GM 52302

GEOPHYSICAL SURVEYS, DUFAY "A" & "B" CLAIM GROUPS

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Québec

SERVICES EXPLORATION SERVICES Enrg. Reg'd.

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RAVEN RESOURCES INC

GEOPHYSICAL SURVEYS

DUFAY "A" & "B" CLAIM GROUPS

Dufay Twp. Québec

October 1993

ENERGIE ET RESSOURCES - SECTEUR MINES
REÇU
15 JAN 1994
BUREAU RÉGIONAL
ROUYN-NORANDA

MER - S.I.S.E.M. 1994/03/24
GM 52302

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I - INTRODUCTION:

At the request of RAVEN RESOURCES INC., geophysical surveys were carried out, by Exploration Services Reg'd, during the mont of October 1993, on two mining properties located in Dufay township, province of Québec.

The magnetometer survey was undertaken to evaluate circular airborne magnetic features and the V L F electromagnetic survey was carried out to locate INPUT anomalies.

II - PROPERTY:

The two claim groups located in the northwestern quadrant of Dufay township contain the following claims:

Group "A":

5068911 - 5068912 - 5068913 - 5068914 - 5086025
5086026 - 5086027 - 5086028 -5086029

Group "B":

5086030 - 5095210 - 5095211 - 5095212 - 5095213
5095214.

III - LOCATION & ACCESSIBILITY:

The two claim groups are located in the northwestern quadrant of Dufay township, province of Québec, at an approximate distance of 38 kilometers west of the city of Rouyn-Noranda, Québec.

From Rouyn-Noranda, the claim groups may be reached by driving along highway 117 westward to the Ontario-Québec provincial boundary, a distance of 40 kilometers, then southwards along an access road for a distance of 2 Km. From this point, a secondary access road leads southeastwards to claim group "A".

II - GEOPHYSICAL SURVEYS:

The surveys were carried out along previously cut grids with 1Km meter long base lines trending at 60°; cross lines were cut at every 200 meter intervals.

Thus a total of 6.3 Km were surveyed on claim group "A" and 5.3 Km on claim group "B".

Magnetometer Survey:

An E. D. A. nuclear precession magnetometer was used for the survey with accompanying base station.

Readings were taken at every 12.5 meter intervals.

Claim Group "A":

The 1 100 gamma contour interval outlines an oval-shaped magnetic feature from L 0 to line 6 E with its long axis parallel to the base line. This magnetic feature narrows northeastwards.

Smaller magnetic anomalies have also been observed between 2 S and 3S on lines 6 E and 8 E.

The magnetic anomalies may be caused by the presence of mafic or ultramafic intrusives or by a kimberlite pipe with accompanying dykes.

Claim group "B":

The 1 200 gamma contour interval oulines a large oval-shaped magnetic feature whose long axis trends parallel to the base line. This magnetic anomaly appears to be 800 meters long and 500 meters wide.

It also may be caused by the presence of mafic or ultramafic intrusives or by a kimberlite pipe.

Electromagnetic V L F Survey:

A Geonic's E M -16 V L F unit was used for the survey. Readings were taken at every 25 meter intervals tuned to station NAA.

Claim Group "A":

Two E.M. conductors have been outlined by the survey: segmented conductor "a" occurs in the vicinity of 2+50 N bordering the northern edge of the main magnetic feature of the area. The optimum response of this conductor has been observed on L 6 E with axis at 3+00 N.

Conductor "b" borders the northern edge of small magnetic anomalies located south of the base line. This E.M. conductor trends northeast intersecting line 6 E at 1+50 S and line 8 E at 2+25 S.

Claim Group "B":

Three parallel E.M. conductors have been outlined by the survey: anomaly "a" trends northeastwards from L 4 E to line 10 E. Its optimum response has been observed on line 8 E with conductor axis at 0+75 N. This conductor occurs within and parallel to the northern edge of the main magnetic feature of the area.

Conductor "b" also trends northeastwards from 1+00 N on line 0 to 0+25 S on line 6 E. It occurs west of the main magnetic feature.

Conductor "c" traverses line 8 E at 3+25 S and line 10 E at 3+50 S - it appears to be coincident with the small magnetic anomalies of the area.

IV - CONCLUSIONS AND RECOMMENDATIONS:

The magnetometer surveys have outlined oval-shaped magnetic features on each claim group. These may indicate the presence of kimberlite pipes.

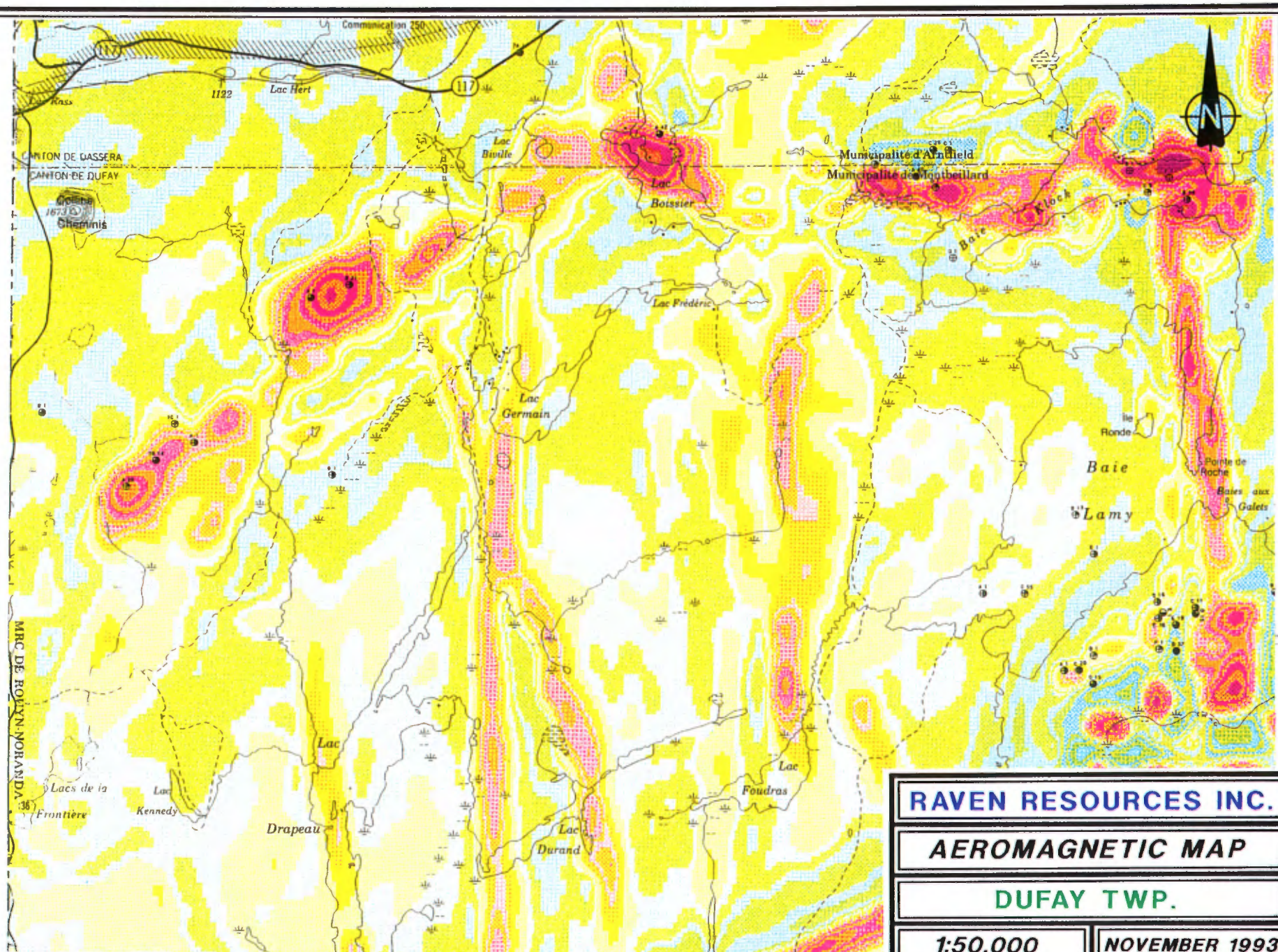
The V L F electromagnetic surveys have outlined two conductors on claim group "A" and three conductors on claim group "B"; most of these are adjacent to the main magnetic features.

