

4492

GEOPHYSICAL, GEOCHEMICAL & GEOLOGICAL REPORT

ON THE

MAYO CLAIMS

LOUGHBOROUGH INLET

VANCOUVER MINING DIVISION

Lat. 50° 32' N

Long. 125° 30' W

for

TRIAKO ENTERPRISES INTERNATIONAL LTD.

July, 1973.

James R. Glass, P. Eng.

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 4492 MAP

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INTRODUCTION

Between May 24th and June 1st, 1973 a program consisting of an E.M. geophysical survey, geochemical soil sampling and reconnaissance geological mapping was conducted over the Mayo Group of Claims.

The results of these investigations are described in this Report.

SUMMARY & CONCLUSIONS

1. Three strongly anomalous zones were indicated by the E.M. survey.
2. There are two areas containing anomalous amounts of copper in the soil samples. No anomalous amounts of zinc were found.
3. Geological reconnaissance mapping indicated that the entire Claim Group is underlain by granitic rocks which are part of the Coast batholith. No gold bearing quartz veins, similar to the old showings were found.

CLAIMS & LOCATION

The Mayo Group of eight contiguous claims are located on the south side of Loughborough Inlet on the mainland of British Columbia, about 35 miles north of Campbell River.

The claims are in the Vancouver Mining Division and are located at Lat. $50^{\circ} 32'$ N. Long. $125^{\circ} 30'$ W.

Access is by float plane from Campbell River.

The claims are recorded in the name of Tatsuya Takeda as follows:

<u>Claim</u>	<u>Record No.</u>
Mayo 1 to 4	17265 to 17268
Mayo 9 to 12	17273 to 17276

HISTORY

It is reported that a modest amount of hand sorted gold ore was shipped from the underground workings located on Mayo 11 Claim sometime early in the century. (LOUGHBOROUGH GOLD) 1935-39

No other work has been recorded.

Approximately two years ago Mr. William Sharp, P. Eng. gathered some soil samples from the claim group and did cold extraction for total heavy metals. Mr. Sharp reported that some of these soil samples contained anomalous amounts of heavy metals.

GEOLOGY

The rocks underlying the claim group consist of light grey quartz diorite to granodiorite that has been silicified and epidotized, to a more or less degree. This is part of the Coast Range batholith. The jointing and the fracturing trend in a general northeast direction, which is the trend of the mineralized shear zone.

A number of very narrow 1" - 2" quartz veins and quartz rich fracture filled zones were seen in outcrops, and some had minor pyrite associated with them.

Samples of the most promising looking veins returned negative results in gold and silver.

Copies of the assay results are included with this Report.

CONTROL LINES

Control lines for the surveys were established by cutting, chaining and picketing a base line and turning off cross lines spaced 400 feet apart with some 200 foot lines near the old mine, and in areas found to be anomalous in the E.M. survey.

A total of 8.1 miles of line was completed.

The maps showing the geophysical survey and the geochemical results, included with this Report, show the location of those lines.

GEOPHYSICAL SURVEY

A ground electromagnetic survey was carried out by Atled Exploration Management Ltd. on the claim group.

FIELD PROCEDURE

Readings were obtained with the Ronka E.M. 16 unit in the following manner:

1. The station direction is determined by obtaining the minimum signal strength (audio null) in the horizontal plane, and
2. The instrument is then swung upright so that the reference coil (lower end of the handle) is aligned with the primary magnetic field.
3. The instrument is then tilted back and forth and the quadrature dial turned to obtain an audio null.
4. The in-phase tilt angle value is read from an inclinometer on the side of the instrument and the quadrature from the quadrature dial.

Readings were taken at 50 foot intervals on all survey lines.

Field notes show transit direction, direction in which the operator faced while taking a reading, in-phase and quadrature values, line and station number, and notes on topography and presence of streams and swamps.

