

63.4237



GRÄNGES EXPLORA
CANADIAN DIVISION



41009NW0018 63.4237 OSWAY

010

PROPOSAL AND REPORT ON

THE

GOGAMA PROJECT

Situated in

the

HUFFMAN, OSWAY, MALLARD

Township Areas,

Ontario

by

GRANGES EXPLORATION AKTIEBOLAG

1110 - 625 Howe St.,

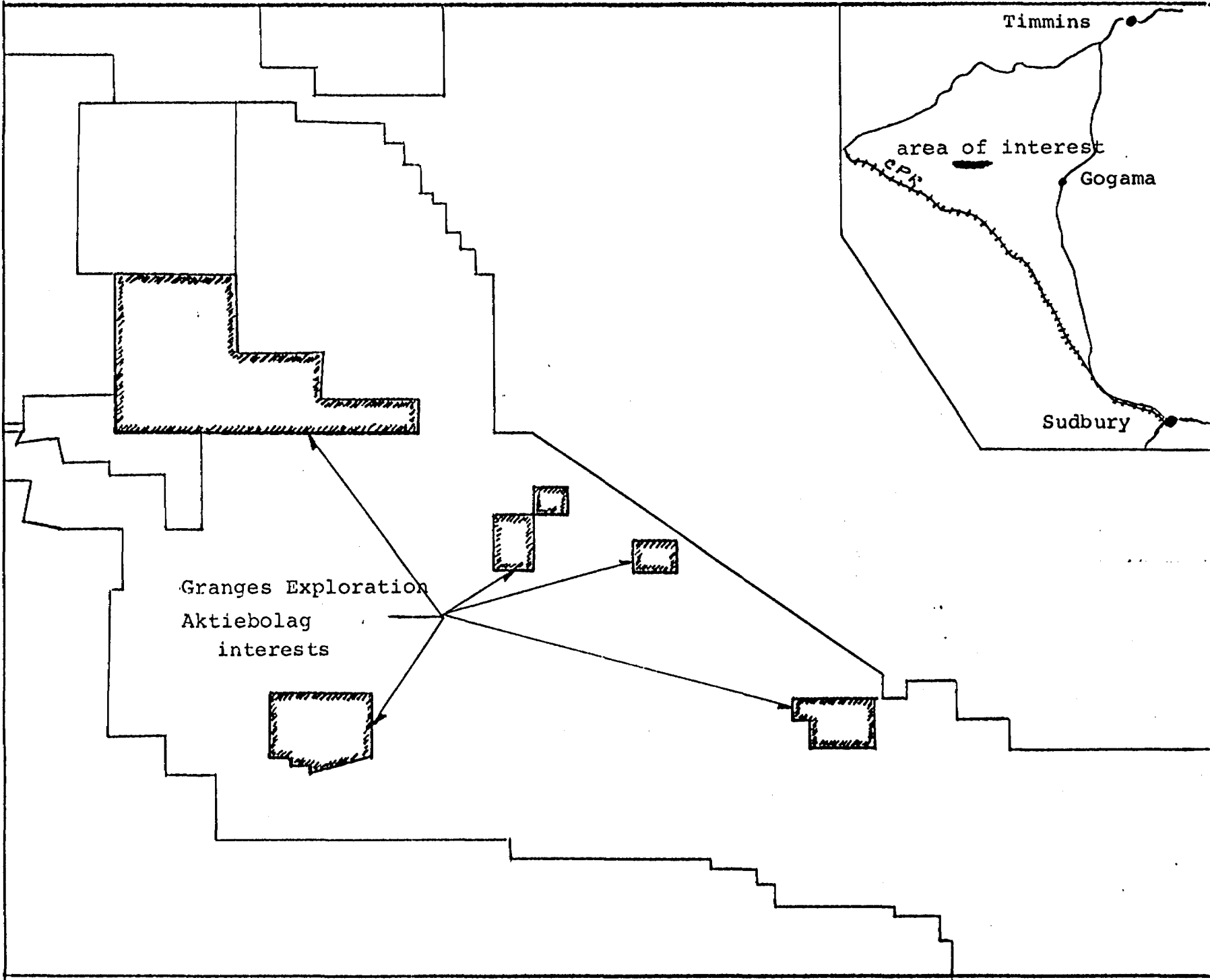
Vancouver, B. C.

V6C 2T6

October 1, 1982

G. W. Zbitnoff P.Eng.

{Man. & B. C.}



INTRODUCTION

A group of 162 claims situated in the Porcupine Mining Division within the Townships of Mallard, Huffman and Osway were staked as a result of airborne geophysical surveys. These claims were then optioned to Granges Exploration Aktiebolag of 1110 - 625 Howe St., Vancouver under three separate agreements. Granges has subsequently carried a linecutting and ground geophysical program in an attempt to locate potential base metal and/or precious metal deposits.

LOCATION AND ACCESS

The 162 claims referred to in this report are situated in three separate townships, Mallard, Huffman and Osway. These claims are situated approximately 75 miles southwest of Timmins and 25 miles west of Gogama. The claims are easily accessible by fixed wing float or ski-equipped planes or by road. The Jerome Mine site which is in the midst of the claim group is also accessible by a bush road which connects eventually with highways 129 and 144.

CLAIM PROPERTY AND OWNERSHIP

The following claims are in the name of Maverick Mountain Resources situated in Osway Township:

584170 to 584175 inclusive (6)
584177 (1)
584180 to 584185 inclusive (6)
530568, 530569, 530571 and 530572 (11) (17)

The following claims are owned by Maverick Mountain Resources and held in the name of R. R. Blusson situated in Mallard Township.

576335 to 576346 inclusive, 564856 to 564862 inclusive.
574164, 574165, 576105 to 576141 inclusive, 564891,
576155 to 576190 inclusive, 576205 to 576222 inclusive

(31)

(13)

The following claims are situated within the Huffman township and are owned by R. R. Blusson.

576372 to 576384 inclusive.

(13)

The following claims are situated in the Huffman Township and are owned by Canadian Gold and Metals.

583725 to 583729 inclusive, 583475, 586417 to 586429 inclusive.

(5)

(1)

(18)

All the above claims are held under option agreements by Granges Exploration Aktiebolag.

LINECUTTING

On optioning the claims from each of the venders, Granges laid out 8 seperate grids (GOG 1 to 8 inc.) over individual airborne anomalies. Linecutting was contracted to John Hussey of Timmins, Ontario.

A total of 47.16 miles was cut during the period of May 20th to June 20th 1982.

The grids were cut using two parrallel base lines as control lines with picket lines being cut perpendicular to the control lines. The spacing on the picket lines was varied depending on the strength of the airborne responses.

The weaker the response the closer are the line spacings. The following list is a break down of the mileage and line spacing per individual grid.

GOG 1	-	32.15 miles	400' line spacing
GOG 2	-	2.06 miles	200' line spacing
GOG 3	-	2.14 miles	200' line spacing
GOG 4	-	2.54 miles	200' line spacing
GOG 5	-	1.21 miles	200' line spacing

GOG 6	-	3.01 miles	400' line spacing
GOG 7	-	1.57 miles	200' line spacing
GOG 8	-	2.48 miles	400' line spacing

GROUND GEOPHYSICAL SURVEY AND INTERPRETATION

The ground geophysics was carried out over the grids under contract by F. Hussey of Agincourt, Ontario. A total of 38.5 miles of horizontal loop survey was carried out during the month of June, 1982.

The instrumentation used during the survey was a Maxmin II manufactured by Parametrics Ltd of Toronto. The unit was operated at a frequency of 1777 Hz and the coil separation was varied between 300' and 400'. The coil separation was increased, in areas where overburden appeared to be excessive, to obtain a better response. Readings were taken at 100' intervals or stations along picket lines and decreased to 50' intervals over anomalous areas.

Two components of the secondary field are measured. These are expressed directly in percentage change from normal field. The typical curve obtained over a steeply dipping conductor shows a rise (positive) when approaching the conductor, followed by a low (negative) when the conductor is between the coils. A second rise occurs when both coils are beyond the conductor. Both the in-phase and out-of-phase components show the same general curve. The ratio of the components indicates the relative conductivity of the conductor.

A ratio of the in-phase to the out-of-phase readings of 5, or 6 to 1 indicates a high conductivity, usually a massive sulphide body. Ratios of 4-1, 3-1 and 2-1 would generally be considered good conductors caused by sulphides or graphitic zones. Disseminated sulphides and slightly graphitic zones produce effects which lie between these two extremes. They may be quite difficult to interpret and in some cases unrecognizable from topographical effects, in which case

experience in a particular area is invaluable.

A thick mantle of fairly conductive overburden, which is common on lake bottoms, may cause an anomalous condition. The effect is positive on the in-phase readings and affects the out-of-phase component to a lesser extent.

The interpretation of the results was carried out by M. Prew, geophysicist for Granges Exploration Aktiebolag. Numerous anomalies were located as a result of the surveys.

DISCUSSION OF RESULTS

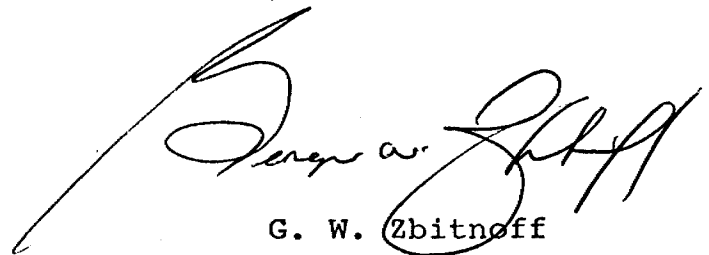
The ground survey over the cut grids accurately pinpointed the anomalies as shown by appended plates of grids GOG 1 to 8 inclusive. The results vary for each grid, some of the anomalies show length, others are short in nature. The strength of each anomaly is variable. A brief description as to the number of anomalies located on each of the grids is as follows:

Grid GOG 1	-	12 anomalys
Grid GOG 2	-	1 anomaly
Grid GOG 3	-	1 anomaly
Grid GOG 4	-	1 anomaly
Grid GOG 5	-	1 anomaly
Grid GOG 6	-	1 anomaly
Grid GOG 7	-	1 anomaly
Grid GOG 8	-	1 anomaly

RECOMMENDATIONS

It is recommended that each individual anomaly be tested by diamond drilling in order to ascertain whether the conductive mineralization which comprises the anomaly contains any base metals and/or precious metals.

