



42B01SE0053 2.4890 HORWOOD

010

REPORT ON  
GROUND VLF AND GROUND MAGNETICS

PINECONE POINT  
FOLEYET, ONTARIO

BY  
JOSE LUIS SEARA

GOLD FIELDS MINING CORPORATION  
MISSISSAUGA, ONTARIO.

**RECEIVED**

JUN 25 1982

**MINING LANDS SECTION**

REPORT ON  
GROUND VLF AND GROUND MAGNETICS

Pinecone Point  
Foleyet, Ontario

By  
Jose Luis Seara

1. INTRODUCTION:

In March 1982 line cutting and ground geophysics were carried out by Gold Fields Canadian Mining Ltd. A total of 39.16 km of grid were cut and chained. Geophysical follow up consisted of 32.7 km of ground VLF data acquired on 24 lines, with station intervals of 25 m. Ground magnetics consisted of 39.16 km of magnetics data required on 24 lines at a station interval of 25m.

2. SURVEY LOCATION:

The survey location is located in the Foleyet region (Northeastern Ontario), about 60 miles from Timmins on Highway 101. Palimar Road is located 21 km from Foleyet, 300 m from Highway 101 on Palimar Road is Horwood Dam Road (left turn). Horwood Lake is approx. 20 km from this point. Pinecone Point grid is 18 km south on Horwood Lake.

3. DESCRIPTION OF GRID:

Main base line 0+00 was turned of Azimuth of 121 degrees from the Number 4 post of claim KRL 597722. Lines were turned off every 125 meters and chained at 25 m. station intervals.

4. GEOLOGY:

The Pinecone Point property is underlain by a NE-SW trending sequence of mafic volcanics. Two parallel shear zones trend NW-SE across the property. Dikes of feldspar porphyry and a system of quartz-ankerite veins intrude the shear zones.

## 5. TOPOGRAPHY:

Gently rolling forested area 1/5 of eastern side of grid is on Horwood Lake.

## 6. SURVEY PERSONNEL:

Magnetics: Phil Hembruff Dave Glidden

VLF: Gayle Fox Bryan Strapp

## 7. EQUIPMENT:

## 7.1 Ground VLF:

The equipment used during the survey was the Phoenix VLF-2. This receiver measures the orientation and magnitude of the major and minor axis of the ellipse of polarization, by means of the parameter dip angle (in degrees) and resultant field strength, RFS (in percent).

## 7.2 Ground Magnetics:

The measurement of earth's total field were taken with the EDA total field magnetometer Model PPM-300 providing a 0.1nT sensitivity. Diurnal change was monitored by a total field base station EDA Model PPM-400.

## 8. METHOD AND PROCEDURE:

## 8.1 Ground VLF:

The VLF method uses powerful radio transmitters that induce electric currents in conductive bodies. The direction of the flux of lines is horizontal and perpendicular to the VLF transmitter.

The Cutler, Maine station (NAA, 17.8 KHz) was selected.

Dip-angle and field strength readings were taken every 25 meters, making a total of 1255 readings.

## 8.2 Ground Magnetics:

Measurement of the total field were taken every 25 meters. All magnetometers used in the survey are programmable, automatically recording field readings, time of readings, line and station co-ordinates, a qualitative measurement of the gradient imposed on the sensor and signal strength or orientation of the sensor. Thus, the diurnal corrections are accomplished automatically by cable connecting each field unit in turn to the base station recorder and activating a pre-programmed correction program.

The base station recorder will interpolate and apply the diurnal correction, subtract the reference field and pass the survey data to a DCU-400 printer.

Base Station was located on O+70N at 6+15E. Base station interval was 20 seconds, with a value of 59,488 gammas. (A total of 1573 field stations were recorded).

## 9. DATA PRESENTATION:

### 9.1 Ground Magnetics:

Total field is presented on maps MAG-1 and MAG-2. (Scale 1:2500).

### 9.2 Ground VLF:

Two methods of presentation are utilized:

a) Profiles plots of true dip angle in degrees (1 cm = 10 degrees) together with the field strength in contour format, presented in maps VLF-1 and VLF-2.

b) A contour plan section of the convolution of the Fraser Filter and the dip angle is presented in Maps FF-1 and FF-2.

### 9.3 Interpretation overlay map INT-1.

## 10. RESULTS AND INTERPRETATION:

On the basis of magnetic background two domains have been identified, see maps 4a and 4b. Mainly mafic and felsic volcanics.

Several faults have been depicted from magnetics and VLF. Other VLF lineations (shear zones) have been marked. The most important feature is the fault running N-S in the central part of the property. Since this fault intersects the two domains it could be a potential feature for gold deposition. Other possible faults have been marked as questionable.

The VLF data profiles show two clear anomaly axes (E-W). Most of the profiles present a low amplitude anomalous events that are enhanced somewhat by the Frazer filter.

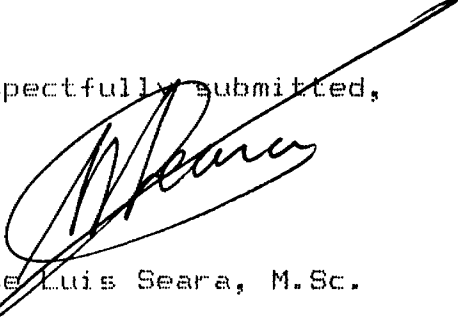
#### 11. CONCLUSIONS AND RECOMMENDATIONS:

The magnetics and VLF surveys have been able to delineate some clues about the geology of these claims.

A major N-S fault was located that offers possibilities for gold deposition.

It is recommended to carry out some detail I.P. surveys over some of the areas mentioned above, if soil geochemistry gives positive results.

Respectfully submitted,



Jose Luis Seara, M.Sc.

Senior Geophysicist

GOLD FIELDS Mining Corporation



1983 08 11

2.4890

Mr. William L. Good  
 Mining Recorder  
 Ministry of Natural Resources  
 60 Wilson Avenue  
 Timmins, Ontario  
 P4N 2S7

Dear Sir:

RE: Geophysical (Electromagnetic and Magnetometer) Survey  
 on Mining Claims P 597722 et al in the Township of  
 Horwood

*1/2500 7 maps**42B/1SW*

The Geophysical (Electromagnetic and Magnetometer) Survey  
 assessment work credits as listed with my Notice of Intent  
 dated July 18, 1983 have been approved as of the above date.

Please inform the recorded holder of these mining claims  
 and so indicate on your records.

Yours very truly,

*29 ds*

E.F. Anderson  
 Director  
 Land Management Branch

Whitney Block, Room 6450  
 Queen's Park  
 Toronto, Ontario  
 M7A 1W3  
 Phone: (416)965-1380

R. Pichette:mc

cc: Goldfields Resources Canada Ltd  
 Mississauga, Ontario

*J L SEARA*

cc: Resident Geologist  
 Timmins, Ontario

AMENDED

1983 07 18

<b>Recorded Holder</b>	GOLD FIELDS RESOURCES CANADA LIMITED
<b>Township or Area</b>	HORWOOD TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b> Electromagnetic _____ 20 _____ days Magnetometer _____ 40 _____ days Radiometric _____ days Induced polarization _____ days Section <del>86(18)</del> <sup>77(19)</sup> _____ days <b>Geological</b> _____ days <b>Geochemical</b> _____ days  Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/>  <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.  <div style="text-align: right;">77(16)</div>	P 597722-23 597726 to 30 inclusive 597734 to 36 inclusive 625930 to 33 inclusive 628067 628069 to 76 inclusive 597732-33

Special credits under section ~~86(18)~~ <sup>77(19)</sup> for the following mining claims

10 DAYS ELECTROMAGNETIC	20 DAYS MAGNETOMETER
P 628068	

No credits have been allowed for the following mining claims

<input checked="" type="checkbox"/> not sufficiently covered by the survey	<input type="checkbox"/> Insufficient technical data filed
--	--

P 597724-25  
597731

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section ~~86(18)~~ <sup>77(19)</sup>:



Ministry of  
Natural  
Resources

Aug 9/83

AMENDED

Your file:

1983 07 18

Our file: 2.4890

Mr. William L. Good  
Mining Recorder  
Ministry of Natural Resources  
60 Wilson Avenue  
Timmins, Ontario  
P4N 2S7

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson  
Director  
Land Management Branch

Whitney Block, Room 6450  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: 416/965-1316

Encs:





Ministry of  
Natural  
Resources

Ontario

AMENDED

Notice of Intent  
for Technical Reports

1983 07 18

2.4890

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

1983 07 18

2.4890

Mr. William L. Good  
Mining Recorder  
Ministry of Natural Resources  
60 Wilson Avenue  
Timmins, Ontario  
P4N 2S7

Dear Sir:

RE: Geophysical (Electromagnetic and Magnetometer) Survey  
submitted on mining claims P 597722 et al in the Township  
of Horwood

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Please disregard my Notice of Intent dated June 30, 1983 and  
replace it with the attached amended Notice of Intent.

Yours very truly,

E.F. Anderson  
Director  
Land Management Branch

Whitney Block, Room 6450  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: (416)965-1380

R. Pichette:mc

Attach:

cc: Goldfields Resources Canada Ltd  
Mississauga, Ontario

cc: Mr. G.H. Ferguson  
Mining & Lands Commissioner  
Toronto, Ontario



Ministry of  
Natural  
Resources

July 22/83

Your file:

1983 06 30

Our file: 2.4890

Mr. William L. Good  
Mining Recorder  
Ministry of Natural Resources  
60 Wilson Avenue  
Timmins, Ontario  
P4N 2S7

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson  
Director  
Land Management Branch

Whitney Block, Room 6450  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: 416/965-1316

*R.P.*  
R. Pichette:mc

cc: Gold Fields Resources Canada Limited  
Mississauga, Ontario

cc: Mr. G.H. Ferguson  
Mining & Lands Commissioner  
Toronto, Ontario

Encs:



Ministry of  
Natural  
Resources

Notice of Intent  
for Technical Reports

1983 06 30

2.4890

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



Ontario

Ministry of Natural Resources

# Technical Assessment Work Credits

File  
2.4890

1983 06 30

Recorded Holder	GOLD FIELDS RESOURCES CANADA LIMITED
Township or Area	HORWOOD TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical <span style="float: right;">20</span> Electromagnetic _____ days Magnetometer _____ days <span style="float: right;">40</span> Radiometric _____ days Induced polarization _____ days Section 86 (18) _____ days Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant. <div style="text-align: right; font-weight: bold;">77(16)</div>	P 597722 - 23 P 597726 to 30 inclusive P 597734 to 36 inclusive P 625930 to 33 inclusive P 628067 P 628069 to 76 inclusive <div style="font-size: 2em; transform: rotate(-45deg); opacity: 0.5; position: absolute; top: 50%; left: 50%; pointer-events: none;">Amended</div>

Special credits under section ~~86(15)~~ for the following mining claims

10 Days Electromagnetic	20 days Magnetometer
P628068	

No credits have been allowed for the following mining claims

<input checked="" type="checkbox"/> not sufficiently covered by the survey	<input type="checkbox"/> Insufficient technical data filed
P 597724 - 25 P 597731 to 33 inclusive (32 & 33)	

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 86(18)-60:

Mining Lands Comments


To: Geophysics *Mr. Barlow*

Comments

<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date <i>April 9/83</i>	Signature <i>R. V. Ch</i>
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To: Geology - Expenditures

Comments

<input type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date	Signature
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To: Geochemistry

Comments
<i>WT</i>

<input type="checkbox"/> Approved	<input type="checkbox"/> Wish to see again with corrections	Date	Signature
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To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

1982 07 05

2.4890

Mining Recorder  
Ministry of Natural Resources  
60 Wilson Avenue  
Timmins, Ontario  
P4N 2S7

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic and Magnetometer) survey submitted under Special Provisions (credit for Performance and Coverage) on mining claims P 597734 et al in the Township of Horwood.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson  
Director  
Land Management Branch

Whitney Block, Room 6450  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: 416/965-1316

J. Skura/sc

c.c. Gold Fields Resources Canada Limited  
Mississauga, Ontario  
Att: Jose L. Sears.



Report of Work  
(Geophysical, Geological,  
Geochemical and Expenditures)

P-591122  
#187  
The Mining Act

- Instructions: - Please type or print.  
- If number of mining claims traversed exceeds space on this form, attach a list.  
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.  
- Do not use shaded areas below.

*Horwood Twp.*

Type of Survey(s) Magnetometer & Electromagnetic - VLF	Township or Area Horwood Township
Claim Holder(s) Gold Fields Resources Canada Limited	Prospector's Licence No. T-1028
Survey Company Gold Fields Resources Canada Limited	Survey Dates (linecutting to office) March 1982 Day   Mo.   Yr.
Name and Address of Author (of Geo-Technical report) #335-230 Lakeshore Road East, Mississauga, Ontario L5G 1G8	
Total Miles of Line Cut 42.5 Km.	

Special Provisions Credits Requested

Instructions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	20
	- Magnetometer	40
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days

Instructions	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits

Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

Expenditures (excludes power stripping)

Type of Work Performed	PORCUPINE MINING DIVISION
Performed on Claim(s)	RECEIVED
	MAY 20 1982
Calculation of Expenditure, Days Credits	
Total Expenditures	\$ [ ] + 15 = [ ]

Instructions  
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Report Completed

Date of Report May 19 1982	Recorder Holder or Agent (Signature) William R Troup
-------------------------------	---

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying  
W. Troup

Date Certified May 19 1982	Certified by (Signature) William R Troup
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Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
P	597722		P	628074	
	597723			628075	
	597724			628076	
	597725			<del>599729</del>	
	597726			597729	
	597727				
	597728				
	597730				
	597731				
	597732				
	597733				
	597734				
	597735				
	597736				
	625930				
	625931				
	625932				
	625933				
	628067				
	628068				
	628069				
	628070				
	628071				
	628072				
	628073				

RECORDED  
MAY 20 1982  
Receipt No. ....

