

GEOLOGICAL AND GEOPHYSICAL REPORT  
 ON  
 MAGNETOMETER AND VLF - ELECTRO - MAGNETIC SURVEY  
 ON THE  
 DILYS GROUP  
 FOR  
 CELEBRITY MINING CORP  
 OMINECA M.D. B.C.



July, 1980.

W.G.Timmins Explorations & Development Ltd.  
W.G.Timmins P.Geol.

Columbia Geophysical Services Ltd.  
Tom Rolston.

LOCATION: North of the S.E. end of Tagetochlain  
(Poplar) Lake

:53<sup>0</sup> N.LAT. 126<sup>0</sup> W.Long.

:NTS 93E/15W. 93L/2W

WRITTEN FOR: Celebrity Mining Corp

504-475 Howe St.

Vancouver B.C.

BY: Tom Rolston

Columbia Geophysical Services Ltd.

7050 Halligan St

South Burnaby B.C.

AND: W.G.Timmins P.Geol.

W.G.Timmins Exploration & Development Ltd.

201 909 5 Avenue S.W.

Calgary, Alberta.

Dated July, 1980.

**W. G. TIMMINS EXPLORATION & DEVELOPMENT LTD.**

**CONSULTING GEOLOGISTS**

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## SUMMARY

During the months of April 15 to 30, and May 12 to June 12 1980, a survey grid was established and a combined magnetometer and VLF-EM survey was conducted over the 38 units Dilys Claim Group by Columbia Geophysical Services Ltd. supervised by J. Radovich and T. Rolston. A geological investigation was carried out by W.G. Timmins of W.G. Timmins Exploration and Development Ltd. on July 4, 1980.

The property is in close proximity to that of Utah Mines Ltd. adjoining to the west where exploration has been carried out on a porphyry copper deposit. The magnetic survey was successful in outlining the geological lithology as to faulting, shearing and geological boundaries and contacts.

The VLF-EM survey produced numerous conductors which appear to be caused by water-saturated non-mineralized shear zones. There is very little correlation between the magnetic and VLF-EM data therefore EM interpretation is limited.

A programme consisting of I.P. surveys and geological mapping would allow for a more analytical interpretation of both EM and magnetic data, and is recommended at a total estimated cost of \$40,000.00.

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INTRODUCTION

This report discusses the survey procedure, compilation of data, and interpretation of results of a magnetometer and VLF-EM survey conducted over the Dilys Group of 38 units located at Poplar Lake in the Omineca M.D. B.C., property owned by Celebrity Mining Corp. of Vancouver B.C.

A total of 35 line kilometers of combined grid, magnetometer and electromagnetic survey was conducted by Columbia Geophysical Services Ltd., supervised by Tom Rolston, with crew chief Joe Radovich and a two man crew, a brief geological investigation over portions of the claim group was carried out by W.G. Timmins.

The objective of the surveys was to locate the previous airborne magnetic and electromagnetic anomalies (1976) on the ground, and determine their causative sources. The primary over-all objective, was to locate probable zones of sulphide mineralization similar to that of the nearby Utah Mines property adjoining the Dilys Group on the west, or the Nadina Silver Queen property a few kilometers to the north east.

PROPERTY, LOCATION AND ACCESS

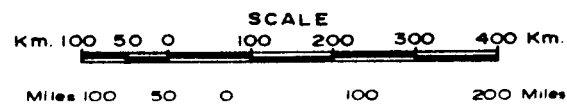
The property consists of 2 claims staked under the modified grid system, totalling 38 units as follows:

<u>CLAIM NAME</u>	<u>RECORD NO.</u>	<u>NO.of UNITS</u>	<u>EXPIRY DATE</u>
Dilys	1787	20	June 15 80/81
Tom 3	1790	18	June 15 80/81