It is recommended that geological surveys be undertaken on both claim groups in order to elucidate the causes of the magnetic and electromagnetic anomalies.

Respectfully submitted:

Edouard Chartré, B.A., B. Sc.

October 10, 1993



RAVEN RESOURCES INC.

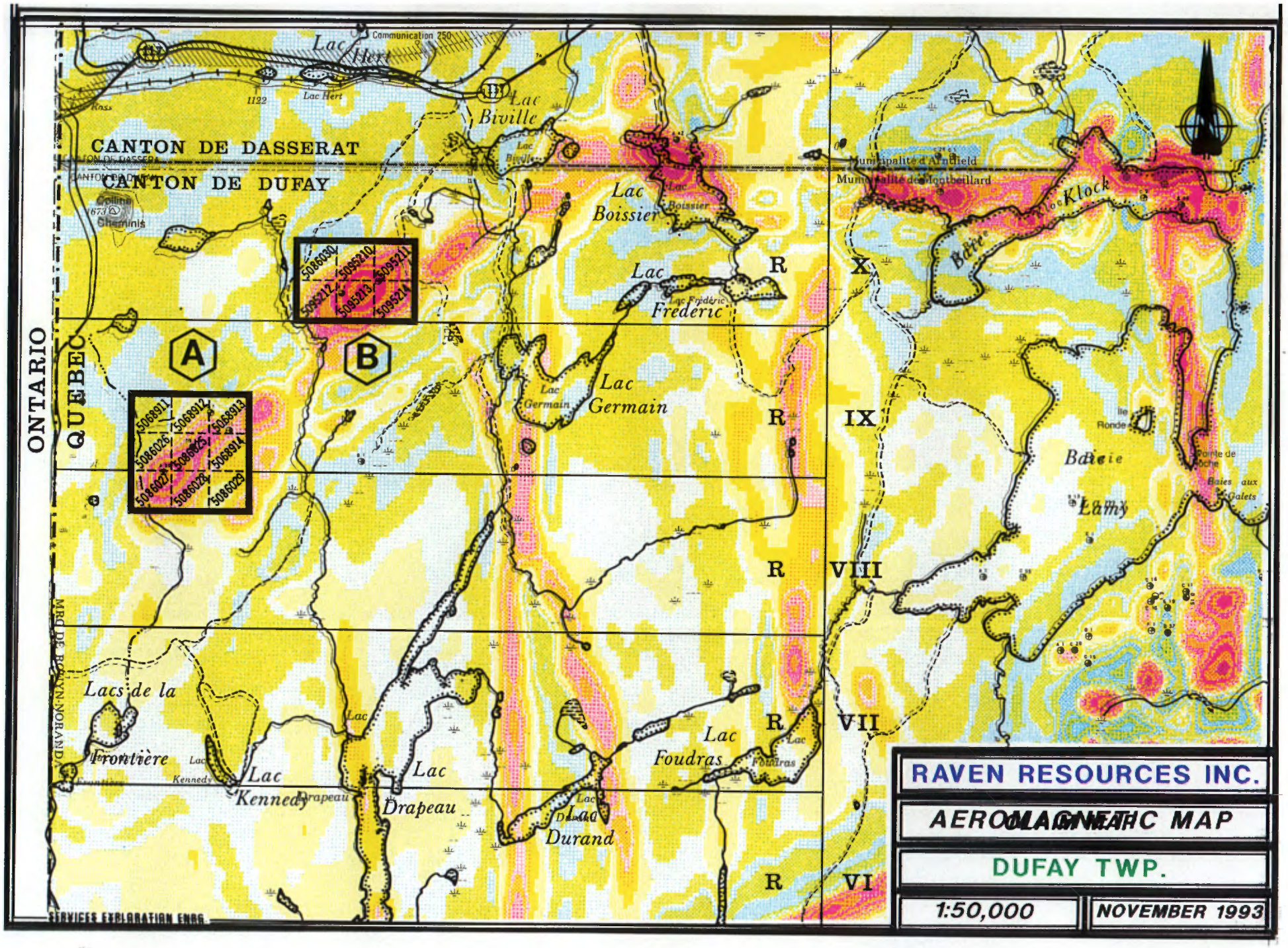
AEROMAGNETIC MAP

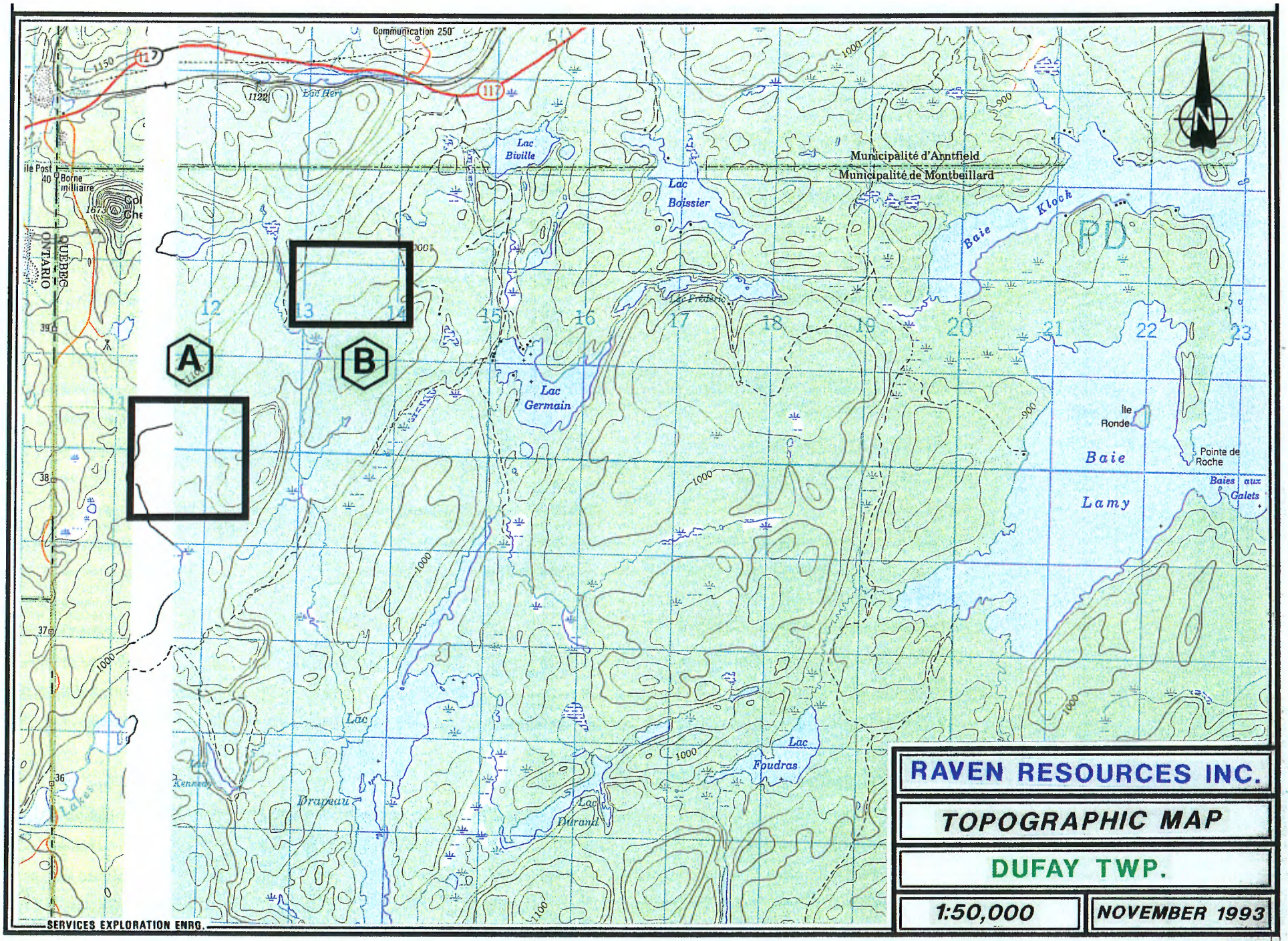
DUFAY TWP.

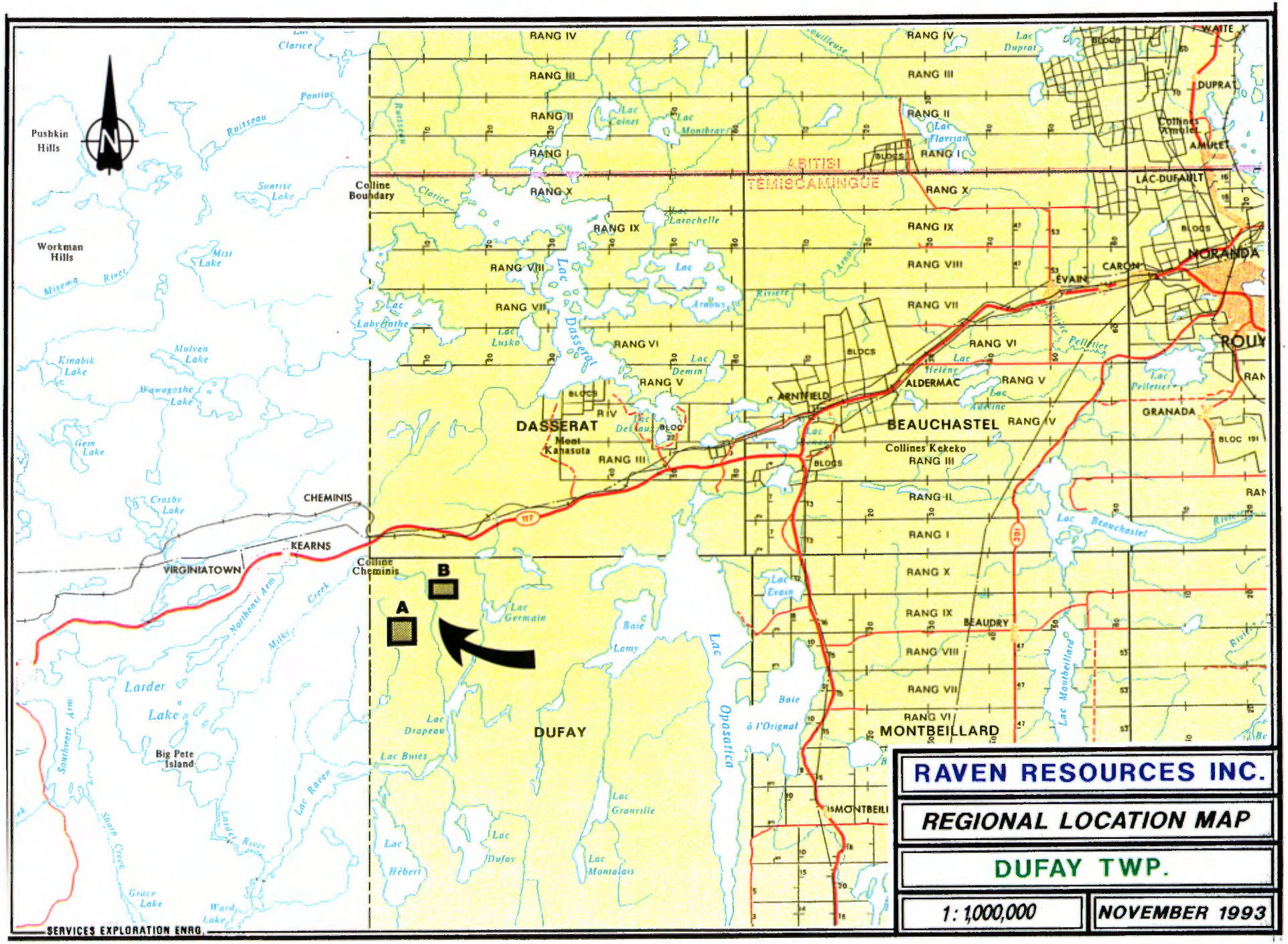
1:50,000

NOVEMBER 1993

SERVICES EXPLORATION ENRG.


RAVEN RESOURCES INC.
AEROMAGNETIC MAP
DUFAY TWP.
1:50,000
NOVEMBER 1993
CANTON DE DASSERAT
CANTON DE DUFAY
ONTARIO
QUEBEC
Lac Hert
Communication 250
Lac Biville
Lac Boissier
Lac Frédéric
Lac Germain
Lac Klock
Baie Klock
Baie Lamy
Lacs de la Frontière
Lac Kennedy
Lac Drapeau
Lac Durand
Lac Foudras
Municipalité d'Arnfield
Municipalité de Montbeillard
MRC DE ROUYN-NORANDA
SERVICES EXPLORATION ENRG.
A
B
R
X
IX
VIII
VII
VI


Communication 250
117
1150
1122
Eau Hers
Lac Biville
Lac Boissier
Municipalité d'Arntfield
Municipalité de Montbeillard
Baie Klock
Lac Prédric
Lac Germain
Île Ronde
Pointe de Roche
Baie Lamy
Baies aux Galets
Lac Foudras
Lac Durand
Lac Drapeau
Kenrad
Lakes
Île Post
Borne milliaire
1673
QUEBEC
ONTARIO
A
B
12
13
14
15
16
17
18
19
20
21
22
23
11
38
37
36
1000
900
1100
N
RAVEN RESOURCES INC.
TOPOGRAPHIC MAP
DUFAY TWP.
1:50,000
NOVEMBER 1993
SERVICES EXPLORATION ENRG.


