A REPORT ON THE GEOLOGY, GEOPHYSICS AND GEOCHEMISTRY OF THE GRACE #1-14 CLAIMS

OMINECA MINING DIVISION NTS 94E2W

Latitude 57°11'N

Longitude 126°52'W

Owner: D.R.MacQuarrie

Author: "

DATED

September 10, 1979

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APPENDICES

1 INTRODUCTION

This report presents the results of all the geological, geophysical, and geochemical data obtained from the GRACE CLAIMS, for the period from September 1978 to September 1979. Further, it details the costs incurred in the above mentioned program.

2 LOCATION

The GRACE CLAIMS are located approximately 250 km north of Smithers, British Columbia, in the Omineca Mountain Range. The property is situated at 57°11' north latitude by 126°52' west longitude, at an elevation of 1200 metres on the southern slopes of Drybrough Peak (figs 1 & 2).

Property access is either by fixed wing aircraft from Prince George or Smithers B.C., to the Sturdee airstrip near Chappelle Creek, and from there 14 km via helicopter to the property or by vehicle via the Omineca Mining Road to Johanson Lake followed by a 70 km helicopter flight.

3 HISTORY

The claims area was originally staked by the author, on behalf of Amax Potash Ltd., in August of 1973. In July of 1974 the company completed 14 line miles of surveying, and regional prospecting which was filed for assessment purposes (report #5144). These claims expired in Aug. 1975.

TOODOGGONE RIVER AREA

Scale 1 : 250,000

1 Inch to 4 Miles Approximately

NTS 94 E

Miles 5 0 5 10 15 20 Miles

Kilometres 5 0 5 10 15 20 25 30 Kilometres

LOCATION MAP — GRACE PROPERTY

FIGURE 1

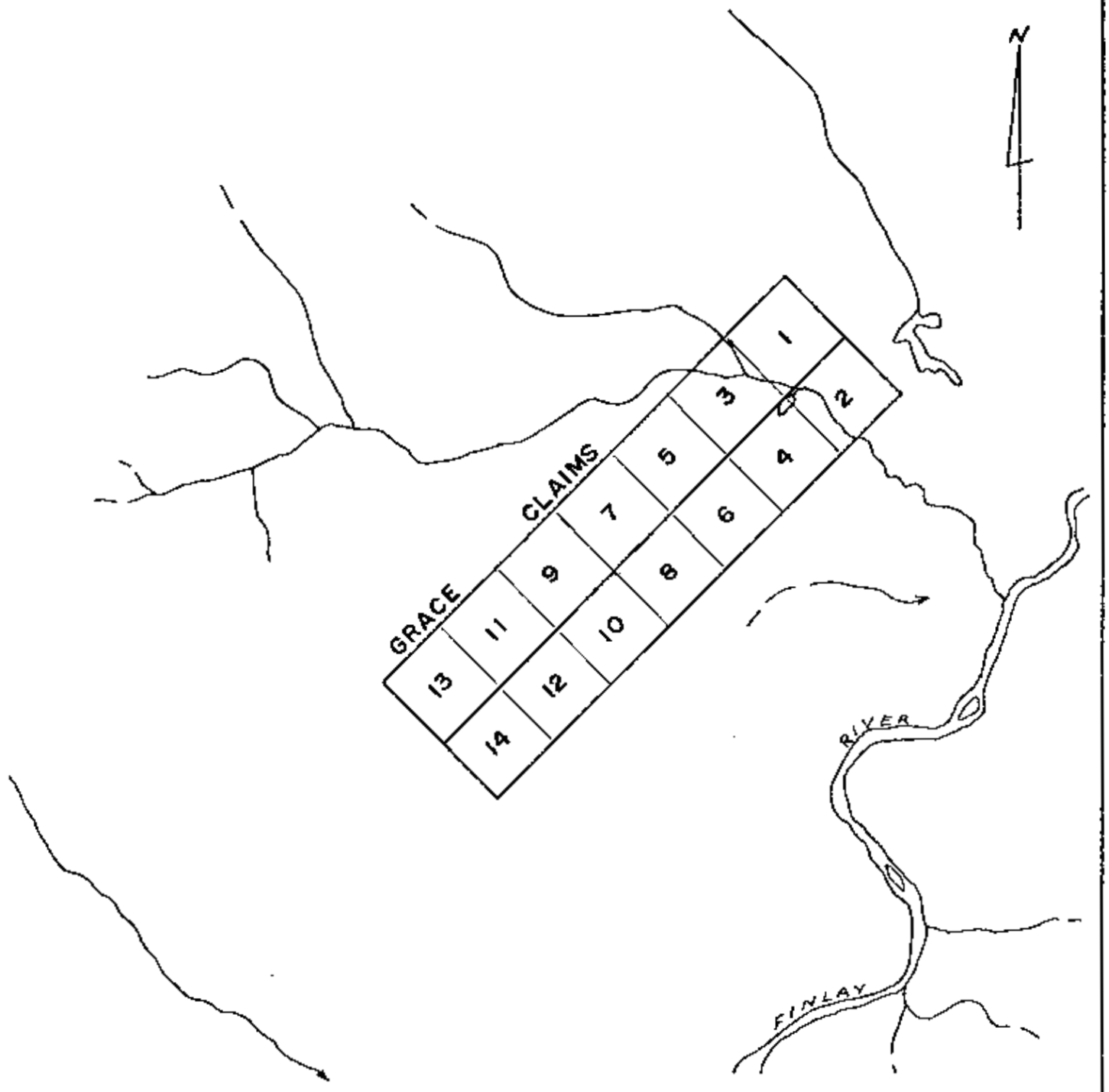


photo no. A12312 - 351

GRACE PROJECT

CLAIM MAP

scale 2000 1000 0 2000 feet

1:32,640

NTS sheet 94E2W

Omineca Mining Division, B.C.

FIGURE 2

The present claims were staked on September 5, 1978 and are owned and operated by D.R. MacQuarrie. At present the following metals are being investigated for : gold, silver, copper, zinc and molybdenum.

4 WORK COMPLETED

4.1 GEOCHEMICAL SURVEY

A total of 122 soil samples and 13 rock samples were obtained from the Grace claims and analyzed for pH, total Mo, Cu, Ag, Zn, Pb, and Au. Seven of the samples were also analyzed for tungsten. All of the analyses were done by Rossbacher Laboratory, utilizing standard atomic absorption techniques.

4.2 GEOPHYSICAL SURVEYS

Induced Polarization : SABRE I.P. Unit, 0.3 & 10 hz
Dipole-Dipole Array, a spacing 30 m, n=1, 1.6 km.
" a " 15m, n=1, 0.3 km.

Resistivity Survey : completed with above I.P.survey

VLF EM Survey : SABRE VLF EM Unit, Transmitting station in Cutler Maine

Dip angle and normalized field strength were recorded at 30 metre intervals, instrument facing west, 3.0 km .

4.3 GEOLOGICAL SURVEY

Approximately 1.0 square kilometre of geological prospecting and mapping was completed in September of 1978. This information is presented at a scale of 1:5000, combined with the previous geological knowledge. A further 0.25 km^2 of mapping was completed over the East Gold Anomaly area. This data is presented as figures 3 and 9.

