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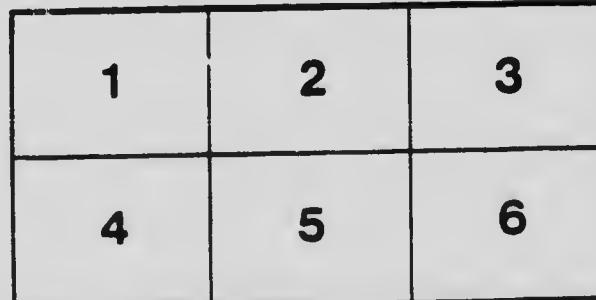
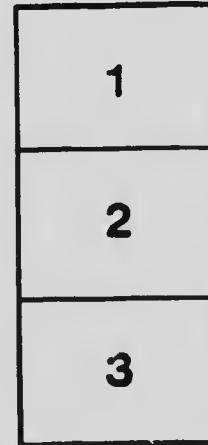
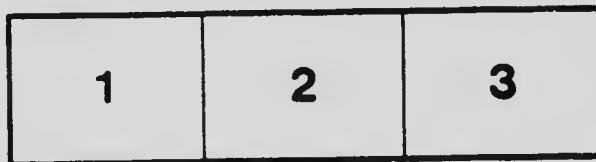
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MINISTER.

MINES BRANCH  
EUGENE HANLEY, PH.D., DIRECTOR.

# Iron Ore Occurrences in Canada

VOL. I

## Maps

1917

- No. 106 Geological map, Austin Brook Iron-Bearing district, Gloucester Co., New Brunswick.  
" 107 Magnetometric map, Austin Brook Iron Bearing district, Gloucester Co., New Brunswick.  
" 185 Magnetometric map, Blairton Iron mine, Peterborough Co., Ont.  
" 185a Geological map, Blairton Iron mine, Peterborough Co., Ont.  
" 186 Magnetometric map, Belmont Iron mine, Peterborough Co., Ont.  
" 186a Geological map, Belmont Iron mine, Peterborough Co., Ont.  
" 190 Magnetometric map, Coehill and Jenkins Iron Ore Deposits, Hastings Co., Ont.  
" 190a Geological map, Cochill and Jenkins Iron Ore Deposits, Hastings Co., Ont.  
" 191 Magnetometric map, Iron Ore Deposits at Bessemer, Hastings Co., Ont.  
" 191a Geological map, Iron Ore Deposits at Bessemer, Hastings Co., Ont.  
" 192 Magnetometric map, Rankin, Childs and Stevens Iron Ore Deposits, Hastings Co., Ont.  
" 192a Geological map, Rankin, Childs and Stevens Iron Ore Deposits, Hastings Co., Ont.  
" 205 Magnetometric map, Moose Mountain Iron-bearing district, Deposits No. 1 to 7 (incl.) Sudbury district, Ont.  
" 206 Magnetometric map, Moose Mountain Iron-bearing district, Northern portion Deposit No. 2, Sudbury district, Ont.  
" 207 Magnetometric map, Moose Mountain Iron-bearing district, Deposits No. 8, 9, and 9a, Sudbury district, Ont.  
" 208 Magnetometric map, Moose Mountain Iron-bearing district, Deposit No. 10, Sudbury district, Ont.  
" 208a Magnetometric map, Moose Mountain Iron-bearing district, Eastern Portion Deposit No. 11, Sudbury district, Ont.  
" 208b Magnetometric map, Moose Mountain Iron-bearing district, Western Portion Deposit No. 11, Sudbury district, Ont.  
" 208c General Geological map, Moose Mountain Iron-bearing district, Sudbury district, Ont.  
" 3\* Magnetometric map, Atikokan Iron-bearing district, Atikokan mine and vicinity, Rainy River district, Ont.  
" 340a Geological map, Atikokan Iron-bearing district, Atikokan mine and vicinity, Rainy River district, Ont.  
" 443 Magnetometric map, Bristol mine, Pontiac Co., Que.

Can

DEPARTMENT  
MINES B

HON W.B. NANTEL, MINISTER, A.P.  
EUGENE HAANEL, I.

GEOLOGICAL MAP

LEGEND

- [Light gray box] Superficial deposits (peat, gravel and sand)
- [Dark gray box] Outcrop of iron ore
- [Hatched box] Probable ore area indicated by magnetometric survey
- [Dashed box] Quartz porphyry
- [Cross-hatched box] Diabase
- [Solid line] Roads and buildings
- [Dashed line] Railway
- [Wavy line] Swamp
- [Scale bar] Contours, interval 10 feet.
- [Bridge icon] Bridges



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HON. W. B. NANTEL, MINISTER; A. P. LOW,  
EUGENE HAANEL, PH.D.

