



APPENDIX "B"

AIRBORNE MAGNETIC SURVEYINTRODUCTION

An airborne magnetic survey was flown for Umex by Questor Surveys Ltd. on March 3, 4 and 8, 1976 over an area NW of Savant Lake, located in the Patricia Mining Division, Ontario. The technical information and survey specifications given below have been abstracted from information which was supplied by Questor Surveys Ltd.

AREA SURVEYED

The survey area is located NW of Savant Lake as shown on the appended location map. The area is entirely within NTS map 52J, Sioux Lookout. A total of 787 line miles were flown.

EQUIPMENT AND FLIGHT SPECIFICATIONS

The instruments used for the magnetic survey were: a Geometrics G-803 proton precession magnetometer with a sensitivity of 1 gamma, and measuring the field once every 1.3 seconds, radar altimeters for control of ground clearance at 400 feet. The magnetic field and the altitude was recorded together with fiducial timing marks by means of galvanometer type recorders on light sensitive paper. 35 mm continuous strip cameras were used to record the actual flight path for positioning of the data. A flight line spacing of 1/8 mile was used. The data was also recorded digitally.

The survey aircraft was a Britten-Norman Trislander, with registration C-GOXZ. The aircraft terrain clearance was nominally 400 feet.

Two flight directions were utilized with partial overlap, one NNW-SSE, the other ENE-WSW. The flight line directions are shown on the location map.

SURVEY PROCEDURES

The flight-lines were nominally 1/8 mile apart, flown in alternate directions with a design terrain clearance of 400 feet. The navigation was carried out from lines laid out on a photo-mosaic of the area. The uncontrolled mosaics for the base maps were constructed from Ontario Department of Natural Resources, Lands and Forests Division, photographs at a scale of 1 inch = 1320 feet approximately. The survey was monitored from the analogue records and instrument read-outs, fiducial numbers were

noted at the beginning and end of each flight-line. The intervalometer simultaneously and automatically marked the analogue record, the digital recording, and the flight path recording 35 mm film.

Two magnetic tie-lines were flown, one across each of the flight directions, to make it possible to correct for diurnal variations and correlate the data from flight to flight.

DATA REDUCTION AND PLOTTING

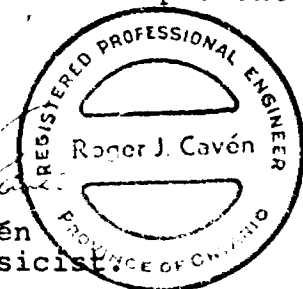
The data was taken from the digital recording, checked against the analogue records, and corrected for diurnal and interflight variations as well as for the time constant introduced in the recording chain. The plotting was done by computer on a Gerber flat-bed plotter. The data reduction and plotting was performed by Data plotting Services Ltd., 160 Duncan Mill Road, Don Mills.

The final contoured maps were computer plotted on a photo-mosaic base of the survey area at a scale of 1 inch approximately equals 1320 feet. The minimum contour interval is 25 gammas, with wider contour intervals in high gradient areas to prevent blocking.

September 29, 1976

RJC/tn


Roger J. Cavén
Chief Geophysicist



Qualifications 2.1049

APPENDIX "A"

RECEIVED

OCT 8 1976

BENNER TWP. M 1651

PROJECTS UNIT

<u>Claim No.</u>	<u>Date Staked</u>	<u>Date Recorded</u>	<u>Claim No.</u>	<u>Date Staked</u>	<u>Date Recorded</u>
Pa457390	30/5/76	21/6/76	Pa457395	31/5/76	21/6/76
457391	"	"	457396	"	"
457392	"	"	457397	"	"
457393	"	"	457398	"	"
457394	"	"			

BENNER TWP. M1651 & SOLITUDE LAKE M2054 TOGETHER

<u>Claim No.</u>	<u>Date Staked</u>	<u>Date Recorded</u>	<u>Claim No.</u>	<u>Date Staked</u>	<u>Date Recorded</u>
Pa457399	31/5/76	21/6/76	Pa457401	01/6/76	21/6/76
457400	01/6/76	"			

