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GEOPHYSICAL AND GEOLOGICAL REPORT ON THE

## TRIM AND TRIM 5 CLAIM GROUPS

## FOR ASSESSMENT WORK PROGRAM 1991-1992

## ASSESSMENT REPORT #

REVELSTOKE MINING DIVISION NTS 82 M8 LATITUDE 51<sup>0</sup> 22'NORTH LONGITUDE 118<sup>0</sup> 14'EAST

### FOR

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GOLDFINGER EXPLORATIONS INC.

212A-1940 LONSDALE AVENUE NORTH VANCOUVER, B.C. V7M 2K2 (604) 987-5453 FAX (604) 988-2411

#### BY

CHRIS BASIL COAST MOUNTAIN GEOLOGICAL LTD JUNE, 1992

# GEOLOGICAL BRANCH ASSESSMENT REPORT

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#### SUMMARY

The Trim Group of mineral claims are located 58 kilometres north of Revelstoke, B.C., on the east side of Columbia Lake, in the Selkirk Mountains.

The property is dominantly underlain by Lower Paleozoic rocks comprised of chloritic, graphitic garnet-quartz-biotite-muscovite schists, limestone, dolomite, chloritic hornblende gneiss, and quartzite. The grade of regional metamorphism appears to be upper greenschist-lower amphibolite facies in this location.

The rocks are isoclinally folded with the gently northward plunging Standard Antiform (antiformal synform) axis trending  $350^{\circ}\30-60^{\circ}$ E from the north end of the property to Kelly Creek; at this location it bends eastward down Kelly Creek, trending  $290^{\circ}$  and dipping steeply eastward. Parasitic "S", "Z" and chevron folding is common.

Mineralization within the Trim Group consists of statabound polymetallic sulphide occurrences with gold and silver values. Two previously undocumented sulphide showings were discovered during the 1990-91 assessment program. The 1992 program included the sampling of two old workings returning high copper and significant gold values (DR-4 2.92% Cu, 1151 ppb Au).

The Genie-Em survey delineated a number of conductive anomalies that need to be closely correlated to local geology and geochemical data in the following exploration program.

The work programs to date suggest that stratigraphy and mineralization on the Trim Group is similar to deformed, metamorphosed stratabound sulphide deposits of a Beshi type. Further work on the property should focus on tracing the new showings, and their host rocks, along strike and down dip. Other copper-zinc or zinc-lead dominant sulphide zones with gold/silver values should also be sought in places where there is structural thickening of the sulphide horizons.

### **INTRODUCTION**

The Trim and Trim 5 Groups are comprised of 132 units located 58 kilometres north of Revelstoke, B.C., in the Selkirk Mountains on the east side of Columbia Lake.

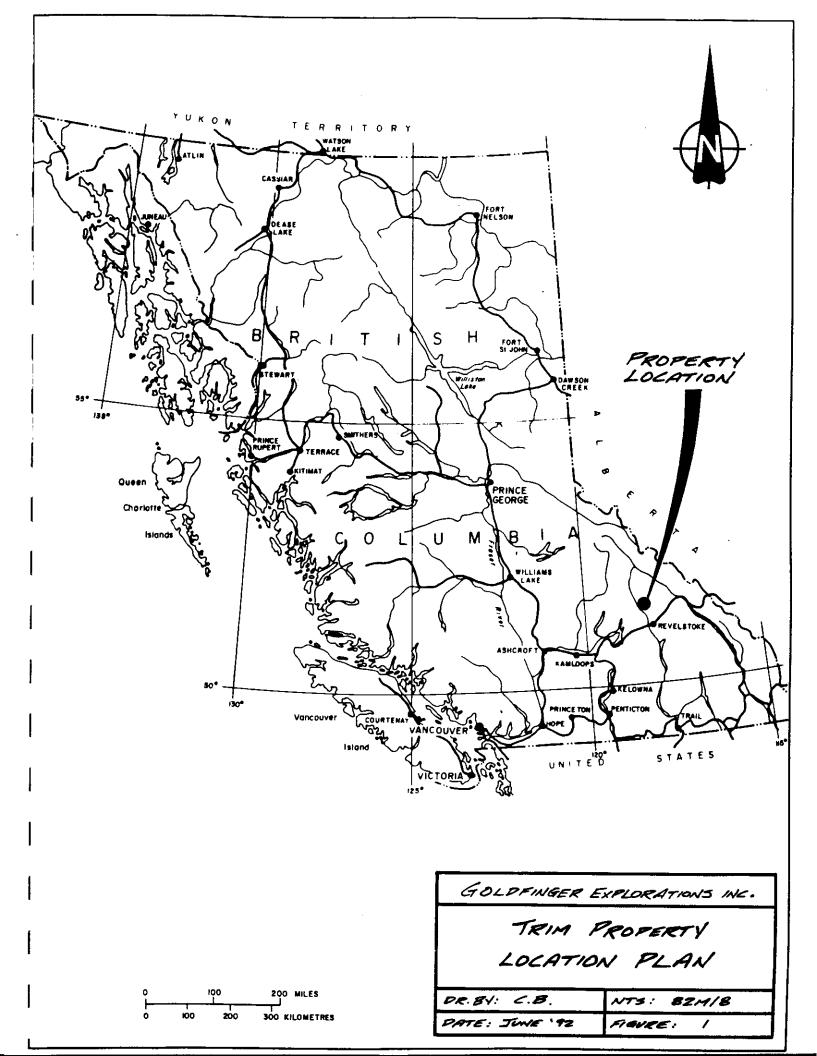
During the spring of 1992, a program of Genie-Em and magnetometer surveys and sampling was conducted on the Trim and Trim 5 Groups of mineral claims. Due to the snow conditions at the time, outcrop was generally limited to the steeper south facing ridges and where avalanches had slid along the ground surface. A total of 14.8 kms of grid was established with compass, hipchain and pickets to facilitate 14.3 kms of Genie-Em and 14.0 kms of magnetometer surveys. Several anomalous geophysical features were delineated by the surveys. As well, 4 rock samples were collected from old workings on the property, (figure 6).

#### LOCATION AND ACCESS

The Trim Group is located in the Revelstoke Mining Division, 58 kilometres north of Revelstoke, B.C. (Figure 1). The claims cover the headwaters and tributaries of Kelly Creek, Pass Creek and Standard Creek (Figure 2). Highway 23, the Big Bend highway, is 8 kilometres west of the property. Trails to the property include one from Keystone to the north and from Carnes Creek up Kelly Creek to the south. Currently the best method of access is via helicopter from Revelstoke, with Highway 23 acting as a good staging ground for moving equipment and supplies into the property.

### TOPOGRAPHY AND CLIMATE

The Trim claims cover a rugged portion of the western belt of the Selkirk Mountains with elevations from 1,100 to 2,460 metres (Pass Peak). The high north facing slopes often hold pocket glaciers and snowpack. Treeline is approximately 1,524 metres elevation. A mature forest of cedar, hemlock and fir cover the lower valleys and avalanche paths are filled with slide alder, berry bushes, stinging nettles and devils club. The climate is temperate, with over 300 cm of precipitation annually; much of this occurs as snow which arrives by November and remains until late June. Temperatures range from 16 to 30  $^{\circ}$ C during the summer.



#### CLAIM INFORMATION

#### TABLE 1

TRIM GROUP Mineral

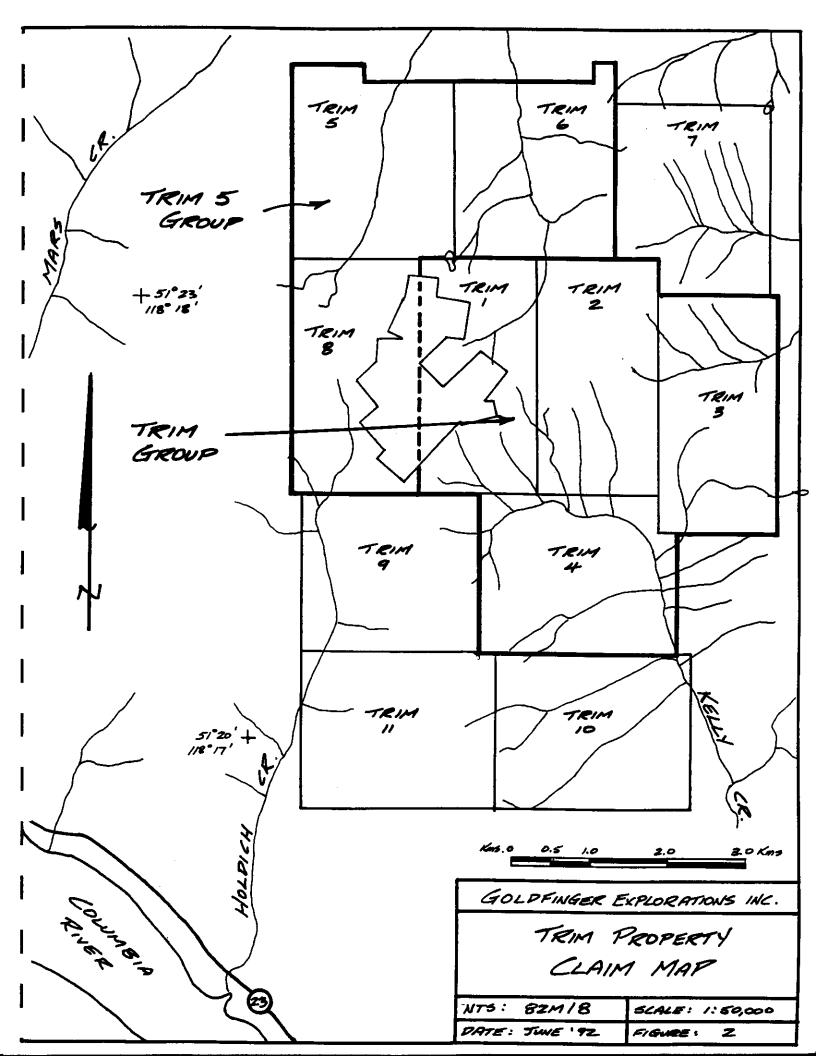
<u>claim</u>	<u>Units</u>	Record Date	Expiry Date*	Owner	
Trim 1	18	May 11,1988	May 11, 1993	Goldfinger	Explorations
Trim 2	18	May 11,1988	May 11, 1993	н	-
Trim 3	18	May 11,1988	May 11, 1993	11	
Trim 4	20	<u>May 11,1988</u>	<u>May 11, 1993</u>	Ħ	
Trim G	roup 74	units (2,590	acres)		

