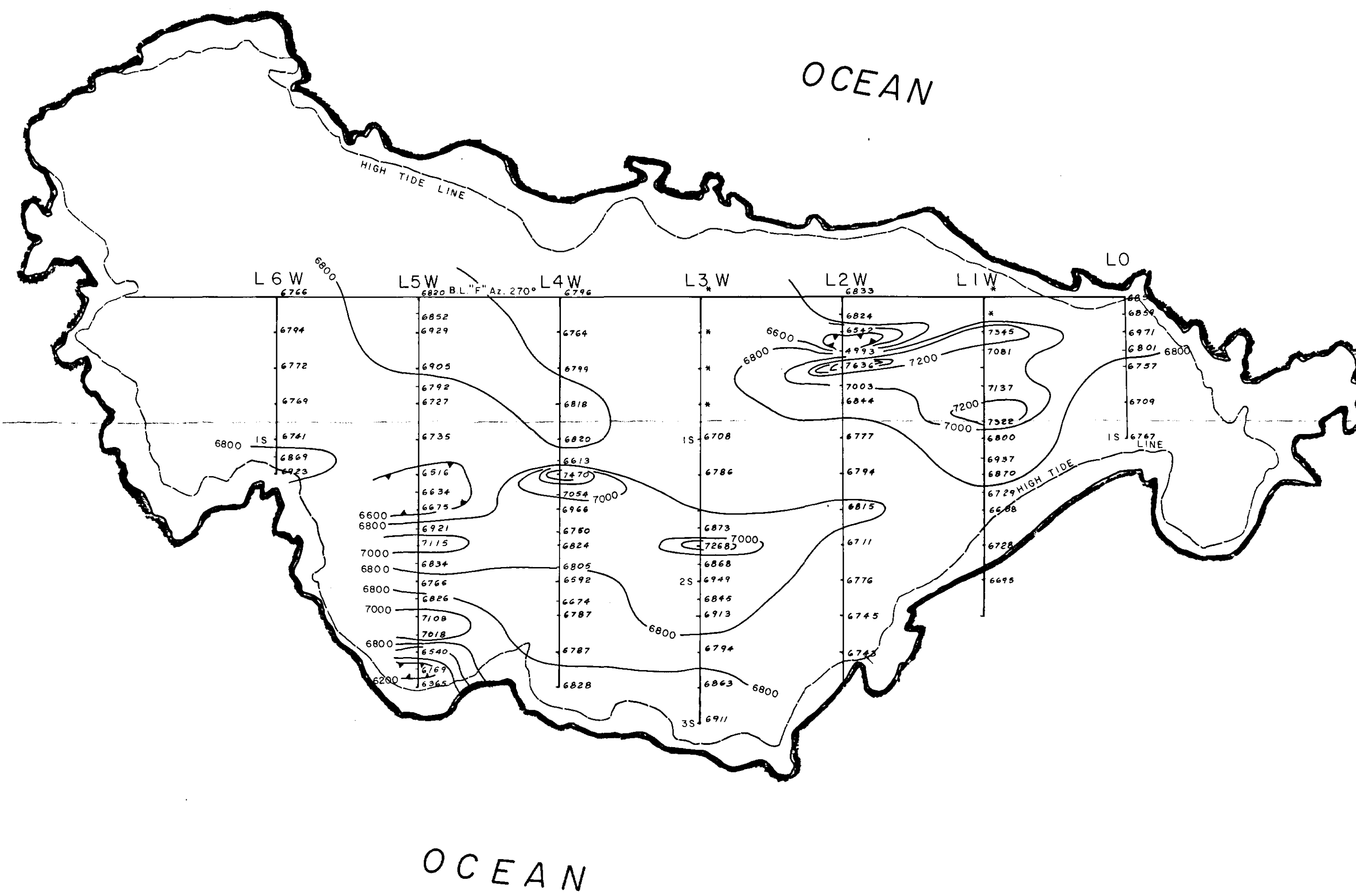
BY: M. CARR / rwr  
 DATE: AUG., 1984

MAP NO. E-2



LEGEND

OPERATOR - E. JONES  
INSTRUMENT : GSM-8 MAGNETOMETER  
CONTOUR INTERVAL = 200 GAMMAS  
NOTE: ADD 50,000 GAMMAS TO ALL VALUES  
\* READINGS OFF SCALE



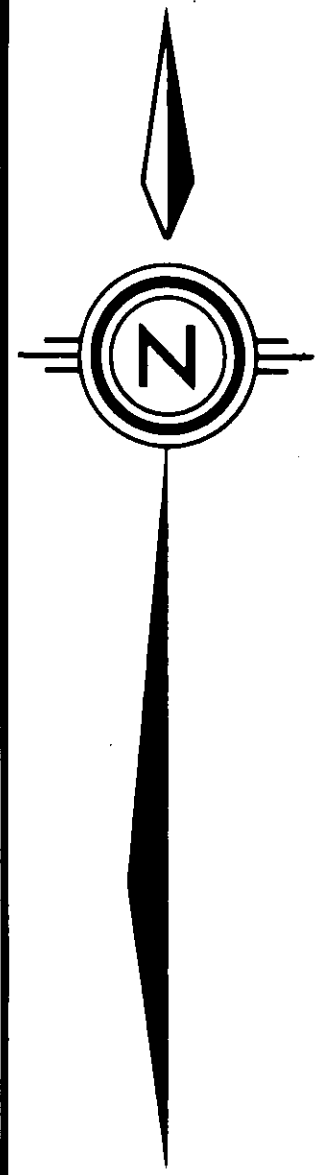
**12,777**  
**part 2**  
**of 2**

**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**

**BILLITON CANADA LTD.**  
COAST COPPER PROJECT  
DUNIRA ISLAND BC. NTS 103-J/7

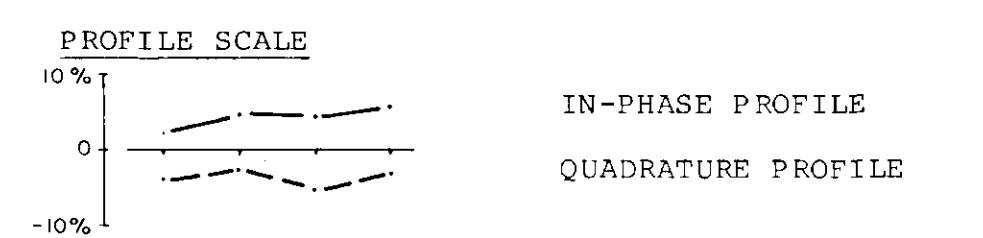
**GRID F**  
PROTON PRECESSION  
MAGNETOMETER SURVEY

50 0 100 200 METRES  
BY M. CARR / r.w.  
DATE AUG., 1984  
MAP NO. F-30

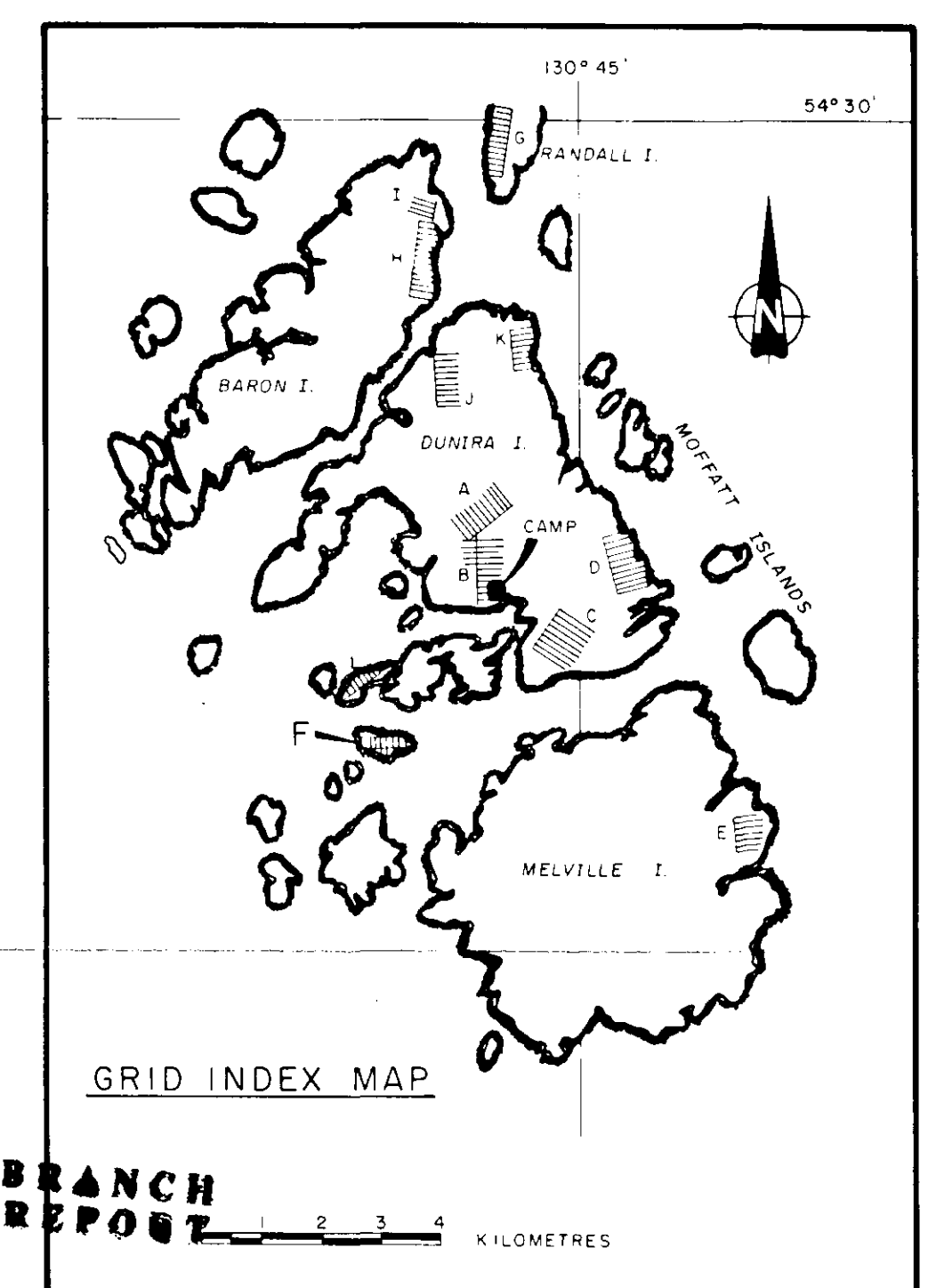
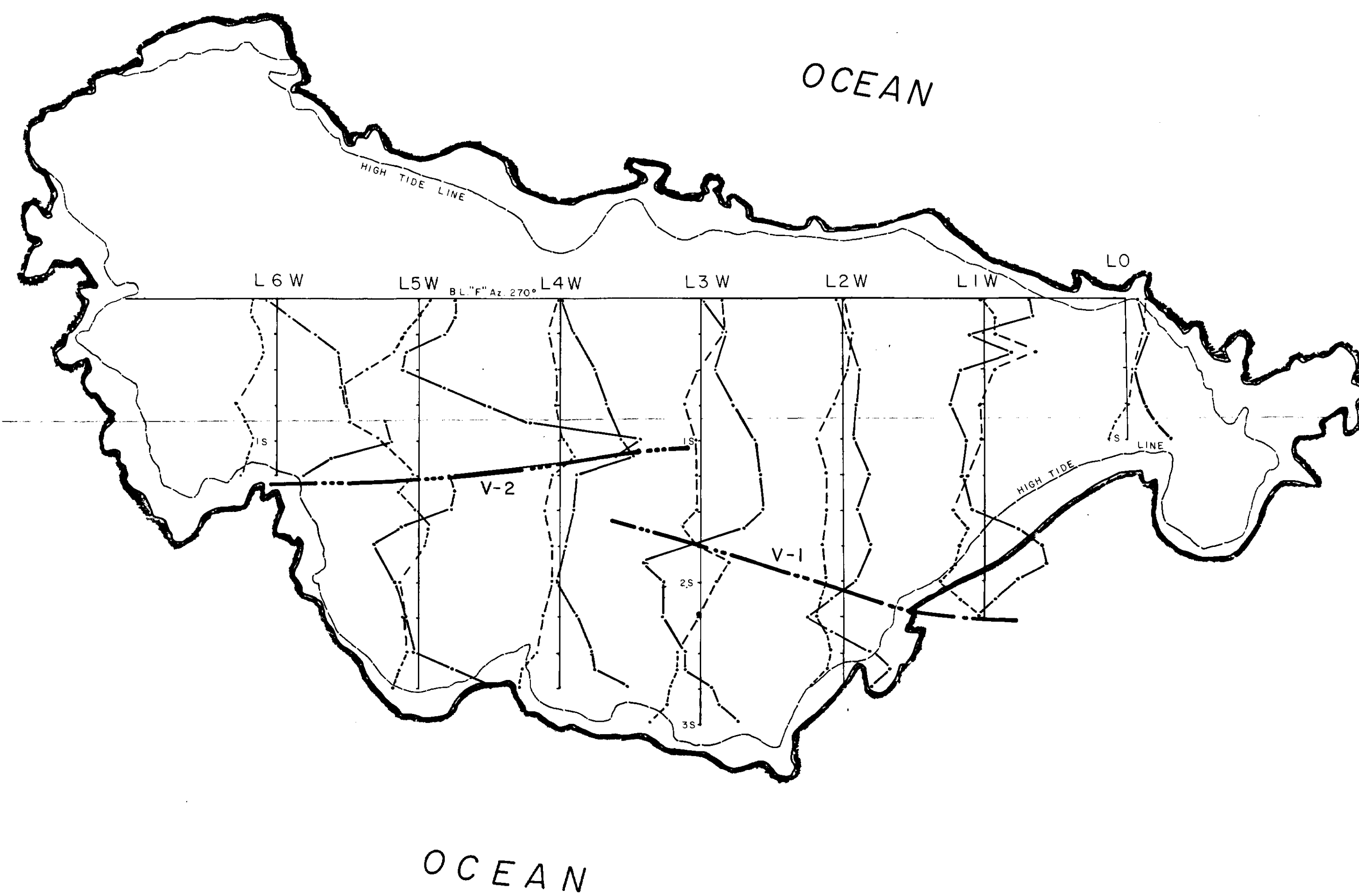


LEGEND:

INSTRUMENT: EM-16  
COIL SEPARATION = 100m  
STATION: CUTLER MAINE  
FACING NORTH



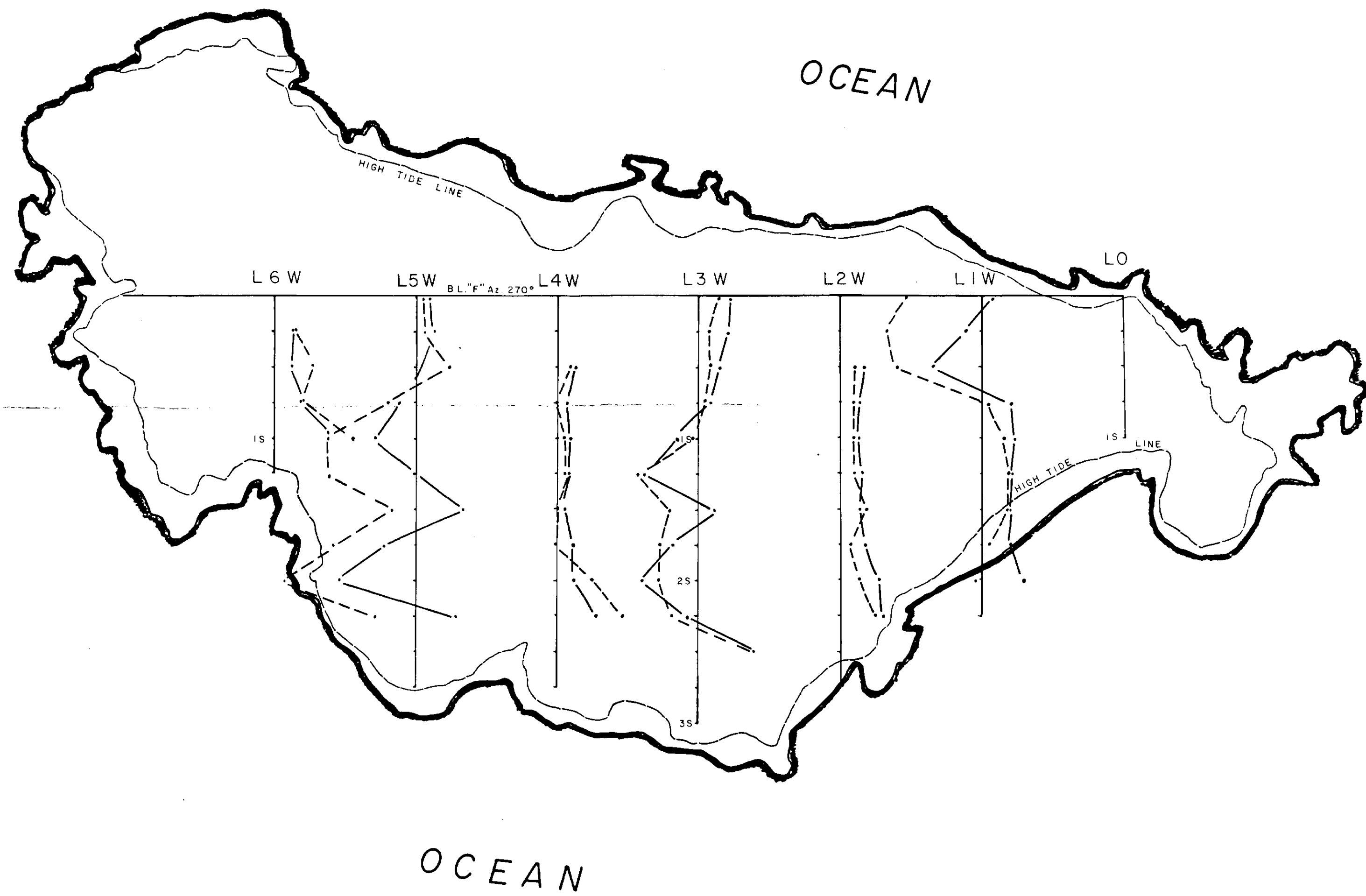
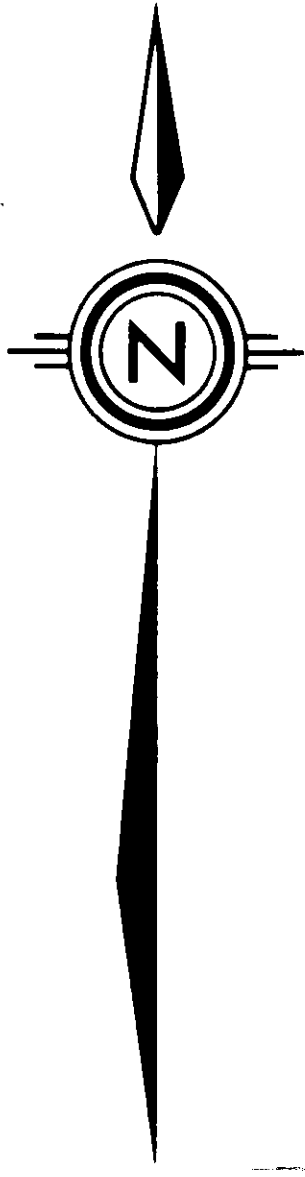
————— MODERATELY STRONG ANOMALY  
- - - - - STRONG ANOMALY



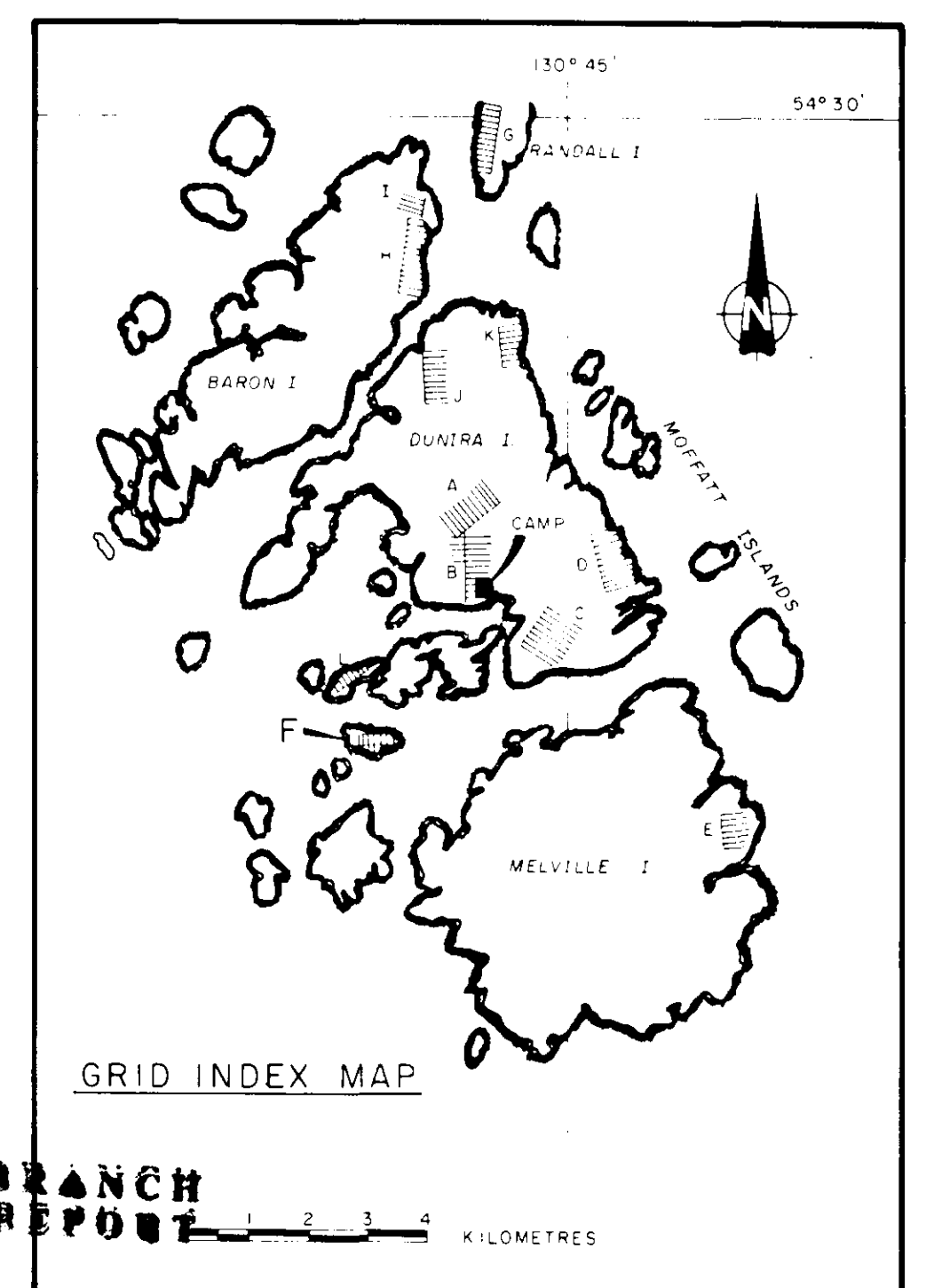
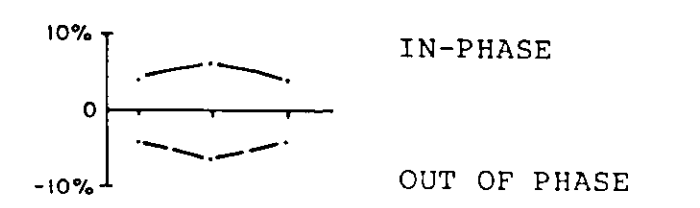
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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Part 2  
of 2

BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND BC. NTS 103-J/7	
GRID <u>F</u>	
VLF-EM SURVEY	
BY: M. CARR / rwr	MAP NO. F-3b
DATE: AUG., 1984	



LEGEND:  
INSTRUMENT: MAX-MIN 2  
COIL SEPARATION = 100 METRES  
CORRECTED FOR TOPOGRAPHY

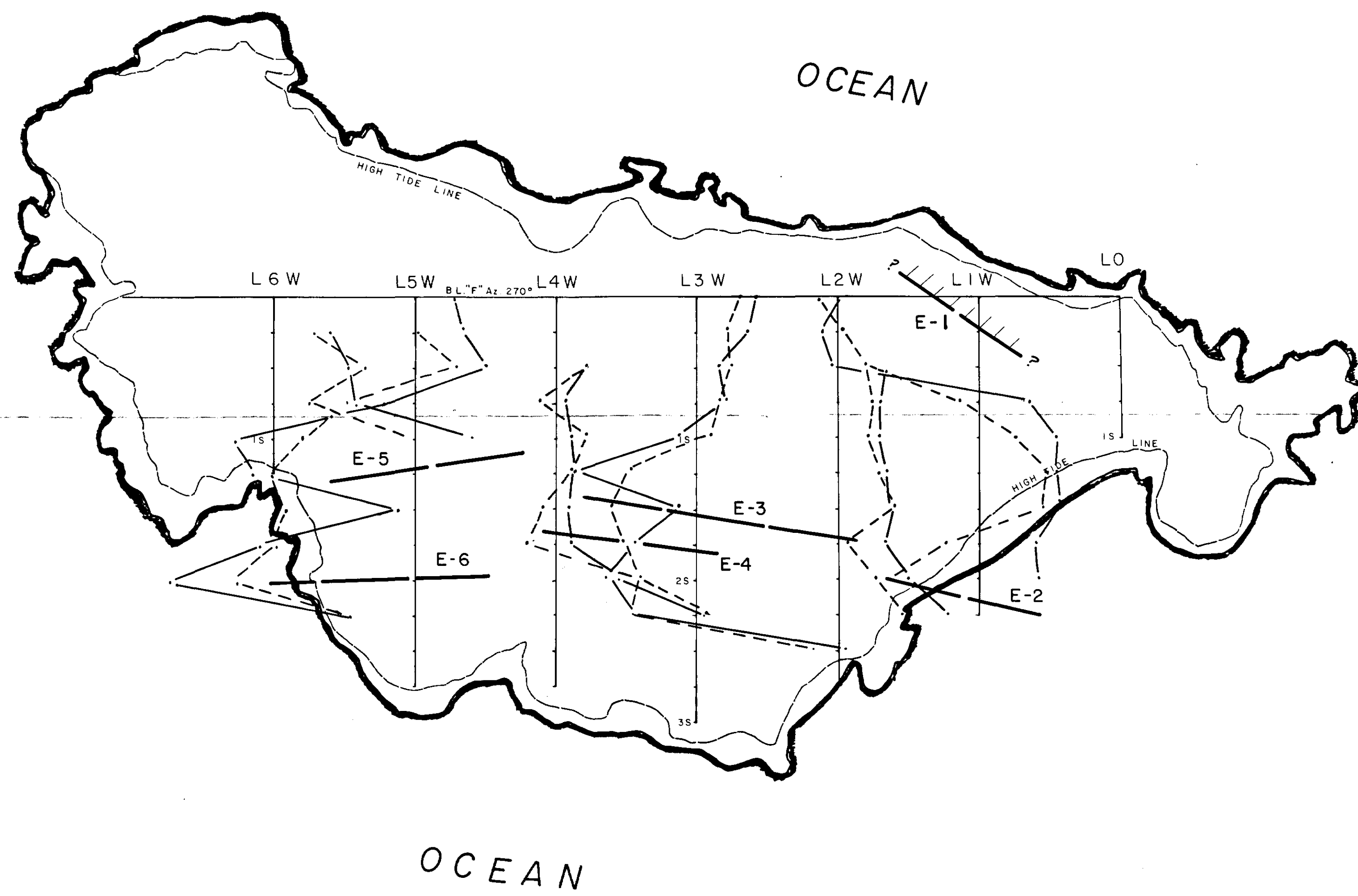
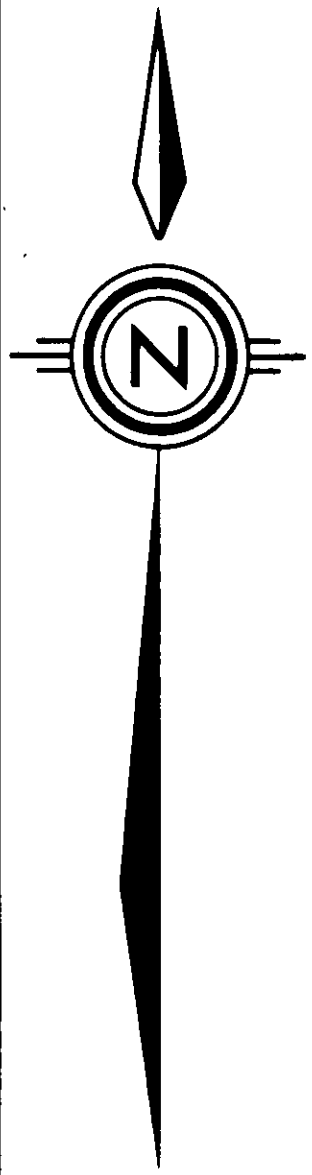


GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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part 2  
of 2

BILLITON CANADA LTD.	
COASTER COPPER PROJECT DUNIRA ISLAND BC. NTS 103-J/7	
GRID E	
HORIZONTAL LOOP EM-SURVEY OF 444 Hz.	
BY: M. CARR / rwr	MAP NO. F-36
DATE: AUG. 1984	



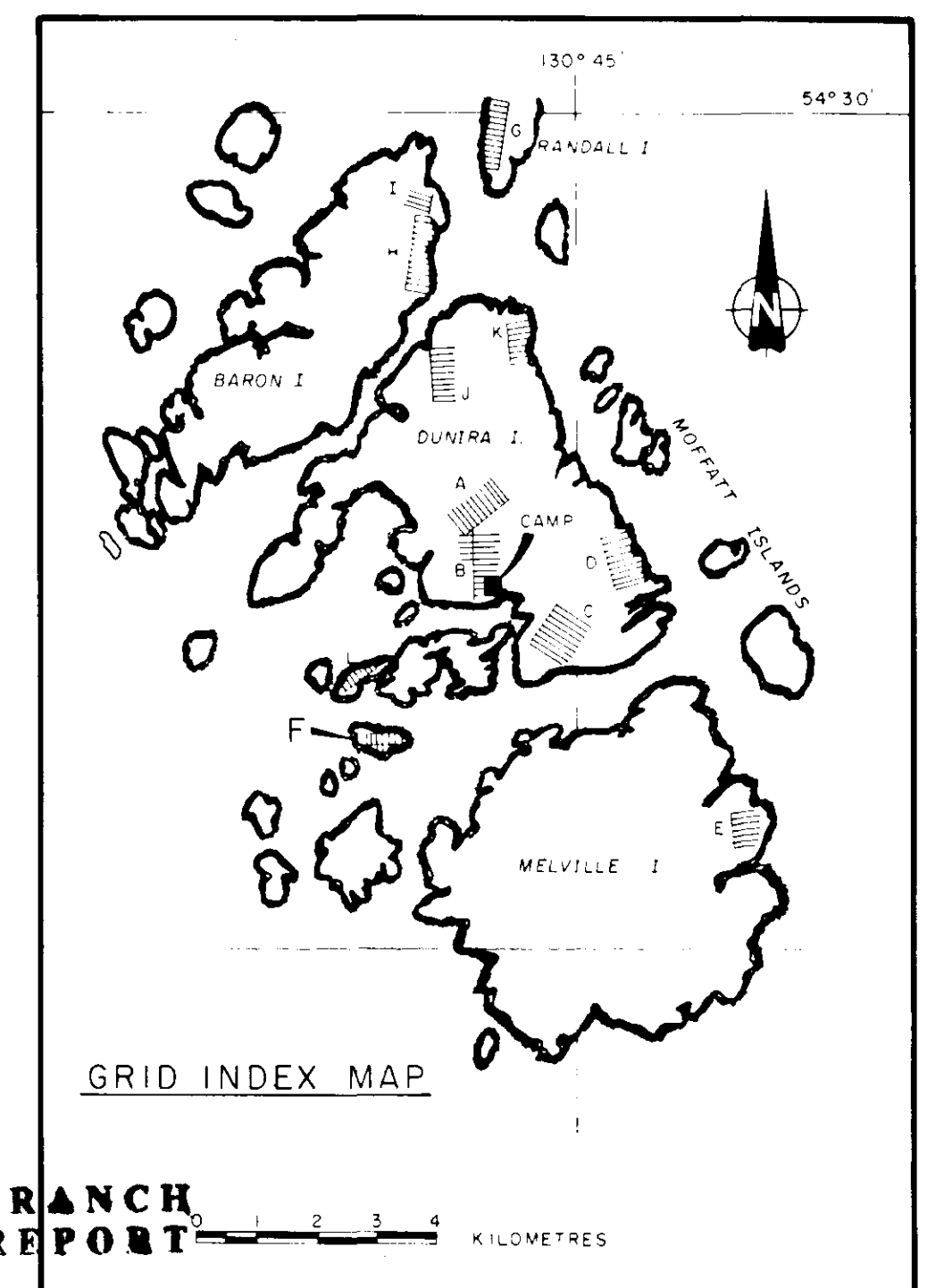


LEGEND:  
INSTRUMENT: MAX-MIN 2  
COIL SEPARATION = 100 METRES  
CORRECTED FOR TOPOGRAPHY

10%  
0  
-10%

IN-PHASE  
OUT OF PHASE

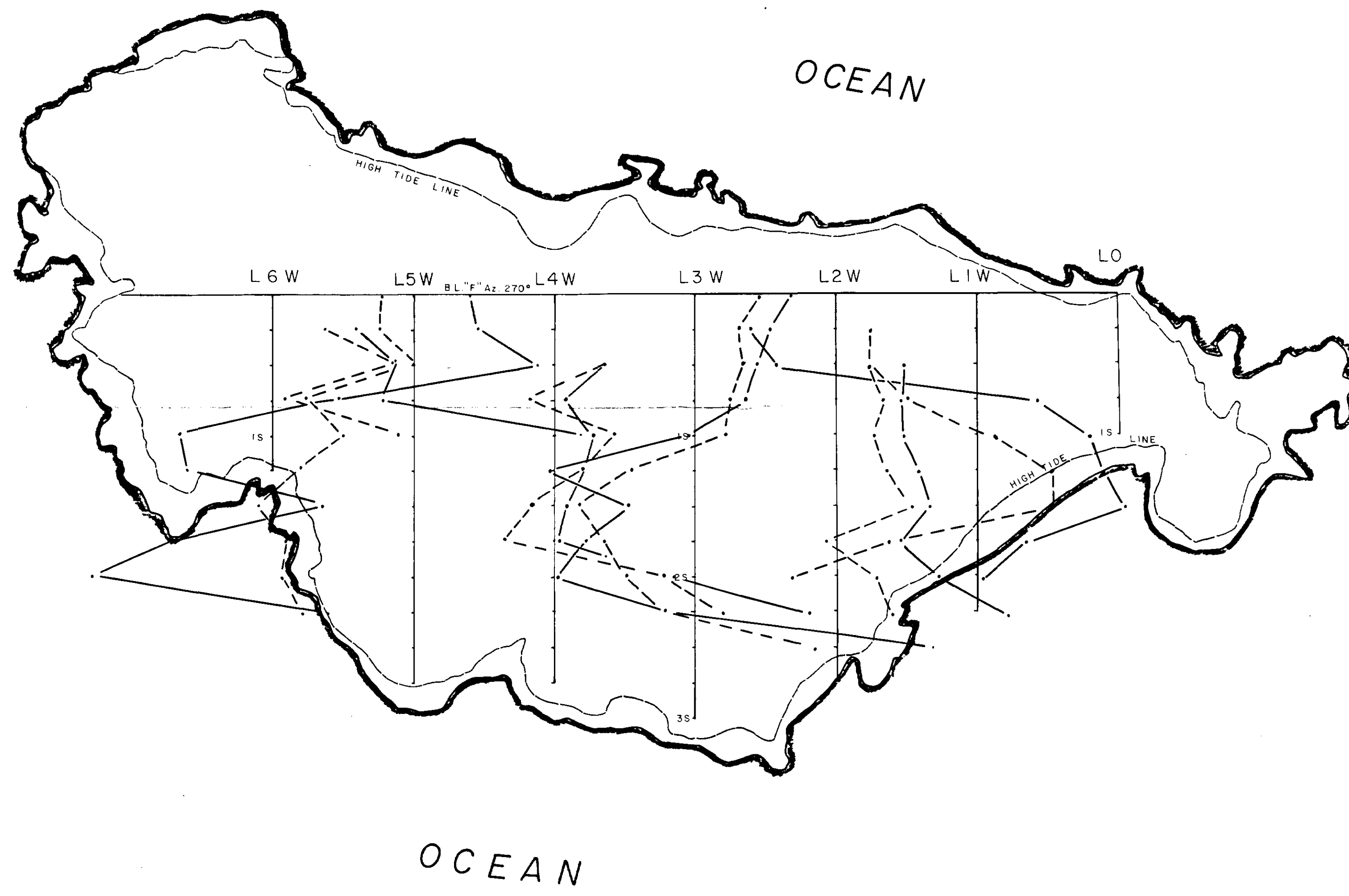
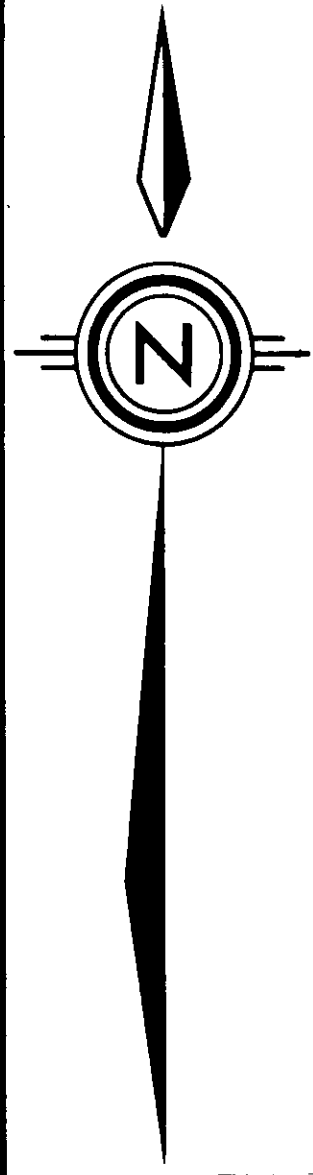
E-1 EM CONDUCTOR



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

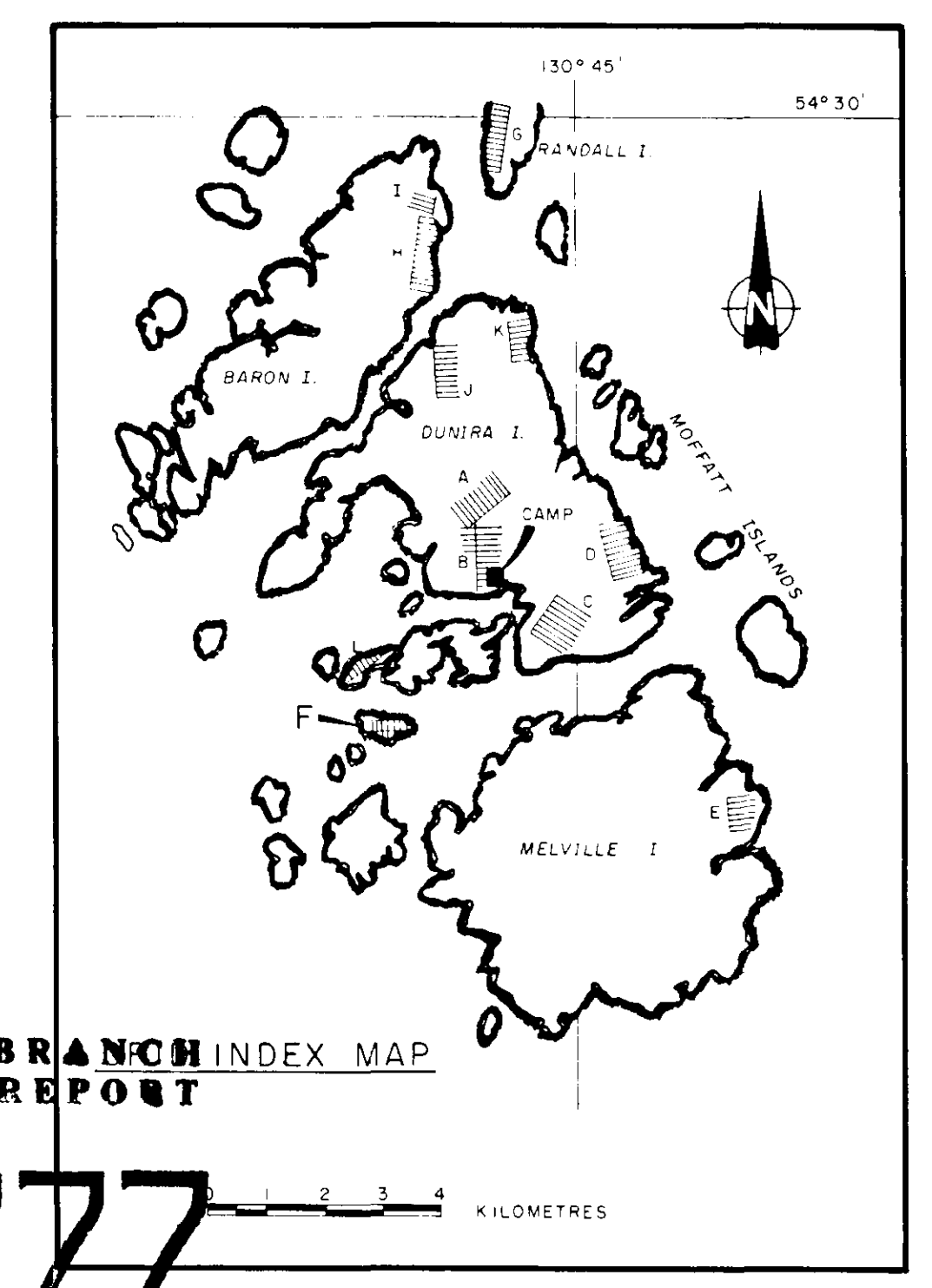
12,777  
part 2  
of 2

BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND BC. NTS 103-J/7	
GRID E	
HORIZONTAL LOOP EM-SURVEY OP 1777 Hz.	
50 0 100 200 METRES	
BY: M. CARR / rwr	MAP NO. E-3d
DATE: AUG., 1984	