SOLITUDE LAKE M2054

<u>Claim No.</u>	<u>Date Staked</u>	<u>Date Recorded</u>	<u>Claim No.</u>	<u>Date Staked</u>	<u>Date Recorded</u>
Pa457402	02/6/76	21/6/76	Pa457468	31/5/76	21/6/76
457403	"	"	457469	"	"
457404	"	"	457470	"	"
457405	"	"	457471	"	"
457406	"	"	457472	01/6/76	"
457407	"	"	457473	"	"
457447	27/5/76	"	457474	"	"
457448	"	"	457475	"	"
457449	"	"	457476	"	"
457450	"	"	457517	27/05/76	"
457451	"	"	457518	"	"
457452	28/5/76	"	457519	"	"
457453	"	"	457520	"	"
457454	"	"	457521	"	"
457455	"	"	457522	28/5/76	"
457456	"	"	457523	"	"
457457	29/5/76	"	457524	"	"
457458	"	"	457525	"	"
457459	"	"	457526	29/5/76	"
457460	"	"	457527	"	"
457461	"	"	457528	"	"
457462	30/5/76	"	457529	"	"
457463	"	"	457530	"	"
457464	"	"	457531	03/6/76	"
457465	"	"	457532	"	"
457466	"	"	457533	"	"
457467	31/5/76	"	457534	"	"

APPENDIX "A"

SOLITUDE LAKE M2054

Claim No.	Date Staked	Date Recorded	Claim No.	Date Staked	Date Recorded
Pa457535	03/6/76	21/6/76	Pa457379	27/5/76	15/7/76
457536	04/6/76	"	457380	"	"
457537	"	"	457381	"	"
457538	"	"	457382	28/5/76	"
457539	"	"	457383	"	"
457540	30/5/76	"	457384	28/5/76	"
457541	"	"	457385	"	"
457542	"	"	457386	"	"
457543	"	"	457387	29/5/76	"
457544	"	"	457388	"	"
457377	27/5/76	15/7/76	457389	"	"
457378	"	"			

SOLITUDE LAKE M2054 AND McCUBBIN TWP. M1804 TOGETHER

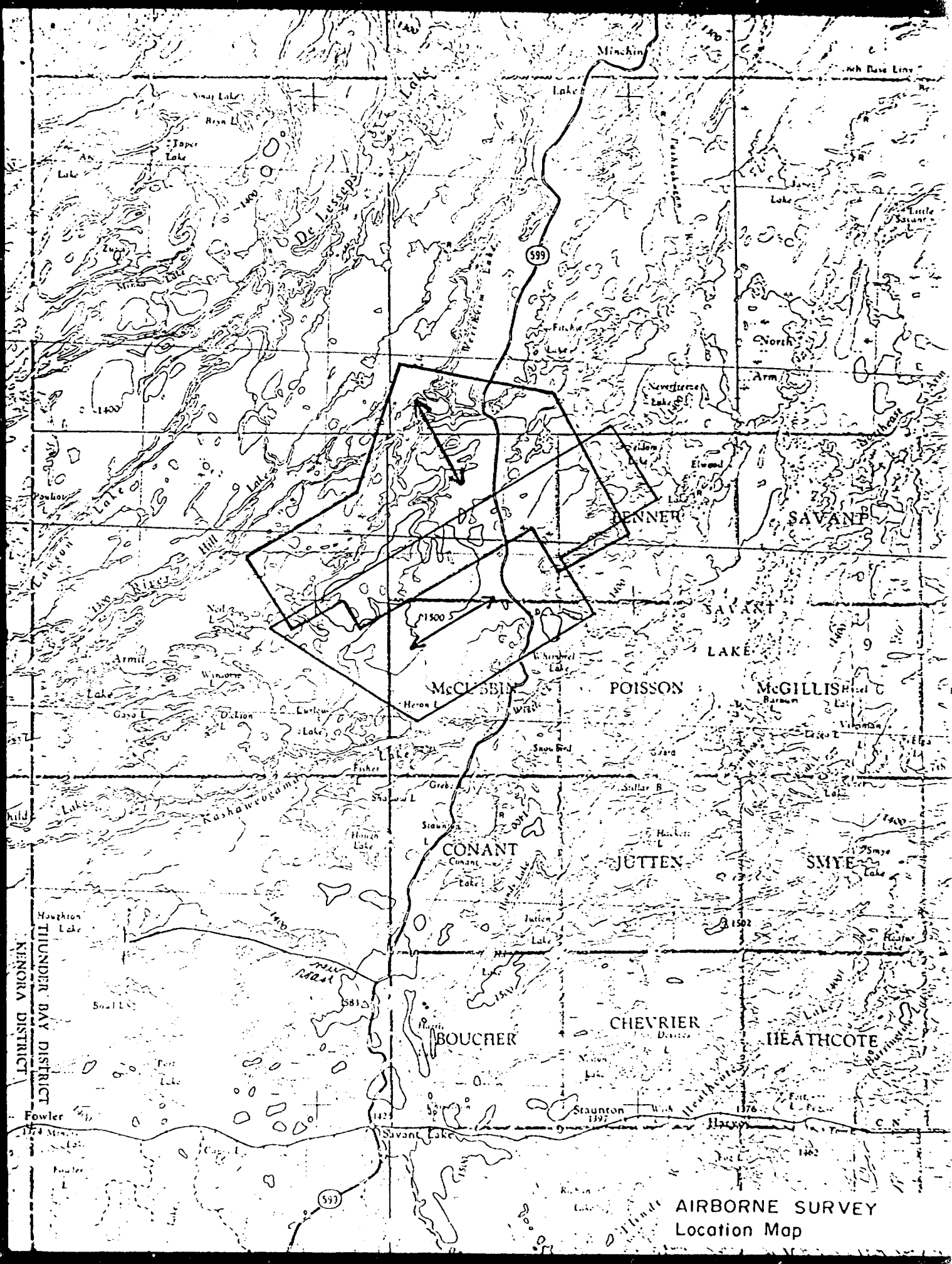
Claim No.	Date Staked	Date Recorded	Claim No.	Date Staked	Date Recorded
Pa457545	31/5/76	21/6/76	Pa457548	31/5/76	21/6/76
457546	"	"	457549	"	"
457547	"	"			