It is also recommended that additional holes be drilled on grid GOG 1 E₁ in the area where 10% chalcopyrite was previously reported by others.

A handwritten signature in cursive script, appearing to read 'George W. Zbitnoff', written in dark ink.

G. W. Zbitnoff

STATEMENT OF QUALIFICATIONS

Name: Zbitnoff, George Wm.

Profession: Geologist

Professional Associations: Member of the Association of Professional Engineers of the Province of Manitoba since 1969.

Member of the Association of Professional Engineers of the Province of British Columbia since 1973.

Experience: Pre graduation experience in geology with the Department of Mineral Resources of Saskatchewan.

Two and one half years, field geologist with Hudson Bay Exploration and Development, Central Canada.

Six years, field and resident geologist with Noranda Exploration Ltd., Central Canada.

Eleven years geologist and Assistant Manager with Granges Exploration Aktiebolag, Canadian Division.

Active experience in all geologic provinces of Canada and parts of the United States and Mexico.



GRÄNGES EXPLOR
CANADIAN DIVISION



41009NW0018 63.4237 OSWAY

020

DRILLING AND GEOLOGICAL REPORT

On The

Gogama Project

Situated In

The

Huffman, Osway, Mallard

Township Areas,

Ontario

By

Granges Exploration Aktiebolag

1110-625 Howe Street

Vancouver, B. C.

V6C 2T6

January 3, 1984

G. W. Zbitnoff



41009NW0018 63.4237 OSMAY

020C

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ENCLOSURES

1 Plan showing claim outlines and EM surveys and drill hole locations.

Scale 1"=1/2 Mile

1 Plan showing geophysical results of Grid GOG 1 E1/2 and diamond drill hole location.

Scale 1"=400'

1 Plan showing geophysical results of Grid GOG 2 & GOG 3 and diamond drill locations.

Scale 1"=400'

1 Plan showing geophysical results of Grid GOG 4 and diamond drill location.

Scale 1"=400'

1 Plan showing geophysical results of Grid GOG 5 and diamond drill location.

Scale 1"=400'

1 Plan showing geophysical results of Grids GOG 7 and diamond drill location.

Scale 1"=400'

1 Plan showing geophysical results of Grid GOG 8 and diamond drill locations.

Scale 1"=400'

Copies of log and assay sheets from holes GOG 1 through 8.

INTRODUCTION

A group of 162 claims situated in the Porcupine mining division within the townships of Mallard, Huffman and Osway were staked as a result of airborne geophysical surveys. Follow up ground geophysics with the Maxmin II horizontal loop instrument localized the EM anomalies on the previously cut grids.

During a five week interval between October 15th and November 21st, 1982 eight holes (GOG 1 - GOG 8) were drilled on separate anomalies for a total footage of ~~1856'~~^{1586'} (483 meters).

This report gives the results and interpretation of these holes.

LOCATIONS AND ACCESS

The 162 claims referred to in this report are situated in three separate townships, Mallard, Huffman and Osway. These claims are situated approximately 75 miles southwest of Timmins and 25 miles west of Gogama. The claims are easily accessible by fixed wing float or ski-equipped planes or by road. The Jerome Mine site which is in the midst of the claim group and is accessible by a bush road which connects eventually with highways 129 and 144.

CLAIM PROPERTY AND OWNERSHIP

The following claims are in the name of Maverick Mountain Resources situated in Osway Township:

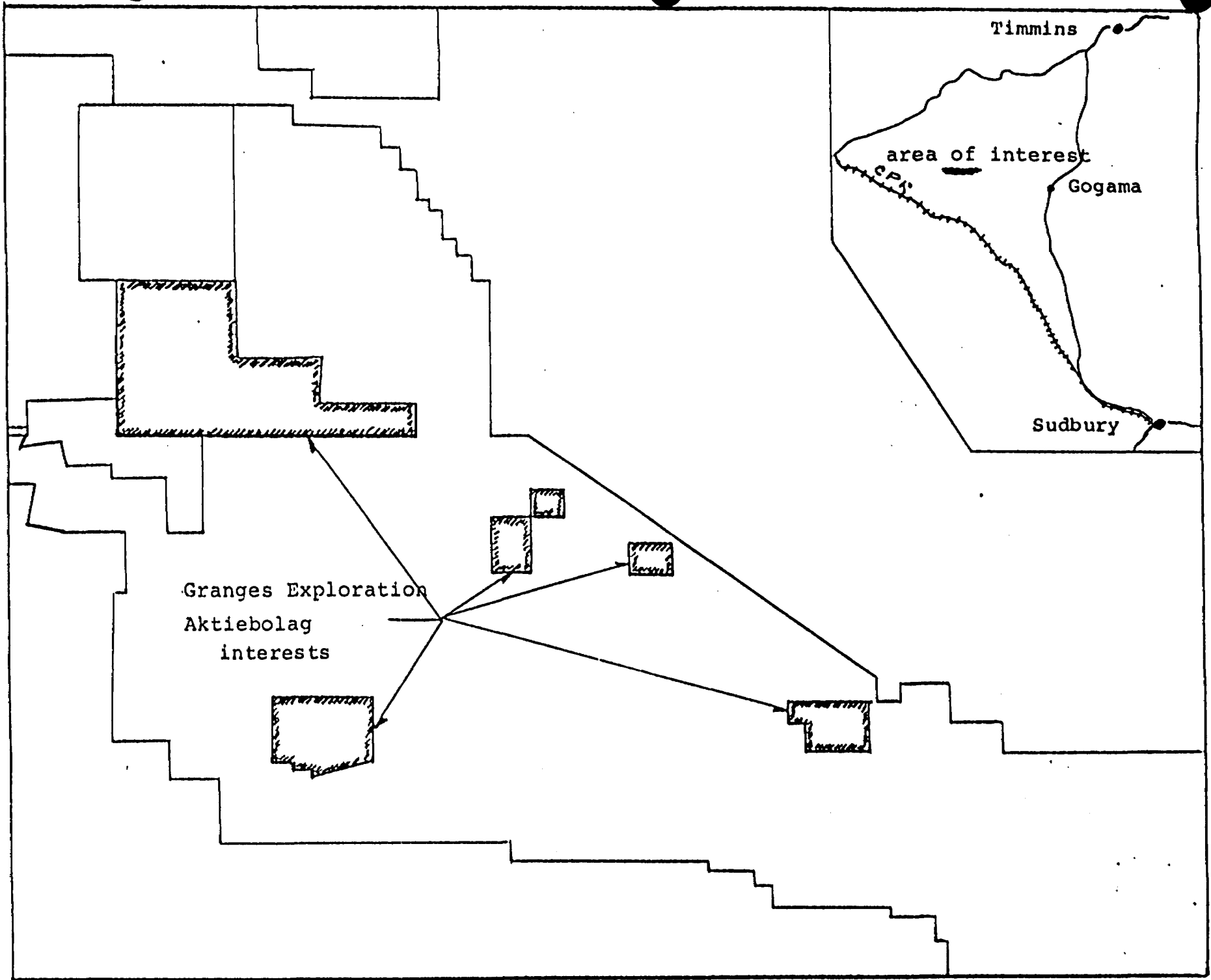
584170 to 584175 inclusive.

584177

584180 to 584185 inclusive.

530568, 530569, 530571 and 530572.

The following claims are owned by Maverick Mountain Resources and held in the name of R. R. Blusson situated in Mallard Township:



Timmins

area of interest

C.P.S.

Gogama

Sudbury

Granges Exploration
Aktiebolag
interests

576335 to 576346 inclusive,
564856 to 564862 inclusive,
574164, 574165,
576105 to 576141 inclusive,
564891,
576155 to 576190 inclusive,
576205 to 576222 inclusive.

The following claims are situated within the Huffman township and are owned by R. R. Blusson:
576372 to 576384 inclusive.

The following claims are situated in the Huffman Township and are owned by Canadian Gold and Metals:
583725 to 583729 inclusive,
583475, 586475,
586417 to 586429 inclusive.

All the above claims were held under option agreements by Granges Exploration Aktiebolag and subsequently returned to the vendors.

REGIONAL GEOLOGY

The Following summary was taken from : "Jerome Area (West), District of Sudbury, Ontario, Geological Survey Preliminary Map P. 2369, Geological Series".

Siragusa. 6M 1980

For brevity, this summary has been condensed.

A N.W. trending belt of archean meta volcanics and meta sediments crosses the area of interest.

Meta volcanics are dominately tholetic basaltic flows intersected with pyroclastic phases.

The metasidiments are dominately metamorphosed polymictic conglomerate and conglomeratic arenite, with subordinite and conglomeratic arenite and wacke and lesser laminated mudstone and interlaminated ironstone and chert. Outcrops of coarse metasediments are found along the northern and western shores of the main body of Opeepeesway lake and along the southern shore of the east are of the lake. -3-

The metamorphism of the supracrustal rocks is largely upper greenschist facies. Subvertical dips of foliation, shearing planes and primary layering are most common throughout the belt. Late Precambrian diabase dikes are common and lamprophyre dikelets are of rare occurrences in the supracrustal rocks.

Intrusive felsic porphyritic rocks that are variable metamorphosed and display concordant or discordant relationships, with respect to supracrustal rocks.

Owing to the scarcity of outcrops, the extent of the porphyritic bodies is largely interpretive.

DIAMOND DRILLING AND GEOLOGICAL INTERPRETATION

Drill follow up of the ground EM anomalies resulted in eight (8) holes GOG 1 - GOG 8 being drilled on eight separate grids GOG 1 - GOG 8 for a total footage of 1586' (483 meters).

The following is a brief summary of each hole including location, depth, geology and type of conductor intersected with resulting assays.

GOG 1 12+00 W 11+90 N - 60 Degrees Final depth 232'

Grid GOG 8 Claim # 530572

Lithologies intersected were initially a banded rhyolite then changing at footage 123.0' to a quartz chlorite schist.