4.4 GRID ESTABLISHING

In order to accomplish the above mentioned surveys, some 3.0 km of blazed, chained and flagged line was established. A further 7.0 km of topochained and flagged line was also laid out. These grids are shown on the included maps (in pocket).

5 LIST OF CLAIMS

The following claims have been included in the above mentioned surveys : Grace Nos. 1 through to 14, inclusive for the geological mapping; Grace Nos. 3 through to 6, inclusive for the Induced Polarization, Resistivity and VLF EM surveys; and Grace Nos. 1 through to 14, inclusive for the Geochemical investigation.

6 RESULTS

6.1 GEOCHEMISTRY

In all some 135 geochem samples were obtained from two local grids in the East and West Gold Anomaly areas. These samples were obtained on 30 metre or less centers, and were made up of material from the "B" soil horizon.

Throughout the survey area geochem responses coincided, in most cases, with observed mineralization. In general, Au-Ag, Cu, Zn, and Pb anomalies occur in areas underlain by biotite meta-siltstone. Molybdenum anomalies occur over large areas underlain by granodiorite in the western part of the claims area, and also in limited amounts associated with the East Gold Anomaly, where it is found to occur in quartz-aplite-pegmatite veins.

6.2 GEOPHYSICS

Due to the fairly extensive vegetation cover, and variable overburden depths encountered in some claim areas, it was decided that I.P. and VLF EM surveys would be the best techniques to use in the search for a precious metal carrying vein. The I.P. map (fig. 6) indicates several zones of anomalous frequency effects. The anomaly on Line 74 from 14 to 20 north is believed caused by an enrichment of pyrite in the gneissic biotite siltstone. The anomaly in the south part of the grid is believed

to be caused by magnetite plus or minus pyrite, associated with the recrystallized marble found in the vicinity. Numerous small skarns rich in pyrite, magnetite and chalcopyrite have been noted in this unit in various other sections of the property. The low frequency effect area in the north western section of the map corresponds with known outcrop of granodiorite. The other low area which trends across the map at between 14 and 16 north, is possibly an indication of a depletion of total sulphide content as a result of alteration and silicification of the volcanic siltstone.

High resistivity areas observed on fig. 7, are indicative of the coarsely crystalline marble noted as Unit 1 on fig. 9. Moderate resistivity values seem to correlate well with areas underlain by granodiorite. Areas of low resistivity generally outline areas mapped as gneissic biotite siltstone. A ridge of high values trends across the map at approximately 16 north. This ridge may indicate local silicification of the volcanic siltstone or alternatively a thinning of the overburden cover. On line 74 E, the detail I.P. profile (fig. 10), suggests a general decrease in resistivity values as one approaches the surface, indicating that the overburden cover may be in the order of 5 metres thick.

The VLF EM MAP and the FRASER FILTERED VLF EM MAP, figs. 8 and 8a, indicate a zone of increased conductivity trending in an E - W direction, from approximately 12+50N on L80E to 19N on L72E. This conductor may represent a shear zone or vein.

6.3 GEOLOGY

The property geology is presented as fig. 3. This map is primarily the work of Hodgson, Amax Potash Limited. The map has been redrafted to a metric scale and has as a result of more extensive work, had significant alterations made to it.

Four major rock types occur within the boundaries of the GRACE property. They are, arranged from oldest to youngest : Unit 1 - coarsely crystalline marble of the Asitka Group, Unit 3 - fine grained gneissic biotite meta-siltstone of the Takla Group, Unit 6 - granodiorite-quartz monzonite of the Omineca Intrusions, and Unit 8 - pink porphyritic monzonite syenite dykes.

Units 1 through 5 occur in three distinct roof pendants which are surrounded in their entirety by granodiorite of Unit 6. The roof pendants are distributed throughout the entire length of the property and vary from 700 to 1000 m in length and from 200 to 600 m in width. They each contain a core of marble surrounded by fine grained meta-siltstone. Numerous mineralized skarn zones have been noted adjacent to and within the marble. A 70 m wide body of chloritic meta-andesite crosses Baseline 2 at L12E.

The roof pendants are highly recrystallized as a result of contact metamorphism and metasomatism. In many places the biotite siltstone takes on a gneissic appearance, containing 2-3mm, red (grossularite), garnets. In the vicinity of line 78E at 15N, the usually competent biotite meta-

siltstone is highly sheared and friable. The garnet and biotite have apparently been altered to chlorite. The geology of this area is presented in fig. 9.

Striking northwesterly across two of the meta-siltstone roof pendants are two 30 to 100 metre wide, pink porphyritic monzonite-syenite dykes. These are shown as Unit 8, on fig.6, & clearly cross-cut both the roof pendants and the granodiorite intrusion.

7 ITEMIZED COST STATEMENT

7a WAGES

Sept. 8,9/1978	6 man days	@	$100.00	$ 600.00
July 25 /1979	4 man days	@	$100.00	400.00
			total	$1000.00

7b,c FOOD & ACCOMODATION, TRANSPORTATION

Sept.5-9 /1978	total cost	$ 934.17
July 25-27/1979	total cost	574.46
	total	$1508.63

7d RENTALS

total	$ 0.00

7e SURVEYS

Geology. Sept. 5 - 7/1978, field work July 26 -28/1979, field work Sept., 1979, office work	$ 650.00
Induced Polarization, 1.9 km @ $600/km	$1140.00
VLF EM Survey, 3.0 km @ $80.00/km	240.00
Geochem Survey, 133 samples @ $3.00/sample	399.00
total	$2429.00

7f ANALYSES

133 samples, analyzed for 7 elements, and pH, average unit cost $4.33 total	$ 576.10

7g REPORT

Sept., 1979, 4 days @ $150.00/day total	$ 600.00

Grand total	$6113.73

CERTIFICATE OF QUALIFICATIONS

I, Douglas R. MacQuarrie, do hereby certify that:

1. I am a practising geophysicist/geologist with office and residence at #5 - 10391 Number 3 Road, Richmond, British Columbia, Canada.

2. I have received the following university degree:

   1975 B.Sc. (Combined Honours Geology/Geophysics)
   University of British Columbia,
   Vancouver, B.C.

3. I am a member in good standing of the following professional organizations:

   a. B.C. Geophysical Society
   b. Canadian Institute of Mining and Metallurgy

4. Since 1971 I have been engaged in various exploration and mining geophysics projects throughout Canada.

5. The geophysical field work, data reduction and interpretation presented in this report were done under my direct supervision.

6. The geological field work and interpretation presented in this report were done under my direct supervision.

D R MacQuarrie

Douglas R. MacQuarrie, B.Sc.
Geophysicist/Geologist

APPENDIX A

GEOCHEM RESULTS

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

0

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8145
INVOICE NO. 8139
DATE ANALYSED SEPT. 18/78

TO: D.R. MACQUARRIE
PROJECT #5 10391 #3rd Richmond B.C.