RESULTS

1. Three strongly anomalous zones (greater than 30% filtered in phase response) were outlined on the Mayo claims. They are designated¹ by the numerals 1, 11 and 111 on Figure 3 at the rear of this Report.
2. All three zones strike true east west.
3. Zones 1 and 11 are complex in shape, suggesting a complex nature to their conductive sources.
4. Zone 1 is on strike to the old workings at the east of the base line. As such it is given top priority for future exploration work.
5. Some iron stain was observed on the outcropping at 10N on line 8W, and soil geochemistry results are reported as encouraging in the vicinity of the strongly anomalous core, of Zone 11.
6. Zone 111 lies in the south central grid area and is strongly anomalous over some 100 to 700 feet.
7. Further exploration work to determine the source of these anomalies is recommended, in particular an EM "shoot back" survey should be conducted over them to obtain additional information on the position of the conductive sources.

GEOCHEMICAL SURVEY

A geochemical soil survey over parts of the claim group was done, to establish any correlation between the known mineralization and heavy metal in the soil.

A total of 131 soil samples were taken, using the picket lines for control.

The soil was gathered from the B horizon, using a standard auger, and was sent to Bondar-Clegg & Company Ltd. in Vancouver where it was measured for total content of copper and zinc using the atomic absorption method.

The results of this survey is plotted on map of scale 1" = 200' included in this Report.

DISCUSSION OF RESULTS

Background for zinc is approximately 15 ppm and background for copper is 20 ppm.

There are no anomalous amounts of zinc in the soil of the survey area.

Two areas of low anomalous copper content are indicated. One area is located below rock cliffs and outcrop on Mayo 10 claim about 1,000 feet from the abandoned mine.

Another area of low anomalous copper content is located on parts of Mayo 2, 3 and 4 claims.

Neither of these anomalous areas is construed to be indicative of significant underlying bedrock mineralization, although one area is along the ridge containing the old workings and the other area is in the general vicinity of Mr. Sharp's original soil work, where he reported anomalous heavy metal content.

These results however are not conclusive in that no concentrations of copper or zinc were found around the old workings.

PERSONNEL AND STATEMENT OF COSTS

PERSONNEL:

1. Geological work - William Sharp, P. Eng. Vancouver, B.C.
May 28th to May 30th, 1973.
James R. Glass, P. Eng. Vancouver, B.C.
May 29th and 30th, 1973.

 2. Line Cutting - Steve Fagan (Field Assistant), Vancouver, B.C.
May 23rd to May 26th, 1973.
Joe Regan (Field Assistant), Campbell River, B.C.
May 25th to May 27th, 1973.
James R. Glass, May 25th to May 28th, 1973.
Wm. Sharp, May 24th to May 27th, 1973.

 3. Geophysical Survey - A. Scott, P. Eng. Vancouver, B. C.
May 29th to June 1st, 1973.
Steve Fagan, May 29th to June 1st, 1973.
- Geochemical Survey - Steve Fagan, May 27th and 28th, 1973.
Joe Regan, May 28th to May 30th, 1973.

COSTS

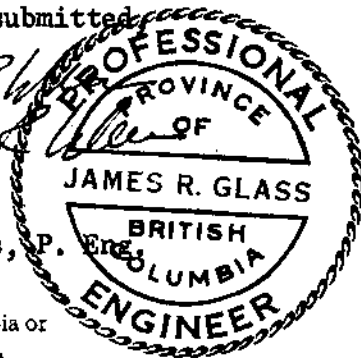
Geological Reconnaissance - Wm. Sharp	\$ 600.00
- James R. Glass	160.00
E. M. Survey	1,000.00
Line cutting - 8 miles	720.00
Geochemical Survey	160.00
- Assaying	281.60
Flying	142.00
Camp Costs	<u>204.00</u>
TOTAL -	<u><u>\$ 3,267.00</u></u>

Declared before me at the *City*
of *Vancouver*, in the
Province of British Columbia, this *31st*
day of July, 1973, A.D.

Respectfully submitted

James R. Glass
James R. Glass

James R. Glass, P. Eng.



J. Paul SUB-MINING RECORDER
A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia.

Vancouver, B. C.

July, 1973.

To: Triaco Mines Ltd.

REPORT No. A23 - 2

PAGE No. 1

BONDAR-CLEGG & COMPANY LTD.

DATE: June 5, 1957

433 - 355 Burrard Street
Vancouver 1, B. C.