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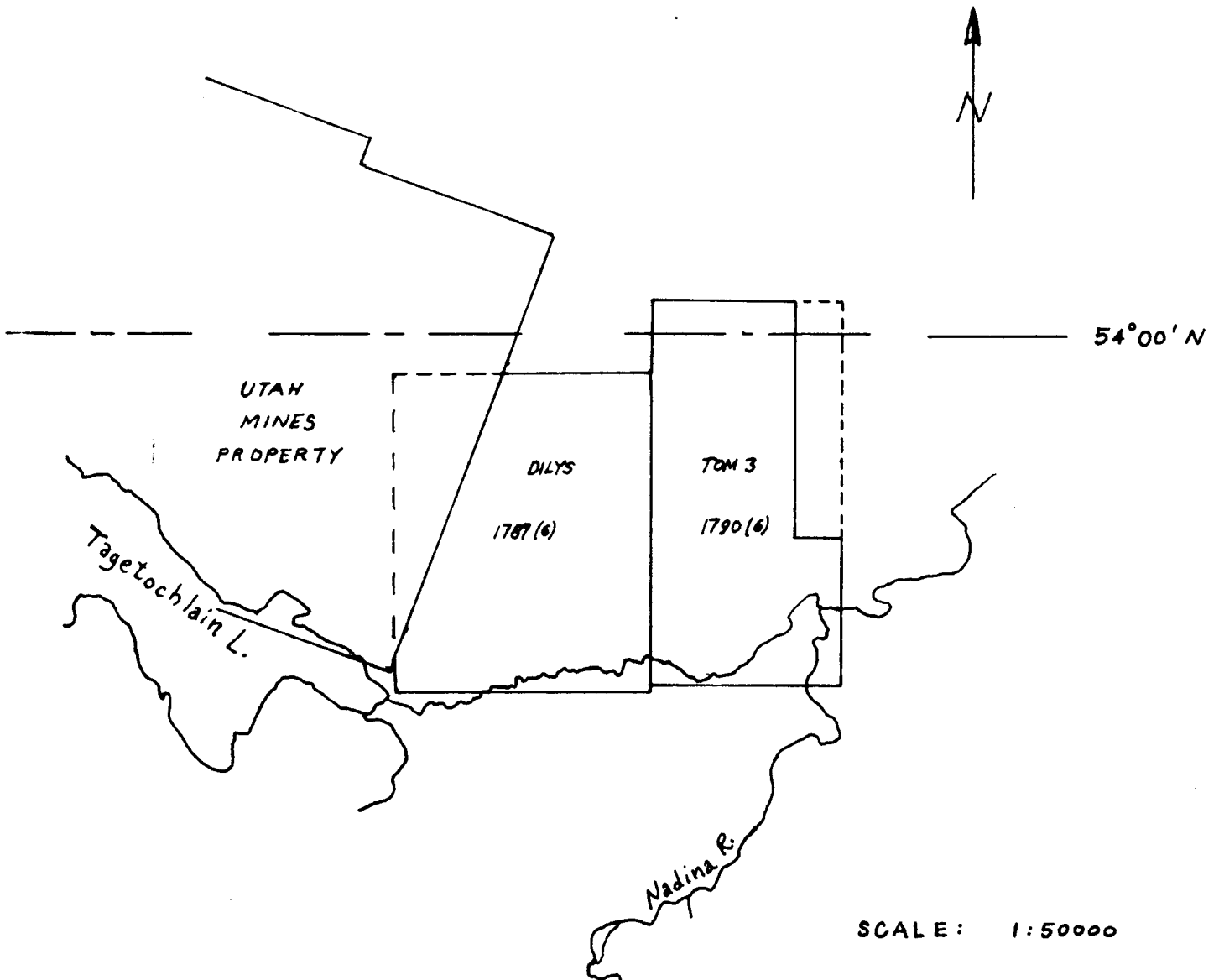
**CELEBRITY MINING CORP.**  
DILYS GROUP, POPLAR LAKE Area,  
Omenica MD. B.C.



# CELEBRITY MINING CORP.

## Tagetochlain Lake Property

OMINECA M.D., B.C.



The property is located north of the south east end of Tagetochlain (Poplar) Lake approximately 45 km S 12° W. of the town of Houston B.C. in the Omineca M.D. B.C. Geographical co-ordinates are 53° N.Lat 126° W.Long, NTS.93E/15W and 93L/2W.

Access to the property is via the Houston - Tahtsa Lake gravel road which runs through the eastern boundary of Tom 3 claim along the west side of Nadina River. The claim group is approximately 70 km along this road from Houston B.C.

#### PHYSIOGRAPHY

The Dilys group is found within the physiographic unit know as the Nechako plateau which is an area of low relief with great expanses of flat or gently rolling country. The plateau surface lies between 1000 m and 2000 m elevation. The plateau was occupied by ice, which marked the surface with grooves and drumlin like ridges which are parallel to the ice flow. Numerous depressions left on the plateau surface after the ice retreated are now occupied by myriads of lakes and swamps. Glacial drift is widespread and a high percentage of the bedrock is obscured.

The Dilys Group is found within the Nadina river valley with elevations varying from 800 - 1150 metres A.S.L. Water is plentiful in the area from Tagetochlain Lake, the Nadina river and a few small streams, lakes and swamps on the property.

The area is moderately forested with fir, spruce and poplar with the underbrush being minor. Some areas

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on the property are covered by grazing land, also swamp type vegetation occurs over much of the low areas.

#### HISTORY OF PREVIOUS WORK

There has been considerable exploration work carried out on the mineral claims in the immediate area with some encouraging results. Very little exploration has been conducted over the Dilys Group as follows:

Soil samples (reconnaissance) were taken along the road during July, 1976. These were analysed for Cu, Mo, and Ag, with some positive results on the Dilys and Tom 3 claims.

During September 1976 a combined airborne magnetometer and VLF electromagnetic survey to map geological lithology was carried out.

During the 1977 field season some limited prospecting and hand drilling, blasting and trenching was carried out on two showings on the southern part of Dilys claim indicating minor sulphide mineralization. The claims were relocated June 1979 and acquired by Celebrity Mining Corp. in Jan, 1980.

#### REGIONAL AND LOCAL GEOLOGY ( from Utah Mines assesment reports.)

The property is underlain by Jurassic Hazelton sediments and volcanics which have been intruded by acidic to intermediate coast intrusives. Mineralization on the Utah property is mainly pyrite, chalcopyrite, and molybdenite occurring as fracture-fillings and disseminations within the Hazelton argillites. That on the Nadina Silver Queen property is pyrite, sphalerite, chalcopyrite,

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galena, tennantite and specular hematite occurring in fissure- filling veins mainly within a microdiorite sill. Though the Dilys Group has not been geologically mapped, some mineralization has been found.

LITHOLOGY ( from Utah Mines assesment reports.)