MAGNETOMETRIC MAP

LEGEND

Isodynamic lines of the vertical magnetic intensity

Positive Intensity

Magnetic Reading greater than  $60^\circ$



$50^\circ$  to  $60^\circ$



$40^\circ$  to  $50^\circ$



$20^\circ$  to  $40^\circ$



$0^\circ$  to  $20^\circ$

Negative Intensity

Magnetic Reading  $0^\circ$  to  $-20^\circ$



$-20^\circ$  to  $-40^\circ$



greater than  $-40^\circ$

Constant of Instrument = 0.9 H



Outcrop of ore



Swamp



Roads and buildings



Railway



Contours, interval 10 feet



Bridges

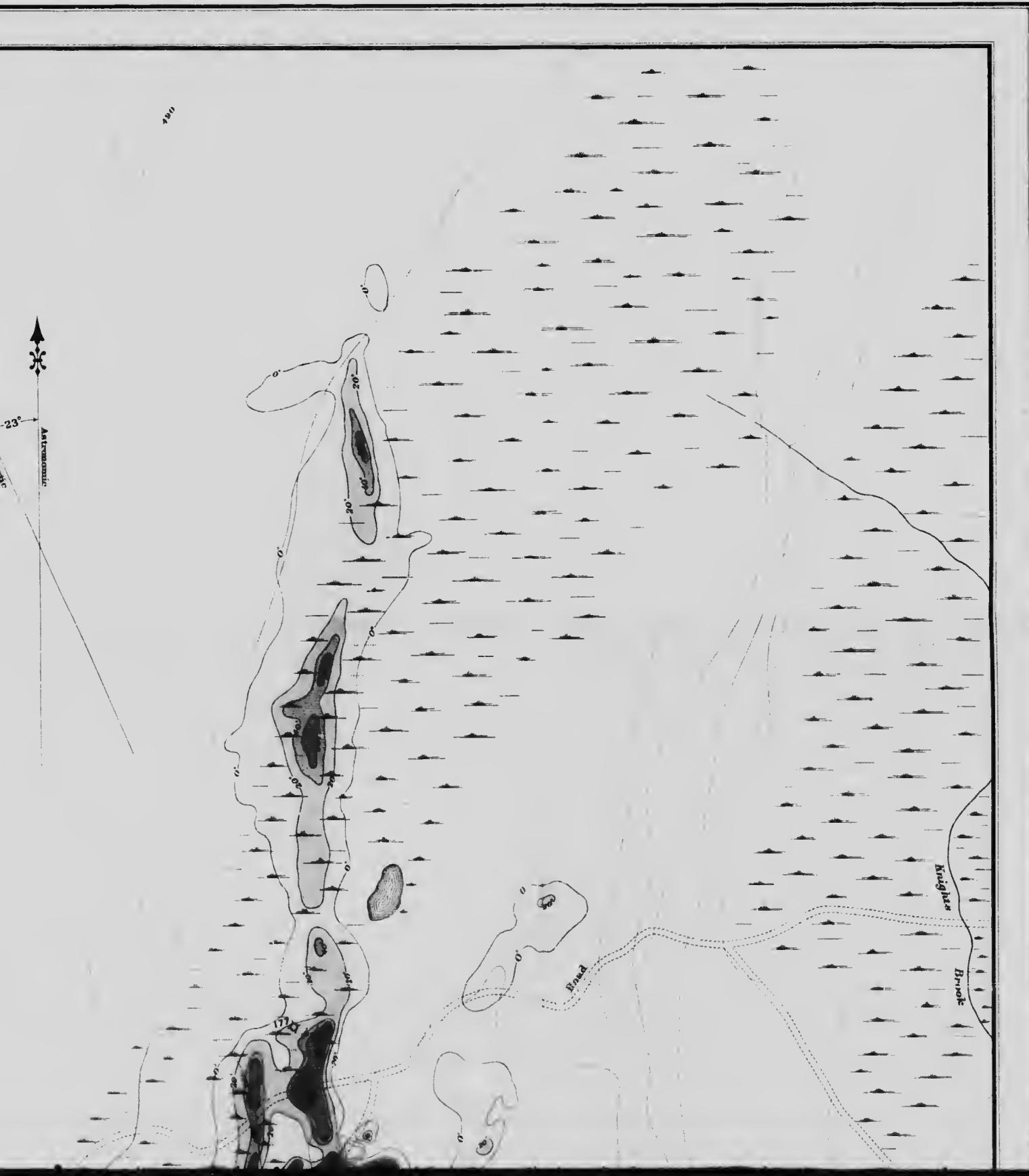


Reference posts



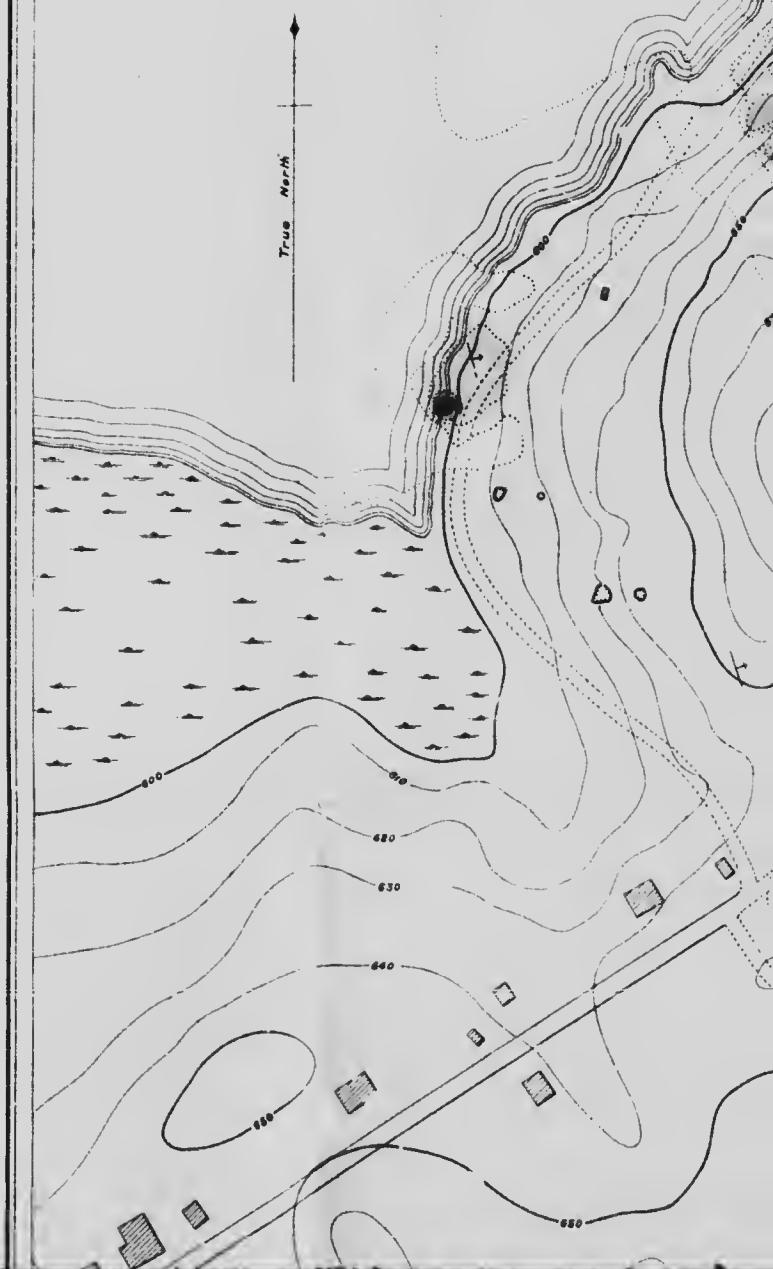
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GEODESIC BRANCH

MR. A.P. LOW, LL.D., DEPUTY MINISTER  
MR. J. M. BANDEL, PH.D., DIRECTOR



## MAGNETOMETRIC MAP

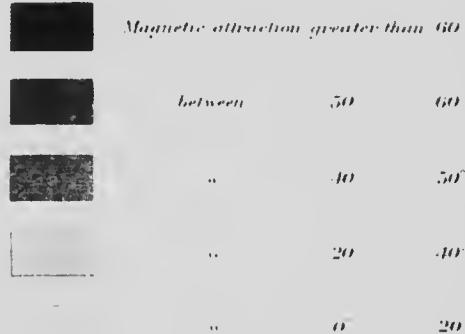
C R O W



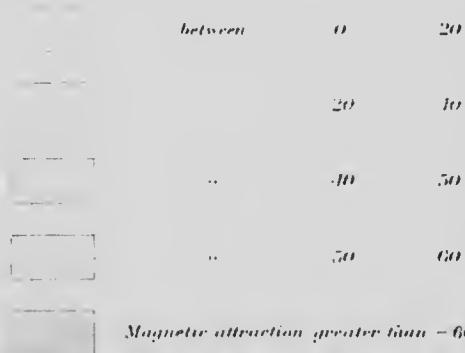
## LEGEND

*Isodynamic lines of the vertical  
magnetic intensity*

## Positive Intensity



## Negative Intensity



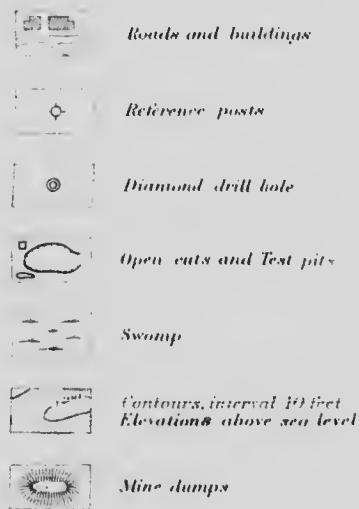
Canada

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MINES BRANCH

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EDWARD HAANEL, PH.D., DIRECTOR



LEGEND



Canada  
DEPARTMENT  
MINES

HON. ROBERT ROGERS, MINISTER; A.  
EUGENE HAANEL, D.

GEOLOGICAL MAP

C R O W

True North

LEGEND

Drift-covered area



Area within which Magnetite  
is likely to occur, indicated  
by Magnetometric Survey



Cambro-Silurian limestone  
and conglomerate



Diorite (Archean)



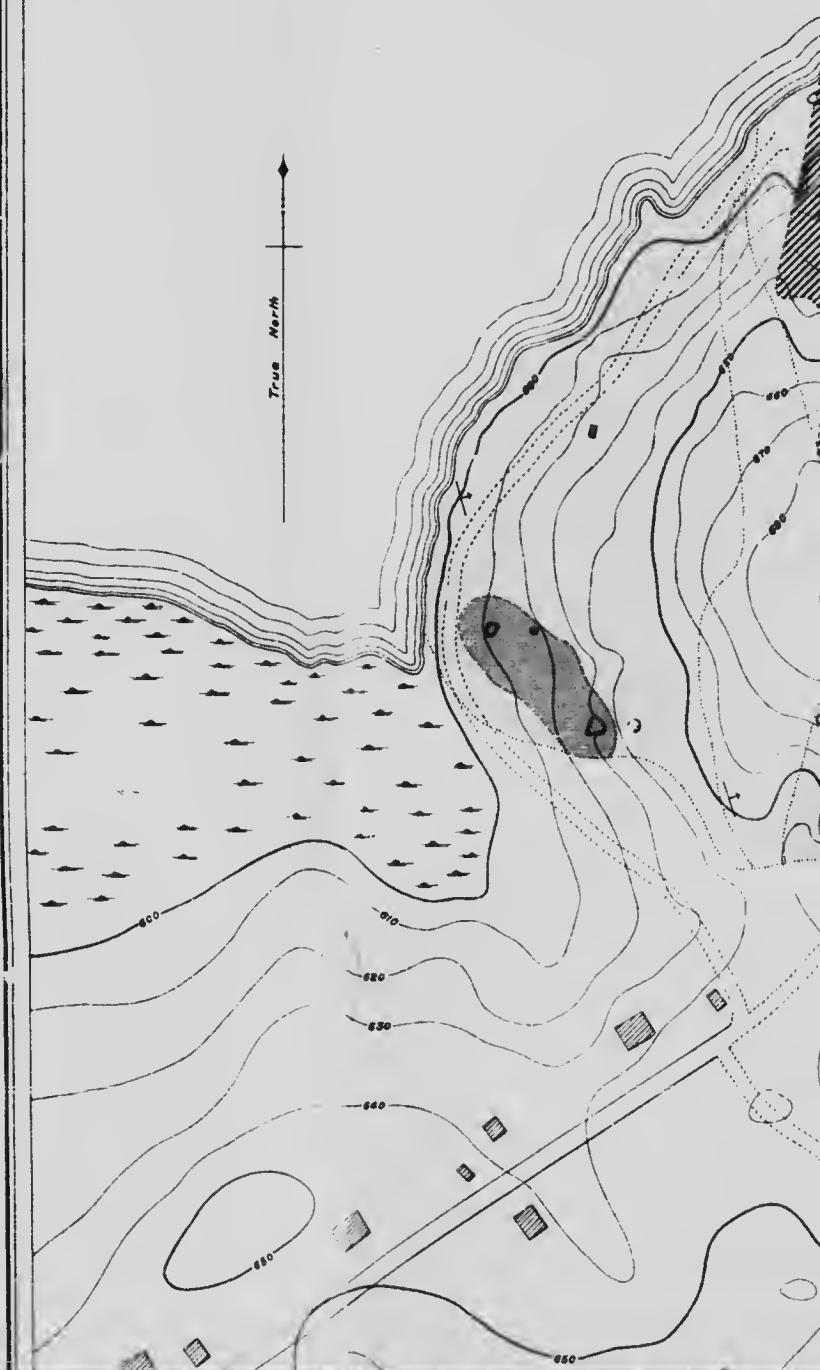
Crystalline limestone



Porphyritic hornblende and  
chlorite schist



Strike and dip



Canada  
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MINISTER: A.P. Low, LL.D., DEPUTY MINISTER  
E. Haanel, Ph.D., DIRECTOR