TRIM 5 GROUP

Trim	5	20	April	30,1991	April	30,	1993	14
Trim	6	20	April	30,1991	April	30,	1993	11
				1,1991			1993	17
				Lts (2030		)		
* per	ndi	.ng As	sessmer	it approv	al	-		

### <u>History</u>

The Standard Mountain area was staked in 1896 and developed by the Boston and B.C. Copper Mining and Development Company from 1900 to 1906 (Ministry of Mines Annual Reports, 1898-1921). They drove 700 metres of drifts, crosscuts and raises on five levels. During 1964 to 1968, Westairs Mining Ltd. performed prospecting and mapping over a large area. They drilled several holes on the #2 Zone, as defined by Noranda in 1976 (Hughes, 1976). During August and September of 1976, Noranda Explorations Ltd. conducted C.E.M. and soil geochemical programs over the Standard Basin area, east of Standard Peak. The soil geochemical program outlined numerous copper and zinc zones above 100 PPM parallel to a limestone unit and along strike to the known sulphide horizons. This was followed by diamond drilling nine holes totalling 888.9 metres concentrating on the known copper-zinc horizons within the Standard Mountain Crown Grants, and ground currently covered by the Trim Group. Explorations Inc. performed Goldfinger a property stream geochemistry survey in 1989 where a heavy mineral sample returned 3,130 PPb gold from Kelly Creek, and 560 PPb gold from one of its tributaries. In 1990, a short VLF survey over the headwaters of Kelly Creek outlined one definite and several possible conductors through thick overburden. This report describes the 1992 program of geophysics and sampling.



## TABLE 2

# REGIONAL GEOLOGY AND MINERALIZATION (modified after Hoy, 1979)

Age	Group	Lithology
<u>Mesozoic-Paleozoic</u>		<u>Intrusive Rocks</u> Granite Porphyry Quartz monzonite
<u>Lower Paleozoic</u>	Lardeau Group (Badshot?) (Mohican?) (Hamill Group ?)	<pre>Carbonate-phyllite: dolomite, limestone, dark calcareous phyllite <u>Metavolcanic:</u> -quartz-chlorite phyllite, -massive chloritic phyllite -Calcareous phyllite, dolomite -dolomite, limestone -calcareous graphite phyllite, sericite phyllite, dolomite, limestone, chlorite phyllite <u>Calc-silicate gneiss:</u> -calc silicate gneiss; calcareous schist, hornblende gneiss, amphibolite <u>Quartzite schist:</u> -quartzite, quartz-sericite schist, minor limestone</pre>
<u>Lower Paleozoic-</u> -Upper Proterozoic	Horsethief Cre	Pelitic, graphitic schist ek Phyllite, greenstone dolomite, limestone

The rocks vary in textures and composition sedimentary facies and metamorphism grades from chlorite-muscovite-quartz greenschist to biotite-almandine-hornblende amphibolite facies.

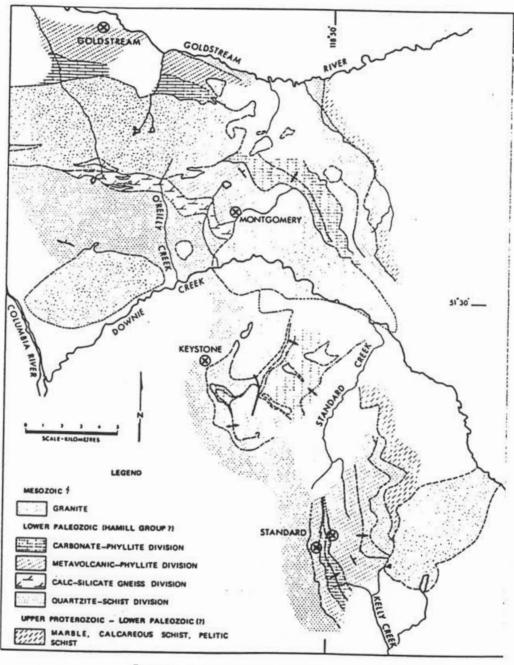
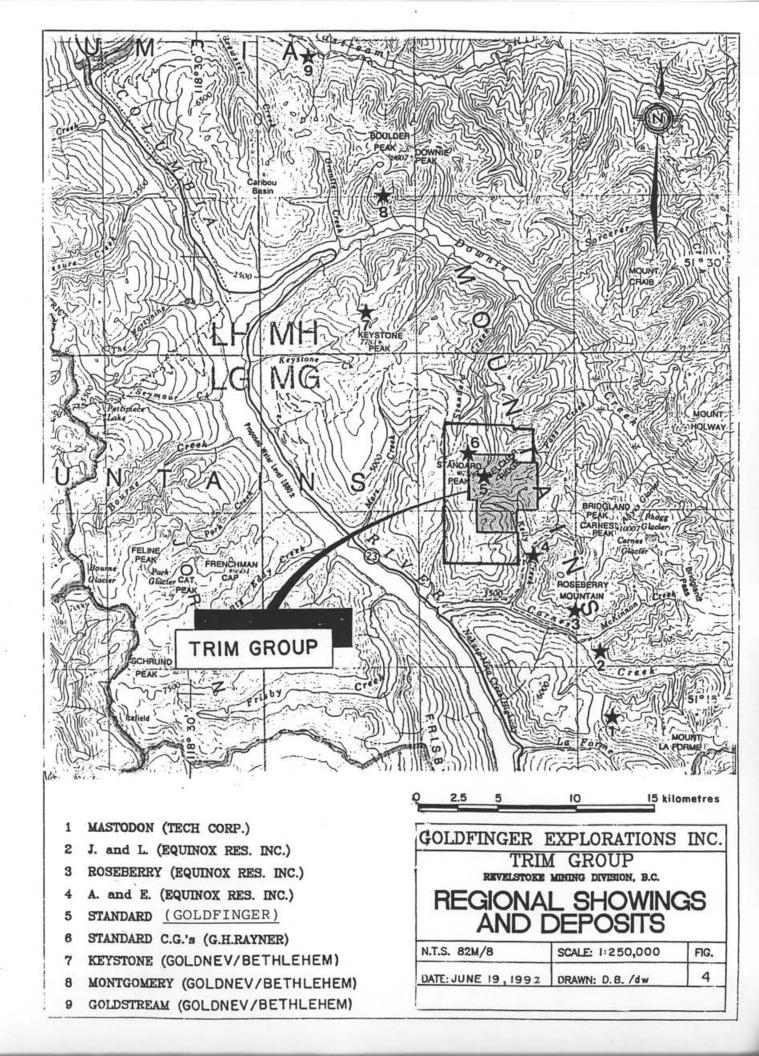


Figure 3. Regional geology, Goldstream area. (Höy 1979)



## Structure (After Hoy, 1979)

- Phase 1- inversion of stratigraphy (Nappe).
- Phase 2- Tight to isoclinal folding with east dipping axial planes and variably plunging fold axes; folding is recumbent in some areas.
- Phase 3- Less intense northeast/vertical trending fold axes and tear faulting resulting in moderate-strong chevron and parasitic folding.

### Proposed environment of deposition

1) Restricted back arc basin south of Goldstream, near or within a large platform,

2) Rift faulting, graben development, and widespread sulphide mineralization-distal concentrations from acidic volcanism,

3) (Uplift?), continued localized mineralization contemporaneous with extrusion of basaltic magma due to deep seated rift faulting

4) Scarp related deepening of basin and thickening and coarsening of sedimentary rocks.

### Regional mineralization types

- Copper, zinc, lead, gold, silver, cadmium, arsenic strataform/stratabound + vein
- 2) Quartz veins with copper, lead, zinc, and gold;
- 3) contact metasomatic (skarn).
- 4) placer gold

Nine showings and mineral deposits are situated within 30 kilometres of the Trim Group (Figure 4). Many have geological characteristics similar to the Standard area. The prospects include, from north to south, the Goldstream, Montgomery, Keystone, Standard, Roseberry, J.@ L., and Mastodon mineral deposits.

## PROPERTY GEOLOGY

The Trim Group lithology may be stratigraphically correlated with the J@L property to the southeast and the Goldstream property to the north. The mappable lithology from the Trim Group is summarized in Table 3. Several phases of folding, and similarities between rock divisions have complicated stratigraphic relationships in this area.