The oldest rocks of the area are those of the Jurassic Hazelton assemblage and are composed of both volcanic and sedimentary rocks.

The Utah geologists on their property have subdivided this group into three units. The lower volcanic unit, exposed in the northwest of their property, consists of andesitic tuff and lapilli tuff, agglomerates, and andesite-dacite flows, mostly porphyritic in feldspar. A middle sedimentary unit outcrops in the south central portion of their property, and is composed mainly of well- banded horn-felsed argillites, with occasional interbeds of sandstone. The argillites, which contain much of the mineralization are overlain by a conglomerate. An upper volcanic unit in the southeastern part of their property, is comprised predominantly of purple andesites, porphyritic in feldspar, and minor agglomerates. The Hazelton rocks are granodiorites, quartz diorites, and granites of Upper Jurassic and later age.

On the Utah property, four different stocks occur that are in general a feldspar porphyritic granodiorite.

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There are basically four types of dykes that have been mapped on the Utah property.

1. Fine-grained dense andesite and basalt dykes crosscut in a NE. and NW. direction, the upper volcanic unit.
2. A hornblende diorite dyke with parallel strike and concordant dip intrudes the argillites.
3. Biotite feldspar porphyry dykes were found to strike N-NW.
4. Two phases, a quartz feldspar porphyry and a rhyodacite porphyry, of a late barren dyke system parallel the major N-NW structure.

From personal examination , the Dilys Group appears to be underlain mainly by Hazelton rocks intruded by granodiorites and porphyritic monzonite. A portion of the eastern sector of the property is underlain by andesitic volcanics intruded by porphyritic monzonite, in contact with argillaceous sediments. Granodiorite intrusives are observed in the southwest sector of the property.

#### STRUCTURE

From the government aeromagnetic maps of the area, lineations striking in a N-NW, NW, NE and EW direction have been interpreted. On the Utah property, dominant faults and shears as well as dykes and stocks, have been found to strike in these directions.

### ALTERATION

A large alteration feature on the Utah property is a moderate to intense zone of sericitization and silification giving a mineral assemblage of quartz-sericite-pyrite. Propylitization is also widespread.

### MINERALIZATION

On the Utah property, the most common sulphide is pyrite where it occurs related to the quartz-sericite alteration and increases in content adjacent to shears, faults and strong fracture sets.

Pyrite, chalcopyrite and minor molybdenite occur in disseminations and fracture-fillings associated with quartz veining within altered argillite. Secondary copper minerals include malachite, azurite and tenorite. A third type of mineral occurrence is chalcopyrite occurring mainly in fracture-fillings associated with quartz in biotite porphyry.

The mineralization appears to be related to the dykes in that the better mineralization occurs in areas of greater concentrations of dykes.

On the Dilys Group minor copper sulphide mineralization has been found on the southern part of the Dilys claim where trenches have been dug. (zone 1 map sheet 6).

MAGNETOMETER: Instrumentation and Theory.

The magnetic survey was carried out using a portable vertical component, model G-110 fluxgate magnetometer manufactured by Sabre Electronic Instruments Ltd. of

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Burnaby B.C. This is a visual-null type instrument using a digital dial readout with a range of 100,000 gammas and a reading accuracy of 10 gammas. The G-110 has a temperature co-efficient of 2 gammas per degree centigrade.

This instrument measures the vertical component of the terrestrial magnetic field by electronically measuring the degree of magnetic saturation in a vertically oriented coil of fine wire. The usual procedure involves reading the instrument at a 'check station' and then conducting a traverse. The instrument is then returned to the check station and a reading taken. Any difference between the two check station readings which may be due to instrument drift or diurnal magnetic variation is then divided amongst the traverse stations as a correction.

Only two commonly occurring minerals are strongly magnetic; magnetite and pyrrhotite. Hence, magnetic surveys are used to detect the presence of these minerals of varying concentrations. Magnetic data are also useful as a reconnaissance tool for mapping geologic lithology and structure since different rock types have different background amounts of magnetite and/or pyrrhotite.

MAGNETOMETER SURVEY PROCEDURE ( map sheet 3 ).

A detailed ground magnetometer survey was conducted over the Dilys claim group during the months of April, May and June 1980, using a Sabre model G-110 portable vertical component fluxgate magnetometer, operated by J. Radovich, instrument operator and crew chief.

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The survey was conducted over the pre-established E-W grid lines at line spacing of 100 metres with 33 meter stations for a total of 35 line kilometers.

The data was corrected for diurnal variation and plotted on a map scale of 3cm = 100 metre and contoured using a variation of exponential contouring, (eg.) below 2000 gamma at 500g intervals, 2000 to 2500 gamma at 100g intervals and above 2500 gamma at 500g intervals.

#### MAGNETIC DATA INTERPRETATION ( map sheet 4)

The magnetic anomalies are interpreted, using fault control indicated by low magnetic lineations or depressions, the major exploration target being at the intersections of these lineations. The magnetic highs appear to be reflecting the intrusive rock type.

The survey outlined seven fault zones with two strike lineations, NE-SW and NW-SE. Four anomalies are indicated:

##### Anomaly A:

This anomaly is interesting in that it appears to be a combination of a NE trending fault intersecting a north trending fault and a NW trending fault or shear. The faults are labeled 1. and 2. The area of intersecting faults and/or shears appear to be on the contact with the intrusive and is a likely target to carry out detailed exploration for sulphide mineralization.