CERTIFICATE OF ASSAY

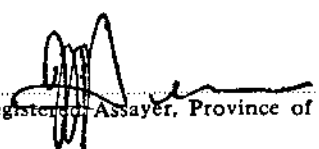
Samples submitted: May 31,
Results completed: June 5, 1957

Attention: Mr. J. Glass

Project: Mayo Group

I hereby certify that the following are the results of assays made by us upon the herein described ore sample

MARKED	GOLD		SILVER								TOTAL PER TON (2000 L)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
40238	trace		trace	Grab of 1'-2' of quartz vein from Hornblende diorite							
40239	0.08		0.09	Dump Sample from lower workings of old mine							
40240	0.05		0.22	Dump sample from upper workings of old mine							
40241	0.16		0.38	10" of diorite and two quartz veins							
40242	trace		0.02	2" quartz vein in diorite							
40243	trace		trace	1" quartz vein - 2 feet from last sample							


 Registered Assayer, Province of British Columbia

GEOPHYSICIST'S QUALIFICATIONS

NAME: Alan Scott

EDUCATION: B. Sc., Geophysics (UBC) '70

PROFESSIONAL
ASSOCIATIONS: Society Exploration Geophysicists
B. C. Geophysical Society

EXPERIENCE: One year surveying, South Okanagan
Lands Project

Two years geophysical instrument
operator, Geo-X Surveys

Three years geophysicist, Cochrane
Consultants Ltd.

Self employed since January, 1973.

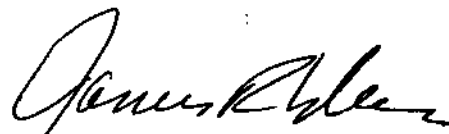
CERTIFICATE

I, James R. Glass, 433 - 355 Burrard Street, Vancouver 1, British Columbia, do hereby certify:

I am a Consulting Geologist with offices at 433 - 355 Burrard Street, Vancouver 1, British Columbia.

I further certify that:

1. I am a graduate of McGill University (1961) and hold a B. Sc. degree in Geology.
2. I have been practising in my profession for the past twelve years.
3. I am a Fellow of the Geological Association of Canada, a member of the American Institute of Mining Engineers and a member of the Association of Professional Engineers for the Province of British Columbia.



James R. Glass, P. Eng.

July, 1973.

TRIAKO ENTERPRISES INTERNATIONAL LTD.
433 Marine Building,
355 Burrard Street,
Vancouver 1, British Columbia.

September 4th, 1973.

Mr. R. Rutherford,
Deputy Chief Gold Commissioner,
Department of Mines and Petroleum Resources,
VICTORIA, British Columbia.

Dear Sir:

Re: MAYO Claims
Your File No: 166 Vancouver

In answer to your letter of August 29, 1973 I wish to submit:

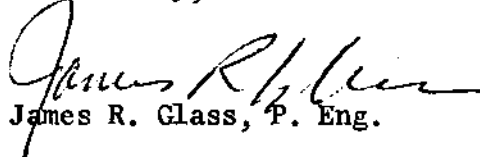
1. The Index Map, in duplicate, showing the outline of the claims in relation to Loughborough Inlet and Grey Creek which is enclosed herewith.
2. Bondar-Clegg reports that the samples were analyzed as follows:
 - (a) Dried in infra red dryer.
 - (b) Seived to -80 mesh.
 - (c) Weighed on 0.5 gms.
 - (d) Digested in LaForte Aqua Regia for 3 hrs.
 - (e) Bulked to 20% Acid concentration & homogenized.
 - (f) Allowed 1 hour setting time.
 - (g) Analyzed by atomic absorption in constant compassion with synthetic and matrix standards.
 - (h) Permanently recorded.

9691

Encls.