*See reverse  
of statement*

RECEIVED  
MAY 31 1982  
MINING LANDS SECTION

Total number of mining claims covered by this report of work. 29

For Office Use Only		Mining Recorder
Total Days Cr. Recorded 1740	Date Recorded May 20 1982	<i>[Signature]</i>
	Date Approved as Recorded	Regional/Branch Director Regional Mining Recorder





GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL  
TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT  
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT  
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Magnetometer & Electromagnetic - VLF (Pinecone Point)  
Township or Area Horwood Township  
Claim Holder(s) Gold Fields Resources Canada Limited  
#335-230 Lakeshore Rd. E. Mississauga, L5G 1G8  
Survey Company Gold Fields Resources  
Author of Report Jose L. Seara  
Address of Author #335-230 Lakeshore Rd. East.  
Covering Dates of Survey March 18 - June 1982  
(linecutting to office)  
Total Miles of Line Cut 39.16 Km

MINING CLAIMS TRAVERSED  
List numerically

P 597734	P 597727
(prefix)	(number)
597735	597728
597736	597729
625930	597730
625931	597731
625932	597732
625933	597733
628067	
628068	
628069	
628070	
628071	
628072	
628073	
628074	
628075	
628076	
597722	
597723	
597724	
597725	
597726	

<u>SPECIAL PROVISIONS CREDITS REQUESTED</u>	Geophysical	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	-Electromagnetic	<u>20</u>
ENTER 20 days for each additional survey using same grid.	-Magnetometer	<u>40</u>
	-Radiometric	_____
	-Other	_____
	Geological	_____
	Geochemical	_____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: June 23/82 SIGNATURE: [Signature]  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications 2.4644

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 29

OFFICE USE ONLY

If space insufficient, attach list

# GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations 1255 Number of Readings VLF - 1255  
Mag - 1573  
Station interval 25 metres Line spacing 125 metres  
Profile scale 1"=20° (dip angle) 1"=100° (horizontal field)  
Contour interval 25 gammas

MAGNETIC

Instrument Proton Precession Total Field  
Accuracy – Scale constant .1 NT  
Diurnal correction method automatic programmable  
Base Station check-in interval (hours) 20 seconds  
Base Station location and value 0+70 N at 6+15 E

ELECTROMAGNETIC

Instrument Phoeni VLF -2  
Coil configuration N/A  
Coil separation N/A  
Accuracy +1° (dip angle) 20° (horizontal field strength)  
Method:  Fixed transmitter  Shoot back  In line  Parallel line  
Frequency 17.6 Khz Cutler, Maine  
(specify V.L.F. station)  
Parameters measured Horizontal Field Strenght; Dip Angle

GRAVITY

Instrument \_\_\_\_\_  
Scale constant \_\_\_\_\_  
Corrections made \_\_\_\_\_  
Base station value and location \_\_\_\_\_  
Elevation accuracy \_\_\_\_\_

INDUCED POLARIZATION  
RESISTIVITY

Instrument \_\_\_\_\_  
Method  Time Domain  Frequency Domain  
Parameters – On time \_\_\_\_\_ Frequency \_\_\_\_\_  
– Off time \_\_\_\_\_ Range \_\_\_\_\_  
– Delay time \_\_\_\_\_  
– Integration time \_\_\_\_\_  
Power \_\_\_\_\_  
Electrode array \_\_\_\_\_  
Electrode spacing \_\_\_\_\_  
Type of electrode \_\_\_\_\_

SELF POTENTIAL

Instrument \_\_\_\_\_ Range \_\_\_\_\_

Survey Method \_\_\_\_\_

Corrections made \_\_\_\_\_

RADIOMETRIC

Instrument \_\_\_\_\_

Values measured \_\_\_\_\_

Energy windows (levels) \_\_\_\_\_

Height of instrument \_\_\_\_\_ Background Count \_\_\_\_\_

Size of detector \_\_\_\_\_

Overburden \_\_\_\_\_

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey \_\_\_\_\_

Instrument \_\_\_\_\_

Accuracy \_\_\_\_\_

Parameters measured \_\_\_\_\_

Additional information (for understanding results) \_\_\_\_\_

AIRBORNE SURVEYS

Type of survey(s) \_\_\_\_\_

Instrument(s) \_\_\_\_\_

(specify for each type of survey)

Accuracy \_\_\_\_\_

(specify for each type of survey)

Aircraft used \_\_\_\_\_

Sensor altitude \_\_\_\_\_

Navigation and flight path recovery method \_\_\_\_\_

Aircraft altitude \_\_\_\_\_ Line Spacing \_\_\_\_\_

Miles flown over total area \_\_\_\_\_ Over claims only \_\_\_\_\_

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total Number of Samples \_\_\_\_\_

Type of Sample \_\_\_\_\_  
(Nature of Material)

Average Sample Weight \_\_\_\_\_

Method of Collection \_\_\_\_\_  
\_\_\_\_\_

Soil Horizon Sampled \_\_\_\_\_

Horizon Development \_\_\_\_\_

Sample Depth \_\_\_\_\_

Terrain \_\_\_\_\_  
\_\_\_\_\_

Drainage Development \_\_\_\_\_

Estimated Range of Overburden Thickness \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

General \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ANALYTICAL METHODS

Values expressed in: per cent   
p. p. m.   
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, (circle)

Others \_\_\_\_\_

Field Analysis (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Field Laboratory Analysis

No. (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Commercial Laboratory (\_\_\_\_\_ tests)

Name of Laboratory \_\_\_\_\_

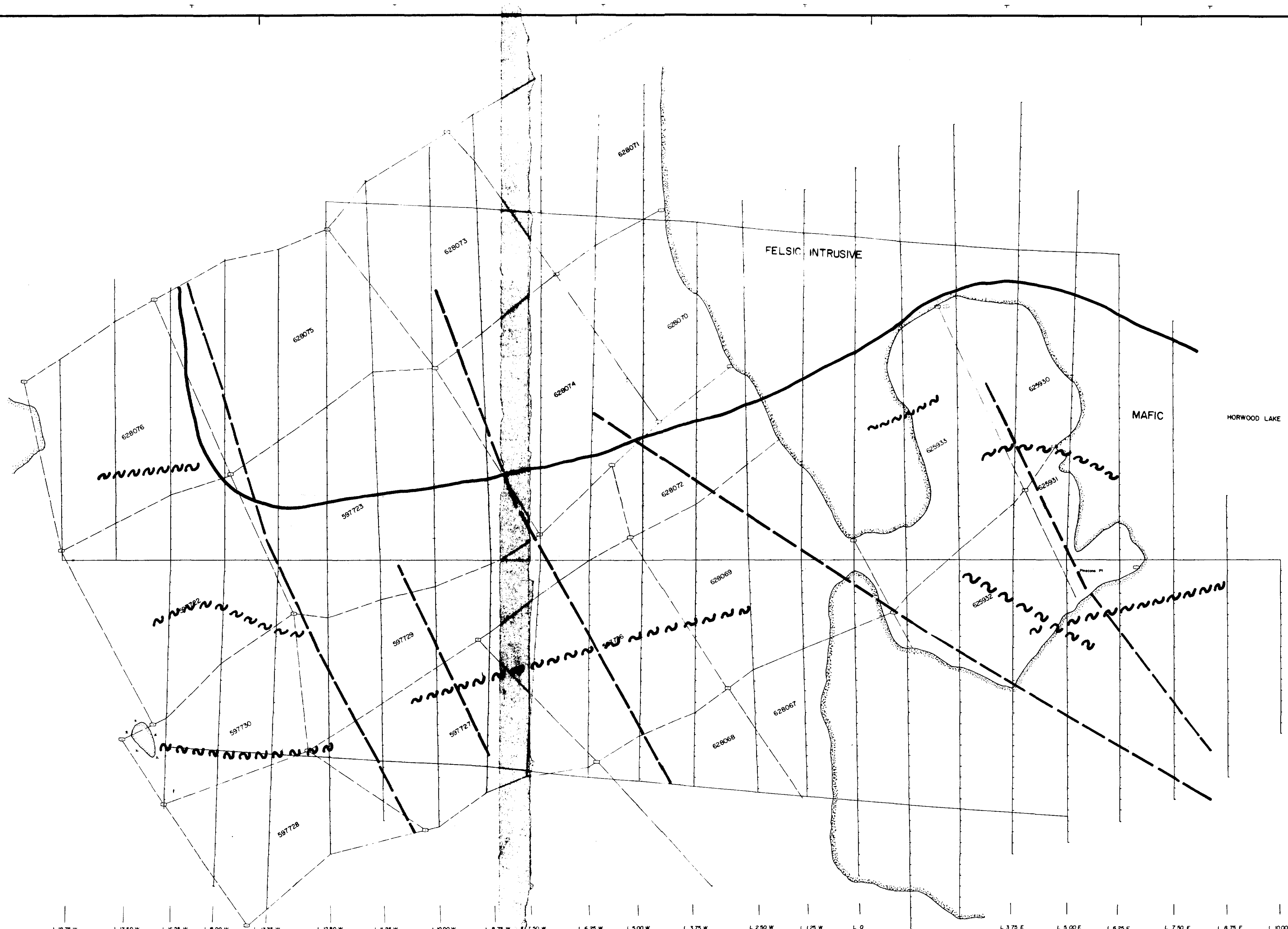
Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

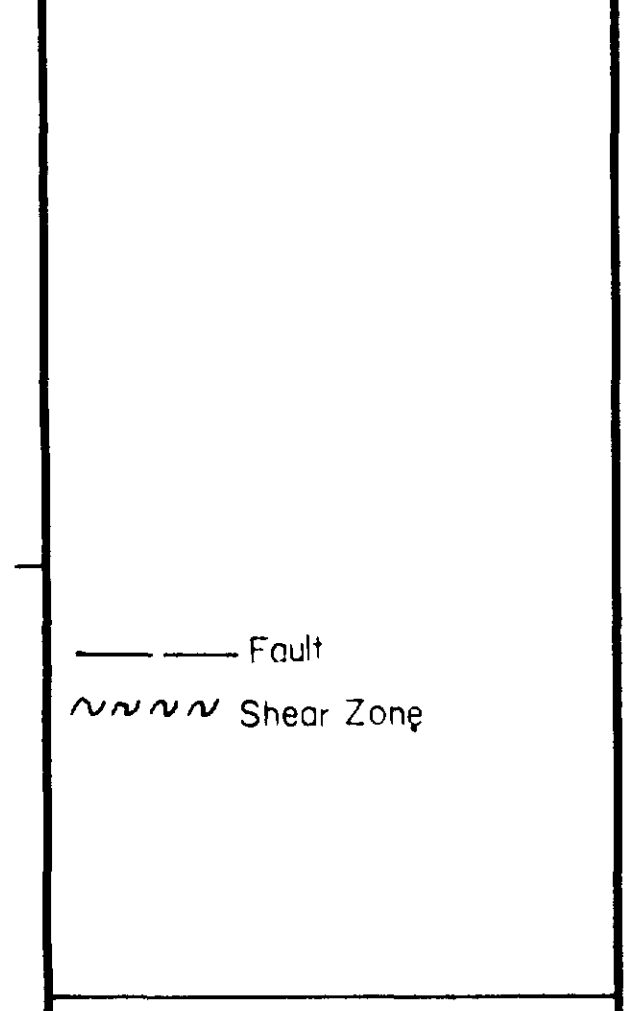
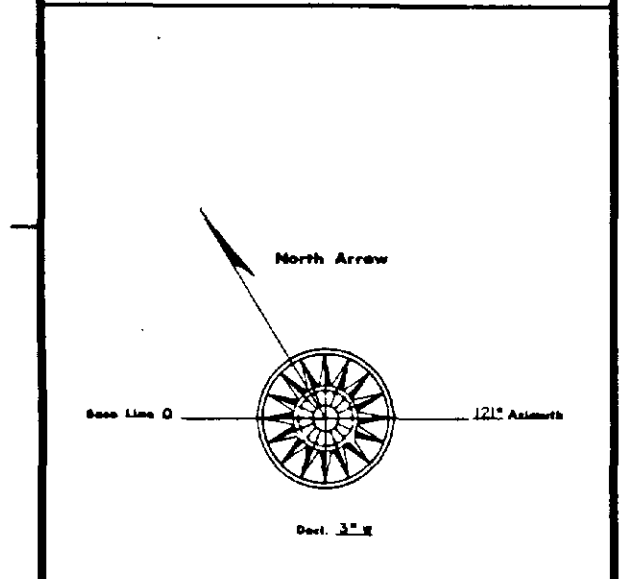
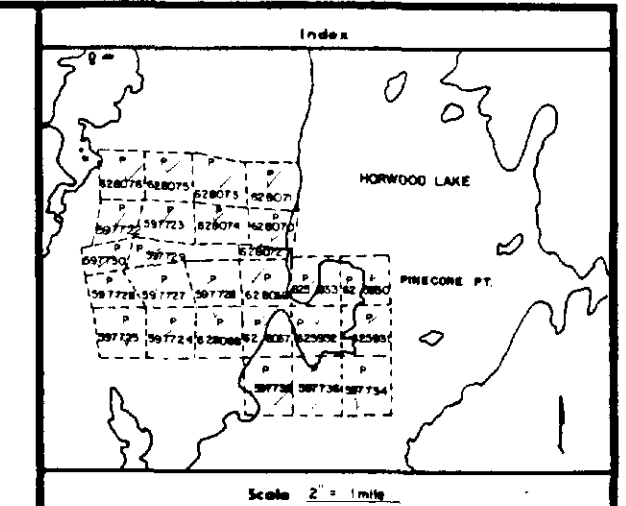
General \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

1100 N  
1050 N  
1000 N  
950 N  
900 N  
850 N  
800 N  
750 N  
700 N  
650 N  
600 N  
550 N  
500 N  
450 N  
400 N  
350 N  
300 N  
250 N  
200 N  
150 N  
100 N  
50 N  
R.L. 0  
50 S  
100 S  
150 S  
200 S  
250 S  
300 S  
350 S  
400 S  
450 S  
500 S  
550 S  
600 S  
650 S  
700 S  
750 S  
800 S



L 18 75 W L 17 50 W L 16 25 W L 6 00 W L 13 75 W L 12 50 W L 11 25 W L 10 00 W L 8 75 W L 7 50 W L 6 25 W L 5 00 W L 3 75 W L 2 50 W L 1 25 W L 0 L 1 25 E L 2 50 E L 3 75 E L 5 00 E L 6 25 E L 7 50 E L 8 75 E L 10 00 E

1050 N  
1000 N  
950 N  
900 N  
850 N  
800 N  
750 N  
700 N  
650 N  
600 N  
550 N  
500 N  
450 N  
400 N  
350 N  
300 N  
250 N  
200 N  
150 N  
100 N  
50 N  
R.L. 0  
50 S  
100 S  
150 S  
200 S  
250 S  
300 S  
350 S  
400 S  
450 S  
500 S  
550 S  
600 S  
650 S  
700 S  
750 S  
800 S  
850 S



Total time: \_\_\_\_\_

Metric: \_\_\_\_\_

English: \_\_\_\_\_

Revisions: \_\_\_\_\_

PRECONE POINT

HORWOOD

Area: Folyst, Ontario

Scale: 1:2500

Date: April 1982

Drawn by: G.F.M.