The conductor was a graphitic schist with minor disseminated and banded pyrite with isolated minor amounts of sphalerite, chalcopyrite, galena and arsenopyrite. Intersections encountered are as follows:

135.1 - 139.8 : Graphitic shears, minor pyrite
164.7 - 167.2 : Graphitic shears, 1% disseminated pyrite
171.3 - 173.0 : Minor graphite, 2% disseminated pyrite
191.0 - 196.7 : Re-worked graphitic zone 1-3% re-worked pyrite
203.0 - 206.5 : Graphitic shears, 1% pyrite sparse sphalerite
208.0 - 210.0 : 0.5% Sphalerite with calcite veinlets
216.5 - 221.5 : Graphite rich section, 1-2% banded pyrite
trace arsenopyrite, minor sphalerite.

Interesting assays received are as follows:

192.0 - 196.7 : (4.7') 0.64% zinc
208.0 - 220.5 : (12.5') 0.32% zinc

GOG 2 48+00 E 42+70 N -50 degrees N Final depth 278'
Grid GOG 1-E1/2 Claim # 576157

Lithologies intersected were a massive siliceous rhyolite and a minor six foot section of quartz chlorite schist.

The conductors encountered were discrete narrow bands of pyrrhotite and pyrite from 119.7 to 219.5 and also from 231.4 (up to two inches in width) to 234.0.

All assays returned no values for gold, silver, copper and zinc.

GOG 3 12+00 W 6+20 N -50 Degrees N Final depth 138'
Grid GOG 3 claims # 576355

A massive slightly porphyroclastic rhyodacite was encountered throughout this hole.

The conductors encountered were a 7.1' section of 3% to near solid pyrrhotite with 1-5% banded pyrite section at 90 feet and a 2.8 foot massive graphite with 1.5% pyrite section at 117.7 feet.

Mineralization intersected is as follows;

71.3 - 73.1 : 3% disseminated pyrite
95.0 - 98.0 : 1-2% pyrrhotite "streaked"
98.0 - 102.0 : 3% pyrrhotite 1% pyrite banded
102.0 - 105.1 : 10-50% pyrrhotite 5% pyrite banded
114.7 - 117.5 : massive graphite, 1-5% pyrite banded

All assays returned no values for gold, silver, copper and zinc.

GOG 4 6+00 E 7+70 N -60 Degrees N Final depth 238'
Grid GOG 2 Claim # 576342

Lithologies intersected were a massive rhyodacite, a banded rhyolite, a quartz sericite (chlorite) schist, and finally a massive basalt.

The conductor was 5-10% pyrrhotite, 1% pyrite banded withing the quartz sericite schist.

Mineralization encountered is as follows:

136.5 - 138.8 : 1-2% pyrrhotite banded
138.8 - 140.2 : 5-10% pyrrhotite, 1% pyrite
142.1 - 143.2 : 5% pyrrhotite, 1% banded pyrite

All assays returned no values for gold, silver, copper and zinc.

GOG 5 0+00 6+15 N -50 Degrees N Final depth 150'
Grid GOG 7 Claim # 586421

Lithologies intersected were a rhyodacite tuff, a massive diorite, a dacite tuff and chlorite graphite schist.

The conductor was the 3.5' chlorite graphite schist section at 121.5 feet with 2-10% pyrrhotite and 2% pyrite associated.

All assays returned no values for gold, silver, copper and zinc.

GOG 6 12+00 E 8+15 N -50 Degrees N Final depth 145'
Grid GOG 6 Claim # 583727

Lithologies intersected were a quartz chlorite (garnet) schist and a rhyodacite tuff.

The conductor was banded pyrrhotite within the quartz chlorite schist.

Mineralization encountered is as follows:

89.9 - 92.0 : 5-10% pyrrhotite banded
95.5 - 96.0 : 3% pyrite banded
109.5 -110.0 : 5% pyrite disseminated
118.0 -118.8 : 3% pyrite and pyrrhotite disseminated

All assays returned no values for gold, silver, copper and zinc.

GOG 7 4+00 W 2+05 N -60 Degrees N Final depth 208'
Grid GOG 5 Claim # 576383

Lithologies intersected was a quartz chlorite schist and a dacite tuff.

The conductor encountered was a banded to nearly solid 4.9 foot section of pyrrhotite with minor chalcopryrite and sphalerite.

Mineralization intersected is as follows:

106.5 - 110.5 : 2% pyrrhotite banded trace chalcopryrite
110.5 - 111.4 : near solid pyrrhotite banded, trace pyrite,
minor chalcopryrite 1% sphalerite disseminated

The only interesting assay received was a 0.9 foot section at 110.5 feet which returned 0.10% copper and 0.35% zinc with 1.5 grams of silver.

GOG 8 14+00 W 9+75 S -55 Degrees N Final depth 197'
Grid GOG 4 Claim # 576376

Lithologies encountered were a dacite tuff, a diorite, a quartz chlorite schist and a rhyodacite tuff.

The conductor, within the quartz chlorite schist was 6.8 foot section at 106.1 feet of banded pyrite and pyrrhotite with trace to 1% chalcopryrite disseminated within.

Mineralization intersected is as follows;

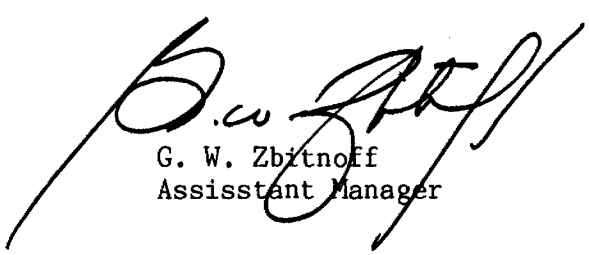
106.1 - 109.5 : minor 2% pyrite banded
111.2 - 112.9 : banded pyrite and pyrrhotite, 1% chalcopryrite disseminated.

Interesting assays received are as follows:

106.1 - 109.5 : (3.4') 0.31% copper
111.2 - 112.9 : (1.7') 0.47% copper with 2.5 grams silver

the drilling was supervised by E. Fluskey, a Granges project geologist and was completed on november 21st, 1982.

Respectfully submitted,


G. W. Zbitnoff
Assistant Manager

GOGAMA DIAMOND DRILLING

OM 82 - 5 - C - 110

TOTAL EXPENDITURES

FROM OCTOBER 1 1982 TO OCTOBER 1 , 1983

Salaries	\$6,596.81
Expenses	814.46
Transportation & Communication	2,980.64
Assaying	1,653.00
Camp, Food	283.61
Contractors	<u>37,584.31</u>
	49,912.83

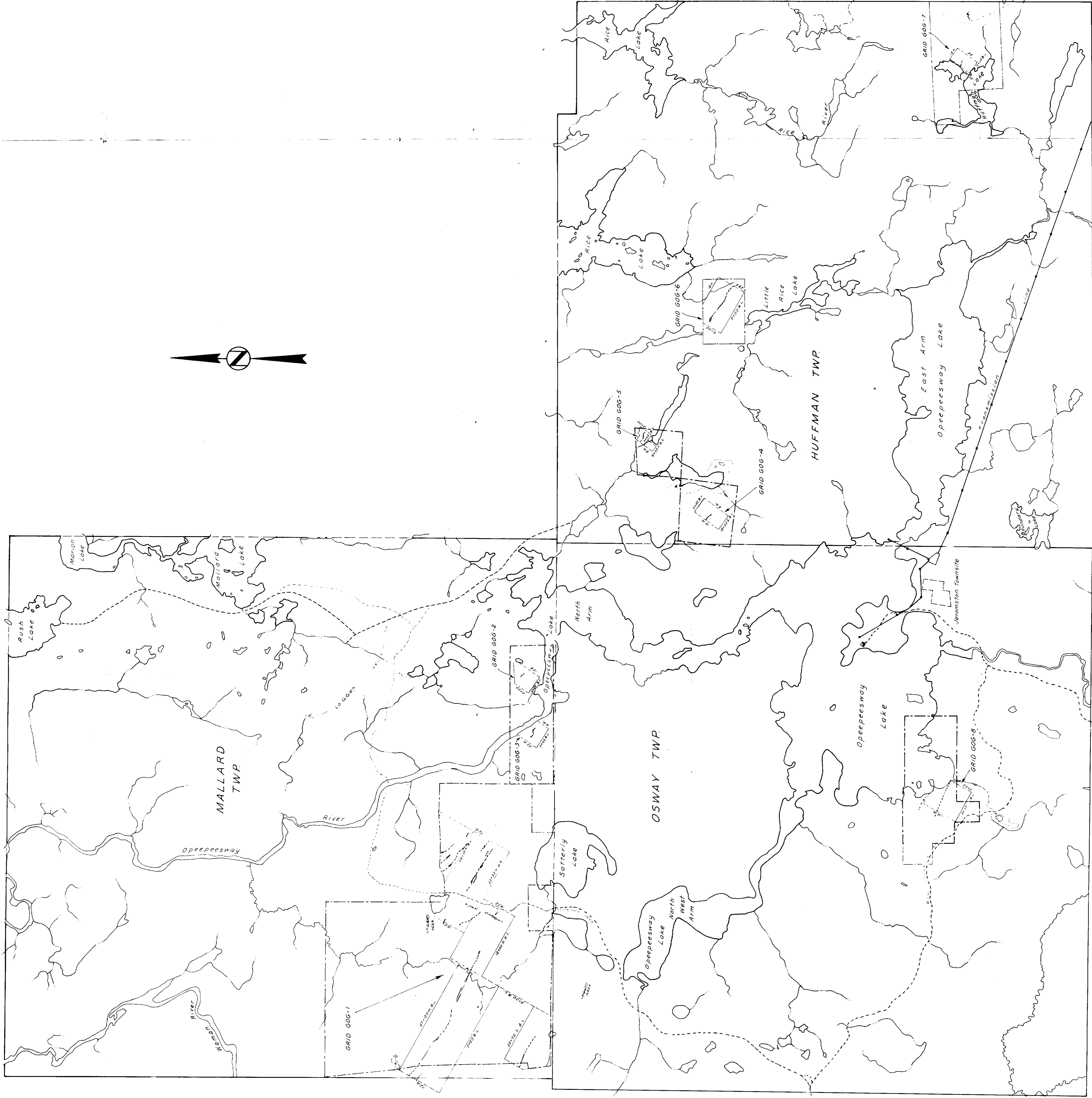
Ba. J. J. J.