## TABLE 3 PROPERTY GEOLOGY

## <u>Mesozoic-Paleozoic</u> <u>Intrusive Rocks</u>

## Granite porphyry

## <u>Upper Cambrian</u> <u>Metavolcanic-sedimentary Group</u> <u>(+/- Sulphide deposition)</u>

## Lardeau Group

- i) Calcareous graphitic schist, chloritic-sericitic schist, minor dolomite, limestone.
- ii) Massive, dark green chlorite schist, chlorite-biotite-quartz-garnet augen schist, chloritic amphibolite.

Lower Cambrian Metasedimentary Group (+ Sulphide deposition)

+/- Badshot Formation:	Dolomite, limestone.
Mohican Formation:	Graphite(+/- chlorite) quartz-carbonate- mica schist, minor limestone.
Hamill Group:	Quartzite, quartzose schist, limestone, calcareous quartz-sericite-pyrite schist.
	Upper Proterozoic

## Metasedimentary Group

Horsethief Creek Group: Pelitic schist, calcareous phyllite, minor psammite, greenstone.

#### METAMORPHISM

Regional metamorphism of upper greenschist to lower amphibolite facies is noted. The mafic volcanic rocks are massive, highly chloritic phyllites and schists. Hornblende (amphibolite) gneiss occurs in the Standard Basin area (Payne, 1976). Calcsilicates in the form of 1-2mm almandine garnets are typically found within garnet-mica schists.

#### STRUCTURE

Periods of deformation are apparent. There are four or five possible fold axes trending northwards and dipping moderately to the east. The Standard Antiform is traceable from the north end of the Trim property to Kelly Creek, and its' axis trends  $35^0/45^0$  east, with a gentle northward plunge. Schistosity measured at Kelly creek near the core of the Antiform axis, however, indicated a strike of  $290^0$  and dip of about  $75^0$  NE. Schistosity measured along a ridge at 1,670 metres elevation on Trim 4 indicated structures were trending  $100^0/50-70^0$ NE; west and southeast of this point, schistosity measurements are approximately  $300^0/36-42^0$  NE.

<sup>M</sup>apping along Belcher Ridge has confirmed the general structures and rock units as mapped by T. Hoy with the addition of several possible fold axes (Figures 5).

Local variations in structures are evident throughout the property, and include parasitic "S", "Z" and chevron folding and ductile-plastic deformation of sulphides and talcose rocks.

#### MINERALIZATION

Zones of sulphide mineralization have been located within two general rock units:

1.) Graphitic, chloritic, calcareous mica schist/ chloritic amphibolite.

2.) Chloritic, calcareous and graphitic quartz-muscovite-(sericite) schist.

Limestone lenses are common in proximity to the sulphides.

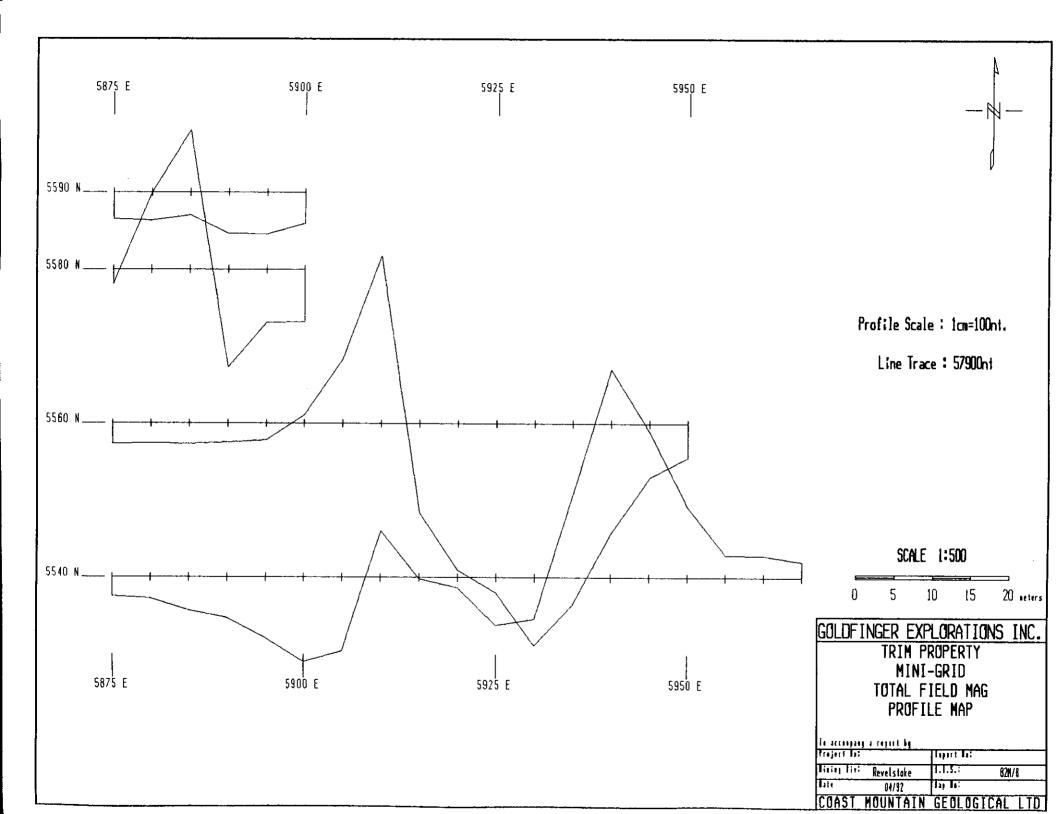
Each of these rock units vary to some degree with progressive (or regressive) sedimentary facies changes apparent in most units. The known sulphide mineralization within these units also vary from pyrite-pyrrhotite(+/-copper-zinc) to arsenopyrite(+/-gold/silver) dominant. Zinc and lead dominant zones are located to the southeast (A.@ E., Yellowjacket, Mastodon; Wright, Weicker, 1989) and northnorthwest (Keystone) of the Trim Group. Pyrite-pyrrhotite-copperzinc zones are also located at Goldstream and J@L properties. Sulphide banding is evident in many samples, although remobilization has destroyed much of the primary structures. Small (1-2mm) pyrite rosettes (porphyroblasts?) are disseminated within the sulphide matrix.

Gold-bearing arsenopyrite zones are found within quartzosegraphitic-sericitic schists at or near a contact with limestone (J@L main zone, Roseberry, Trim 4, Trim 1,); structural and stratigraphic studies suggest that these deposits and showings are within a similar host rock sequence that extends for over 13 kilometres. To date, gold and silver content of the sulphide zones vary from trace levels to a maximum of around 1 oz/t gold. The Standard Mine has reported values of 0.320 oz/t gold with the chalcopyrite-arsenopyrite ore (Min. Mines, 1905).

Sample 92DR-3, taken from an old open cut dump of quartz rich chlorite schist with pyrite, pyrrhotite and chalcopyrite contained 1.64% copper, 1427 ppb gold, 18.3 ppm silver and 1012 ppm zinc.

Approximately 200 metres to the east sample 92DR-4, also from an old trench site, contained 2.92% copper, 1151 ppb gold, 33.3 ppm silver and 2884 ppm zinc (figure 6).

Within the Crown Grants and Trim 1 claim, variable amounts of pyrite with pyrrhotite, chalcopyrite, and sphalerite in a 4:3:<1 ratio, occurs in a predominantly meta-sedimentary sequence of pelitic greywacke (graphitic +/-chlorite calcareous mica schist) and interbedded limestone lying in contact with various types of amphibolite (Payne, 1976). This zone lies along the east limb of the Standard antiform, and has been traced on surface for 1,200 metres, with widths of 0.1 to 3.0 metres. A total of seven drill holes were completed by Westairs and Noranda. These holes traced the zone down dip and along strike for about 130 metres and 200 metres, respectively. SB-1 intersected 3.2 metres containing 1.85% copper and 1% zinc (gold not assayed). Noranda drill hole NS-7 intersected 1.3 metres containing 1.76% copper, 0.24% zinc, and 0.013 oz/t gold. Noranda's surface geochemistry survey indicates copper and zinc values above 100 PPM occur in zones trending northward along the contacts with a limestone unit, and parallel to it.



#### GEOPHYSICS

A magnetometer and Genie-Em survey were undertaken on the Trim claims to test and demonstrate their effectiveness in delineating lithological boundaries and mineralized zones. A Geonics G816 proton procession magnetometer, with the sensor mounted on a 1.2 metre staff, was utilized for the survey. A baseline looping method was employed to determine and correct for diurnal variations. Readings were collected at 25 metre station intervals along the lines, and were shortened to 12.5 metre intervals over anomalous zones, (figures 7, 8). A "minigrid", between lines 55N and 56N, tested a mineralized open cut with 5 metre station intervals, (figure 9). This delineated very local mag highs over the showing and demonstrates the necessity for sufficiently tight station spacing on the Trim property.

A Scintrex Genie HLEM moving source system was used to test for conductive zones. The survey was performed with a Tx-Rx separation of 50 metres. Three frequencies were measured at each station; 337, 1012 and 3037 hz, with a base frequency of 112 hz, (figure 10). Lines 59N and 58N were repeated with a Tx-Rx separation of 75 metres to the conductive anomalies at greater depth, (figures 11, 12).

Geophysical interpretation of the survey data was provided by Syd Visser of SJ Geophysics and is contained in full in appendix B.