Anomaly B.

This anomaly is caused by the intersection of two, possibly three faults and/or shears, labeled 3. and 4. This anomaly is interpreted as being located on the intrusive contact and therefore is a likely target to continue detailed exploration.

Anomaly C.

The same situation exists as anomalies A. and B., but in addition anomaly C. is located on faults 5. and 6. and on E-W magnetic lineation which appears to be either a major fault or possibly a geological boundary. This anomaly is located in the centre of a small lake with surrounding swamp, therefore would be very difficult to investigate thoroughly except by geophysics or drilling in winter.

Anomaly D.

This anomaly is located 500 metres SE of anomaly B. but on intersecting faults 1. 2. and 3. also intersected by a minor north trending fault or shear.

VLF-EM Instrumentation and theory:

A VLF-EM unit receiver, model 27, manufactured by Sabre Electronic Instruments Ltd. of Burnaby B.C. was used for the VLF-EM survey. This instrument is designed to measure the electromagnetic component of the very low frequency field (VLF), transmitted at 18.6 KHz, from Seattle, Washington or at 17.8 KHz from Culter, Maine.

In all electromagnetic prospecting, a transmitter

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produces an alternating magnetic field (primary) by a strong alternating current usually through a coil of wire. If a conductive mass such as a sulphide body is within this magnetic field, a secondary alternating current is induced within it which in turn induces a secondary magnetic field that distorts the primary magnetic field. It is this distortion that the EM receiver measures. The VLF-EM uses a frequency range from 19 to 24 KHz, whereas most EM instruments use frequencies ranging from a few hundred to a few thousand KHz. Because of its relatively high frequency, the VLF-EM can pick up bodies of a much lower conductivity and therefore is more susceptible to clay beds, electrolyte-filling fault or shear zones and porous horizons, graphite, carbonaceous sediments, lithological contacts as well as sulphide bodies of too low a conductivity for other EM methods to pick up. Consequently, the VLF-EM has additional uses in mapping structure and in picking up sulphide bodies of too low a conductivity for conventional EM methods and too small for induced polarization. ( In places it can be used instead of I.P.). However, its susceptibility to lower conductive bodies results in a number of anomalies, many of them difficult to explain and, thus, VLF-EM preferably should not be interpreted without a good geological knowledge of the property and/or other geophysical and geochemical surveys.

VLF-EM DATA INTERPRETATION (map sheet 3 and 5)

The EM survey outlined ten conductive lineations. It has been the writers past experience that the

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causative source of most VLF-EM anomalies in this area and geological environment is water-saturated non-mineralized shear zones unless correlated with geology or soil geochemical anomalies.

Due to the numerous VLF-EM conductors located on this survey a diagnostic interpretation is not practical without further data as to geology or geochemical soil sampling. There is very little correlation between the magnetic data and VLF-EM data therefore no useful interpretation can be made from the EM data obtained on this survey.

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CONCLUSIONS AND RECOMMENDATIONS

The available geological and geophysical information suggest that the property is a favourable exploration target.

The property adjoining that of Utah Mines Ltd. property to the west where exploration has been carried out on a porphyry copper deposit.

The combined survey was successful in that the magnetic data has mapped some geological lithology, and although the VLF-EM data is not very useful at this time, the data should enhance the interpretation of future geological and geophysical data.

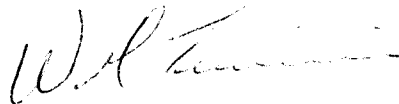
A programme consisting of I.P. surveys and geological mapping is recommended.

ESTIMATED COSTS OF PROGRAMME

1. I.P. survey (60km @ \$500/km)	\$30,000.00
2. Geological Mapping (60km @ \$100.00/km)	6,000.00
3. Engineering, supervision, reports etc	<u>4,000.00</u>
	40,000.00

Further work consisting of diamond drilling will be contingent upon results of the above programme of work.

Respectfully submitted



W.G. Timmins P. Geol.



T. Rolston

BIBLIOGRAPHY

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- Tough, T.R., Geological Report on the Bonny Claim, Tagetochlain Lake, Omineca Mining Division, British Columbia for Sutherland Resources Ltd. February, 1980.

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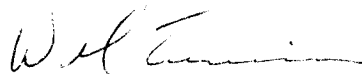
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CERTIFICATE

I, WILLIAM G. TIMMINS, maintaining offices at 201 909  
5 Avenue S.W. Calgary Alberta do certify that:

1. I am a geologist having been practising my profession for seventeen years.
2. I am a graduate of the Provincial Institute of Mining Haileybury, Ontario, and have attended Michigan Technological University, Houghton, Michigan.
3. I am a member in good standing of the Association of Professional Engineers of British Columbia, and of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.
4. I have no interest direct or indirect in the property or securities of Celebrity Mining Corp., nor do I expect to receive any such interest.
5. This report is based on government and private reports, interpretation of ground geophysical data obtained by surveys conducted by Columbia Geophysical Services in co operation with Mr. T. Rolston, supervisor and project geophysicist, and a personal visit to the property on July 4, 1980.

Dated at Calgary, Alberta the 28th day of July, 1980.



W.G. Timmins, P. Geol  
Consulting Geologist.

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# Columbia geophysical supplies Ltd.