SEARCHED _____ INDEXED _____
SERIALIZED _____ FILED _____
SEP 6 1973
VICTORIA
DEPT. OF MINES & PETROLEUM RESOURCES

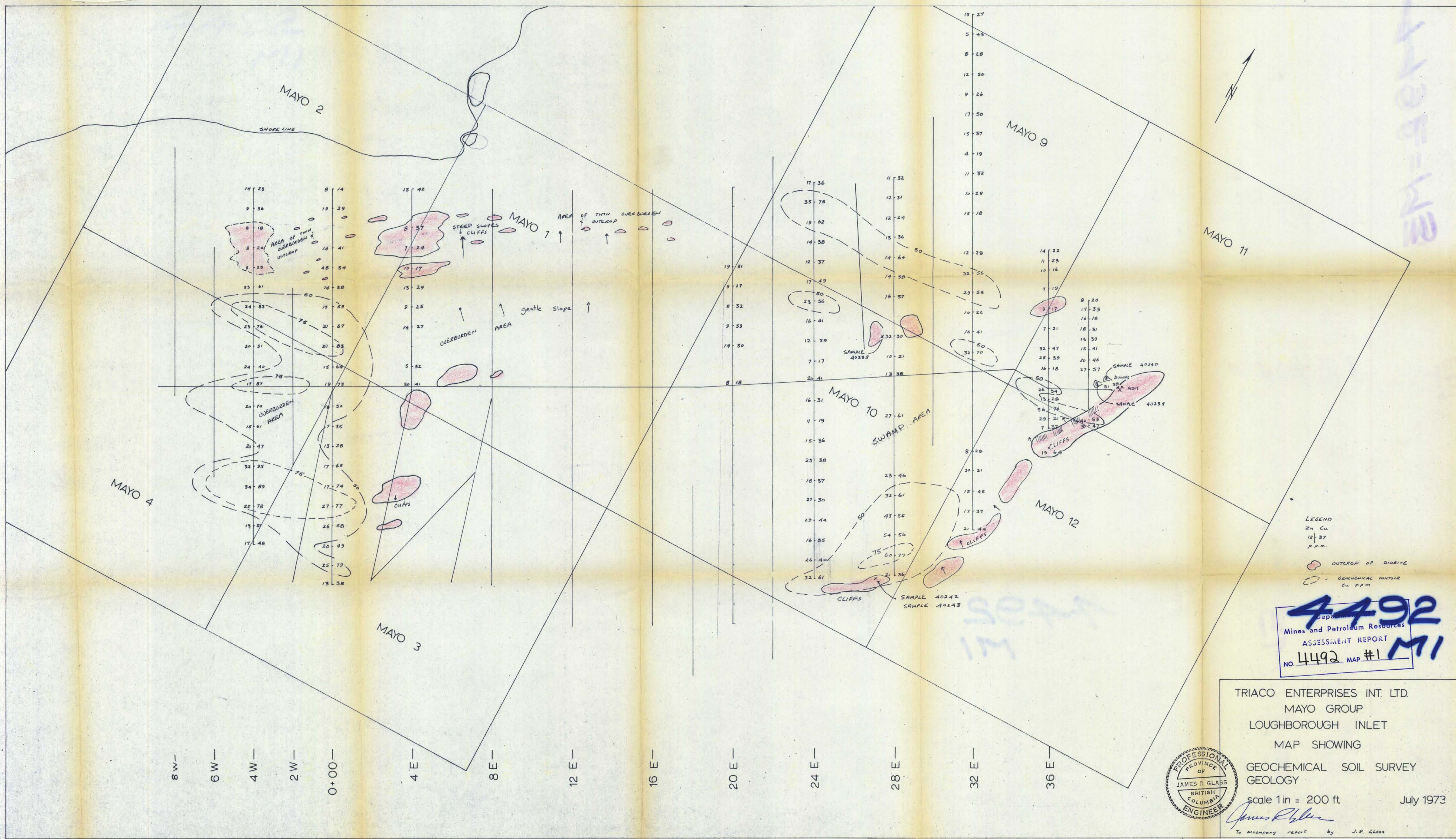
Yours truly,


James R. Glass, P. Eng.

SEP 6 '73 AM



DEPT. OF MINES
AND PETROLEUM RESOURCES



130-9074

LEGEND
 Zn Cu
 12-37
 p.p.m.
 ○ OUTCROP OF DIORITE
 ○ GEOCHEMICAL CONTOUR
 Cu p.p.m.