### DISCUSSION

The Trim Group is underlain by a series of metavolcanicsedimentary rocks similar in many respects to both the Goldstream mine to the north an the J@L property to the south. The goldbearing arsenopyrite zones in the vicinity of Kelly Creek, have similar host rocks and mineralogical composition (including trace elements) to the J@L Main Zone. The sphalerite-chalcopyritepyrrhotite zones on Standard Mountain have been said to be similar in nature and origin of development to both the Goldstream deposit and those of Ducktown, Tennessee (Payne, 1976). Drilling by Noranda in 1976 on the #2 zone suggested a northward plunge to the mineralization and concluded with a proposal to drill further down dip to the north. The Goldstream mine sulphide zone has been traced for over 1000 metres downplunge (Bottomer, L., 1990).

Remobilization of sulphide zones into the hinge zones appears to be evident. Limestone contacts with chloritic or quartzose horizons appears to be conducive to the original development of sulphide lenses, with remobilization and concentration of sulphides into axial planes of perhaps the last two major folding events. As the deposition of sulphide minerals took place, it appears that both stratigraphically lateral and vertical zonation with respect to base metal and precious metal values ocurred. Therefore in a specific mineralized horizon, the precious/base metal content may increase or decrease in a particular direction. It is possible that similar base metal dominant (zinc-lead) zones exist within the Trim Group as are found on the Keystone, J@L and the Mastodon properties. The zinc soil anomalies located near the headwaters of Standard Creek and northwards are an indication of this type of mineralization.

#### CONCLUSIONS

Several stratabound sulphide zones occur within the Trim Group. The nature of mineralization and stratigraphic position of the sulphide zones are different, suggesting both stratigraphically lateral and vertical metal zonation. Current information suggests gold bearing arsenopyrite dominant zones occur within Lower Cambrian calcareous quartz-mica schists, and quartzite of the Hamill Group, and sphalerite-chalcopyrite-pyrrhotite(+gold/silver) zones occur within chloritic metavolcanic rocks of the upper Cambrian Lardeau Group. Proximity to, or direct contact with limestone is common in both cases.

Several phases of deformation are evident in the region. Isoclinal folds trend north with east dipping axial planes, and contain parasitic folding on limbs. These folds may also be folded again by more open, northeast trending folds with vertical axes. Sulphide concentration within axial planes occurs on the Trim property.

Several anomalous targets were generated by the geophysical surveys that need to be followed up in a summer-fall program.

### RECOMMENDATIONS

The recommended method of exploration on the Trim Claims includes soil geochemistry, rock geochemistry, Magnetometer and multi channel deep E-M geophysics, geological mapping, surface trenching and drilling. There are several potential massive sulphide-bearing horizons, and attention to structures and mineralogical trends will help to understand their relationship, locate new showings and define favorable locations of blind targets.

A two phase program is recommended. The first phase should be to outline known sulphide zones, and others that may be present, using geochemistry, geophysics, and mapping. Favorable areas should then be trenched. A second phase program of 1,500 metres of diamond drilling should then test the significant zones outlined.

# STATEMENT OF COSTS

C. Basil: Geophysical Technician/Proje 8 days @ \$260/day		2080.00
D. Ridley: Geophysical Technician/Pros 8 days @ \$235/day		1840.00
A. Molnar: Geophysical Technician/Pros 8 days @ \$235/day	spector	1840.00
Mob/Demob		1730.00
Vehicle Rental: 8 days @ \$35/day 195 kms @ \$0.35/km		280.00 68.25
Genie HLEM Rental: 7 days @ 175/day Magnetometer Rental: 7 days @ 25/day		$1225.00 \\ 175.00$
Helicopter: 8.1hrs @ \$750/hr		6075.00
Survey Supplies		300.00
Room and Board: 24 mandays @ \$70/manda	ay	1680.00
Rock Samples: ICP and Cu Assays, 4 @	\$25	100.00
Report, Drafting, Reproductions		1100.00
Geophysical Consulting	Subtotal 10% Management Subtotal 7% GST <b>TOTAL</b>	$     \begin{array}{r} 650.00 \\     19,143.25 \\     \underline{1,914.33} \\     21,057.58 \\     \underline{1,474.03} \\     $22,531.61 \\   \end{array} $
	¢16 021 61	

TRIM GROUP TOTAL EXPENDITURES: \$16,031.61 TRIM 5 GROUP TOTAL EXPENDITURES: \$6,500.00

# 12.

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# 1992 PROPOSED BUDGET PHASE 1

For a program of geochemistry, geophysics and mapping/sampling:

Personel: 2 geologists 1 technologist 1 geophysiscs+equipment Supervision	\$ 7,750.00 \$ 3,000.00 \$ 5,000.00 \$ 4,000.00
Preparation/correspondence	\$ 2,000.00
Mob/demob	\$ 2,500.00
Room and Board	\$ 2,000.00
Helicopter	\$14,500.00
Supplies	\$ 2,000.00
Rentals	\$   500.00 \$   150.00
Communications	\$ 150.00
Assays	\$ 8,000.00
Report	\$ 4,000.00
Misc.	\$ 2,000.00
Contingency @10%	<u>\$ 5,740.00</u>
subtotal:	\$63,140.00

Total direct costs:

\$63,140.00

#### STATEMENT OF QUALIFICATIONS

I, CHRISTOPHER BASIL, of 16-1609 Harwood Street, Vancouver, B.C. do hereby certify that:

I am presently employed by Coast Mountain Geological Ltd. of Vancouver, as Vice President and Project Manager.

I have completed 2.5 years of a physics major at the University of Vermont and McGill University, Montreal.

I have successfully completed 204 hours of instruction in Advanced Prospecting through Malaspina College.

I have been active, full time, in my profession managing exploration programs, conducting geophysical surveys and interpreting the results for 14 years in Canada, U.S. and Australia.

I am a member of the Britsh Columbia Geophysical Society.

I personally conducted and managed the geophysical programs discussed in this report.

I have no interest in the subject properties or in Goldfinger Explorations, nor do I expect to recieve any.

Dated at Vancouver, this 14th day of July, 1992.

#### REFERENCES

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Bottomer, L.R., (1990), 1990 Snapshot Review Form: Goldstream Mine, Prime Explorations Ltd.

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Wright, J.H., Weicker, R.F., Equinox Resources Ltd., Report on Diamond Drilling and Metallurgical Testwork, J@L Property, British Columbia, December, 1989. Assessment Report 19469. APPENDIX A

# ROCK SAMPLE DESCRIPTIONS

# AND ASSAYS

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### ROCK SAMPLE DESCRIPTIONS

- 92DR-1 55+85N/58+95E; Quartz-rich dump material with up to 5% pyrite; minor chalcopyrite-sphalerite?
- 92DR-2 same open cut dump as DR-1; massive pyrrhotite with up to 5% chalcopyrite in chlorite schist
- 92DR-3 location as above; pyrite, also 3-5% chalcopyrite
- 92DR-4 55+40N/61+35E; old trench; chalcopyrite and pyrite, massive sulphide. This trench appears to be more copper rich.

### PROSPECTOR'S OBSERVATIONS

N.B. Portions of showing DR-1,2,3 contain native copper and bornite probable due to copper enrichment due to weathering. The chlorite (serpentinite?) schist may represent footwall of the sulphide pod. This was found downslope (assumed to underlie the massive sulphide). Exposure is very poor due to snow cover. The chlorite-serpentenite-schist is magnetic and shows a good mag signature. If it is footwall alteration, it may be possible to trace the extent with a "tight" mag survey.

Quartz veining seems to cut through all portions of the sulphide pod. They are similarly mineralized. A good portion of the mineralization is nonmagnetic, although the massive portions are quite magnetic.

The mineralized zone trends approximately 150 degrees and dips moderately to the northeast.



	REPORT: V92-0	10432 <b>.0</b> ( COM	PLETE )	A DIVISION OF INCHCAPE INSPECTION & TES				DA	<u>TE PRINTE</u> OJECT: TR	<u>d: 22-hav</u> 11192-1	Y-92 Page 1a		
	SAMPLE NUMBER	ELEHENT UNITS	Au PP8	Ag PPH	Cu PPH	РЬ РРН	Zn PPH	Mo PPM	Ni PPH	Со 2РМ	Cd PPH	Bi PPM	As PPN
-	R2 92-DR-1 R2 92-DR-2 R2 92-DR-3 R2 92-DR-4		128 57 1427 1151	14.9 16.4 18.3 33.3	10250 13404 14051 >20000	11 <2 <2 80	798 1524 1012 2884	10 15 13 12	39 148 55 29	132 567 571 144	<1.0 <1.0 <1.0 <1.0	<5 <5 <5 846	116 128 158 143
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	IMPLE JMBER	ELEMENT UNITS	Sb PPM	Hg PPM	Fe PCT	Mn PPM	Te PPM	8a PPM	Cr P <b>PM</b>	V PPM	Sn PPM	929M	La PPM
R	2 92-DR-1 2 92-DR-2	<u>.                                    </u>	<5 <5	0.174	>10.00 >10.00	1235 450	87 119	5 <2	114 45	54 51	49 55	<20 <20	<1 <1
	2 92-DR-3 2 92-DR-4		<5 <5	0.273 0.828		614 403	109 105	3 5	68 128	136 114	52 53	<20 <20	<1 3
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	REPORT: V92-0	0432.0 ( CO	MPLETE )	-				P	ATE PRINTED: 22-NAY-9 Roject: TRIH92-1	PAGE 1C
	SAMPLE NUMBER	ELEMENT UNITS	A1 PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM	
	R2 92-DR-1 R2 92-DR-2 R2 92-DR-3 R2 92-DR-4		1,22 0,82 >10.00 >10.00	1.56 0.52 1.18 1.32	>10.00 0.70 1.32 0.25	0.03 <0.01 0.02 0.02	<0.01 <0.01 <0.01 <0.01 <0.01	177 33 67 11	<1 4 6 6	
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 REPORT: V92-0	0432.0 ( COM	PLETE )					PR	TE PRINTE OJECT: TR	RIM92-1		PAGE 3A	
SAMPLE NUMBER	ELEMENT UNITS	Au PP8	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPH	Cd PPM	Bi PPM	As PPM
92-DR-3 Duplicate		1427 1467	18.3 19.3	14051 14368	<2 <2	1012 1171	13 12	55 57	571 594	<1.0 <1.0	<5 <5	1 <b>58</b> 161
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-	REPORT: V92-	00432.0 ( COM	PLETE )					PS	OJECT: IR	D: 22-MAY 11092-1		PAGE 38	
	SAMPLE NUMBER	ELEMENT UNITS	Sb PPM	Hg PPN	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	N PPM	La PPM
	92-DR-3 Duplicate		<5 <5	0.273 0.298	>10.00 >10.00	614 629	1 <b>09</b> 116	3 3	68 70	136 140	52 59	<20 <20	<1 <1
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	REPORT: V92-0	0432.0 ( CC	MPLETE )					DA PS	TE PRINTED	<u>: 22-MAY-92</u> M92-1	PAGE	3C
	SAMPLE NUMBER	ELEMENT UNITS	A1 PCT	Mg PCT	Ca PCT	Na PCT	K PCT	Sr PPM	Y PPM			
	92-DR-3 Duplicate		>10.00 >10.00	1.18 1.22	1.32 1.37	0.02 0.02	<0.01 <0.01	67 68	б б			
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Certificate of Analysis