LEGEND:  
 INSTRUMENT: MAX-MIN 2  
 COIL SEPARATION = 100 METRES  
 CORRECTED FOR TOPOGRAPHY

10% IN-PHASE  
 0  
 -10% OUT OF PHASE

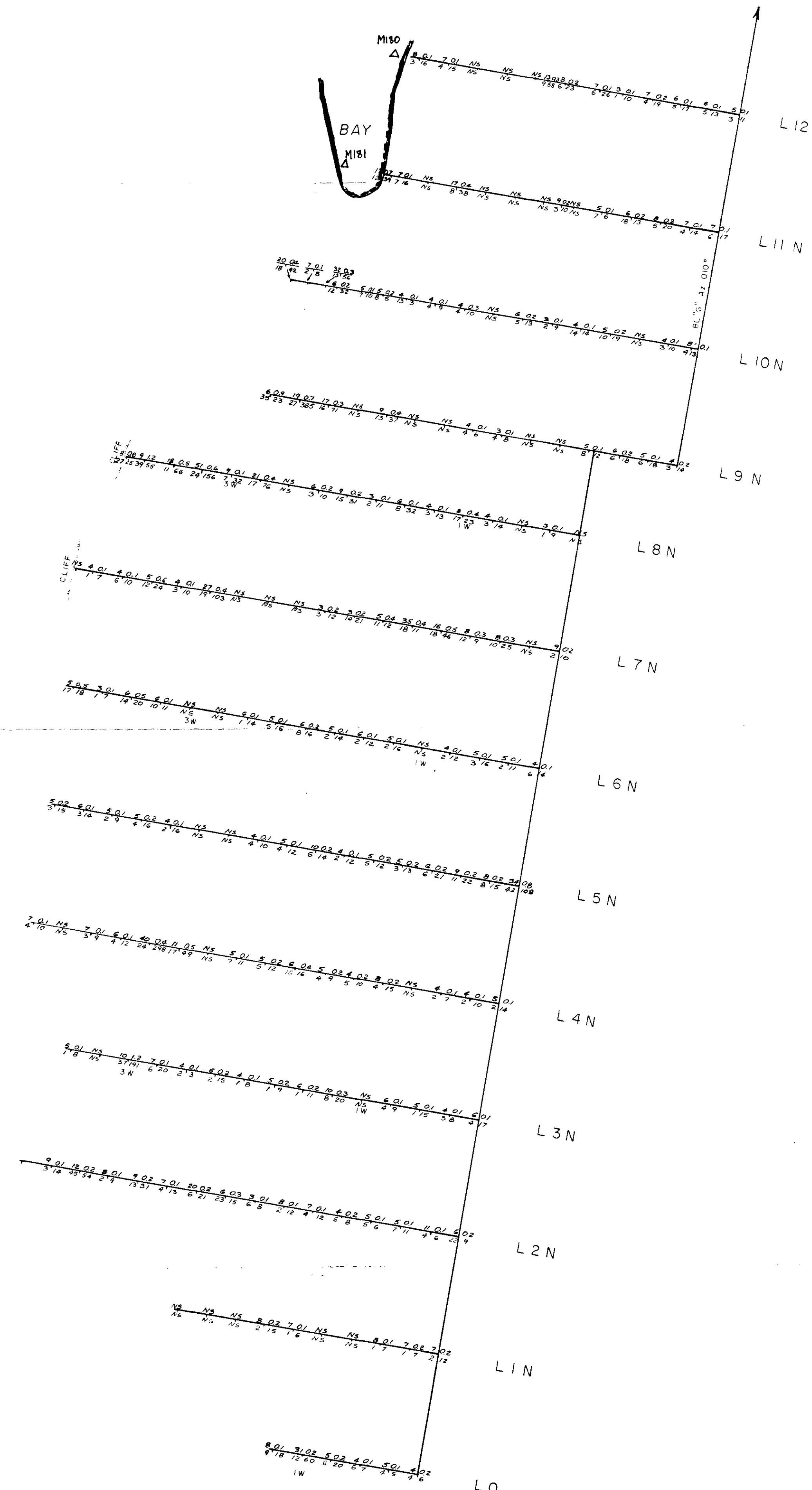
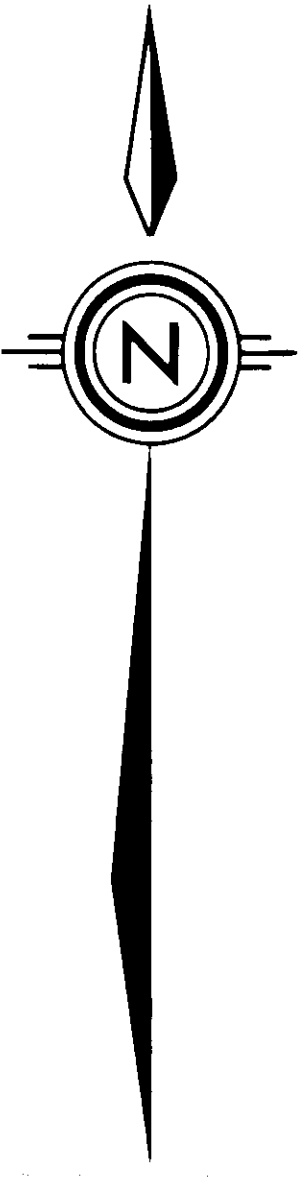


GEOLOGICAL BRANCH INDEX MAP  
 ASSESSMENT REPORT

12,777

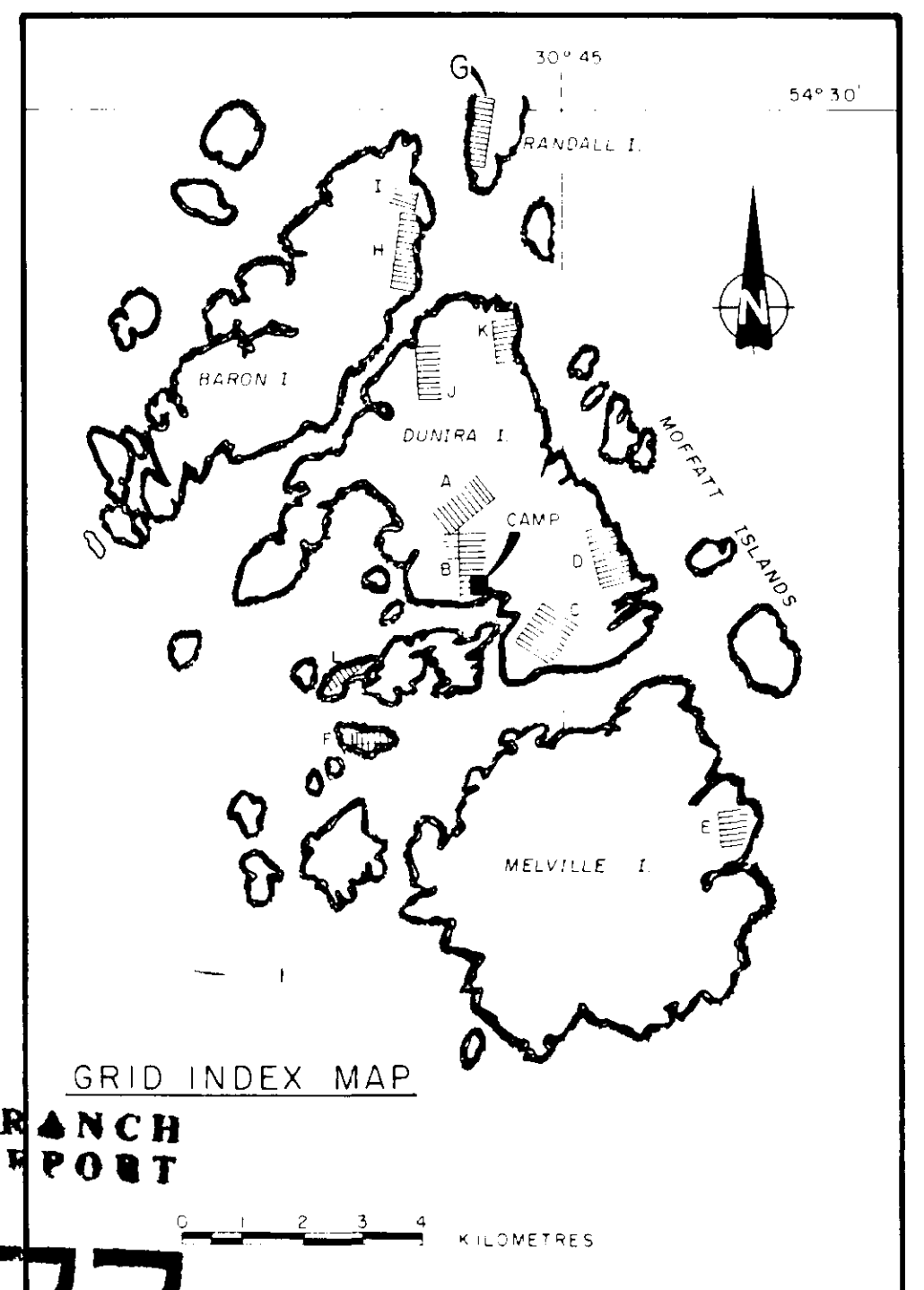
part 2  
 of 2

BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND BC. NTS 103-J/7	
GRID <u>E</u>	
HORIZONTAL LOOP EM-SURVEY OP 3555 Hz.	
50 0 100 200 METRES	
BY: M. CARR / rwr.	MAP NO. <u>F-3e</u>
DATE: AUG., 1984	



LEGEND:  
 4 0.1 Cu Ag VALUES IN P.P.M.  
 12 29 Pb Zn

SAMPLE NUMBER	ROCK GEOCHEMISTRY			
	Cu (ppm)	Pb (ppm)	Ag (ppm)	Zn (ppm)
M180	3	20	7	1.1
M181	15	13	21	0.7



**GEOLOGICAL BRANCH ASSESSMENT REPORT**

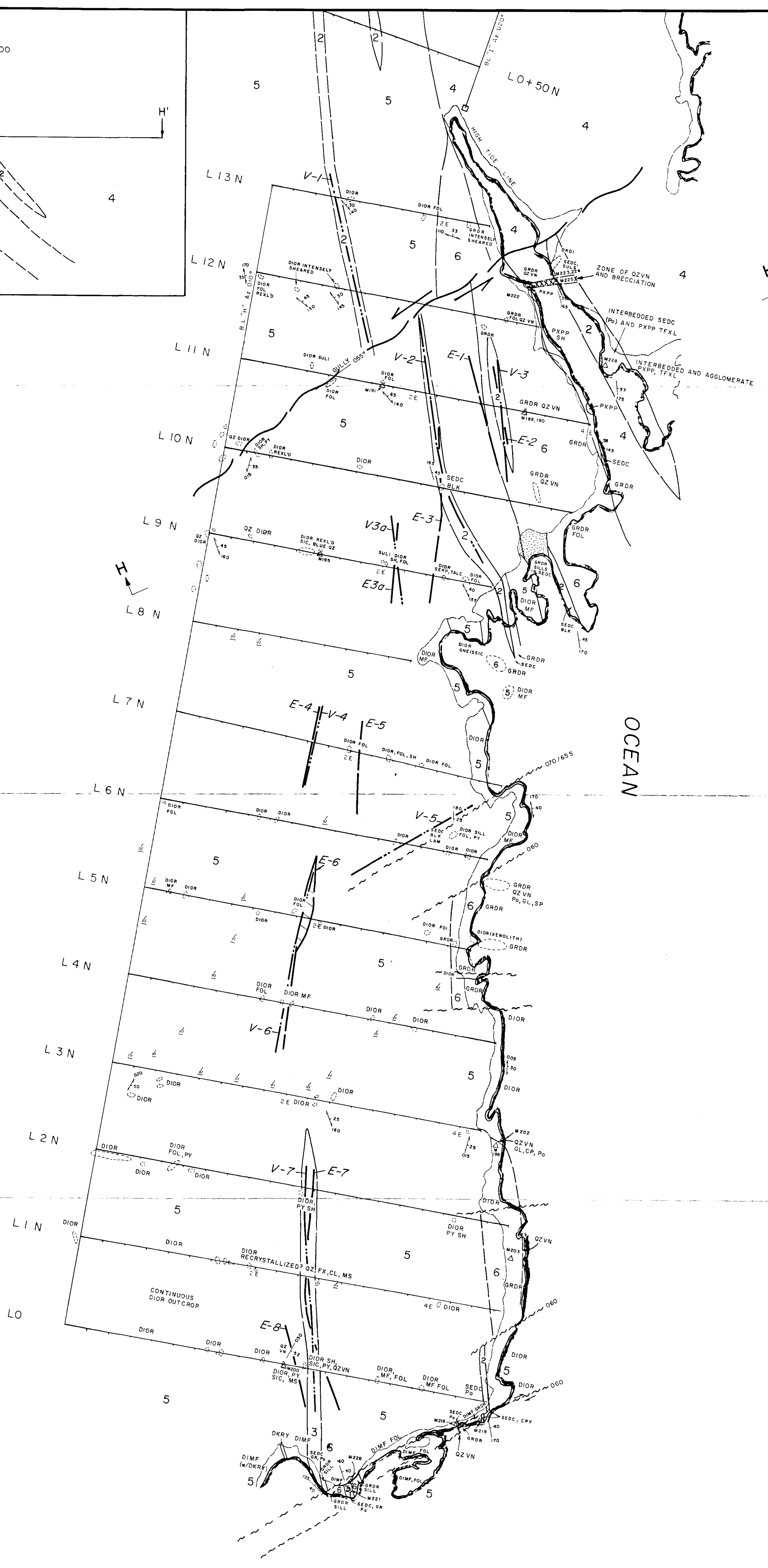
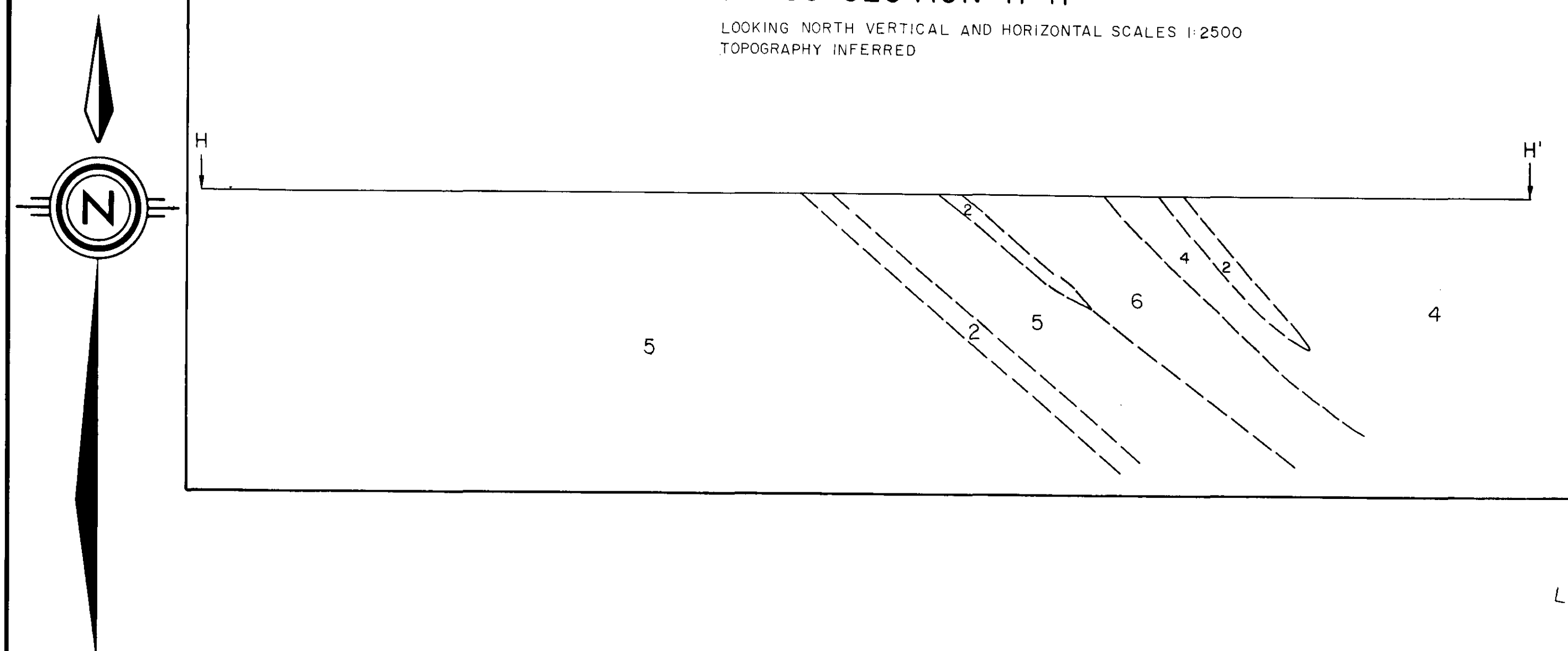
**12,777**  
 part 2  
 OF 2

**BILLITON CANADA LTD.**  
 COAST COPPER PROJECT  
 DUNIRA ISLAND BC. NTS 103-J/7  
**GRID G**  
 SOIL GEOCHEMICAL SURVEY  
 Cu, Ag, Pb & Zn RESULTS

50 100 200 METRES  
 BY M. GARR  
 DATE AUG. 1984  
 MAP NO. G-1

CROSS SECTION H-H'

LOOKING NORTH VERTICAL AND HORIZONTAL SCALES 1:2500  
TOPOGRAPHY INFERRED



LEGEND

- | UNIT | DESCRIPTION   |
|------|---|
| 6    | GRANODIORITE and GRANODIORITE SILLS:<br>Massive sills and locally strongly pyritic<br>Map Symbols - GRDR, DSR   |
| 6A   | HORNFUSED SEDIMENTS of Unit 2, adjacent to sills.<br>Map Symbol - SULL  |
| 5    | DIORITE SILLS, DYKES and PLUTONS:<br>Variable mafic content, foliated<br>Map Symbols - DIOR, DKDI, DIMF, DIOR, QZ DIOR  |
| 4    | MAFIC FLOWS and SILLS:<br>Pyroxene porphyry and biotite porphyry crystal<br>lapilli tuffs and flows, agglomerates and minor<br>pyroxenite sills<br>Map Symbols - PXP, DIPP  |
| 3    | GRAPHITIC SHALES:<br>Slaty, pyritic zones, forms lenses within Unit 2,<br>occasional chert<br>Map Symbols - PHGR, SEDC GR, SHALE  |
| 2    | CHEMICAL and CLASTIC SEDIMENTS:<br>Cherts, pyritic cherts, siltstones, sedimentary<br>and volcanic phyllites, chert pebble conglomerates,<br>volcanogenic sediments, sandstones, siltstones<br>Map Symbols - SEDC, SUGS, SEDM, PHSD, PHVC, SAND, CCLS,<br>SDVC, SST, SILT |
| 1    | FELSIC TUFFS:<br>Rhyolite or andesite crystal tuffs.<br>Map Symbols - TRPH, TRAN, MVT, TDFC, PXP  |

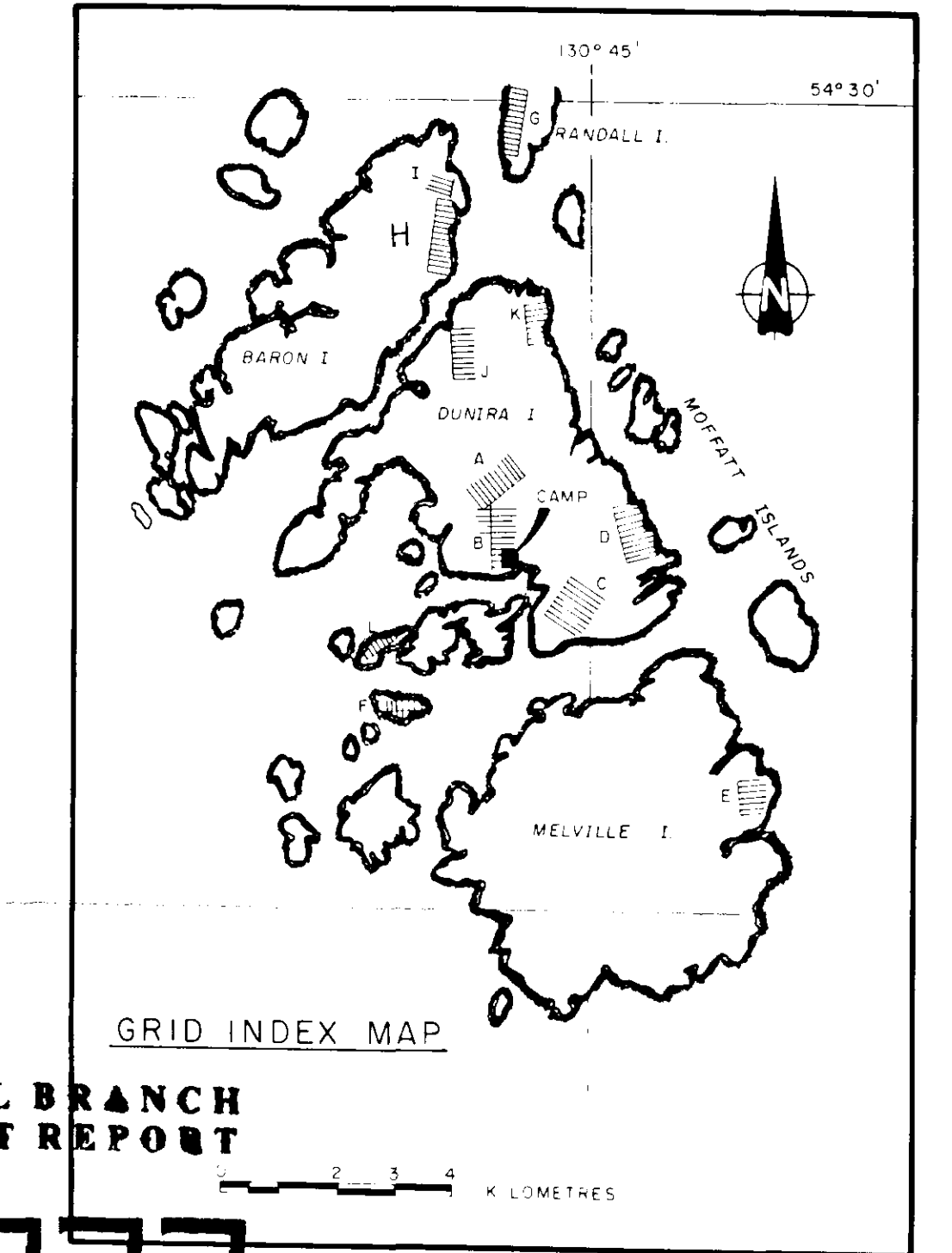
- Geological Contact - observed
- - - Geological Contact - approximate
- - - Geological Contact - assumed
- ~ Fault
- ~ Thrust Fault
- MEM of VLP-EM Conductor - weak [V]
- VLP-EM Conductor - moderate [V]
- VLP-EM Conductor - strong [V]
- ↑ Anticlinal Axis
- ↓ Synclinal Axis
- ↗ Overturned Anticlinal Axis with dip of axial plane and plunge of hinge line
- ↘ Strike and dip of bedding
- ↙ Strike and dip of foliation
- Azimuth and plunge of lineation
- △ ROCK SAMPLE LOCATION
- Approximate shape and position of Mapped Outcrop
- ▨ Alteration Zone

MINERAL ABBREVIATIONS AND NOTATIONS

ALT	alteration	LAM	laminated
BI	biotite	MF	mafic
BLK	black	MS	sericite
BO	bornite	MU	muscovite
BRX	breccia	PO	pyrrhotite
CD	calcite	PP	phenocryst
CL	chlorite	PK	pyroxene
CP	chalcopyrite	PY	pyrite
DC	dacite	QZ	quartz
FOL	foliated	SERP	serpentine
GL	gelsene	SH	shaded
GR	graphite	SIC	silicified
GS	grey sulphide	SIP	silicified
GY	grey	SP	sphalerite
HB	hornblende	VA	vein
KA	kaolinite		

ROCK GEOCHEMISTRY

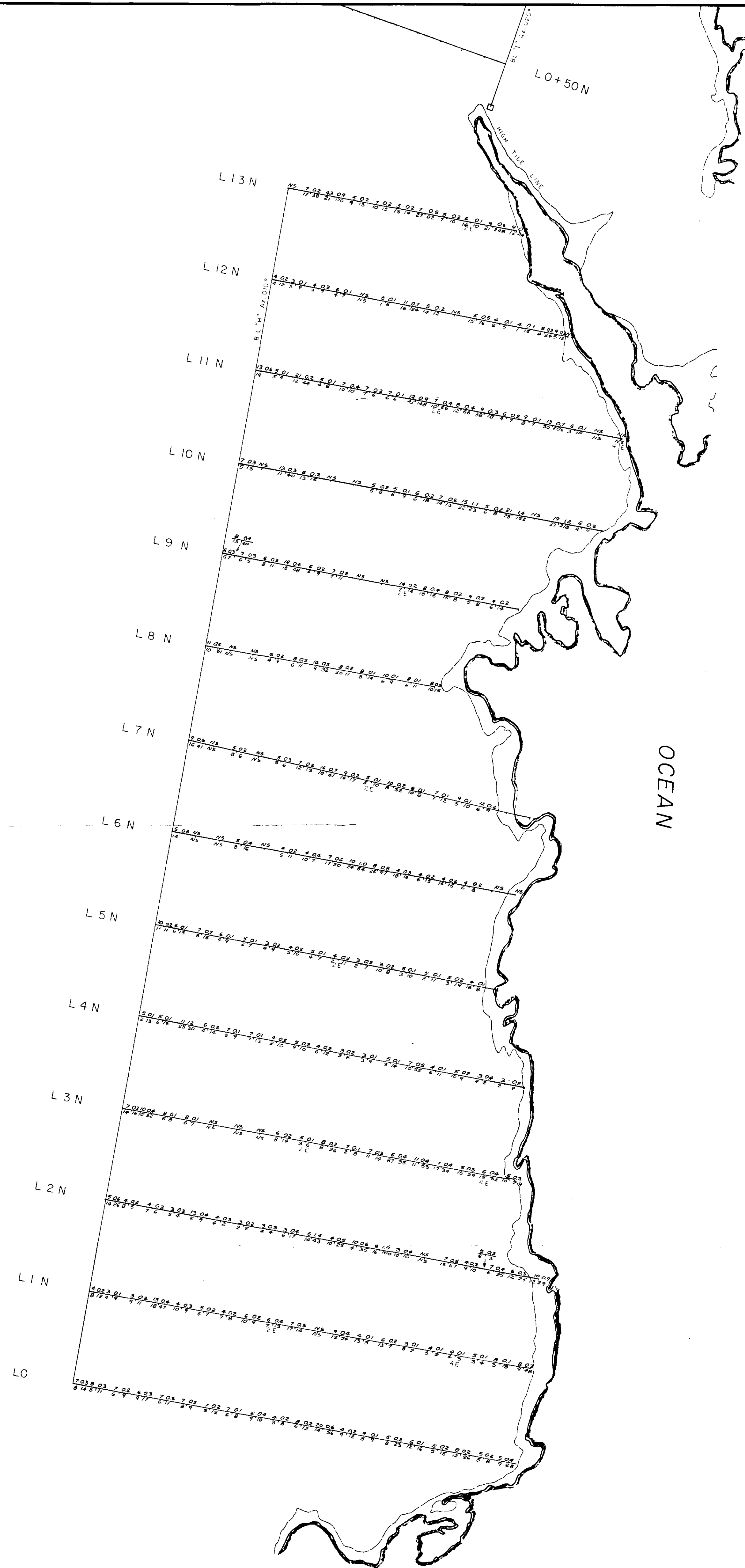
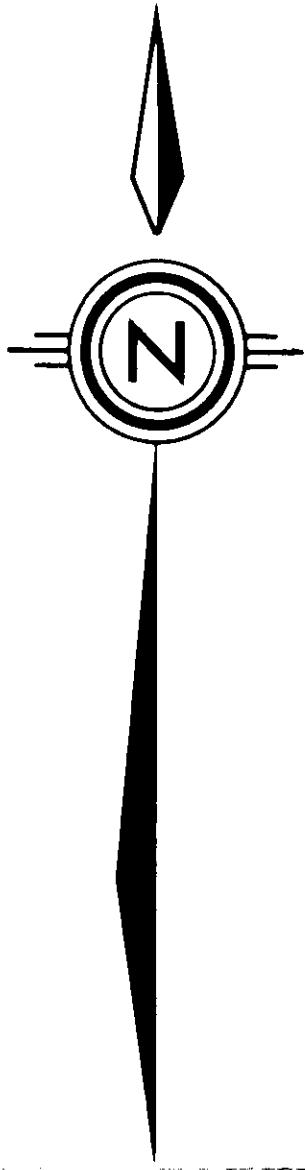
SAMPLE NUMBER	Cu (ppm)	Zn (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Au (ppb)	Hg (ppb)
M189	4	14	200	0.7			80
M190	8	9	21	0.5			
M191	24	7	45	0.5			
M195	41	68	229	1.1			
M198	0.0068	1.274	0.458	87.8			120
M200	44	12	70	0.9			
M202	1310	15500	1240	73.0			
M203	18	265	101	1.6	26000	3	235
M218	158	10	21	1.1			
M219	149	68	312	1.7			
M220	6	10	710	0.2			5
M221	131	30	445	2.6			
M222	18	10	62	0.3	10	1	5
M223	63	10	728	0.5			
M224	120	9	25	0.4			
M225	51	13	53	0.2	2	11	5



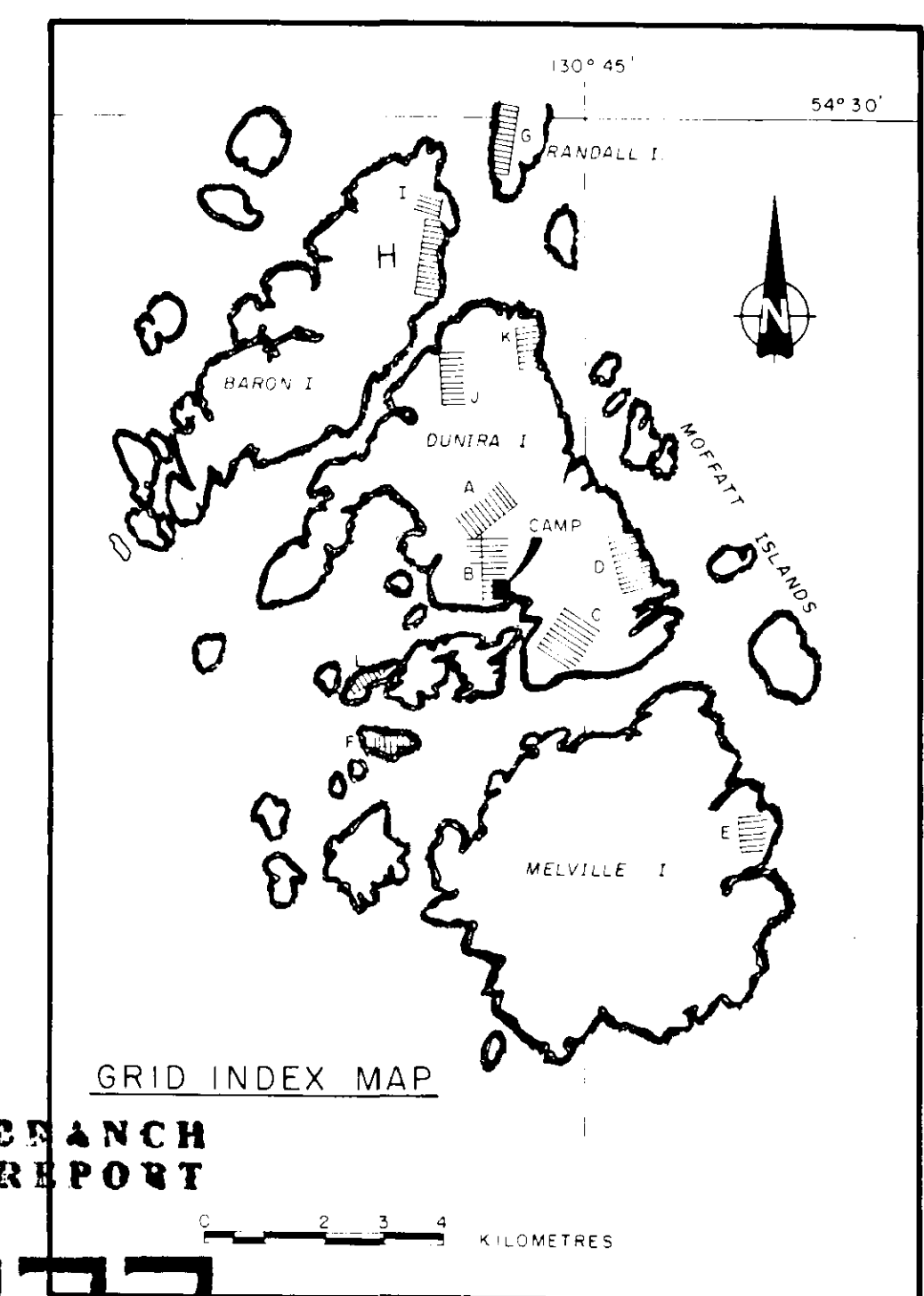
GEOLOGICAL BRANCH ASSESSMENT REPORT

12,777  
part 2  
of 2

BILLITON CANADA LTD.  
COAST COPPER PROJECT  
DUNIRA ISLAND BC. NTS 103-J/7  
GRID H  
GEOLOGY MAP  
50 0 100 200 METRES  
BY M CARR /rwr  
DATE AUG. 1984  
MAP NO. H-1

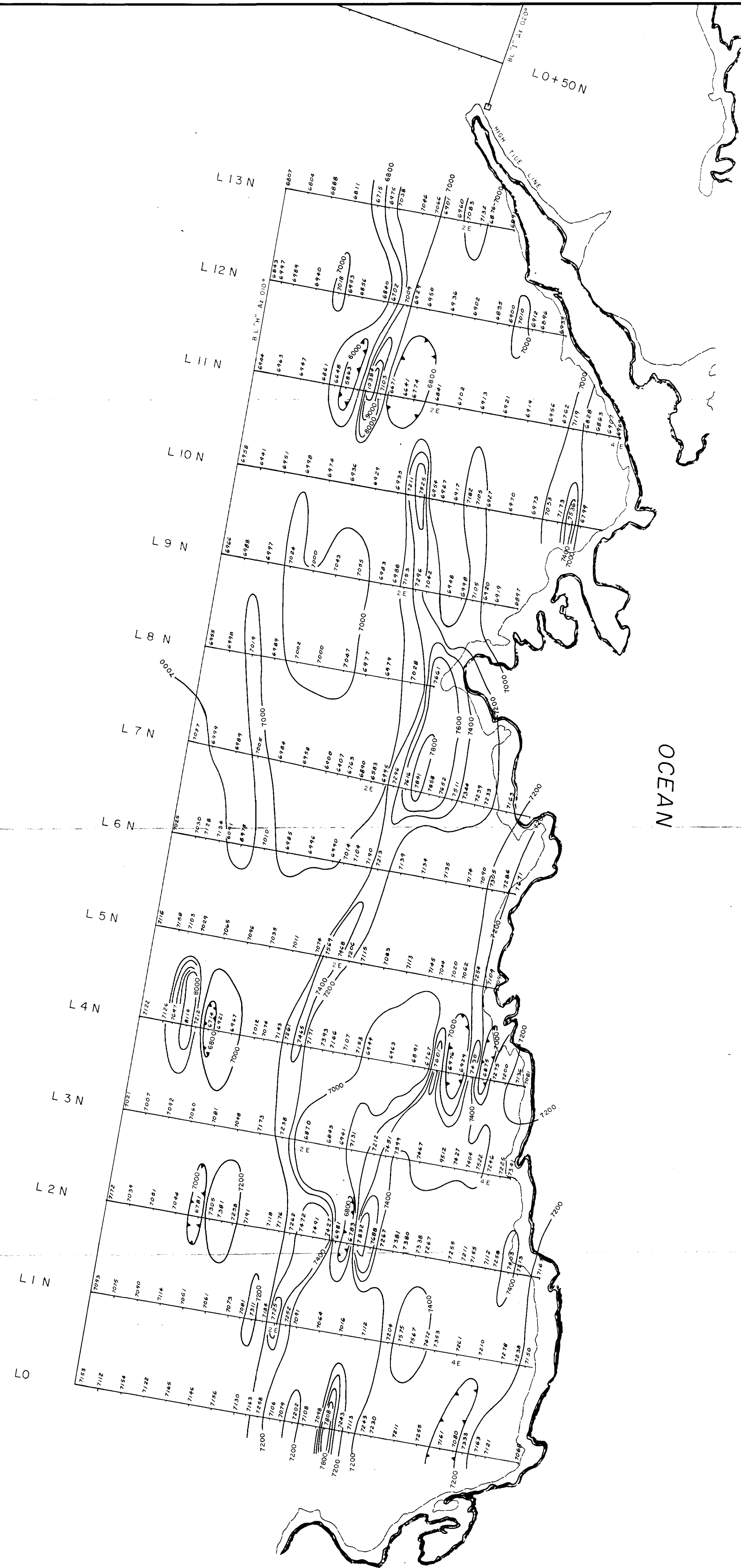
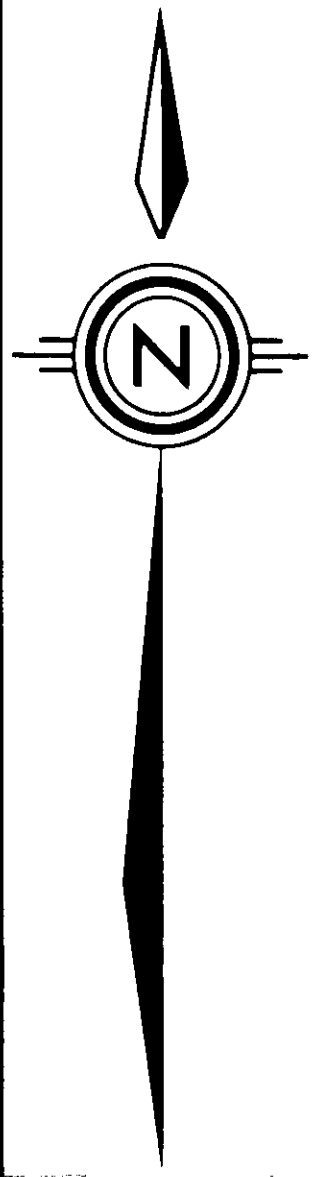


LEGEND:  
 4 0.1 Cu Ag VALUES IN P.P.M.  
 12 29 Pb Zn  
 NS = NO SAMPLE TAKEN.