No.	Sample	pH	Mo	Cu	Mn	Ag	Zn	Pb		PPB Au				No.
01	78 GMS 1		7	54	500	0.8	66	22		< 10				01
02	2		5	64	320	0.6	226	26		< 10				02
03	3		7	74	320	0.8	130	16		20				03
04	4		5	68	580	0.8	58	14		< 10				04
05	5		8	98	400	0.6	254	18		20				05
06	6		20	56	420	0.4	702	30		30				06
07	7		15	580	720	0.6	280	30		< 10				07
08	8		14	1400	1120	1.0	270	42		< 10				08
09	9		9	274	340	0.8	50	26		20				09
10	10		7	820	360	0.8	202	26		10				10
11	11		4	230	320	0.6	74	24		20				11
12	12		4	332	460	1.4	150	26		50				12
13	13		4	168	240	1.0	42	22		20				13
14	14		5	162	360	1.0	90	28		10				14
15	15		4	140	240	0.8	56	26		< 10				15
16	16		14	98	400	0.6	170	18		10				16
17	17		5	162	3300	1.0	520	40		< 10				17
18	18		9	580	620	1.6	186	30		10				18
19	19		13	298	240	1.0	110	22		20				19
20	20		12	1260	800	0.8	218	54		10				20
21	21		14	440	320	0.6	134	30		10				21
22	22		12	420	940	1.0	222	38		10				22
23	23		6	800	1200	1.0	200	46		< 10				23
24	24		17	134	320	0.8	84	26		30				24
25	25		21	62	220	0.6	58	18		20				25
26	26		13	82	300	0.8	82	18		20				26
27	27		10	86	200	0.6	62	18		30				27
28	28		15	206	640	0.8	112	26		20				28
29	29		18	62	240	0.8	114	22		10				29
30	30		8	130	220	0.8	62	26		10				30
31	31		8	142	320	1.0	46	30		10				31
32	32		8	272	560	0.6	160	22		50				32
33	33		27	110	980	0.8	298	42		30				33
34	34		13	346	940	1.0	94	26		10				34
35	35		15	400	900	0.6	228	26		10				35
36	36		17	80	320	0.6	60	14		20				36
37	37		10	24	420	1.0	86	18		20				37
38	38		11	66	620	0.6	62	30		20				38
39	39		6	114	500	0.6	108	22		10				39
40	C-1		6	40	220	0.4	106	26		—				40

Certified by C. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

(2)

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8145

TO: D. R. MACQUARRIE
#5 10391 #3rd
Richmond B.C.

INVOICE NO. 8139

PROJECT

DATE ANALYSED SEPT 18/78

No.	Sample	pH	Mo	Cu	Mn	Ag	Zn	Pb		PPB Au				No.
01	8GMS 40		11	230	1400	2.2	980	166		200				01
02	41		3	16	480	0.6	114	22		20				02
03	42		10	278	820	1.2	660	164		10				03
04	43		8	300	700	0.8	780	78		20				04
05	44		6	168	600	0.8	1260	70		< 10				05
06	45		23	460	3700	2.8	940	232		20				06
07	46		5	370	920	1.8	760	26		30				07
08	47		2	20	220	0.4	62	10		10				08
09	48		3	30	500	0.4	174	14		< 10				09
10	49		1	150	320	0.8	680	14		< 10				10
11	50		1	4800	1600	6.0	640	26		< 10				11
12	51		1	14	120	0.4	42	6		< 10				12
13	52		5	68	400	0.8	62	18		10				13
14	53		2	28	940	0.6	112	18		10				14
15	54		1	74	330	0.4	98	14		10				15
16	55		1	50	1200	0.6	420	36		< 10				16
17	56		1	16	640	0.4	92	10		10				17
18	57		2	14	300	0.4	134	6		< 10				18
19	58		3	244	900	1.2	250	26		< 10				19
20	59		3	22	400	1.0	400	32		20				20
21	60		3	42	500	0.4	118	12		20				21
22	61		3	16	280	0.4	86	14		20				22
23	62		1	190	40	1.2	40	10		10				23
24	63		6	400	520	3.8	220	342		20				24
25	64		1	8	180	0.4	50	10		50				25
26	65		3	18	40	0.2	112	2		< 10				26
27	66		1	100	620	0.8	460	30		10				27
28	67		4	440	1400	1.6	68	10		10				28
29	68		5	118	480	1.0	122	14		10				29
30	69		11	900	1480	1.8	980	56		20				30
31	70		15	500	1300	9.0	3000	210		30				31
32	71		2	32	500	0.4	224	26		20				32
33	72		3	134	1680	0.8	600	42		20				33
34	73		16	80	1180	1.0	640	102		20				34
35	74		3	38	3080	0.8	1620	212		10				35
36	75		3	900	1400	2.8	5800	1350		30				36
37	76		7	14	320	0.4	82	26		20				37
38	77		4	18	460	0.8	176	16		30				38
39	78		3	22	440	0.4	174	18		40				39
40	F-6		42	364	320	3.0	726	420						40

Certified by C. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8145
INVOICE NO. 8139
DATE ANALYSED SEPT 18/78

TO: D.R. MacQUARRIE
#5 10391 #3rd
PROJECT Richmond B.C.

No.	Sample	pH	Mo	Cu	Mn	Ag	Zn	Pb				PPB Au		No.
01	8GMS 79		6	90	140	0.6	220	24				>10		01
02	80		2	12	200	0.4	124	14				10		02
03	81		6	270	2200	1.2	>1240	40				10		03
04	82		5	>540	1040	2.2	>2200	46				10		04
05	83		2	22	340	0.4	96	20				10		05
06	84		9	30	240	0.4	70	26				70		06
07	85		2	42	460	0.4	100	28				10		07
08	86		3	32	140	0.4	80	20				<10		08
09	87		2	22	360	0.6	164	26				10		09
10	88		5	16	400	0.6	170	22				10		10
11	89		8	214	540	1.4	136	54				10		11
12	90		4	106	200	1.0	126	42				10		12
13	91		4	92	300	0.8	76	56				10		13
14	100		20	176	420	0.8	132	32				10		14
15	101		8	32	280	1.0	56	22				10		15
16	102		8	>540	400	0.8	56	24				10		16
17	103		10	86	220	0.6	68	20				10		17
18	104		6	160	280	0.6	120	20				30		18
19	105		11	>680	120	0.6	194	20				10		19
20	106		12	>1000	1100	1.6	>1200	56				20		20
21	107		2	18	200	0.6	150	20				<10		21
22	108		2	12	280	0.8	60	26				10		22
23	109		4	72	420	0.6	76	24				10		23
24	110		2	32	260	0.4	54	20				10		24
25	111		3	140	620	0.6	334	30				10		25
26	112		14	28	800	0.6	96	20				10		26
27	113		7	12	580	0.8	180	28				10		27
28	114		8	12	180	0.6	106	24				<10		28
29	115		1	18	160	1.0	64	50				<10		29
30	116		10	140	640	1.0	154	40				30		30
31	117		2	34	500	0.8	100	32				10		31
32	118		20	42	920	1.2	>680	164				10		32
33	119		6	120	2300	0.8	390	56				10		33
34	120		4	38	800	0.6	96	20				10		34
35	121		10	34	560	0.6	296	16				<10		35
36	122		6	16	400	0.4	86	18				10		36
37	123		1	18	320	0.4	116	22				<10		37
38	124		1	12	340	0.4	72	20				20		38
39	125		8	12	260	0.4	60	20				10		39
40	G 6 (STD)		46	400	300	3.4	340	430						40

Certified by G. Rossbacher

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 8145
INVOICE NO. 8139
DATE ANALYSED SEPT 18/78

TO: D. R. MacQuarrie
#5 10391 #3 Rd.
PROJECT Richmond B.C.