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 Department of
 Mines and Petroleum Resources
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TRIACO ENTERPRISES INT. LTD.
 MAYO GROUP
 LOUGHBOROUGH INLET
 MAP SHOWING

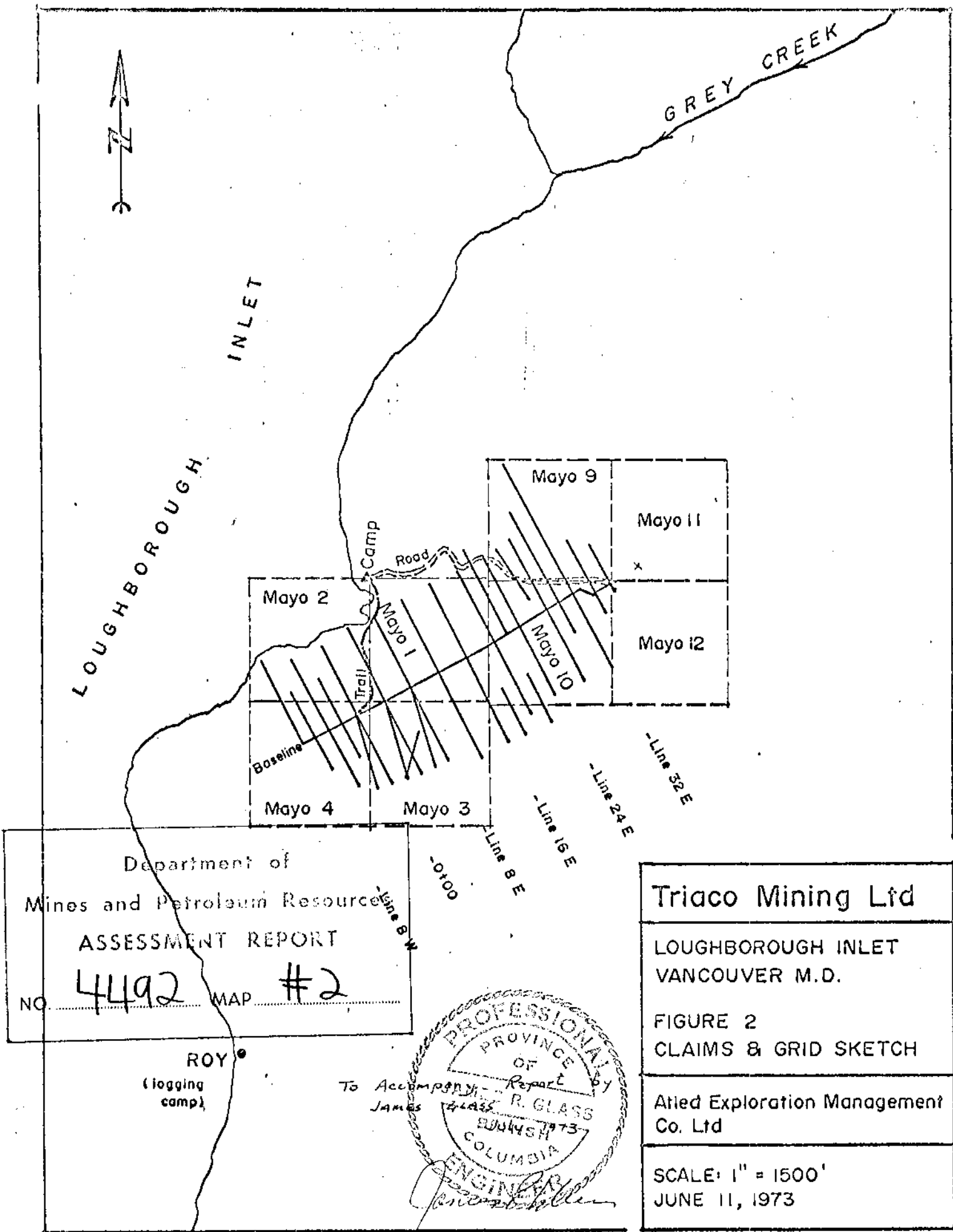