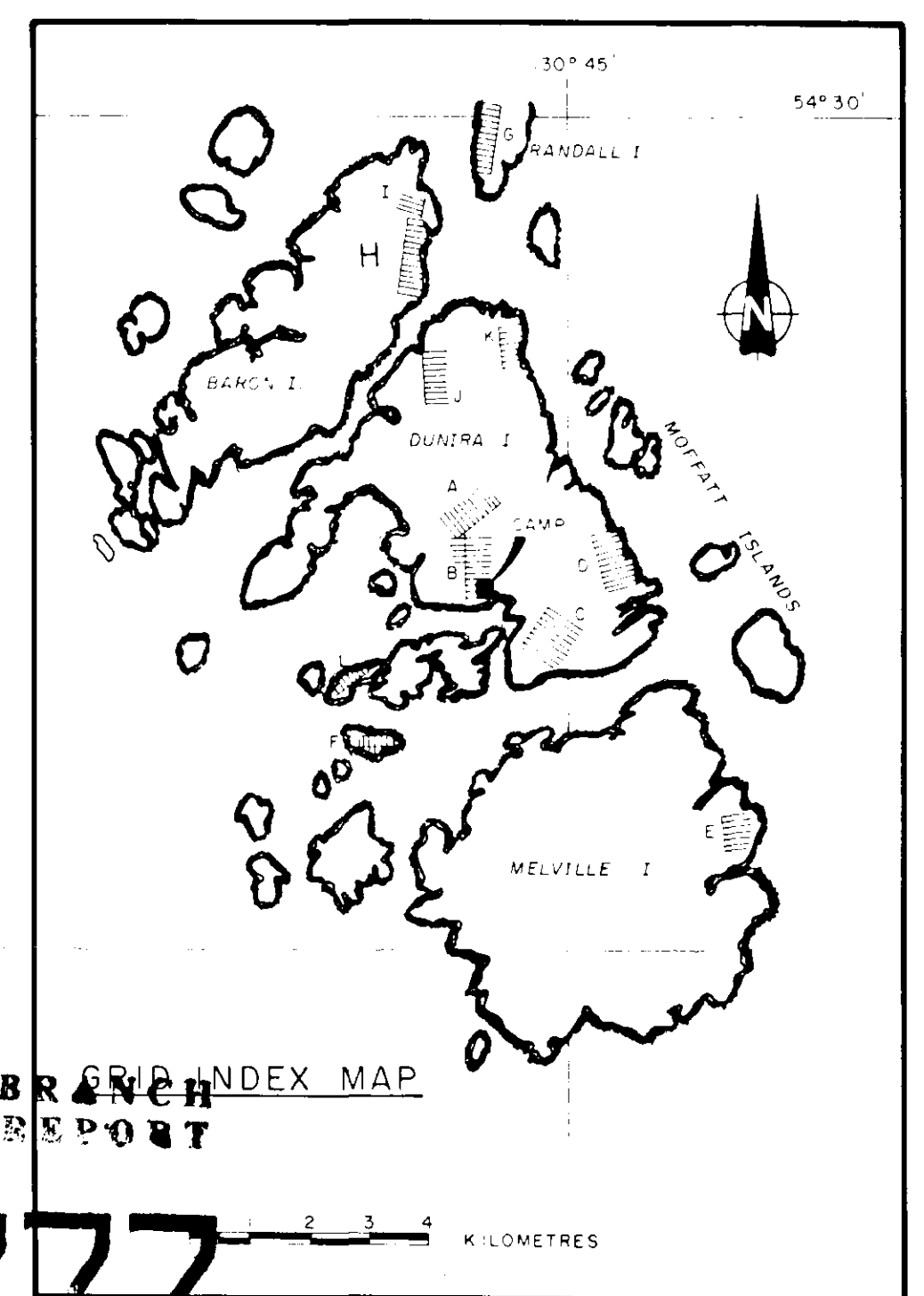


GEOLOGICAL BRANCH  
 ASSESSMENT REPORT  
 12,777  
 part 2  
 of 2

BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND BC. NTS 103-J/7	
GRID <u>H</u>	
SOIL GEOCHEMICAL SURVEY Cu, Ag, Pb & Zn RESULTS	
50 0 100 200 METRES	
BY: M CARR/rwr	MAP NO. H-2
DATE: AUG, 1984	



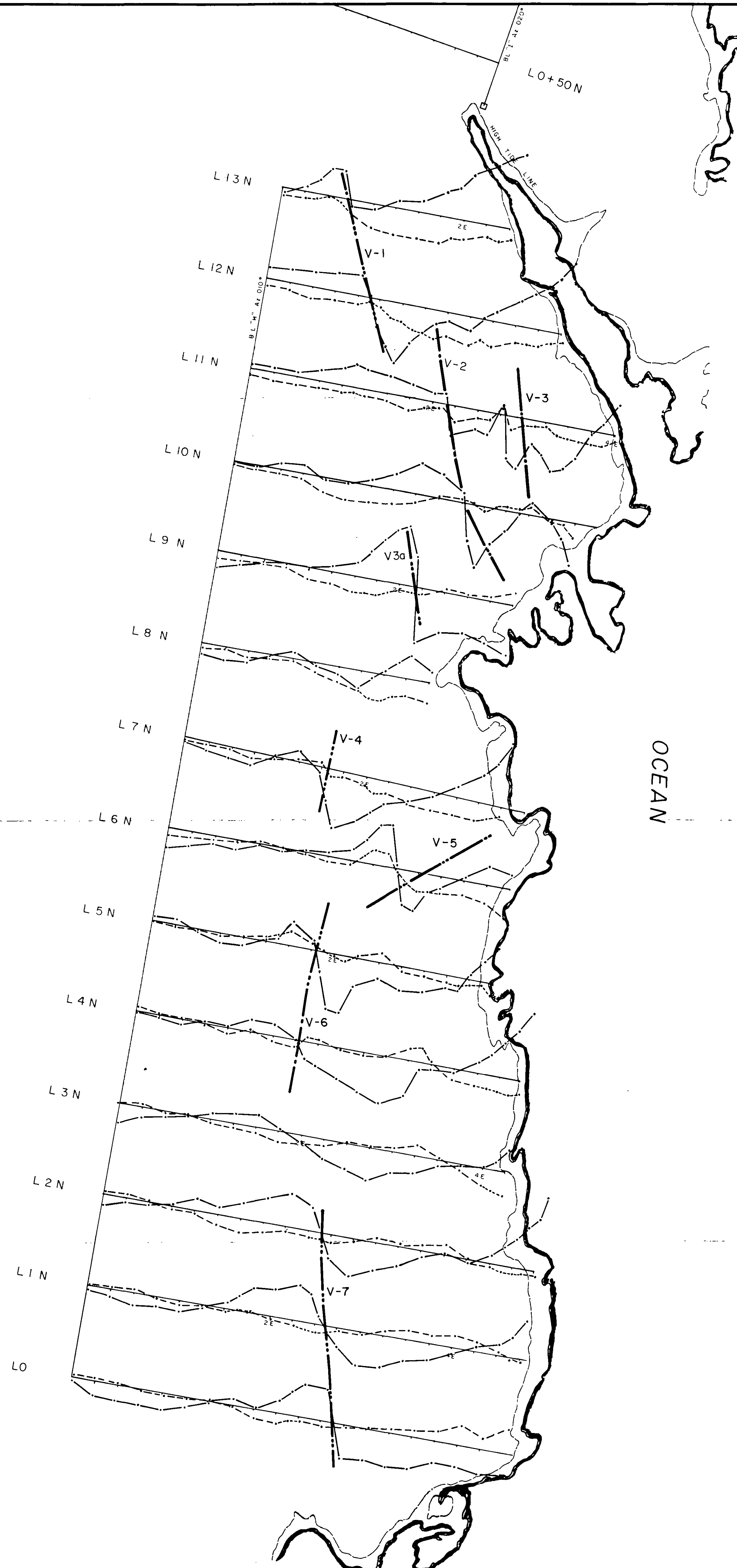
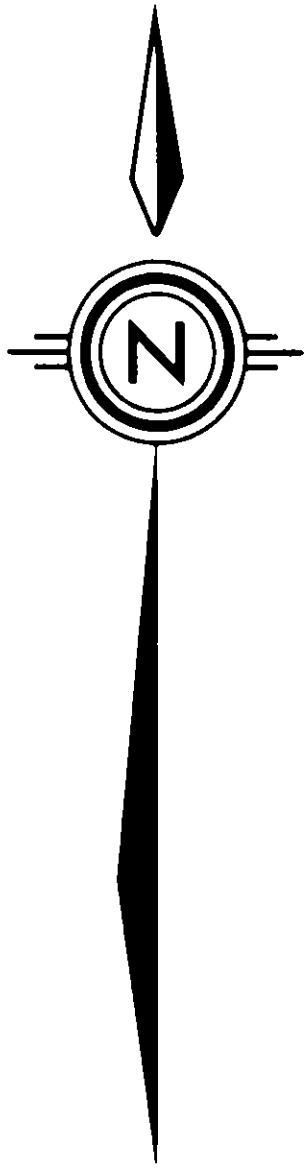
LEGEND:  
 OPERATOR J MONGER  
 INSTRUMENT : GSM-8 MAGNETOMETER  
 CONTOUR INTERVAL = 200 GAMMAS  
 NOTE: ADD 50,000 GAMMAS TO ALL VALUES



GEOLOGICAL BRANCH  
 INDEX MAP  
 ASSESSMENT REPORT

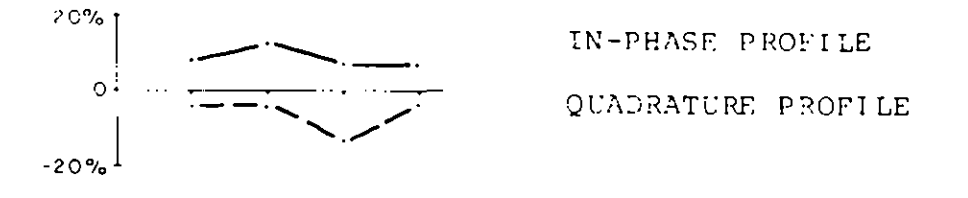
**12,777**  
 Part 2  
 of 2

BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND BC. NTS 103-J/7	
GRID <u>H</u>	
PROTON PRECESSION MAGNETOMETER SURVEY	
50 0 100 200 METRES	
BY M CARR /rwr	MAP NO. H-3a
DATE AUG, 1984	

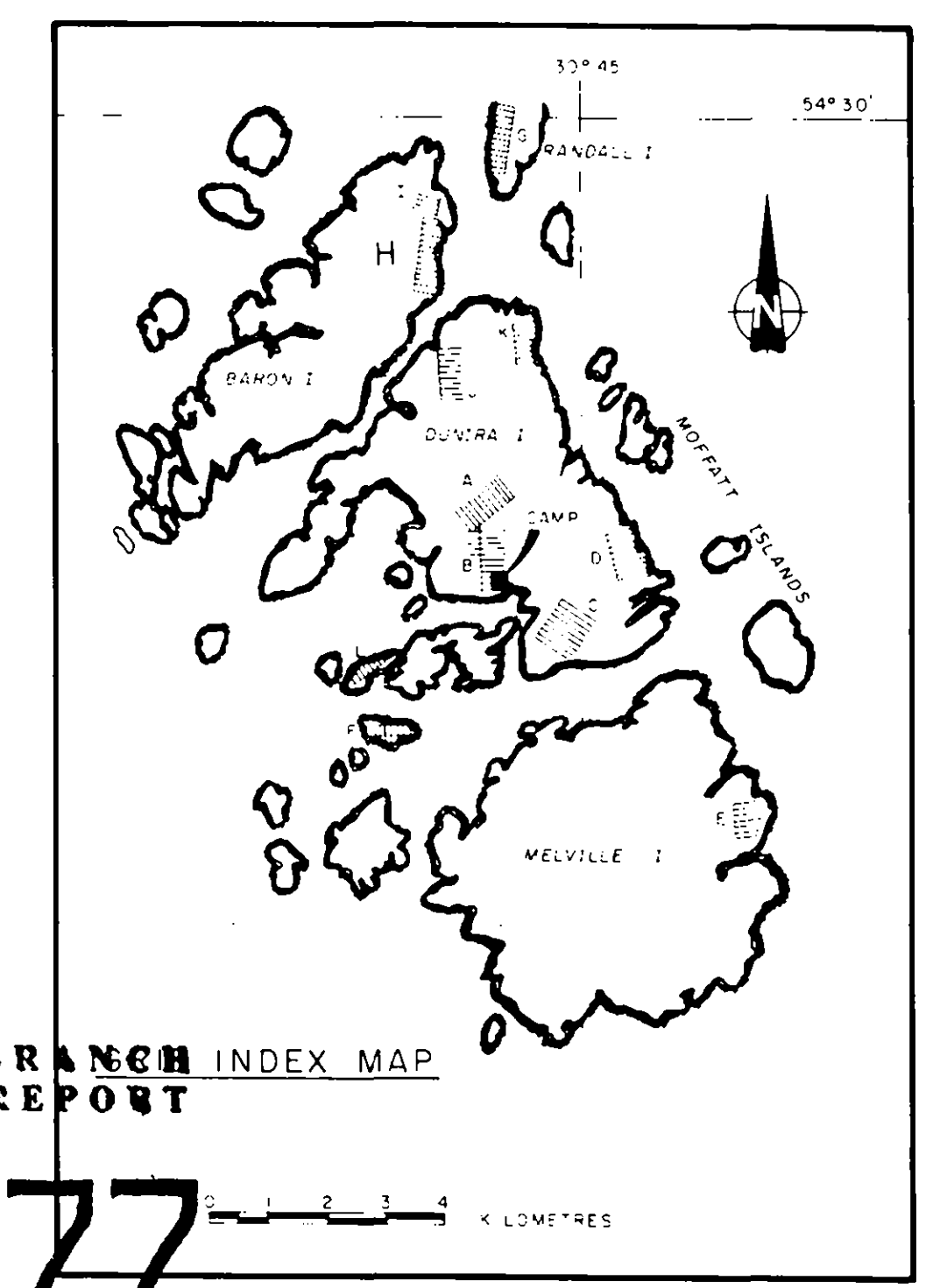


LEGEND:

INSTRUMENT: EM-16  
COIL SEPARATION = 100m  
STATION: NLK SEATTLE  
FACING EAST  
PROFILE SCALE



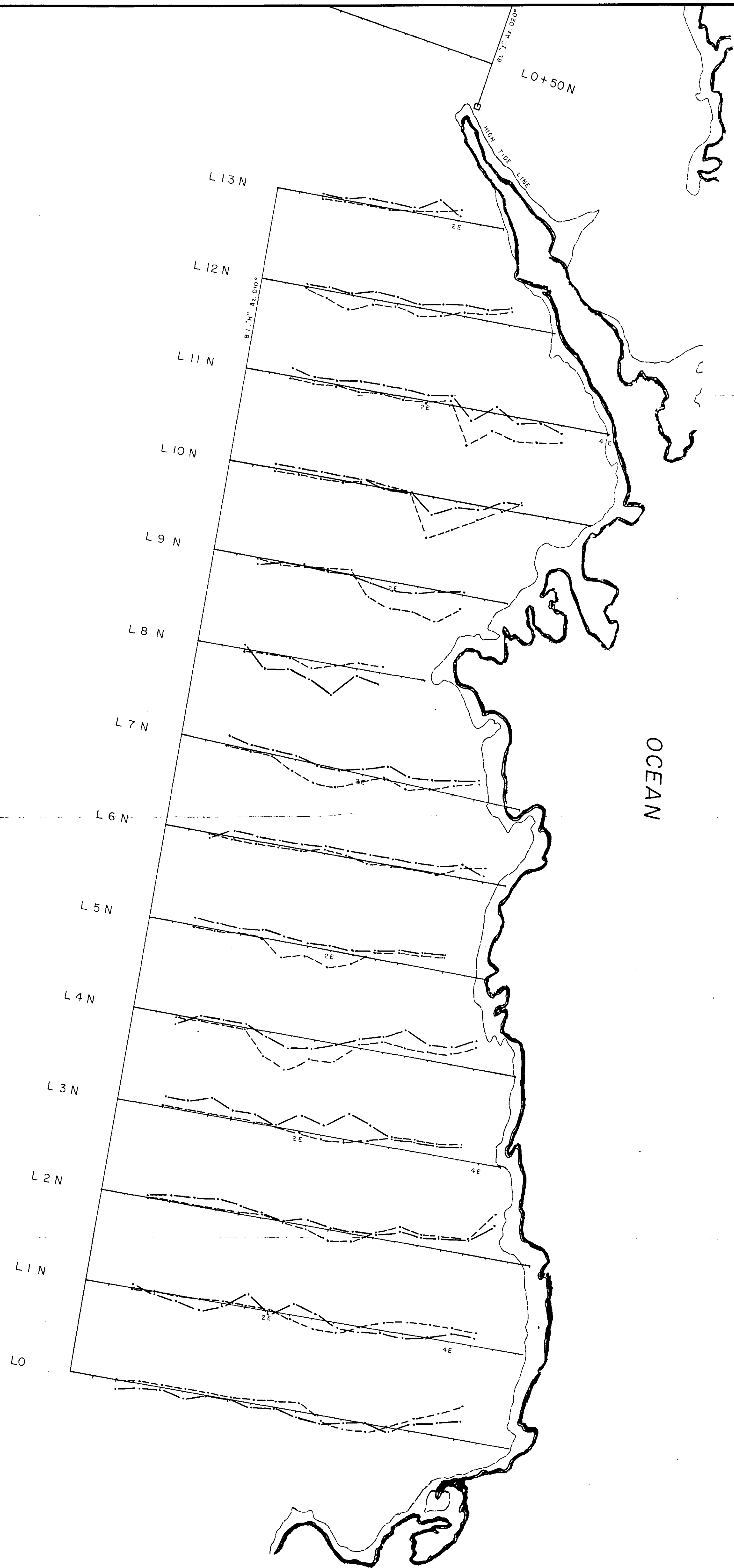
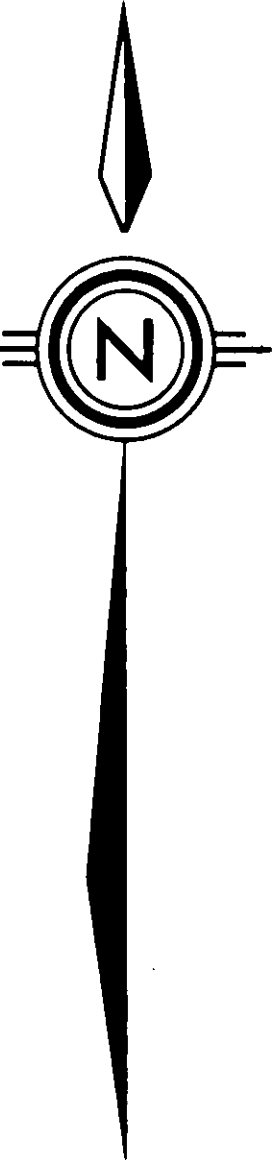
--- WEAK ANOMALY  
- - - MODERATELY STRONG ANOMALY



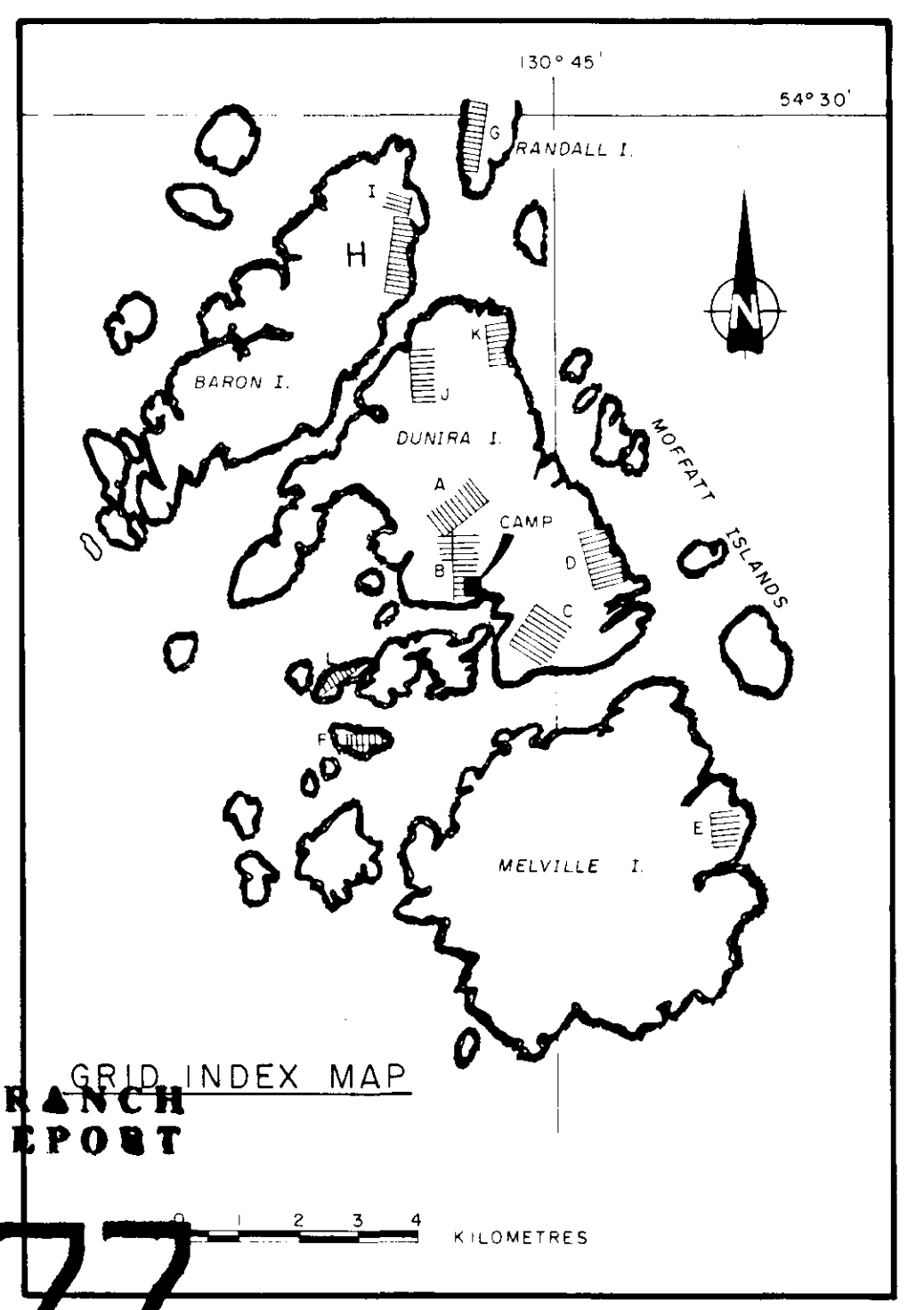
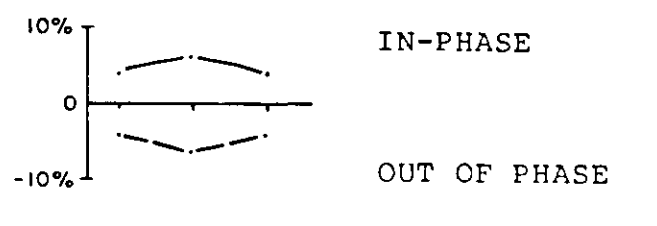
GEOLOGICAL BRANCH INDEX MAP  
ASSIGNMENT REPORT

12,777  
part 2  
of 2

BILLITON CANADA LTD.	
COAST COPPER PROJECT	
DUNIRA ISLAND BC	NTS 103-J/7
GRID <u>H</u>	
VLF-EM SURVEY	
50 0 100 200 METRES	
BY M. CARR / rwr	MAP NC H-3b
DATE AUG. 1984	



LEGEND:  
 INSTRUMENT: MAX-MIN 2  
 COIL SEPARATION = 100 METRES  
 CORRECTED FOR TOPOGRAPHY



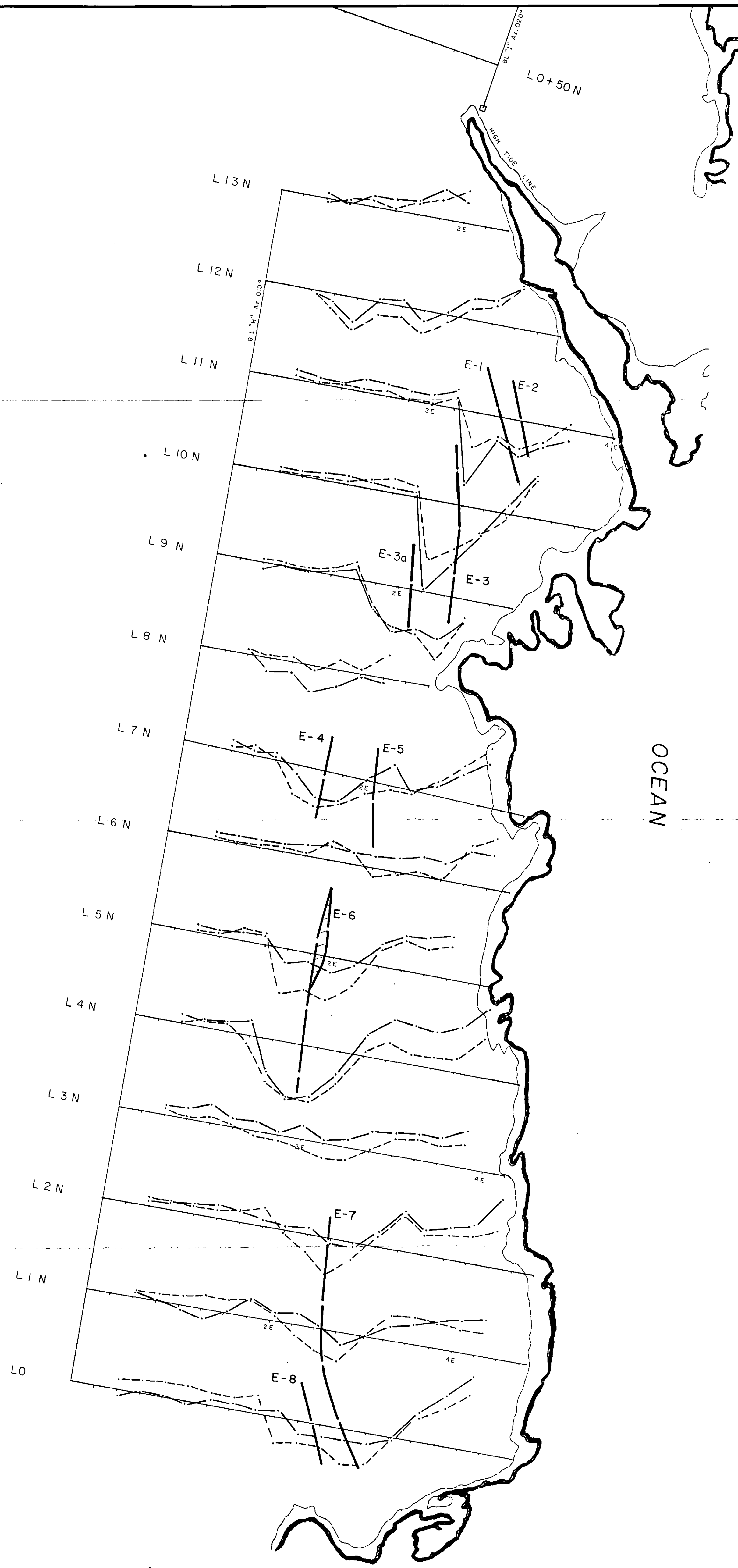
GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

12,777

part 2  
 of 2

BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND B.C. NTS 103-J/7	
<b>GRID H</b>	
HORIZONTAL LOOP EM-SURVEY OP 444 Hz.	
50 0 100 200 METRES	
BY: M CARR /rwr DATE AUG, 1984	MAP NO. H-3c

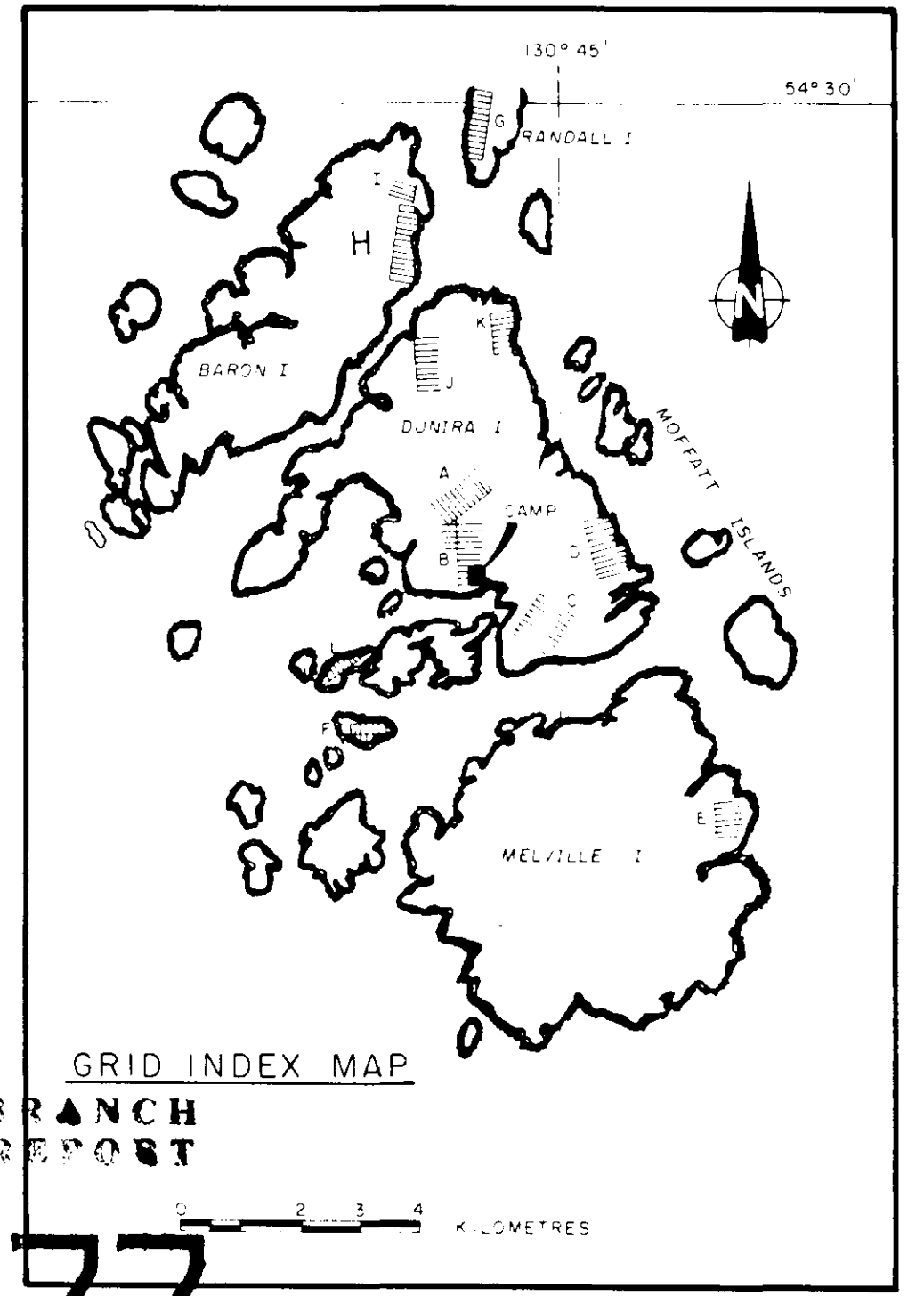




LEGEND:  
 INSTRUMENT: MAX-MIN 2  
 COIL SEPARATION = 100 METRES  
 CORRECTED FOR TOPOGRAPHY

10% IN-PHASE  
 0  
 -10% OUT OF PH. SE

E-1 EM CONDUCTOR



12,777  
 part 2  
 of 2

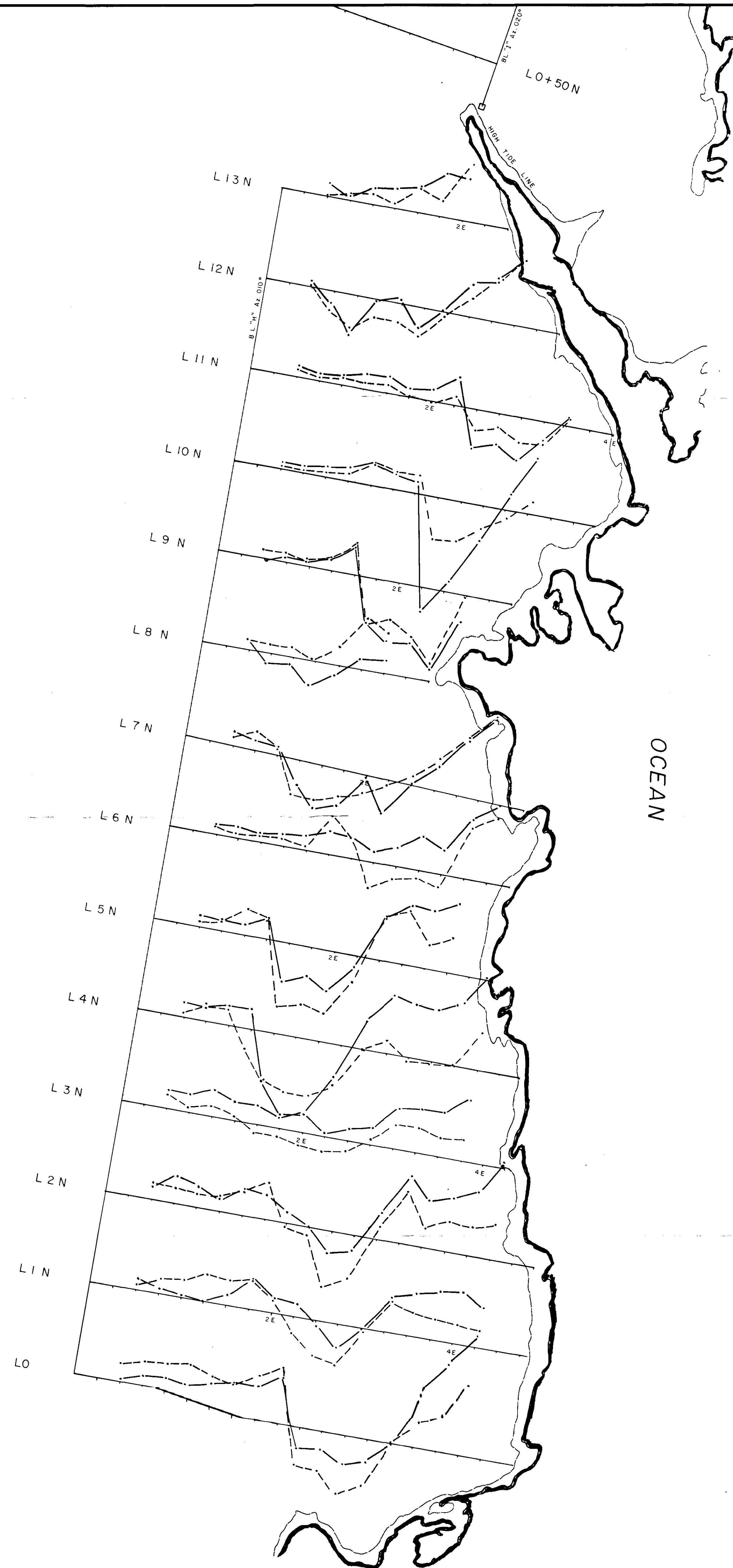
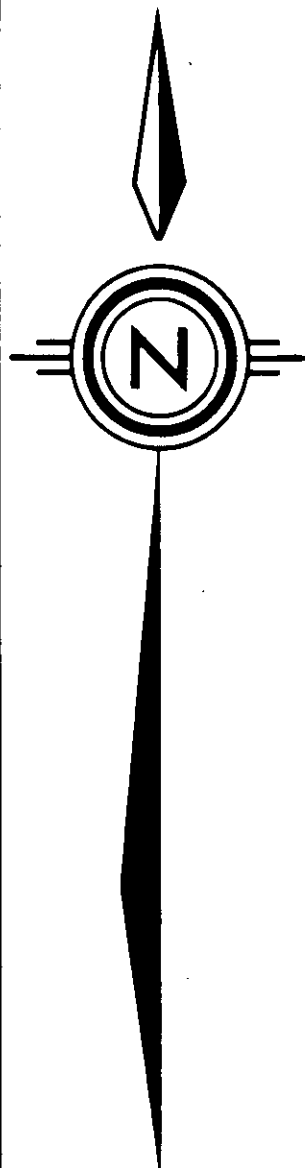
GRID INDEX MAP  
 GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

50 0 100 200 METRES

BY: M. CARR / mwr  
 DATE: AUG. 1984

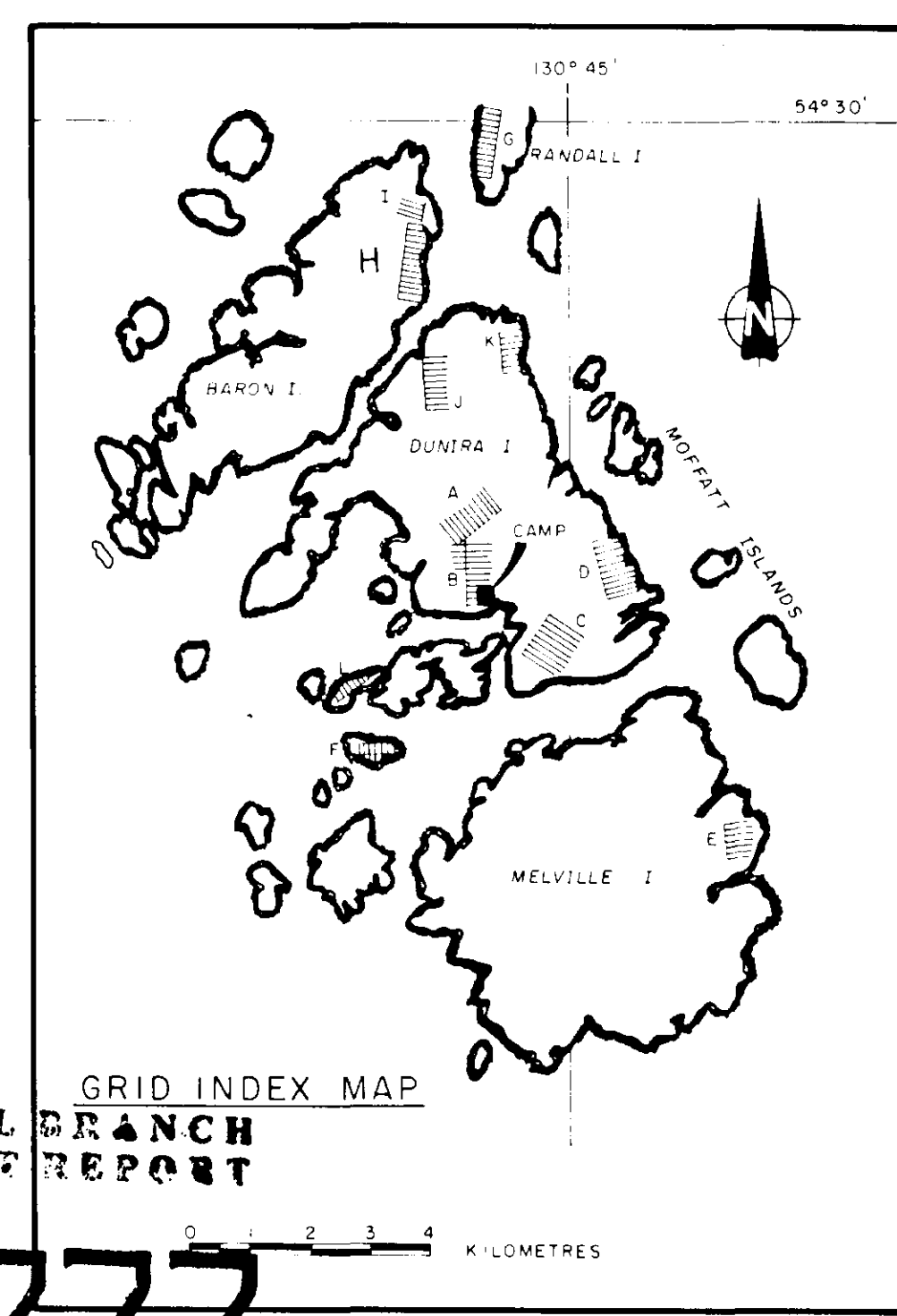
MAP NO. H-3d

BILLITON CANADA LTD.  
 COAST COPPER PROJECT  
 DUNIRA ISLAND BC. NTS 103-J/7  
 GRID H  
 HORIZONTAL LOOP EM-SURVEY  
 OP 1777 Hz.