No.	Sample	pH	Mo	Cu	Mn	Ag	Zn	Pb		oz/T Au	oz/T Ag	PPB Au		No.
01	78GMS126		18	52	700	0.8	240	68		-	-	10		01
02	S127		16	198	420	1.4	156	38		-	-	10		02
03	T 1		18	160	920	1.6	72	140		0.001	0.06	-		03
04	T 5		10	42	120	2.0	16	130	<	0.001	0.06	-		04
05	T111		18	10	80	0.4	8	100	<	0.001	0.04	-		05
06	T116		12	136	620	1.0	60	56		0.001	0.06	-		06
07	T126	*	ASSAY	4	180	0.4	20	68	<	0.001	0.02	-		07
08	T127		22	8	200	0.2	20	30		0.001	0.02	-		08
09														09
10														10
11														11
12														12
13														13
14	*R601126		0.029 % TOTAL Mo											14
15														15

Rossbacher Laboratory

GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B. C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 9202-2
INVOICE NO. 9188
DATE ANALYSED 79/08/10

TO: D.R. MAC QUARRIE
#5 10391 #3 ROAD
PROJECT RICHMOND, B.C.

No.	Sample	pH	Mo	Cu	Ag			PPM W	PPB Au					No.
01	G9-1		2	190	1.2			0	40					01
02	2		54	108	1.0			0	10					02
03	5		1340	12	0.2			0	40					03
04	6		26	280	2.6			0	10					04
05	7		44	720	3.0			0	10					05
06	8		1	32	0.2			0	10					06
07	G9-9		4	22	0.2			0	10					07
09														09
10														10
11														11
12														12
13														13
14														14
15														15
16														16
17														17
18														18
19														19

APPENDIX B - GEOCHEM PROCEDURE

In general, most of the geochem soil samples were obtained from a depth of from 20 to 30 centimeters, corresponding to the B soil horizon. The material was then placed in brown kraft paper envelopes and shipped to the Rossbacher Laboratory in Burnaby B.C., for analysis.

The samples were then dried, and sifted to minus 80 mesh. One half gram of this material was then digested in a mixture of 85 parts perchloric acid to 15 parts nitric acid. When fully digested, the remaining solution was diluted with distilled water to a volume of 10 ml. This solution was then analyzed by standard Atomic Absorption techniques.

In the case of the Gold geochemistry, the sample preparation was identical to the above, except that the digestion was done by a solution of aqua-regia instead of the perchloric-nitric acid solution used above. The sample was then determined by the same standard A.A. techniques.

LEGEND

- Claim post, claim location line
- Claim boundary
- Grid line (1974), stations
- Grid line (1978), stations
- Stream
- Swamp area
- Boulder, boulder terrace
- Outcrop
- Geological contact (defined, approximate)
- Fault
- Mineralized shear vein
- Bedding, dip
- Foliation
- H135, G5 Hand specimen (H = Amax, G = Grace)

Cpy.	Chalcopyrite	Chl.	Chlorite
Diop.	Diopside	Ep.	Epidote
Gar.	Garnet	Hem.	Hematite
Mag.	Magnetite	Mal.	Malachite
Py.	Pyrite	Qtz.	Quartz
Spec.	Specularite	Sphal.	Sphalerite

8	Pink porphyritic monzonite syenite dykes
7	Andesite and lamprophyre dykes
6	Granodiorite
5	Skarn
4	Amphibolite
3	Fine grained, gneissic biotite metasiltstone
2	Quartzite
1	Coarsely crystalline marble

Geology by Hodgson, 1974

Revised by D.M.Q., September 1978, July 1979

7679

D.R. MACQUARRIE & ASSOCIATES

GRACE PROJECT

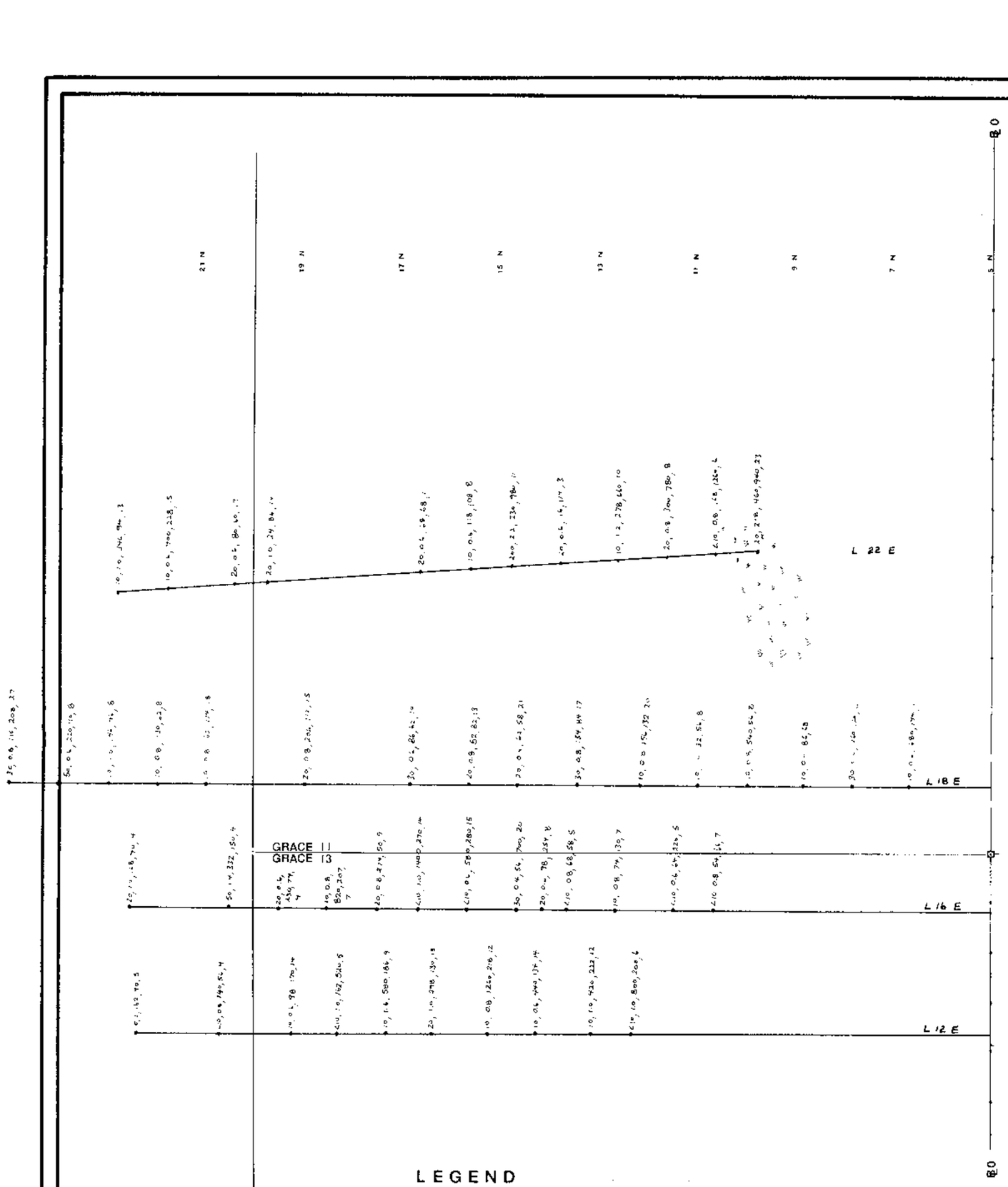
NTS 94E2 - OMINECA MINING DIVISION - B.C.