OM82-5-C-110

THIS SUBMITTAL CONSISTED OF VARIOUS REPORTS, SOME OF WHICH HAVE BEEN CULLED FROM THIS FILE. THE CULLED MATERIAL HAD BEEN PREVIOUSLY SUBMITTED UNDER THE FOLLOWING RECORD SERIES (THE DOCUMENTS CAN BE VIEWED IN THESE SERIES):

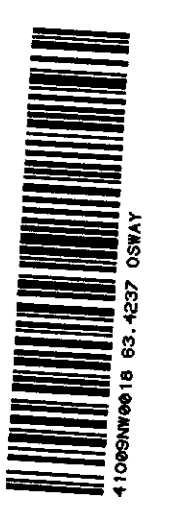
- ① DRILL HOLE GOG-1 → See Toronto File, OSWAY TWP. D.D.R. #15
→ MINING RECORDER, REPORT OF WORK FOR 1983, #58
- ② DRILL HOLES GOG-2 to GOG-4 ⇒ Toronto File, MALLARD TWP. D.D.R. #15
⇒ MINING RECORDER, REPORT OF WORK FOR 1982, #445
- ③ DRILL HOLE GOG-5 ⇒ Toronto File, HUFFMAN TWP. D.D.R. #21
⇒ MINING RECORDER, REPORT OF WORK FOR 1983, #25
- ④ DRILL HOLE GOG-6 ⇒ Toronto File, HUFFMAN TWP. D.D.R. #23
⇒ MINING RECORDER, REPORT OF WORK FOR 1983, #24
- ⑤ DRILL HOLES GOG-7 to GOG-8 ⇒ Toronto File, HUFFMAN TWP. D.D.R. #22
⇒ MINING RECORDER, REPORT OF WORK FOR 1983, #15

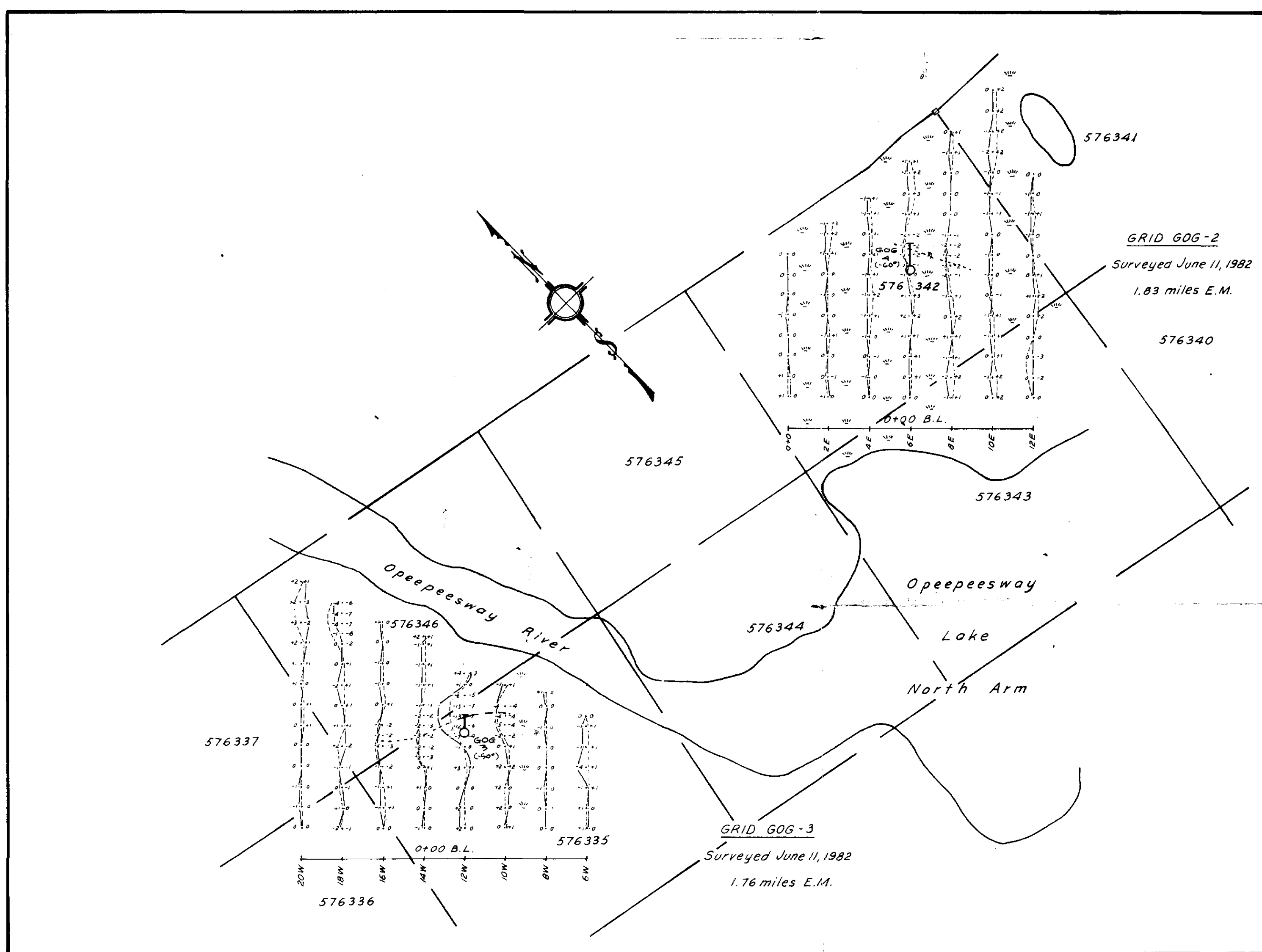
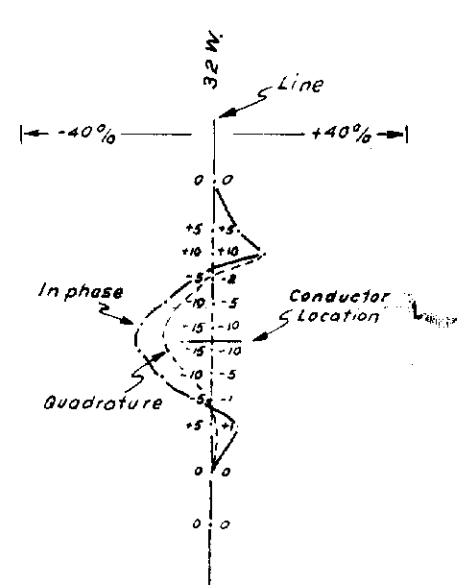
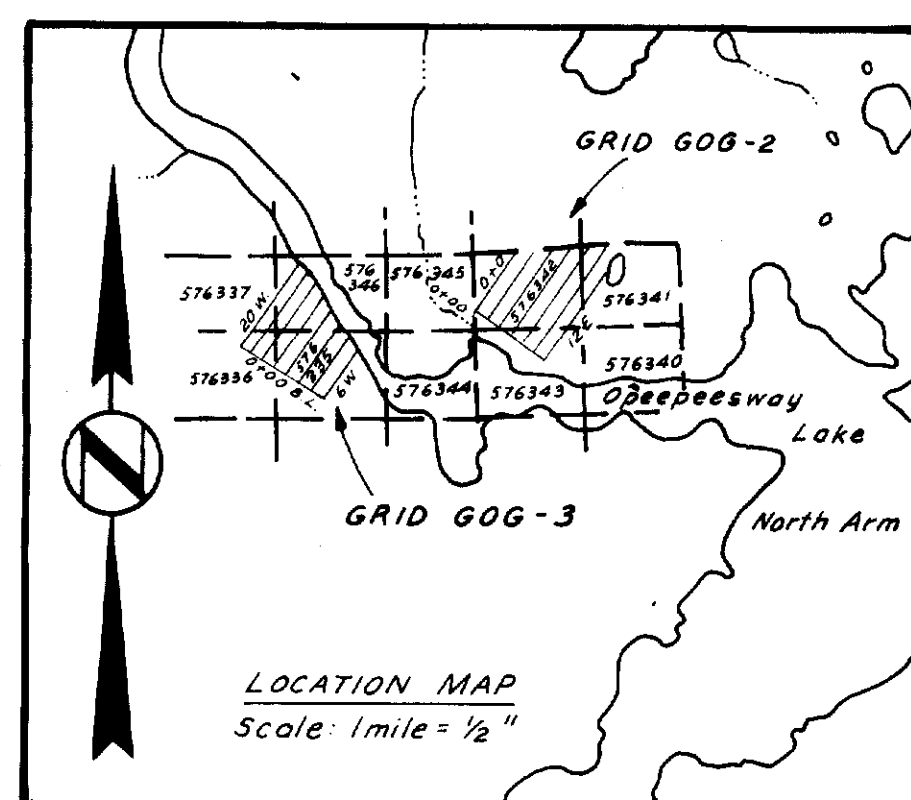
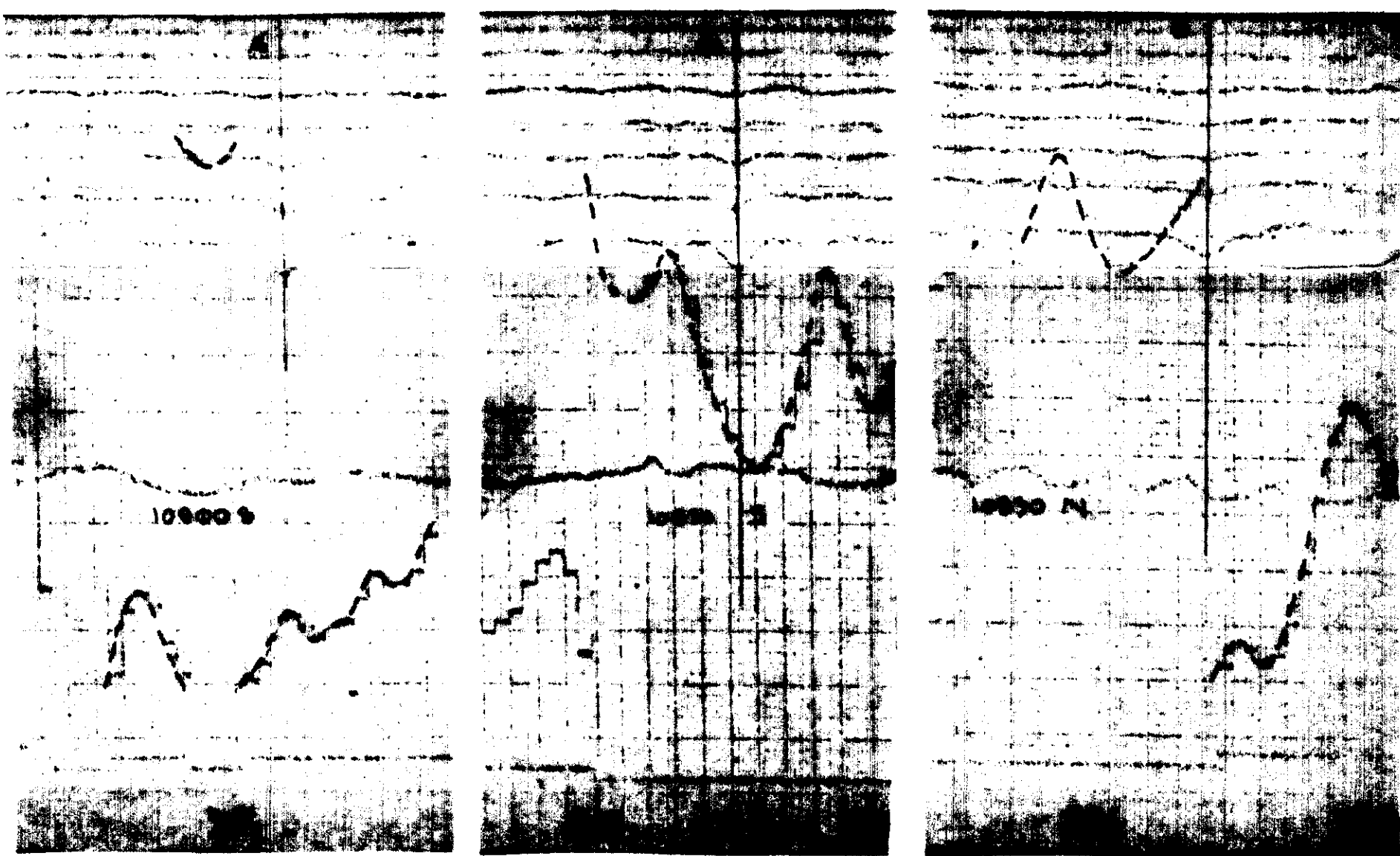