LEGEND:  
INSTRUMENT: MAX-MIN 2  
COIL SEPARATION = 100 METRES  
CORRECTED FOR TOPOGRAPHY

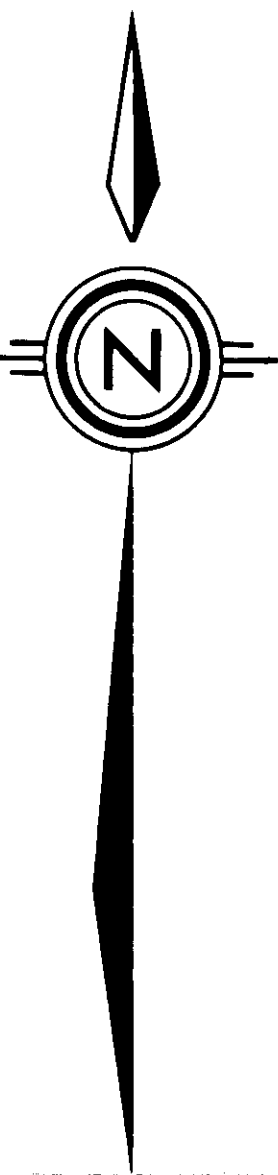
10% ——— IN-PHASE  
0 ———  
-10% ——— OUT OF PHASE



12,777

Part 2  
of 2

BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND BC. NTS 103-J/7	
GRID <u>H</u> HORIZONTAL LOOP EM-SURVEY OP 3555 Hz.	
50 0 100 200 METRES	
BY: M. CARR / rwr DATE: AUG. 1984	MAP NO. H-3e



**LEGEND:**

UNIT	DESCRIPTION
6	GRANDIOGITE and GRANDIOGITE SILLS: Massive sills are locally strongly pyritic Map Symbols - GRDR, DISP
5A	HORNFELSSED SEDIMENTS of Unit 2, adjacent to sills. Map Symbol - SULI
5	DIOGITE SILLS, DYKES and PLUTONS: Variable mafic content, foliated Map Symbols - DISH, DMXI, DIMP, DIOR, QZ DIOR
4	MAFIC FLOWS and SILLS: Pyroxene porphyry and biotite porphyry crystal taffels tuffs and flows, agglomerates and minor pyroxene sills Map Symbols - PKPP, BIPP
3	GRAPHITIC SHALES: Slaty, pyritic zones, forms lenses within Unit 2, occasional chert Map Symbols - PHGR, SEDC GR, SHALE
2	CHEMICAL and CLASTIC SEDIMENTS: Cherts, pyritic cherts, siltstones, sedimentary and volcanic phyllites, chert pebble conglomerates, volcanogenic sediments, sandstones, siltstones Map Symbols - SEDC, SULS, SEDA, PHSD, PRVC, SAND, CCLS, SDVC, SST, SILT
1	FELSIC TUFFS: Rhyolite or andesite crystal tuffs. Map Symbols - TRVY, TMAN, RHY, TPDC, TAPP

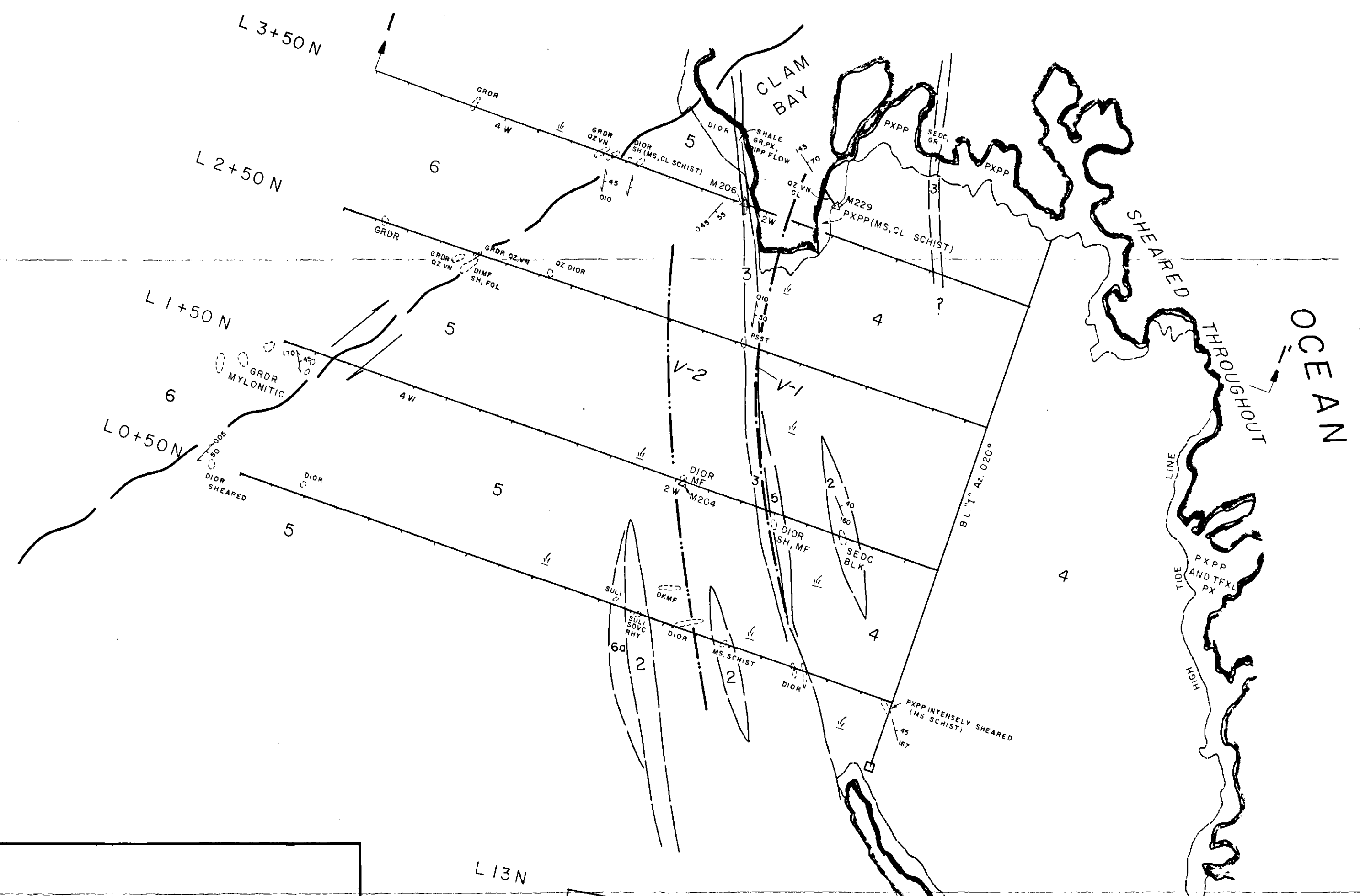
- Geological Contact - observed
- - - Geological Contact - approximate
- - - Geological Contact - assumed
- Fault
- Thrust Fault
- HLEM or VLF-EM Conductor - weak (E) (V)
- VLF-EM Conductor - moderate (V)
- VLF-EM Conductor - strong (V)
- Anticlinal Axis
- Synclinal Axis
- Overturned Anticlinal Axis with dip of axial plane and plunge of hinge line
- Strike and dip of bedding
- Strike and dip of foliation
- Azimuth and plunge of lineation
- △ ROCK SAMPLE LOCATION
- Approximate shape and position of mapped outcrop
- ▨ Alteration Zone

**MINERAL ABBREVIATIONS AND NOTATIONS**

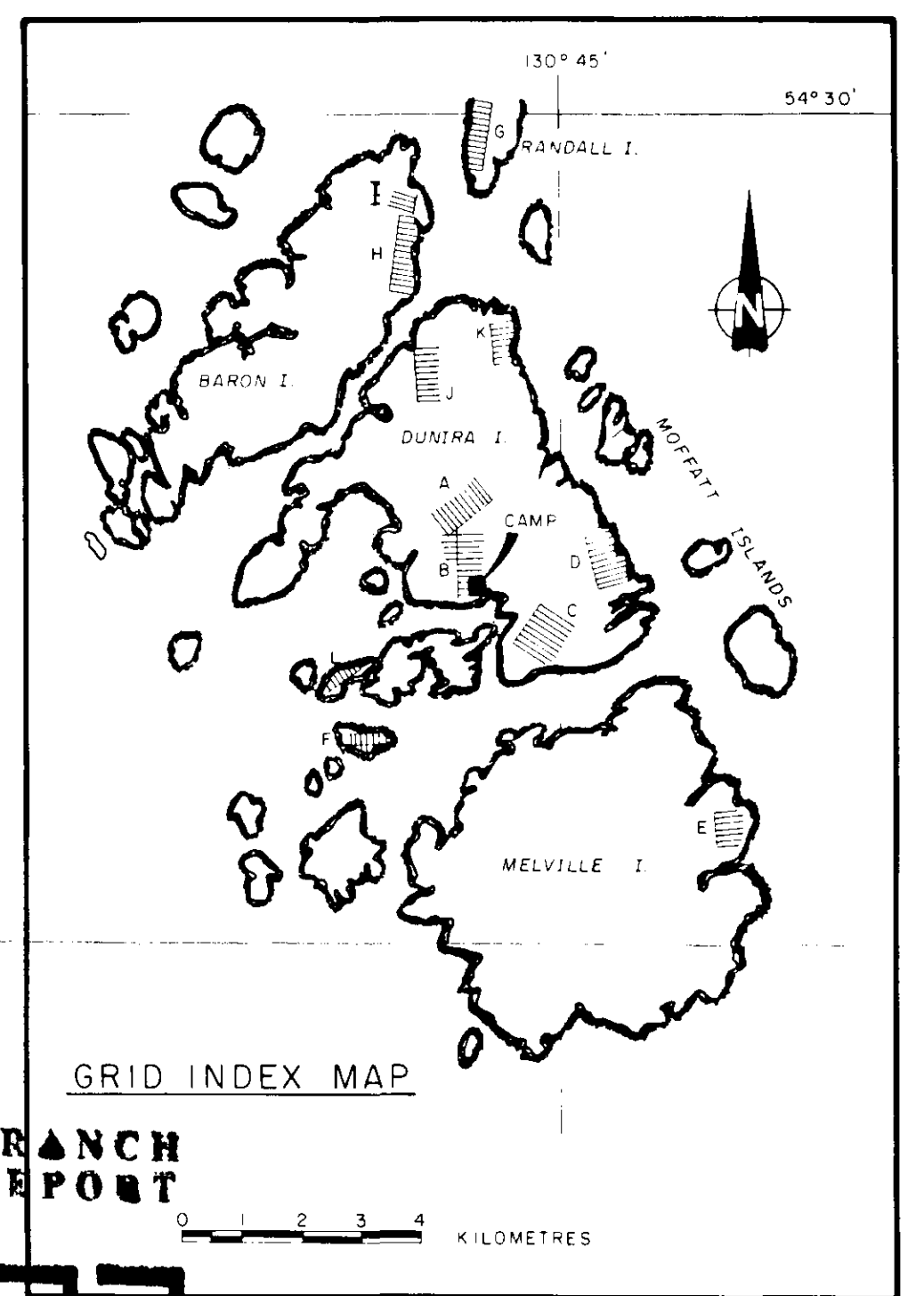
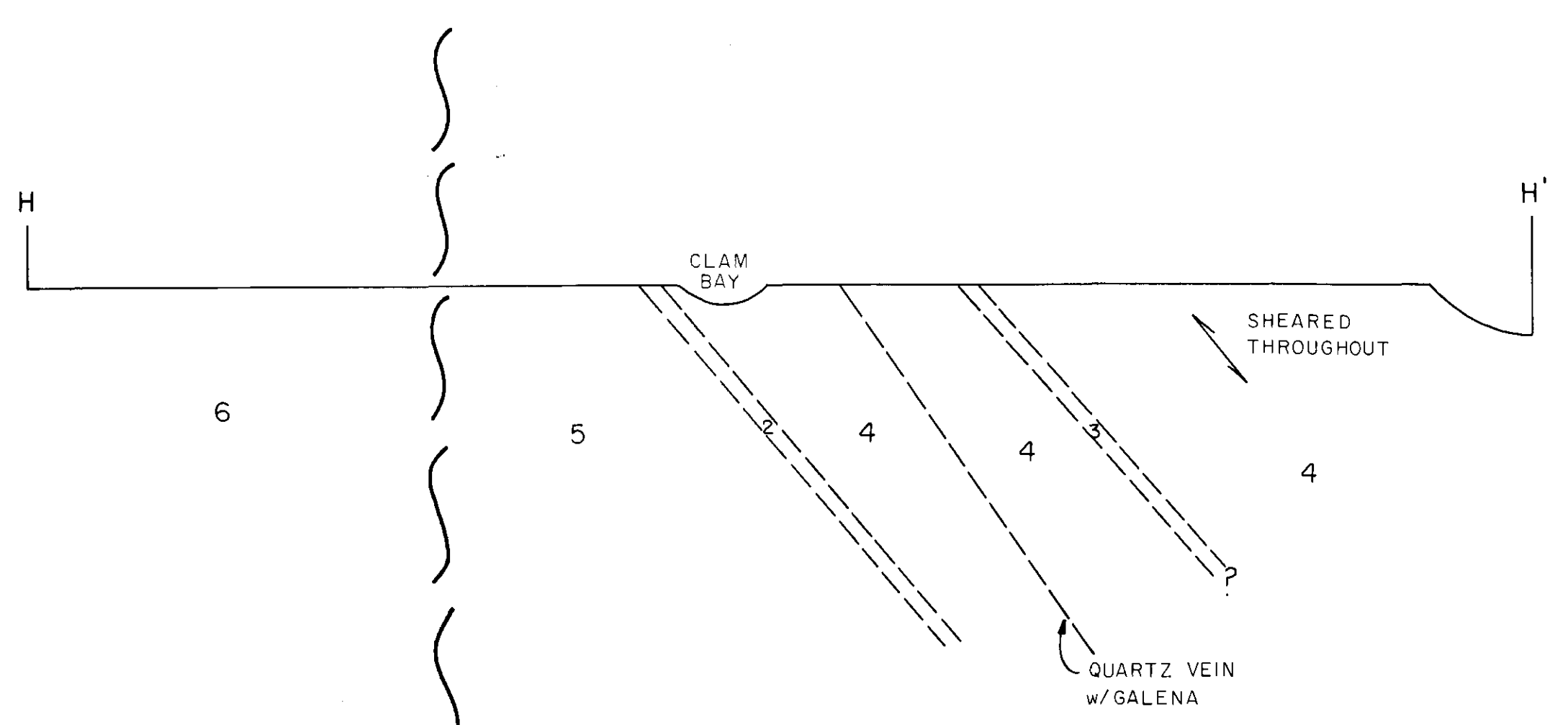
ALT	Alteration	LAM	laminated
BI	biotite	MF	mafic
BLK	black	MS	sericite
BO	boelite	MU	muscovite
BRX	breccia	PO	pyrrhotite
CB	calcite	PP	phenocrysts
CL	chlorite	PK	pyroxene
CP	chalcoppyrite	PF	pyrite
DC	dacite	QZ	quartz
FOL	foliated	SERP	serpentine
GL	galena	SH	sheared
GR	graphite	SIC	silicious
GS	grey sulphide	SIP	silicified
GY	grey	SP	sphalerite
HB	hornblende	VN	vein
KA	kaolinite		

**ROCK GEOCHEMISTRY**

SAMPLE NUMBER	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)
M208	16	114	12	0.6
M206	100	23	455	1.8
M209	6	4300	12	13.0



**CROSS SECTION I-I'**  
FACING NORTH VERTICAL AND HORIZONTAL  
SCALE 1:2500



**12,777**  
**part 2**  
**of 2**

**BILLITON CANADA LTD.**  
COAST COPPER PROJECT  
DUNIRA ISLAND BC. NTS 103-J/7  
**GRID I**  
GEOLOGY MAP

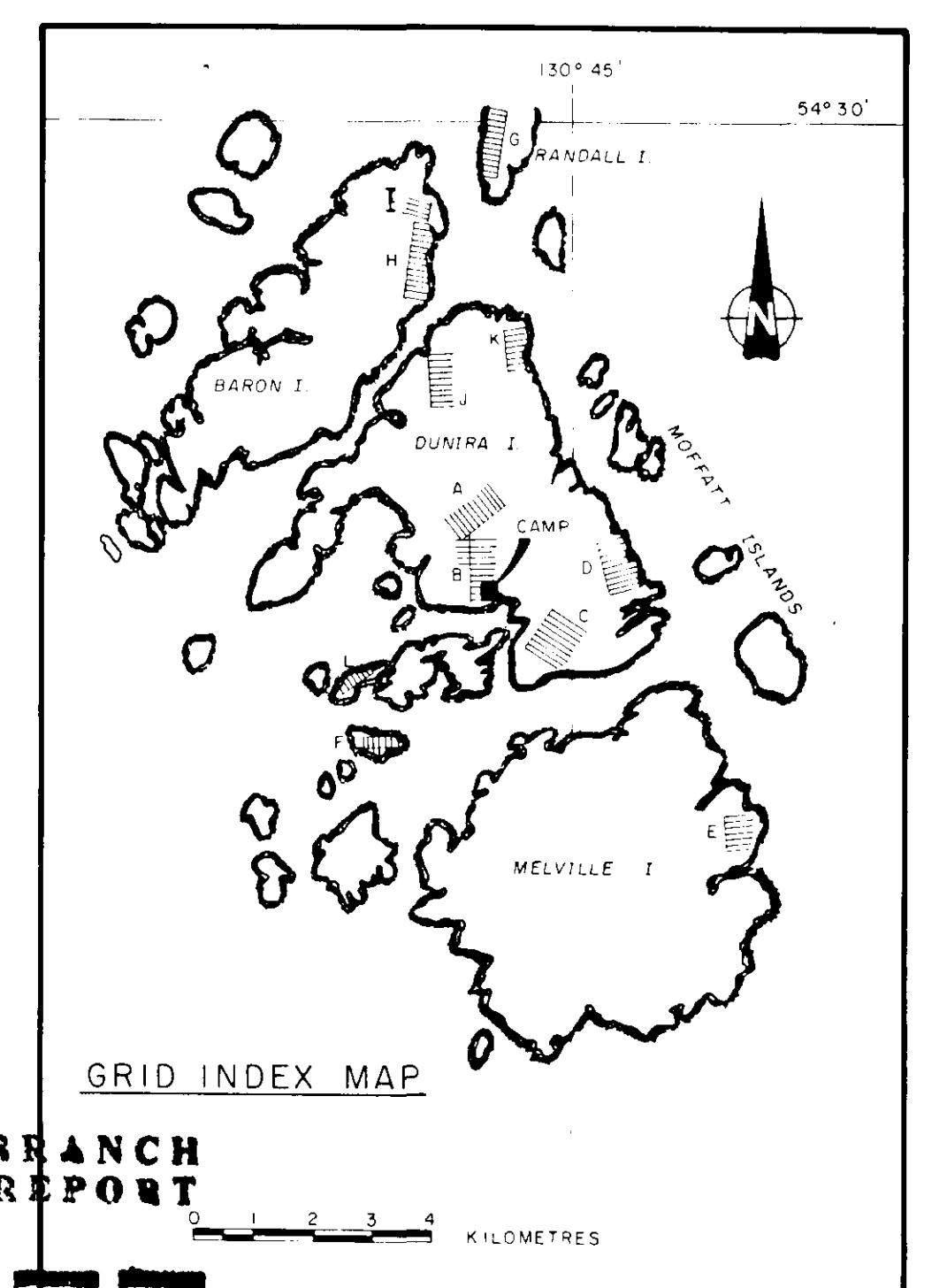
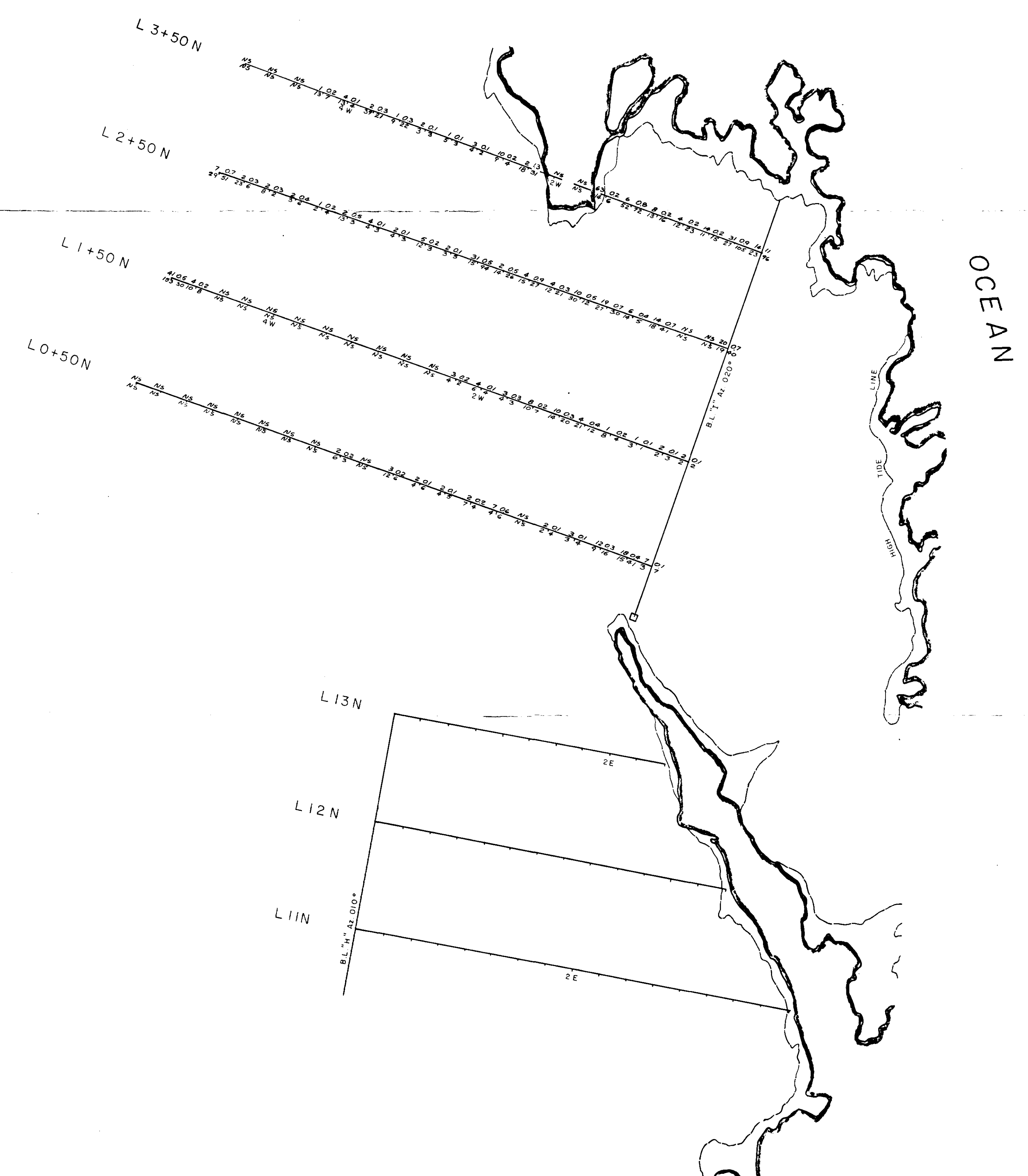
50 0 100 200 METRES

BY M CARR /rw  
DATE AUG. 1984

MAP NO. I-1



LEGEND:  
 4 0.1 Cu Ag VALUES IN P.P.M.  
 12 29 Pb Zn  
 NS = NO SAMPLE TAKEN.



GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

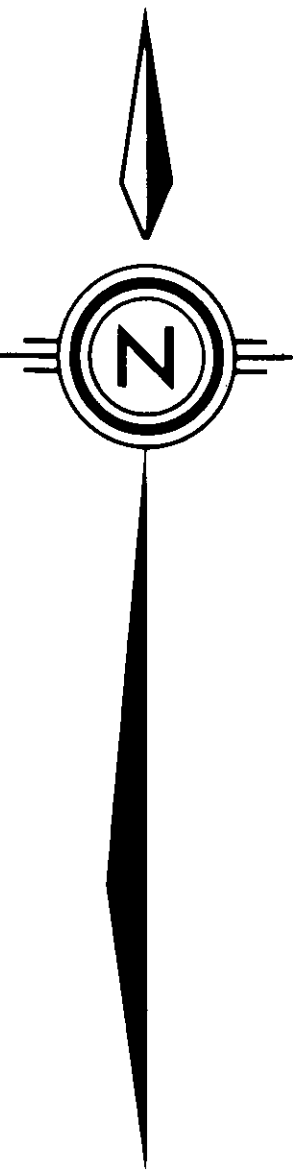
12,777  
 Part 2  
 of 2

BILLITON CANADA LTD.  
 COAST COPPER PROJECT  
 DUNIRA ISLAND BC. NTS 103-J/7  
**GRID I**  
 SOIL GEOCHEMICAL SURVEY  
 Cu, Ag, Pb & Zn RESULTS

50 0 100 200 METRES

BY M CARR /rwr  
 DATE AUG., 1984

MAP NO. I-2



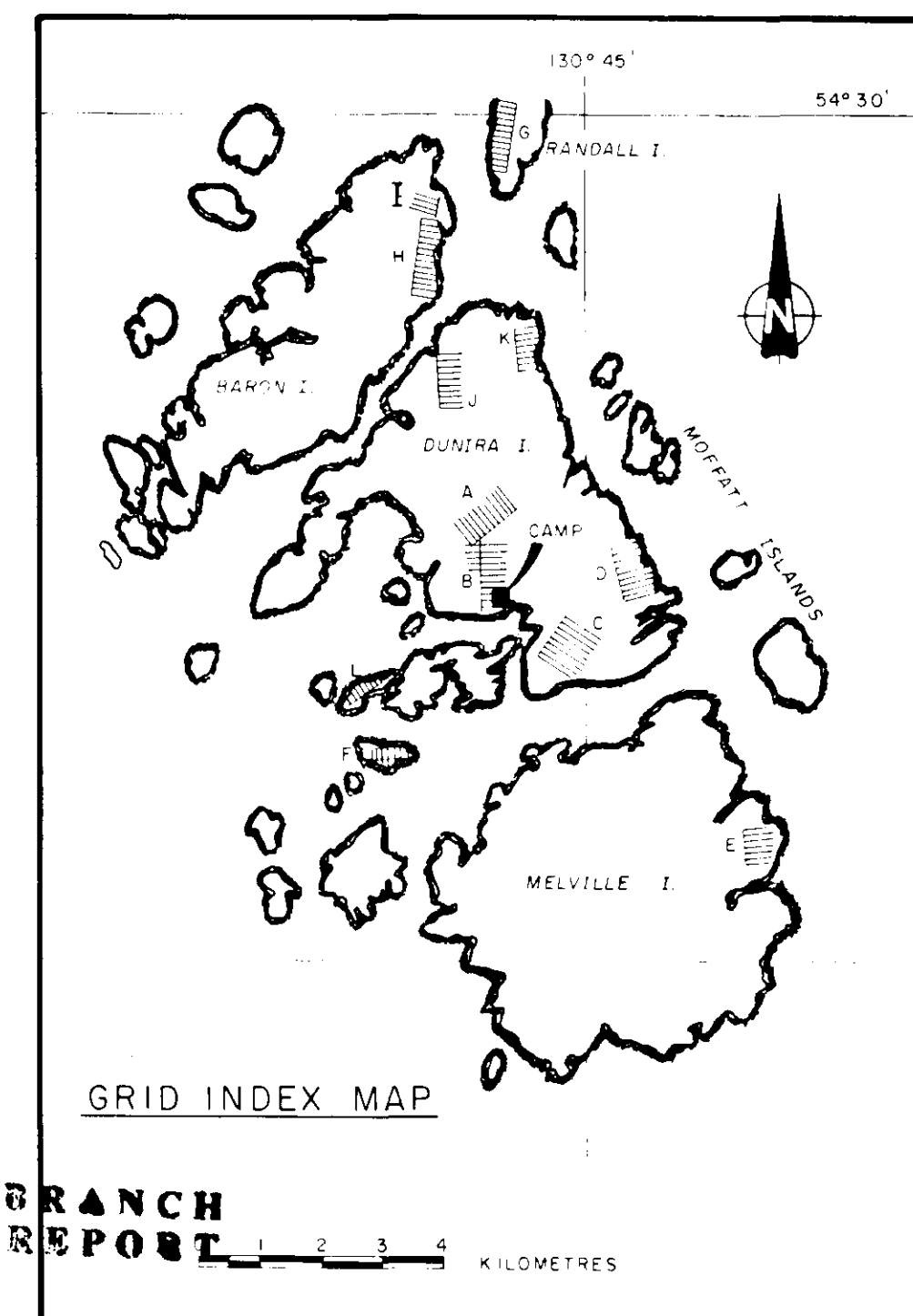
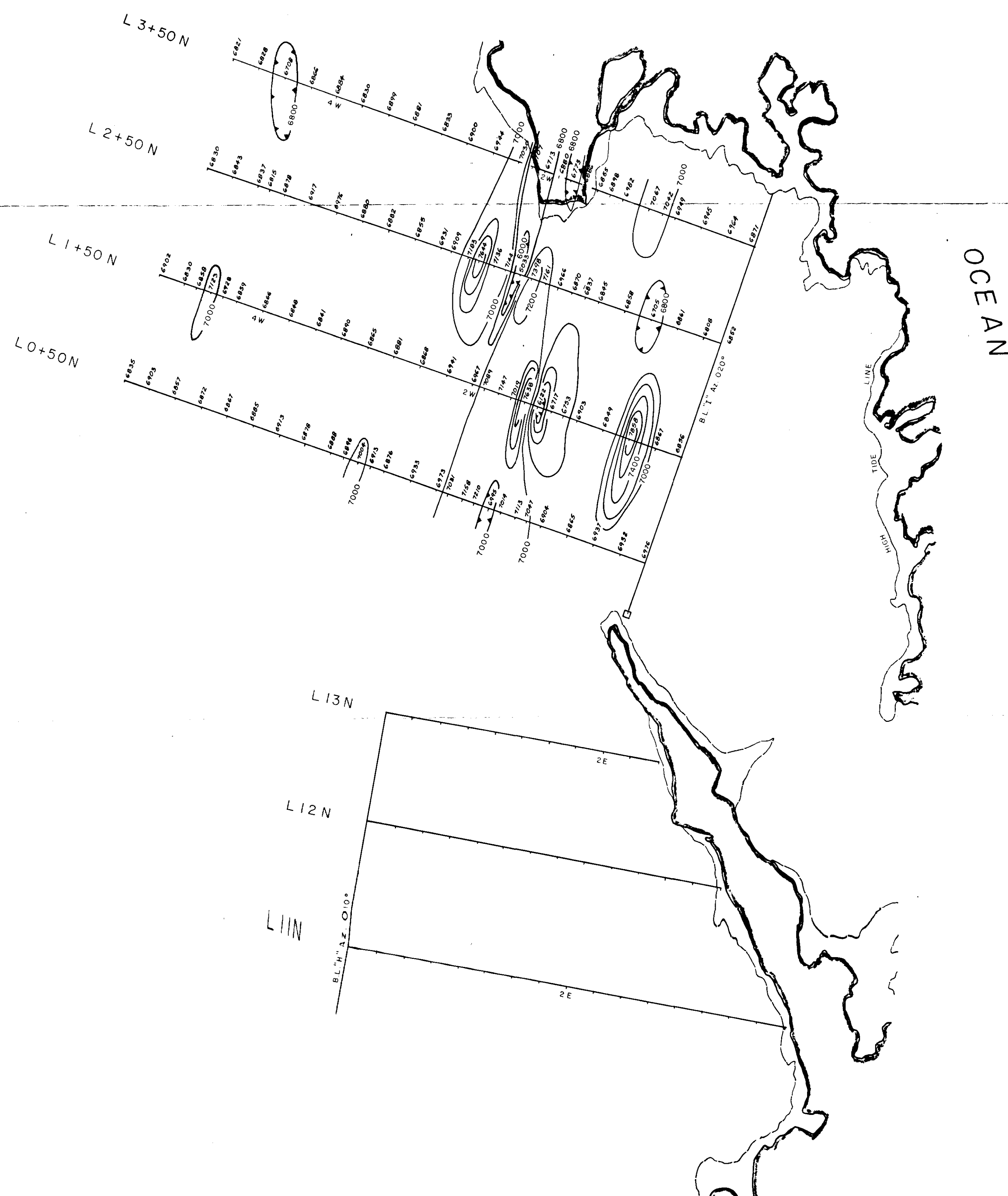
LEGEND

OPERATOR - J MONGER

INSTRUMENT : GSM-8 MAGNETOMETER

CONTOUR INTERVAL = 200 GAMMAS

NOTE: ADD 50,000 GAMMAS TO ALL VALUES



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

12,777  
part 2  
of 2

BILLITON CANADA LTD.

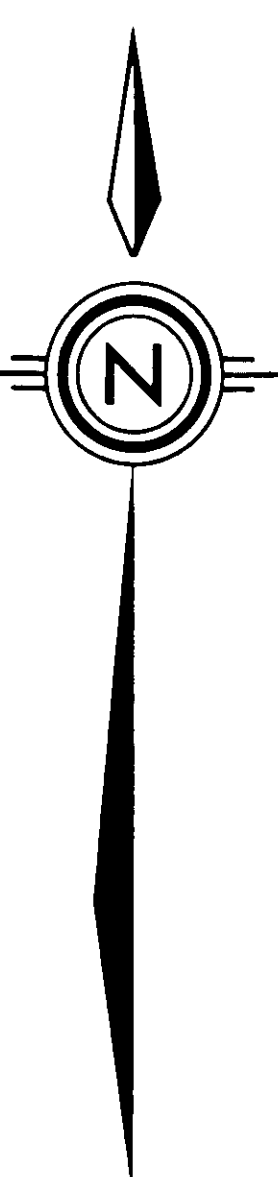
COAST COPPER PROJECT  
DUNIRA ISLAND BC. NTS 103-J/7

GRID I  
PROTON PRECESSION  
MAGNETOMETER SURVEY

50 0 100 200 METRES

BY M CARR /rwr  
DATE AUG 1984

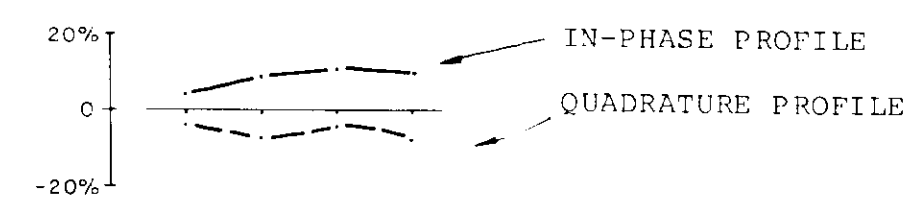
MAP NO. I-30



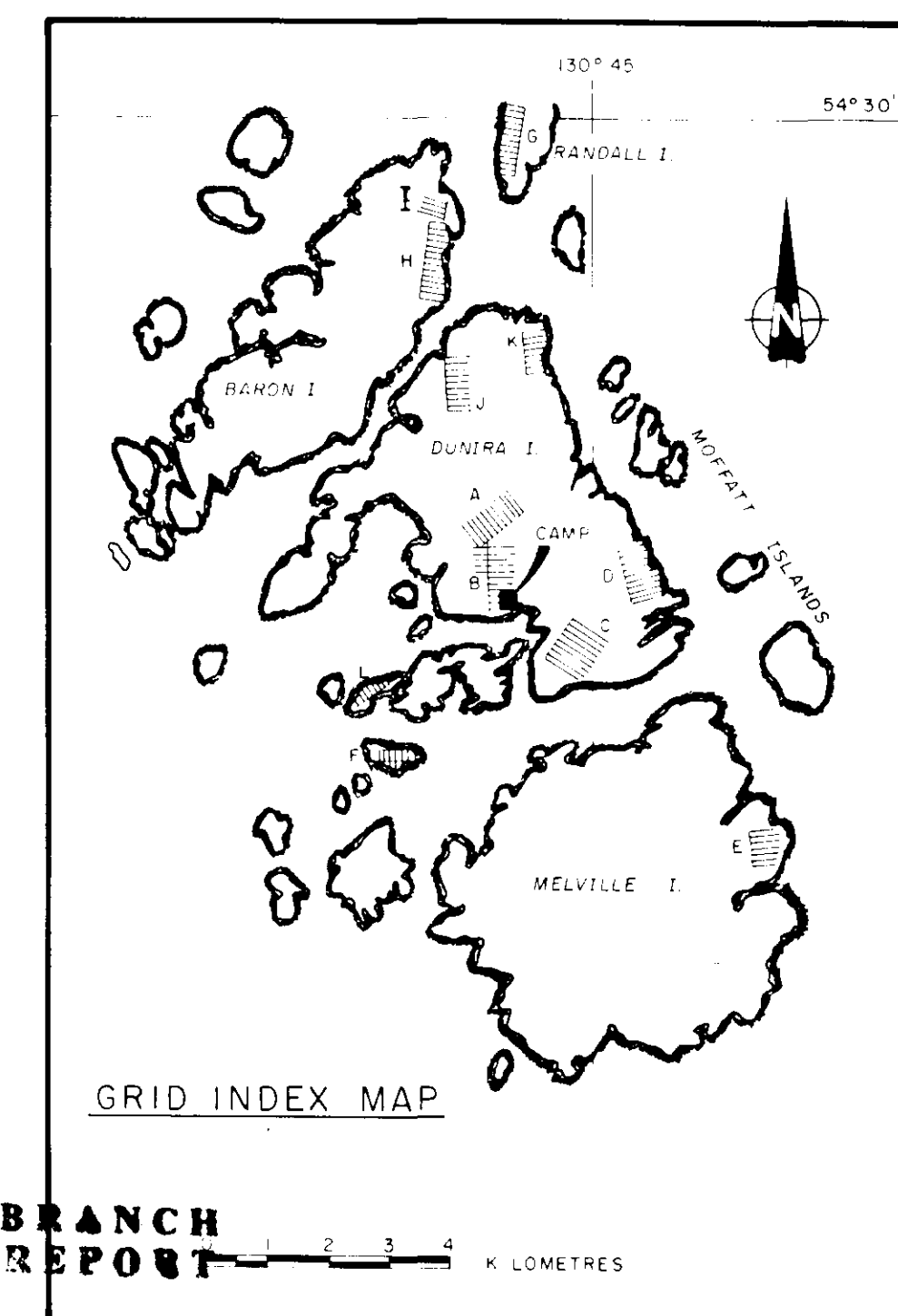
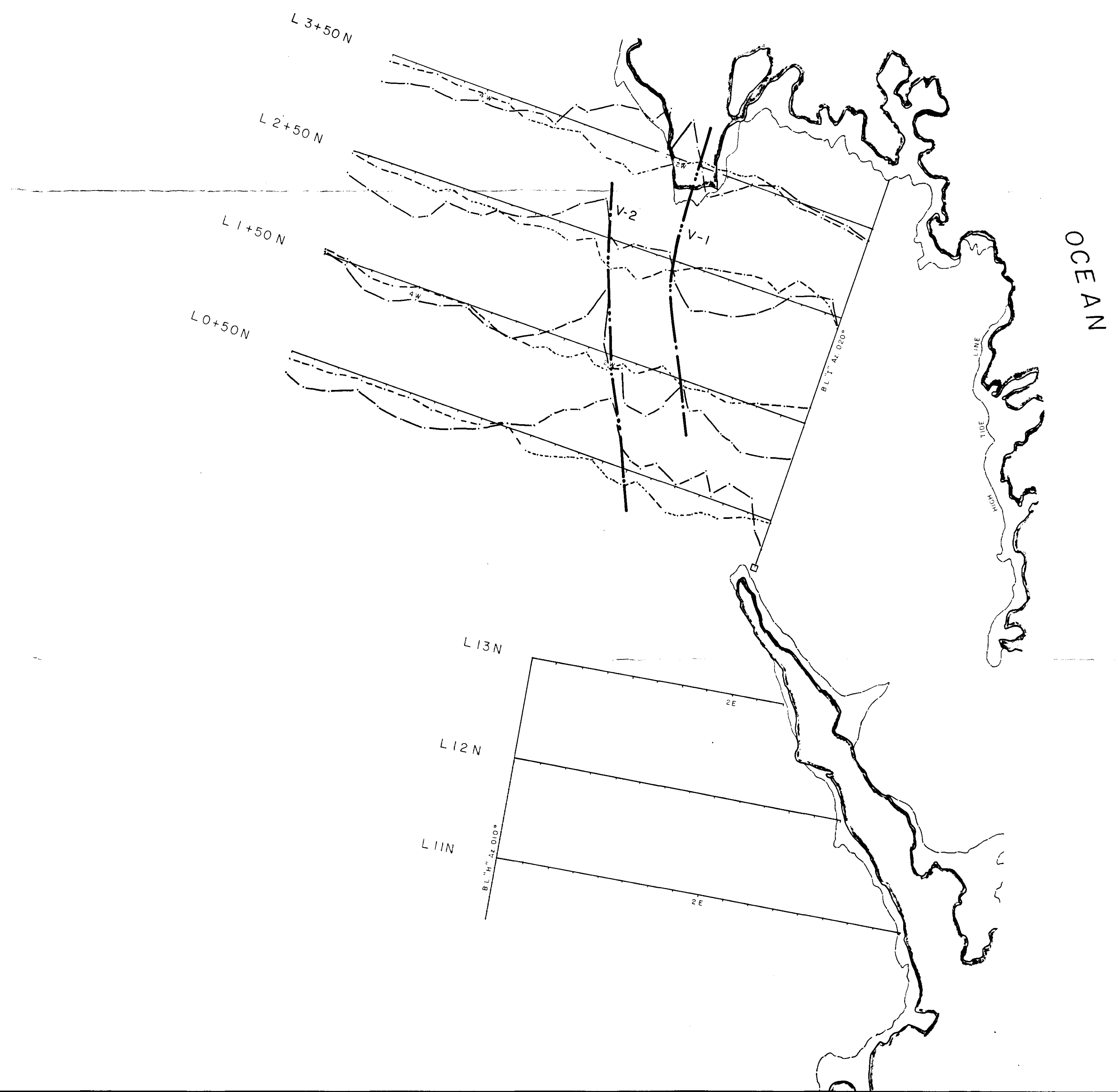
LEGEND:

INSTRUMENT: EM-16  
COIL SEPARATION = 100m  
STATION: NLK SEATTLE  
FACING EAST

PROFILE SCALE



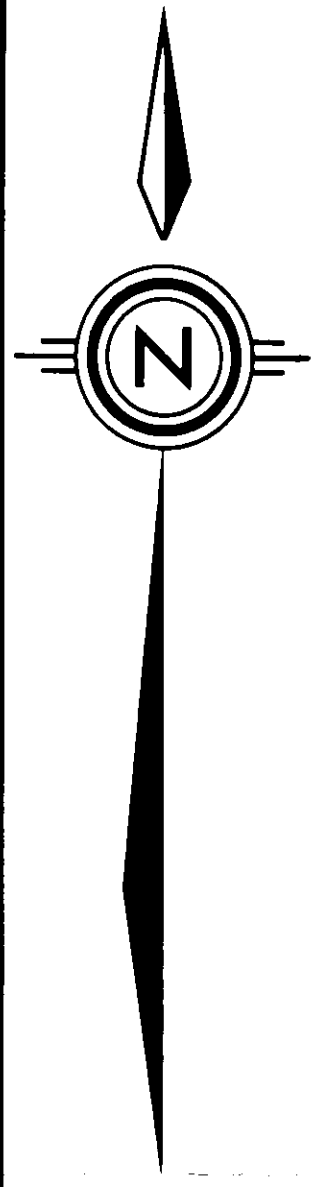
--- WEAK ANOMALY  
- - - MODERATELY STRONG ANOMALY



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

12,777  
part 2  
OF 2

BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND B.C. NTS 103-J/7	
GRID I	
VLF-EM SURVEY	
50 0 100 200 METRES	
BY: M. CARR / rwr	MAP NO. I-35
DATE: AUG., 1984	



**LEGEND**

UNIT	DESCRIPTION
6	GRANDIODORITE and GRANODIORITE SILLS: Massive sills are locally strongly pyritic Map Symbols - GADR, DISF
6A	HORNfelsED SEDIMENTS of Unit 2, adjacent to sills. Map Symbol - SULI
5	DIORITE SILLS, DYKES and PLUTONS: Variable mafic content, foliated Map Symbols - DIM, DM1, DMF, DIOR, Q2 DIOR
4	MAFIC FLOWS and SILLS: Pyroxene porphyry and biotite porphyry crystal lapilli tuffs and flows, agglomerates and minor pyroxene sills Map Symbols - FXPP, BIPP
3	GRAPHITIC SHALES: Slaty, pyritic zones, forms lenses within Unit 2, occasional chert Map Symbols - PHGR, SEDC GR, SHALE
2	CHEMICAL and CLASTIC SEDIMENTS: Cherts, pyritic cherts, siltstones, sedimentary and volcanic phyllites, chert pebble conglomerates, volcanogenic siltstones, sandstones, siltstones Map Symbols - SEDC, SALS, SEDA, PHSD, PHVC, SAND, CGLS, SDVC, SST, SIRR
1	FELSIC TUFFS: Rhyolite or andesite crystal tuffs. Map Symbols - TRRH, TRAN, RHY, TRDC, FXPP

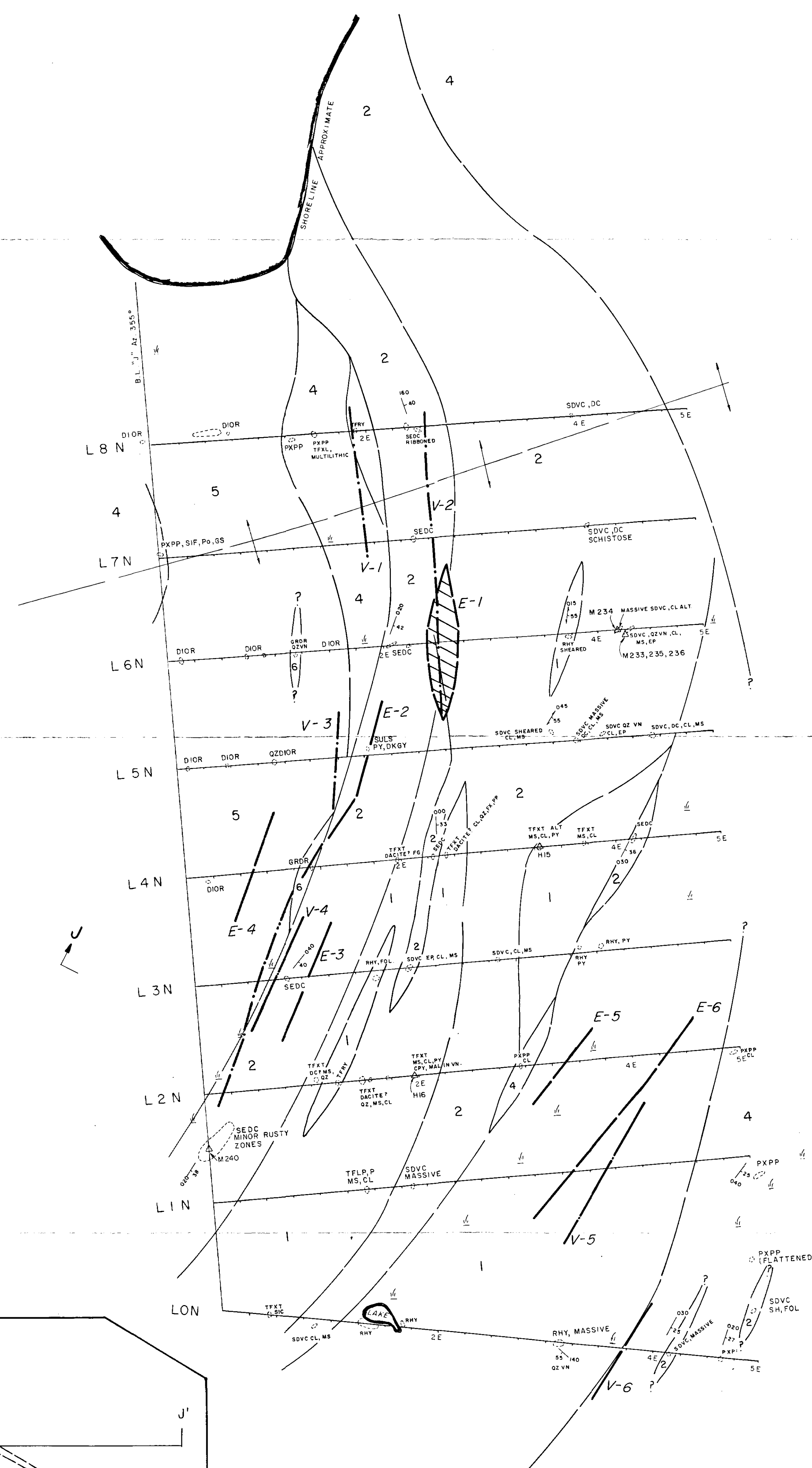
—	Geological Contact - observed	△	ROCK SAMPLE LOCATION
- - -	Geological Contact - approximate	○	Approximate shape and position of mapped outcrop
- · - · -	Geological Contact - assumed	▨	Alteration Zone
— —	Fault		
—/—	Thrust Fault		
— —	MEM or VLF-EM Conductor - weak (W)		
— —	VLF-EM Conductor - moderate (V)		
— —	VLF-EM Conductor - strong (S)		
— —	Anticlinal Axis		
— —	Synclinal Axis		
— —	Overtured Anticlinal Axis with dip of axial plane and plunge of hinge line		
— —	Strike and dip of bedding		
— —	Strike and dip of foliation		
— —	Arithmetic and plunge of lineation		

**MINERAL ABBREVIATIONS AND NOTATIONS**

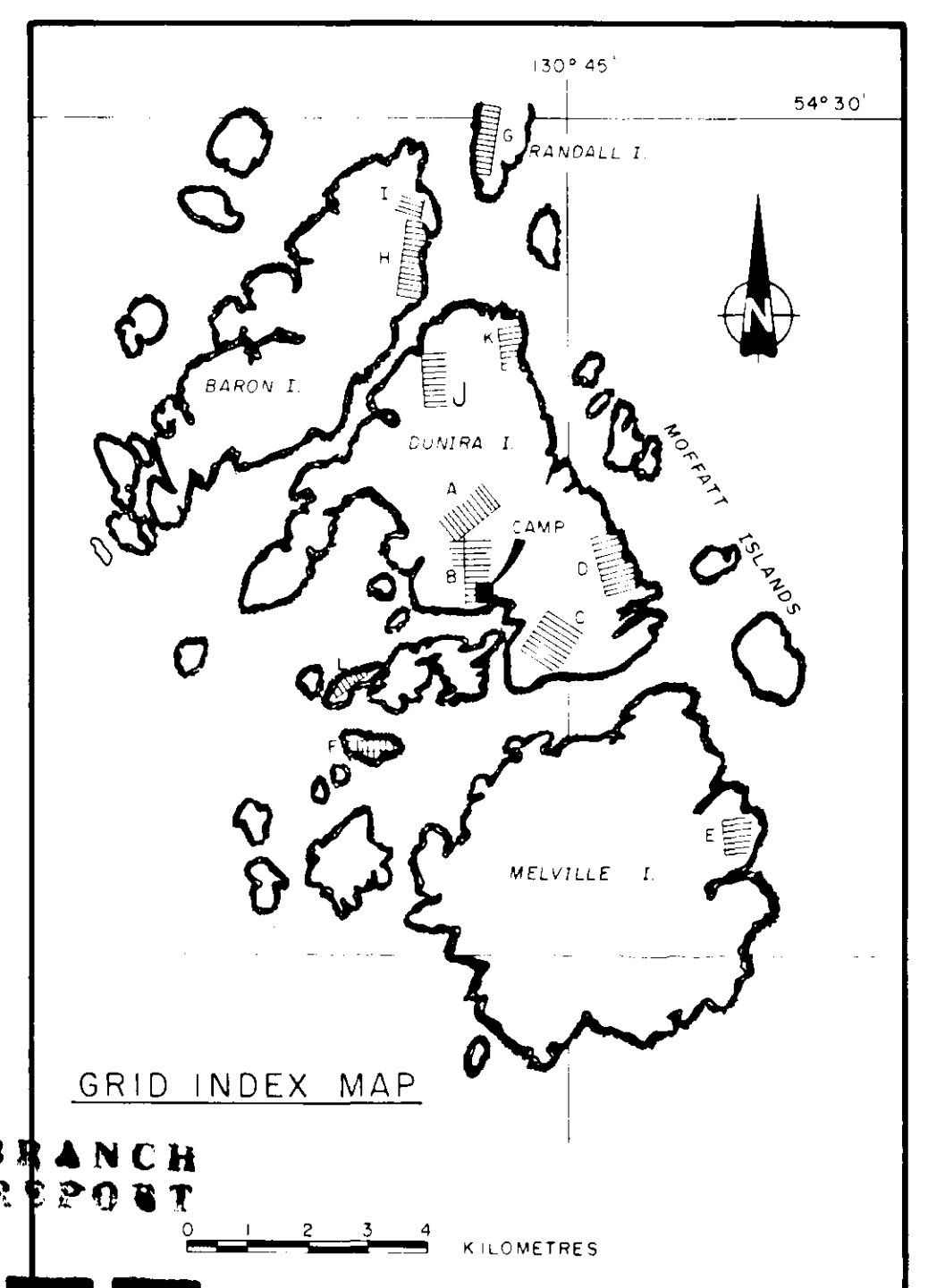
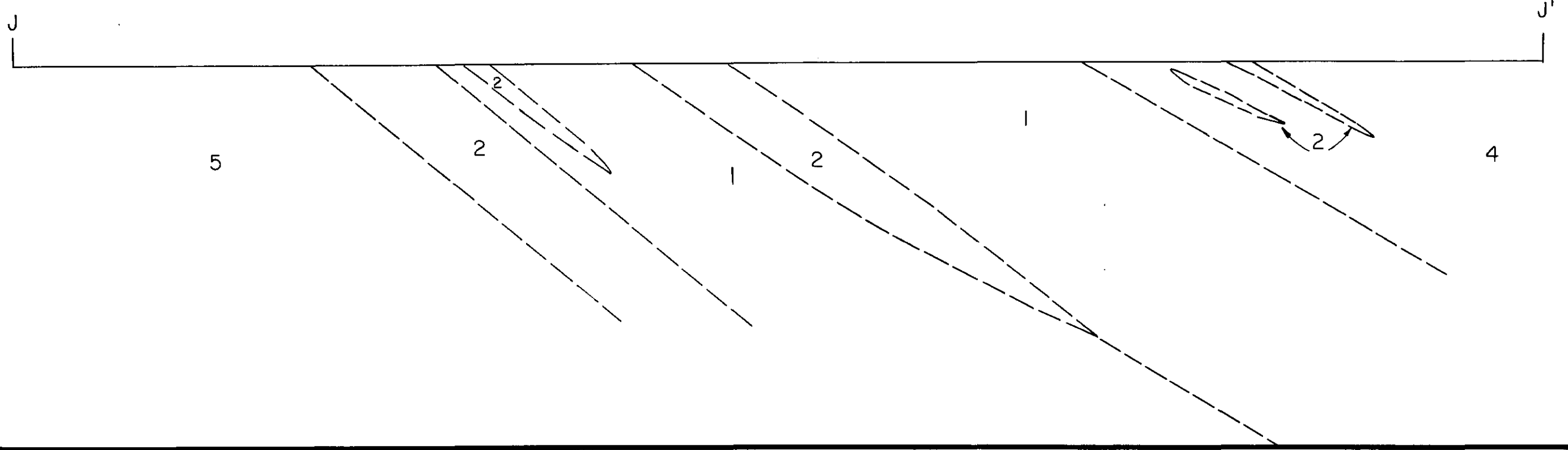
ALT	alteration	LAM	laminated
BI	biotite	MF	mafic
BLK	black	MS	sericite
BO	hornblende	MU	muscovite
BREX	breccia	PO	pyrrhotite
CB	calcite	PP	phenocrysts
CL	chlorite	PX	pyroxene
CP	chalcopryite	PY	pyrite
DC	dacite	QZ	quartz
FOL	foliated	SEDP	serpentine
GL	galena	SH	sheared
GR	graphite	SIC	silicified
GS	gray sulphide	SIF	silicified
GY	gray	SP	sphalerite
HB	hornblende	VM	vein
KA	kaolinite		

**ROCK GEOCHEMISTRY**

SAMPLE NUMBER	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)
M233	58	20	8	0.2
M234	44	10	22	0.1
M235	4	16	8	0.2
M236	156	6	11	0.1
M240	126	11	1390	0.4
M 15	5	8	20	0.1
M 16	910	10	23	1.0



**CROSS SECTION J-J'**  
LOOKING NORTH VERTICAL AND HORIZONTAL SCALES 1:2500  
TOPOGRAPHY INFERRED



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

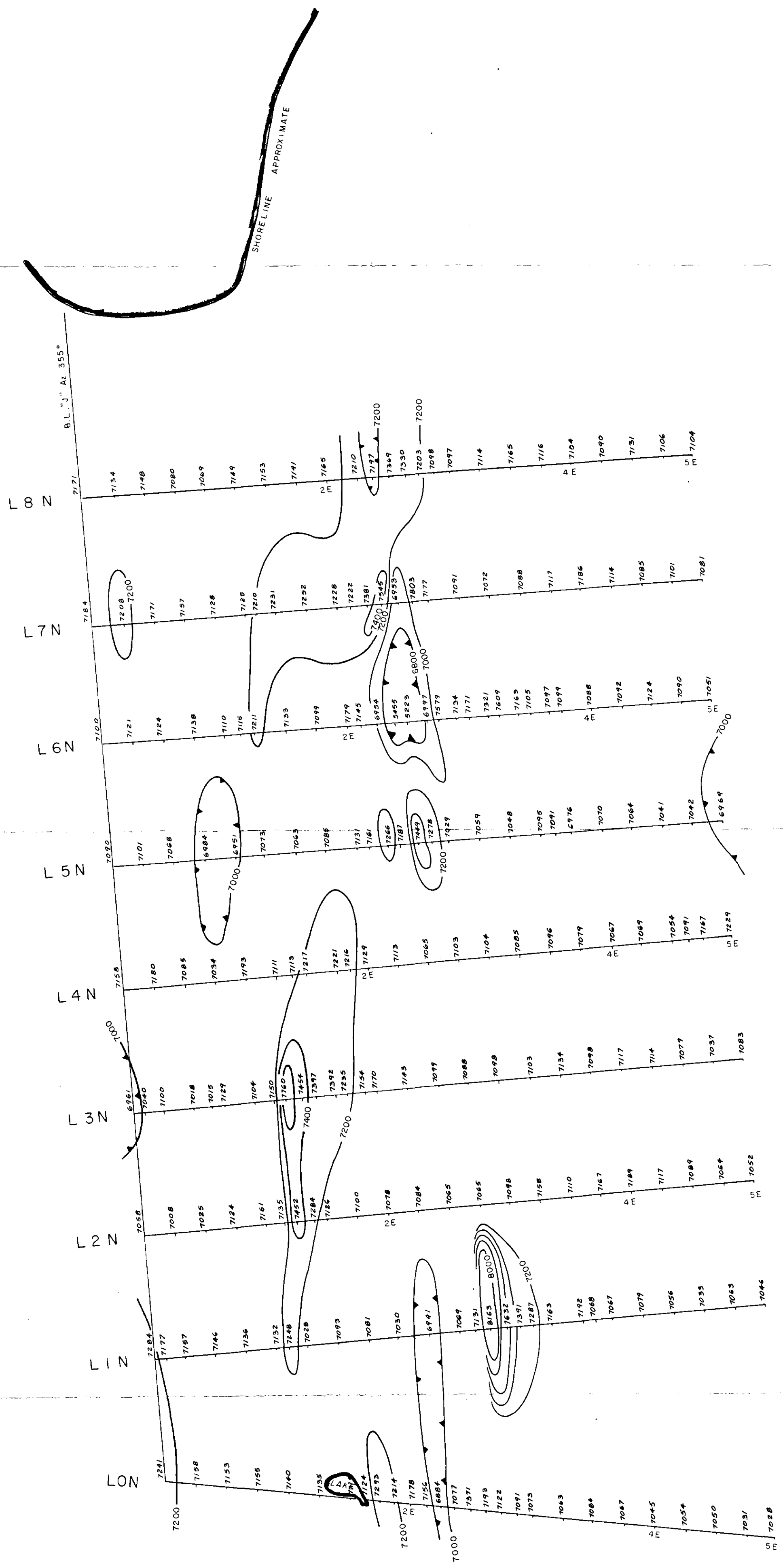
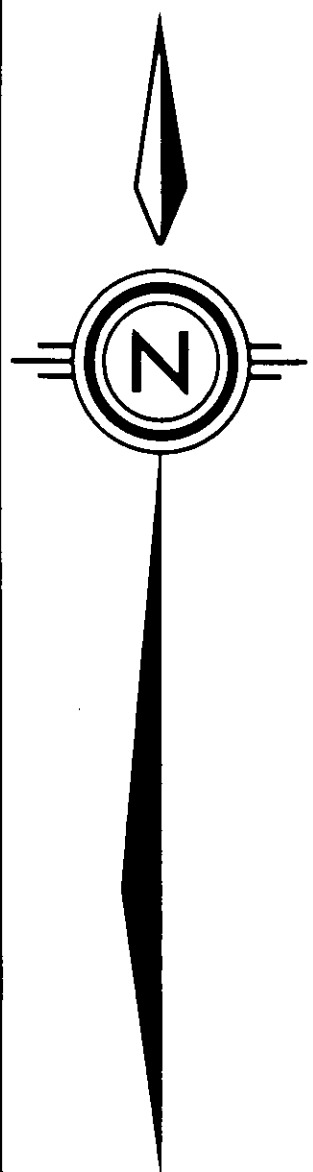
**12,777**  
**part 2**  
**OF 2**

**BILLITON CANADA LTD.**  
COAST COPPER PROJECT  
DUNIRA ISLAND B.C. NTS 103-J/7  
**GRID J**  
**GEOLOGY MAP**

BY M CARR / rwr  
DATE AUG. 1984  
MAP NO. J-1







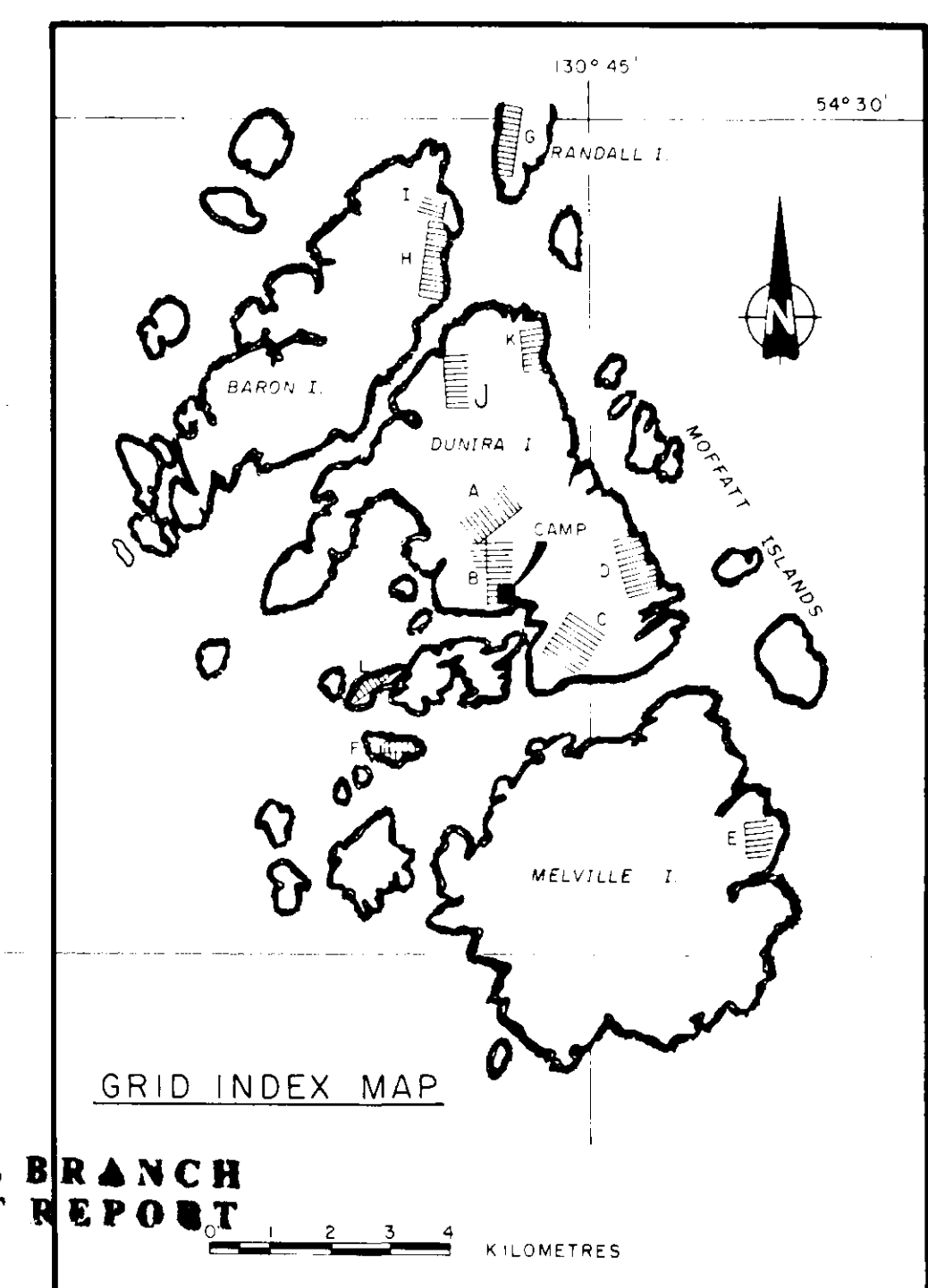
LEGEND:

OPERATOR - S. FRAPPIER

INSTRUMENT : GSM-8 MAGNETOMETER

CONTOUR INTERVAL = 200 GAMMAS

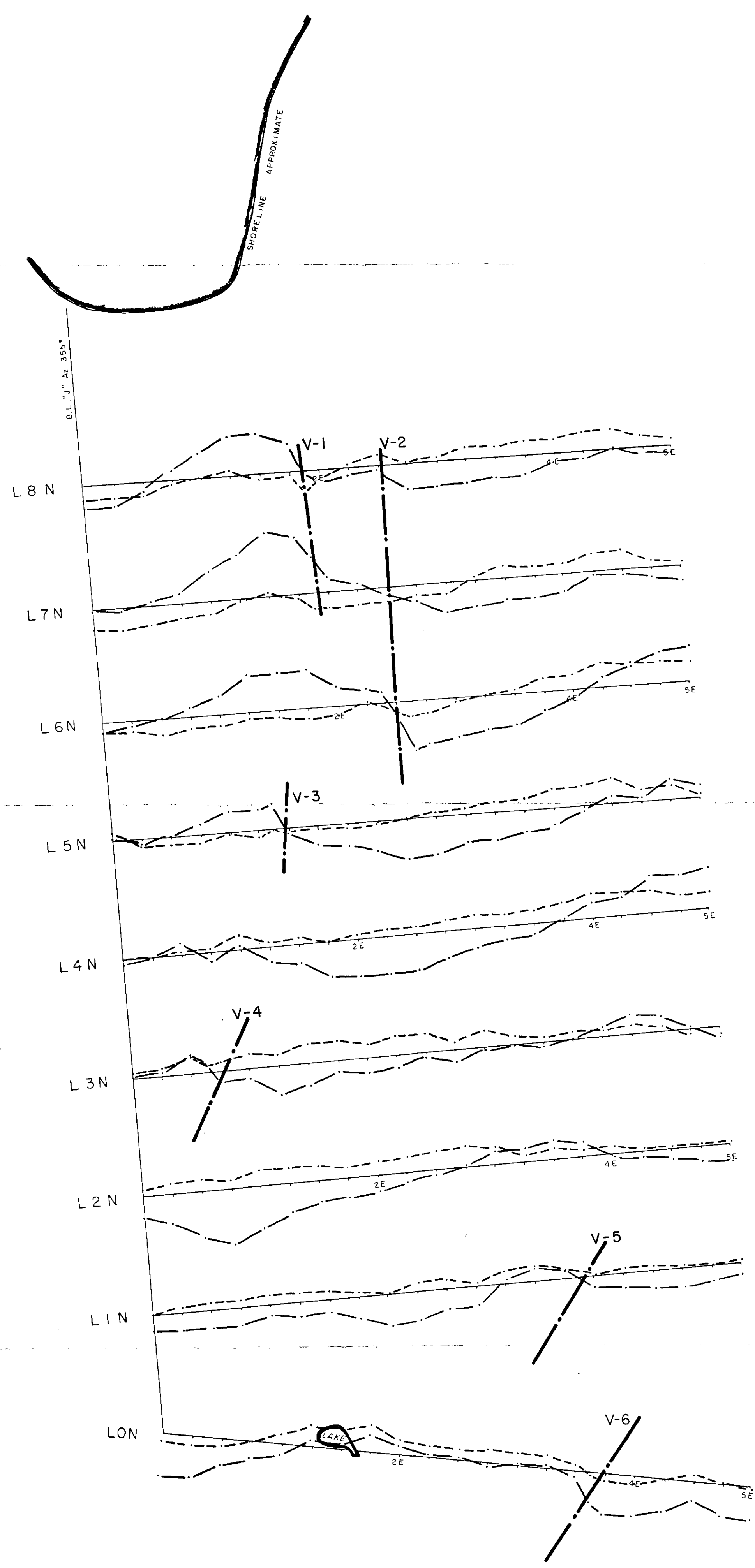
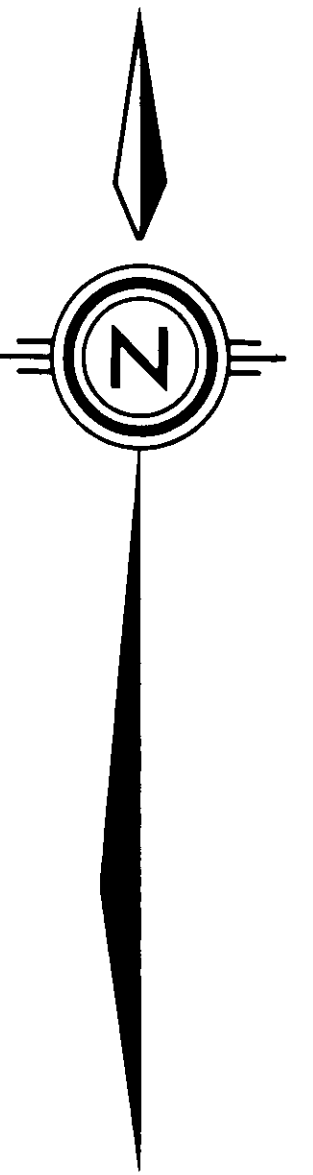
NOTE: ADD 50,000 GAMMAS TO ALL VALUES



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

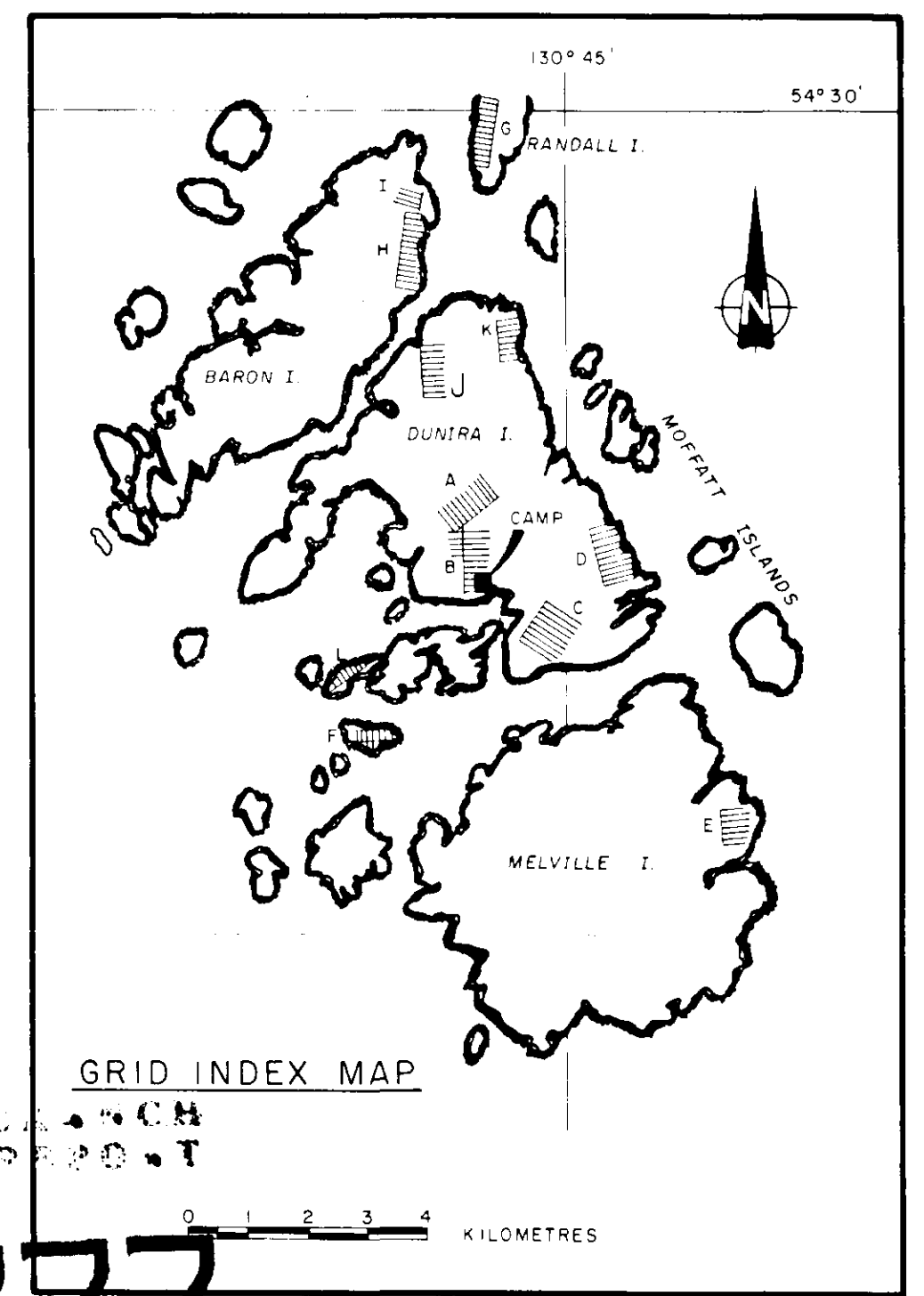
12,777  
part 2  
of 3

BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND BC. NTS 103-J/7	
GRID J	
PROTON PRECESSION MAGNETOMETER SURVEY	
50 0 100 200 METRES	
BY: M. CARR / rwr	MAP NO. J-30
DATE: AUG., 1984	



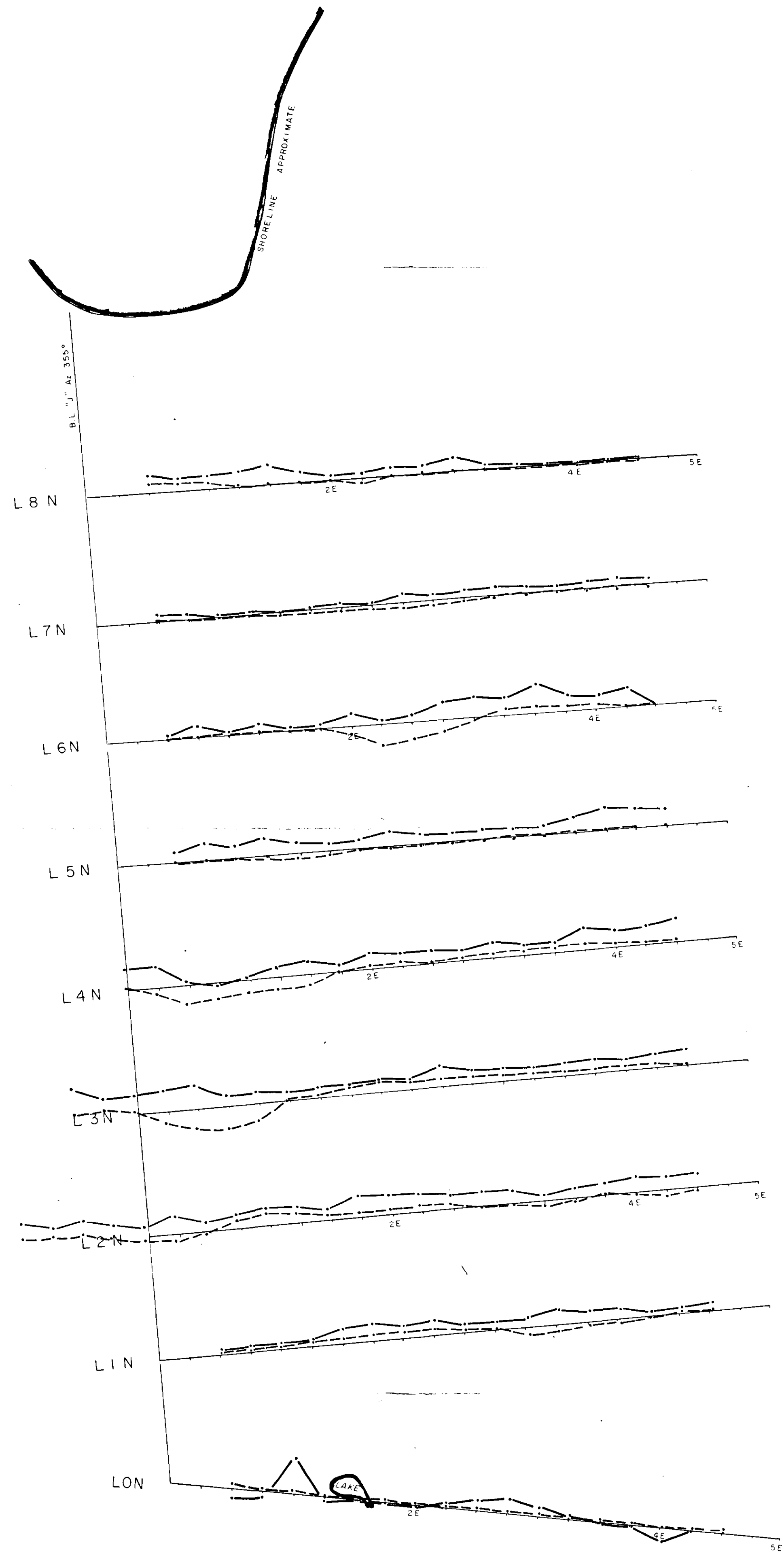
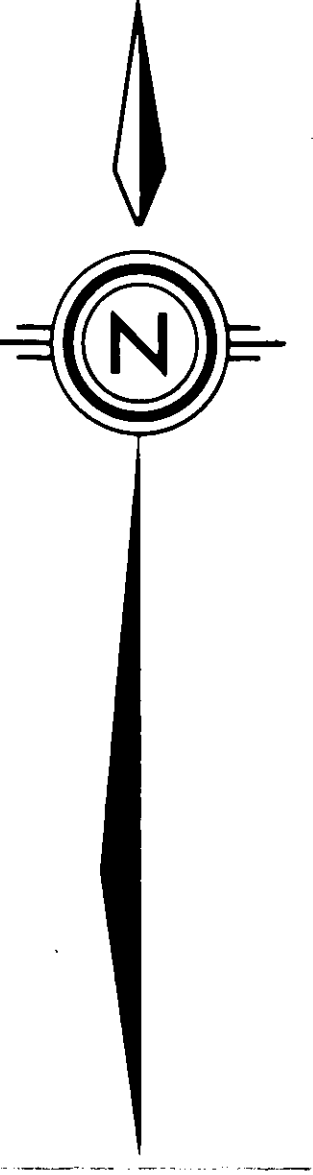
LEGEND:

INSTRUMENT: EM-16  
 COIL SEPARATION = 100m  
 STATION: NLK SEATTLE  
 FACING EAST  
 PROFILE SCALE  
 20%  
 0  
 -20%  
 IN-PHASE PROFILE  
 QUADRATURE PROFILE  
 WEAK ANOMALY



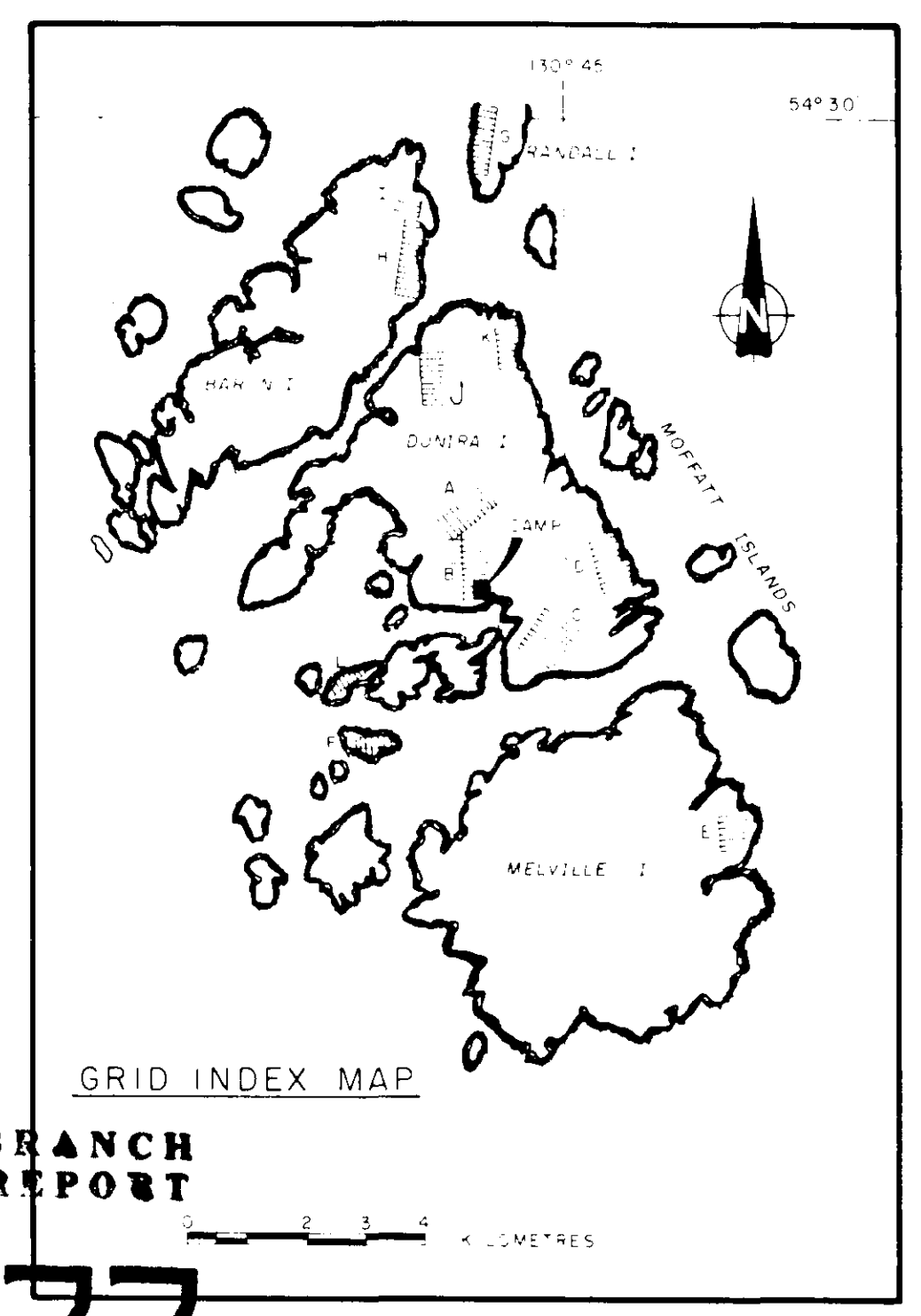
12,777  
 part 2  
 of 3

BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND BC. NTS 103-J/7	
GRID J	
VLF-EM SURVEY	
50 0 100 200 METRES	
BY: M. CARR / rwr	MAP NO. J-3b
DATE: AUG., 1984	



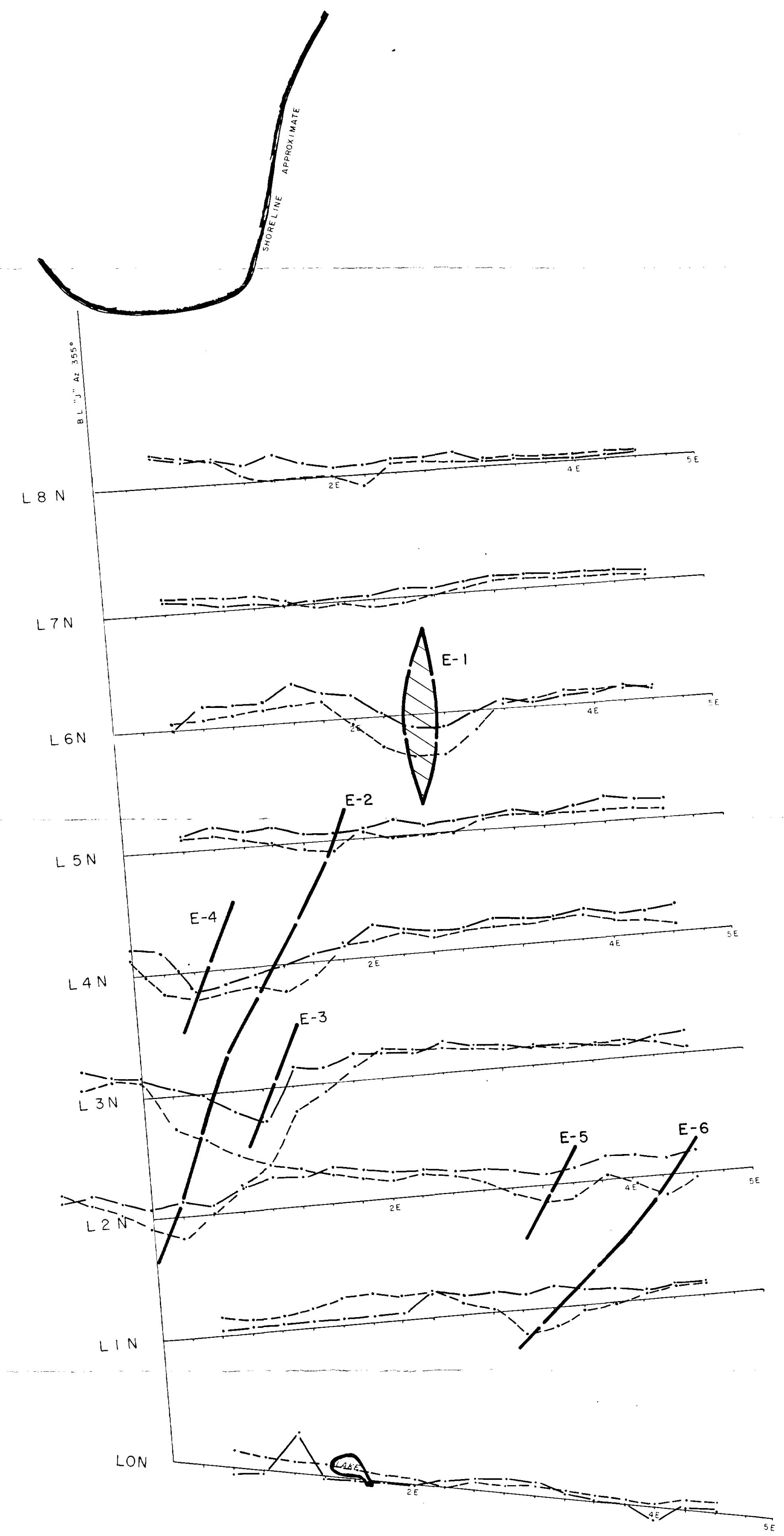
LEGEND:  
 INSTRUMENT: MAX-MIN 2  
 COIL SEPARATION = 100 METRES  
 CORRECTED FOR TOPOGRAPHY

10% — IN-PHASE  
 0 —  
 -10% — OUT OF PHASE



GEOLOGICAL BRANCH  
 ASSESSMENT REPORT  
 12,777

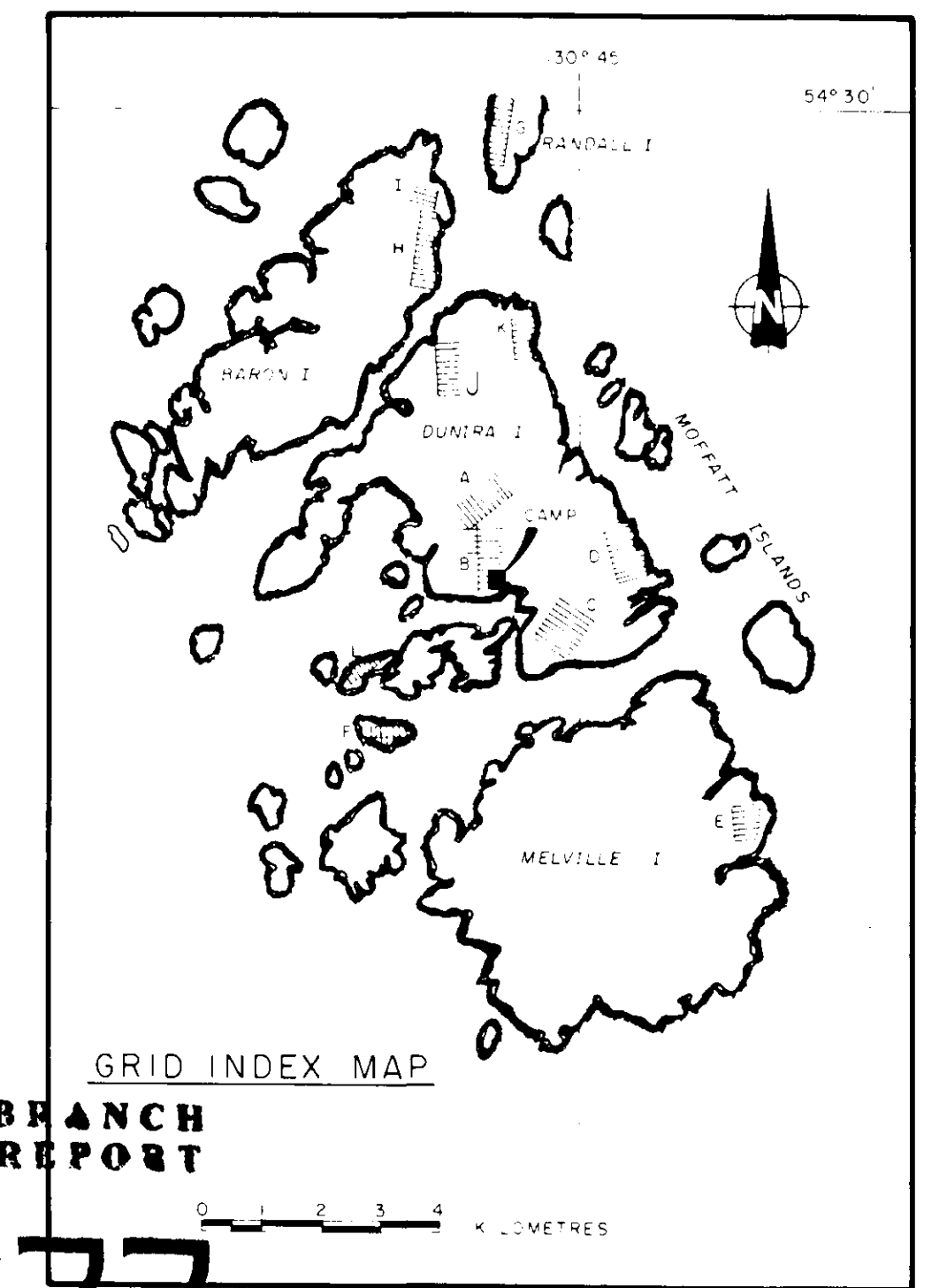
BILLITON CANADA LTD.	
COAST COPPER PROJECT	
DUNIRA ISLAND BC.	NTS 103-J/7
<b>GRID J</b>	
HORIZONTAL LOOP EM-SURVEY	
OP 444 Hz	
50 0 100 200 METRES	
BY: M. CARR / rwr	MAP NO. J-3c
DATE: AUG. 1984	



LEGEND:  
 INSTRUMENT: MAX-MIN 2  
 COIL SEPARATION = 100 METRES  
 CORRECTED FOR TOPOGRAPHY

10% IN-PHASE  
 0  
 -10% OUT OF PHASE

E-1 EM CONDUCTOR



GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

**12,777**

BILLITON CANADA LTD.

COAST COPPER PROJECT  
 DUNIRA ISLAND BC NTS 103-J/7

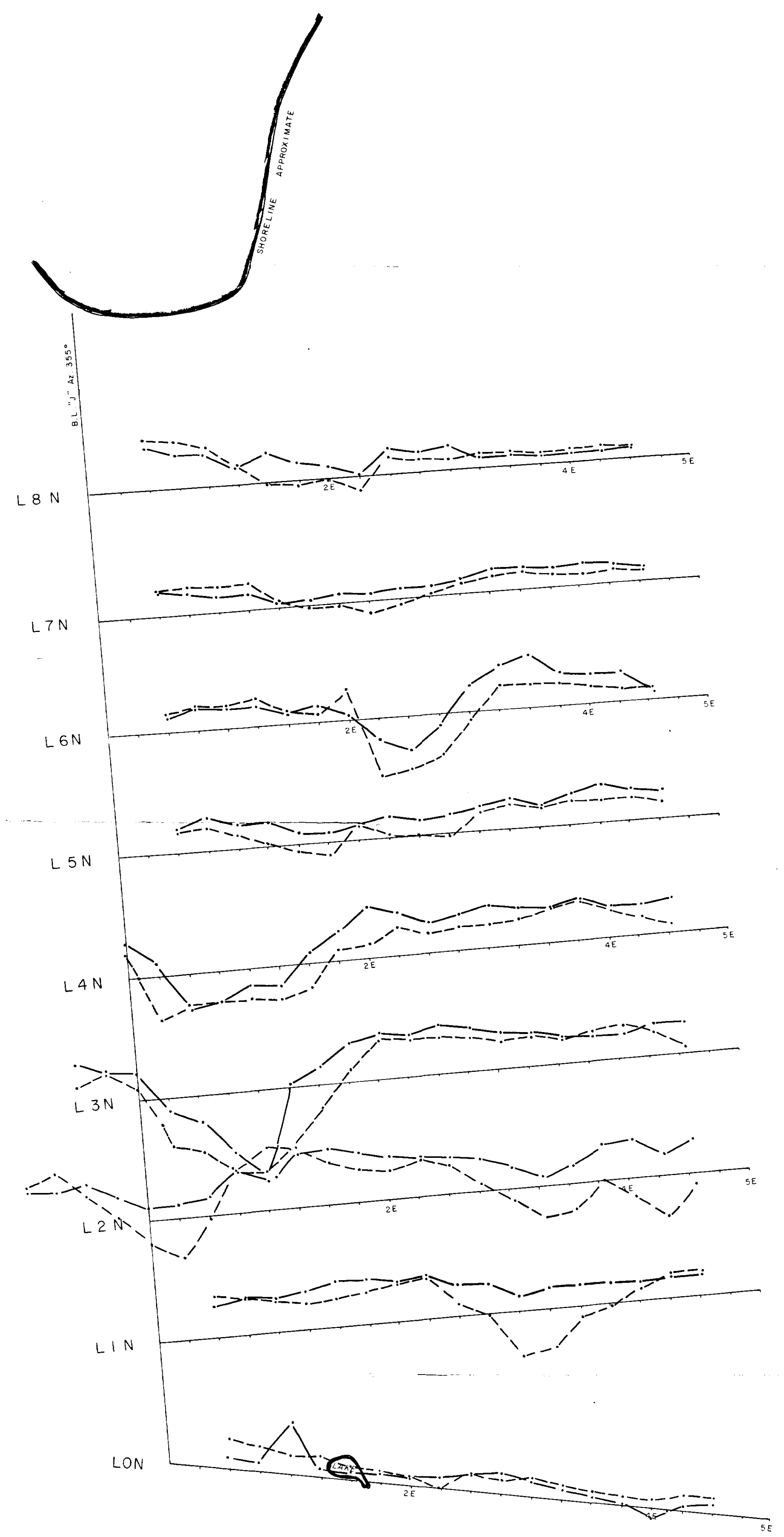
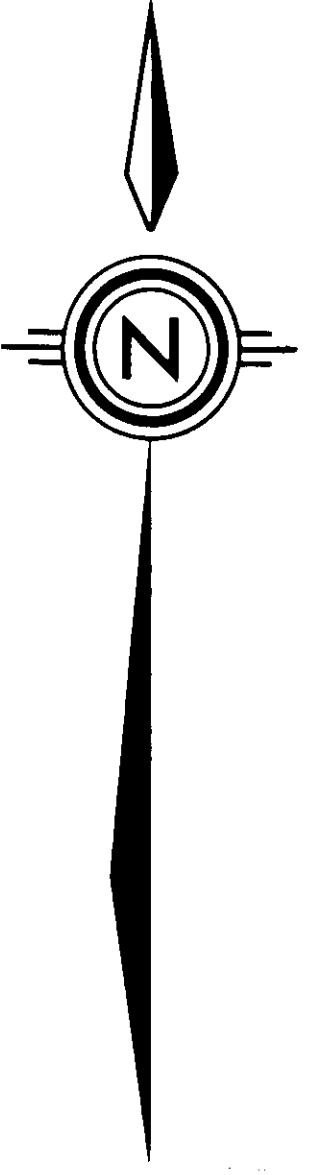
**GRID J**

HORIZONTAL LOOP EM-SURVEY  
 OF 1777 Hz

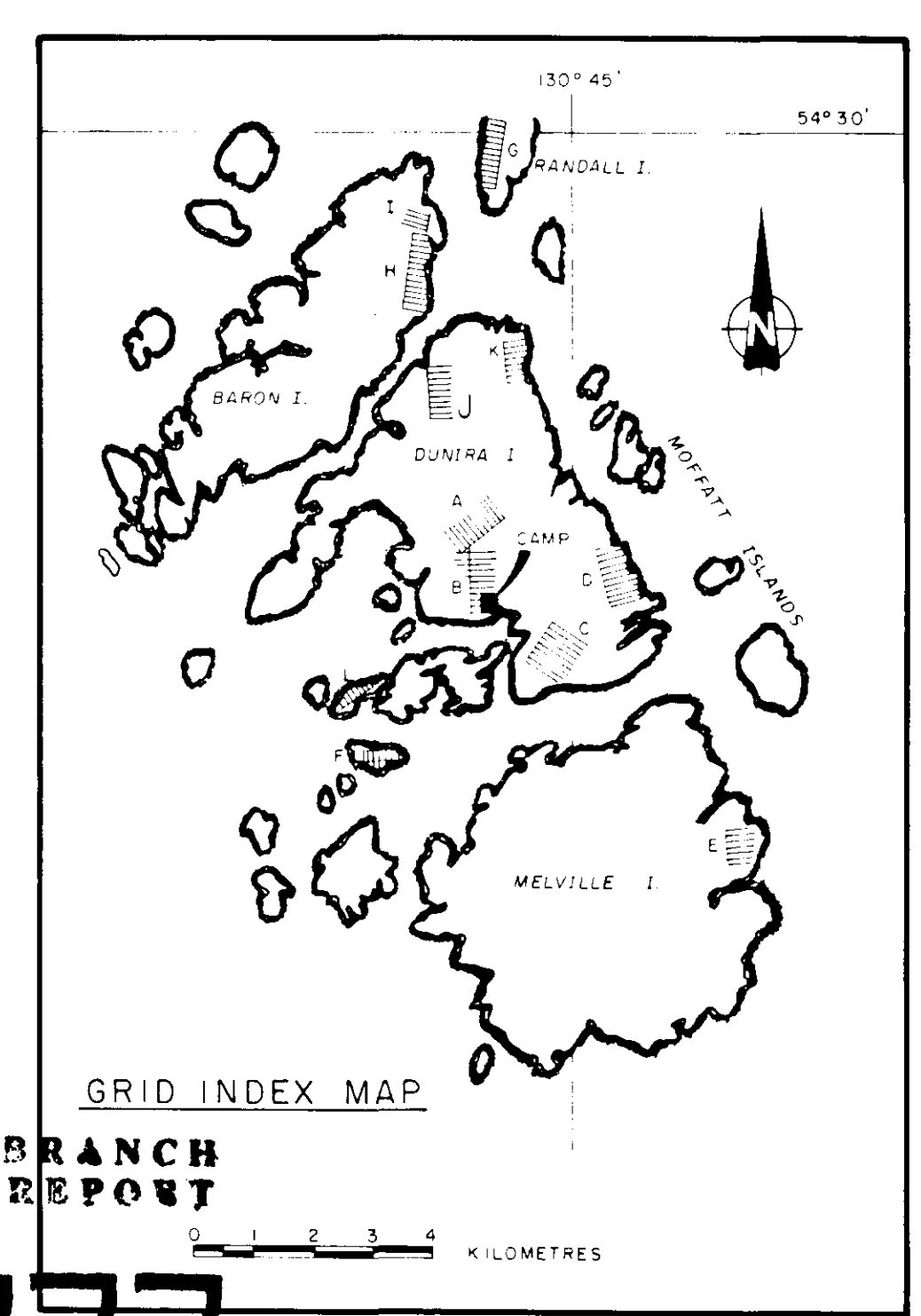
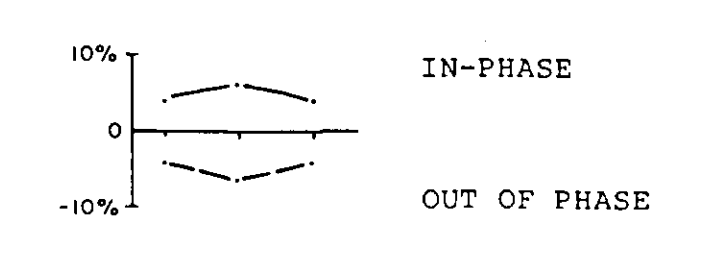
50 0 100 200 METRES

BY M CARR / rwr  
 DATE AUG, 1984

MAP NO. J-3d



LEGEND:  
 INSTRUMENT: MAX-MIN 2  
 COIL SEPARATION = 100 METRES  
 CORRECTED FOR TOPOGRAPHY



GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

12,777

BILLITON CANADA LTD.

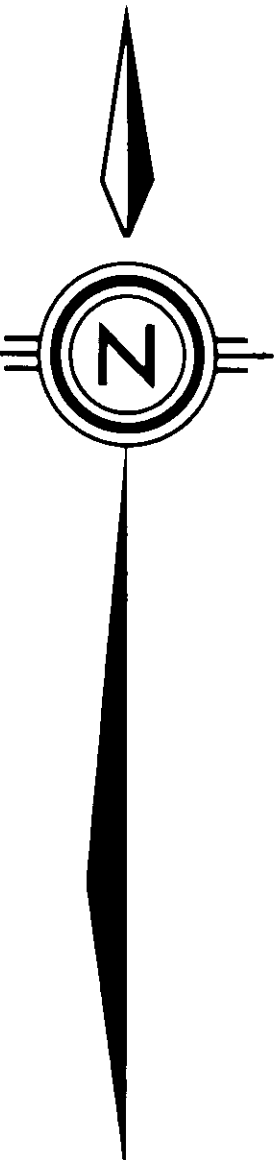
COAST COPPER PROJECT  
 DUNIRA ISLAND B.C. NTS 103-J/7

GRID J  
 HORIZONTAL LOOP EM-SURVEY  
 OP 3555 Hz.



BY: M. CARR / rwr  
 DATE: AUG., 1984

MAP NO. J-3e



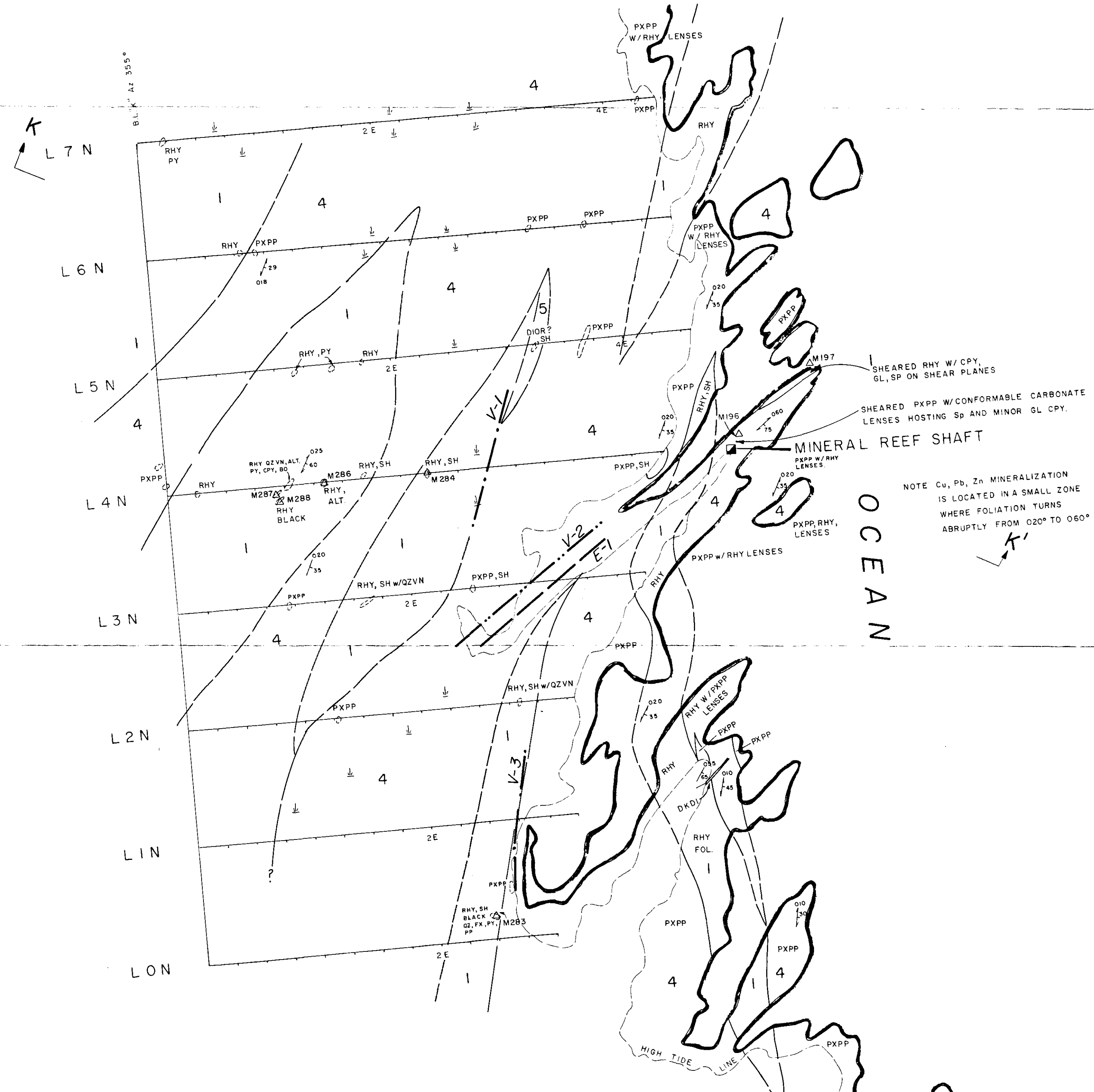
**LEGEND**

UNIT	DESCRIPTION
6	GRANODIORITE and GRANODIORITE SILLS: Massive sills are locally strongly pyritic Map Symbols - GRDA, DISP
6a	HORNfelsED SEDIMENTS of Unit 2, adjacent to sills. Map Symbol - SULI
5	DIORITE SILLS, DYKES and PLUTONS: Variable mafic content, foliated Map Symbols - DDM, DDI, DDM, DIOR, QD DIOR
4	MAFIC FLOWS and SILLS: Pyroxene porphyry and biotite porphyry crystal lapilli tuffs and flows, agglomerates and minor pyroxenite sills Map Symbols - PAPP, BIPP
3	GRAPHITIC SHALES: Slaty, pyritic zones forms lenses within Unit 2, occasional chert Map Symbols - PHGR, SEDC GR, SHALE
2	CHEMICAL and CLASTIC SEDIMENTS: cherts, pyritic cherts, siltstones, sedimentary and volcanic phyllites, chert pebble conglomerates, volcanogenic sediments, sandstones, siltstones Map Symbols - SUDC, SULS, SEDA, PHSD, PHVC, SAND, CCLS, SDVC, SST, SILT
1	FELSIC TUFFS: Rhyolite or andesite crystal tuffs. Map Symbols - TRAY, TRAN, RHY, TPOC, TAPP

Geological Contact		ROCK SAMPLE LOCATION	
—	observed	△	ROCK SAMPLE LOCATION
- - -	approximate	○	Approximate shape and position of mapped outcrop
- · - · -	assumed	▨	Alteration Zone
—	Fault		
—	Thrust Fault		
—	HLEM or VLF-EM Conductor - weak (E)		
—	VLF-EM Conductor - moderate (V)		
—	VLF-EM Conductor - strong (V)		
—	Anticlinal Axis		
—	Synclinal Axis		
—	Overtuned Anticlinal Axis with dip of axial plane and plunge of hinge line		
—	Strike and dip of bedding		
—	Strike and dip of foliation		
—	Azimuth and plunge of lineation		

**MINERAL ABBREVIATIONS AND NOTATIONS**

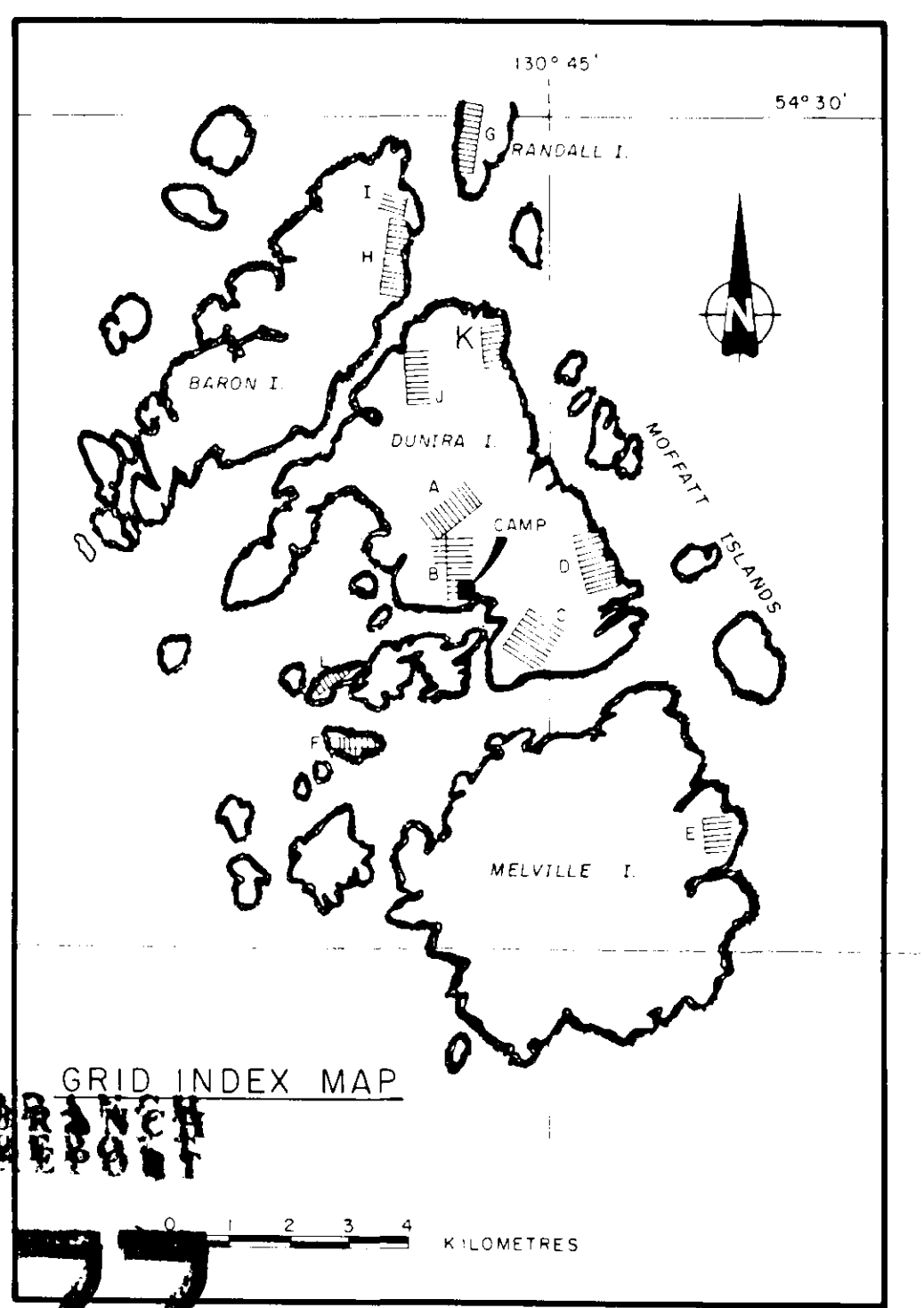
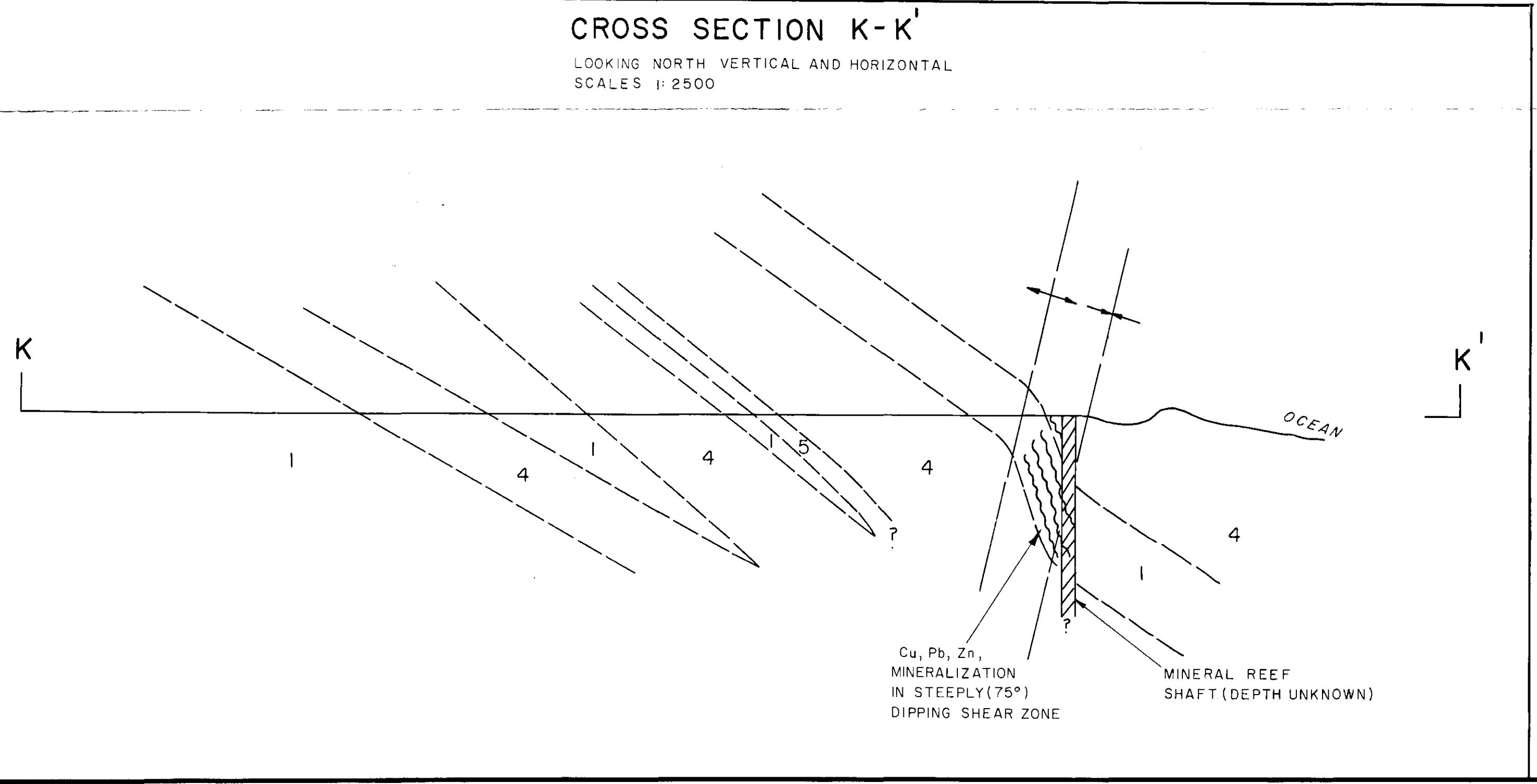
ALT	alteration	LAM	laminated
BI	biotite	MF	mafic
BLK	black	MS	sericite
BO	hornite	MU	muscovite
BRX	breccia	PS	pyroxenite
CB	calcite	PP	phenocrysts
CL	chlorite	PX	pyroxene
CP	chalcopryite	PY	pyrite
DC	dacite	QT	quartz
FOL	foliated	SEP	serpentine
GL	galena	SH	sheared
GR	graphite	SIC	silicious
GS	grey sulphide	SIF	silicified
GY	grey	SP	sphalerite
HB	hornblende	VN	vein
KA	kaolinite		



**ROCK GEOCHEMISTRY**

SAMPLE NUMBER	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)
M283	16	16	84	0.4
M284	5	14	25	0.1
M285	4	7	30	0.1
M287	5	10	45	0.1
M288	6	10	58	0.1
M196	0.115	0.18	5.80	N/A
M197	0.093	1.16	2.53	N/A