GREBE LAKE AND McCUBBIN TWP. M1804

Claim No.	Date Staked	Date Recorded	Claim No.	Date Staked	Date Recorded
Pa457500	07/6/76	21/6/76	Pa457551	01/6/76	21/6/76
457501	"	"	457552	"	"
457502	"	"	457553	"	"
457503	"	"	457554	02/6/76	"
457504	"	"	457555	"	"
457505	08/6/76	"	457556	"	"
457506	"	"	457557	"	"
457507	"	"	457558	05/6/76	"
457508	"	"	457559	"	"
457509	"	"	457560	"	"
457510	"	"	457561	"	"
457511	09/6/76	"	457562	"	"
457512	"	"	457563	06/6/76	"
457513	"	"	457564	"	"
457514	"	"	457565	"	"
457515	"	"	457566	"	"
457516	"	"	457567	"	"
457550	01/6/76	"	457568	07/6/76	"

APPENDIX "A"

<u>Claim No.</u>	<u>Date Staked</u>	<u>Date Recorded</u>	<u>Claim No.</u>	<u>Date Staked</u>	<u>Date Recorded</u>
Pa457569	07/6/76	21/6/76	Pa457573	08/6/76	21/6/76
457570	"	"	457574	"	"
457571	"	"	457575	"	"
457572	"	"	457576	"	"



AIRBORNE SURVEY
Location Map



ONTARIO

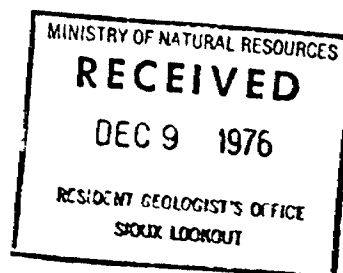
Ministry
of Natural
Resources

Airborne Geophysical Certificate

To the Mining Recorder at Sioux Lookout:-

This is to certify that Union Miniere Explorations and Mining Corporation Limited, has met the requirements of Section 87 of The Mining Act with respect to the following 138 mining claims in Benner and McCubbin Townships and Grebe Lake, Hill Lake and Solitude Lake Areas:

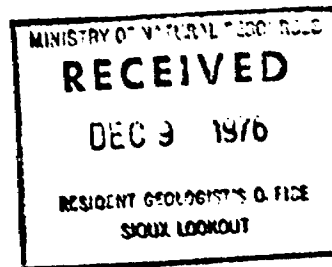
Pa. 457377 to 457407 inclusive
457447 to 457476 inclusive
457500 to 457576 inclusive



CAF



Ministry of
Natural
Resources



December 8, 1976

Our file number 2.2219

Your file number _____

Union Miniere Explorations and
Mining Corporation Limited
1935 Leslie Street
Don Mills, (Toronto), Ontario,
M3B 2M3

Attention: Mr. P. Potapoff

Gentlemen:

(Magnetometer Survey)

Enclosed is an Airborne Geophysical Certificate issued under
Section 87 of The Ontario Mining Act.

If you file this certificate with the recorder of the mining
division in which the claims are situate (Sioux Lookout) not
later than 60 days after the date of issue of the certificate,
the recorder will indicate on his records that the time for
performing the first and all subsequent periods of work for
the claims listed shall fall due one year later than the times
prescribed in subsection 1 of Section 85.