L A K E



LEGEND

-  Roads and buildings
-  Reference posts
-  Diamond drill hole
-  Open cuts and Test pits
-  Swamps
-  Contours, interval 10 feet  
Elevations above sea-level
-  Mine dumps

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**LEGEND**

*Isodynamic lines of the vertical magnetic intensity*

**Positive Intensity**

[Solid black square]	Magnetic attraction greater than 60°		
[Dark gray square]	between	50°	60°
[Medium gray square]	"	-10°	50°
[Light gray square]	"	20°	30°
[Very light gray square]	"	0°	20°

**Negative Intensity**

[Light gray square]	between	0°	20°
[Medium gray square]	"	20°	40°
[Dark gray square]	"	40°	50°

*Constant of Instrument 10 H*

*Magnetic declination about 15° West*

**LEGEND**

*Roads and buildings*

*Reference posts*

*Railways*

*Bridges*

*Diamond drill hole*

*Open cuts and Test pits*

*Stripings*

*Swamps*

*Contours, interval 10 feet  
Elevations above sea level*

*Mine dumps*

*Trenches*

H. E. Baine, Chief Draughtsman  
 L. H. S. Pereira, Draughtsman

**BELMONT IRON MINE**  
**LOT 19, CON. I**  
**TOWNSHIP OF BELMONT**  
**PETERBOROUGH COUNTY**  
**ONTARIO**

Scale 1:60 - 200' to 1 Inch

NO. 186

Magnetometric Survey  
 B. P. Haanel 1905  
 Topography  
 E. Lindeman 1911  
 Assisted by W. M. Morrison

**Canada**  
**DEPARTMENT OF MINES**  
**MINES BRANCH**  
 Hon. ROBERT ROGERS, Minister, A. P. LOW, LL.D., Deputy Minister  
 EUGENE HAARL, Ph.D., Director

**GEOLOGICAL MAP**



**LEGEND**

[Light gray square]	Driftcovered area
[Solid black square]	Outcrop of Magnetite
[Hatched square]	Driftcovered area within which Magnetite is likely to occur, indicated by Magnetometric Survey
[Cross-hatched square]	Diorite (Archean)
[Dotted square]	Crystalline limestone
[Diamond pattern square]	Porphyritic schist

[Road and bridge symbol]	Roads and bridges
[Diamond symbol]	Reference posts
[Railway symbol]	Railways
[Bridge symbol]	Bridges
[Diamond symbol]	Diamond drill
[Open cut symbol]	Open cuts
[Oval symbol]	Stripes
[Swamp symbol]	Swamps
[Contour line symbol]	Contours, interval 10 feet Elevations above sea level
[Trench symbol]	Trenches
[Mine dump symbol]	Mine dumps