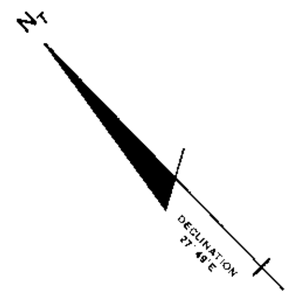
GEOLOGICAL MAP

scale 100 0 50 100 metres
1 : 5000

Drawn by : D.M.Q. | Date : Sept. 1978 | FIGURE - 3

D.R. MacQuarrie





7649
NO.

D.R. MACQUARRIE & ASSOCIATES

GRACE PROJECT

NTS 94E2W OMINECA MINING DIVISION B.C.

GEOCHEM MAP

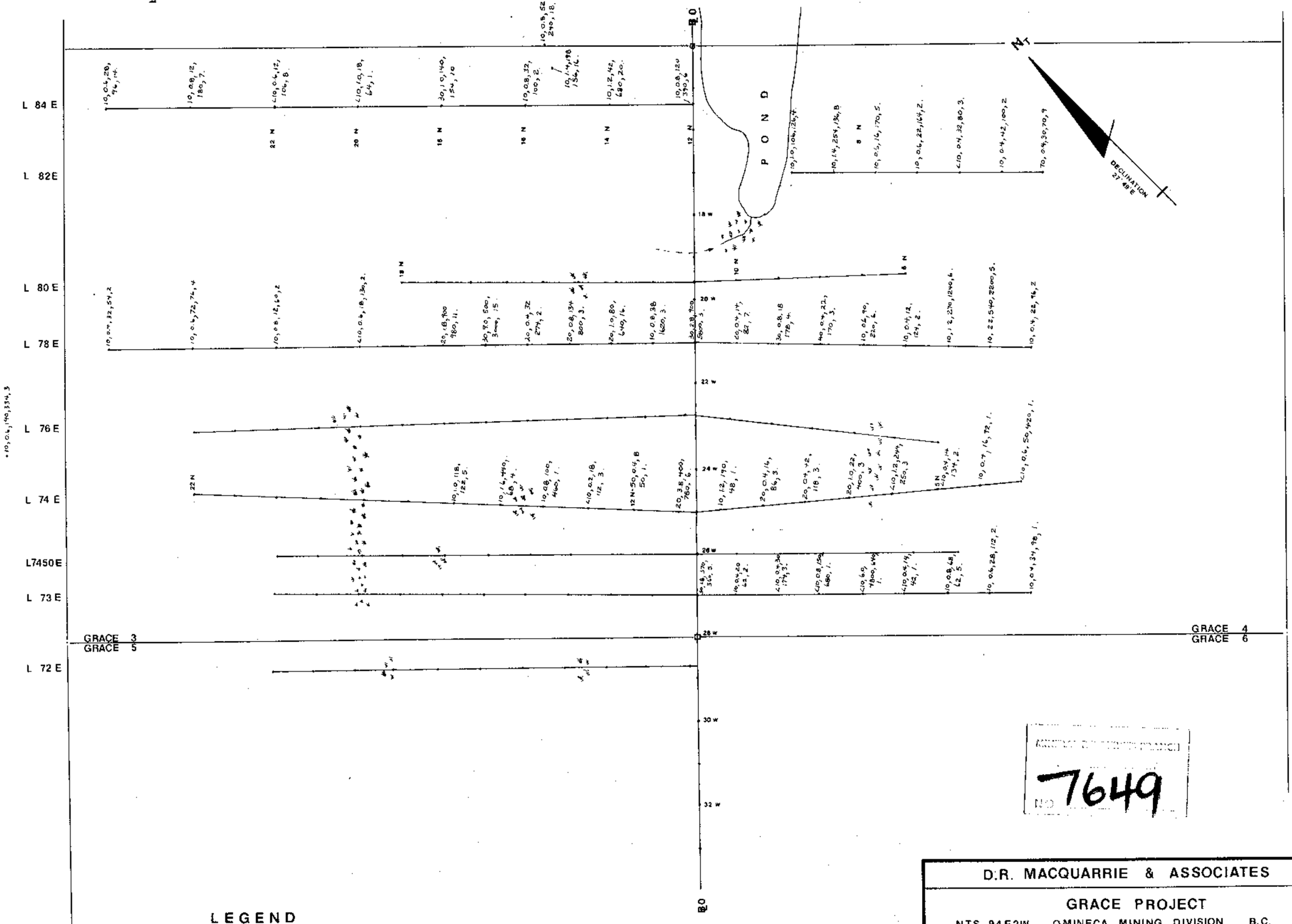
WEST GOLD ANOMALY

scale 10 0 50 100 metres

1 : 2000

Dwg. by : DMQ	Date : Sept. 1979	FIGURE 4

D. R. MacQuarrie



LEGEND

grid line, stations

claim post

swamp area

10,10,118,122,5. Au (PPB), Ag, Cu, Zn, Mo (PPM) (see Appendix A)

Note: samples BGMS 120-125, located one every 200 feet along BO, from 10+00 W to 0+00 W.

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GRACE PROJECT

NTS 94E2W OMINECA MINING DIVISION B.C.