Yours very truly,

J. R. McGinn, Director
Lands Administration Branch

Whitney Block, Room 1617
Queen's Park
Toronto, Ontario
M7A 1X1
Phone: 416-965-6918

OJ/mw

cc: Mr. Harry L. Bell
Mining Recorder
Sioux Lookout, Ontario

cc: Resident Geologist
Sioux Lookout, Ontario

2219

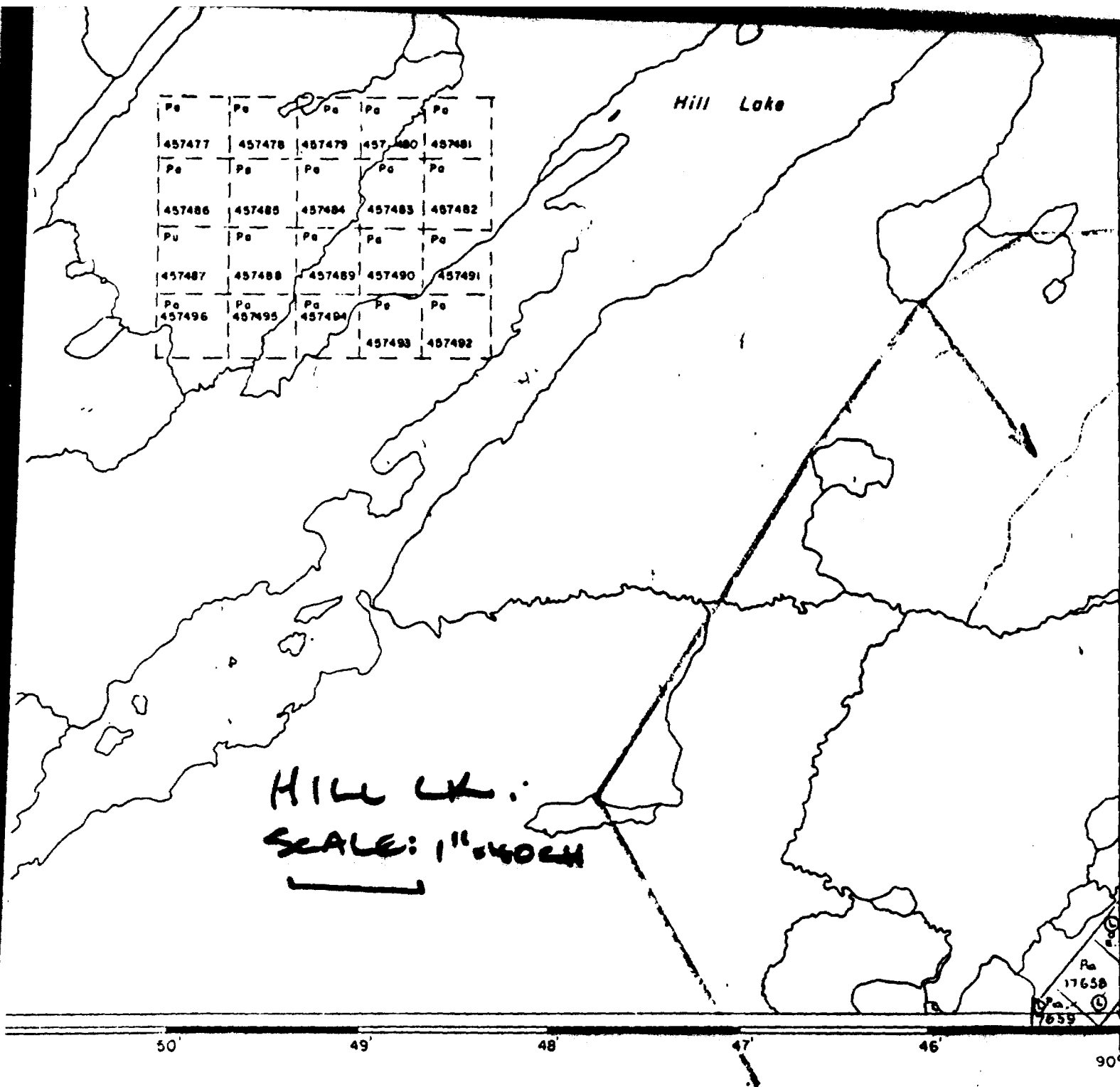
to success was put in area.