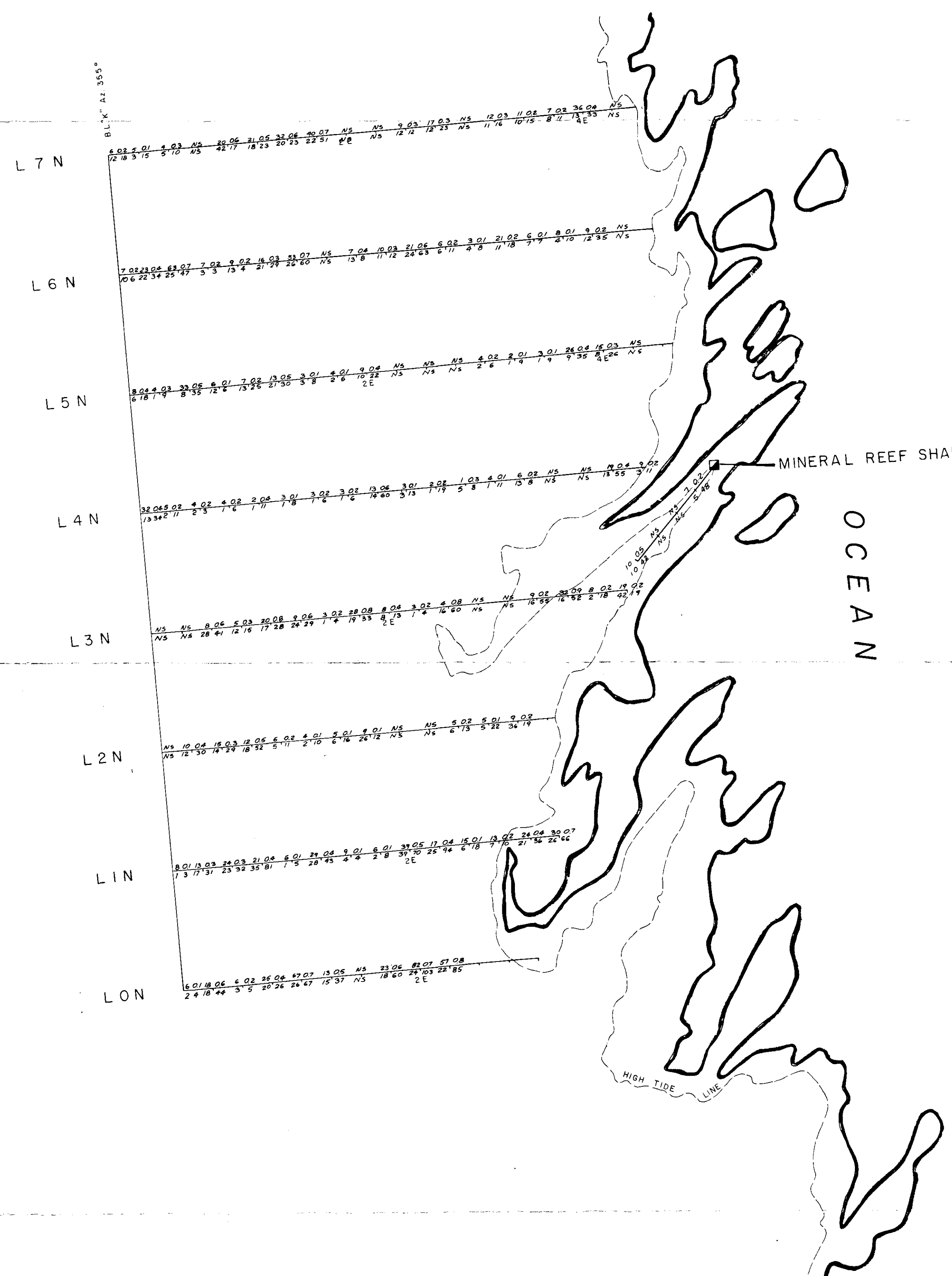
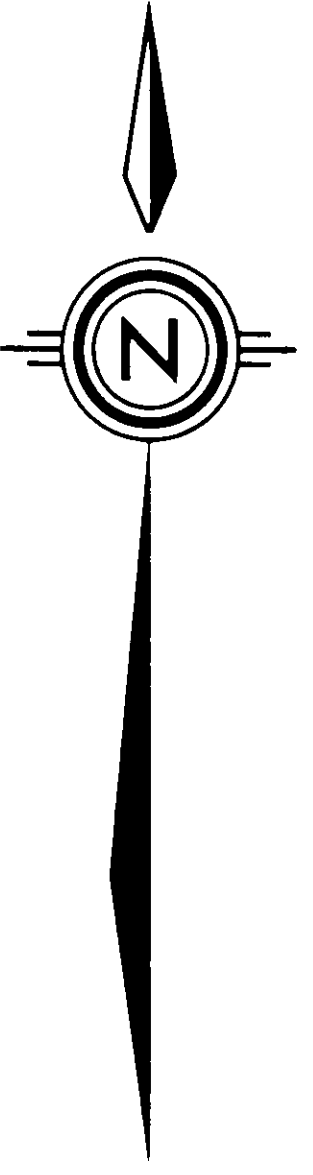
**CROSS SECTION K-K'**  
LOOKING NORTH VERTICAL AND HORIZONTAL  
SCALE 1:2500



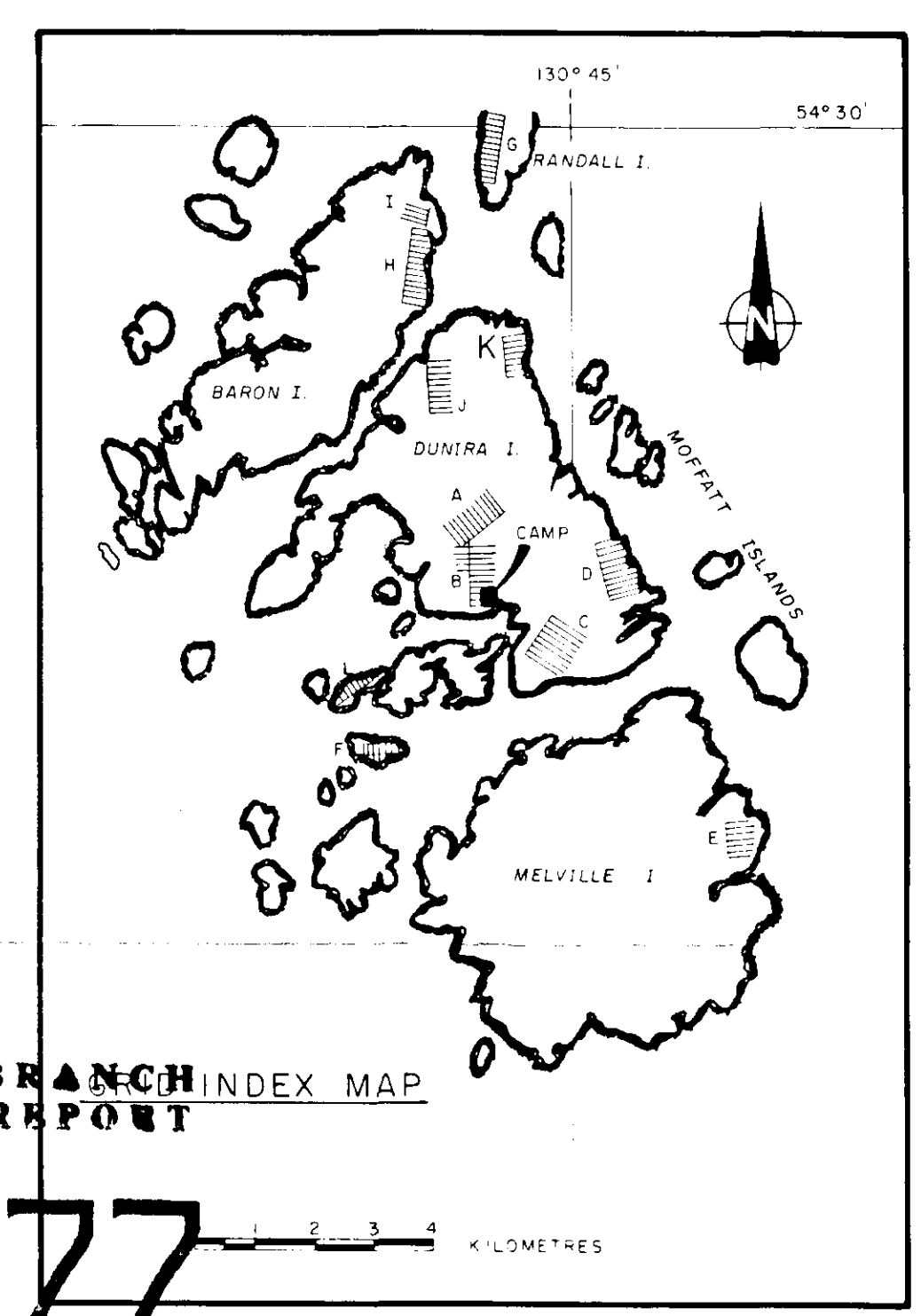
**GEOLOGICAL ASSESSMENT REPORT**  
**12,777**  
part 2 of 2

**BILLITON CANADA LTD.**  
COAST COPPER PROJECT  
DUNIRA ISLAND BC. NTS 103-J/7  
**GRID K**  
GEOLOGY MAP

BY: M CARR/rwr  
DATE: AUG, 1984  
MAP NO. K-1



LEGEND:  
 4 0.1 Cu Ag VALUES IN P.P.M.  
 12 29 Pb Zn  
 NS = NO SAMPLE TAKEN

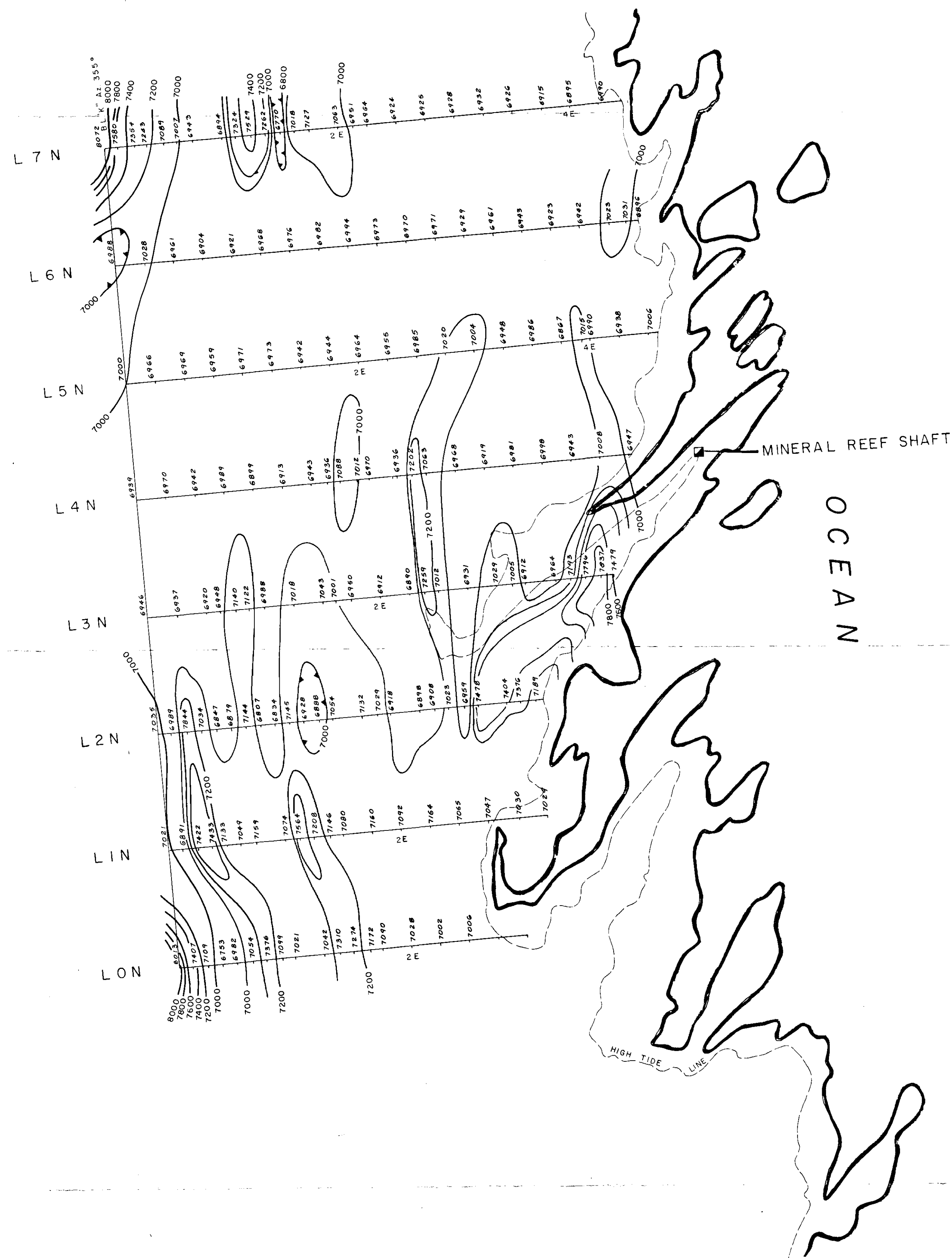
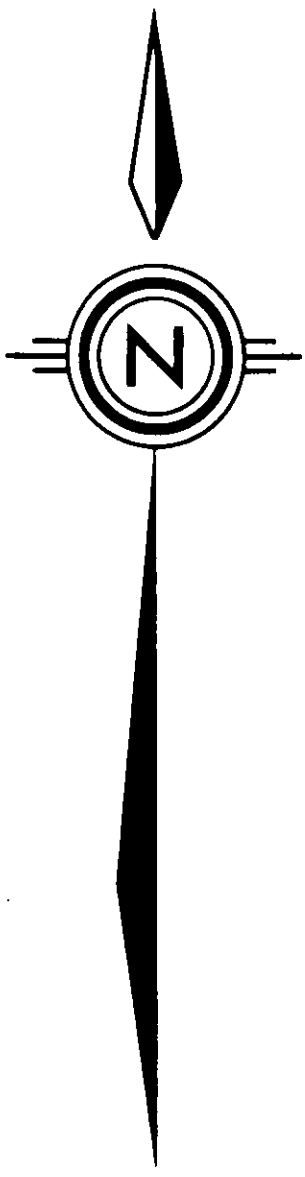


GEOLOGICAL BRANCH INDEX MAP  
 ASSESSMENT REPORT

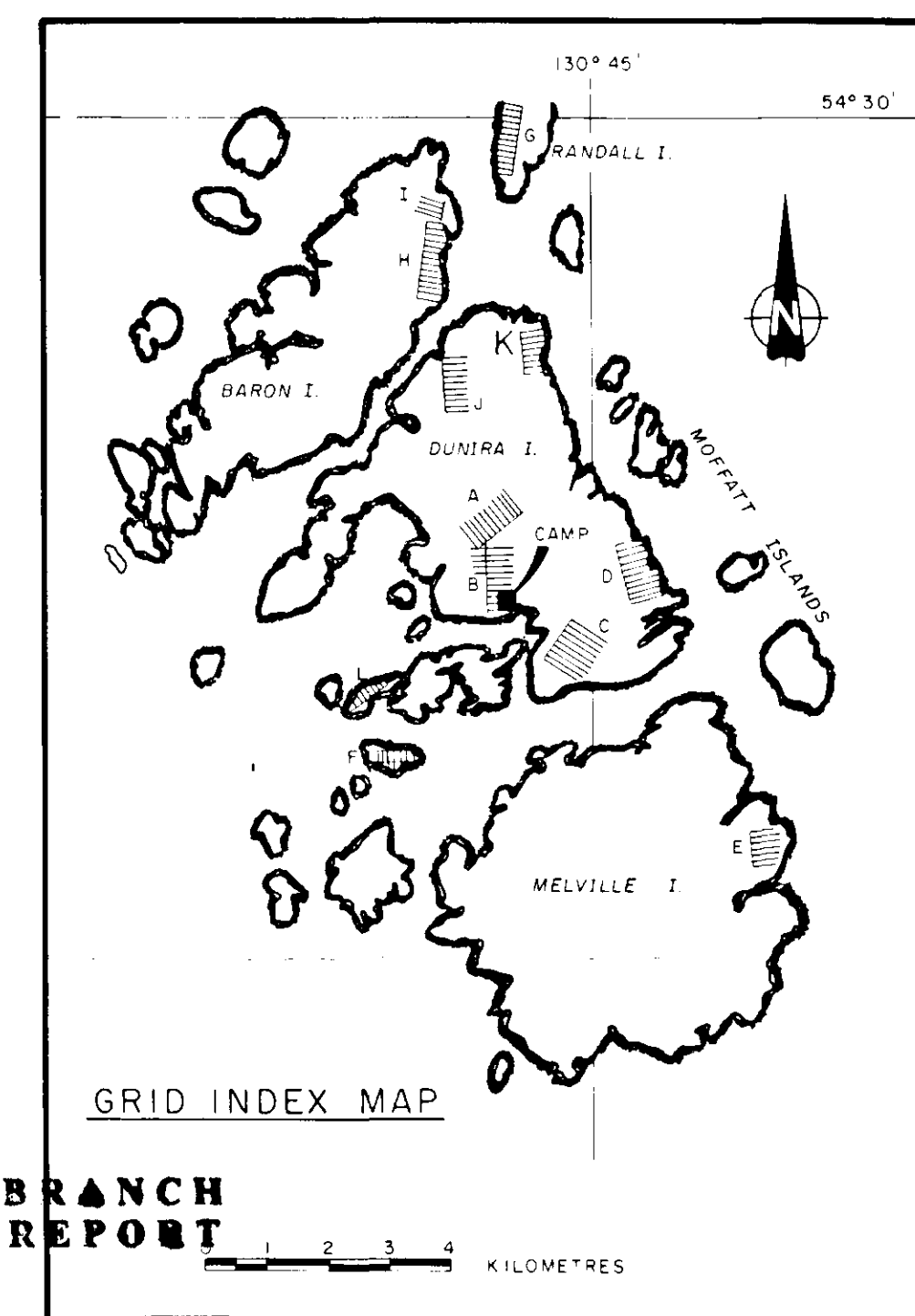
12,777

Part  
2 of 2

BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND B.C. NTS 103-J/7	
GRID <u>K</u> SOIL GEOCHEMICAL SURVEY Cu, Ag, Pb & Zn RESULTS	
50 0 100 200 METRES	
BY: M CARR /rwr DATE: AUG. 1984	MAP NO. <u>K-2</u>



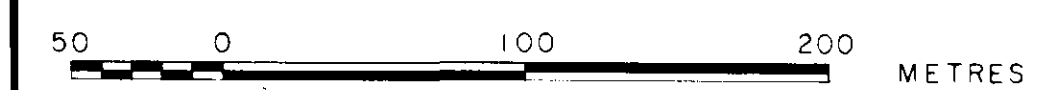
LEGEND:  
 OPERATOR - SUTHERLAND  
 INSTRUMENT : GSM-8 MAGNETOMETER  
 CONTOUR INTERVAL = 200 GAMMAS  
 NOTE: ADD 50,000 GAMMAS TO ALL VALUES



GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

**12,777**  
 Part  
 12 of 22

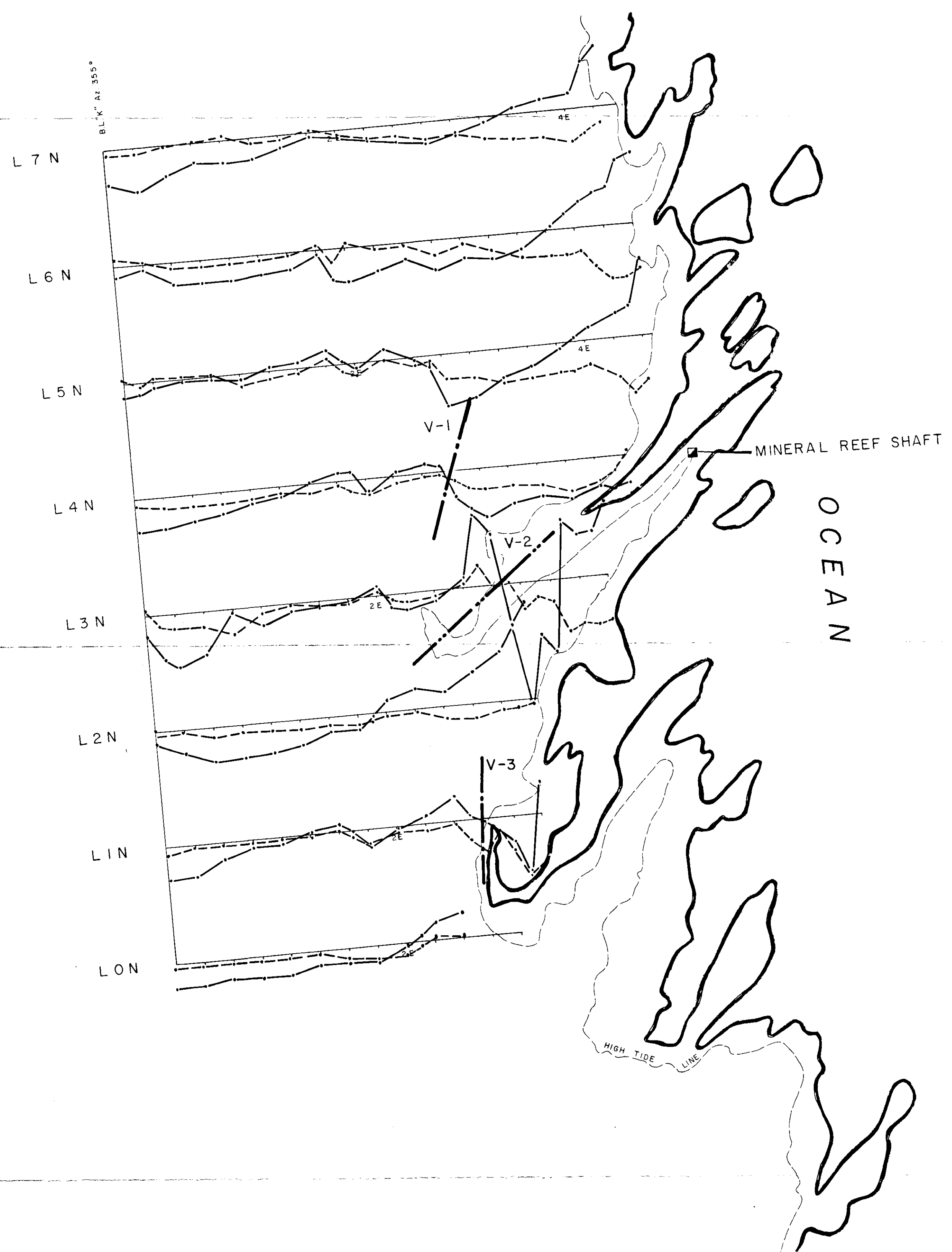
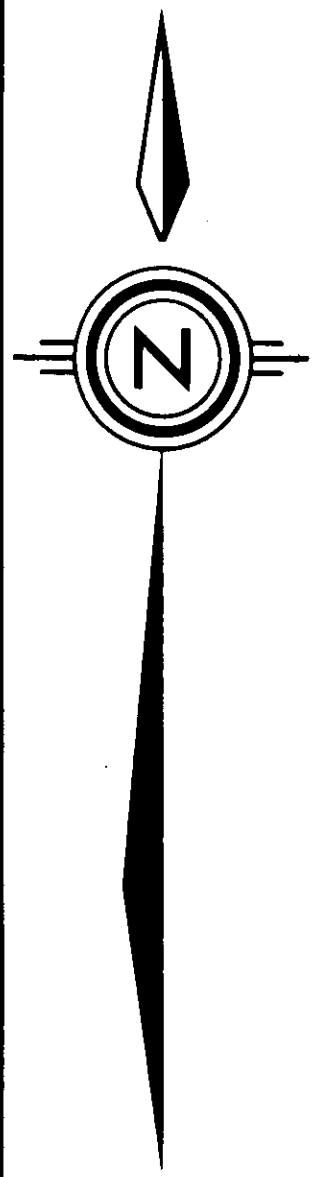
BILLITON CANADA LTD.  
 COAST COPPER PROJECT  
 DUNIRA ISLAND BC. NTS 103-J/7  
 GRID K  
 PROTON PRECESSION  
 MAGNETOMETER SURVEY



BY: M. CARR / rwr  
 DATE: AUG., 1984

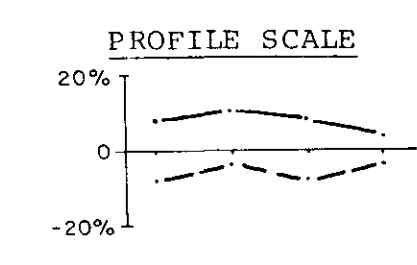
MAP NO. K-30





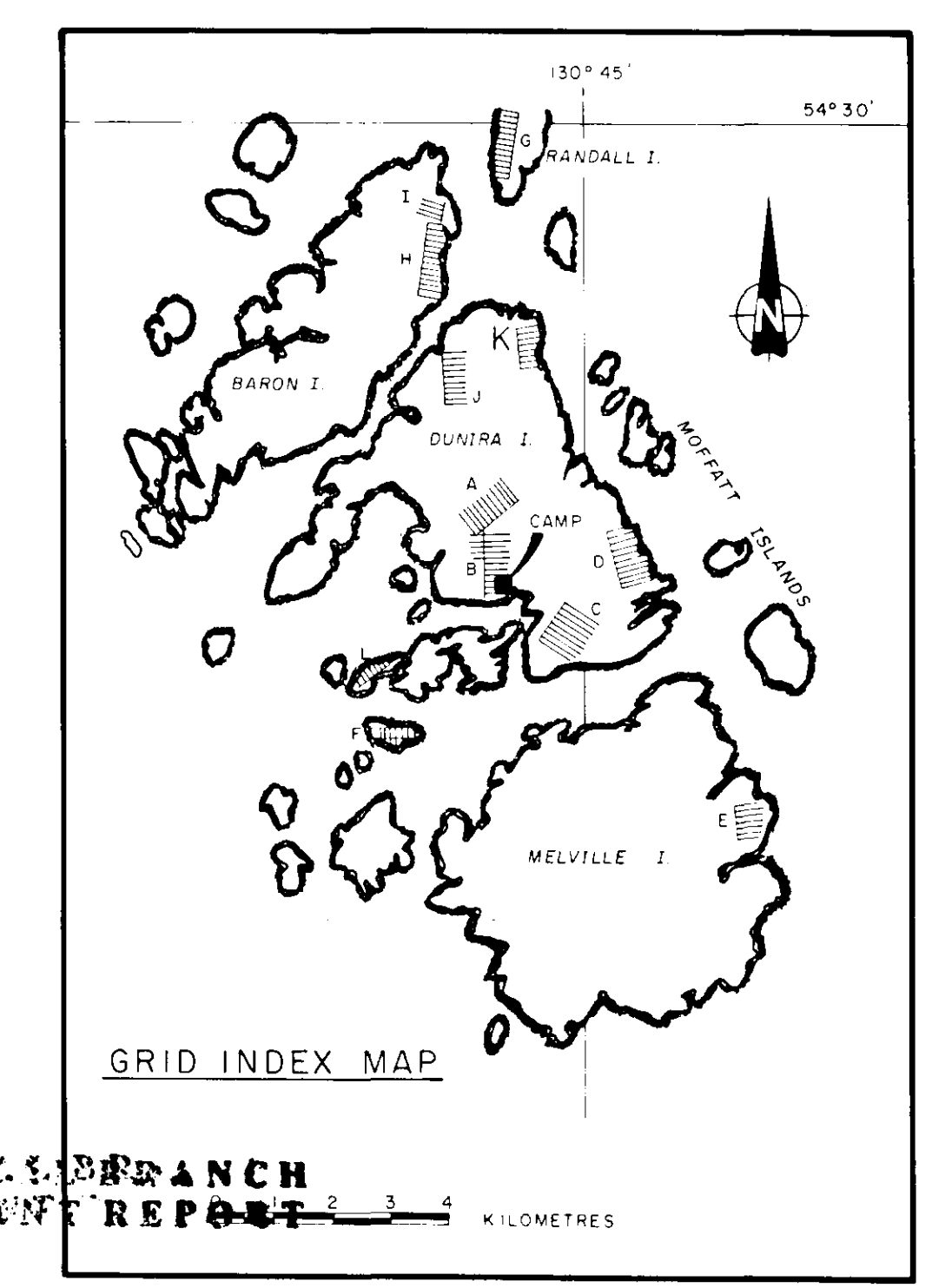
LEGEND:

INSTRUMENT: EM-16  
COIL SEPARATION = 100m  
STATION: NLK SEATTLE  
FACING EAST



IN-PHASE PROFILE  
QUADRATURE PROFILE

--- WEAK ANOMALY  
- - - MODERATELY STRONG ANOMALY



**12,777**  
*Part 2 of 2*

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

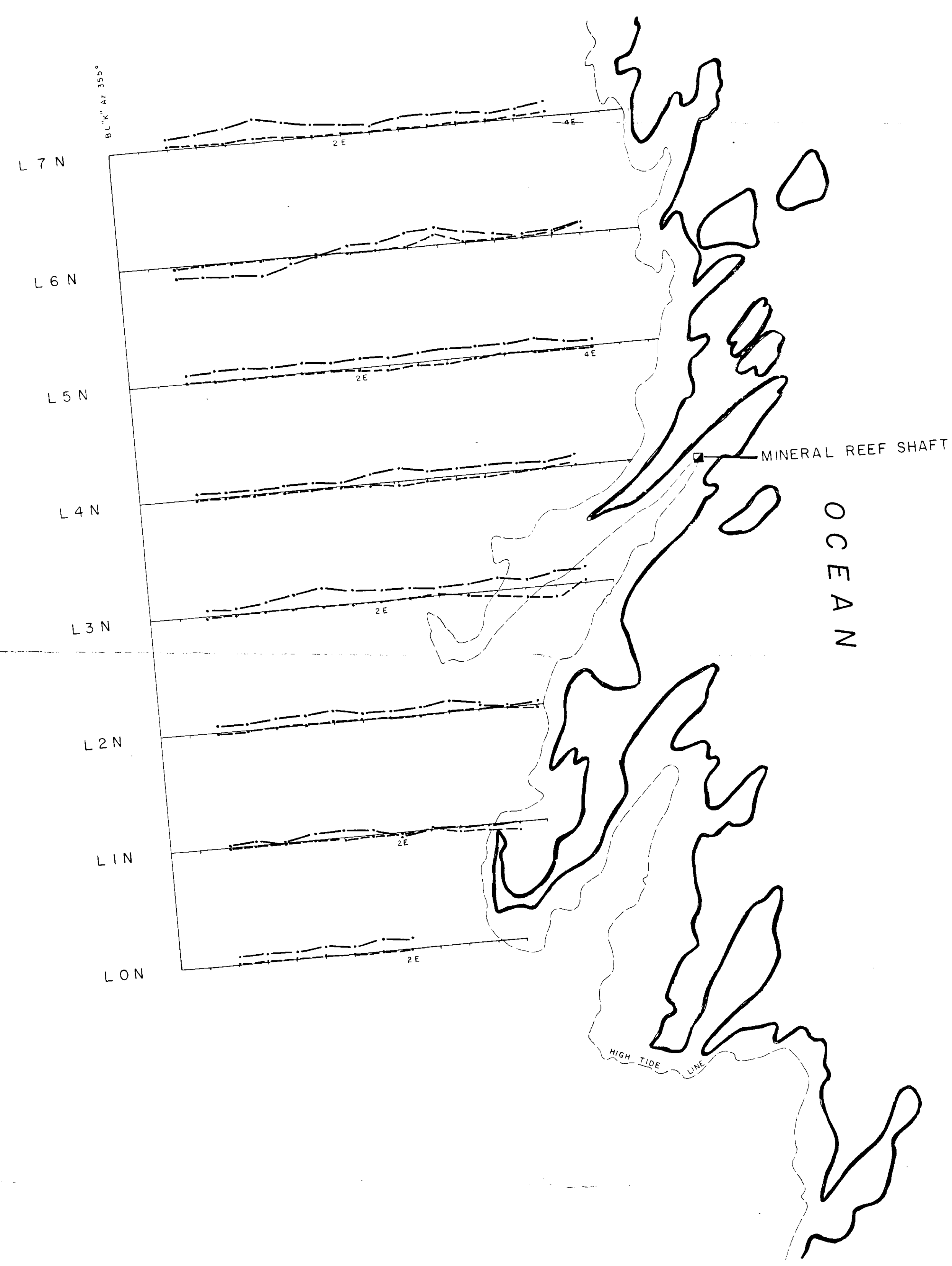
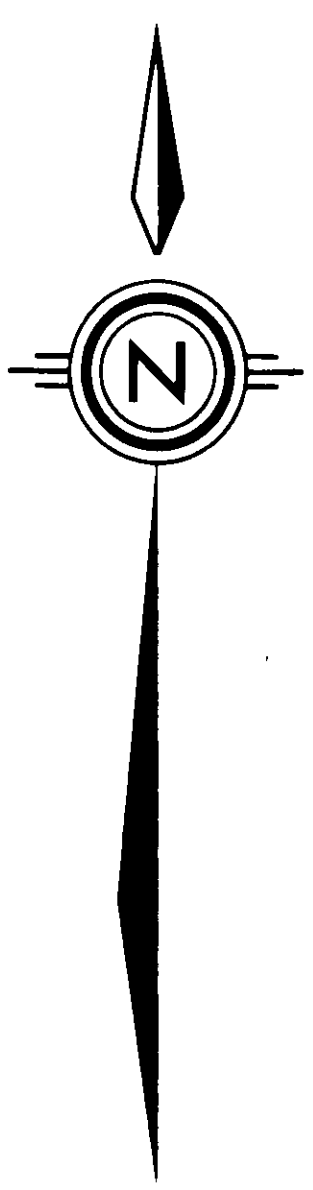
**BILLITON CANADA LTD.**  
COAST COPPER PROJECT  
DUNIRA ISLAND BC. NTS 103-J/7

**GRID K**  
VLF-EM SURVEY

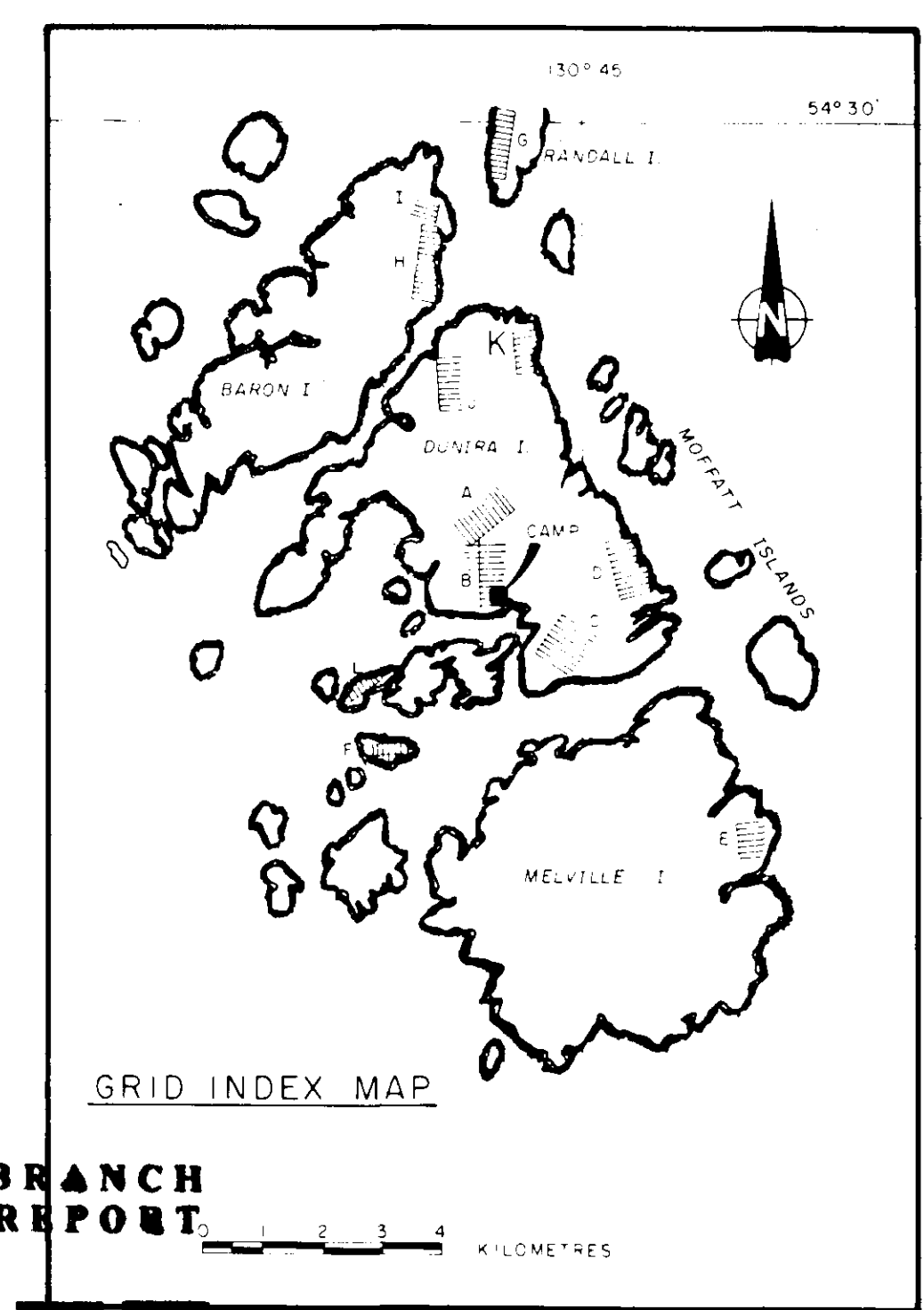
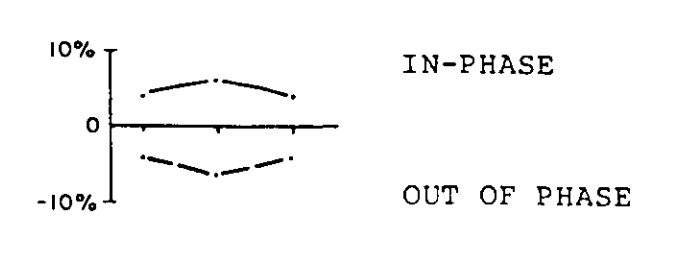
50 0 100 200 METRES

BY: M. CARR / rwr  
DATE: AUG. 1984

MAP NO. K-3b



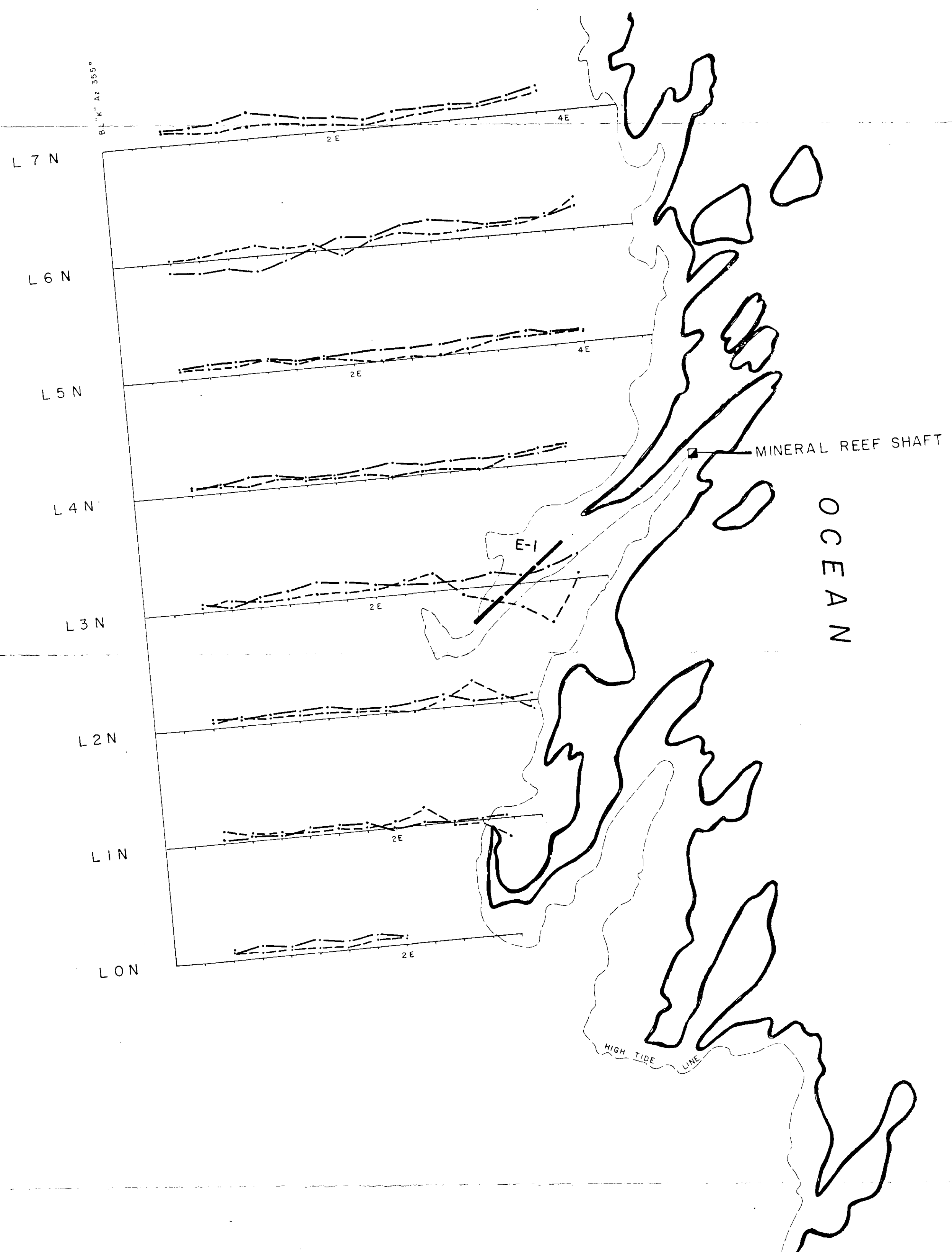
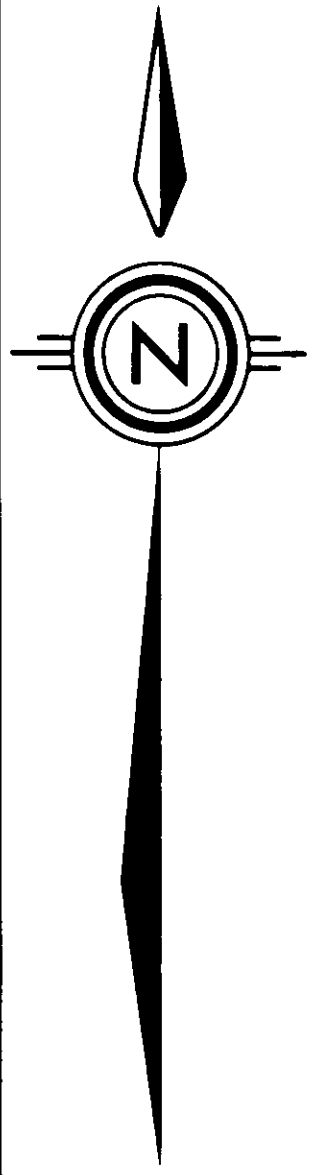
LEGEND:  
 INSTRUMENT: MAX-MIN 2  
 COIL SEPARATION = 100 METRES  
 CORRECTED FOR TOPOGRAPHY