GEOCHEM MAP

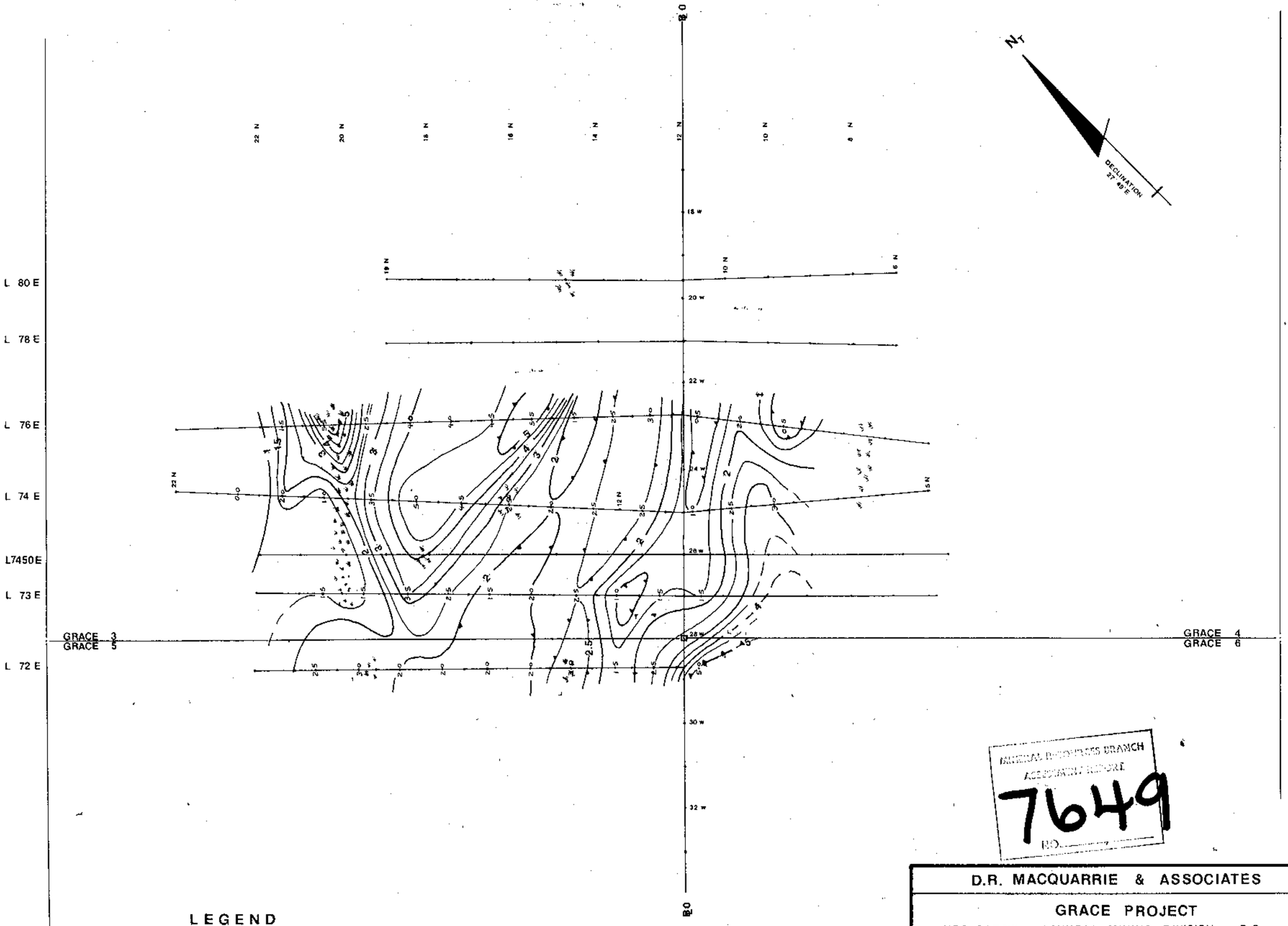
EAST GOLD ANOMALY

scale 10 0 50 100 metres

1 : 2000

Dwg. by : DMQ	Date : Sept. 1979	FIGURE 5

D.R. MacQuarrie



LEGEND

grid line, stations

claim post

swamp area

I.P. reading, % Frequency Effect

Dipole — Dipole Array

a = 30m, n = 1

SABRE Frequency Domain I.P. Unit

0.3 & 10 cps

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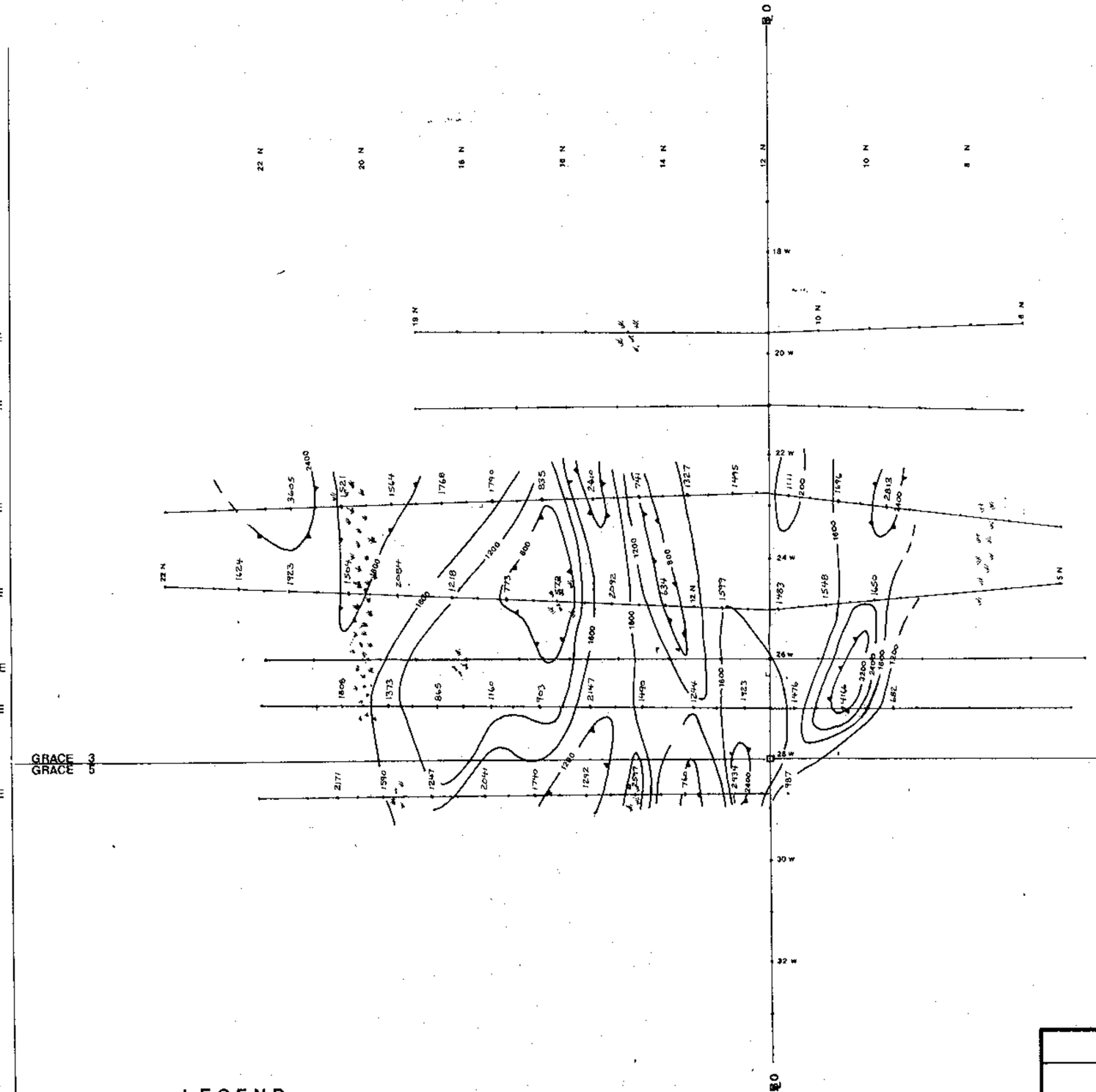
I. P. MAP