Dates of Flight - March 3, 4 and 8/1976

Mining Claims (Staked) - May 27/1976 to June 9/1976
(Recorded) - June 21/1976 to July 15/1976

Received in Projects Unit - October 8th, 1976

Six months period from recording of mining
claims - December 22/1976



Hill Lake

Pe 457477	Pe 457478	Pe 457479	Pe 457480	Pe 457481
Pe 457486	Pe 457485	Pe 457484	Pe 457483	Pe 457482
Pu 457487	Pe 457488	Pe 457489	Pe 457490	Pe 457491
Pe 457496	Pe 457495	Pe 457494	Pe 457493	Pe 457492

HILL LK.
SCALE: 1"=400M



SOLITU

33'

32'

31'

50'

49'

48'

47'

46'

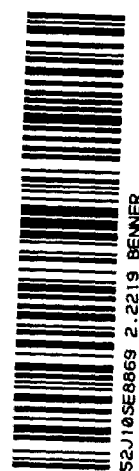
90°45'

50°30'

Pe 17657

Pe 17658

Pe 17659



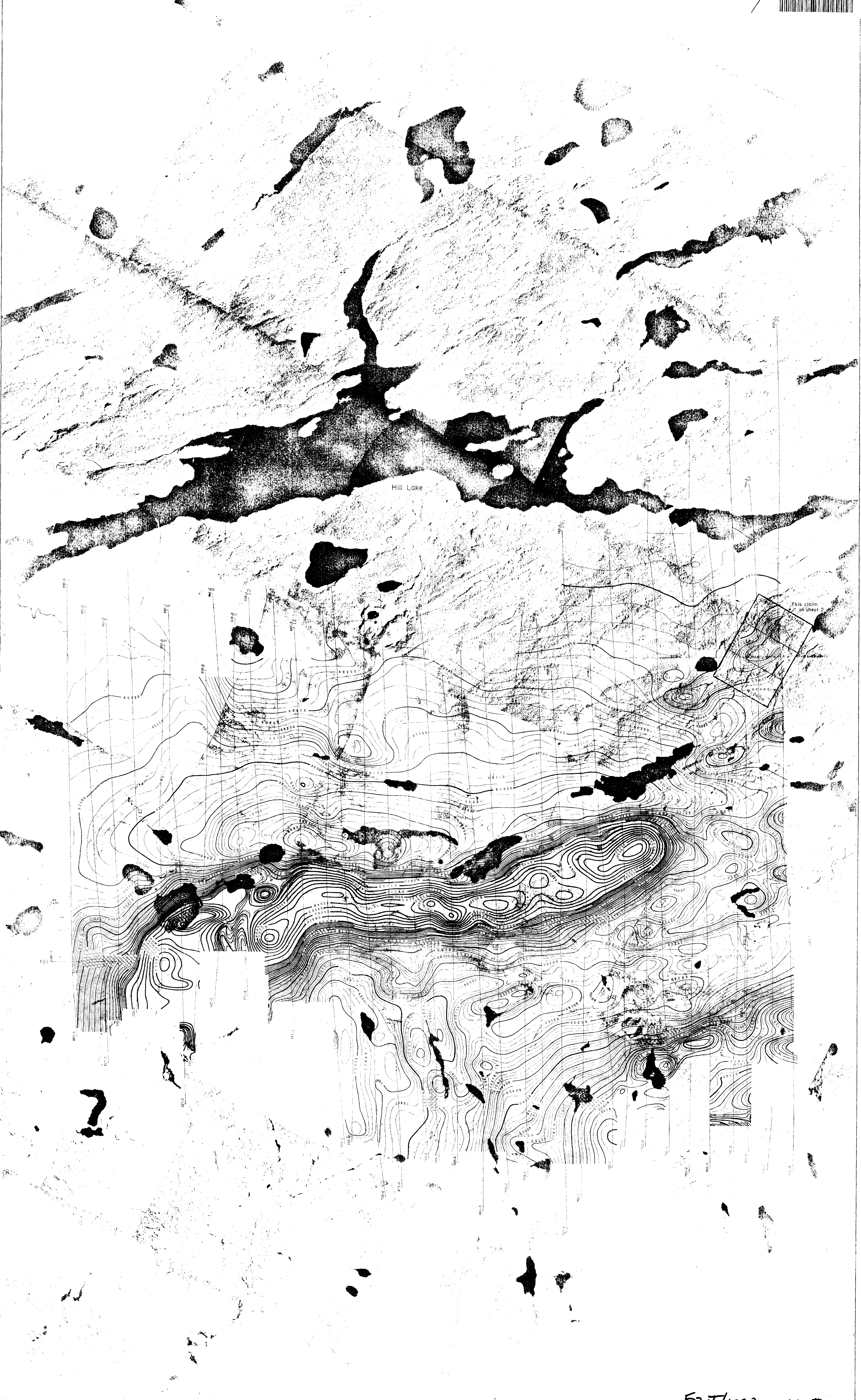
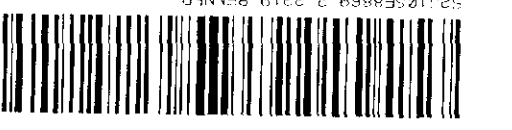
900