H. E. Baine, Chief Draughtsman  
 L. H. S. Pereira, Draughtsman

**BELMONT IRON MINE**  
 LOT 19, CON. I  
 TOWNSHIP OF BELMONT  
 PETERBOROUGH COUNTY  
 ONTARIO

Geology by  
 E. Lindeman 1911

NO. 1866

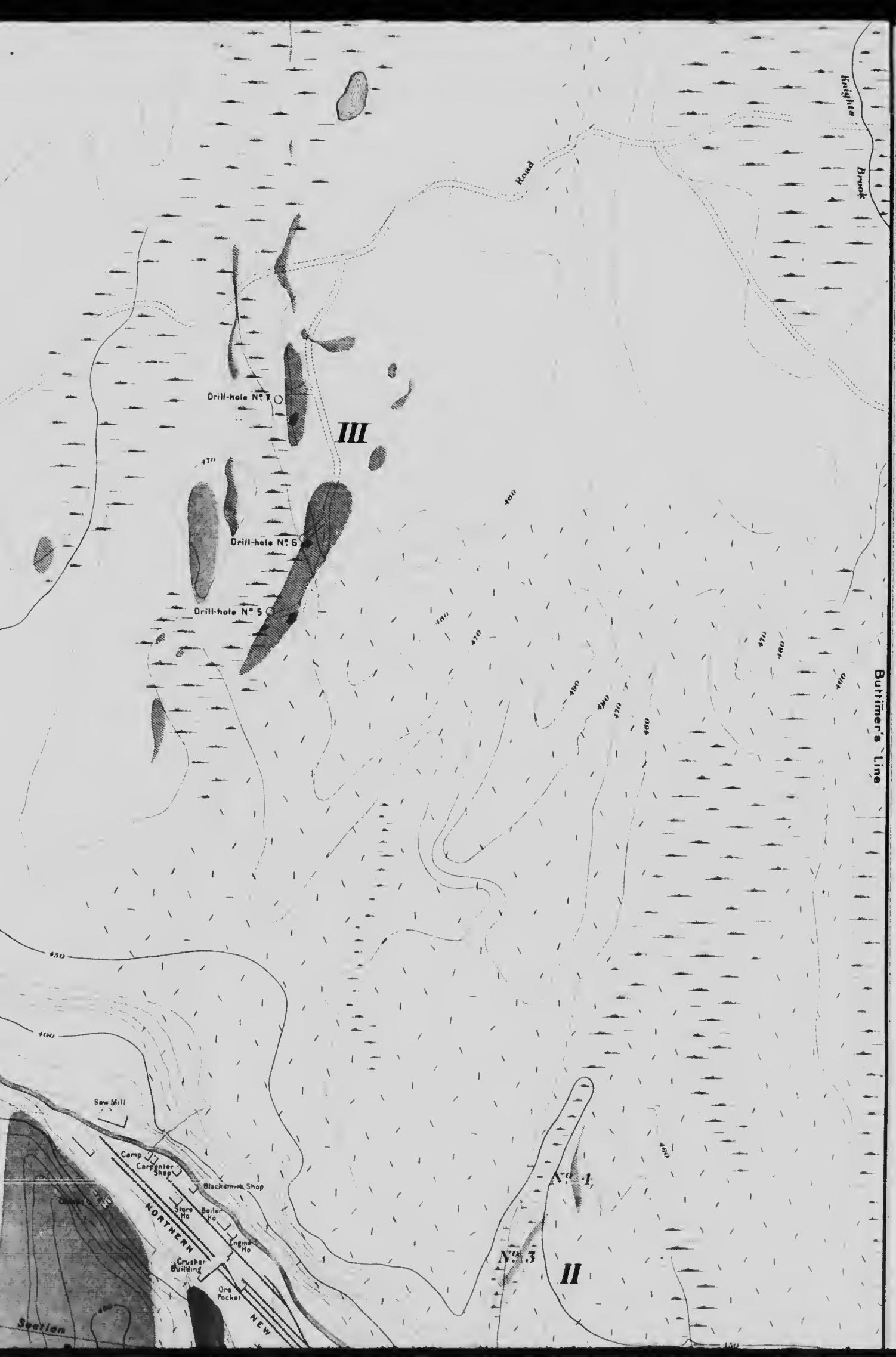
Scale 1 mile - 500' to 1 Inch



**Section along line A-B**

Horizontal and vertical scale, 400 feet to 1 inch





470  
460

Contours, interval 10 feet

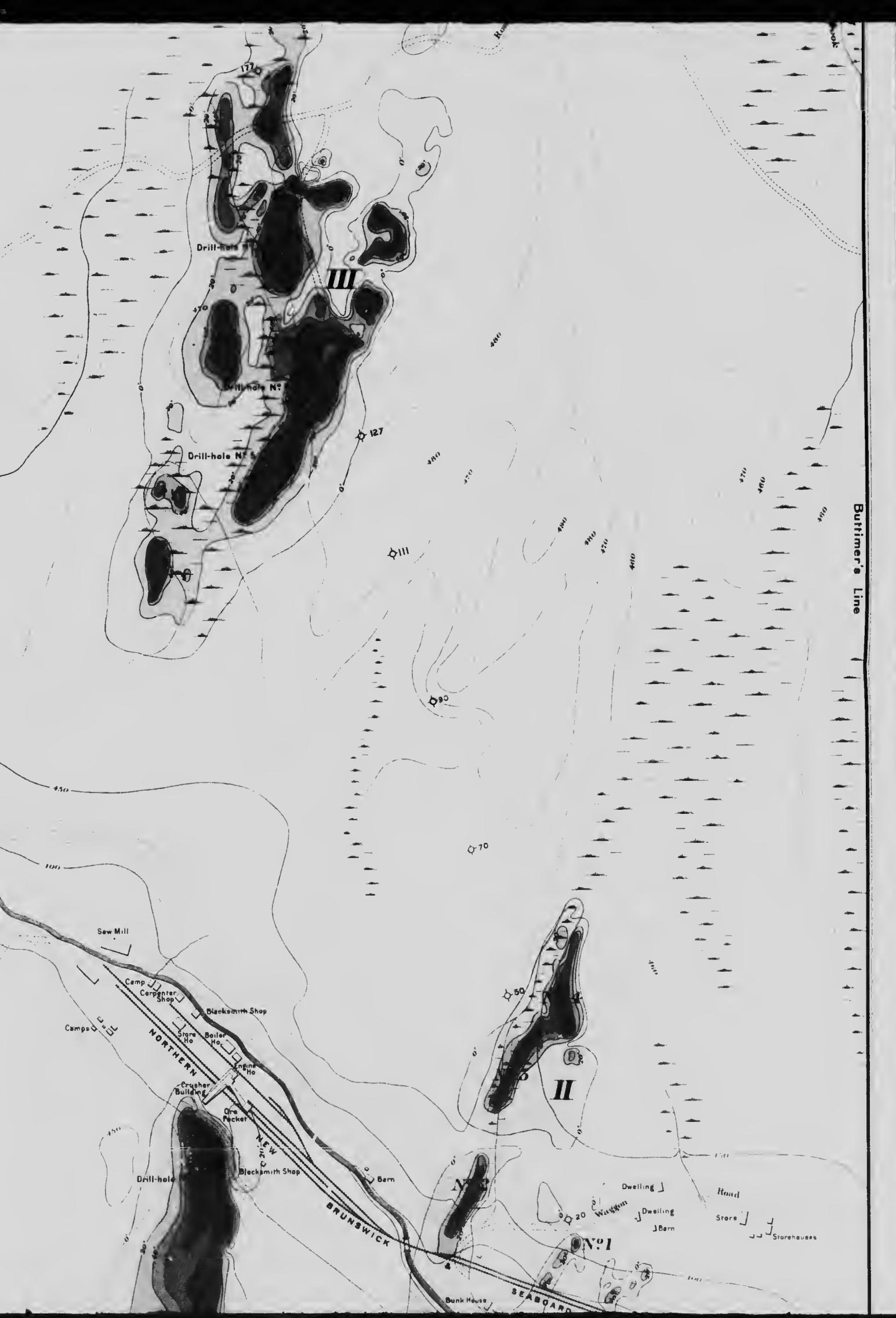
350  
340

Bridges

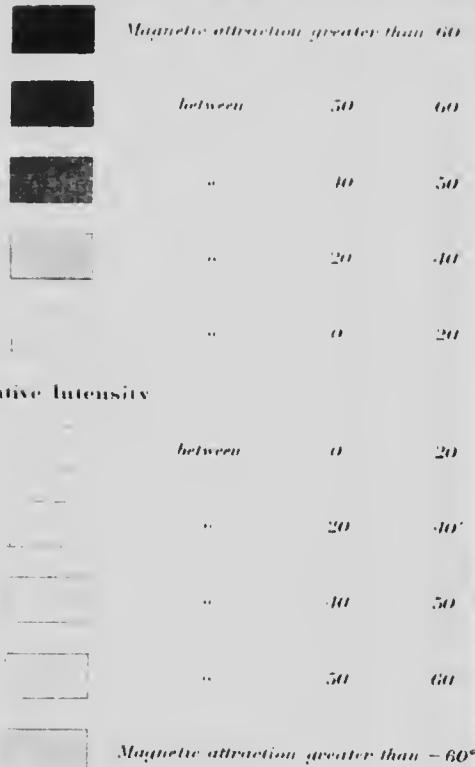
300  
290

Reference posts



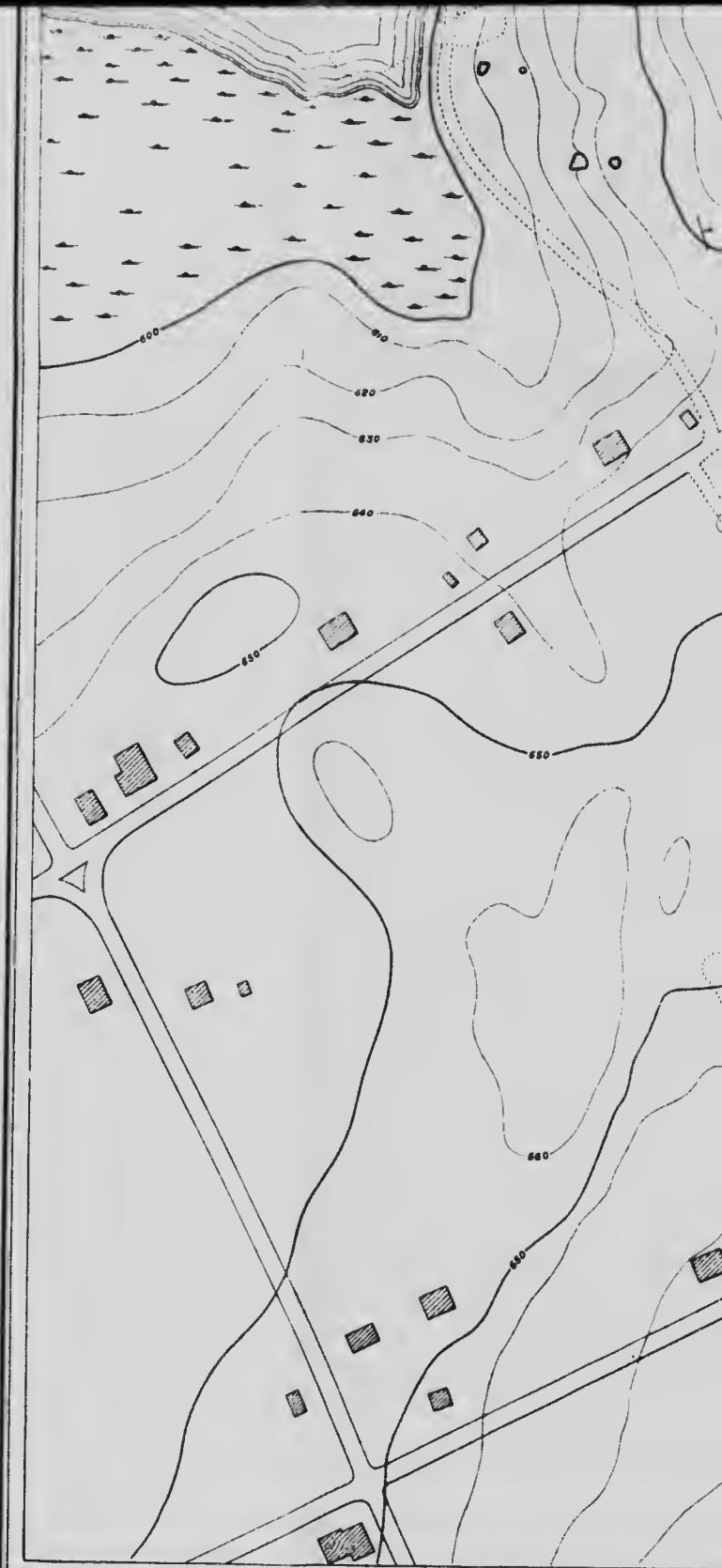


Positive Intensity



Constant of Instrument = 10 H

Magnetic declination about 13° West



H. E. Baine, Chief Draughtsman  
L. H. S. Pereira, Draughtsman

BLAIRT  
L  
TOWNS  
PETER

Scale



## LEGEND

- Roads and buildings
- Reference posts
- Diamond drill hole
- Open cuts and Test pits
- Swamp
- Contours, interval 10 feet  
Elevations above sea level
- Mine dams

**BLAIRTON IRON MINE**  
**LOT 8, CON. I**  
**TOWNSHIP OF BELMONT**  
**PETERBOROUGH COUNTY**  
**ONTARIO**

Scale 1 mi - 1000' to 1 Inch

Surveyed by  
*E. Lindeman 1911*  
 Assisted by *W. M. Morrison*

No. 185

LEGEND

*Drift-covered area*

 Area within which Magnetite is likely to occur, indicated by Magnetometric Survey