Checked by: \_\_\_\_\_

Map No. INT-1

1 of 2

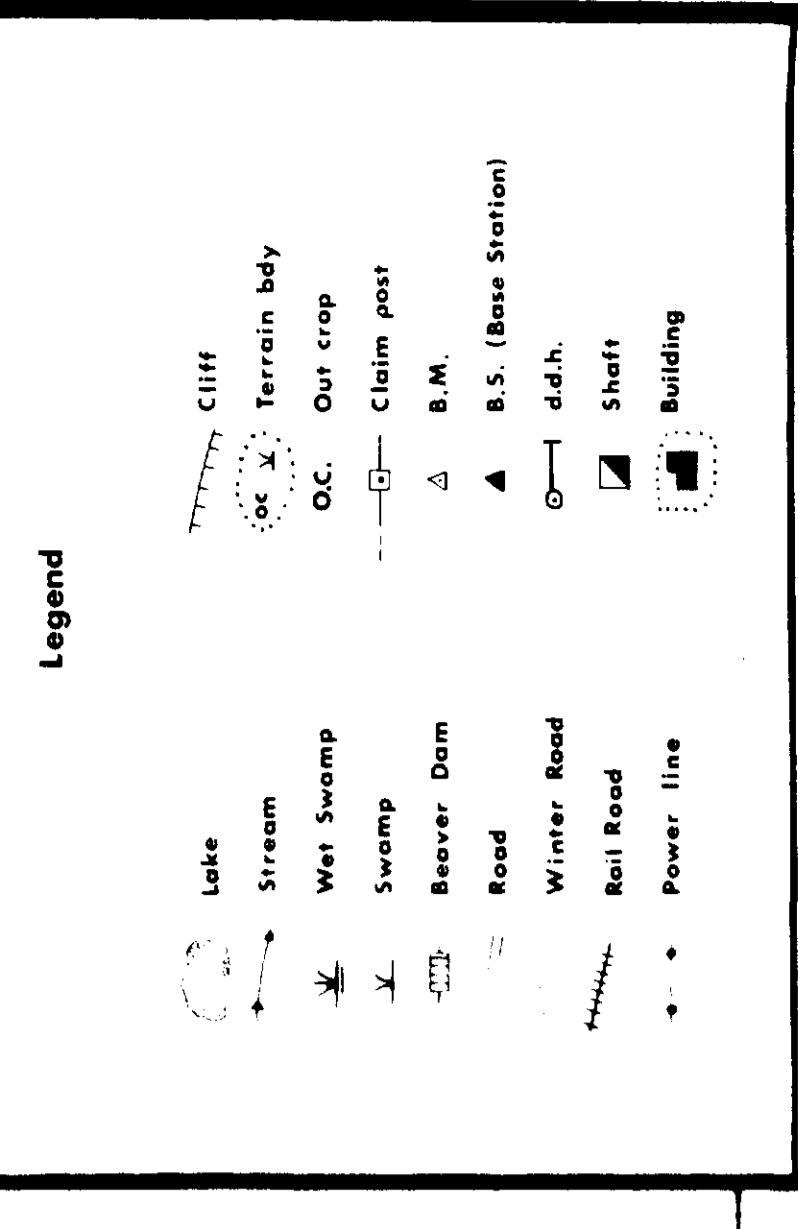
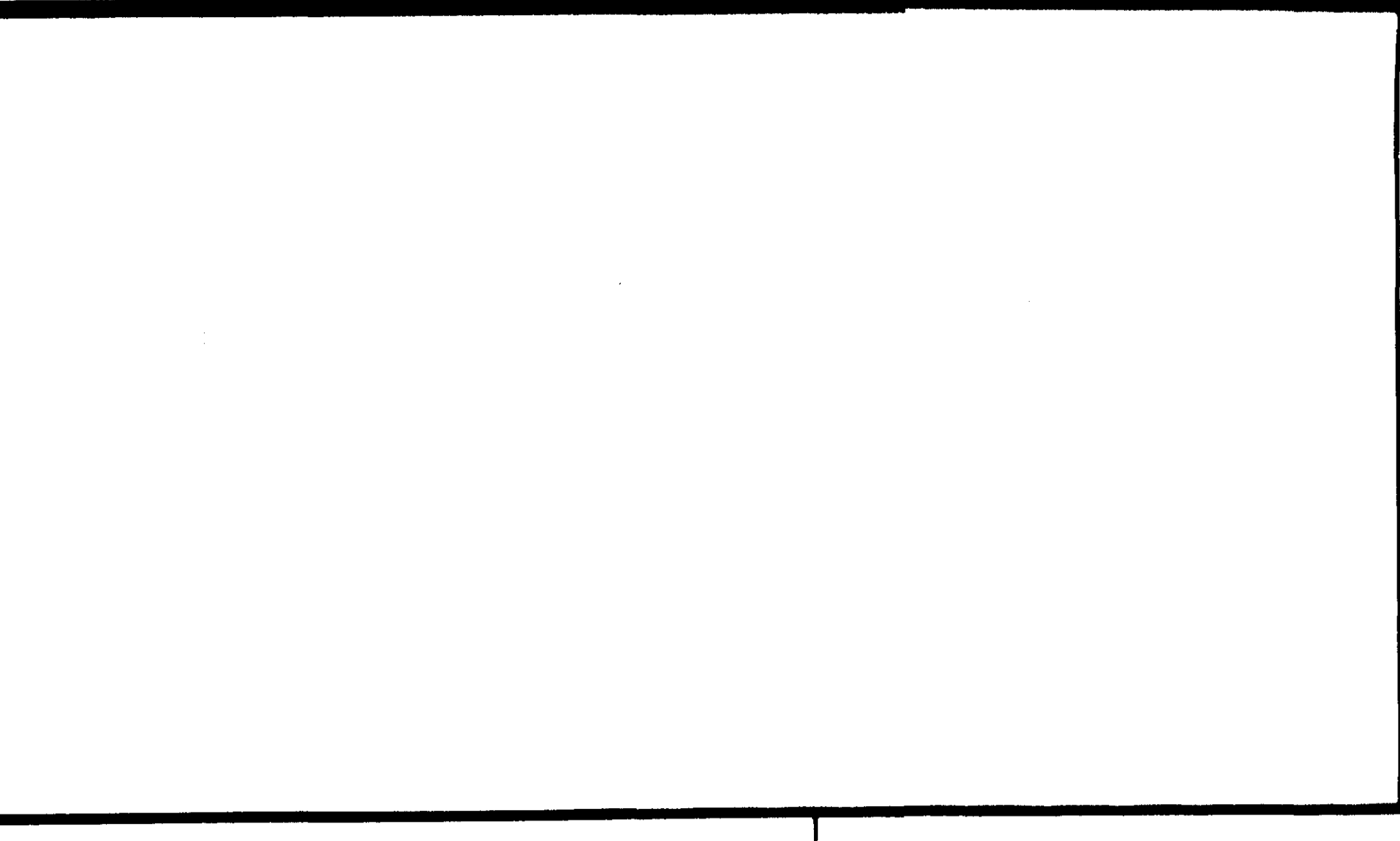
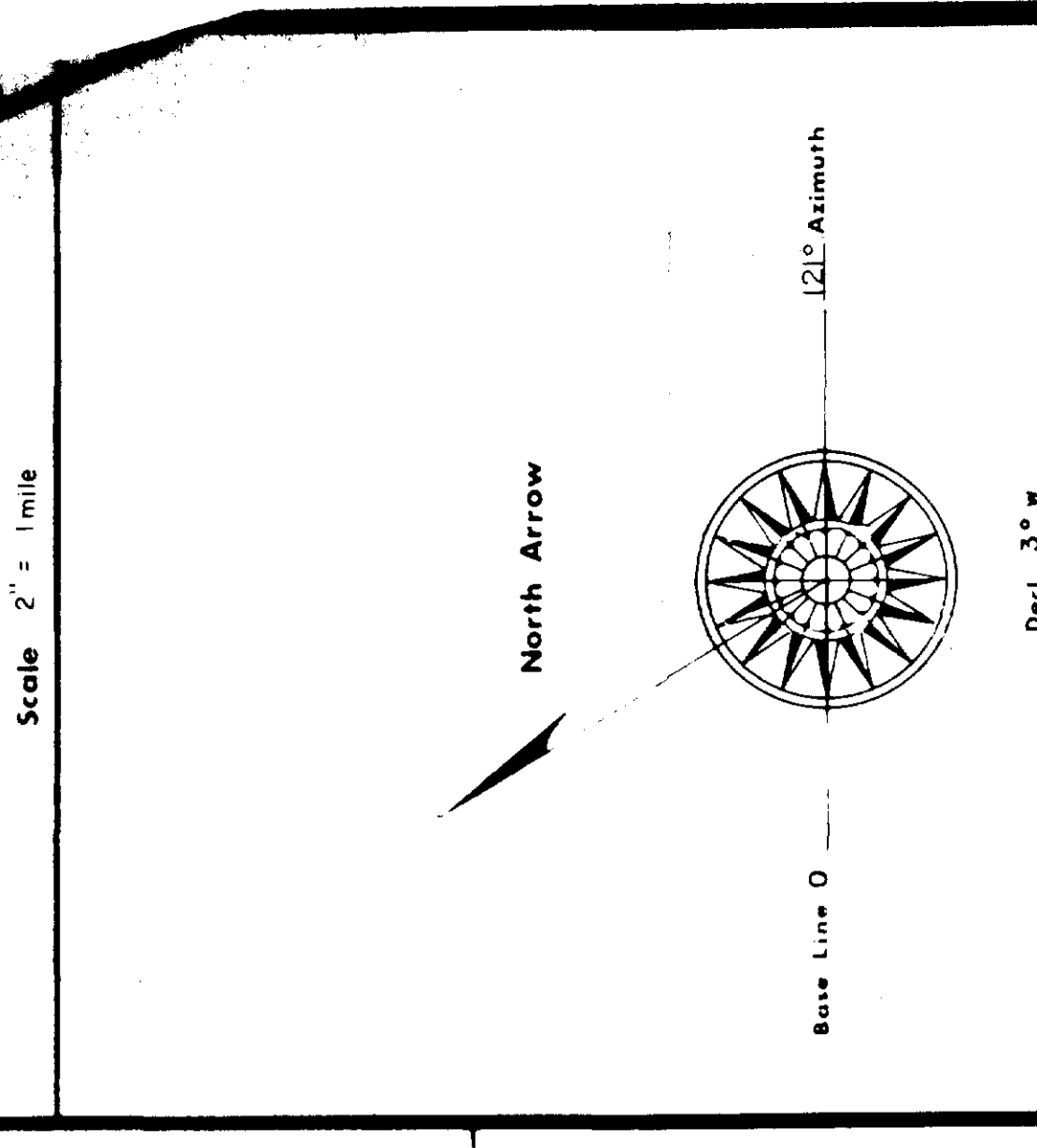
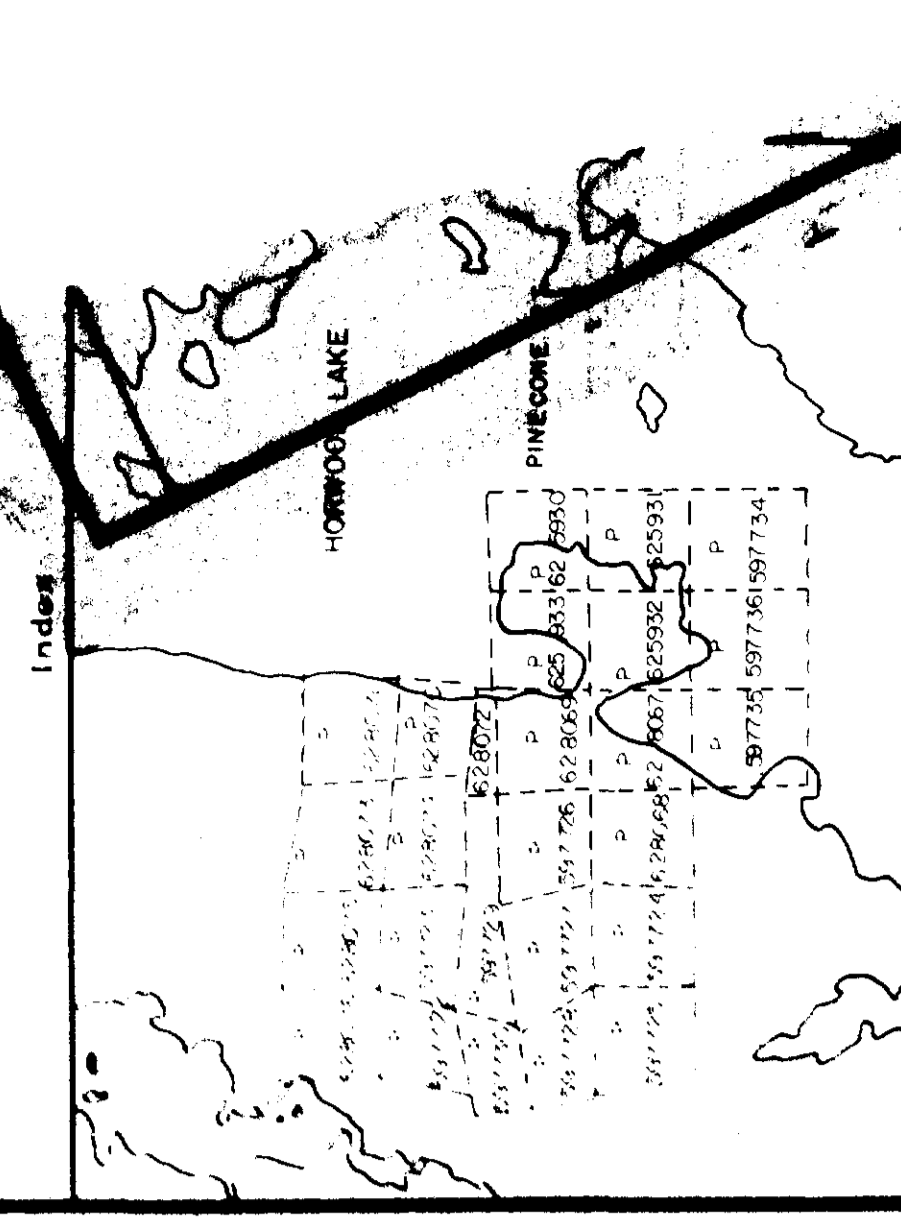
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Map 4 A