FOR ADDITIONAL
INFORMATION

SEE MAPS:

52J/10SW-0010 #1-#3



Hill Lake

This claim on sheet 2

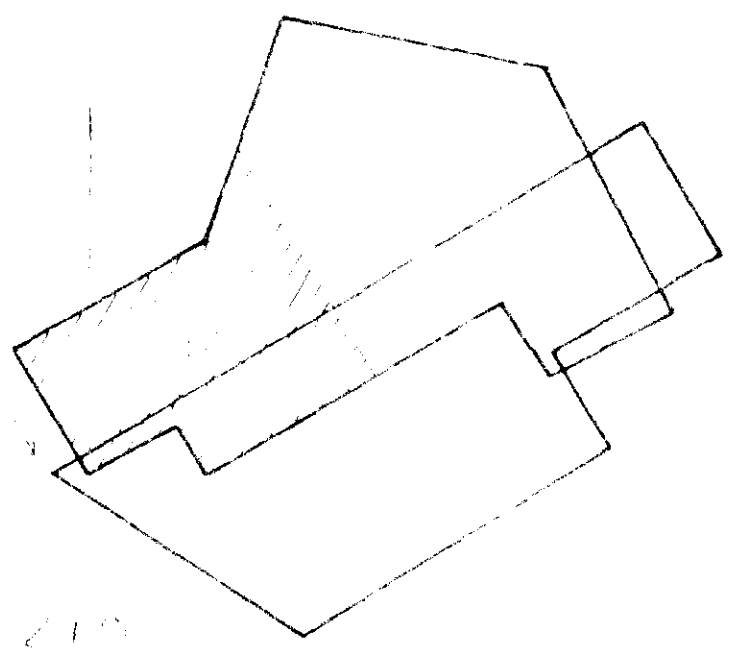
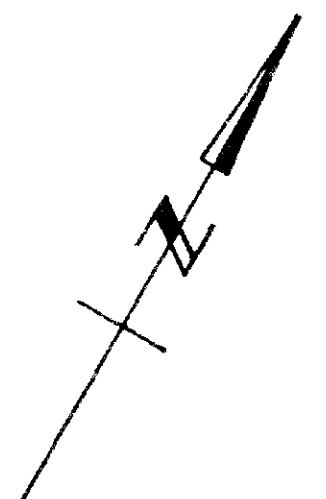
52T/105W-0010-#