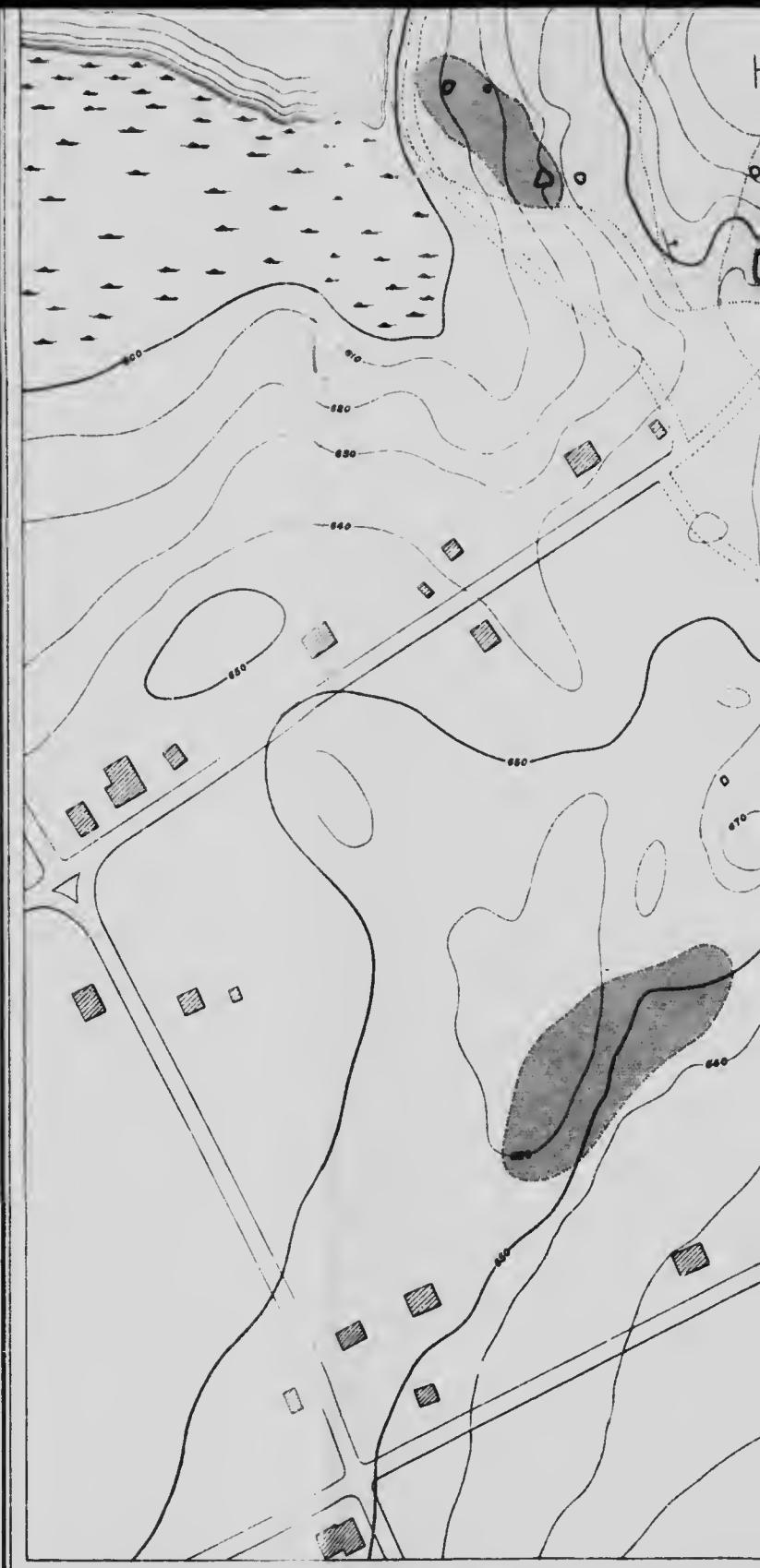
 Cambro-Silurian limestone and conglomerate

 Diorite. (Archean)

 Crystalline limestone "

 Porphyritic hornblende and chlorite schist "

 Strike and dip



H. E. Baine, Chief Draughtsman  
L. H. S. Pereira, Draughtsman

BLAIRTON

LOT 8,

TOWNSHIP

PETERBOROUGH

ONTARIO

Scale 1:62500



LEGEND

- Roads and buildings
- Reference points
- Diamond drill hole
- Open cuts and Test pits
- Swamps
- Contours, interval 10 feet  
Elevations above sea-level
- Mine dumps

MIRTON IRON MINE  
LOT 8, CON. I  
TOWNSHIP OF BELMONT  
ETERBOROUGH COUNTY  
ONTARIO  
Scale 1:250 - 200' to 1 Inch

Geology by  
E. Lindeman 1911

NO. 185 A

### **MAGNETOMETRIC MAP**



Canada

DEPARTMENT OF  
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HON. ROBERT ROGERS, MINISTER; A.P. LOW,  
EUGENE HAANEL, PH.D., D.Sc.



Canada  
DEPARTMENT OF MINES  
MINES BRANCH

HON. ROBERT ROGERS, MINISTER A P LOW, LL.D., DEPUTY MINISTER  
EUGENE HAANEL, PH.D., DIRECTOR





**LEGEND**

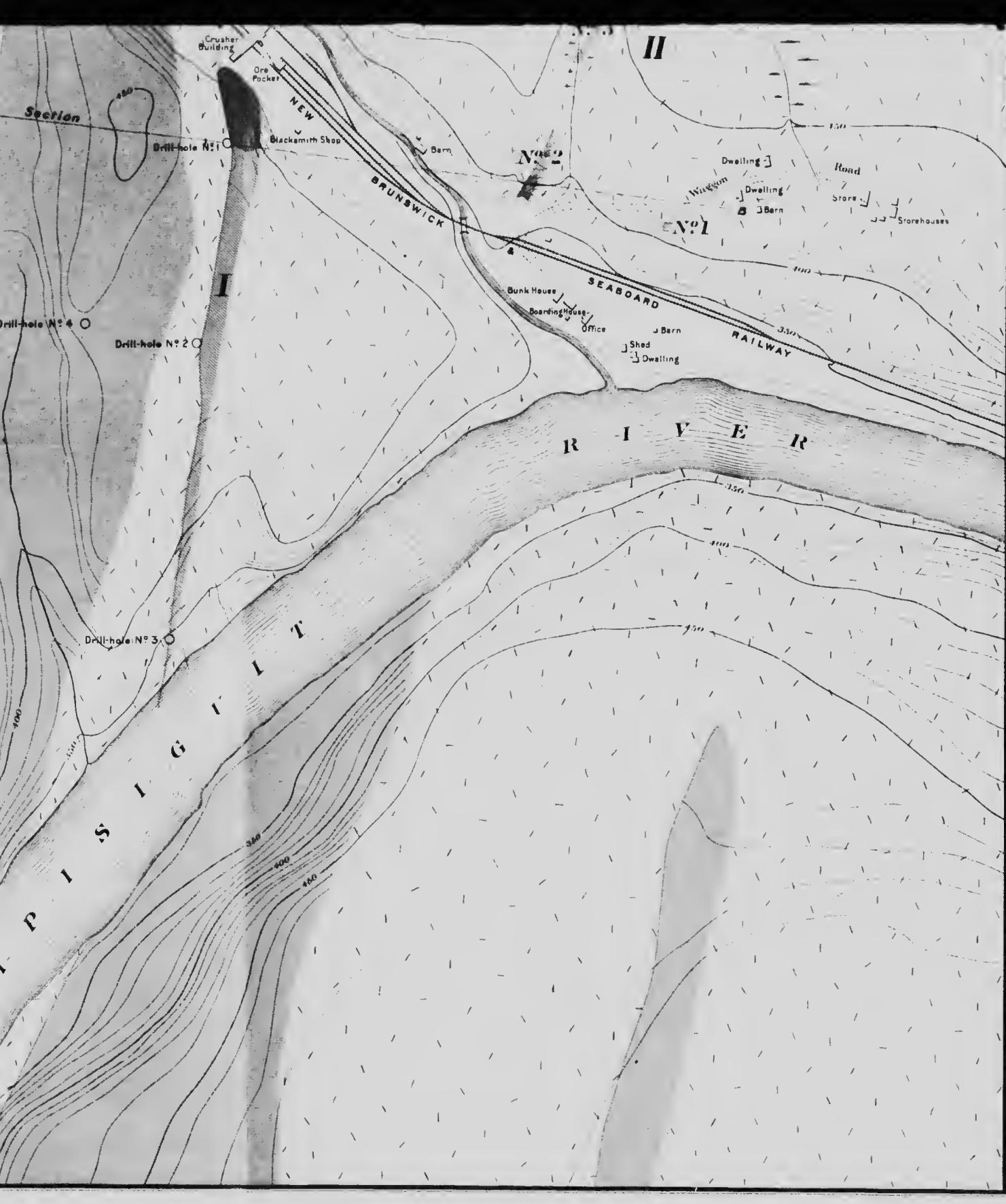
- |  |                                   |
|--|-----------------------------------|
|  | <i>Corner posts and Lot lines</i> |
|  | <i>Reference posts</i>            |
|  | <i>Railways</i>                   |
|  | <i>Diamond drill hole</i>         |
|  | <i>Open cuts and Test pits</i>    |
|  | <i>Shafts</i>                     |
|  | <i>Stripings</i>                  |
|  | <i>Pits filled with water</i>     |



H.F. Birnie, Chief Draughtsman

**AUSTIN  
IRON BEARING  
GLOUCESTER  
NEW BRUNSWICK**

Scale 400 Feet to 1 Mile



N° 106

**IN BROOK  
RING DISTRICT  
CESTER COUNTY  
/ BRUNSWICK**

*Surveyed by E. Lindeman, 1910  
Assisted by W. M. Morrison*

00 Feet to 1 Inch = 4800  
400 800

1200 Feet



H.E. Barron - Draughtsman

AUSTIN  
IRON BEARING  
GLOUCESTER  
NEW BRUNSWICK

Scale 400 Feet to 1 Mile  
Feet 400 300 200 100 0 100 200 300 400  
Metres 120 90 60 30 0 30 60 90 120