RAVEN RESOURCES INC.
REGIONAL LOCATION MAP
DUFAY TWP.
1: 1,000,000
NOVEMBER 1993
SERVICES EXPLORATION ENRG.
A
B
DUFAY
DASSERAT
BEAUCHASTEL
MONTBEILLARD
NORANDA
ROUYN
CHEMINIS
KEARNS
VIRGINIATOWN
Colline Cheminis
Colline Boundary
Pushkin Hills
Workman Hills
Larder Lake
Big Pete Island
Lac Dasserat
Lac Opasatica
Lac Beauchastel
Lac Montbeillard
Lac Raven
Lac Dufay
Lac Germain
Lac Drapeau
Lac Buies
Lac Granville
Lac Montalais
Lac Hébert
Lac Evain
Baie Lamy
Baie à l'Original
Mont Kanasuta
Collines Kekeko
Collines Amulet
Lac Duprat
Lac Flavrian
Lac Coinet
Lac Montbrun
Lac Larochelle
Lac Labyrinthe
Lac Lusko
Lac Demin
Lac Arnoux
Lac Hélène
Lac Adeline
Lac Pelletier
Lac Clarice
Lac Pontiac
Lac Sunrise
Lac Mist
Lac Mulven
Lac Kinabik
Lac Wawagoshe
Lac Gem
Lac Crosby
Lac Grace
Lac Ward
Lac Sharp
Lac Larder
Lac Northeast Arm
Lac Southwest Arm
Lac Milky
Lac Larder River
Lac Misema River
Lac Ruisseau
Lac Pontiac
Lac Clarice
Lac Duprat
Lac Flavrian
Lac Coinet
Lac Montbrun
Lac Larochelle
Lac Labyrinthe
Lac Lusko
Lac Demin
Lac Arnoux
Lac Hélène
Lac Adeline
Lac Pelletier
Lac Beauchastel
Lac Montbeillard
Lac Evain
Lac Germain
Lac Drapeau
Lac Buies
Lac Granville
Lac Montalais
Lac Hébert
Lac Dufay
Lac Opasatica
Baie Lamy
Baie à l'Original
Lac Raven
Lac Larder
Lac Northeast Arm
Lac Southwest Arm
Lac Milky
Lac Larder River
Lac Misema River
Lac Ruisseau
Lac Pontiac
Lac Clarice
Lac Sunrise
Lac Mist
Lac Mulven
Lac Kinabik
Lac Wawagoshe
Lac Gem
Lac Crosby
Lac Grace
Lac Ward
Lac Sharp
Lac Larder
Lac Northeast Arm
Lac Southwest Arm
Lac Milky
Lac Larder River
Lac Misema River
Lac Ruisseau
Lac Pontiac
Lac Clarice
Lac Duprat
Lac Flavrian
Lac Coinet
Lac Montbrun
Lac Larochelle
Lac Labyrinthe
Lac Lusko
Lac Demin
Lac Arnoux
Lac Hélène
Lac Adeline
Lac Pelletier
Lac Beauchastel
Lac Montbeillard
Lac Evain
Lac Germain
Lac Drapeau
Lac Buies
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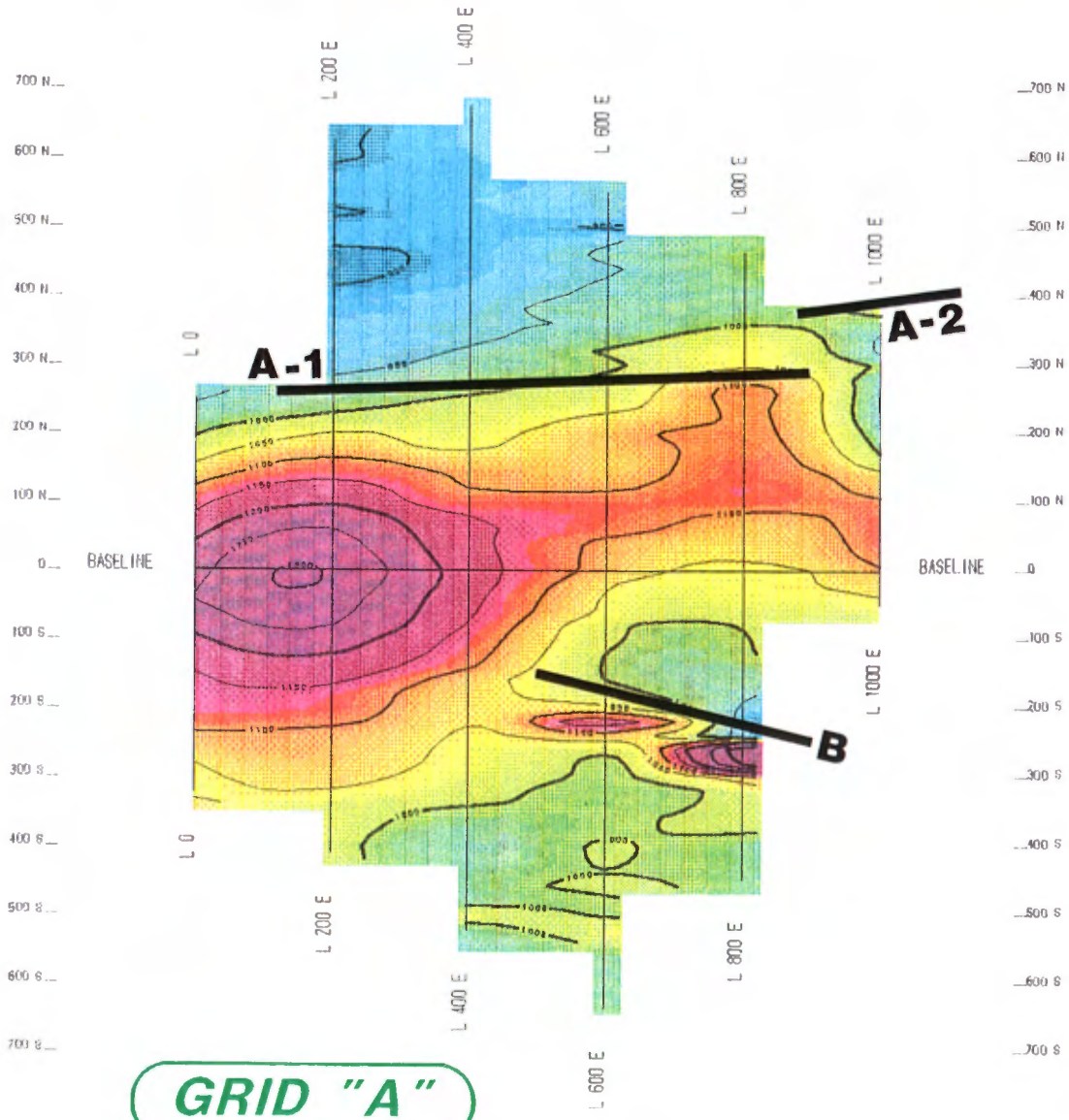
Lac Montalais
Lac Hébert
Lac Dufay
Lac Opasatica
Baie Lamy
Baie à l'Original
Lac Raven