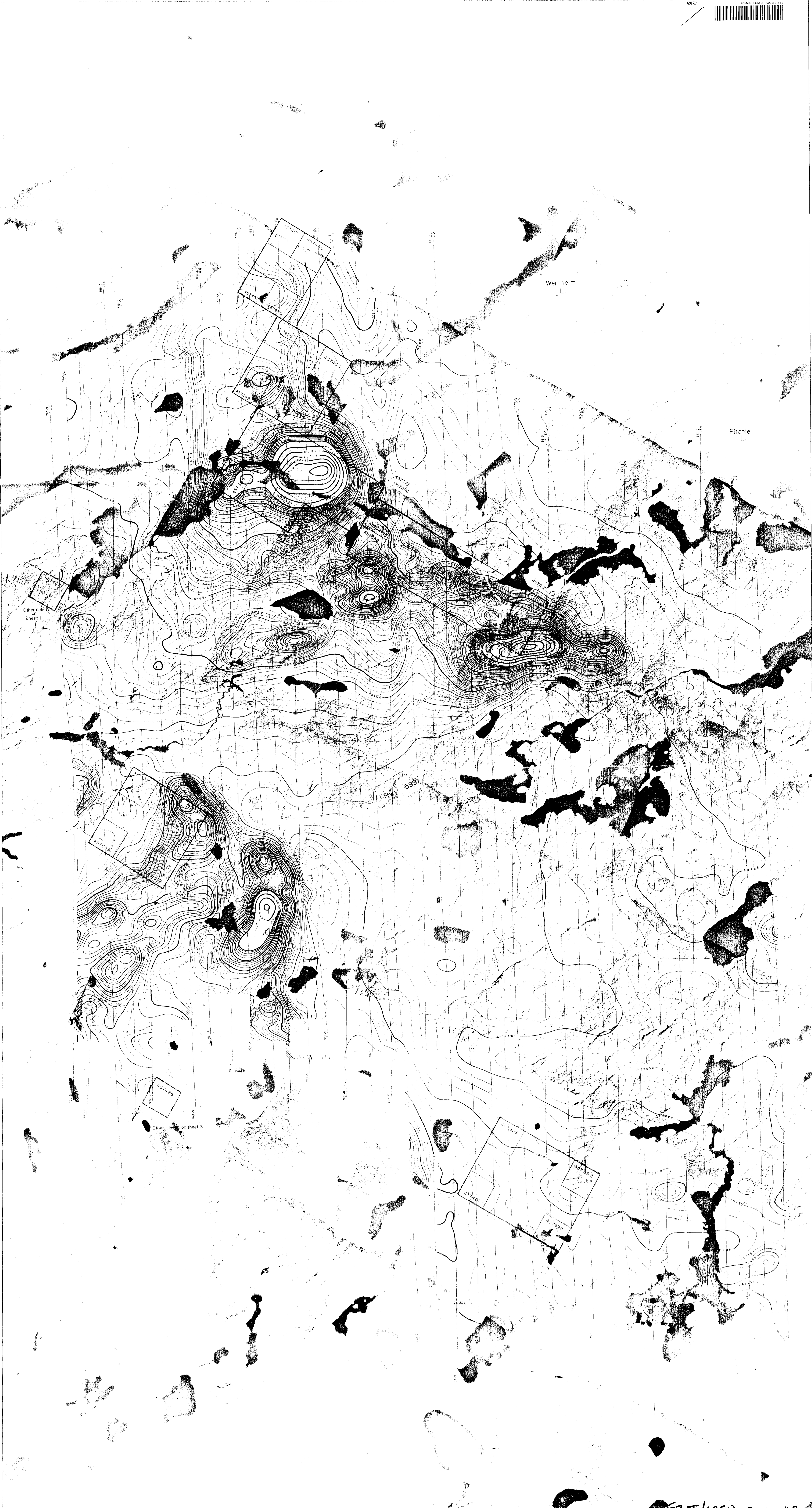
PLATE I

Union Minière Explorations & Mining Corp Ltd
AIRBORNE MAGNETIC SURVEY
SABIN PROJECT, SAVANT LAKE AREA, ONT.

Scale: 1:50,000
Magnetic Intensity: 1000 Gamma

Plotted by: [unclear] Ltd
Data supplied by: Data Plotting Services Ltd, Don Mills, Ont.





525/105W-0010-42

PLATE 2

Union Minière Explorations & Mining Corp Ltd

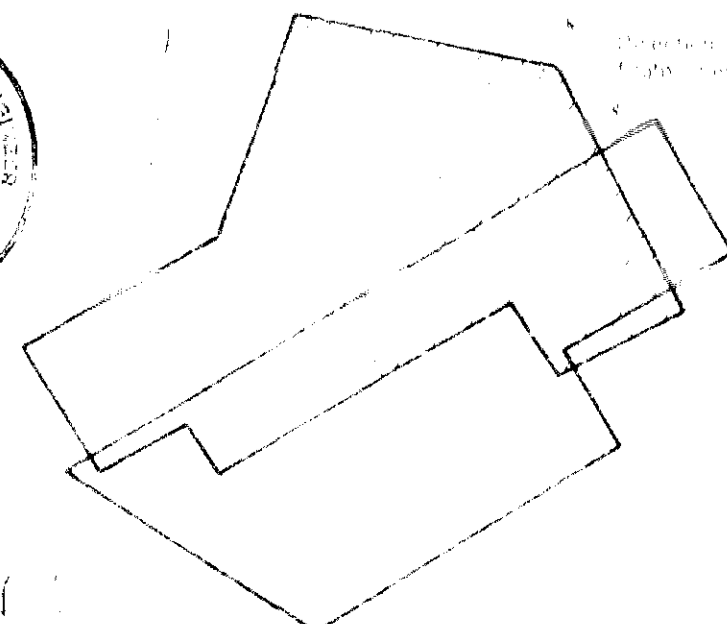
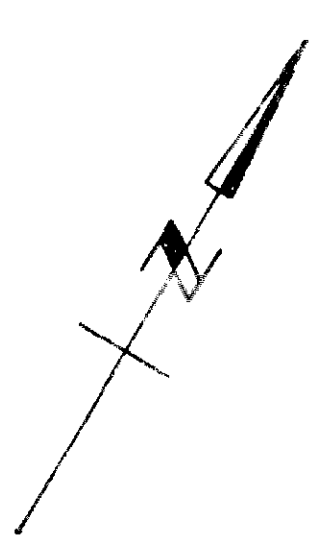
AIRBORNE MAGNETIC SURVEY

GABIN PROJECT, SAVANI LAKE AREA, ONT.