**IN BROOK  
RING DISTRICT  
STER COUNTY  
BRUNSWICK**

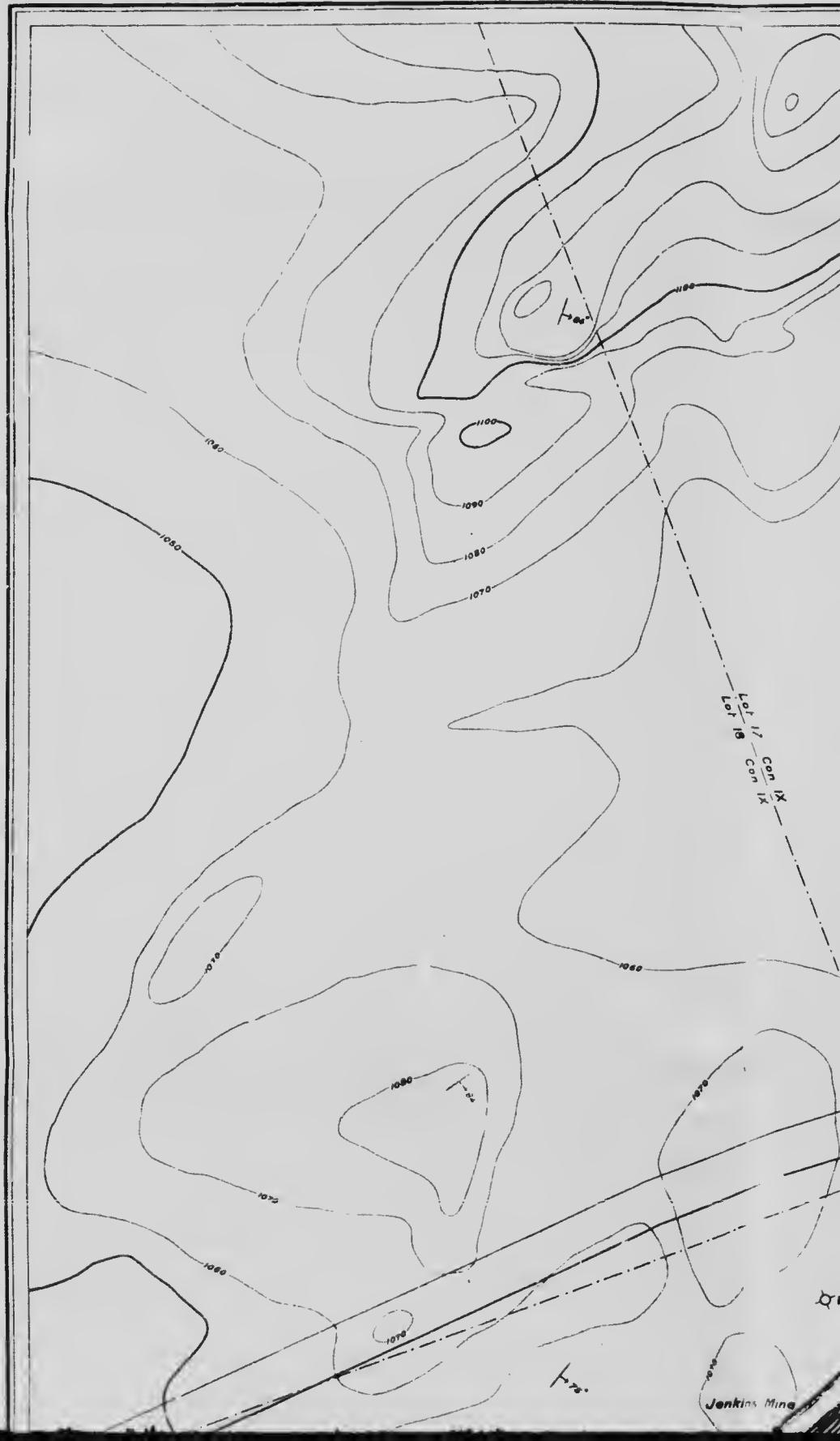
*Surveyed by E. Lindeman, 1910  
Assisted by W.M. Morrison*

N° 107

0 Feet to 1 Inch      1600  
100                    800

1200 Feet

### GEOLOGICAL MAP



### LEGEND

- Driftcovered area** [Solid black square]
- Outcrop of Magnetite** [Hatched square with diagonal lines]
- Syenite (Archaean)** [Hatched square with vertical lines]
- Crystalline limestone** [Hatched square with small squares]
- Schists and amphibolites** [Hatched square with diagonal lines]
- Strike and dip** [Icon showing a line with arrows and a small circle]

Jenkins Mine

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EUGENE HAANEL, PH.D., DIRECTOR





#### LEGEND

- Roads and buildings
- Corner posts and Lot lines
- Reference posts
- Railways
- Open cuts
- Shafts
- Stripings
- Pits filled with water
- Swamps