## A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: V92-	10432 6 / 00	HPLFTE )		DATE PRINTED: 29-MA PROJECT: TRIM92-1	PAGE 1
ALFUAT: Y32-	JU432.0 ( CUF			PROJECT: TRIM92-1	
SAMPLE	ELEMENT	Cu			
NUMBER	UNITS	PCT			
R2 92-DR-1		1.12			
R2 92-DR-2		1.61			
R2 92-DR-3		1.64	<i>,</i>		
R2 92-DR-4		2.92			
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APPENDIX B

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# GEOPHYSICAL INTERPRETATION

# GENIE-EM AND MAGNETOMETER

# SURVEY

# ON THE

# TRIM PROPERTY

# FOR

# GOLDFINGER EXPLORATIONS INC.

# SURVEY BY

# COAST MOUNTAIN GEOLOGICAL LTD.

REVELSTOKE M.D., B.C. N.T.S. 82M/8

July 1992

Report By Syd Visser SJ Geophysics Ltd.

## TABLE OF CONTENTS

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INTRODUCTION	1
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DISCUSSION	1
CONCLUSION	4

APPENDIX I Statement of Qualifications

## INTRODUCTION

The following is a discussion of the of the geophysical data, in plotted format, presented to SJ Geophysics Ltd. by Chris Basil, Coast Mountain Geological Ltd. The Geophysical data consisted of GENIE-EM and magnetometer data collected by Coast Mountain Geological Ltd. over a small portion of the Trim Property. The Trim Property is located 58 Km north of Revelstoke, B.C. on the east side of the Columbia lake, in the Selkerk Mountains.

### DATA PRESENTATION

Plate G1	Genie &	Magnetometer	Survey
	Compilat	ion Map	

## DISCUSSION

The GENIE-EM data, presented by Coast Mountain Geological Ltd., consisted of three frequency ratios (3037/112, 1012/112 and 337/112) surveyed with a horizontal coil configuration at a 50M coil separation (data was considered to noisy at 100M coil separation). Two lines, 5800N and 5900N, were surveyed with a 75M coil separation. Because of logistical problems and time constraints reading were only taken every 25m along the lines for the majority of the survey. The depth penetration of a HLEM survey is generally considered to be approx., 50% of the coil separation depending on the noise level therefore a 50M coil separation can easily miss conductors in areas of deep overburden, extensive frost heaving or weathering. Because of a number of closely spaced conductors 50M coil separation is useful in separation of the anomalies but having only two data points in a 50m coil separation makes dip, location and conductivity calculations nearly impossible.

The GENIE survey indicates a number of weak to fairly strong (1 to 10mhos) conductors throughout the survey area as shown on the compilation map Plate G1. Anomaly G1 is a fairly strong anomaly which appears to be the western edge of a conductive rock unit (possibly graphitic) or a very shallow (relative to topography) easterly dipping conductor. The survey did not extend enough to the east to determine the location of the eastern edge of this conductive zone. There are a number of weaker anomalies (G1a and G1b) within this conductive zone which could be due to separate conductive layers or due to faulting within the zone. The anomaly G1c is likely an extension of anomaly G1.

The magnetic response is very uniform in the above region suggesting the there is little magnetite and or pyrrhotite associated with these conductors and conductive zone. This uniform magnetic response is typical of sedimentary rocks.

The anomaly G2 appears to be two medium to good semiparallel anomalies with very little strike length. It is difficult to say if these anomalies are directly related to the nearby magnetic anomalies. If the two anomalies are due to the western and eastern edges of a flat lying conductor then the magnetic anomaly would be related and likely due to a combination of pyrrhotite and magnetite. This anomaly should definitely be investigated further for sulfide mineralization. There is some indication that this anomaly extends further to the east but that the depth to top of the conductor quickly reached the depth limitation of the survey.

The anomaly G3 appears to be a relatively weak conductive zone that is shallow on lines 5500N to lines 5700N and then deepens and possible becomes less conductive to the north. It is very similar to anomaly G1 except that it

2

appears to be slightly less conductive (although this is a problem with the GENIE normalization since a lower amplitude may mean more conductive). There is no distinctive eastern edge to this conductive zone therefore it is assumed to be due to a shallow easterly dipping conductive layer. There is a significant magnetic response on both the eastern and western side of this anomaly. The cause and significance of these magnetic anomalies are not clear and should be discussed in detail with the project geologist. As is indicated by the Mini grid surveyed with the magnetometer between line 5500N and 6000N and 5875E and 5975E, the magnetic anomalies can be very local in nature typical of volcanic rocks.

The GENIE survey indicated that there are a number of near surface conductors of which most such as G1 and G3 are likely regional and therefore likely due to graphitic rocks. If this is the case than using geophysical techniques to search for better deep conductors becomes difficult. It is therefore essential to use very accurate grids and EM techniques such as MAX-MIN (up to depth of 75M) or UTEM (>100M) which give the ability to measure the inphase component of low frequencies or measure the late time accurately to separate the weak regional effects from local good conductors.

All the conductors especially to shorter strike length conductors G1a, G1b and G2 should be investigated for possible mineralization.

## CONCLUSION

The GENIE-EM survey indicated two regional conductors which are likely due to graphitic rocks. These regional conductors along with the short strike length conductors should be correlated closely to the local geology and data to evaluate the possibility geochemical of mineralization. The magnetic data indicated a uniform magnetic response on the eastern part of the grid suggesting sedimentary rock. The western part of the grid was magnetically more active. There appeared to be no direct correlation between the magnetic and EM data with the exception of the small anomaly near the central part of the grid. Because of the regional weak EM conductors it is very important to collect very good low frequency or late time EM data in the search of any deeper targets.

> Syd Visser F.G.A.C. Geophysicist

SJ Seophysics Ltd.

APPENDIX I

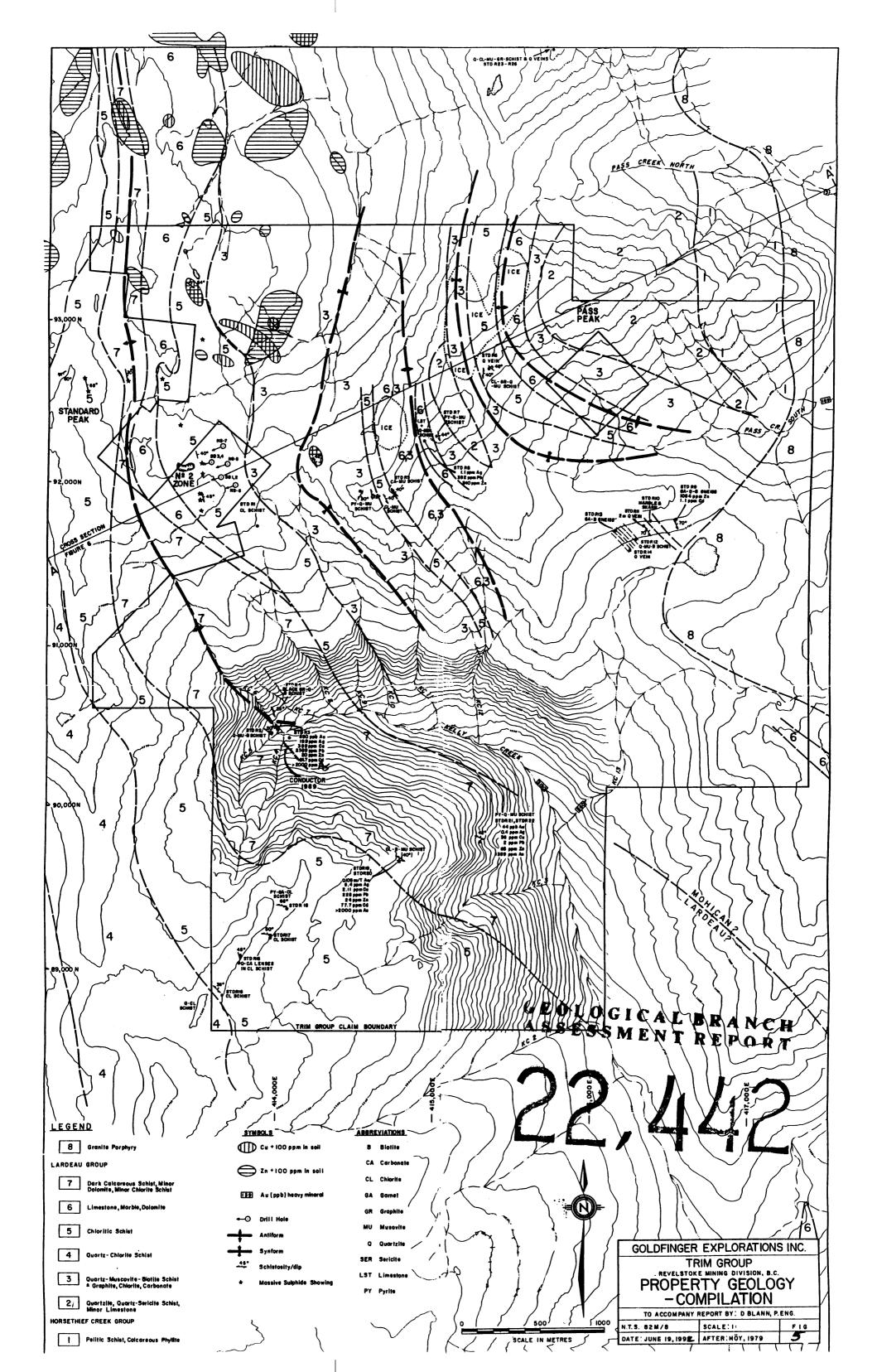
SJ GEOPHYSICS LTD. 11762-94TH AVE DELTA, B.C. CANADA V4C 387 PH (604) 582-1100 FAX. (604) 589-7466