24590

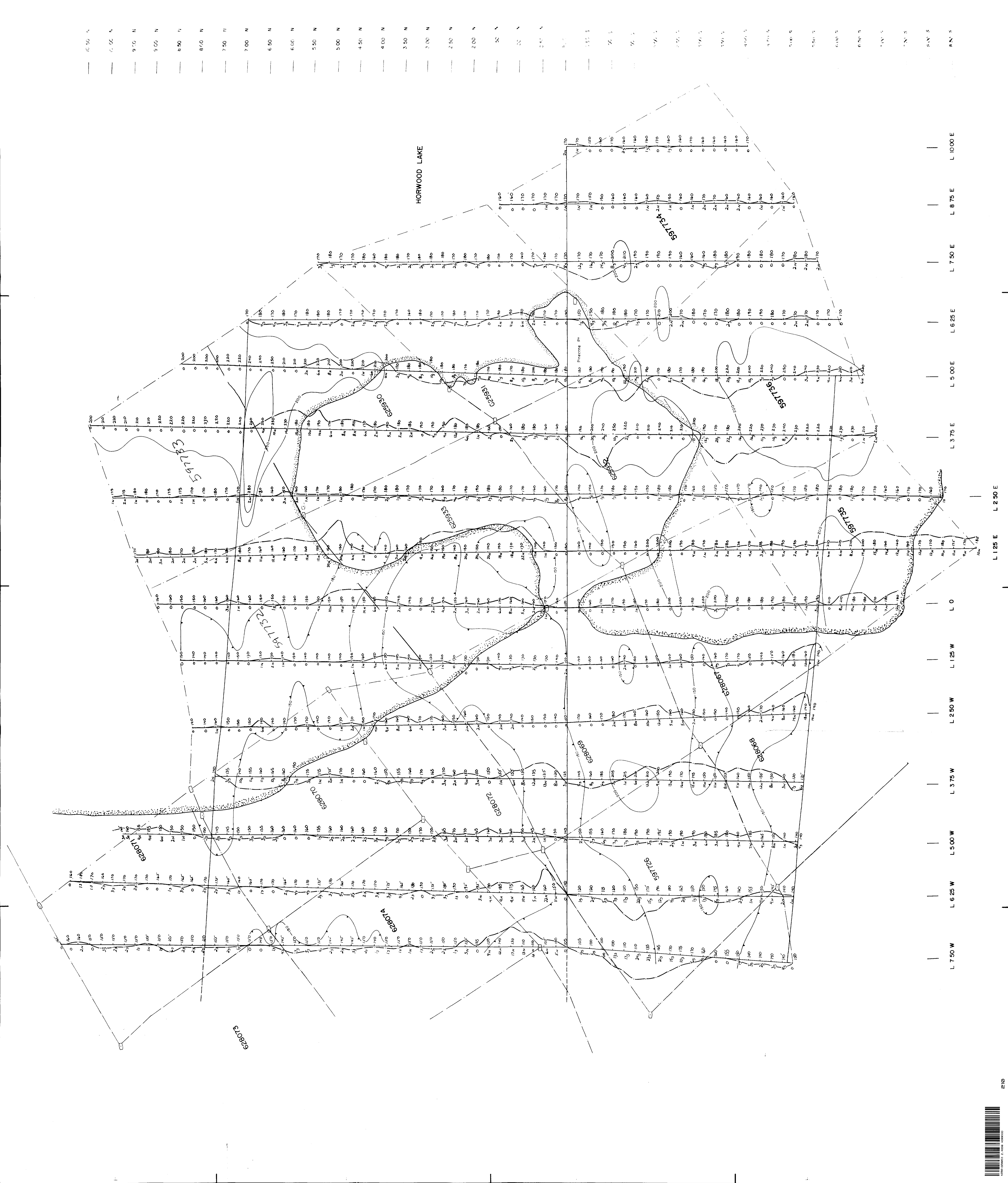
Map 4 B

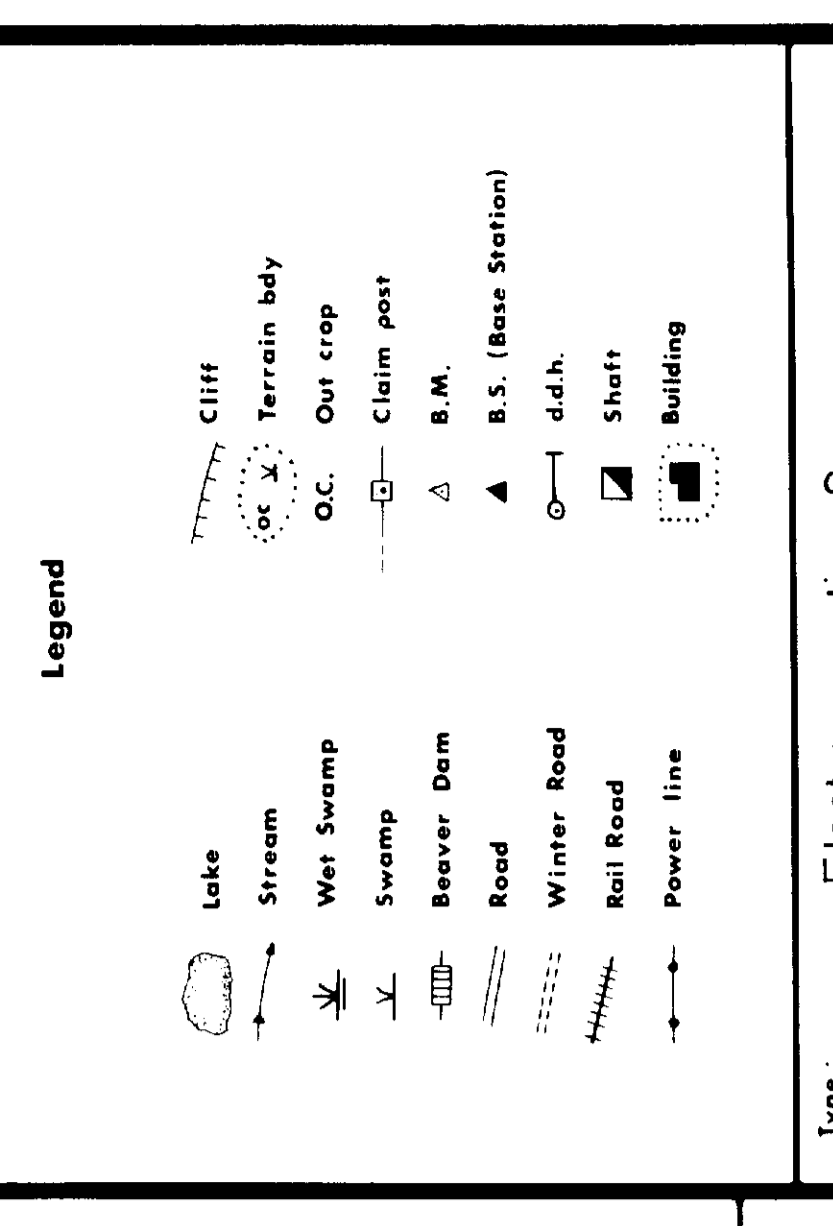
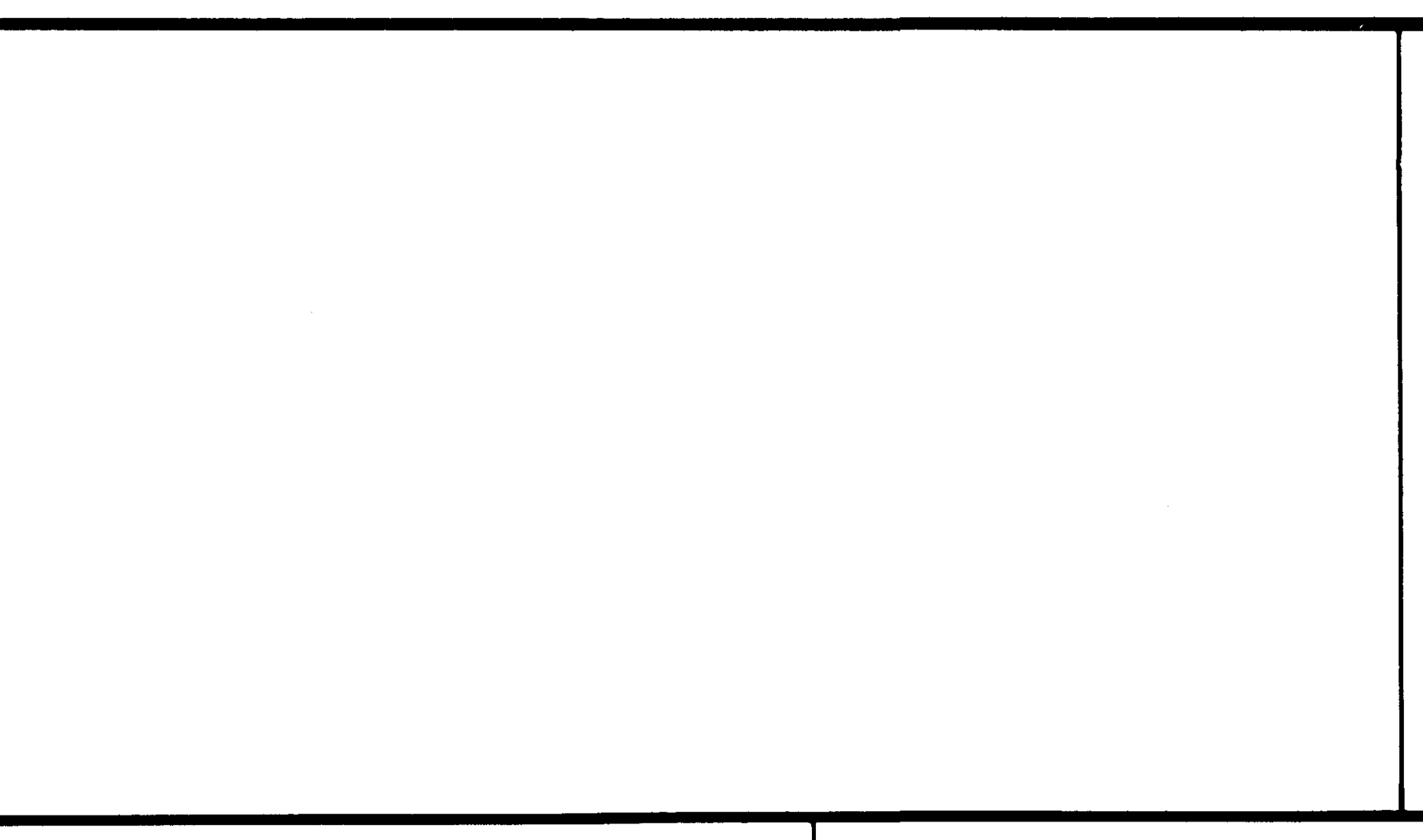
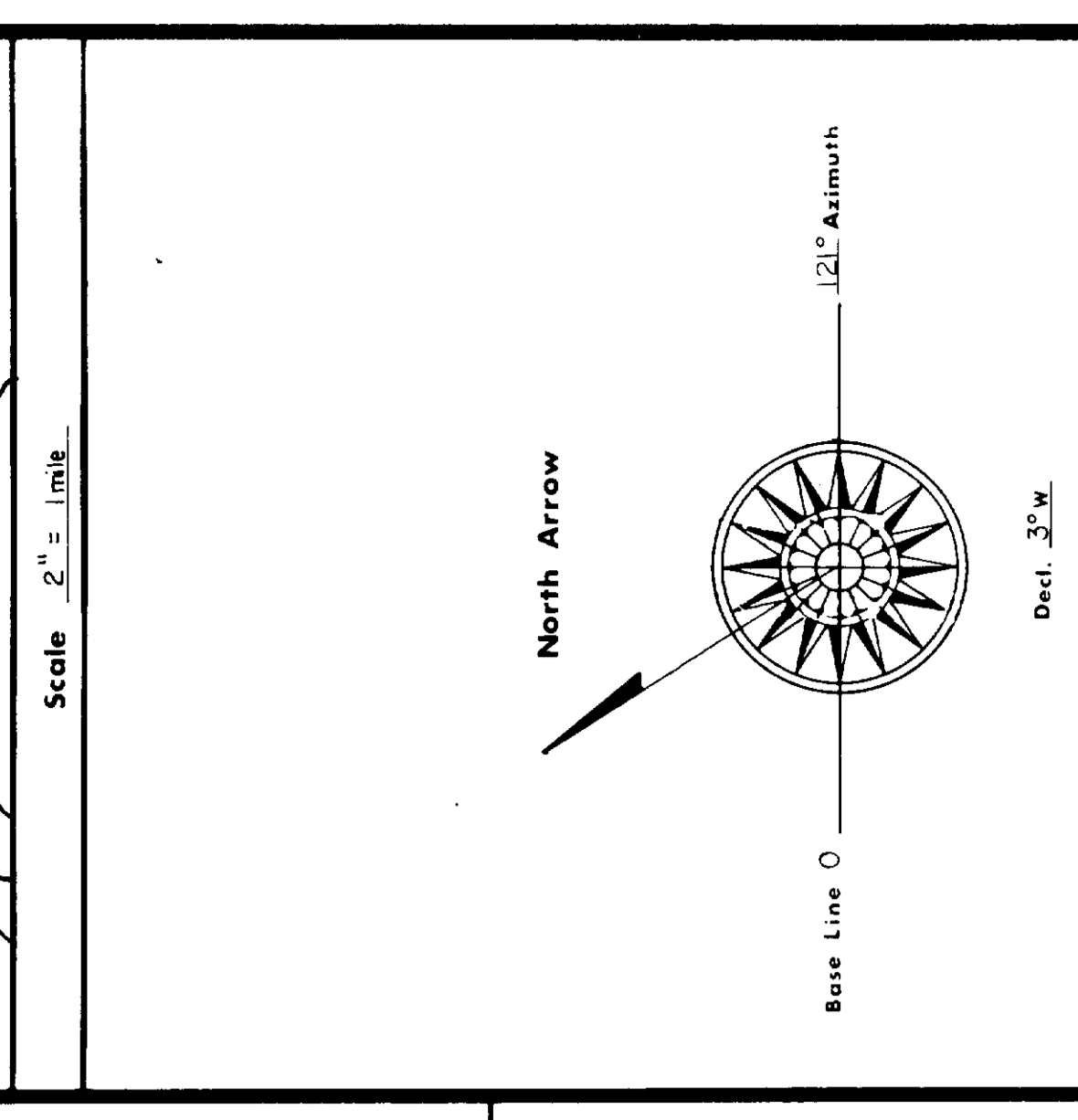
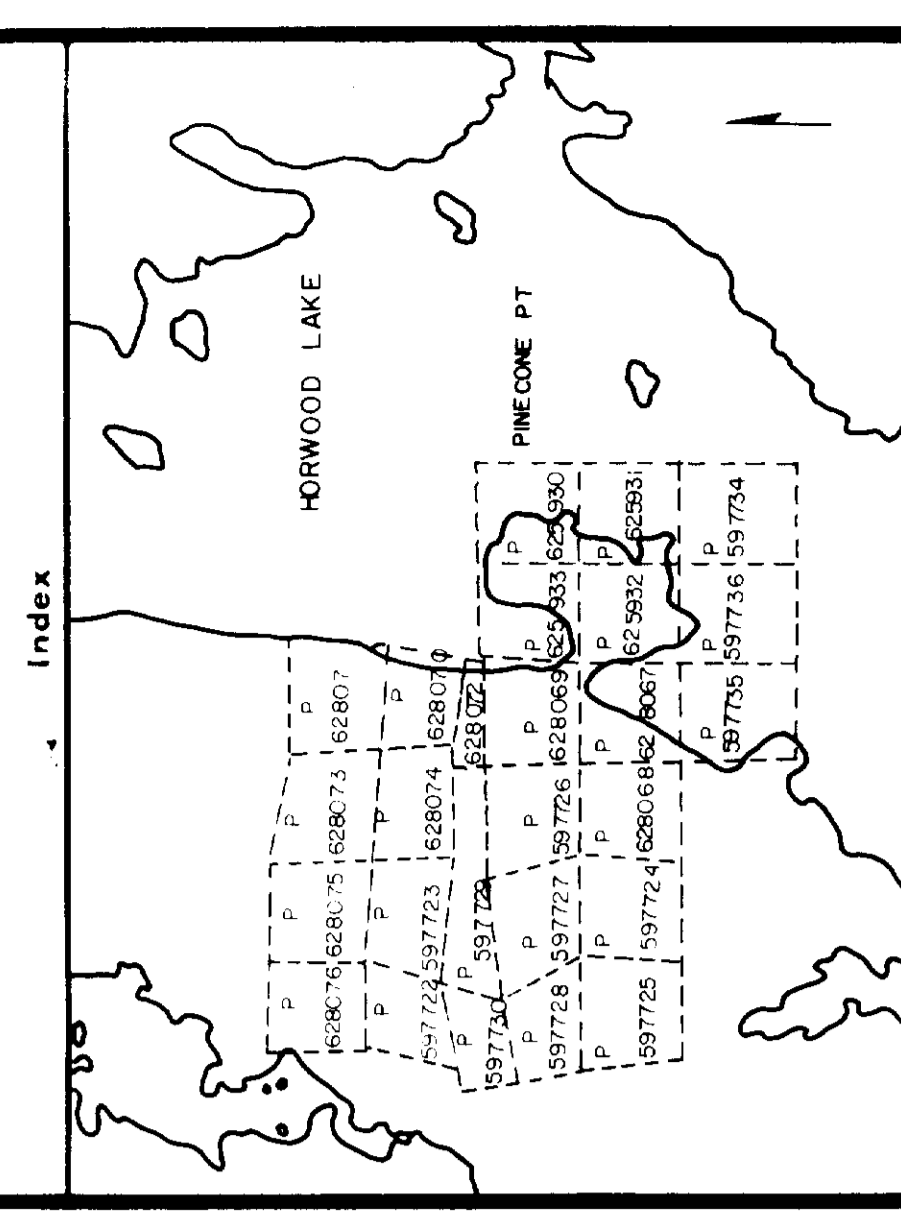




Type		Electromagnetic Survey	
Speed	5/8 (1)	Area	1.100 per cent
Scale	1:2500	Perimeter	1000
Year	1982	Area	1000
Date	April 1982	Area	1000
Control	G. FOX	Area	1000
Control	N.T.S. 42 B / I	Area	1000

Project: PINECONE POINT  
 Type: Horwood  
 Area: Folger, Ontario  
 Scale: 1:2500  
 Date: April 1982  
 Control: G. FOX  
 Control: N.T.S. 42 B / I