Negative Intensity



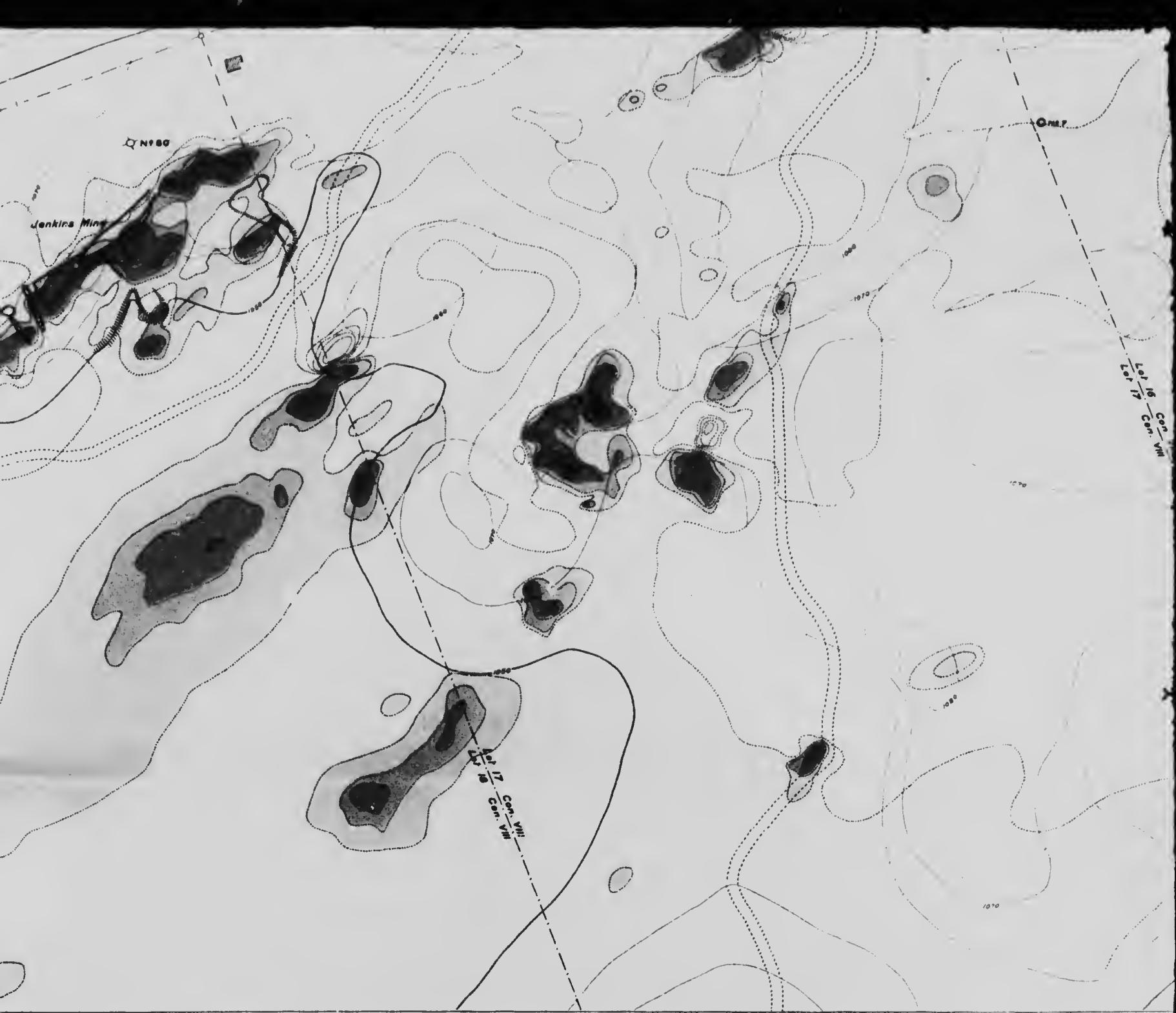
Magnetic attraction greater than -60°

Constant of Instrument 10 H

Magnetic declination about 10° West



H. E. Baine, Chief Draughtsman  
L. H. S. Pereira, Draughtsman



**COEHILL AND JENKINS IRON  
LOTS 15, 16, 17 AND 18.  
TOWNSHIP OF WOLLAS-  
TON HASTINGS COUNTY  
ONTARIO**

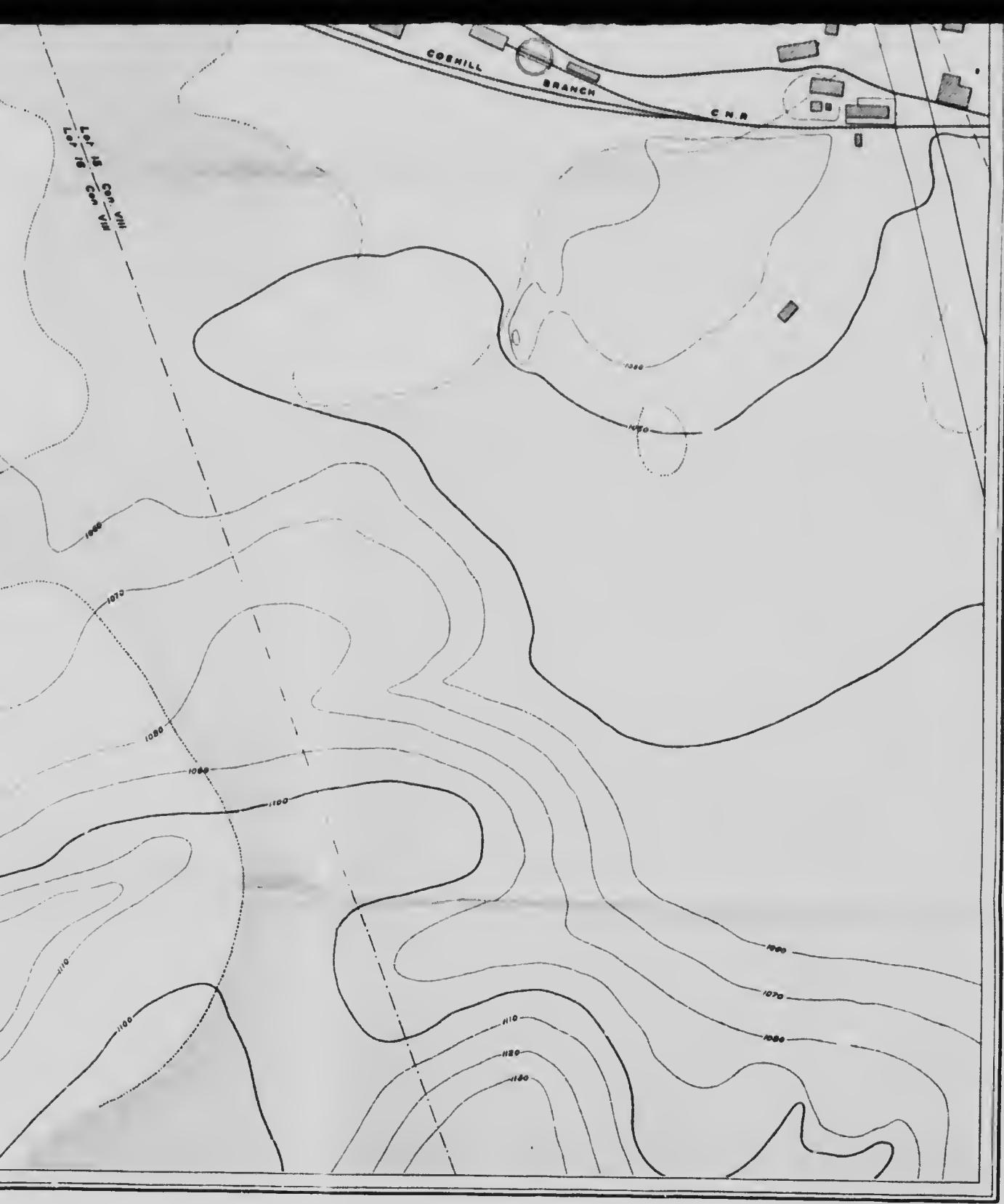
Scale 1:65,000 to 1 inch



**COEHILL AND JENKINS IRON ORE DEPOSITS**  
**LOTS 15, 16, 17 AND 18, CON. VIII**  
**TOWNSHIP OF WOLLASTON**  
**HASTINGS COUNTY**  
**ONTARIO**

Scale 1 mile - 200' to 1 Inch





Diamond-drill hole

Open cuts and Test pits

Shafts

Stripings

Pits filled with water

Swamps

Contours, interval 10 feet  
Elevations above sea level

Mine dumps

NO. 190

Surveyed by  
E. Lindeman 1911  
Assisted by O. G. Gallagher



Outcrop of Magnetite



Driftcovered area within which  
Magnetite is likely to occur indicated  
by Magnetometric Survey



Syenite (Archean)



Crystalline limestone



Schists and amphibolites



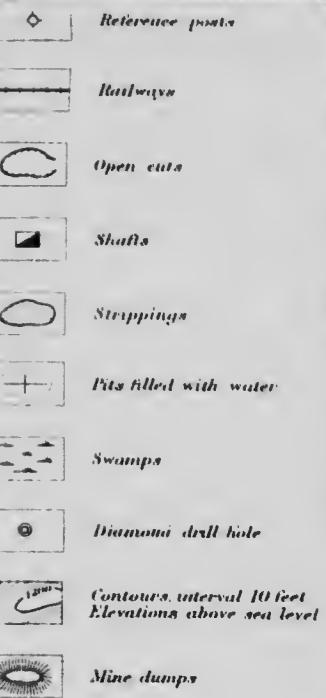
Strike and dip



H. E. Bain, Chief Draughtsman  
L. H. S. Perera, Draughtsman

**COEHILL AND JENKINS IRON ORE**  
**LOTS 15, 16, 17 AND 18, CON. V**  
**TOWNSHIP OF WOLLASTON**  
**HASTINGS COUNTY**  
**ONTARIO**

Scale 1:250,000 to 1 inch



**COEHILL AND JENKINS IRON ORE DEPOSITS**  
**LOTS 15, 16, 17 AND 18, CON. VIII**  
**TOWNSHIP OF WOLLASTON**  
**HASTINGS COUNTY**  
**ONTARIO**