7050 HALLIGAN STREET, BURNABY, B.C. V5E 1R6

Phone: (604) 526-1732  
or (604) 687-6671

## CERTIFICATE OF QUALIFICATIONS

I, Tom Rolston, of 7050 Halligan Street, Burnaby, B.C. have actively been engaged in my profession since 1953 and state as follows:

1. 11 years with the R.C.A.F. as Instrument and Electronic Technician with crew supervisory capacity in various electronic and instrumentation systems.
2. Two years with Kerr-Addison Mines Ltd. as Electronic Technician servicing, repairing and maintaining various type of geophysical instruments, with two seasons as Field Supervisor and Geophysical Instrument Operator in mining exploration, including airborne and ground geophysical surveys, geochemical surveys, geophysical and geochemical drafting and mapping.
3. 10 years with Geotronics Surveys Ltd. as Field Supervisor of geophysical and geochemical surveys and Instrument Operator of various geophysical instruments such as airborne and ground systems magnetometer, electromagnetic, gravity meter, self-potential meter, scintillometer and induced polarization.
4. The past 15 years contracting geophysical survey in close association with mining engineers for various mining companies.
5. President and Manager of Columbia Geophysical Services Ltd.

DATED at Burnaby, British Columbia this 28 day of July, 1980 .



Tom Rolston, Geophysical Operator and Project Geophysicist  
For: Columbia Geophysical Services Ltd.

**C. DRILLING** (Details in report submitted as per section 8 of regulations.)  
 (The itemized cost statement must be part of the report.)

**D. GEOLOGICAL, GEOPHYSICAL, GEOCHEMICAL**  
 (Details in report submitted as per section 5, 6, or 7 of regulations.)  
 (The itemized cost statement must be part of the report.)  
 (State type of work in space below.)

		COST
establish grid	35 L Km @ \$50.00	\$ 1,750.00
magnetometer survey,	35 L Km @ \$100.00	3,500.00
VLF E.M. survey	35 L Km @ \$100.00	3,500.00
TOTAL OF C AND D		8,750.00

Who paid for the above-described work? Name Celebrity Mining Corp.  
 Address 504 - 475 Howe Street,  
Vancouver, B.C.

*[Handwritten Signature]*

Portable Assessment Credits (PAC) Withdrawal Request		AMOUNT
Amount to be withdrawn from owner(s) account(s):		
Name of Owner		
(May be no more than 30 per cent of value of the approved work submitted as assessment work in C and (or) D.)	1. ....	
	2. ....	
	3. ....	
	4. ....	
TOTAL WITHDRAWAL		
TOTAL OF C AND (OR) D PLUS PAC WITHDRAWAL		

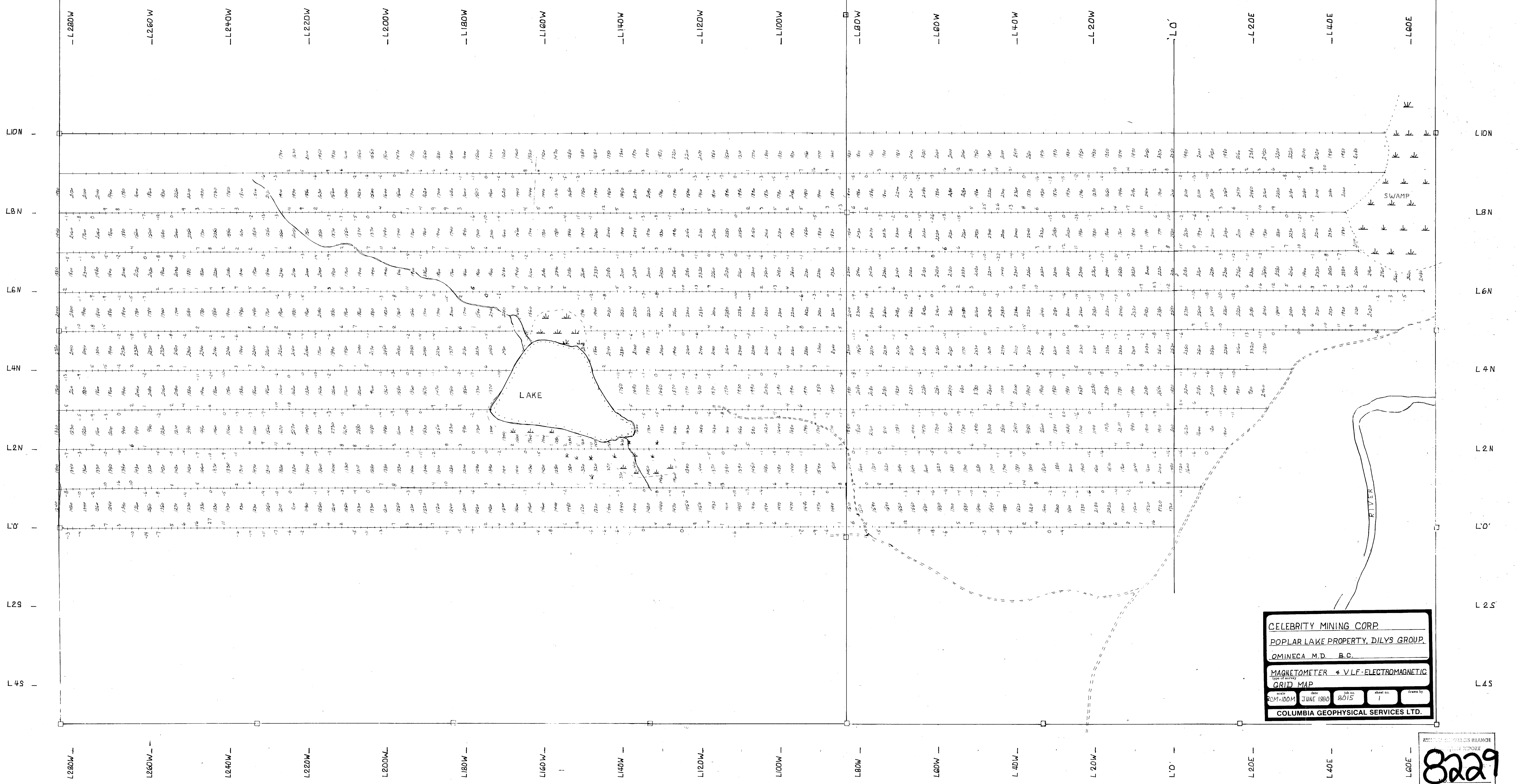
I wish to apply \$ 7,600.00 of this work to the claims listed below.  
 (State number of years to be applied to each claim and its month of record.)  
Apply 2 years to Dilys, record #1787 (6) and  
Tom 3, record #1790 (6)  
Report to follow within 30 days