GRID "A"

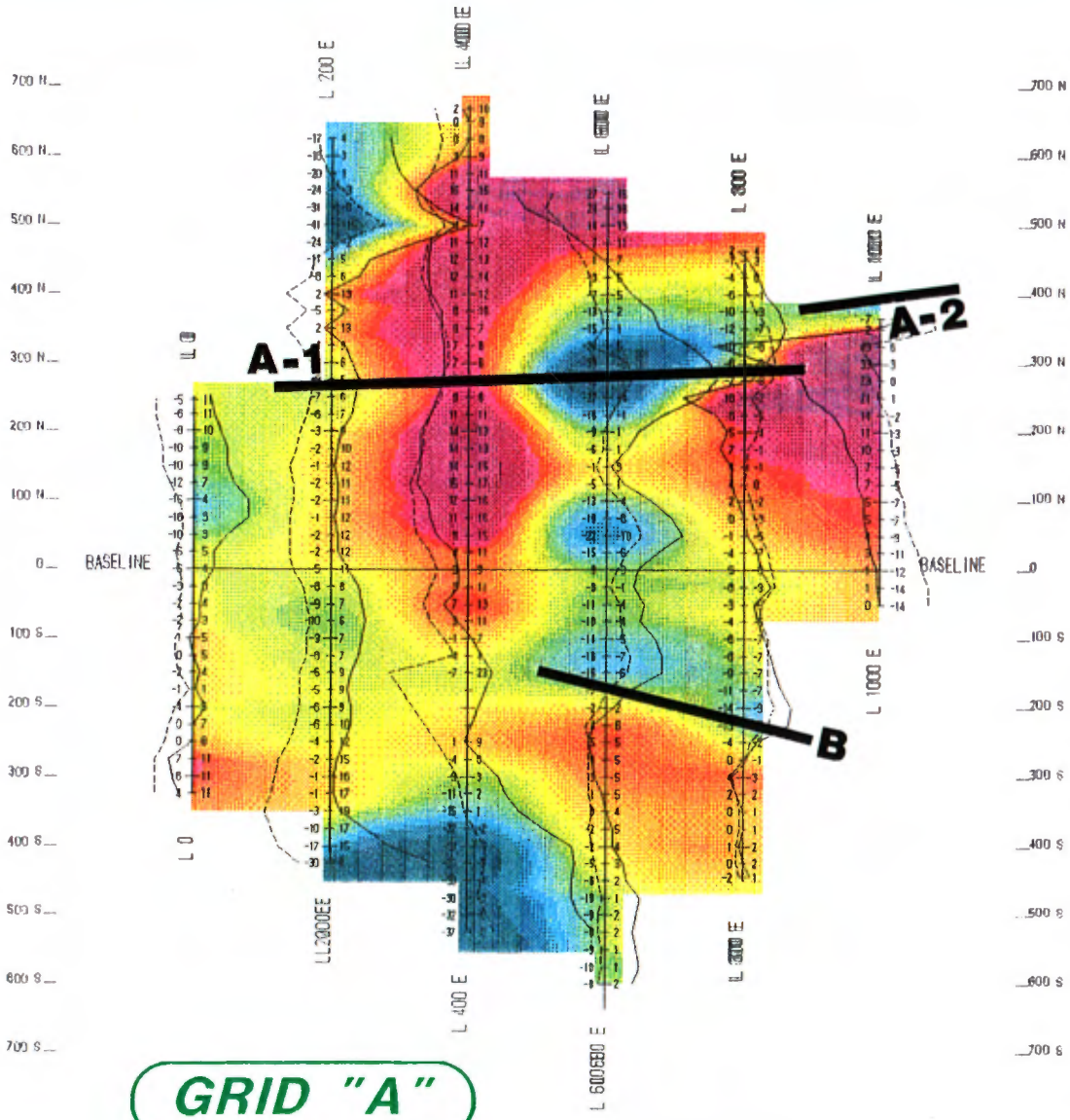
RAVEN RESOURCES INC.

MAGNETOMETER SURVEY

DUFAY TWP.

1:10,000	NOVEMBER 1993

SERVICES EXPLORATION ENRG.



GRID "A"

RAVEN RESOURCES INC.

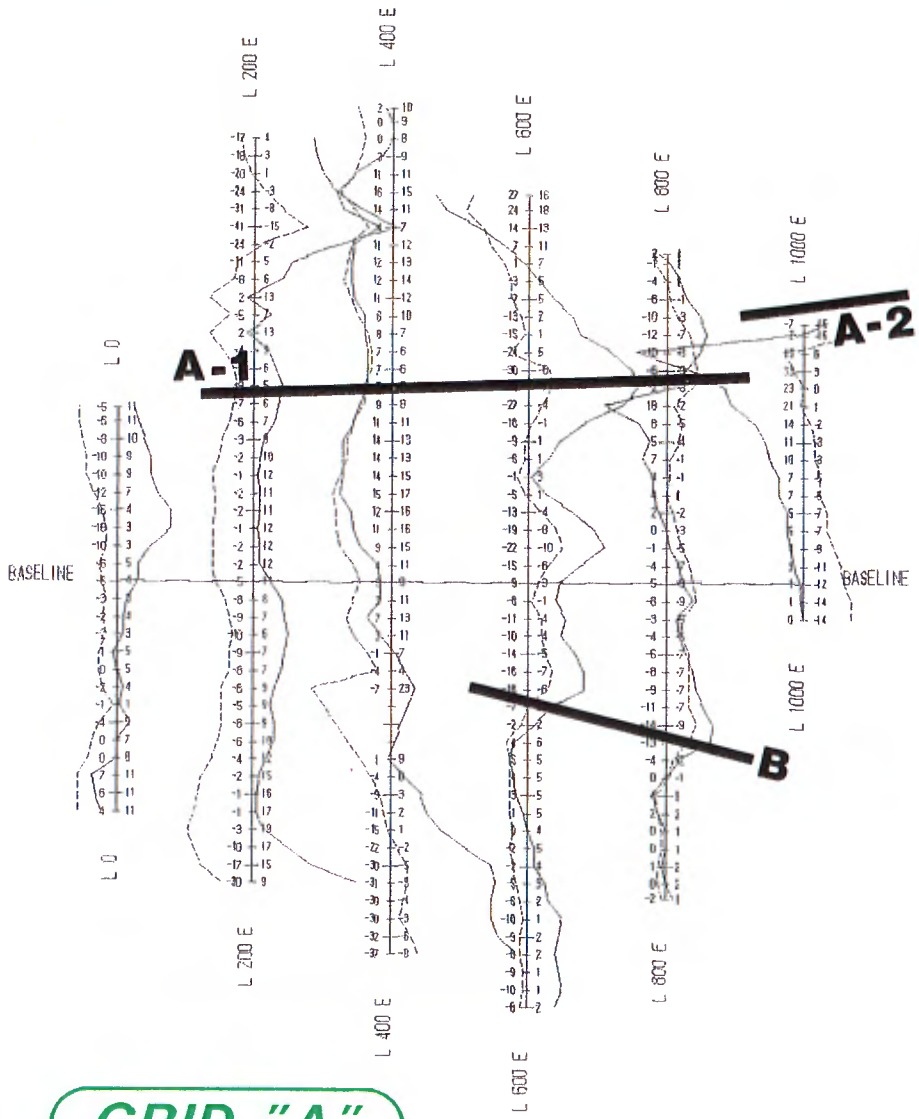
ELECTROMAGNETIC SURVEY

DUFAY TWP.