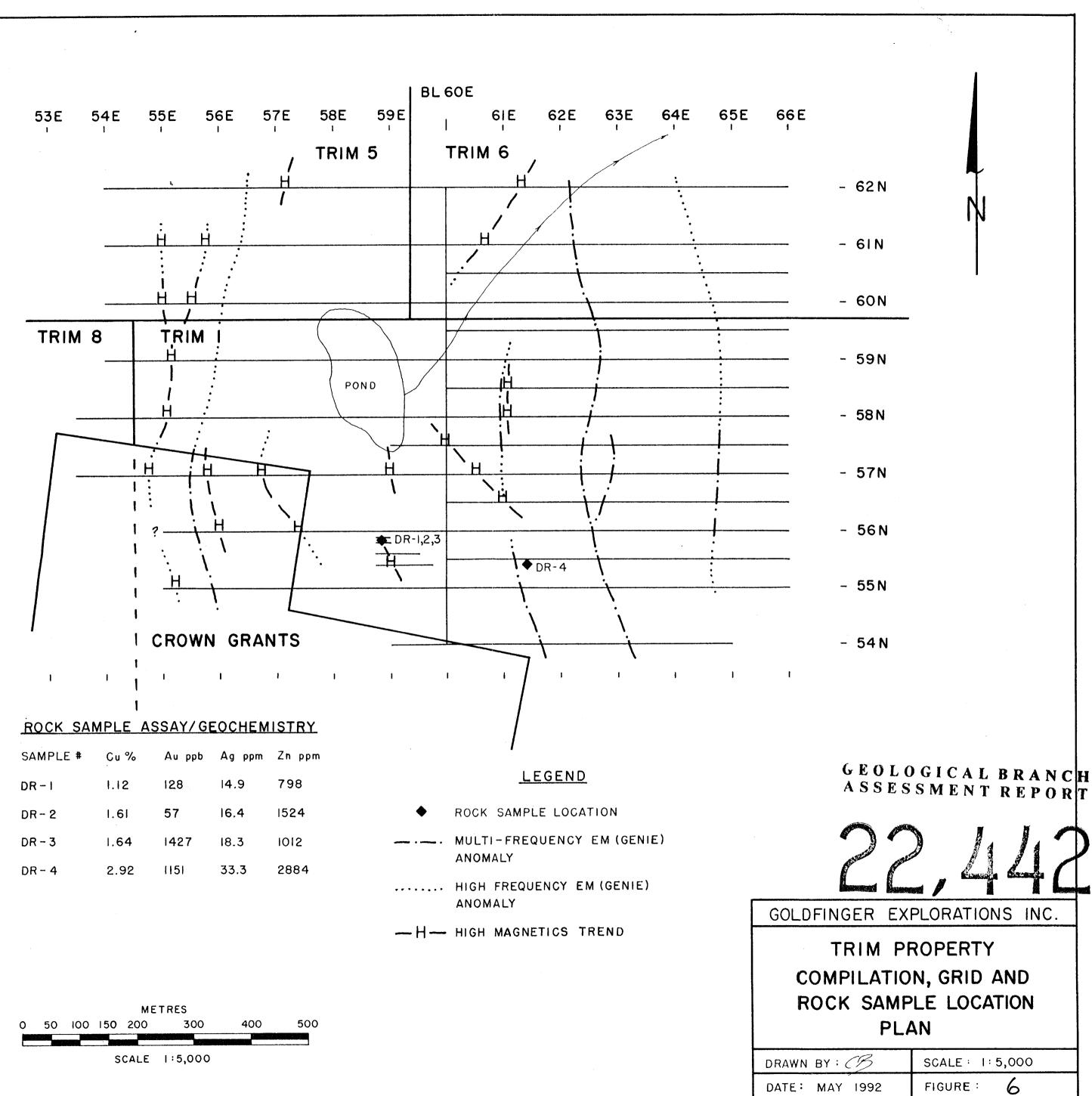
## STATEMENT OF QUALIFICATIONS

I, Syd J. Visser, of 11762 94th Avenue, Delta, British Columbia, hereby certify that,

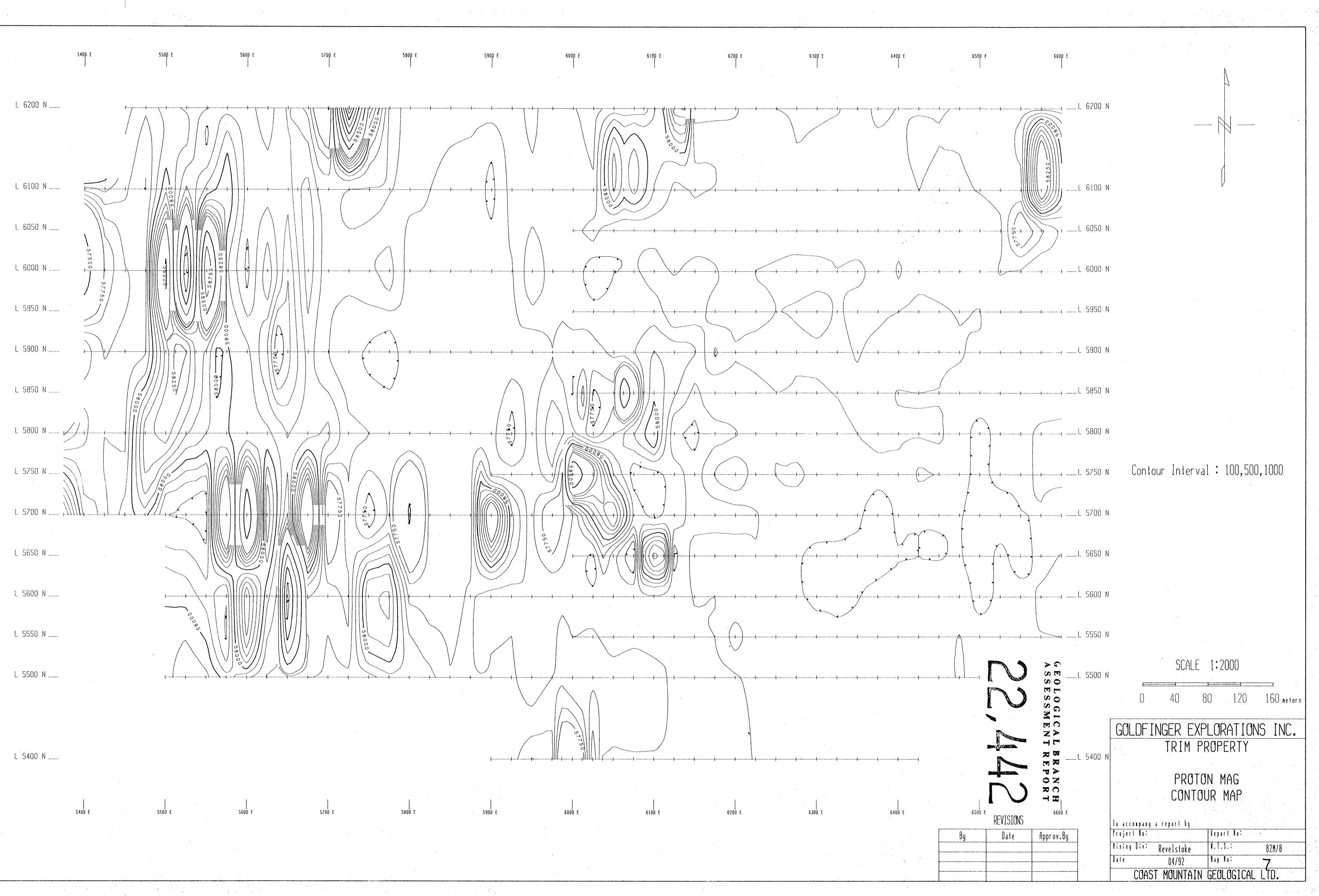
- 1) I am a graduate from the University of British Columbia, 1981, where I obtained a B.Sc. (Hon.) Degree in Geology and Geophysics.
- 2) I am a graduate from Haileybury School of Mines, 1971.
- 3) I have been engaged in mining exploration since 1968.
- 4) I am a Fellow of the Geological Association of Canada.