Value of work to be credited to portable assessment credit (PAC) account(s).  
 (May only be credited from the approved value of C and (or) D not applied to claims.)

Name	AMOUNT
In owner(s) name: 1. <u>Celebrity Mining Corp.</u>	<u>\$ 1,750.00</u>
2. ....	
3. ....	

DILYS Claim




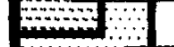
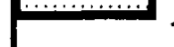


TOM Claim

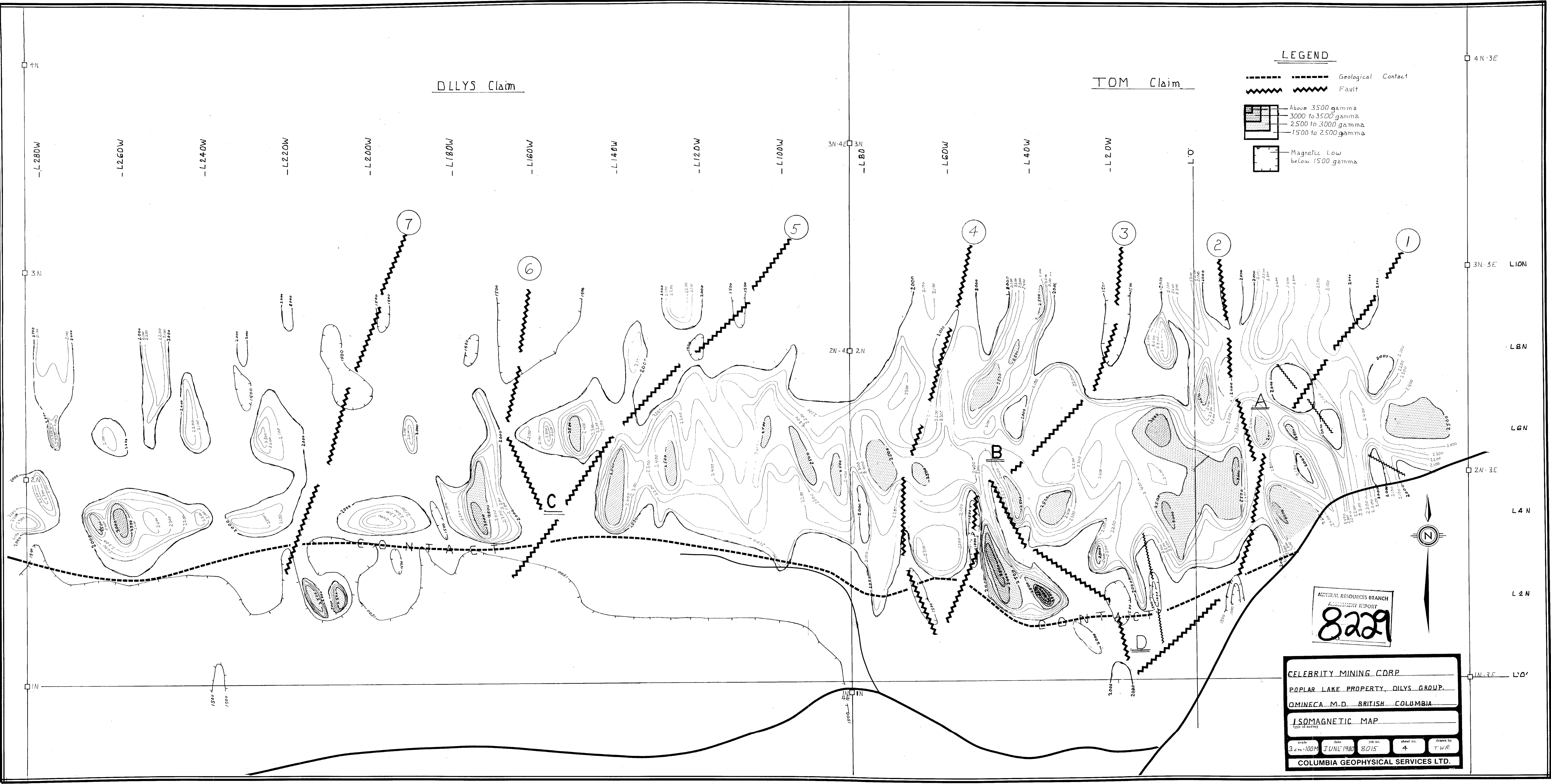


DILLYS Claim

TOM Claim

LEGEND

-  Geological Contact
-  Fault
-  Above 3500 gamma
-  3000 to 3500 gamma
-  2500 to 3000 gamma
-  1500 to 2500 gamma
-  Magnetic Low below 1500 gamma