1:10,000

NOVEMBER 1993

SERVICES EXPLORATION ENRG



GRID "A"

RAVEN RESOURCES INC.

ELECTROMAGNETIC SURVEY

DUFAY TWP.

1:10,000

NOVEMBER 1993

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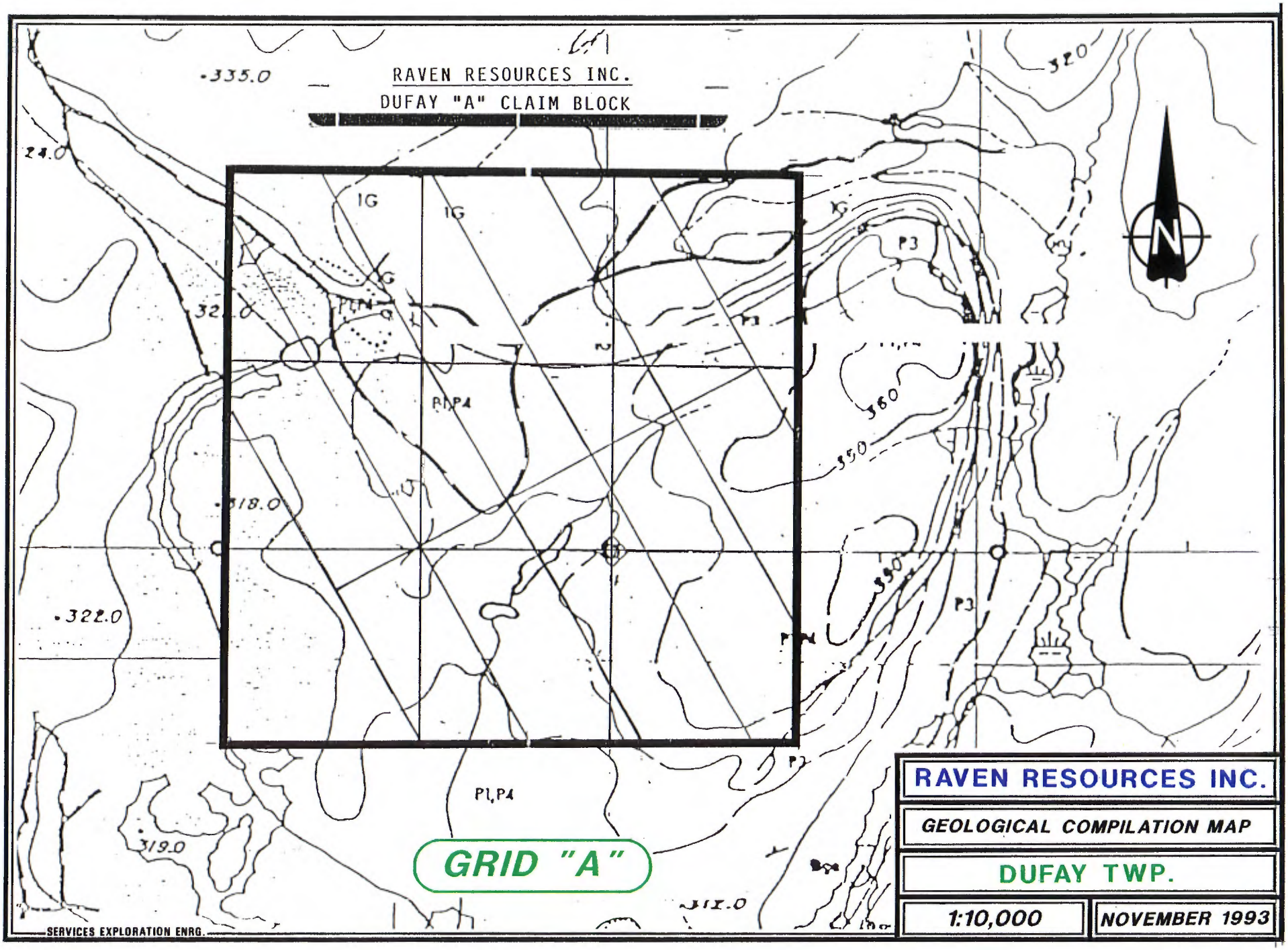
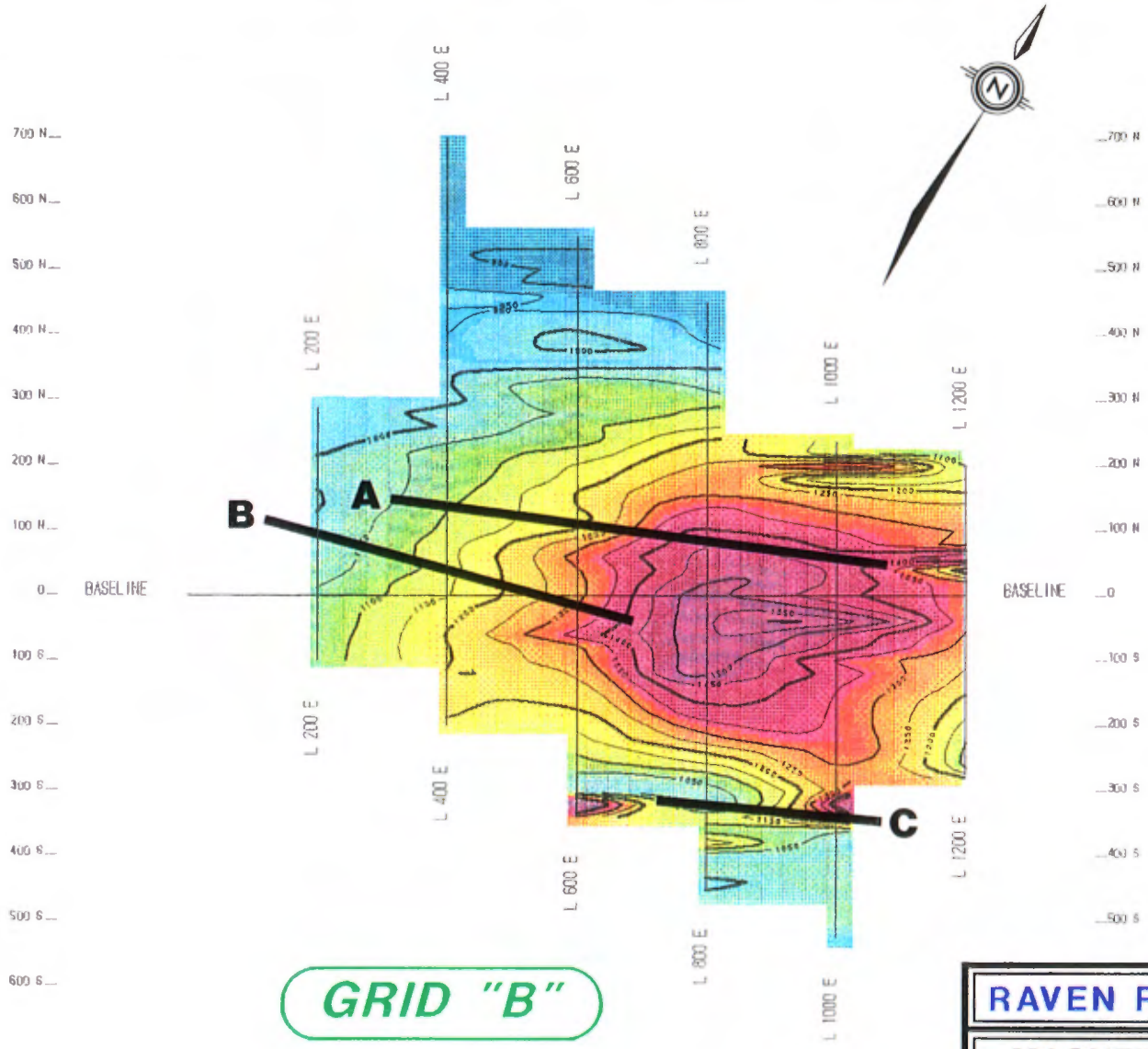