OH 82-5-C-110
 CLAIM OUTLINES AND E.M. SURVEYS
 GOGAMA PROJECT
 Mallard, Osway & Huffman Twp's Ontario
 PROJECT No: 70907
 N.T.S. No:

GRANGES EXPLORATION AB
 CANADIAN DIVISION
 VANCOUVER OFFICE

DRAWN BY: G.T.
 DATE: July 1982





41089N0818 83.4237 05WAY

230

Surveyed by Floyd Hussey and Associates
June 11, 1982
Coil Spacing: 300 ft
Frequency: 1777 Hz
Profile Scale: 1" = 40%
Miles Surveyed: 3.59

DRAWN BY: G.T.
DATE: July, 1982
In phase to left of line
Quadrature to right of line

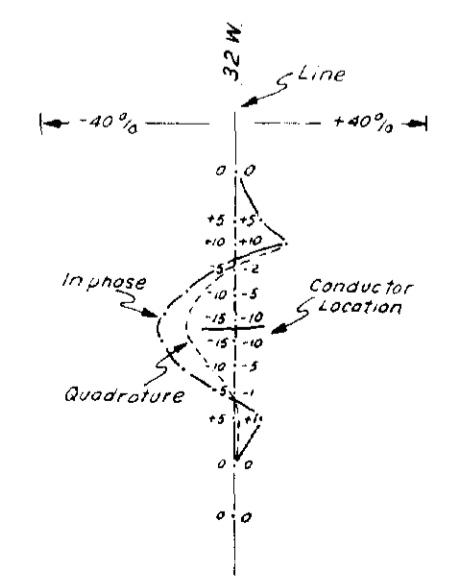
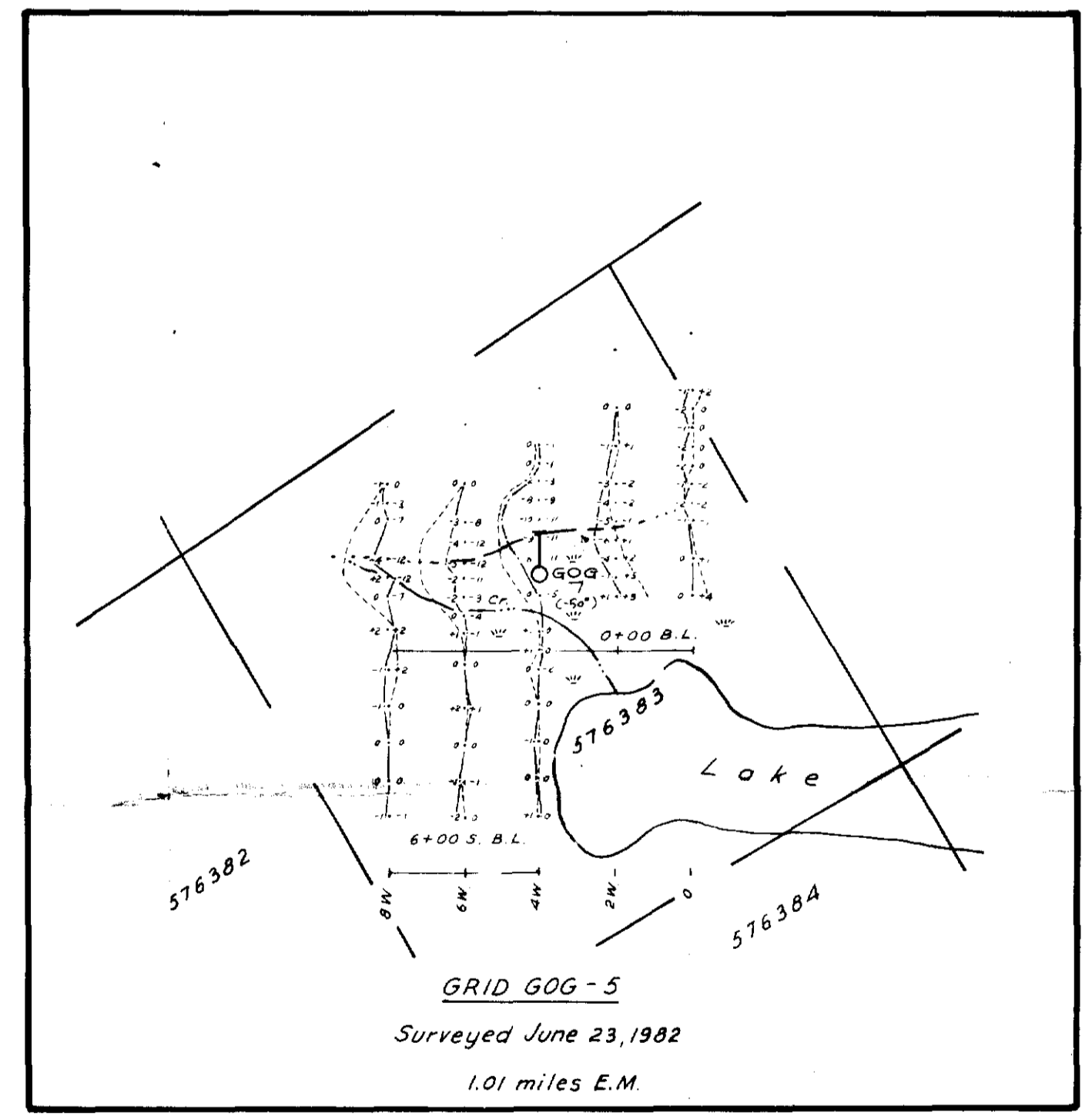
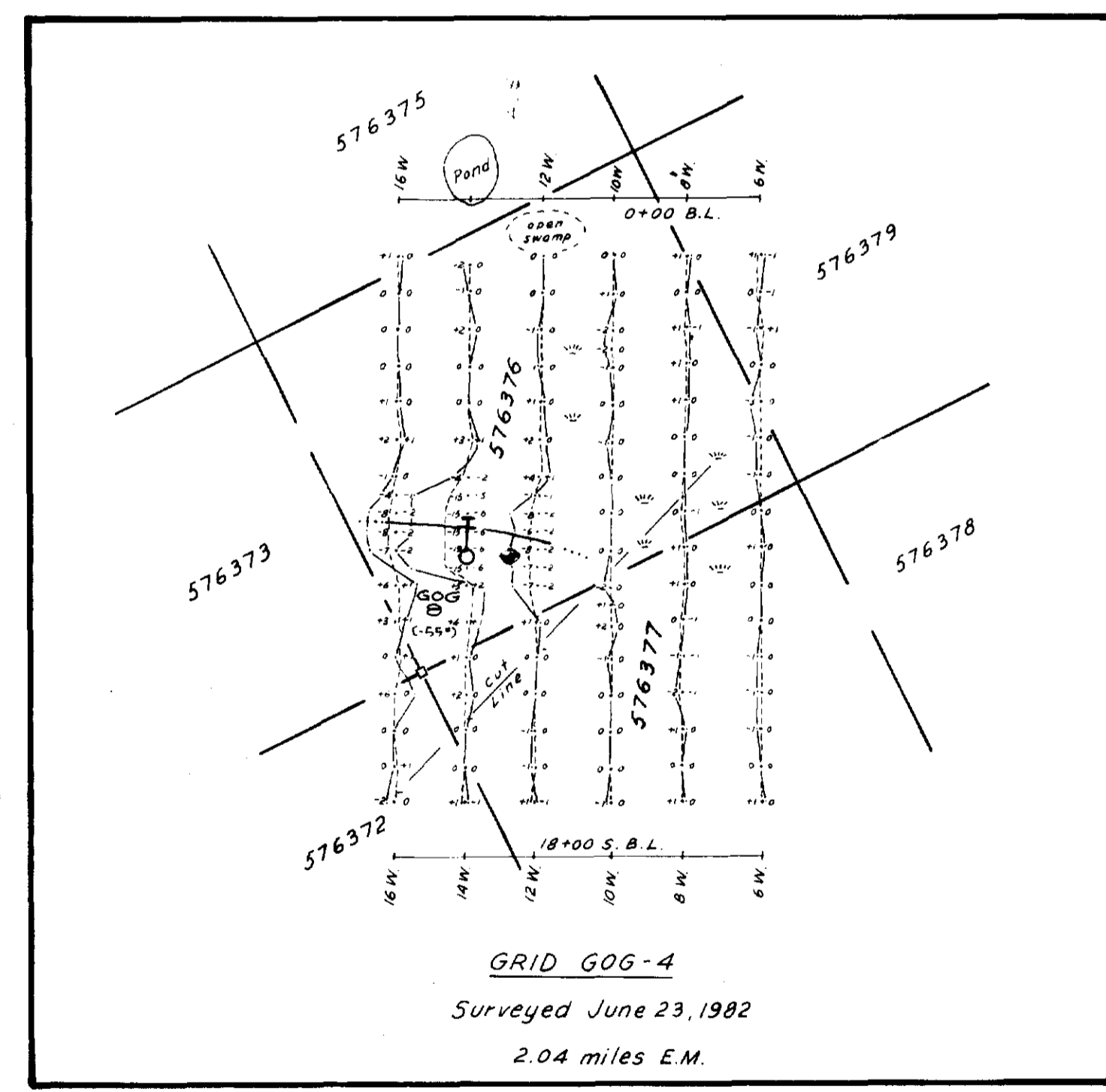