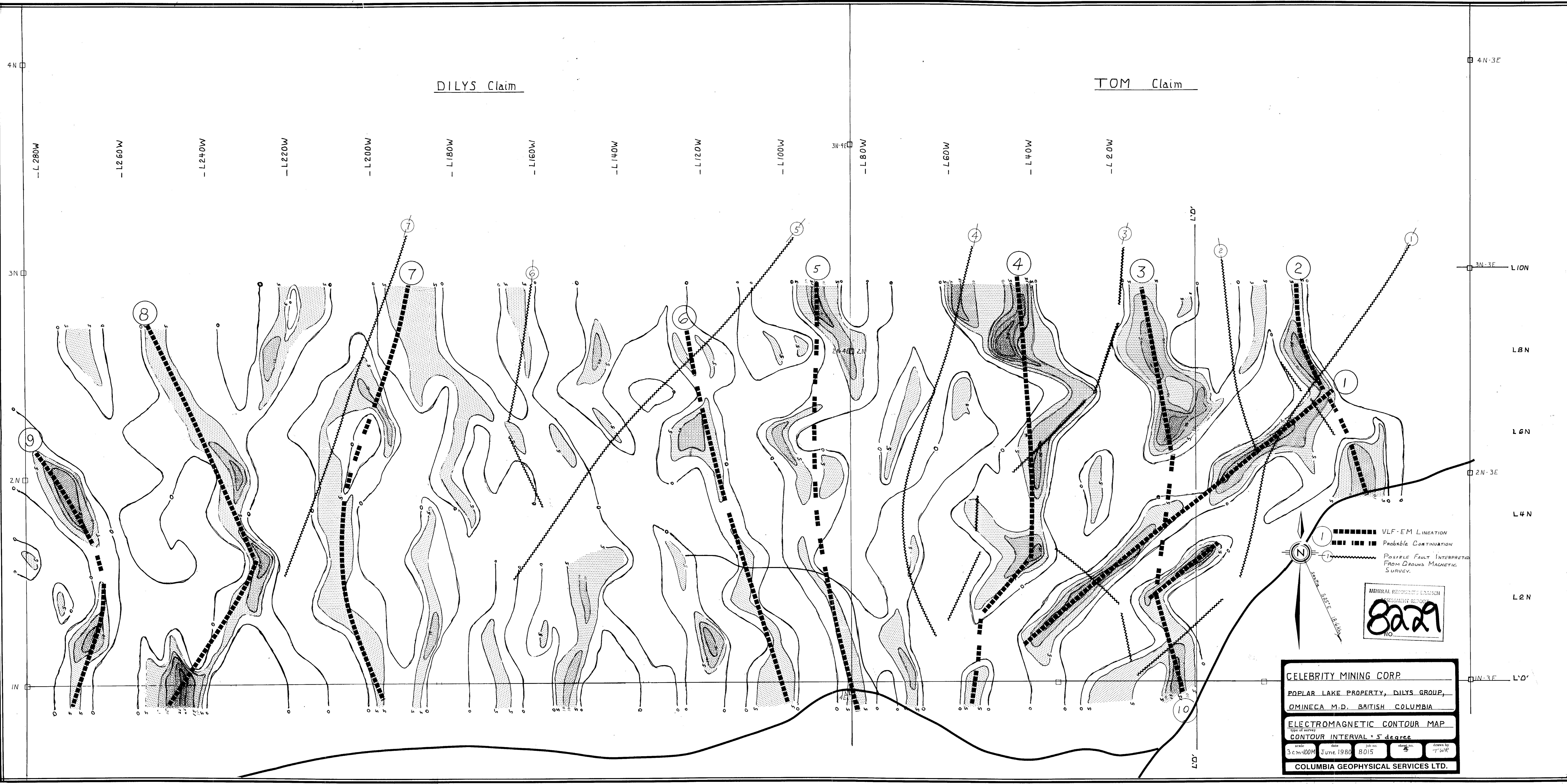
MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**8229**

CELEBRITY MINING CORP.  
POPLAR LAKE PROPERTY, DILLYS GROUP.  
OMINECA M.D. BRITISH COLUMBIA

ISOMAGNETIC MAP  
Type of survey

scale	date	job no.	sheet no.	drawn by
3 cm = 100M	JUNE 1980	8015	4	T.W.R.

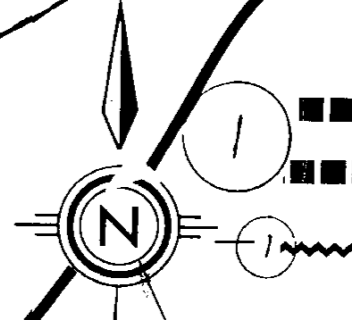
COLUMBIA GEOPHYSICAL SERVICES LTD.