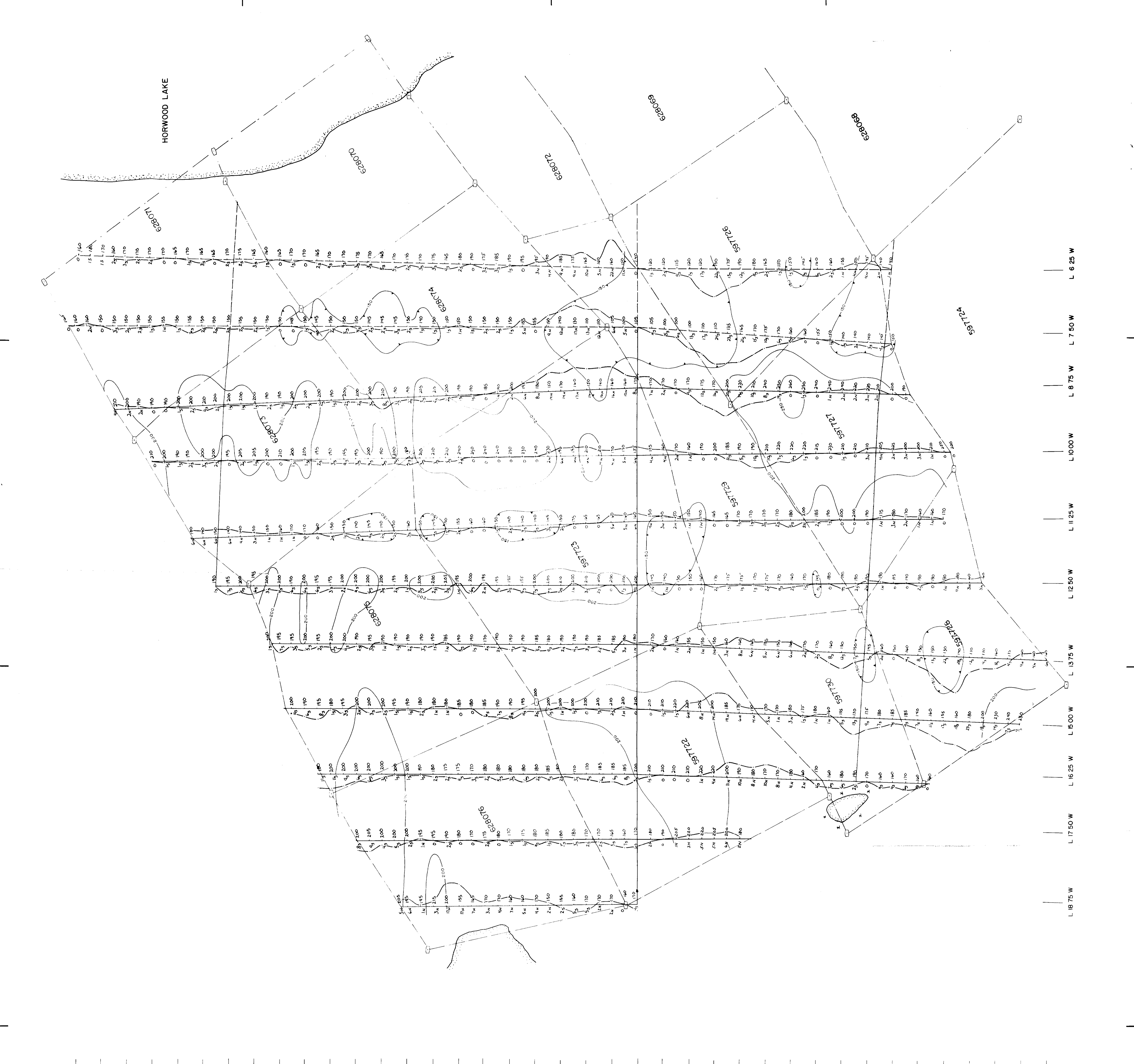




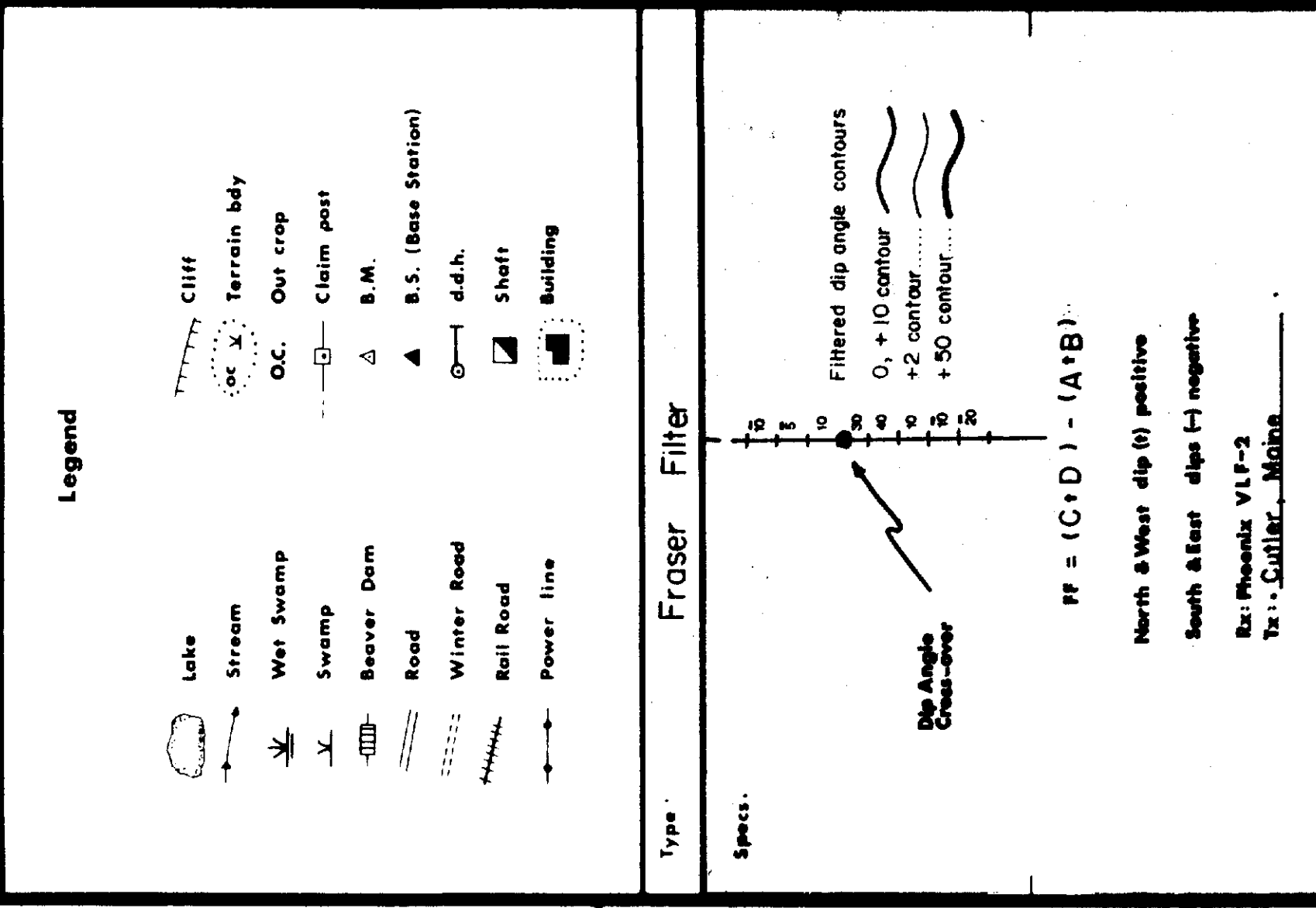
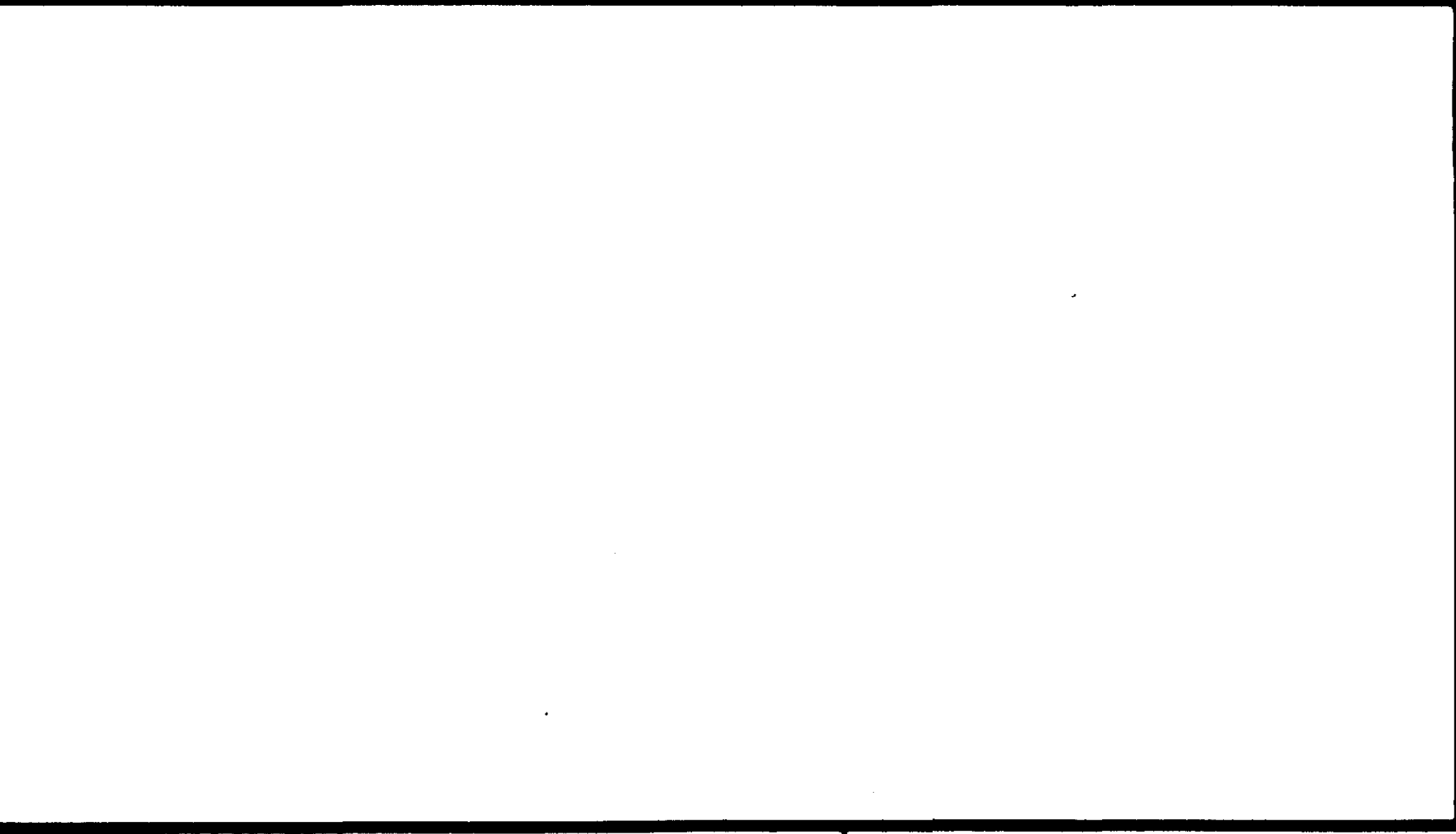
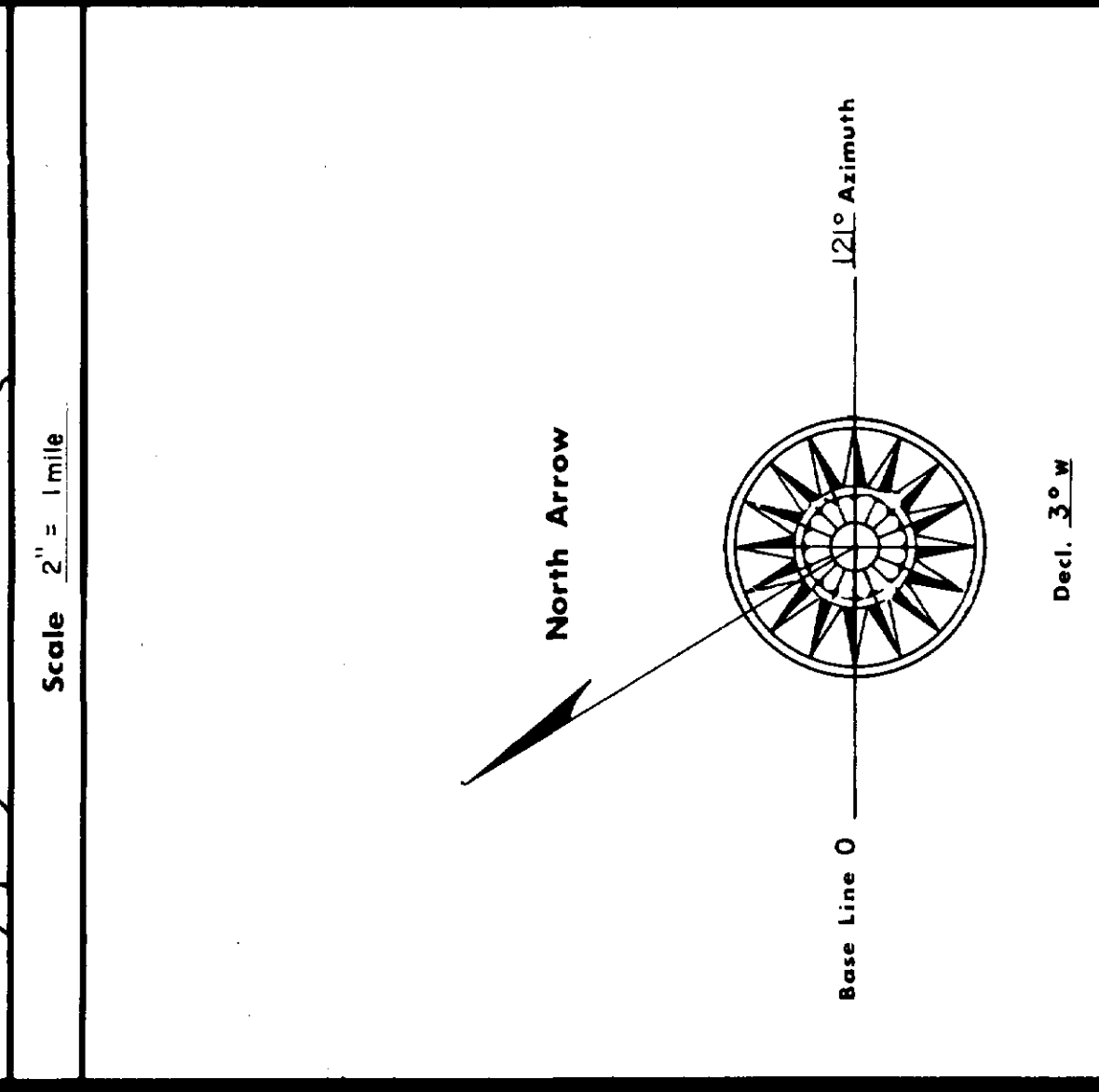
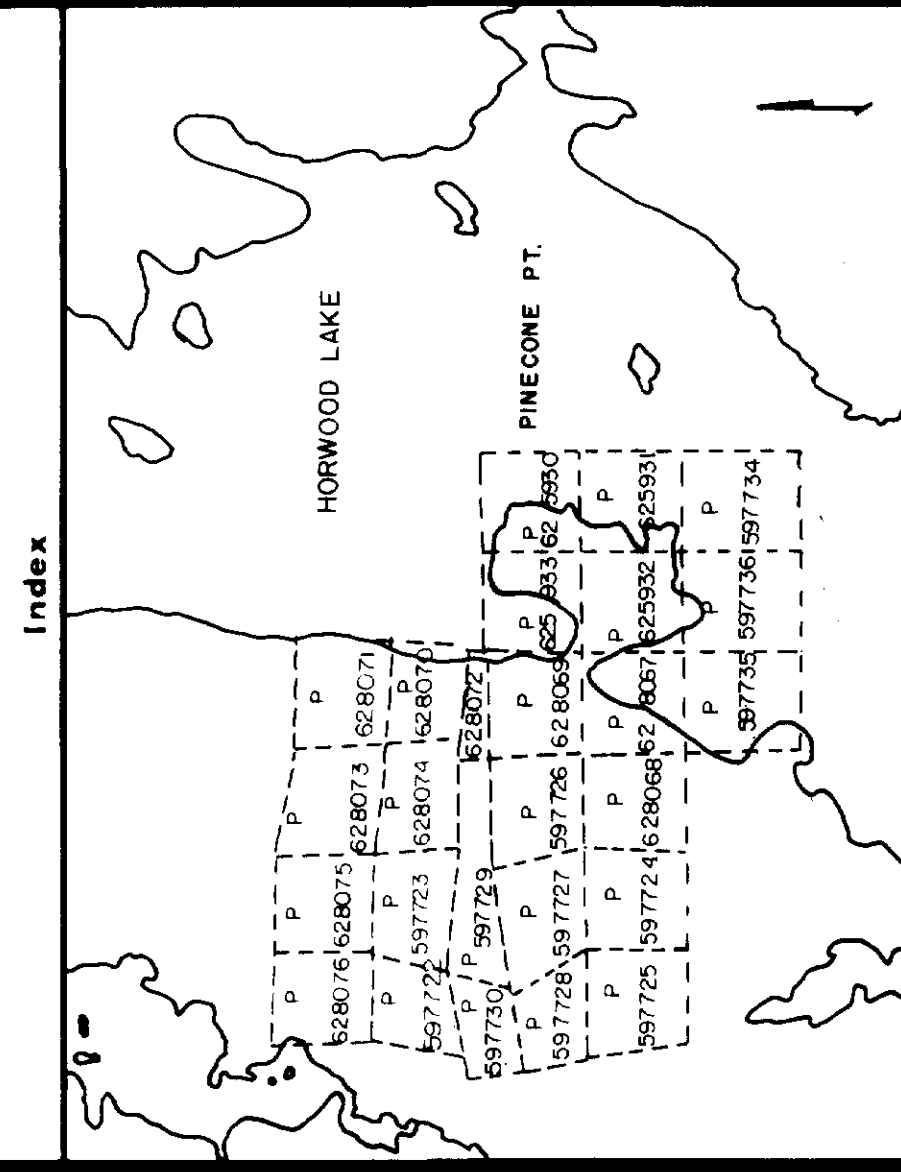
Metric		English	
0	0	0	0
100	100	100	100
200	200	200	200
300	300	300	300
400	400	400	400
500	500	500	500
600	600	600	600
700	700	700	700
800	800	800	800
900	900	900	900
1000	1000	1000	1000