EAST GOLD ANOMALY

scale 100 0 50 100 metres

1 : 2000

Dwg. by : DMQ	Date : Sept. 1979	FIGURE 6
Contour Interval 0.5 %	D.R. MacQuarrie	



LEGEND

grid line, stations

claim post

swamp area

resistivity, *nm*

Dipole — Dipole Array

a = 30m, n = 1

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RESISTIVITY MAP

EAST GOLD ANOMALY

scale 10 0 50 100 metres

1 : 2000

Dwg. by : DMQ	Date : Sept. 1979	FIGURE 7

Dr. MacQuarrie

L 80 E

L 78 E

L 76 E

L 74 E

L7450E

L 73 E

GRACE 3
GRACE 5

L 72 E

22 N 20 N 18 N 16 N 14 N 12 N 10 N 8 N

18 W 22 W 24 W 26 W 28 W 30 W 32 W

BO

GRACE 4
GRACE 6

N

DECLINATION 27°48'E

LEGEND

- grid line, stations
- claim post
- swamp area
- dip angle profile (deg)
- field strength profile (%)

DIP ANGLE ° +5 0 -5

FIELD STRENGTH % 50 40 30

Station Cutler Maine

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VLF EM PROFILES

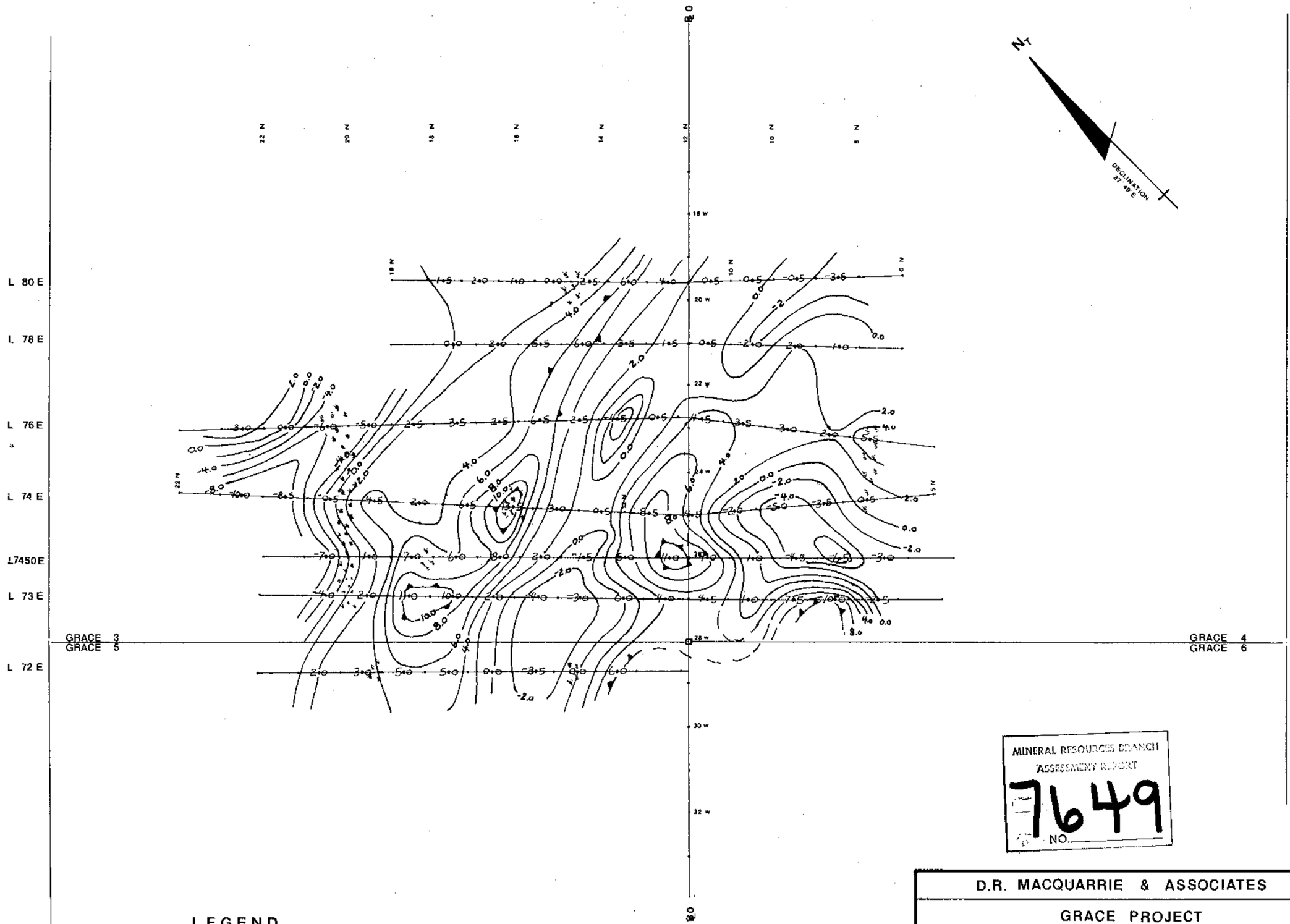
EAST GOLD ANOMALY

scale 100 0 50 100 metres

1 : 2000

Dwg. by : DMQ	Date : Sept. 1979	FIGURE 8

D.R. MacQuarrie



LEGEND

grid line, stations

claim post

swamp area

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FRASER FILTERED VLF EM

EAST GOLD ANOMALY

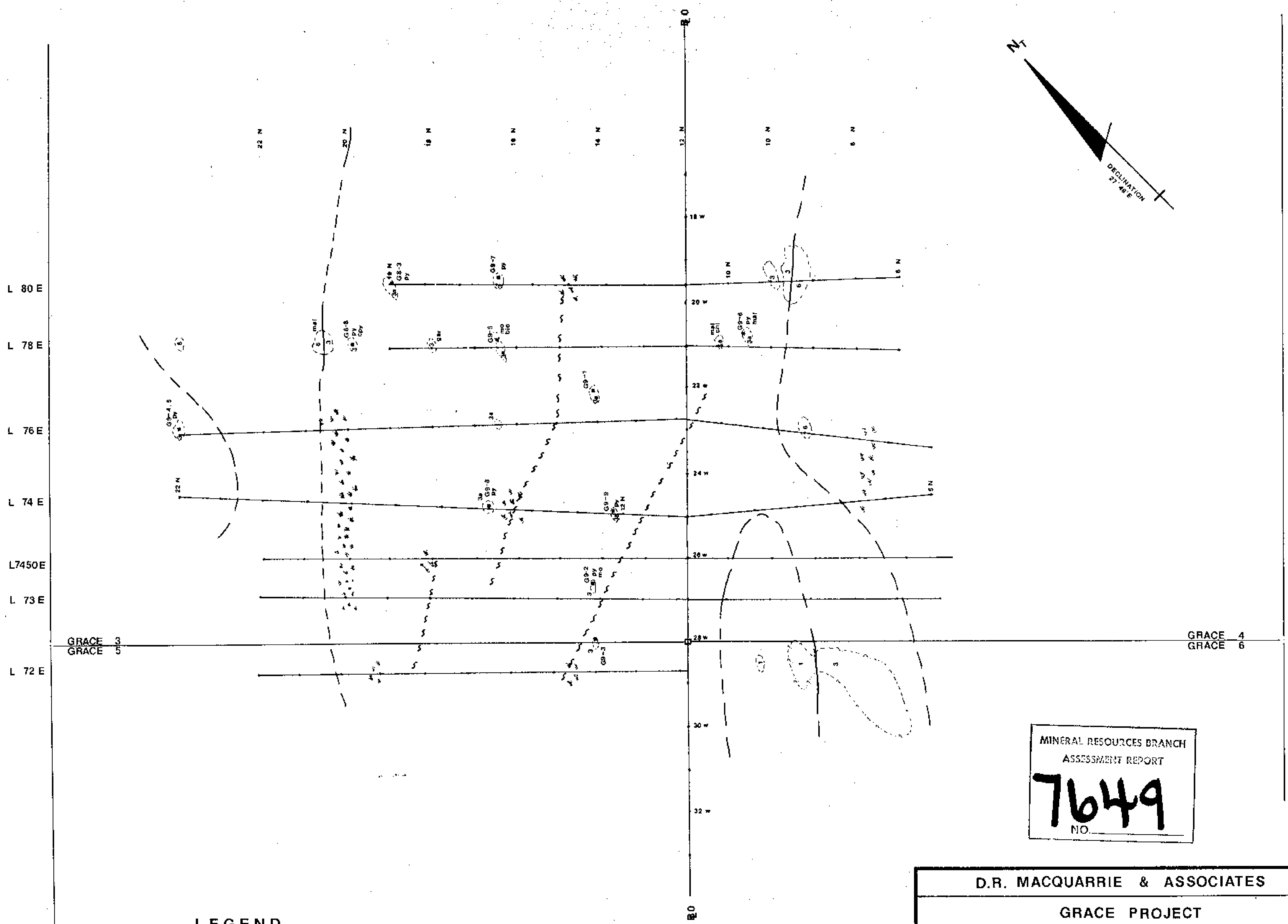
scale 10 0 50 100 metres

1 : 2000