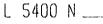
Syd J. Visser, B.Sc., F.G.A.C. Geophysicist

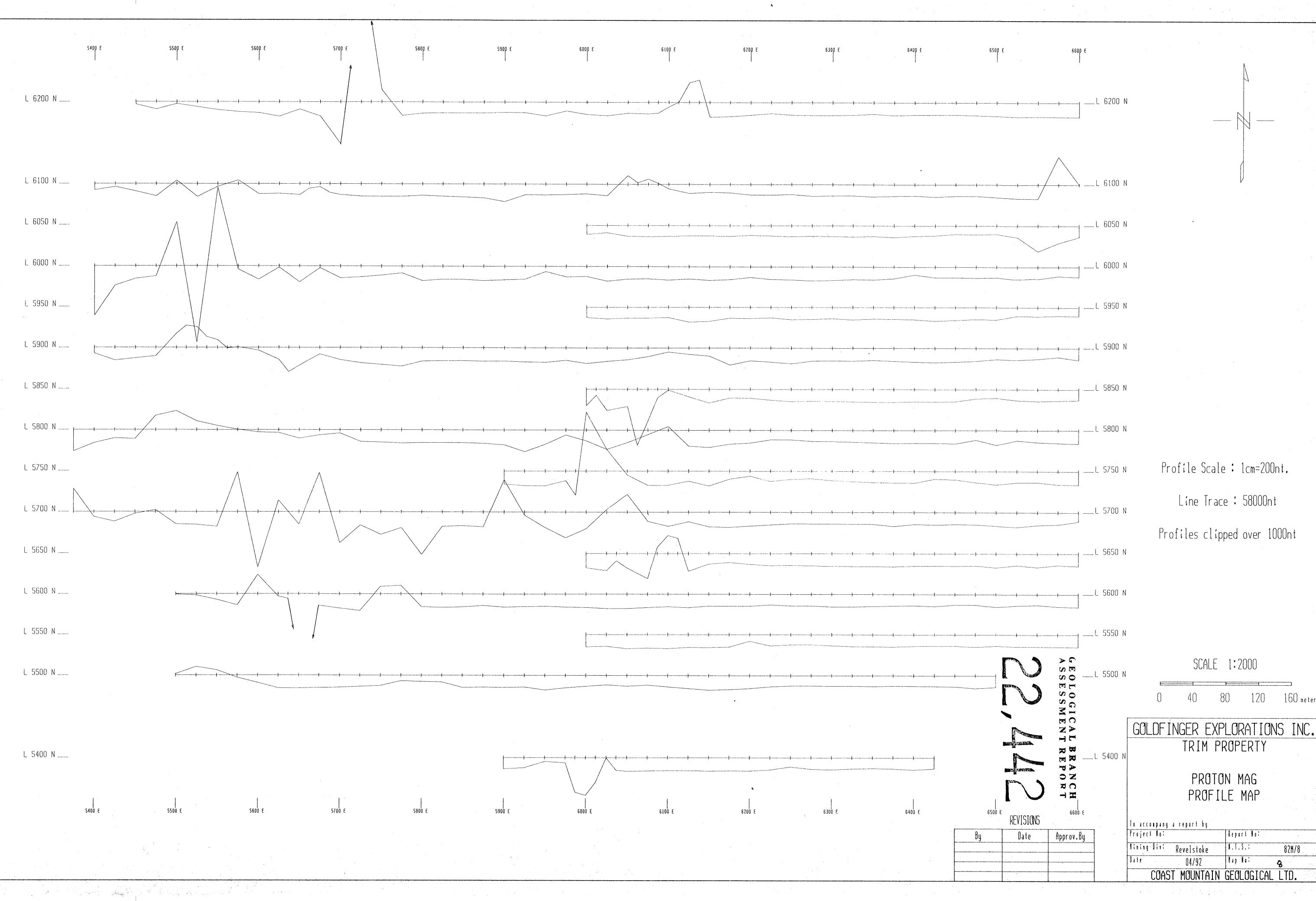




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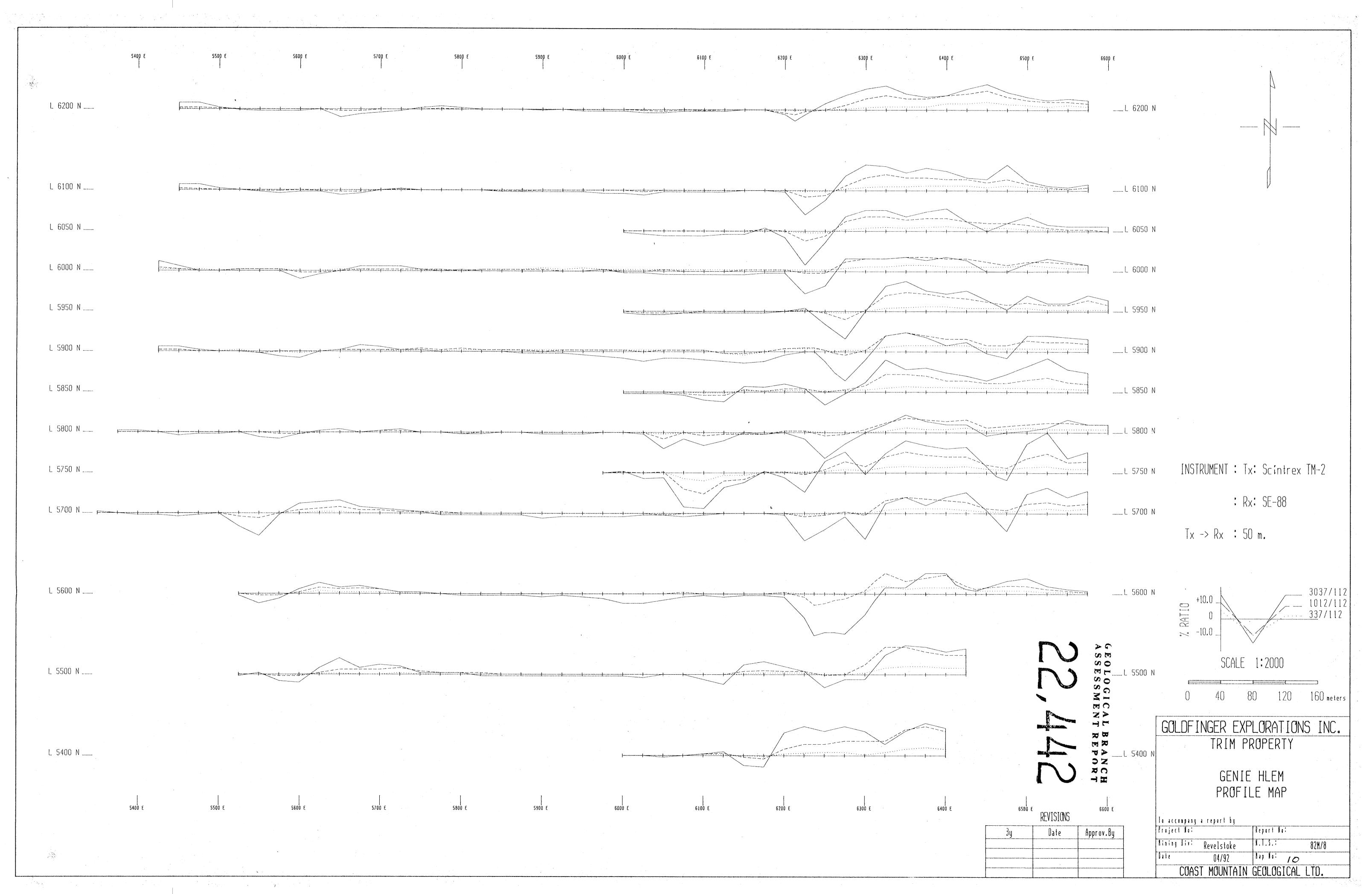
TRIM PROPERTY PROTON MAG PROFILE MAP To accompany a report by Report No: Project No: Mining Viv: Revelstoke N.I.S.; 82M/8 Date Nap No: 04/92 ୍ରୁ COAST MOUNTAIN GEOLOGICAL LTD 