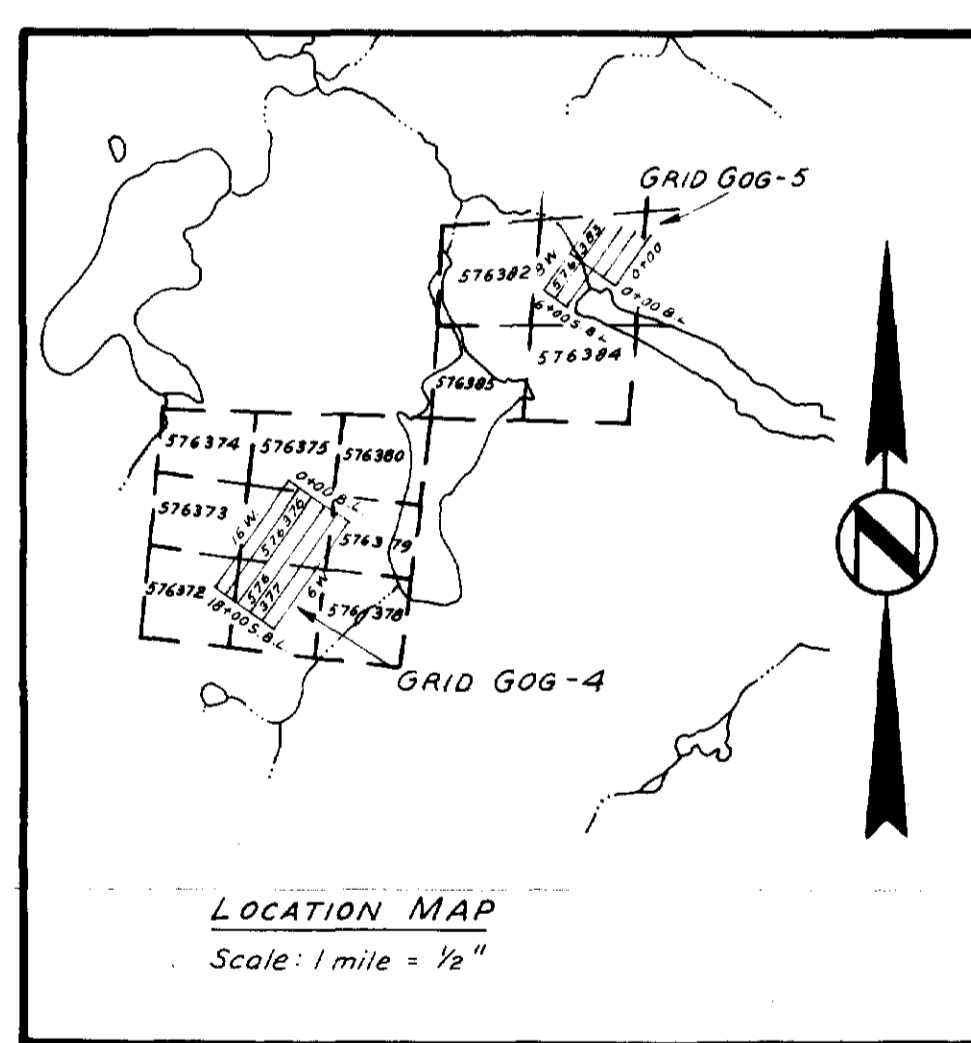
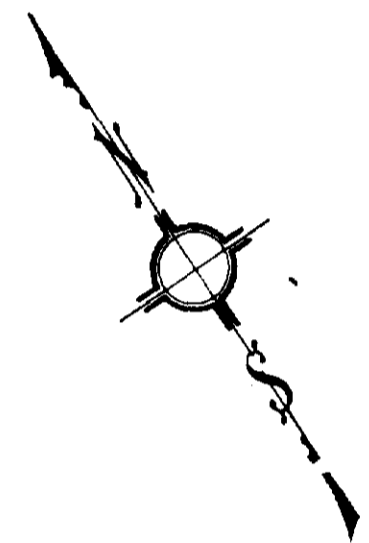
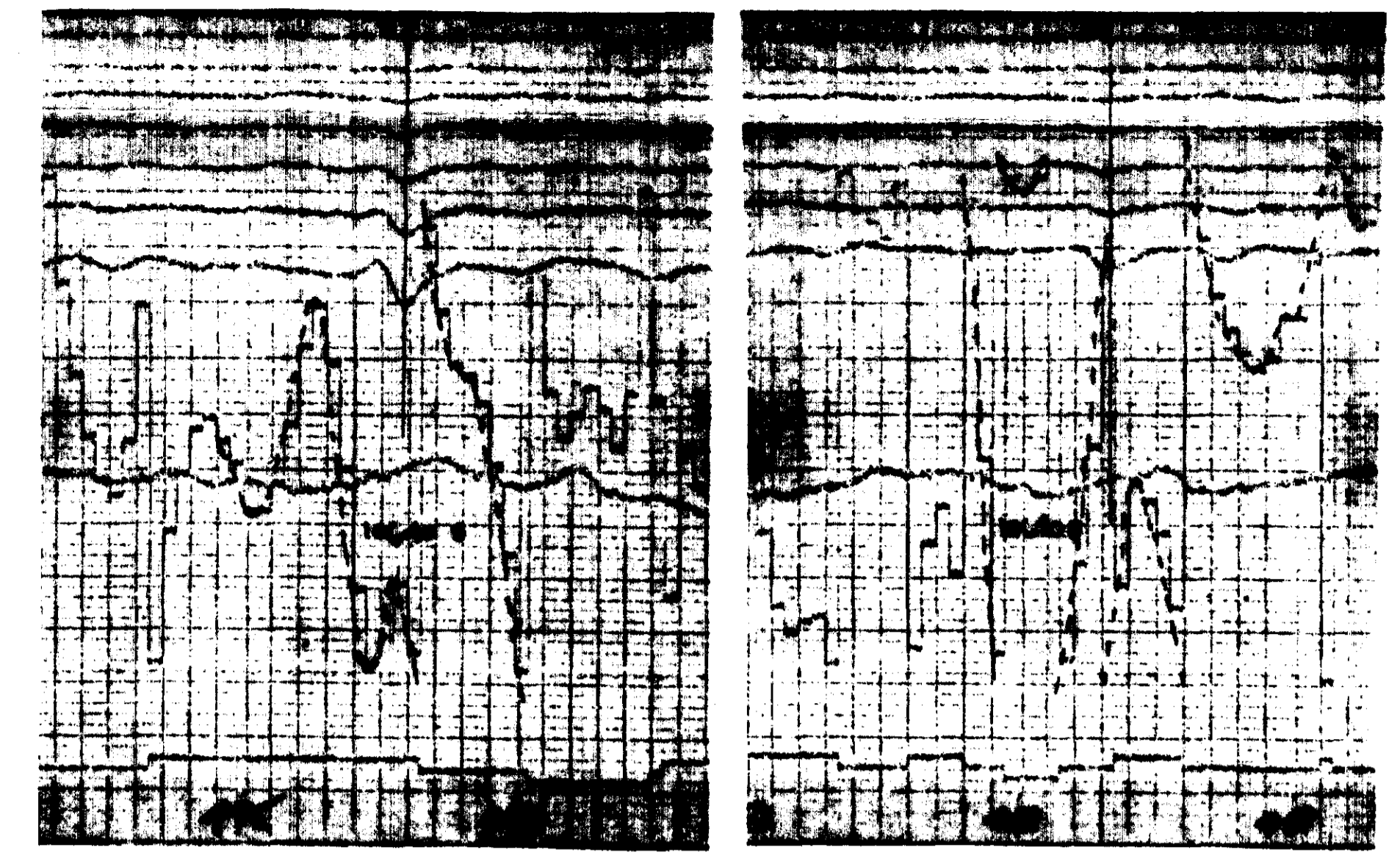
GRANGES EXPLORATION AB
CANADIAN DIVISION
VANCOUVER OFFICE

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY
GOGAMA PROJECT
(Maverick)
Grids Gog 2 & 3
Mallard Twp. Ontario

SCALE: 1" = 400' or 1:4800
PROJECT No.: 70508
N.T.S. No.:

OM 82-5-C-110

63.4237



E.M. KEY
Scale:
1" = 400'
1" = 40%

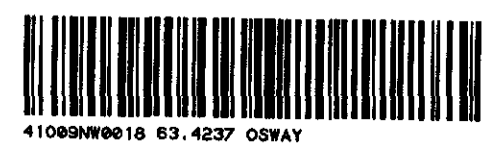
Surveyed by Floyd Hussey and Associates
June 23, 1982
Cable Spacing : 300 ft.
Frequency : 1777 Hz
Profile Scale : 1" = 40%
Miles Surveyed : 3.05