Total Readings: 468

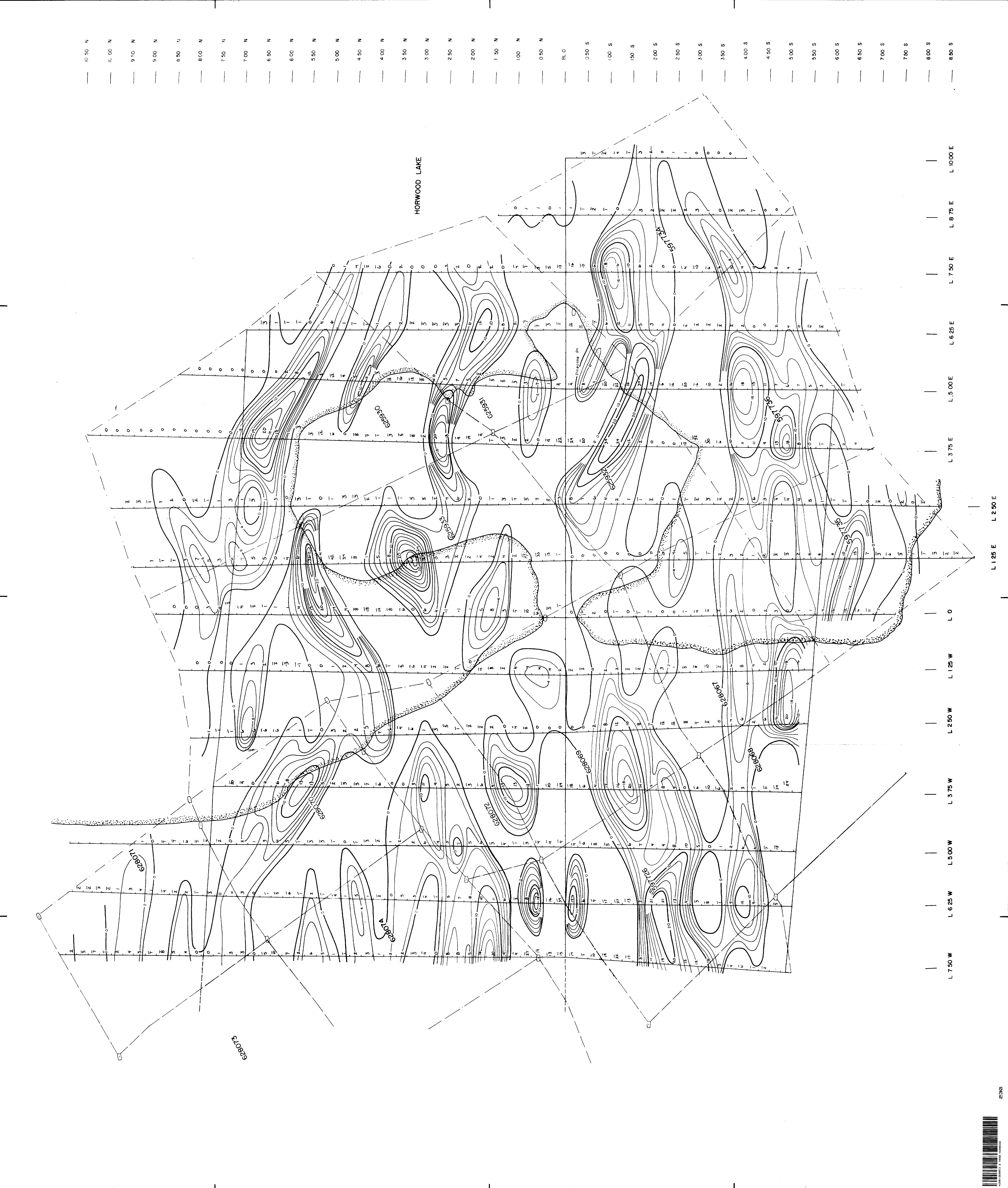
GOLD FIELDS MINING	
Project:	PINECONE POINT
Town:	Horwood
Area:	Foley, Ontario
Scale:	1:2500
Date:	April 1982
Sheet:	2 of 2
Contractor:	G.F.S.
Contract No.:	N.T.S. 42 B / 1



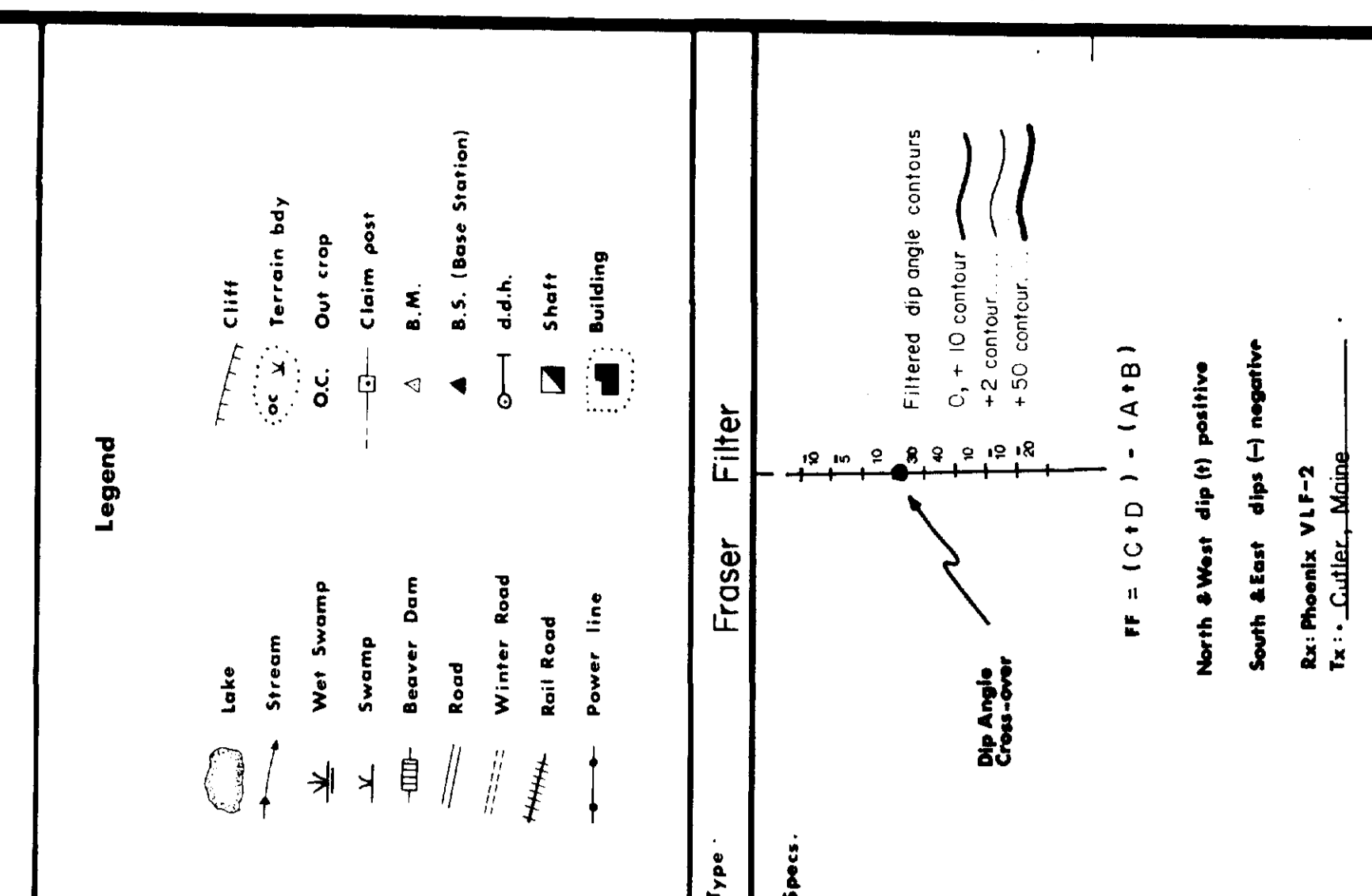
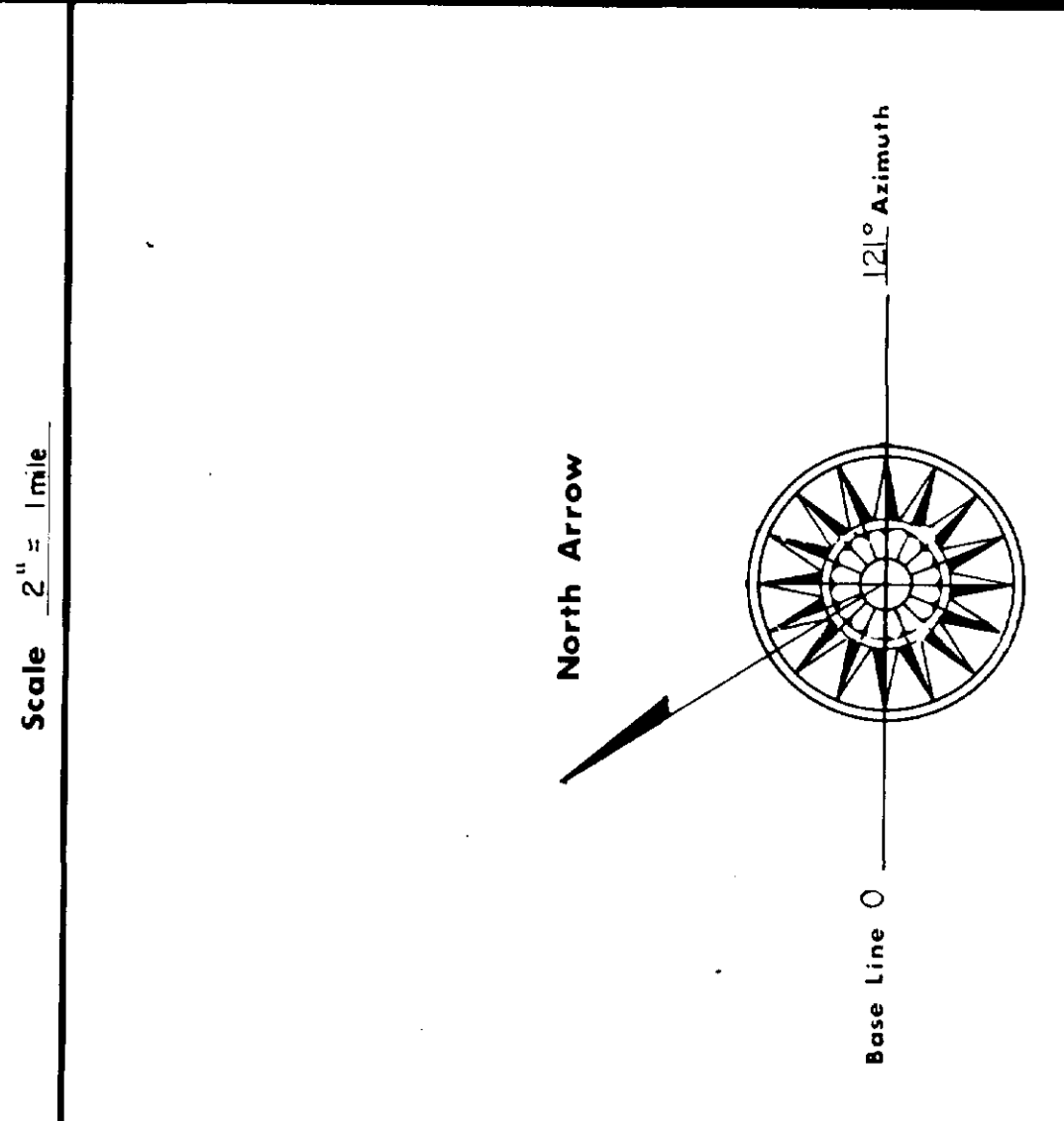
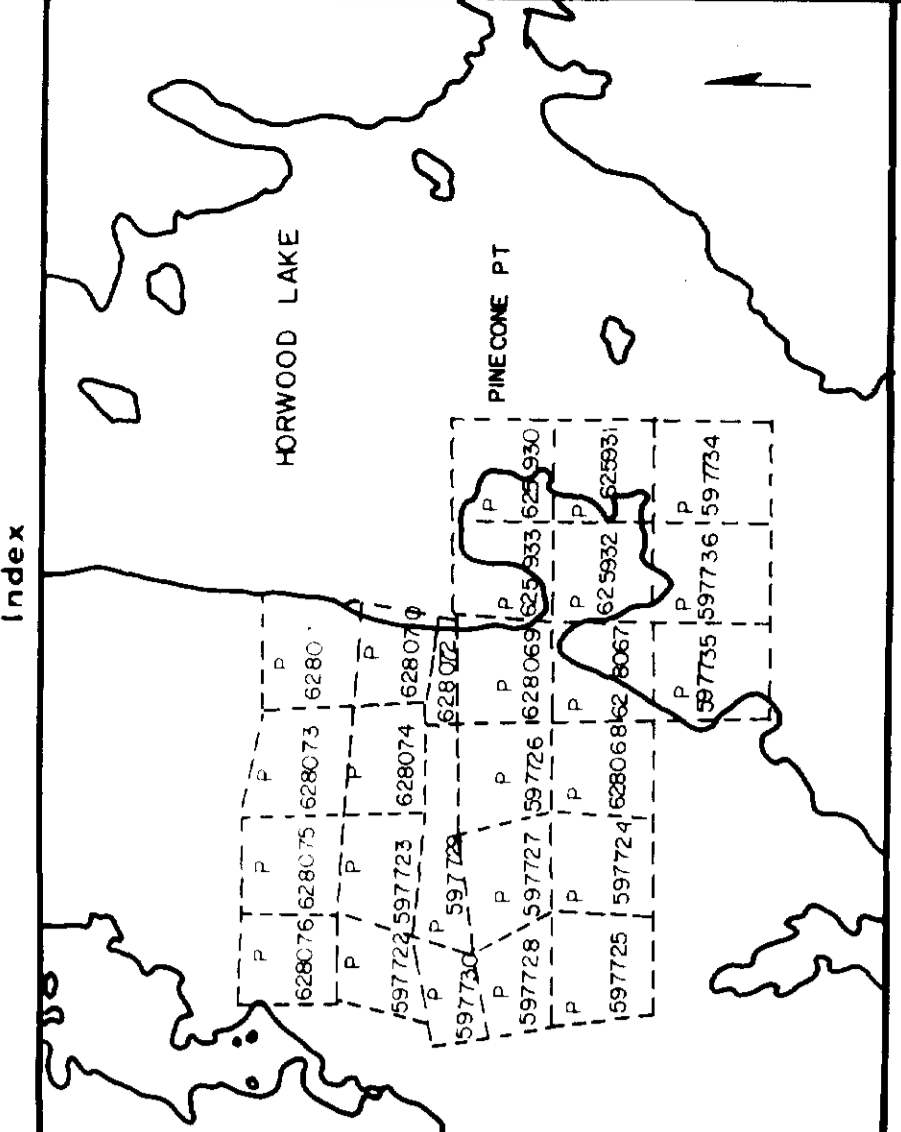
Latitude (N)	Longitude (W)
11.00 N	L 18.75 W
10.50 N	L 17.50 W
10.00 N	L 16.25 W
9.50 N	L 15.00 W
9.00 N	L 13.75 W
8.50 N	L 12.50 W
8.00 N	L 11.25 W
7.50 N	L 10.00 W
7.00 N	L 8.75 W
6.50 N	L 7.50 W
6.00 N	L 6.25 W
5.50 N	L 5.00 W
5.00 N	L 3.75 W
4.50 N	L 2.50 W
4.00 N	L 1.25 W
3.50 N	L 0.00 W
3.00 N	L 1.25 W
2.50 N	L 2.50 W
2.00 N	L 3.75 W
1.50 N	L 5.00 W
1.00 N	L 6.25 W
0.50 N	L 7.50 W
BL 0	L 8.75 W
0.50 S	L 10.00 W
1.00 S	L 11.25 W
1.50 S	L 12.50 W
2.00 S	L 13.75 W
2.50 S	L 15.00 W
3.00 S	L 16.25 W
3.50 S	L 17.50 W
4.00 S	L 18.75 W
4.50 S	L 20.00 W
5.00 S	L 21.25 W
5.50 S	L 22.50 W
6.00 S	L 23.75 W
6.50 S	L 25.00 W
7.00 S	L 26.25 W
7.50 S	L 27.50 W
8.00 S	L 28.75 W