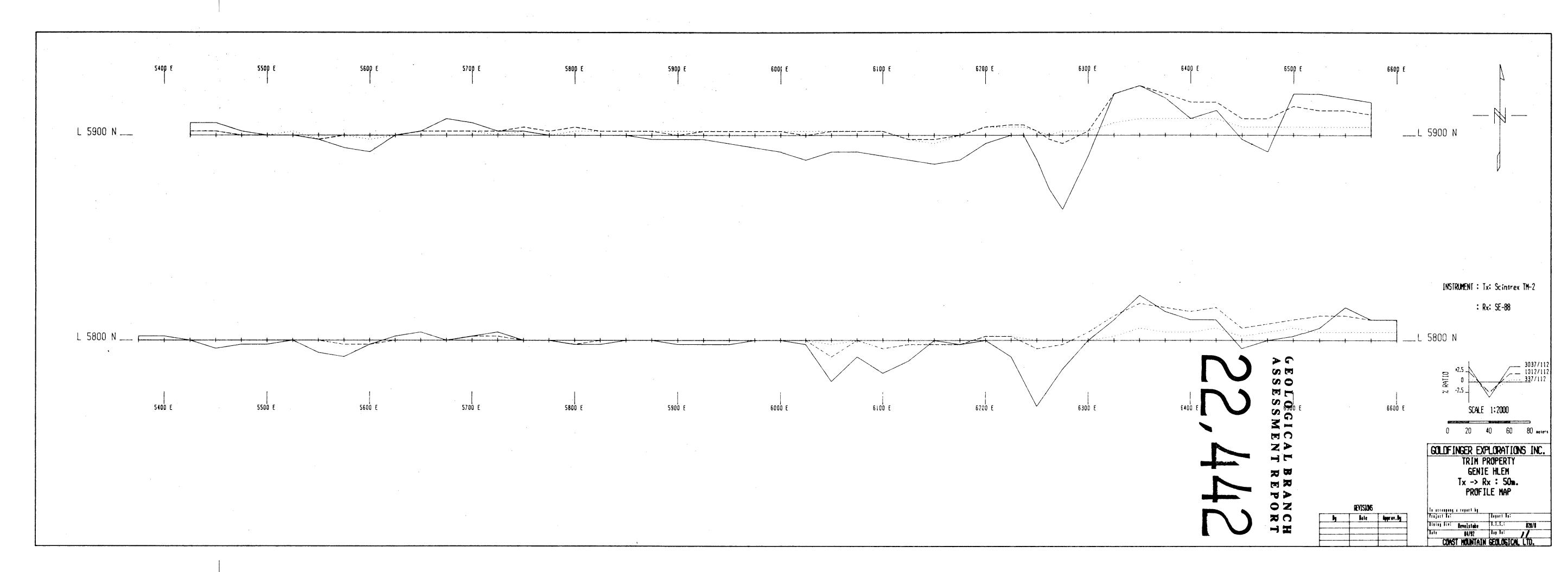
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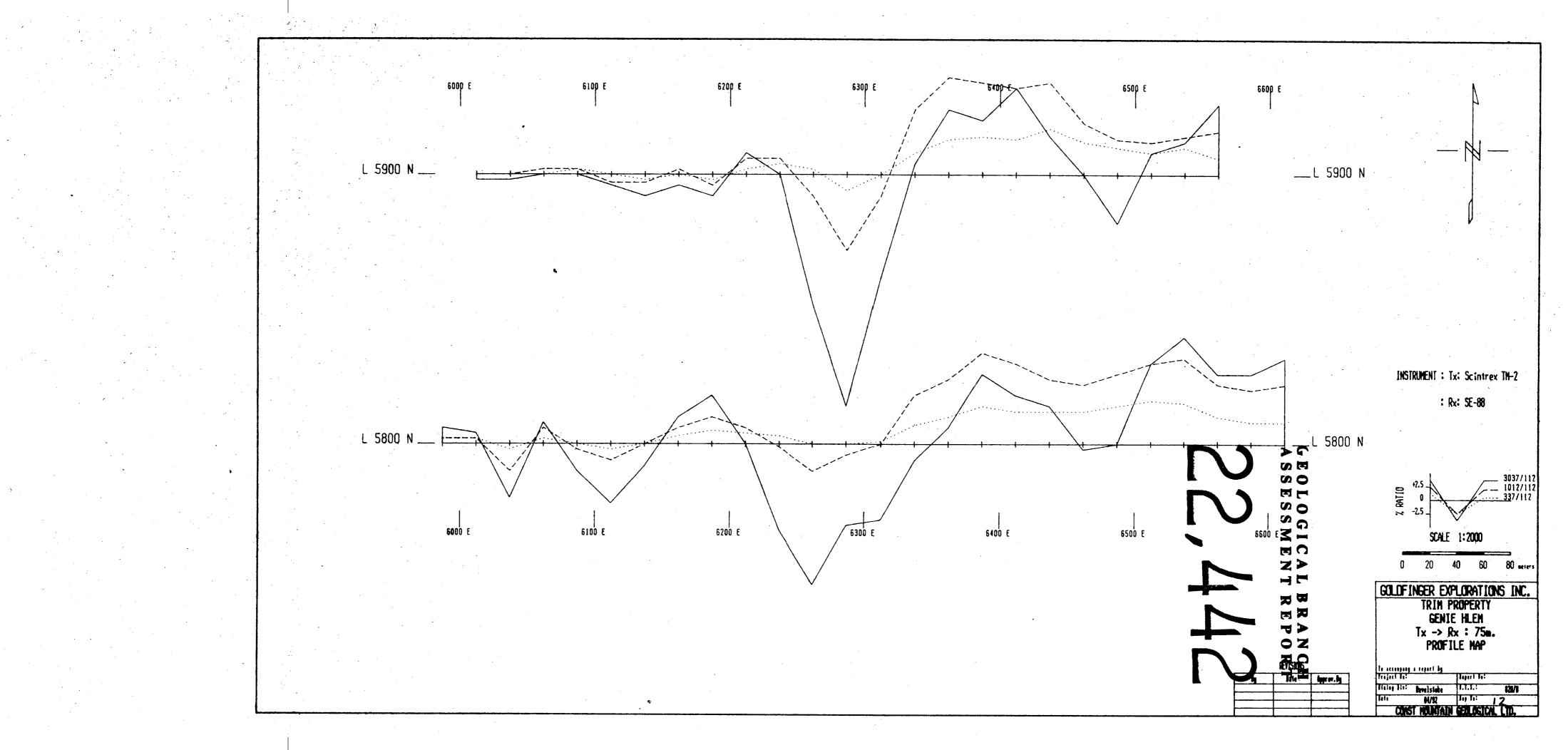
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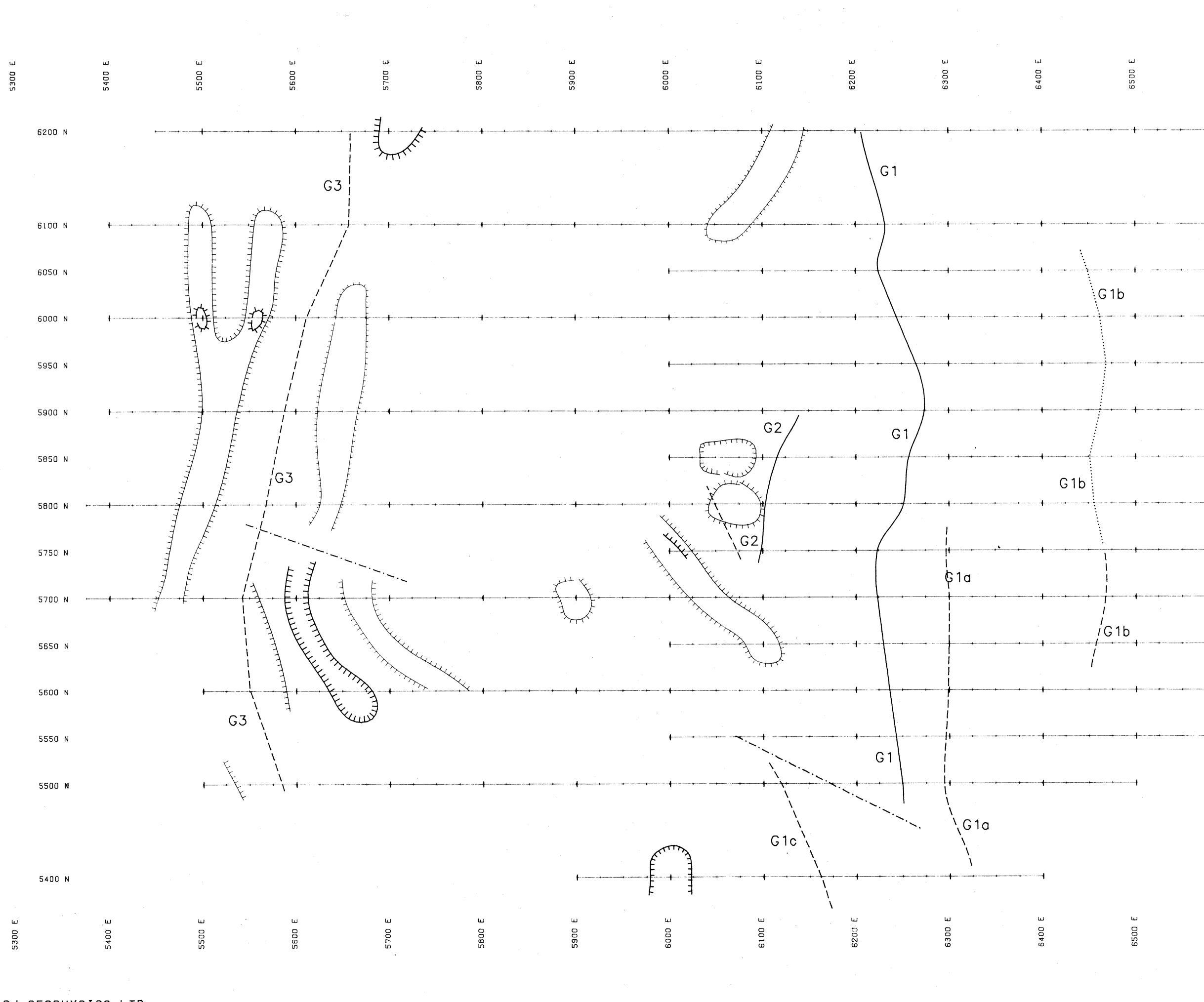
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SJ GEOPHYSICS LTD.

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