RAVEN RESOURCES INC.
DUFAY "A" CLAIM BLOCK
335.0
320
24.0
IG
IG
P3
P1,P4
360
350
318.0
322.0
P1,P4
319.0
312.0
GRID "A"
N
RAVEN RESOURCES INC.
GEOLOGICAL COMPILATION MAP
DUFAY TWP.
1:10,000
NOVEMBER 1993
SERVICES EXPLORATION ENRG.



RAVEN RESOURCES INC.

MAGNETOMETER SURVEY

DUFAY TWP.

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NOVEMBER 1993

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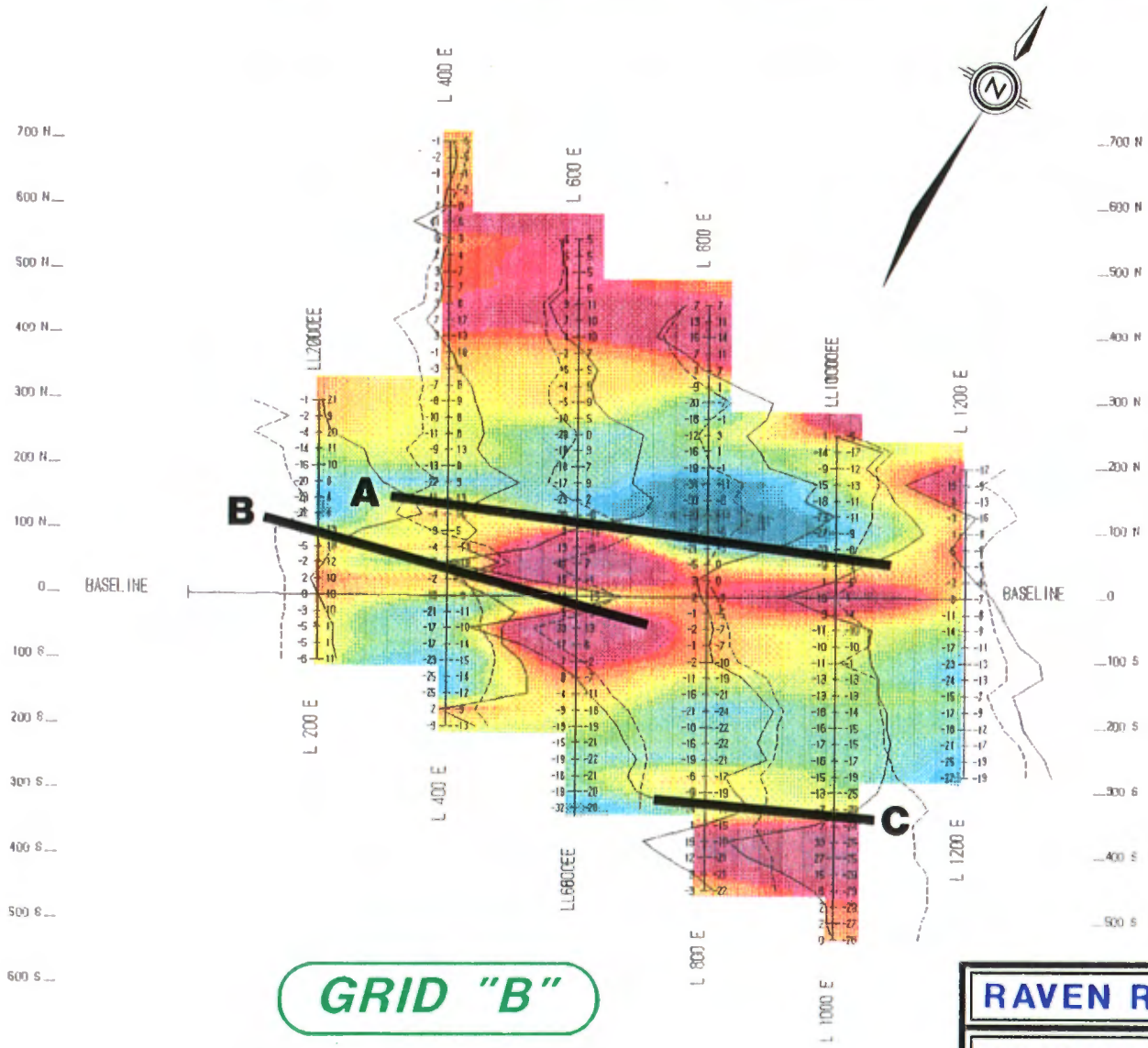

RAVEN RESOURCES INC.

ELECTROMAGNETIC SURVEY

DUFAY TWP.