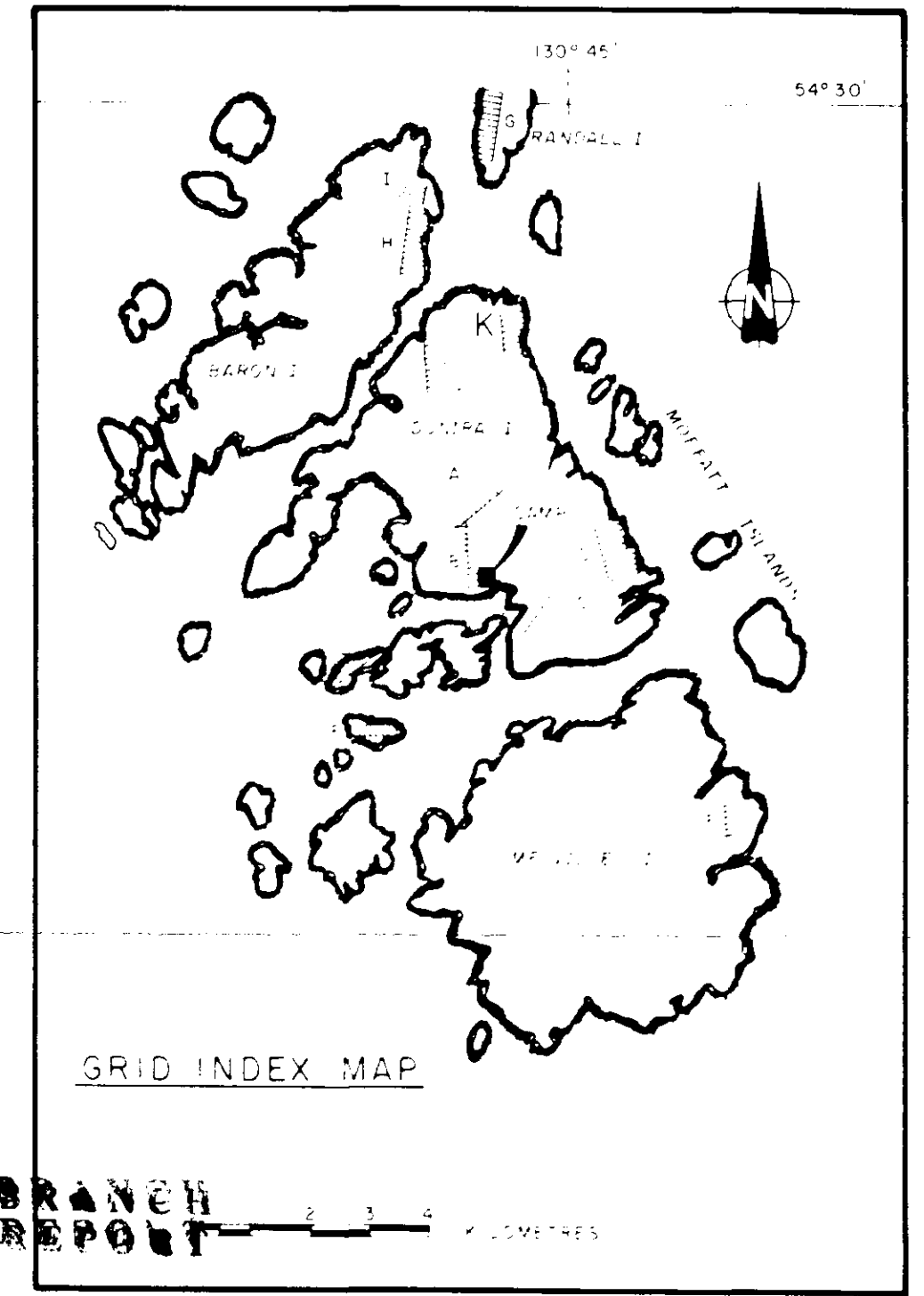
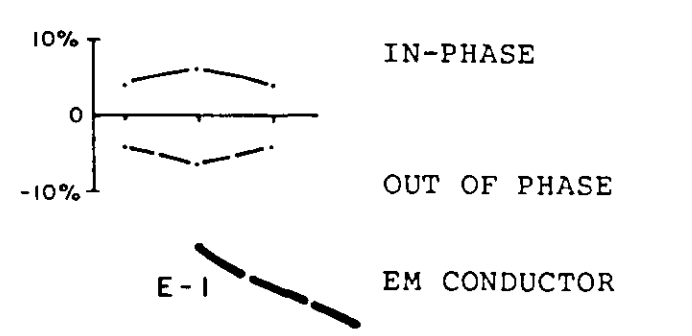
GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

12,777  
 Part 2  
 OF 2

BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND BC. NTS 103-J/7	
GRID <u>K</u>	
HORIZONTAL LOOP EM-SURVEY OP 444 Hz	
50 0 100 200 METRES	
BY: M CARR / rwr	MAP NO K-3e
DATE: AUG. 1984	



LEGEND:  
INSTRUMENT: MAX-MIN 2  
COIL SEPARATION = 100 METRES  
CORRECTED FOR TOPOGRAPHY



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**12,777**  
*part 2  
of 2*

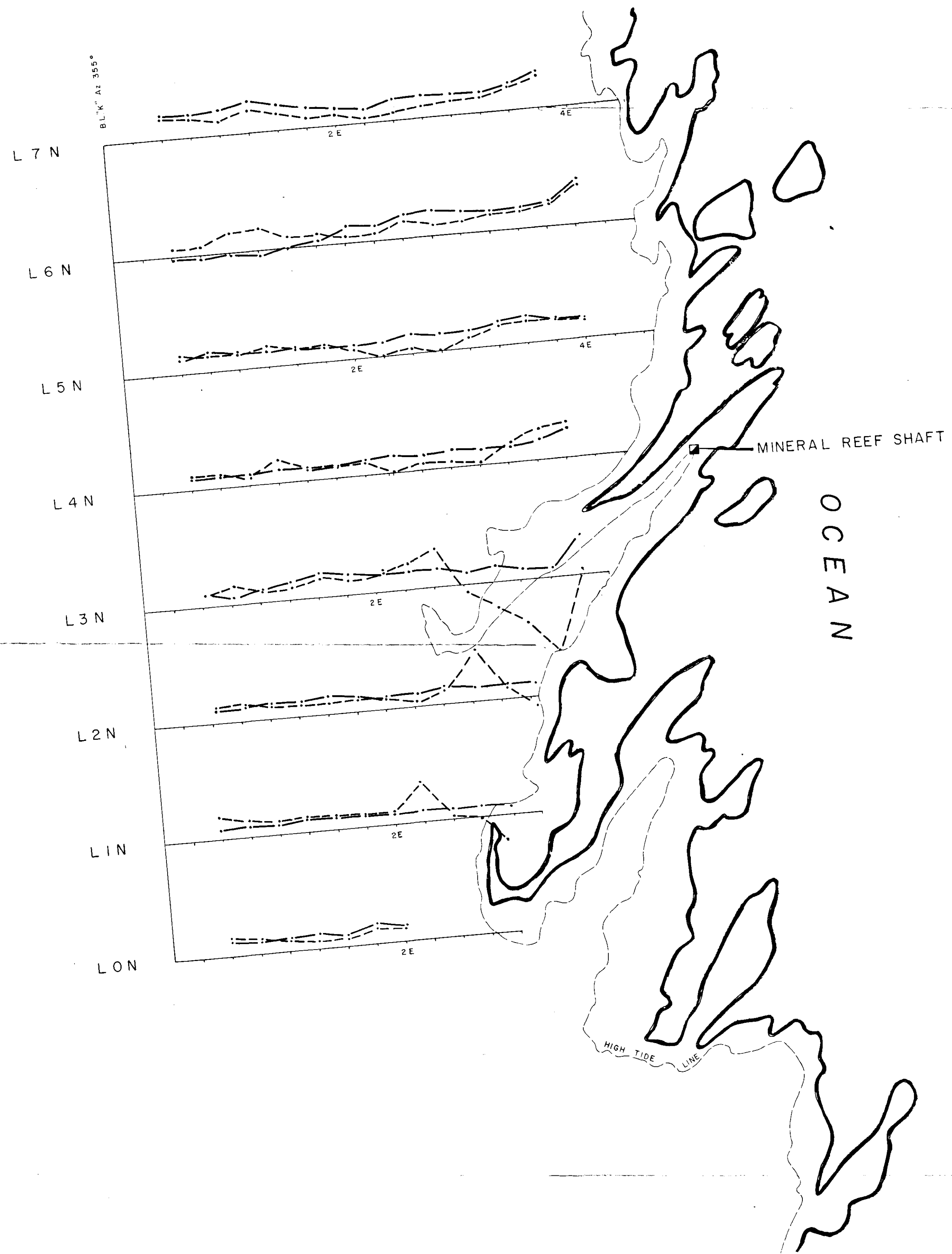
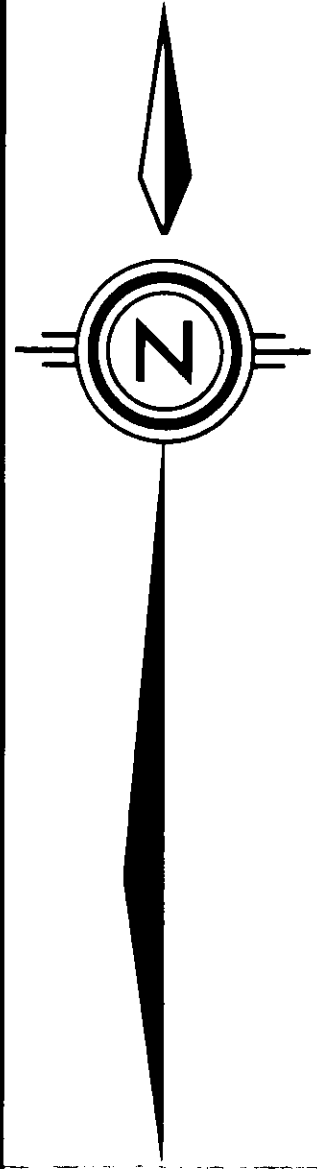
**BILLITON CANADA LTD.**  
COAST COPPER PROJECT  
DUNIRA ISLAND BC. NTS 103-J/7

**GRID K**  
HORIZONTAL LOOP EM-SURVEY  
OF 1777 HZ

50 0 100 200 METRES

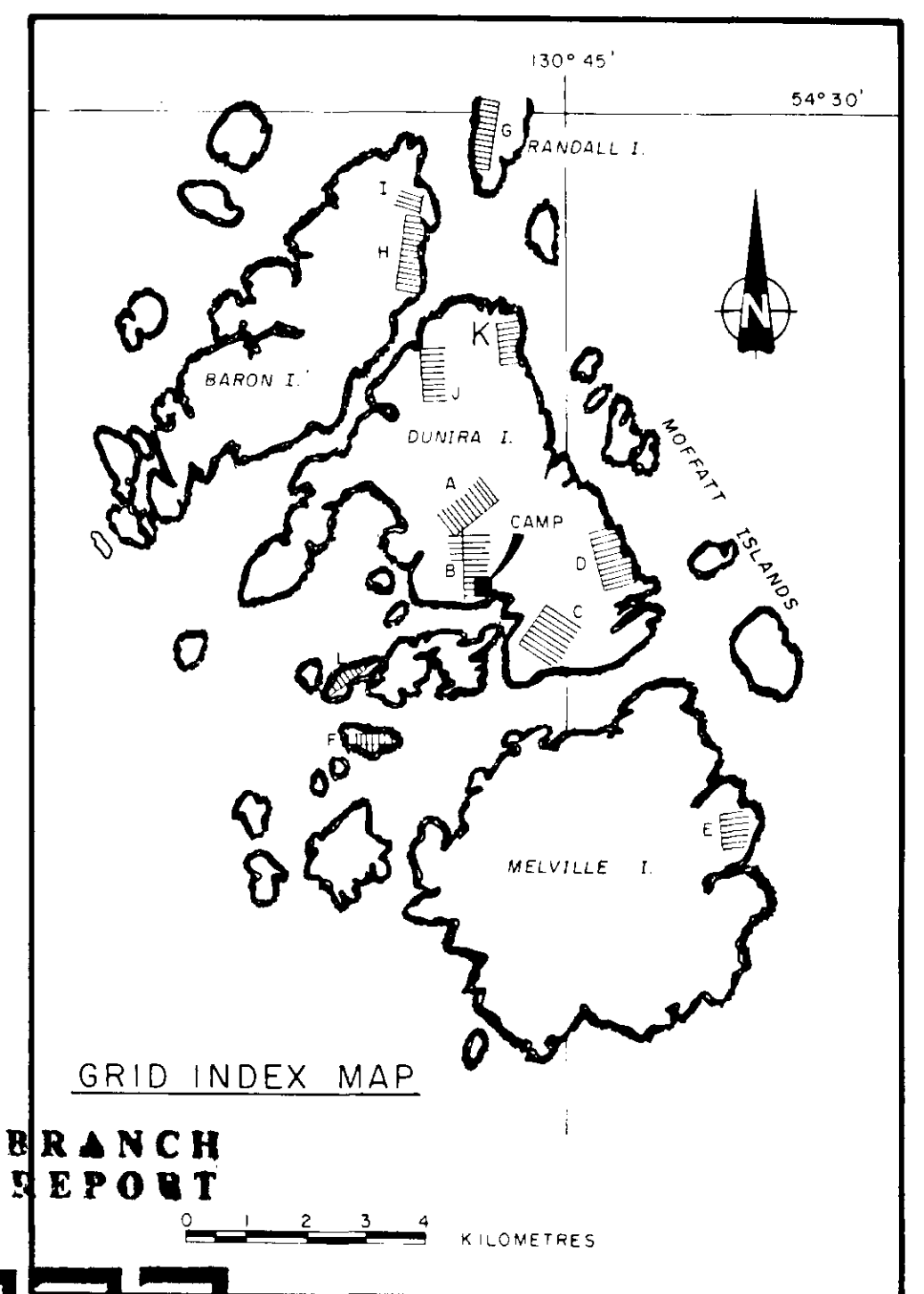
BY M CARR / ewr  
DATE AUG., 1984

MAP NO. **K-3d**



LEGEND:  
INSTRUMENT: MAX-MIN 2  
COIL SEPARATION = 100 METRES  
CORRECTED FOR TOPOGRAPHY

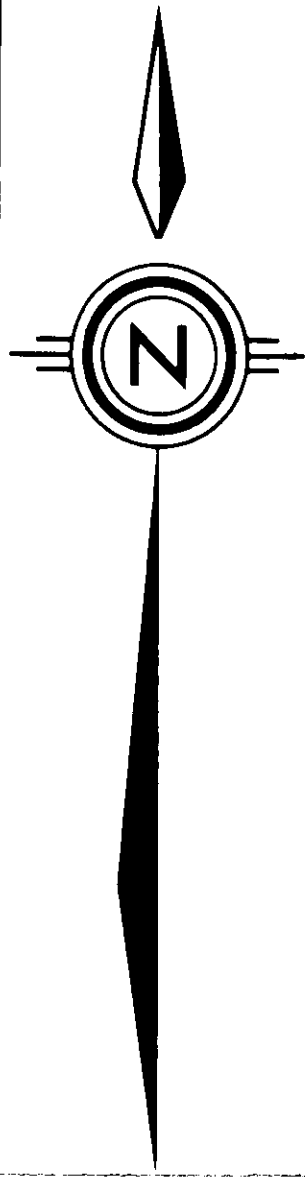
10% ——— IN-PHASE  
0 ———  
-10% ——— OUT OF PHASE



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

12,777  
part  
2 of 2

BILLITON CANADA LTD.	
COAST COPPER PROJECT DUNIRA ISLAND B.C. NTS 103-J/7	
GRID <u>K</u>	
HORIZONTAL LOOP EM-SURVEY OP 3555 Hz.	
50 0 100 200 METRES	
BY: M CARR /rwr	MAP NO. K-3e
DATE: AUG, 1984	



**LEGEND:**

UNIT	DESCRIPTION
6	GRANODIORITIC and GRANODIORITE SILLS: Massive sills are locally strongly pyritic Map Symbols - GRDR, DISF
6a	HORNfelsed SEDIMENTS of Unit 2, adjacent to sills. Map Symbol - SULL
5	DIORITE SILLS, DYKES and PLUTONS: Variable mafic content, foliated Map Symbols - DISM, DKDI, DIMP, DIOB, QT DIOR
4	MAFIC FLOWS and SILLS: Pyroxene porphyry and biotite porphyry crystal lapilli tuffs and flows, agglomerates and minor pyroxenite sills Map Symbols - PAPP, BIPP
3	GRAPHITIC SHALES: Slaty, pyritic zones, forms lenses within Unit 2, occasional chert Map Symbols - PIGA, SEDC GR, SHALE
2	CHEMICAL and CLASTIC SEDIMENTS: Cherts, pyritic cherts, siltstones, sedimentary and volcanic phyllites, chert pebble conglomerates, volcanogenic sediments, sandstones, siltstones Map Symbols - SUDC, SULS, SEDA, PRVC, SAND, CGLS, SDVC, SST, SILT
1	FELSIC TUFFS: Rhyolite or andesite crystal tuffs. Map Symbols - TFRY, TRAN, RHY, TFGC, FXPP

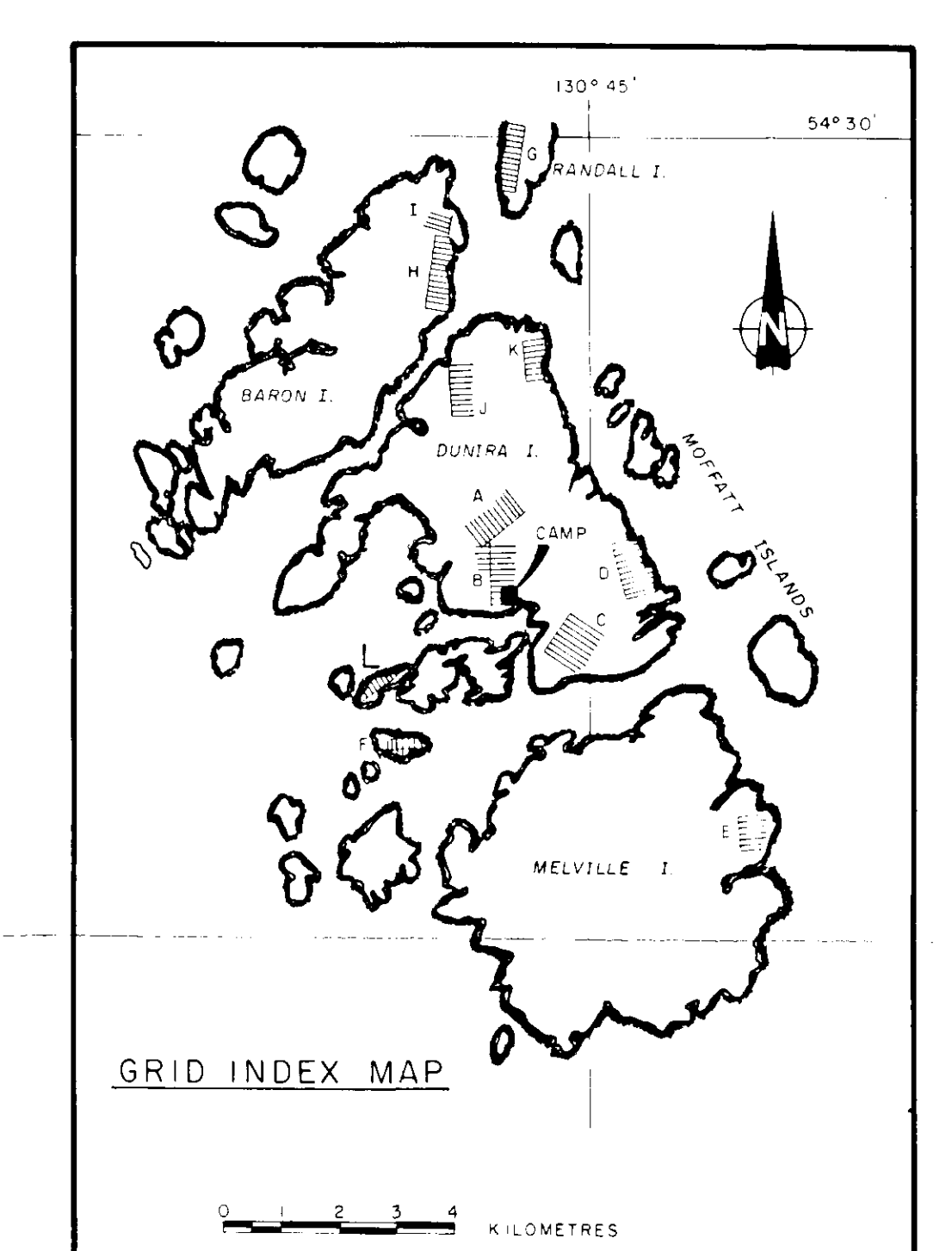
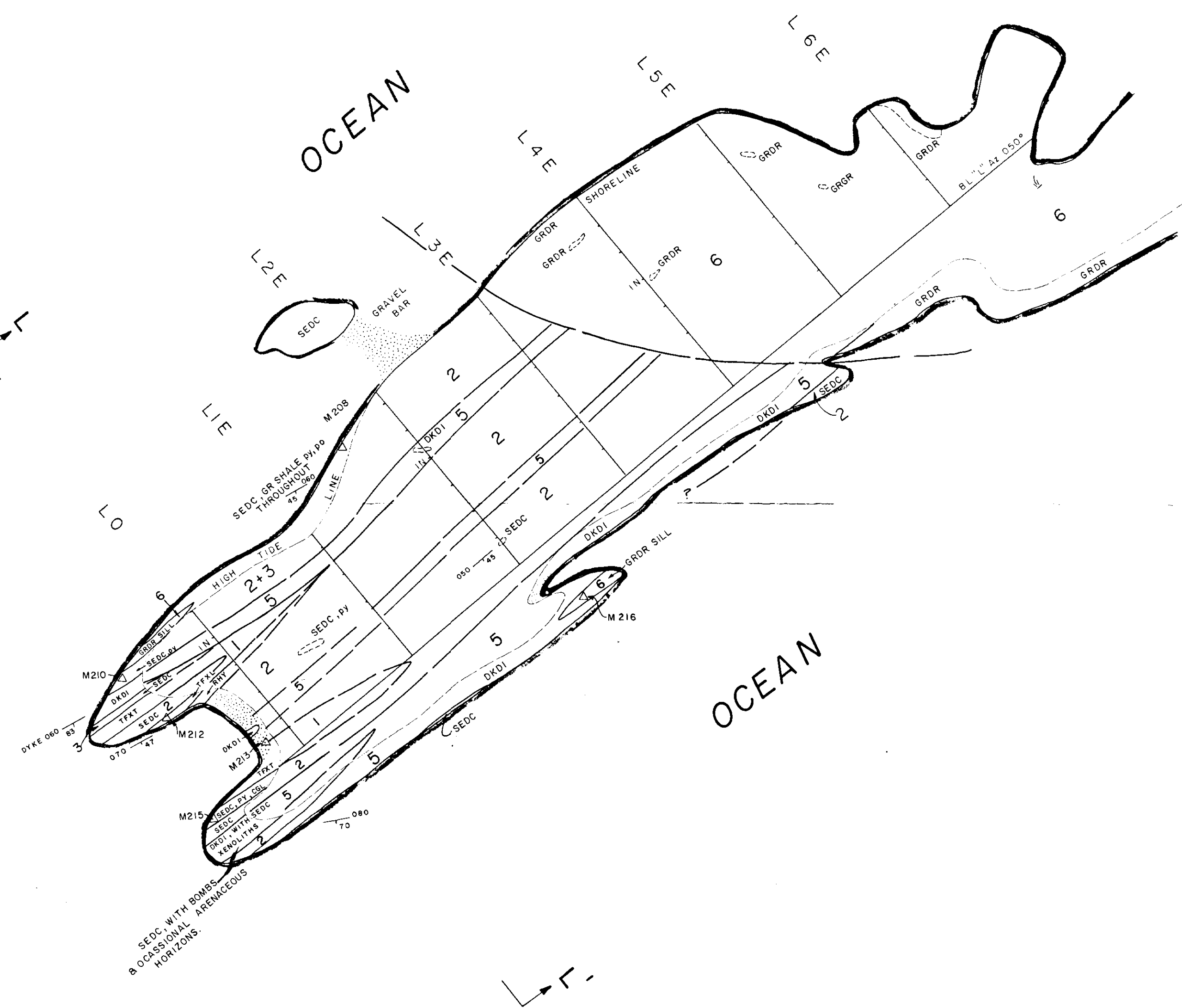
- Geological Contact - observed
- - - Geological Contact - approximate
- - - Geological Contact - assumed
- ~ Fault
- ~ Thrust Fault
- MLEM or VLP-EM Conductor - weak (E1) (V)
- VLP-EM Conductor - moderate (V)
- VLP-EM Conductor - strong (V)
- ↑ Anticlinal Axis
- ↓ Synclinal Axis
- ↗ Overturned Anticlinal Axis with dip of axial plane and plunge of hinge line
- ↘ Strike and dip of bedding
- ↘ Strike and dip of foliation
- ↘ Azimuth and plunge of lineation
- △ ROCK SAMPLE LOCATION
- Approximate shape and position of mapped outcrop
- ▨ Alteration Zone

**MINERAL ABBREVIATIONS AND NOTATIONS**

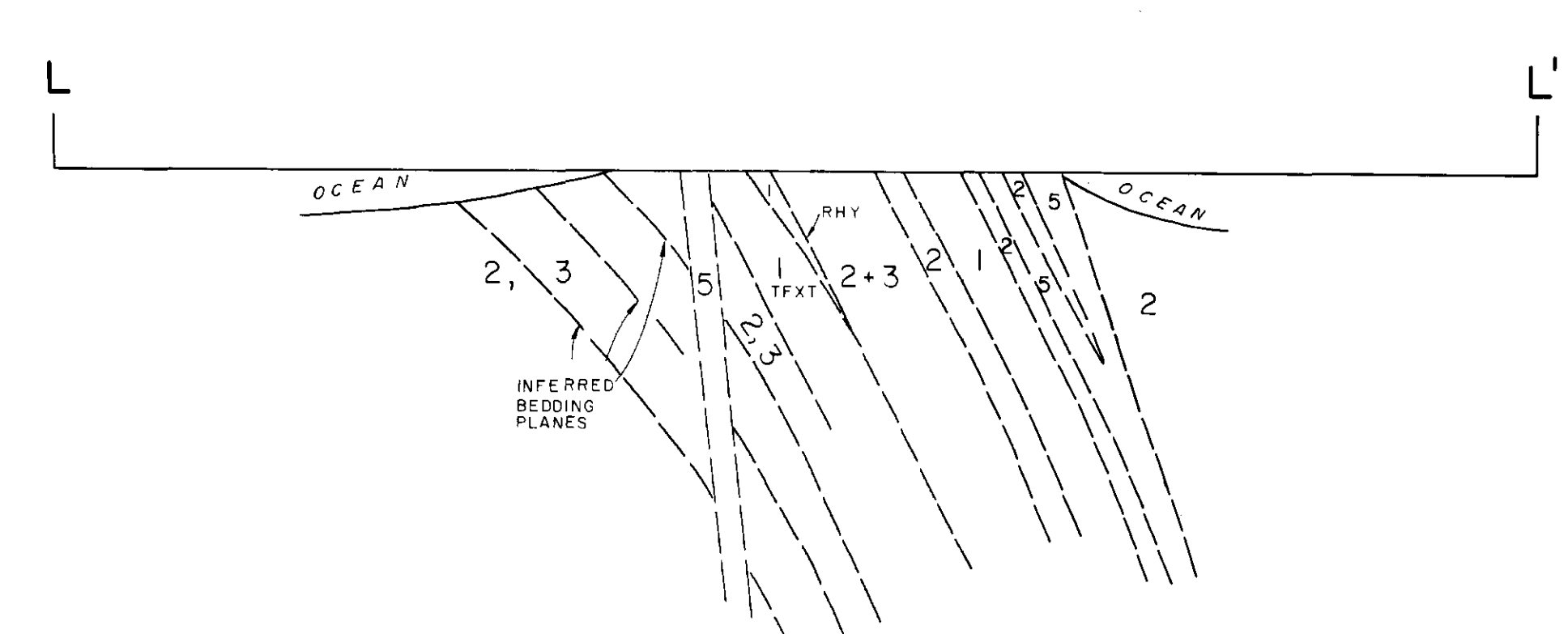
ALT	alteration	LAM	laminated
BI	biotite	MF	mafic
BLX	black	MS	sericite
BO	bornite	MU	muscovite
BRXX	breccia	PO	pyrrhotite
CH	calcite	PP	phenocrysts
CL	chlorite	PK	pyroxene
CP	chalcopyrite	PY	pyrite
DC	dacite	QT	quartz
FOL	foliated	SEP	serpentine
GL	glauc	SH	sheared
GR	graphite	SIC	silicified
GS	grey sulphide	SIP	silicified
GY	grey	SP	sphalerite
HB	hornblende	UN	vein
KA	kaolinite		

**ROCK GEOCHEMISTRY**

SAMPLE NUMBER	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)
M206	60	32	105	0.7
M210	44	17	28	0.3
M212	13	18	39	0.4
M213	48	30	98	1.3
M215	31	27	143	0.6
M216	110	14	42	0.2



**CROSS SECTION L-L'**  
LOOKING NORTHEAST VERTICAL AND HORIZONTAL  
SCALE 1:2500 TOPOGRAPHY INFERRED



**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**12.777** BILLITON CANADA LTD.

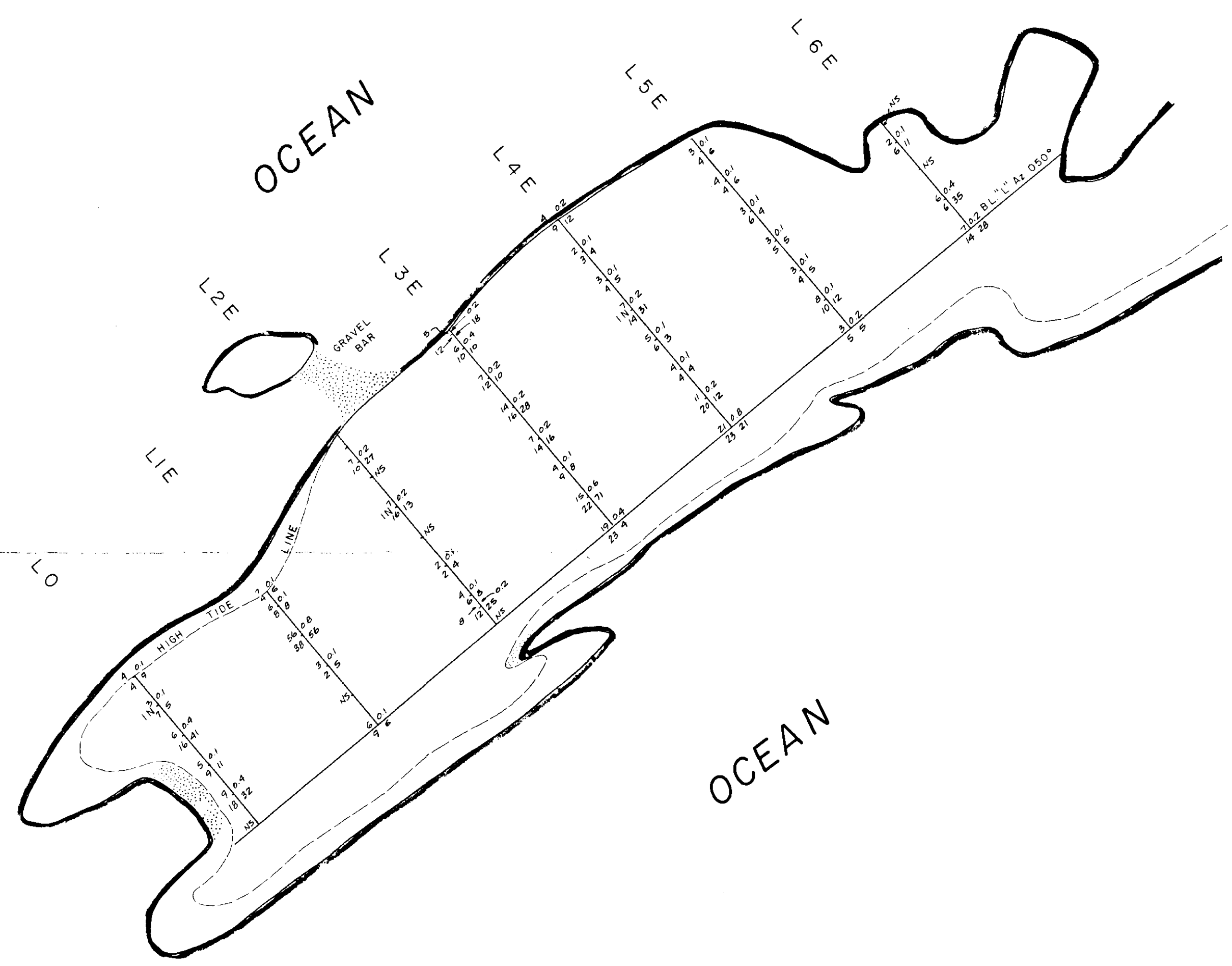
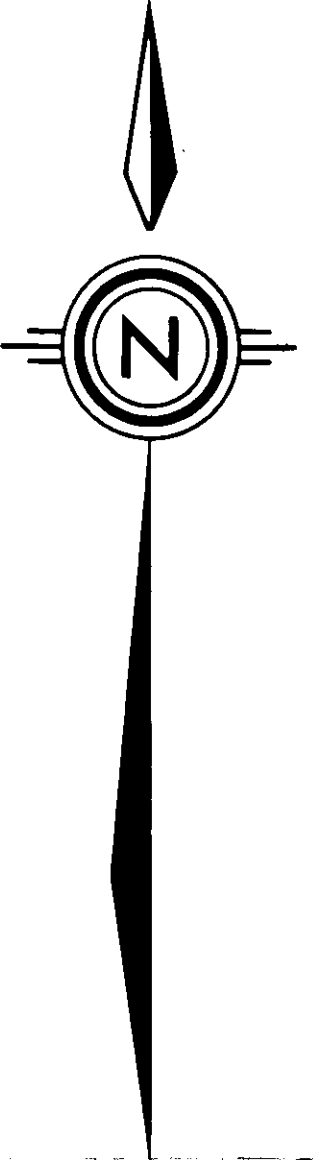
COAST COPPER PROJECT  
DUNIRA ISLAND BC. NTS 103-J/7

part 2 of 2

GRID L  
GEOLOGY MAP

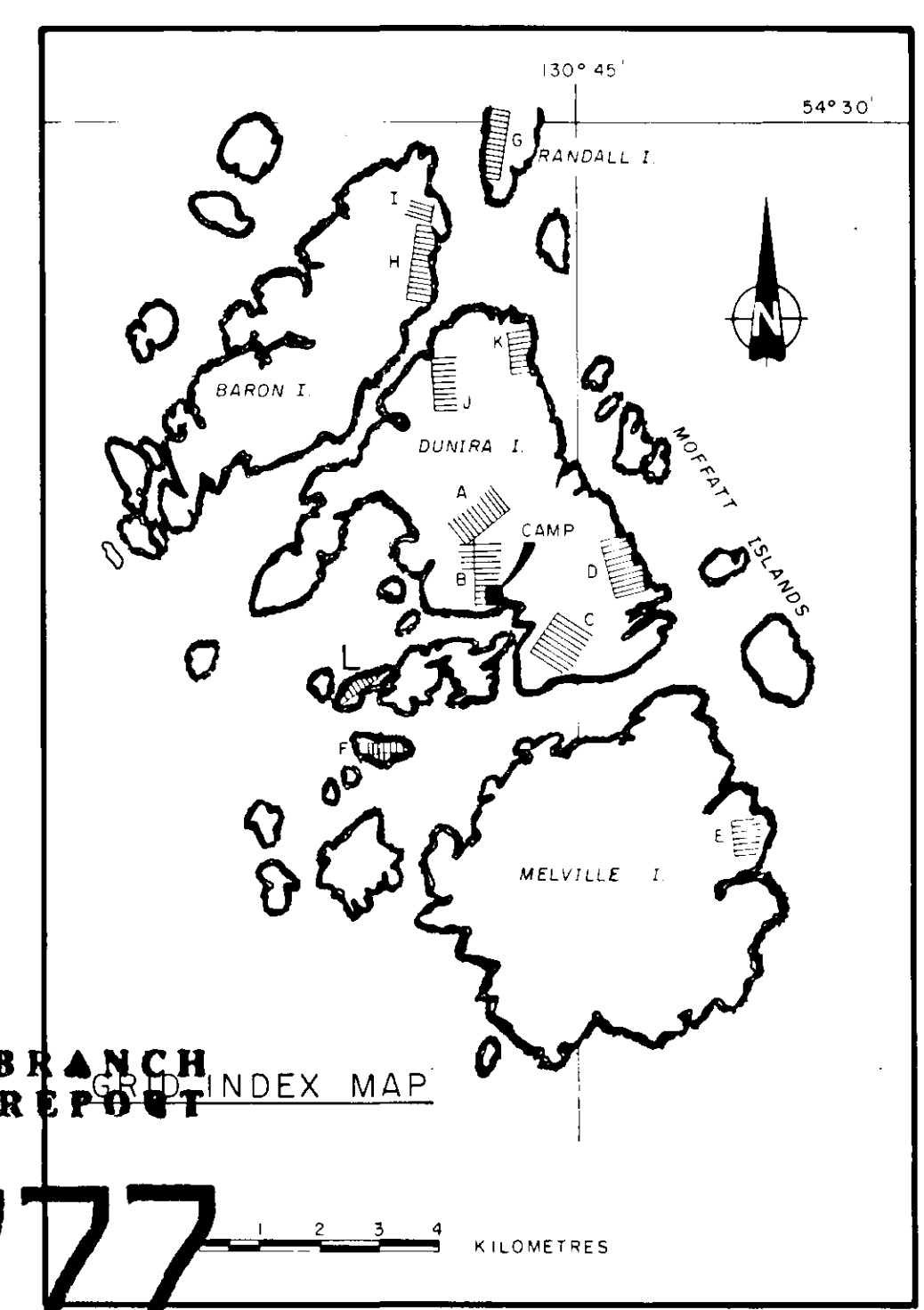
50 0 100 200 METRES

BY: M. CARR / rwr  
DATE: AUG, 1984  
MAP NO. L-1



LEGEND:

4 0.1 Cu Ag VALUES IN P.P.M.  
12 29 Pb Zn  
NS = NO SAMPLE TAKEN.



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

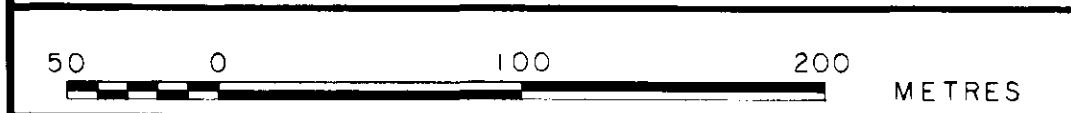
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part 2  
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GRID L  
SOIL GEOCHEMICAL SURVEY  
Cu, Ag, Pb & Zn RESULTS



BY: M. CARR / rwr  
DATE: AUG, 1984  
MAP NO. L-2