GEOCHEMICAL SOIL SURVEY
 GEOLOGY

scale 1 in = 200 ft

July 1973



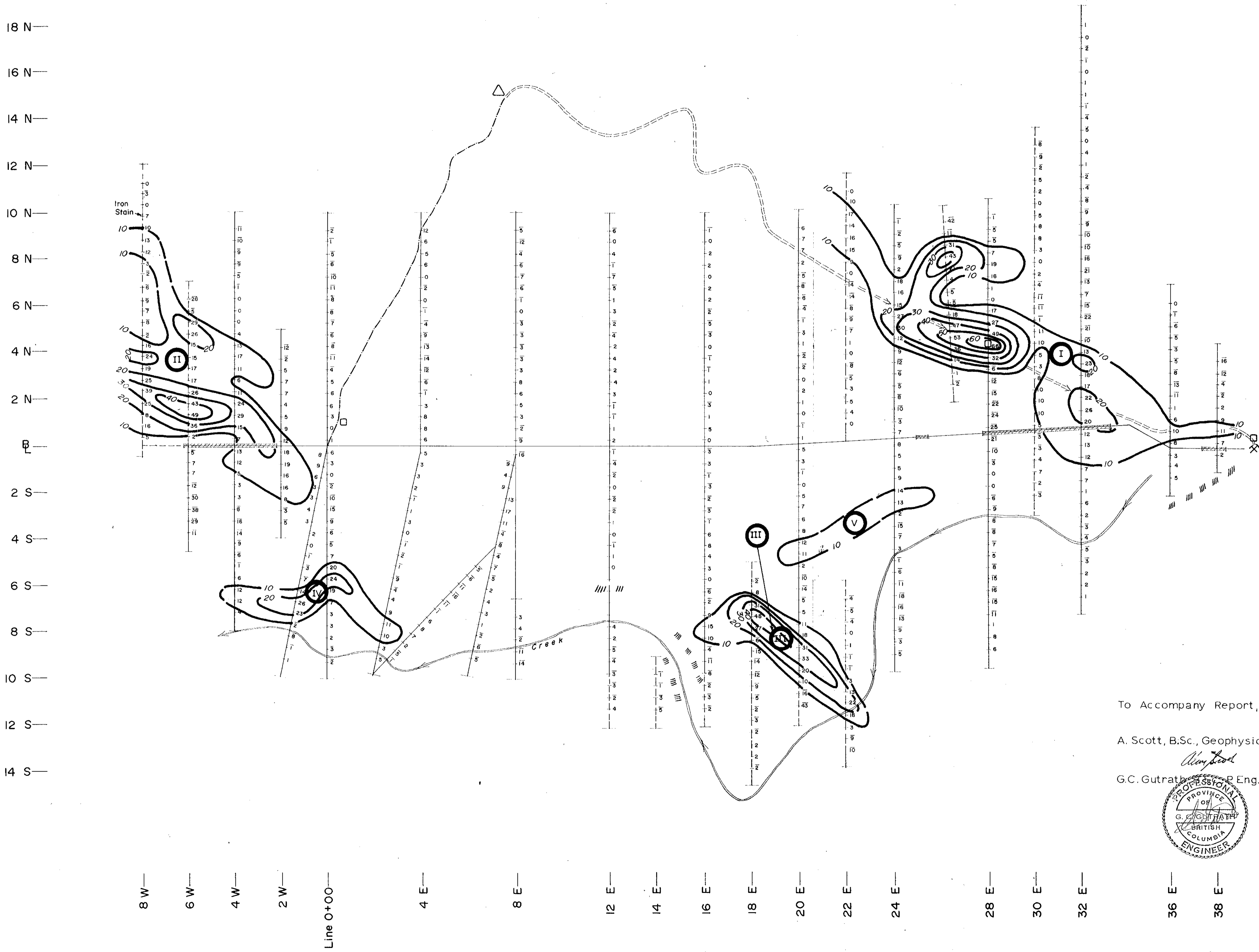
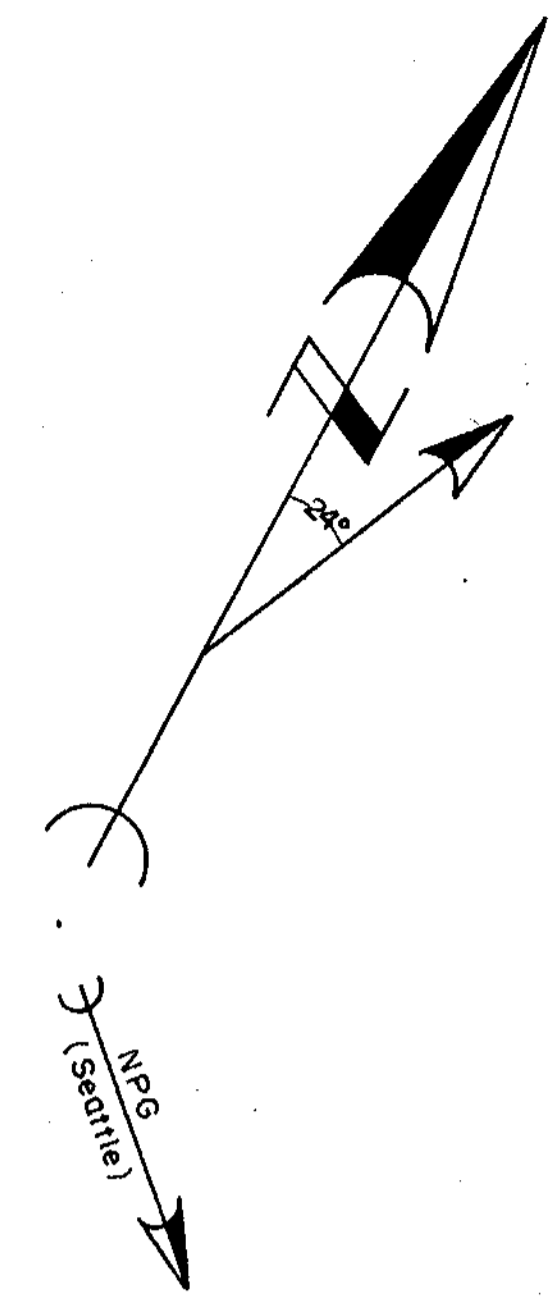
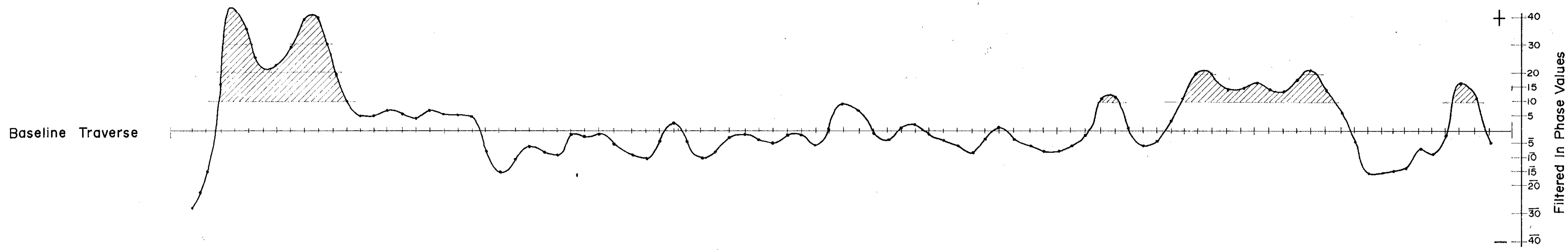
James R. Glass
 To accompany report by J.R. GLASS