1:10,000	NOVEMBER 1993

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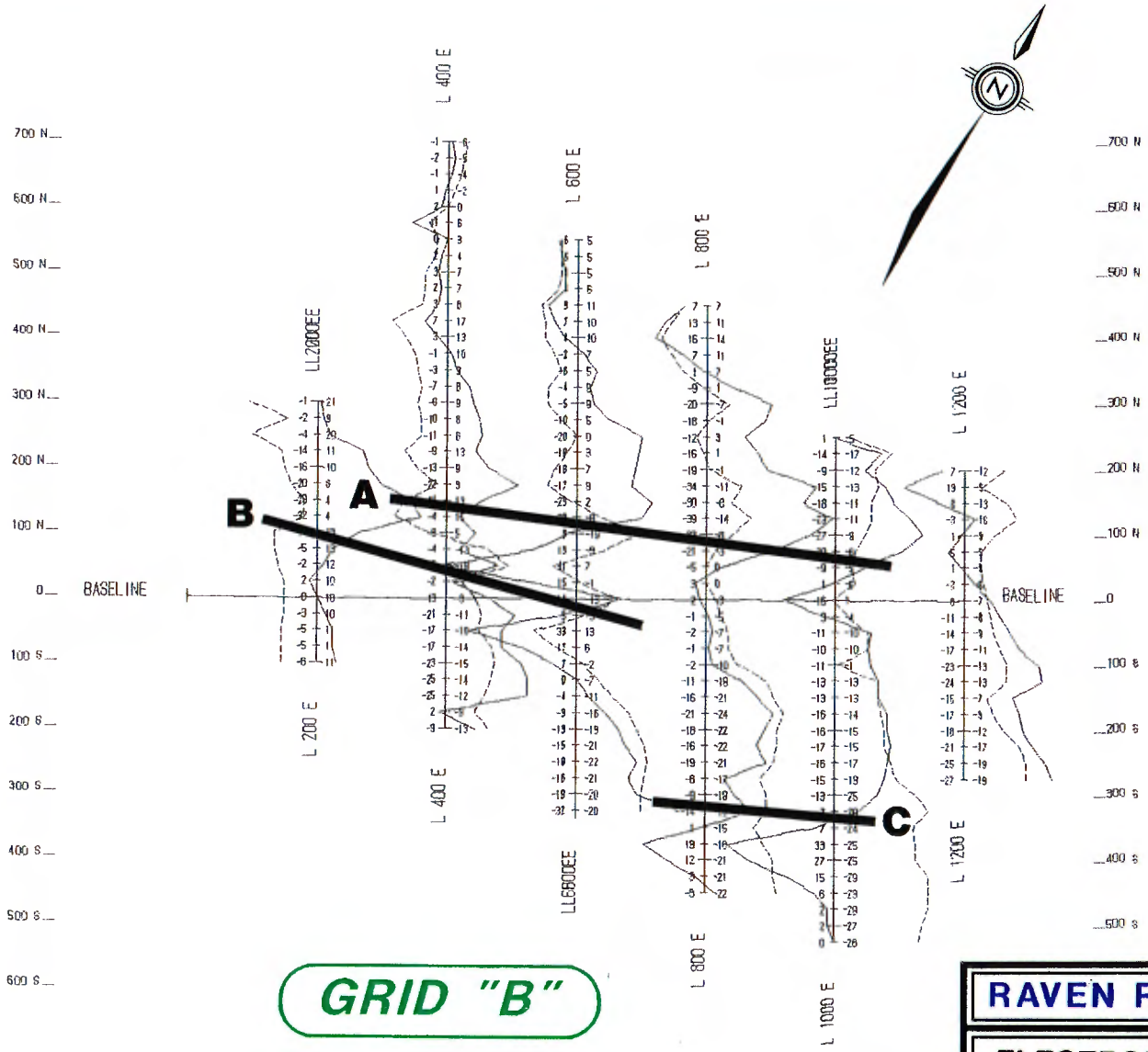

RAVEN RESOURCES INC.

ELECTROMAGNETIC SURVEY

DUFAY TWP.

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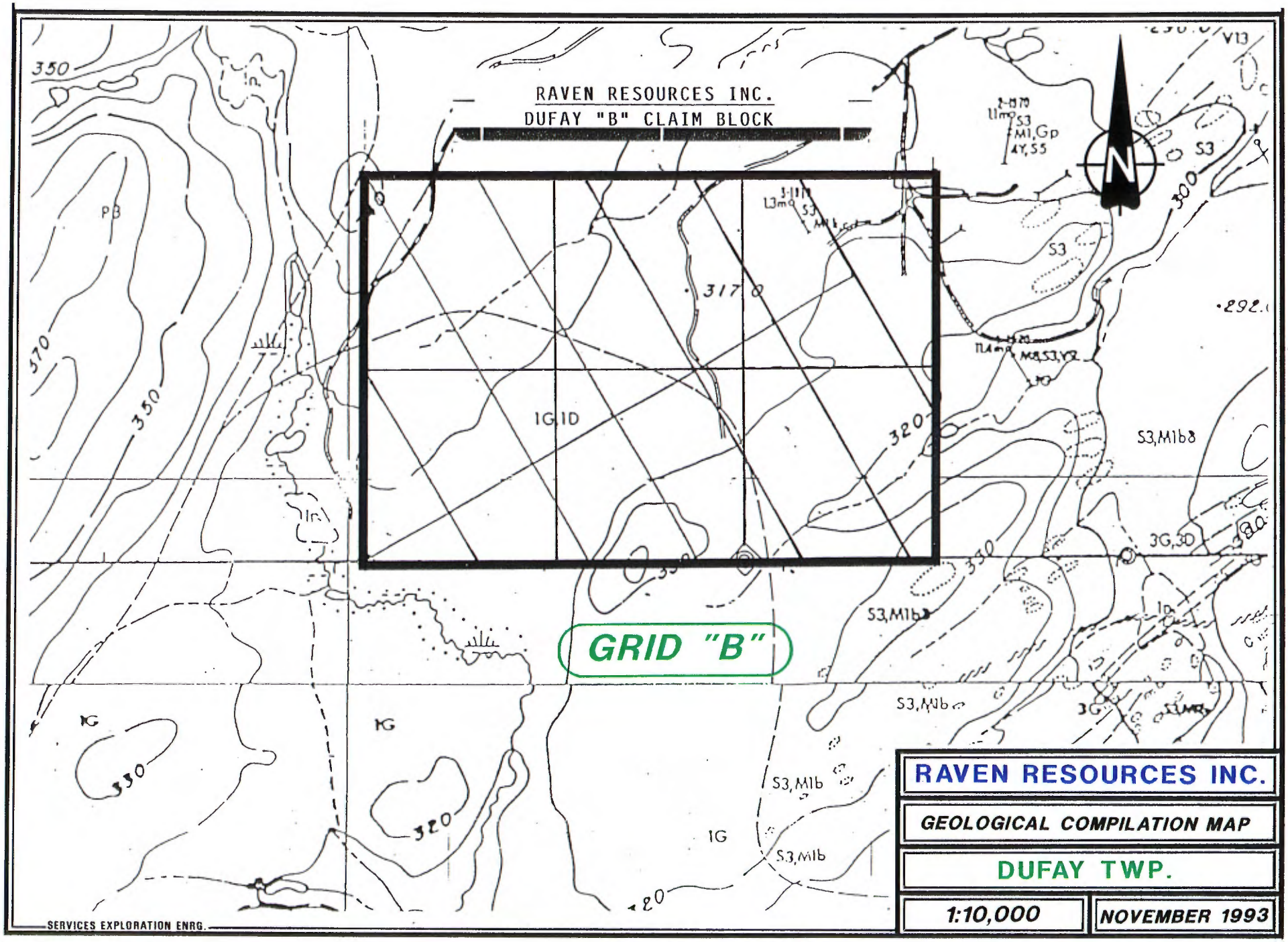
SERVICES EXPLORATION ENRG.


RAVEN RESOURCES INC.
DUFAY "B" CLAIM BLOCK
GRID "B"
N
350
370
350
317
320
330
320
330
330
320
300
S3
S3,M1b8
3G,3D
S3,M1b
S3,M1b
S3,M1b
S3,M1b
1G,1D
1G
1G
1G
PB
V13
RAVEN RESOURCES INC.
GEOLOGICAL COMPILATION MAP
DUFAY TWP.
1:10,000
NOVEMBER 1993
SERVICES EXPLORATION ENRG.