DILYS Claim

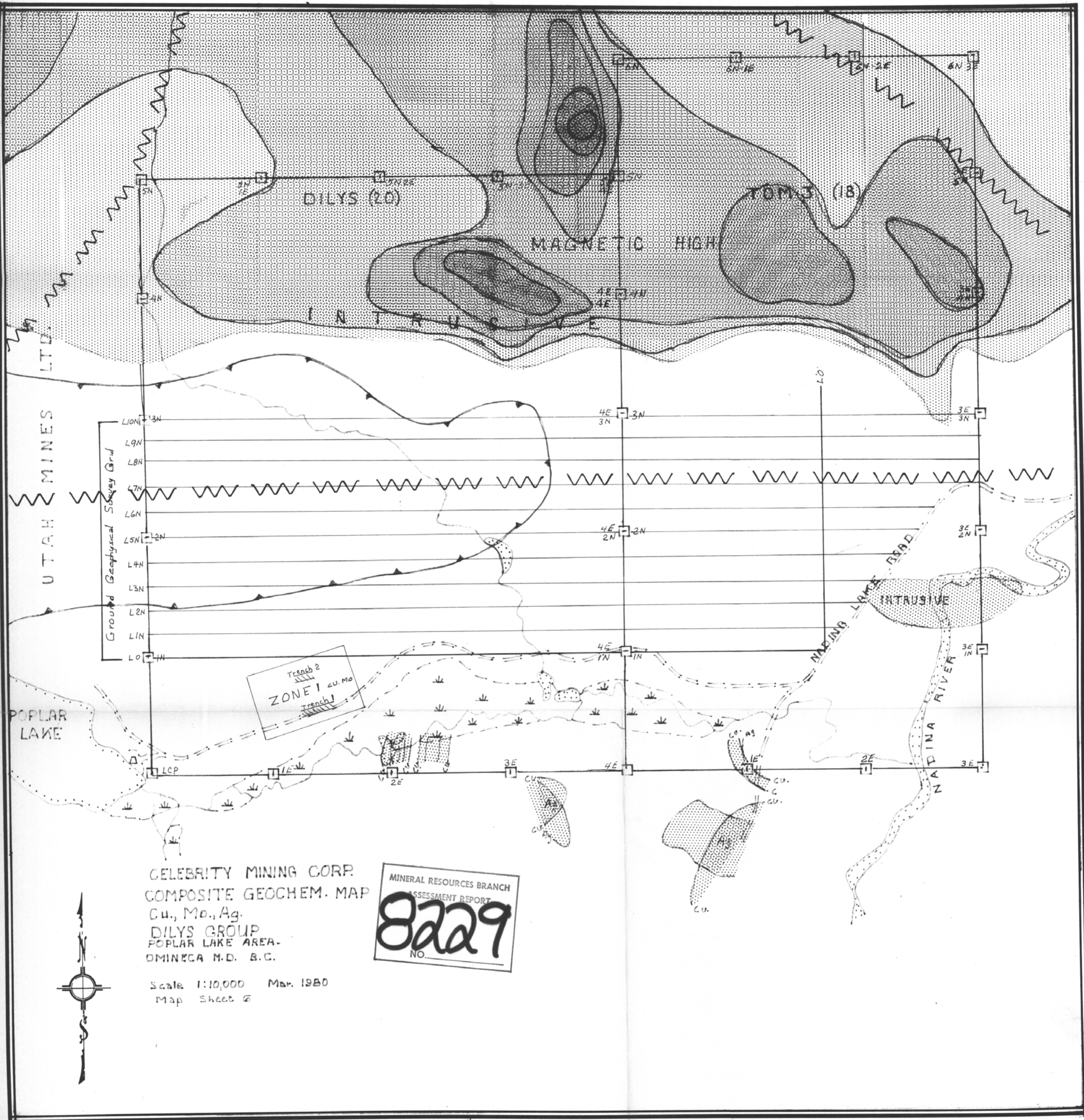
TOM Claim

[Thick dashed line] VLF-EM LINEATION  
 [Thin dashed line] Probable Continuation  
 [Wavy line] POSSIBLE FAULT INTERPRETED FROM GROUND MAGNETIC SURVEY.



MINERAL RESOURCES BRANCH  
 TITLIMENT REPORT  
**8029**  
 NO.

**CELEBRITY MINING CORP.**  
 POPLAR LAKE PROPERTY, DILYS GROUP,  
 OMINECA M.D. BRITISH COLUMBIA  
**ELECTROMAGNETIC CONTOUR MAP**  
 TYPE OF SURVEY  
 CONTOUR INTERVAL: 5 degree  
 Scale: 3 cm=100M Date: June 1980 Job no: 8015 Drawn by: TWR  
**COLUMBIA GEOPHYSICAL SERVICES LTD.**



CELEBRITY MINING CORP.  
 COMPOSITE GEOCHEM. MAP  
 Cu., Mo., Ag.  
 DILYS GROUP  
 POPLAR LAKE AREA-  
 OMINECA M.D. B.C.

MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
**8229**  
 NO.

Scale 1:10,000 Mar. 1980  
 Map Sheet 6