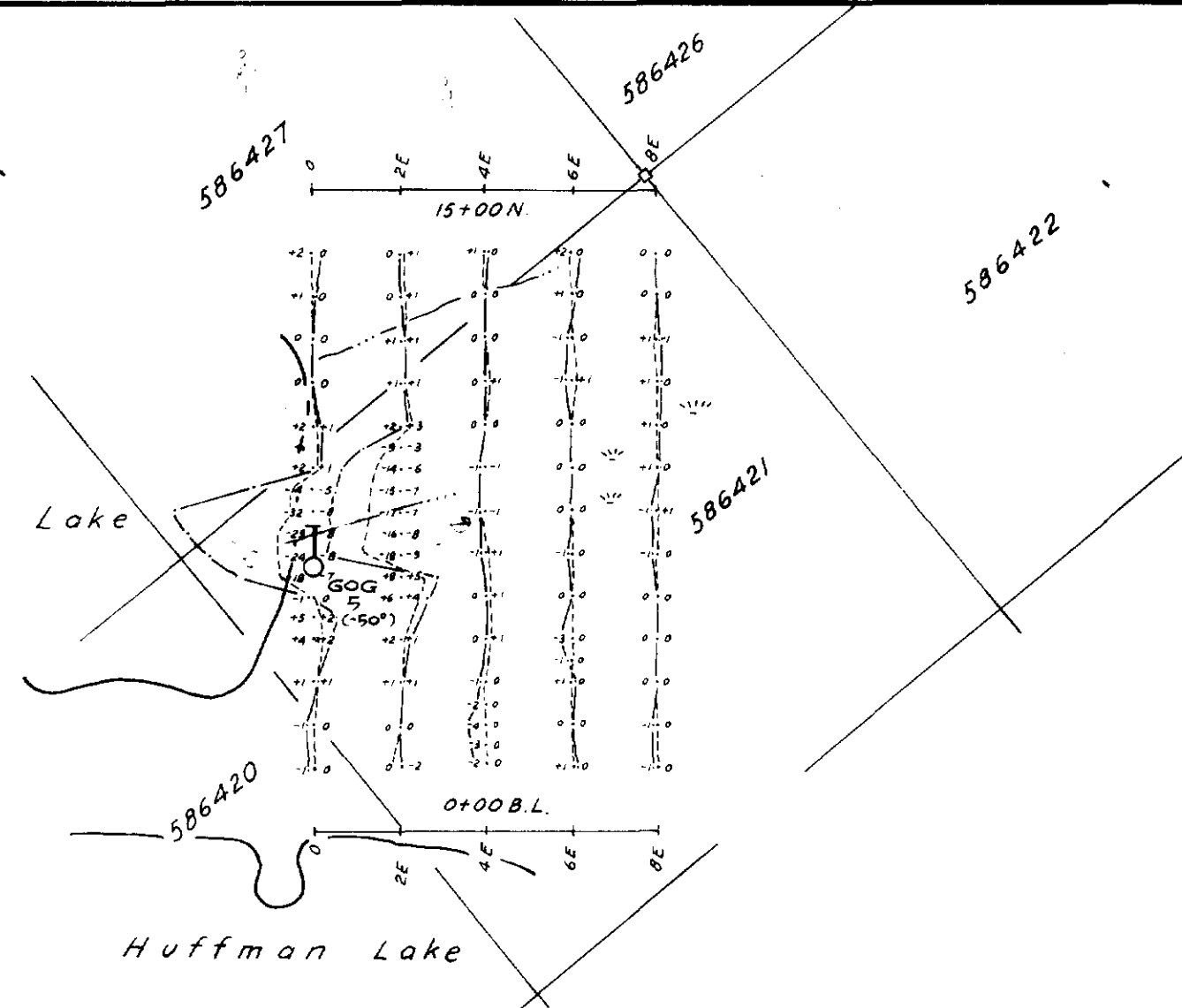
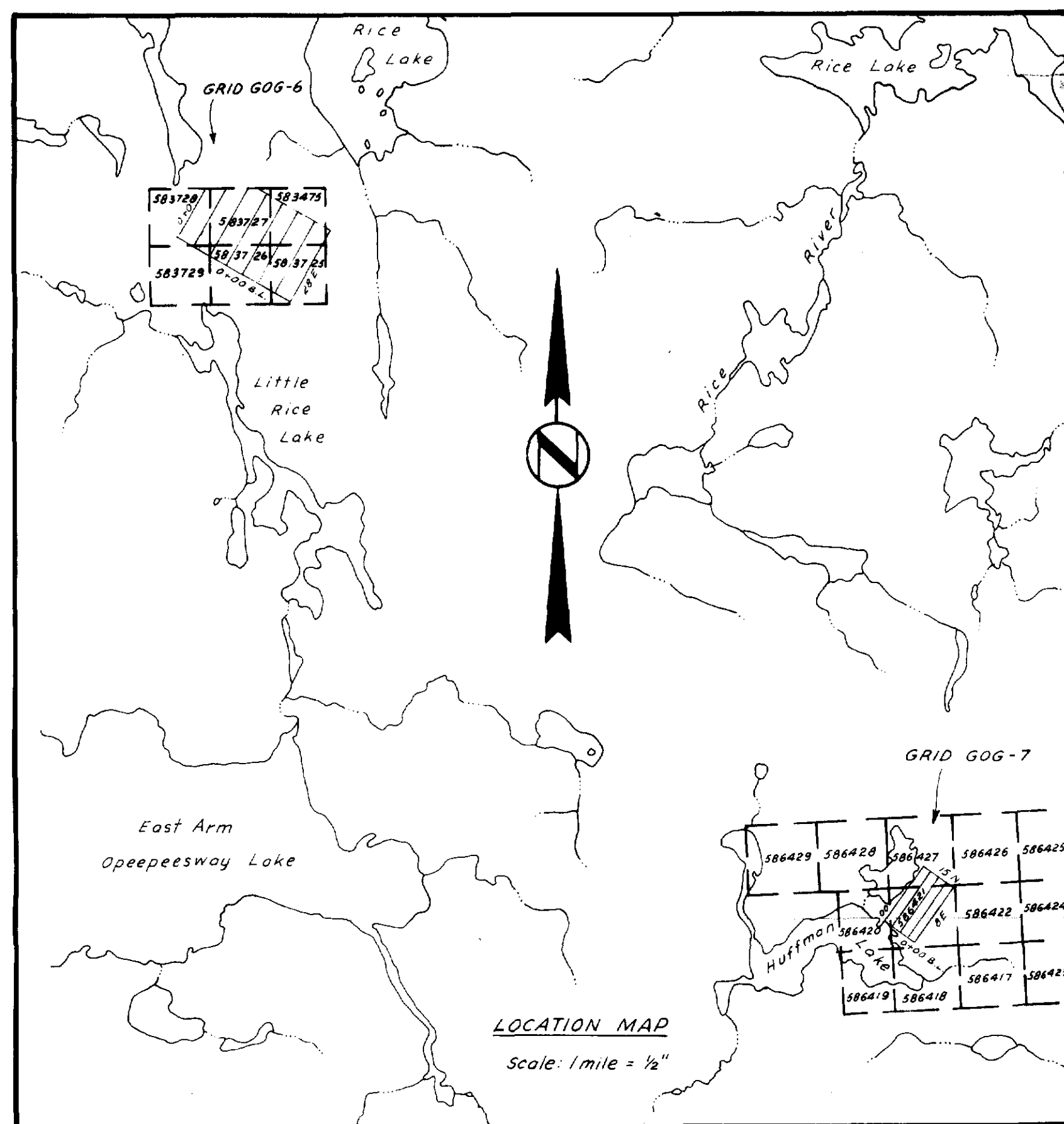
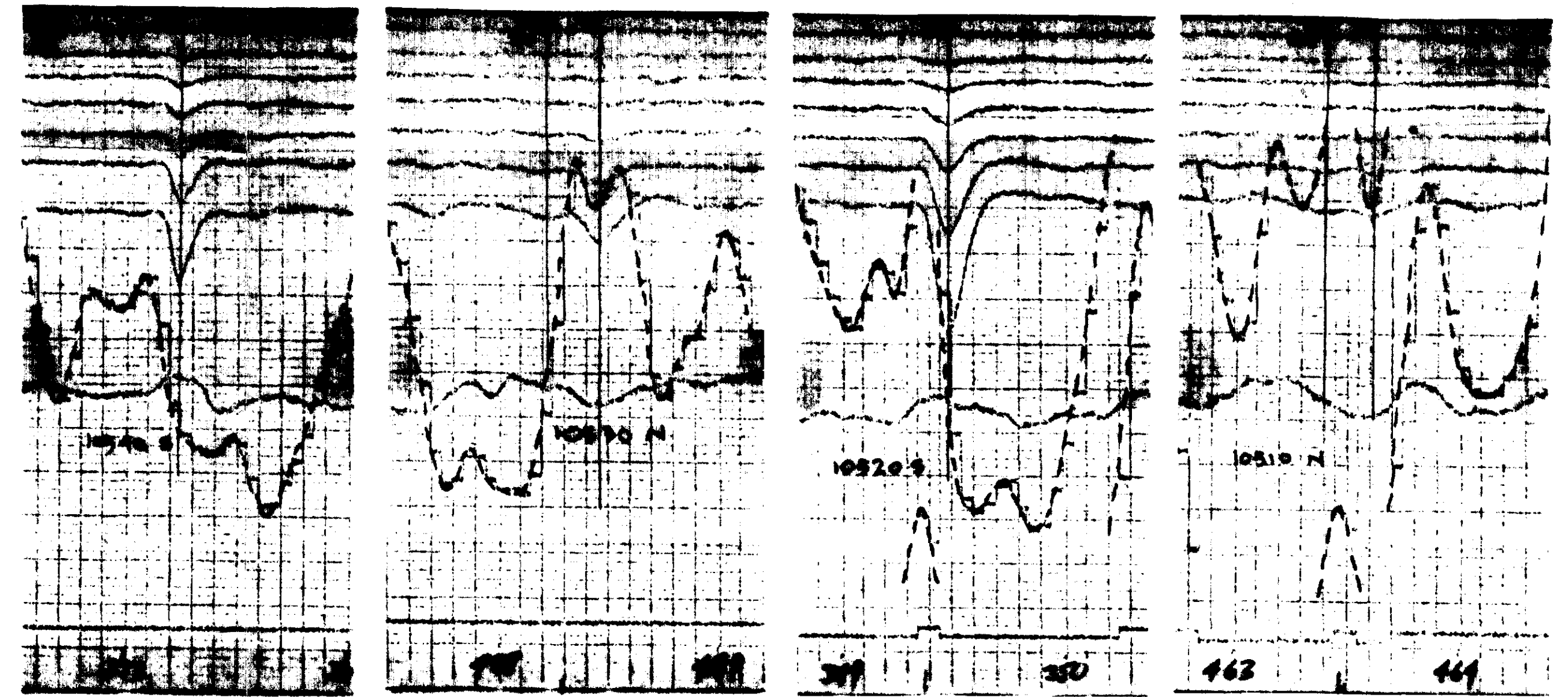
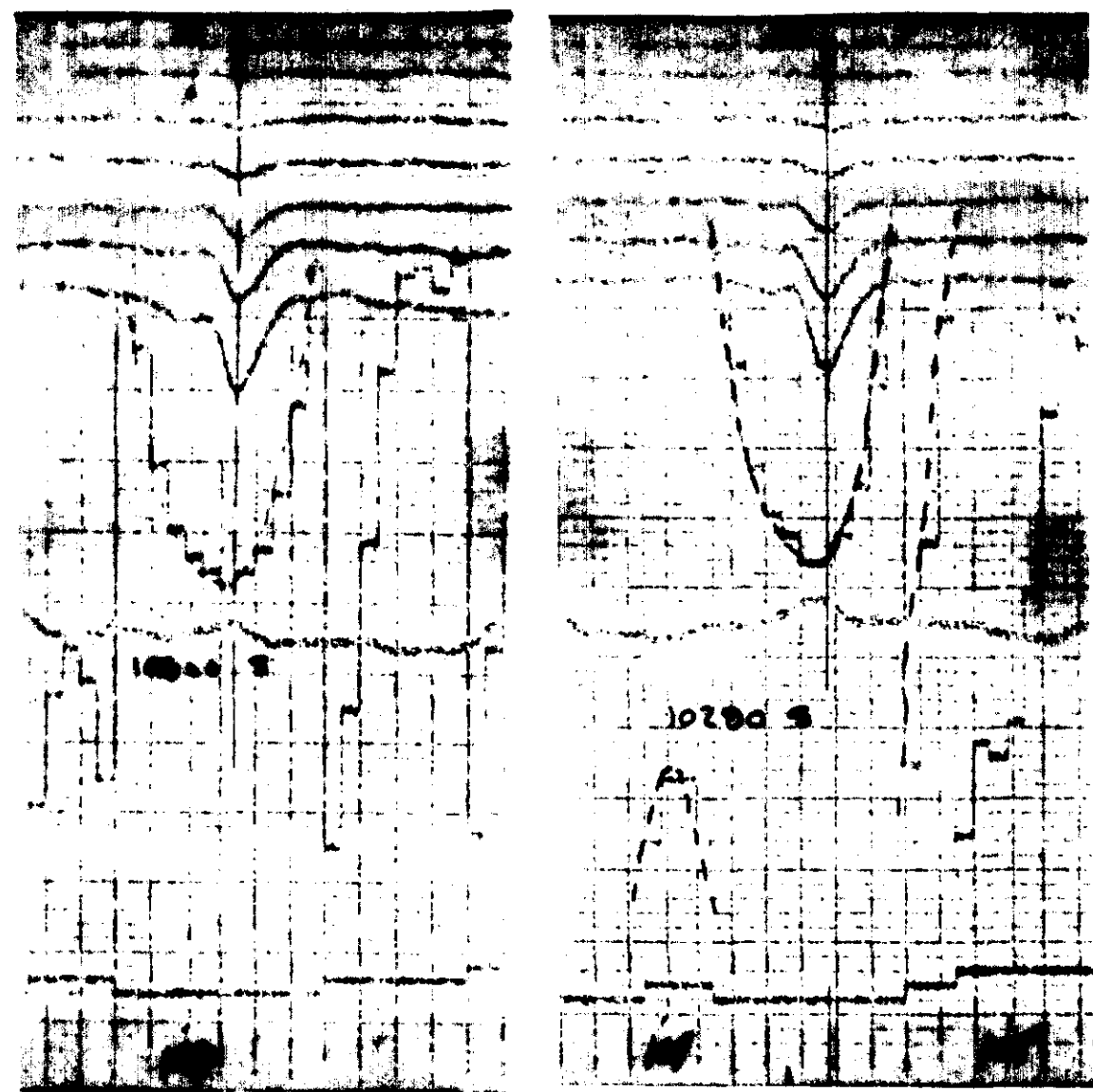
DRAWN BY: G.T.
DATE: July, 1982
In phase to left of line
Quadrature to right of line