Department of
 Mines and Petroleum Resources
ASSESSMENT REPORT
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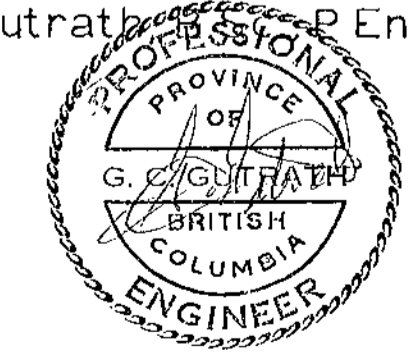
Triaco Mining Ltd
 LOUGHBOROUGH INLET
 VANCOUVER M.D.
 FIGURE 2
 CLAIMS & GRID SKETCH
 Allied Exploration Management
 Co. Ltd
 SCALE: 1" = 1500'
 JUNE 11, 1973

To Accompany Report
 James R. Glass
 50445H 1973
 COLUMBIA
 ENGINEER



- Legend**
- Conductive zone referred to in report.
 - Conductive zone detected on baseline traverse.
 - Cut lines
 - Flagged lines
 - Trail
 - Road
 - Cliffs
 - Camp
 - Adit
 - Claim Post

To Accompany Report, by:
 A. Scott, B.Sc., Geophysicist,
 G.C. Guttrath, B.Sc., P. Eng., Geologist.



Triaco Enterprises Int. Ltd.