Geometrics G-103 Proton I Resonance Magnetometer
Kudat Altimeter

Scale 1:50,000 feet to inch

Flown by Questor Surveys Ltd.
Data compiled by Data Plotting Services Ltd., Dan Mills, Ont.



Neverfreeze

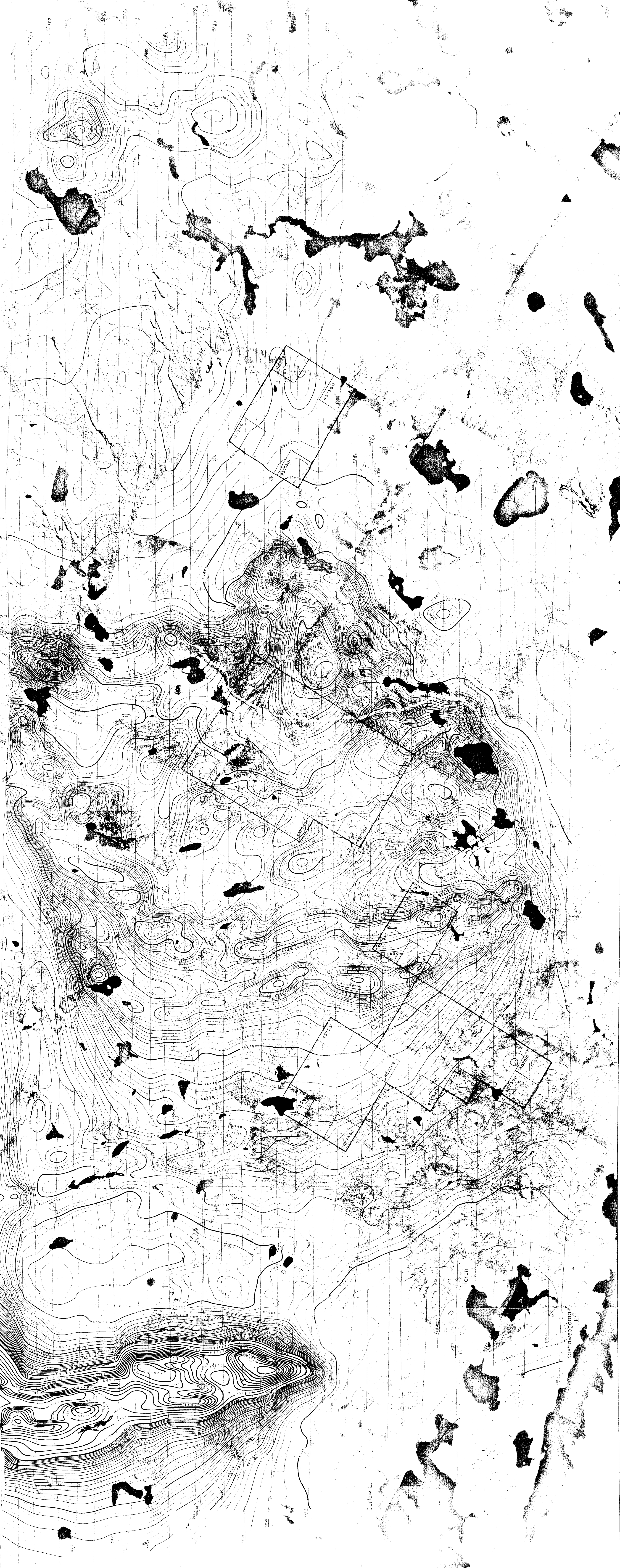
Sedcm L

Elwood

Heron L

Surnew L

Wawogama L



52-T/103W-0010-#3

PLATE 3

Union Minière Explorations & Mining Corp Ltd
 AIRBORNE MAGNETIC SURVEY
 SABIN PROJECT, SMANTY LAKE AREA, ONT.
 CONTRACT 3-828 (1960) - Process of Magnetometry
 4837 Avenue
 1st Floor
 Ottawa, Ontario
 Canada
 Printed by: [unclear]
 Made by: [unclear]
 Date: [unclear]