Dwg. by : DMQ	Date : Sept. 1979	FIGURE 8a

FRASER FILTER : (rdg 1 + rdg 2) − (rdg 3 + rdg 4), contour interval = 2.0 deg.

D.R. MacQuarrie



LEGEND

	grid line, stations	G9-5	rock sample site	6	Granodiorite
	claim post	py, mo	pyrite, molybdenite	3	Gneissic biotite metasiltstone, chl.– bio. rich
	swamp area	mal, cpy	malachite, chalcopyrite	3a	Quartz rich unit 3, quartz stringers – grading to qtz-aplite-pegmatite veins
	geological contact	bio, chl	biotite, chlorite	1	Calcite marble
	fault (interpreted)	gar	garnet		

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GEOLOGY MAP

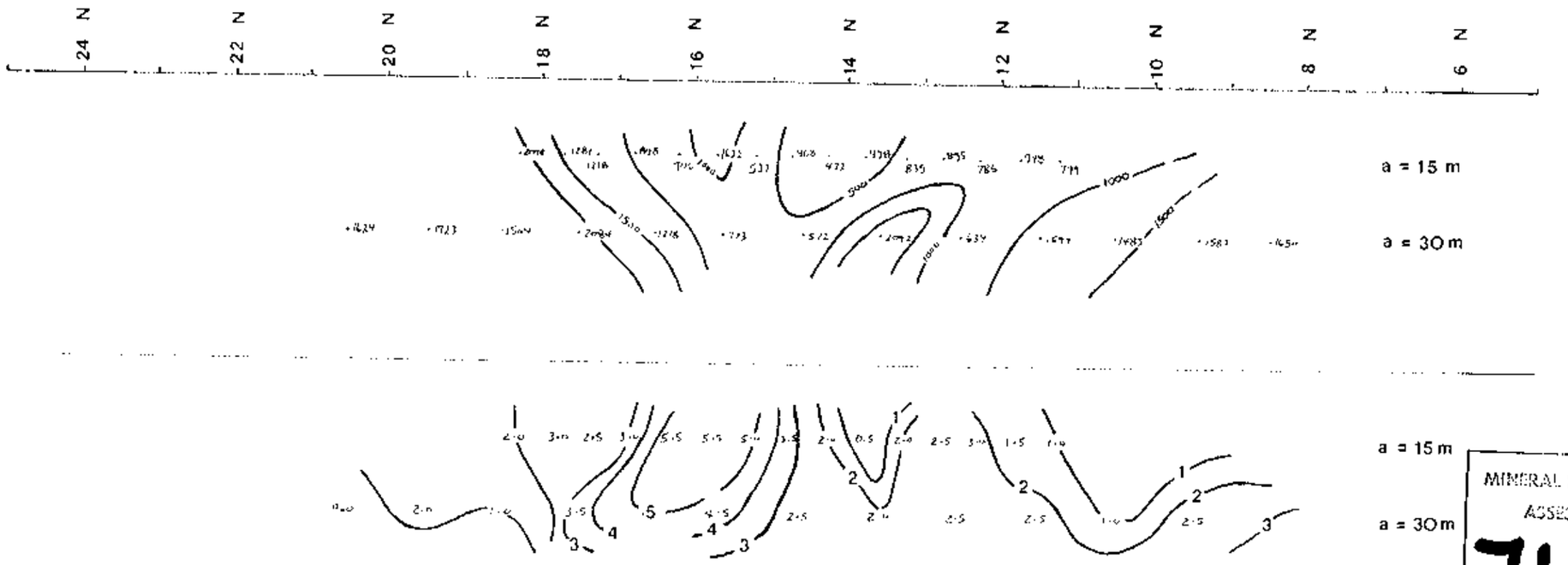
EAST GOLD ANOMALY

scale 10 0 50 100 metres

1 : 2000

Dwg. by : DMQ | Date : Sept. 1979 | FIGURE 9

D.R. MacQuarrie



MINERAL RESOURCES BRANCH
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Sabre Frequency Domain Transmitter and Receiver

Dipole - Dipole Array

$\overset{Tx}{\overset{\longleftarrow a \longrightarrow}{}}$ na $\overset{Rx}{\overset{\longleftarrow a \longrightarrow}{}}$

a spacing 15 & 30 metres

n equals 1

0.3 and 10.0 hz

D.R. MacQuarrie & Associates

GRACE PROJECT

NTS 94 E2W OMINECA MINING DIVISION B.C.

I.P. PROFILE L 74E

EAST GOLD ANOMALY

scale 50 0 50 100 metres

1 2000

Drawing by DMQ	Date Sept. 1979	FIGURE 10