LOUGHBOROUGH INLET
 VANCOUVER MINING DIVISION
 Department of Mines and Petroleum Resources
 ASSESSMENT REPORT
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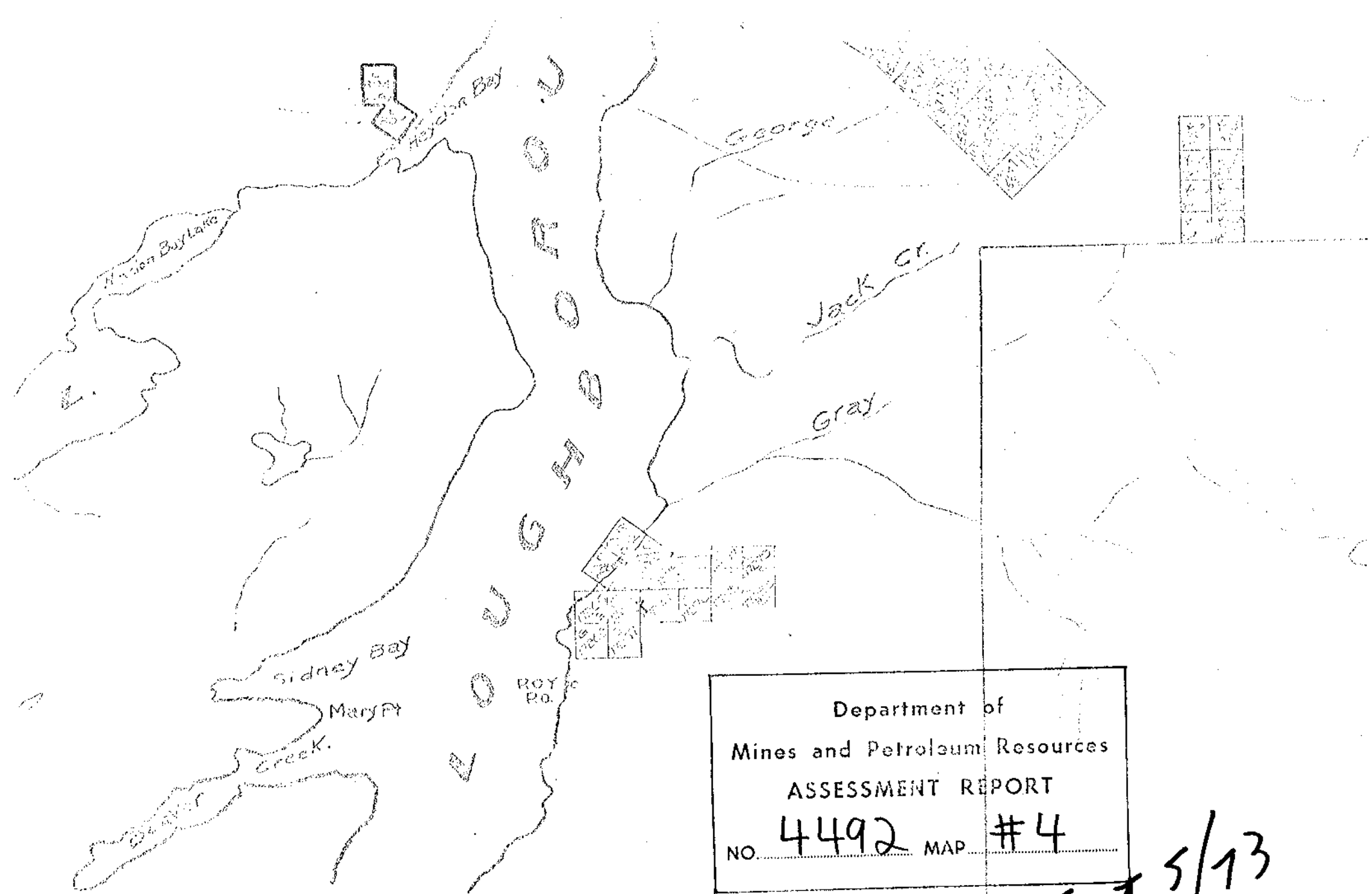
FIGURE 3
 EM-16 FILTERED IN PHASE CONTOUR PLAN

Atled Exploration Management Company Limited

SCALE: 1 INCH = 200 FEET

JUNE 11, 1973

4492-M3



Department of
 Mines and Petroleum Resources
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Sept 5/13