GRANGES EXPLORATION AB
CANADIAN DIVISION
VANCOUVER OFFICE

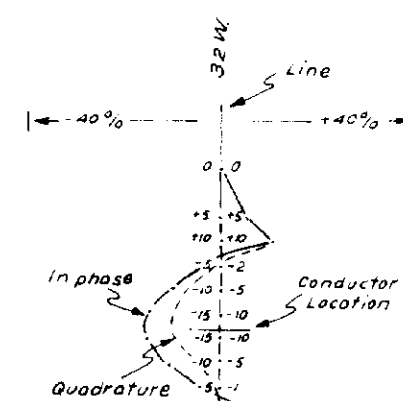
DM 82-5-C-110
HORIZONTAL LOOP ELECTROMAGNETIC SURVEY
GOGAMA PROJECT
(Blusson)
Grids Gog 4 & 5
Huffman Twp. Ontario

63-4237
SCALE: 1" = 400' or 1:4800
PROJECT No.: 70507
N.T.S. No.:

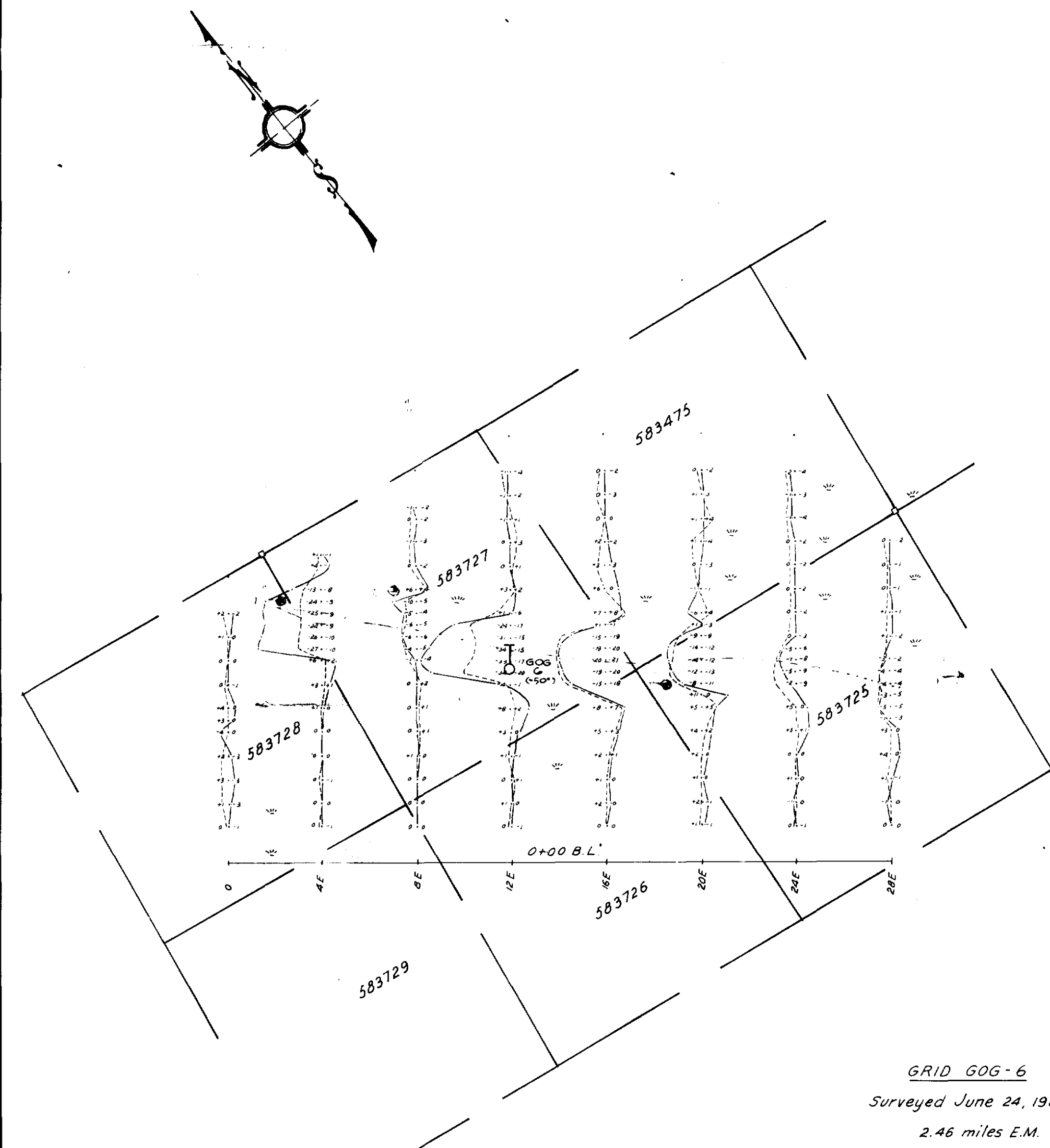




GRID GOG-7
 Surveyed June 25, 1982
 1.42 miles E.M.



E.M. KEY
 Scale
 1" = 400'
 1" = 40%



GRID GOG-6
 Surveyed June 24, 1982
 2.46 miles E.M.



Surveyed by Floyd Hussey and Associates
 June 24 and 25, 1982
 Coil Spacing : 300 Ft.
 Frequency : 1777 Hz
 Profile Scale : 1" = 40%
 Miles Surveyed : 3.88

DRAWN BY: G.T.
 DATE: July, 1982
 In phase to left of line
 Quadrature to right of line

GRANGES EXPLORATION AB
 CANADIAN DIVISION
 VANCOUVER OFFICE

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY
 GOGAMA PROJECT
 (Canadian Gold and Blusson)
 Grids GOG 6 and 7
 Huffman Twp. Ontario

SCALE: 1" = 400' OR 1:4800
 PROJECT No.: 70507
 N.T.S. No.:

OM 82-5-C-110

63-4237