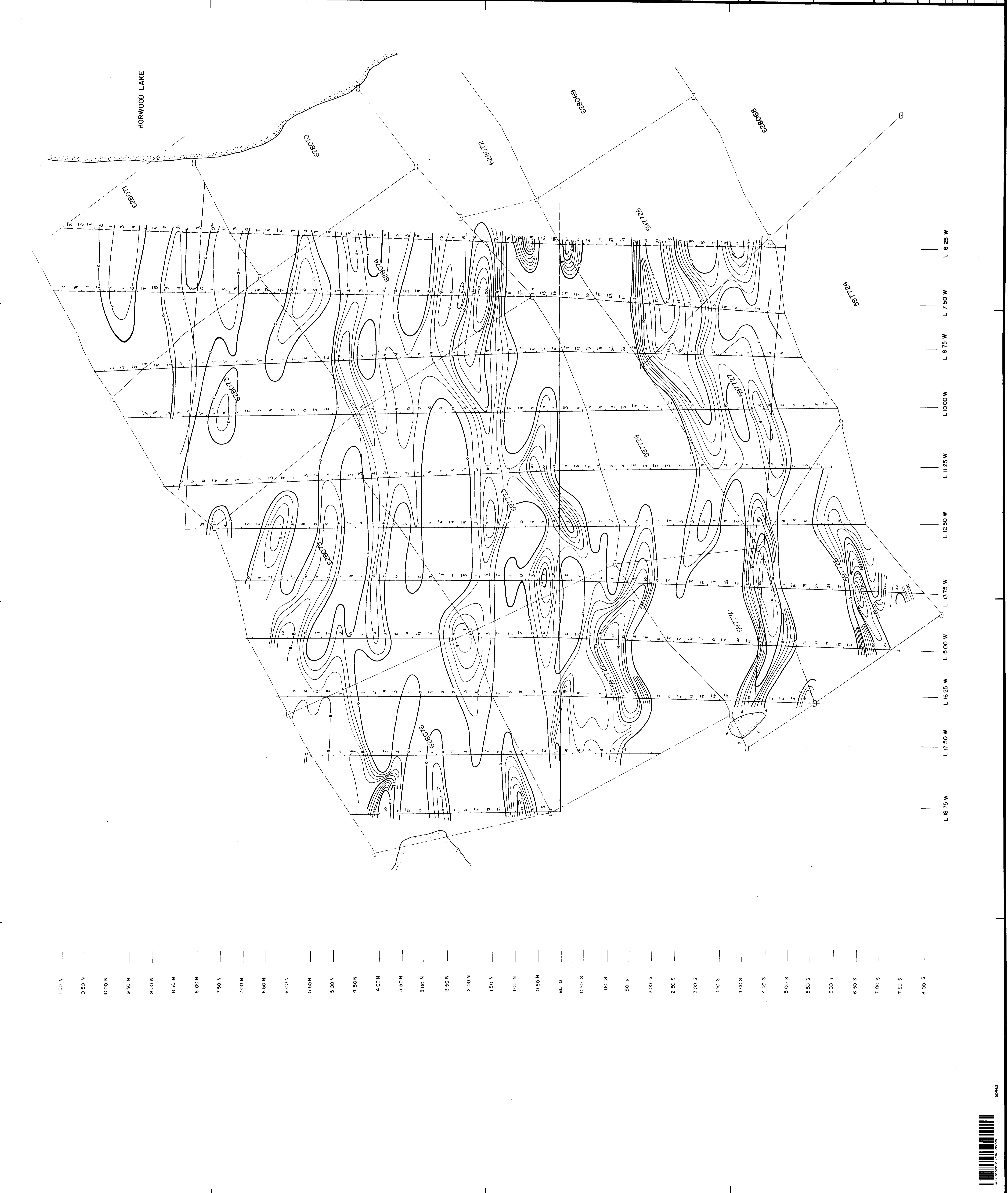
Total line	km	Total Readings	287
Metric	English		
Revisions			
<b>GOLD FIELDS MINING</b>			
Project PINECONE POINT			
Town Horwood			
Area Folger, Ont.			
Scale	1:2500	Map No.	FF-1
Date	April 1962	Sheet	1 of 2
Drawn by	G. Fox	Checked by	
Compared by		NTS	4B/1

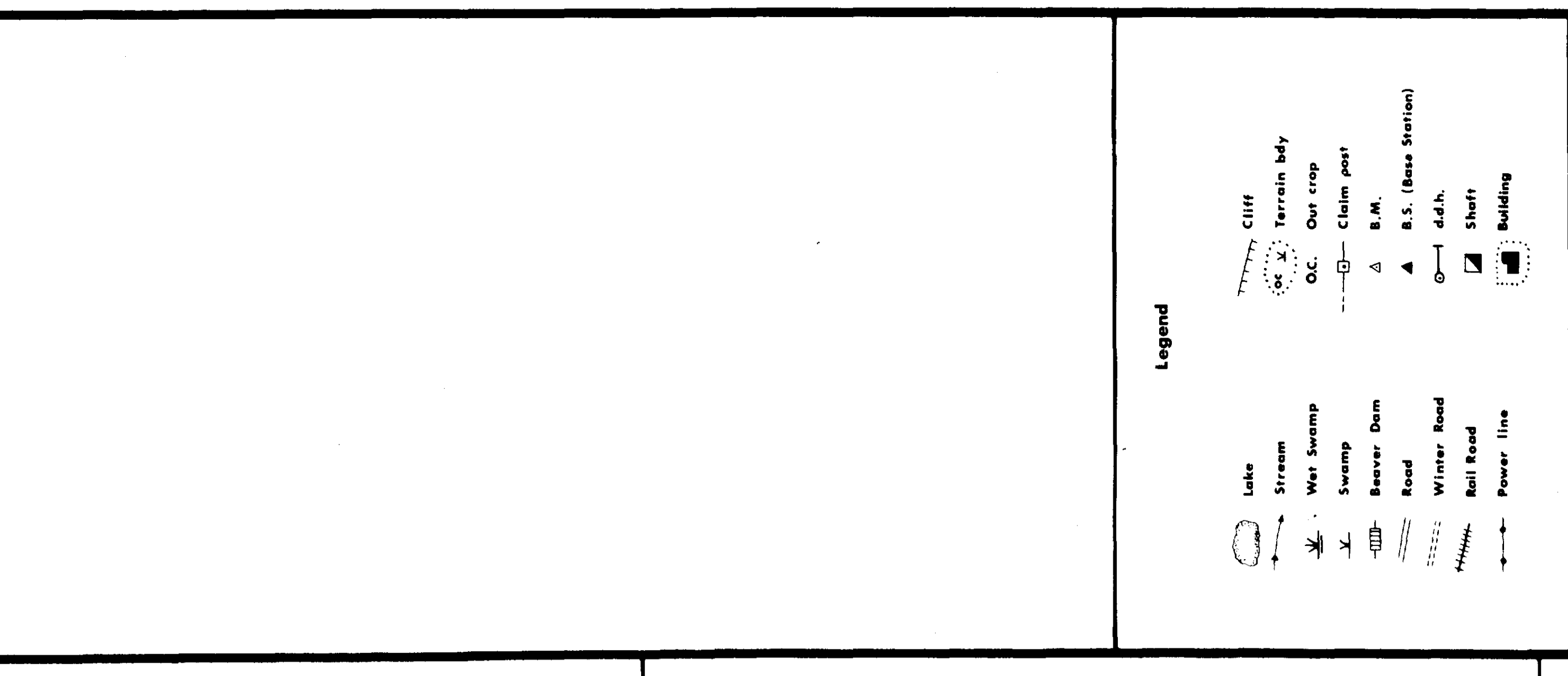
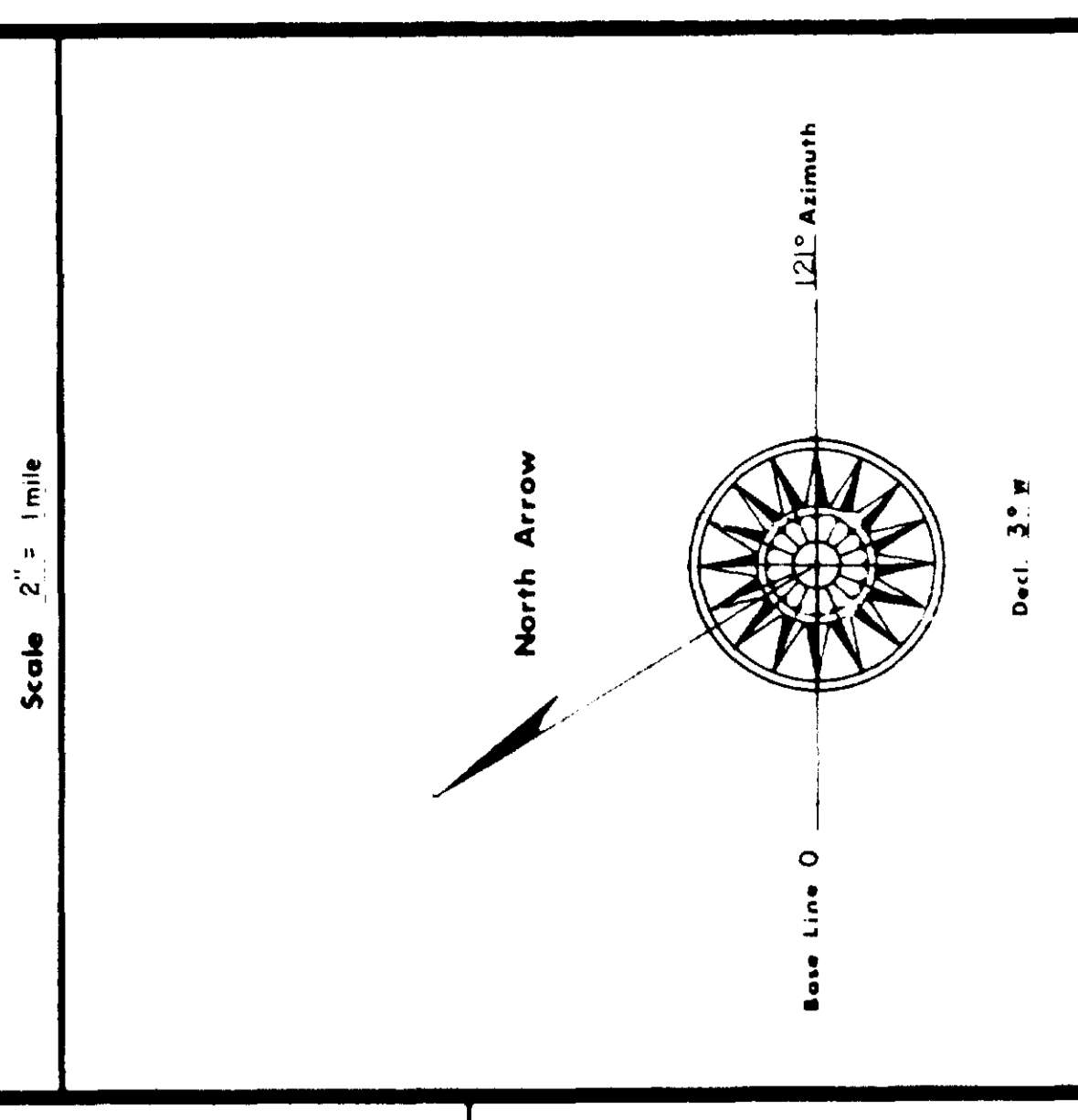
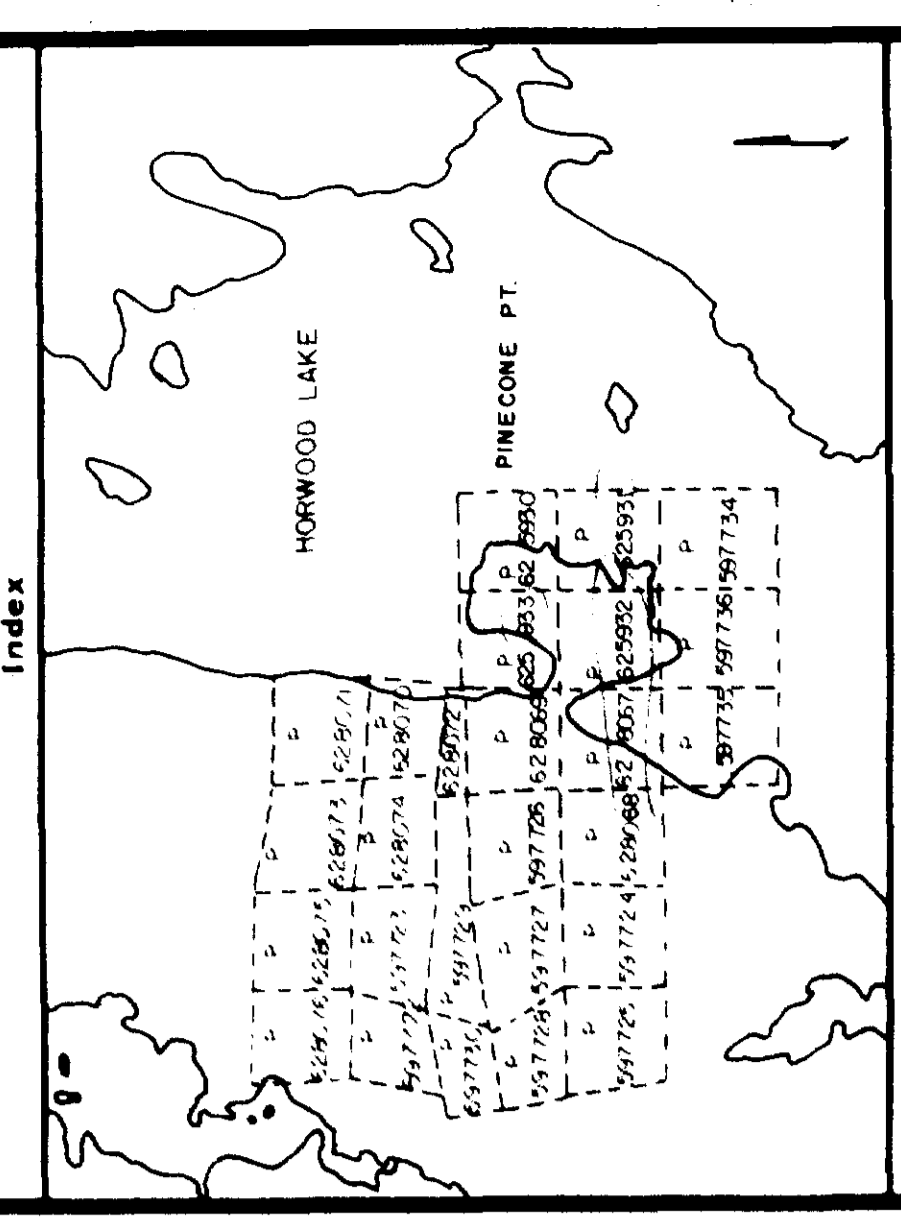






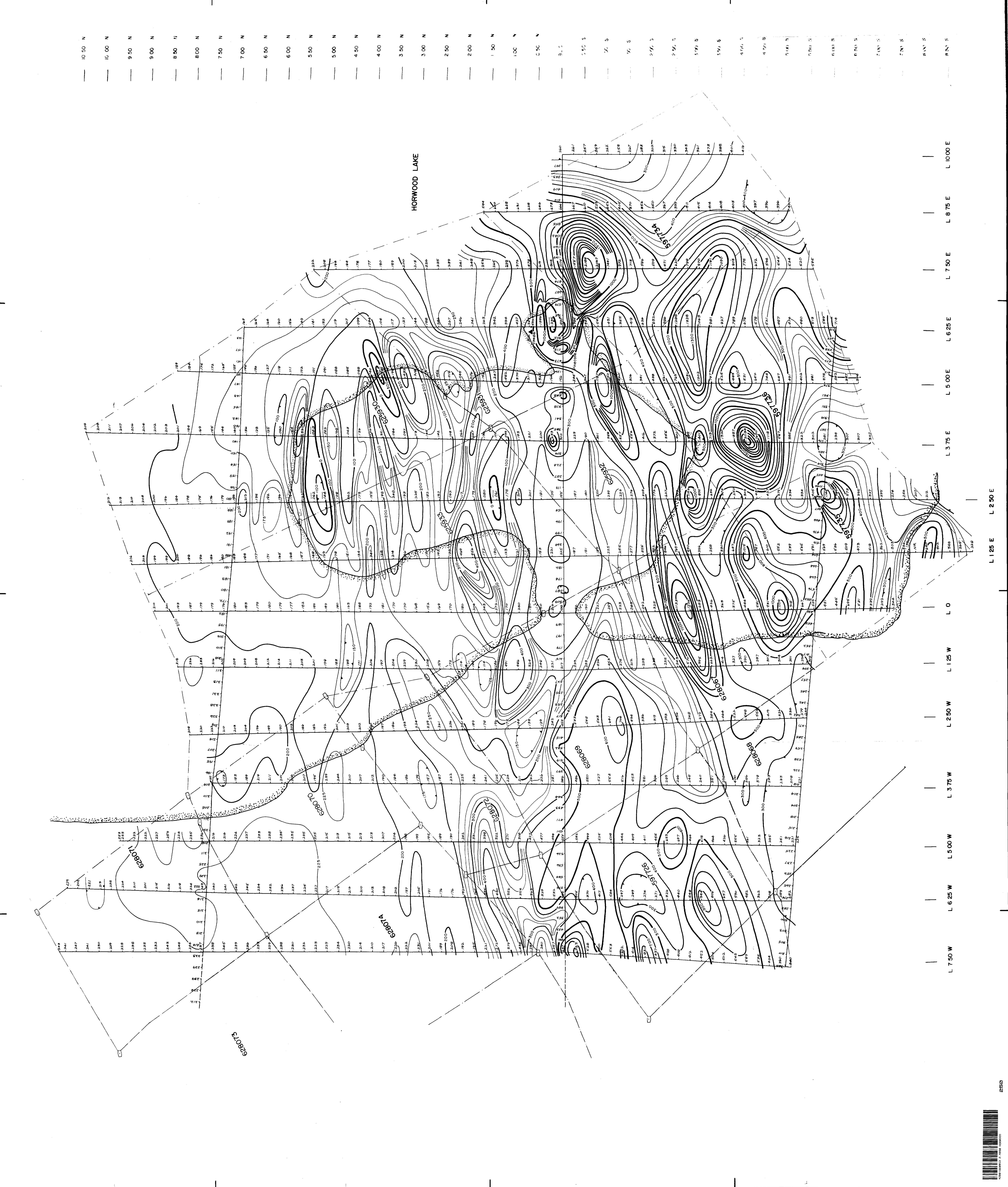
Total line		500
Metric		500
English		1640
Revisions		
Project		PINECONE POINT
Twp.		Horwood
Area		Foley, Ontario
Scale	1:2500	Map No. FF-2
Date	April 1982	2 of 2
Drawn by	G. Cox	
Checked by		
GOLD FIELDS MINING		

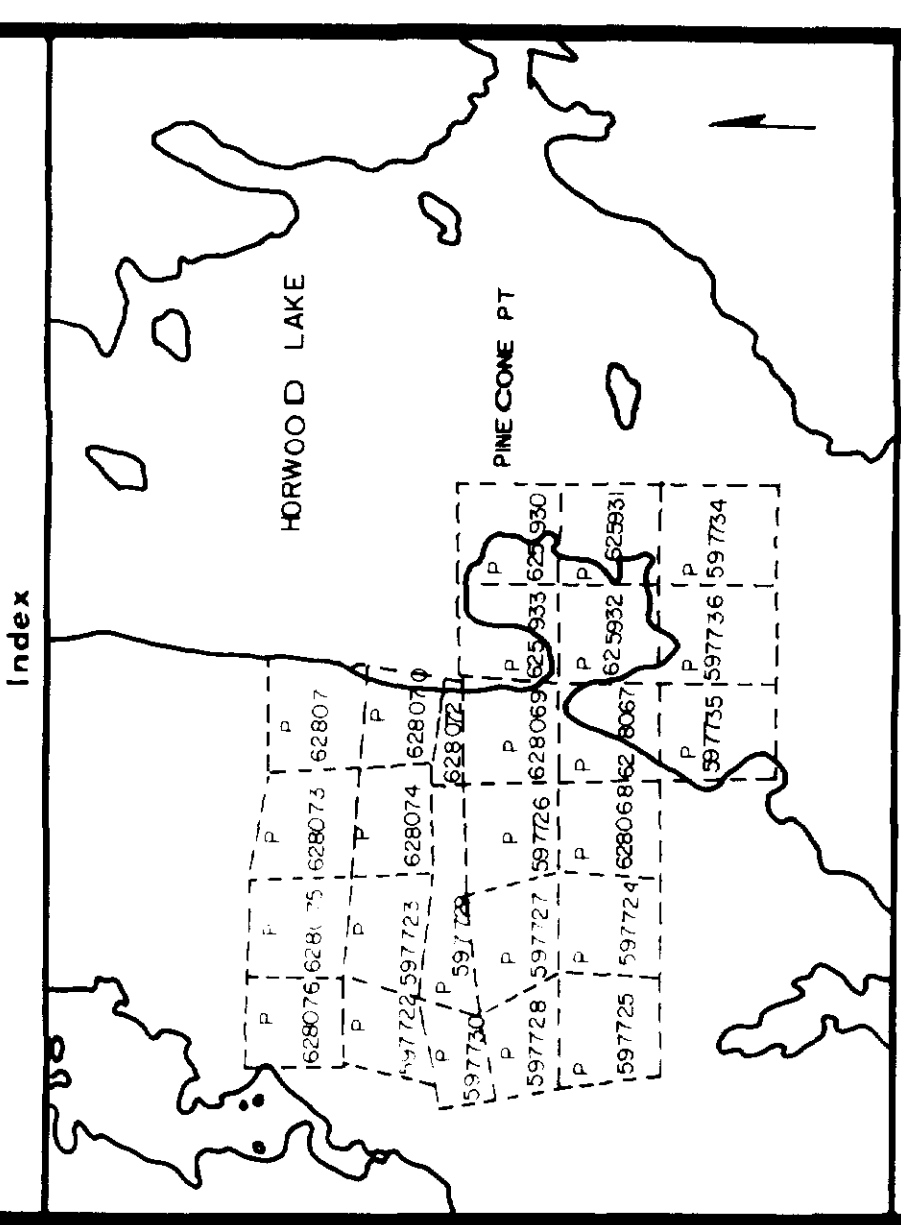




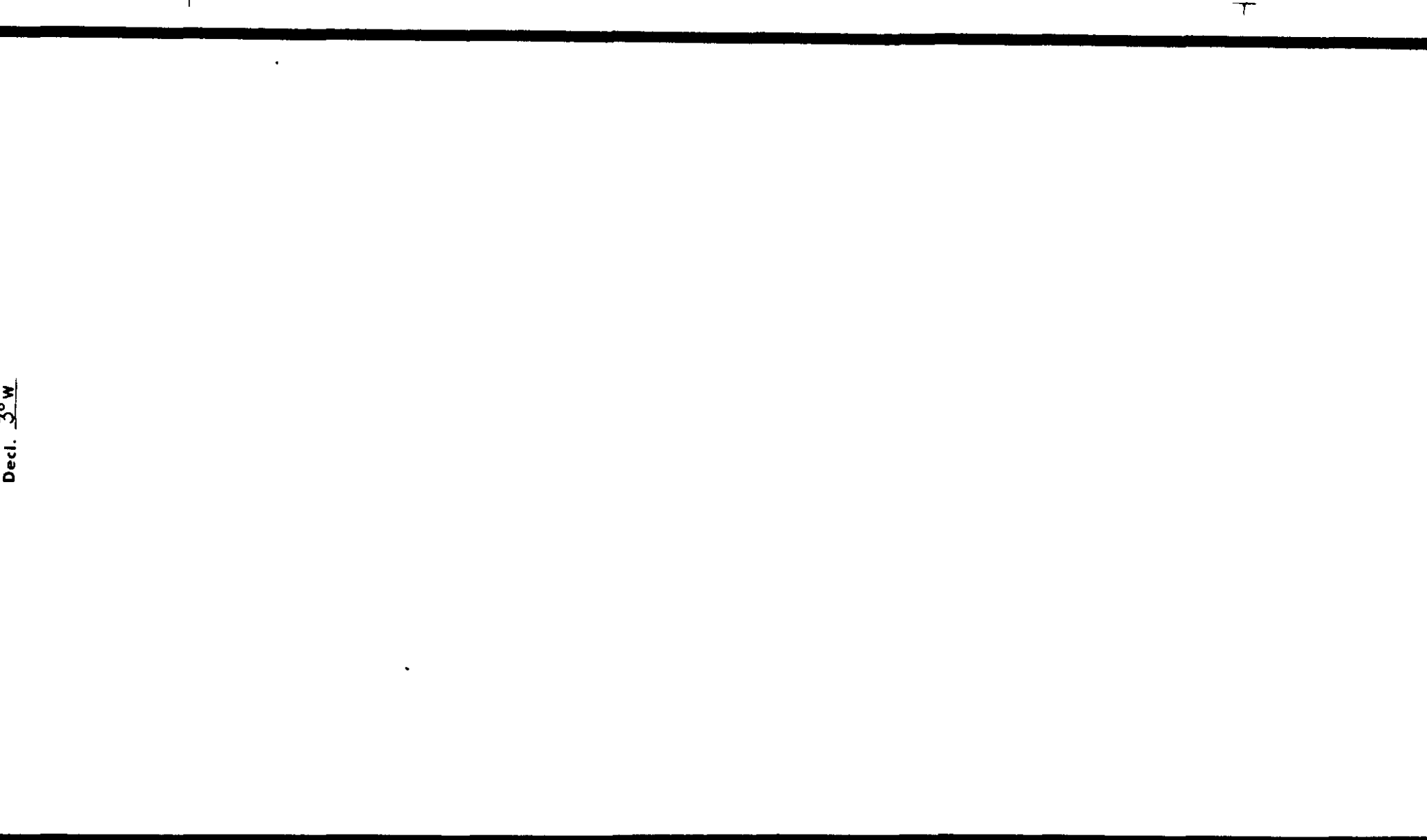
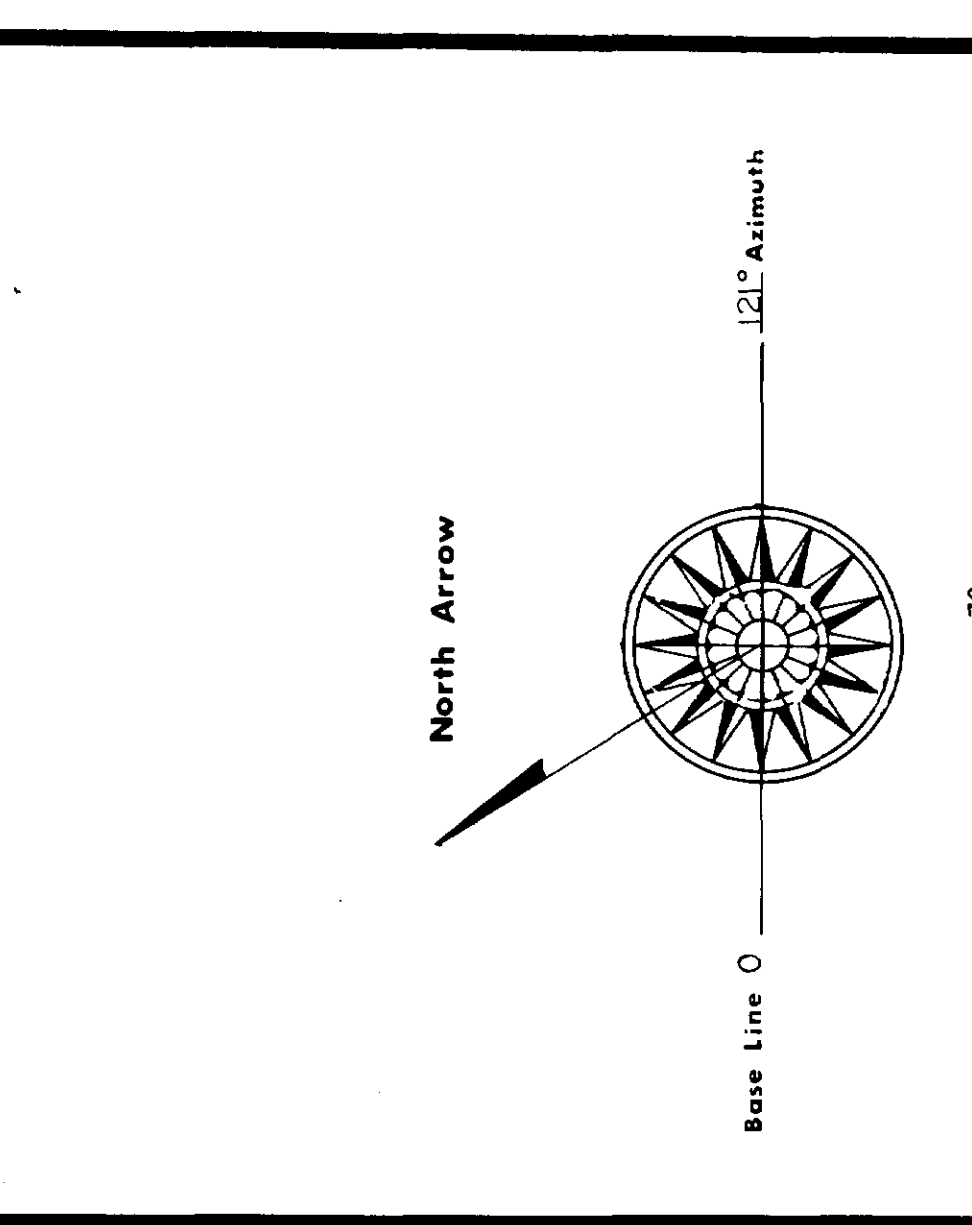
**MAGNETICS SURVEY**  
 Type: TYPE: PROTON PRECESSION TOTAL FIELD  
 INSTRUMENT: E.D.A. PPM-500, 5.01 gamma  
 TOTAL FIELD: ADD 59 000 GAMMAS  
 Base Station Location: 0-70 N / 6-15 E  
 Base Station Value: 594.88 Gamma  
 Base Station Recorder: E.D.A., PPM-400  
 Base Station Interval: 20 seconds  
 Operator: D. Harbuth / Mar 19  
 Operator: D. Glendon / Mar. 22, 23, 25, 28  
 Contour interval: 25 gamma  
 500 gamma contour  
 1000 gamma contour  
 Depression

Total line 25.17 Km. Total Readings 1014	
Metric	0 100 200 300 400 500
English	0 100 200 300 400 500
<b>GOLD FIELDS MINING</b>	
Project	PINECONE POINT
Twp.	Honwood
Ave.	Folysgt., Ontario
Scale	1:2500
Date	April 1988
Contract	G.F.M.
Map No.	MAA8-1
Sheet	1 of 2
Compiled by	M.F.S. 82/1/1





Scale 2" = 1 Mile



**MAGNETICS SURVEY**  
 Type: TYPE 1 PROTON PRECESSION TOTAL FIELD  
 INSTRUMENT: E.D.A. PPM-300, ± 0.1 gamma  
 TOTAL FIELD: ADD 59 000 GAMMAS  
 Base Station Location: 0+70 N / 6+15 E  
 Base Station Value: 59488 Gammas  
 Base Station Recorder: E.D.A., PPM-400  
 Base Station Interval: 20 seconds  
 Oper/dates: D. Gliddon / Mar. 23, 26, 28  
 Contour interval: 25 gammas  
 100 gamma contour  
 500 gamma contour  
 Depression

Total line 13.99 Km. Total Reading 683	
Metric	0 100 200 300 400 500
English	0 100 200 300 400 500
<b>GOLD FIELDS MINING</b>	
Project: PINECONE POINT	
Twp.: Horwood	
Area: Foleypt, Ontario	
Scale	1:2500
Date	April 1982
Grid by	G. E. H.
Control by	
Map No.	AMG-1
2 of 2	
M.T.S. 42 B / J	