Scale 1 mile = 200' to 1 inch

Geology by  
E. Lindeman 1911

NO. 190A

## MAGNETOMETRIC MAP

### LEGEND



*Isodynamic lines of the vertical magnetic intensity*

#### Positive Intensity



Magnetic attraction greater than 60°



between 50° - 60°



40° - 50°



20° - 40°



0° - 20°

#### Negative Intensity



between 0° - -20°



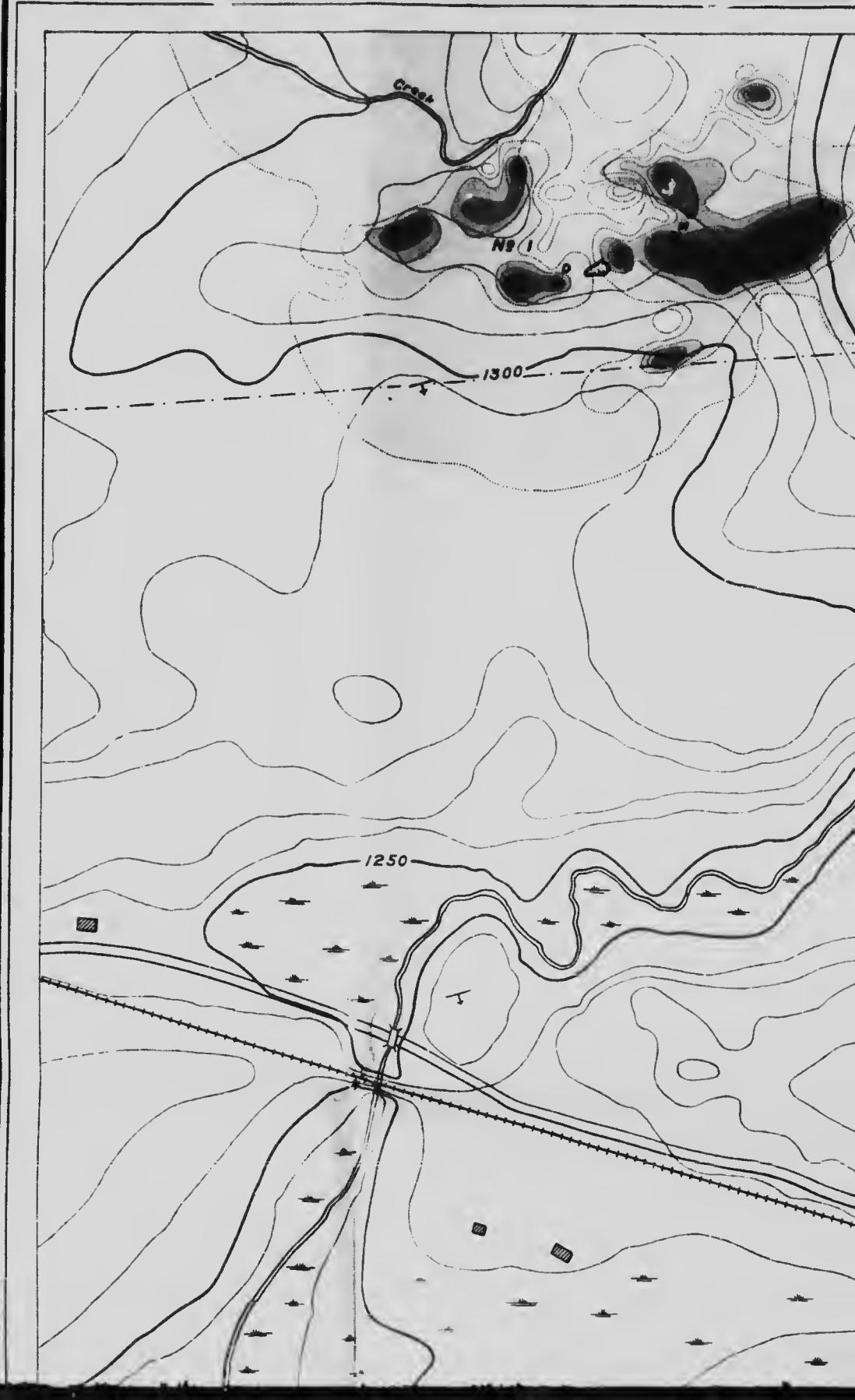
-20° - -40°

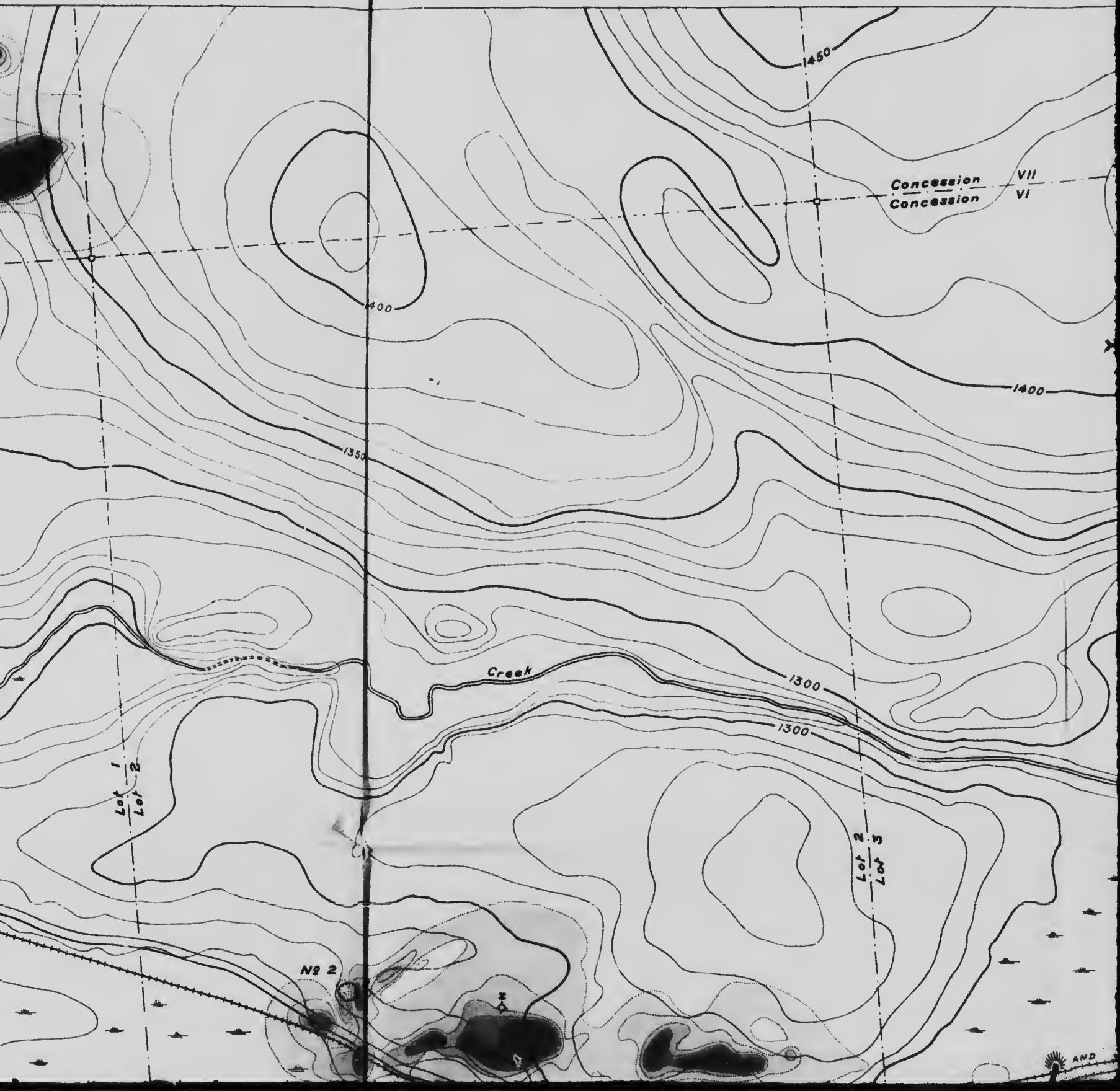


-40° - -50°



-50° - -60°

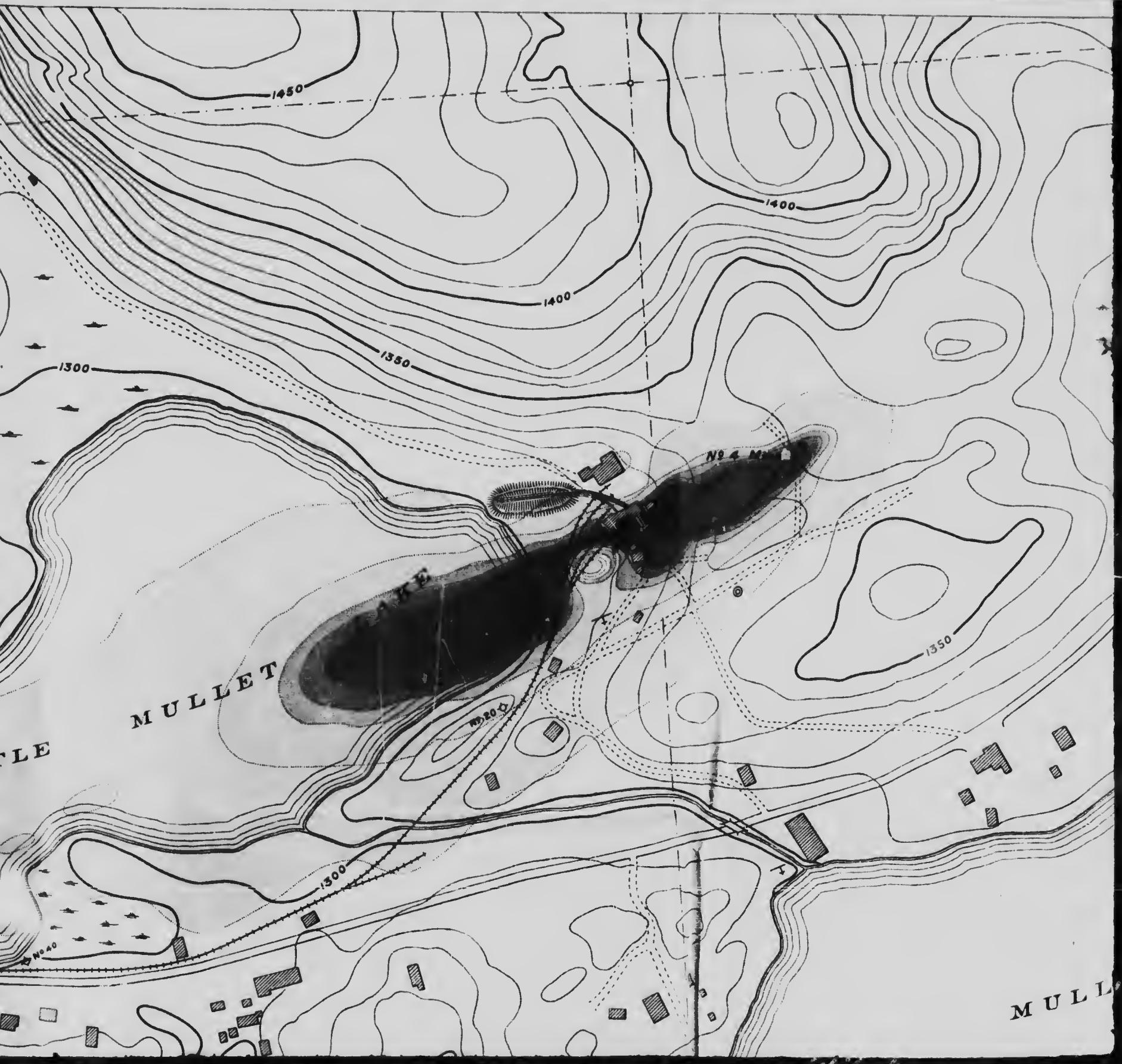


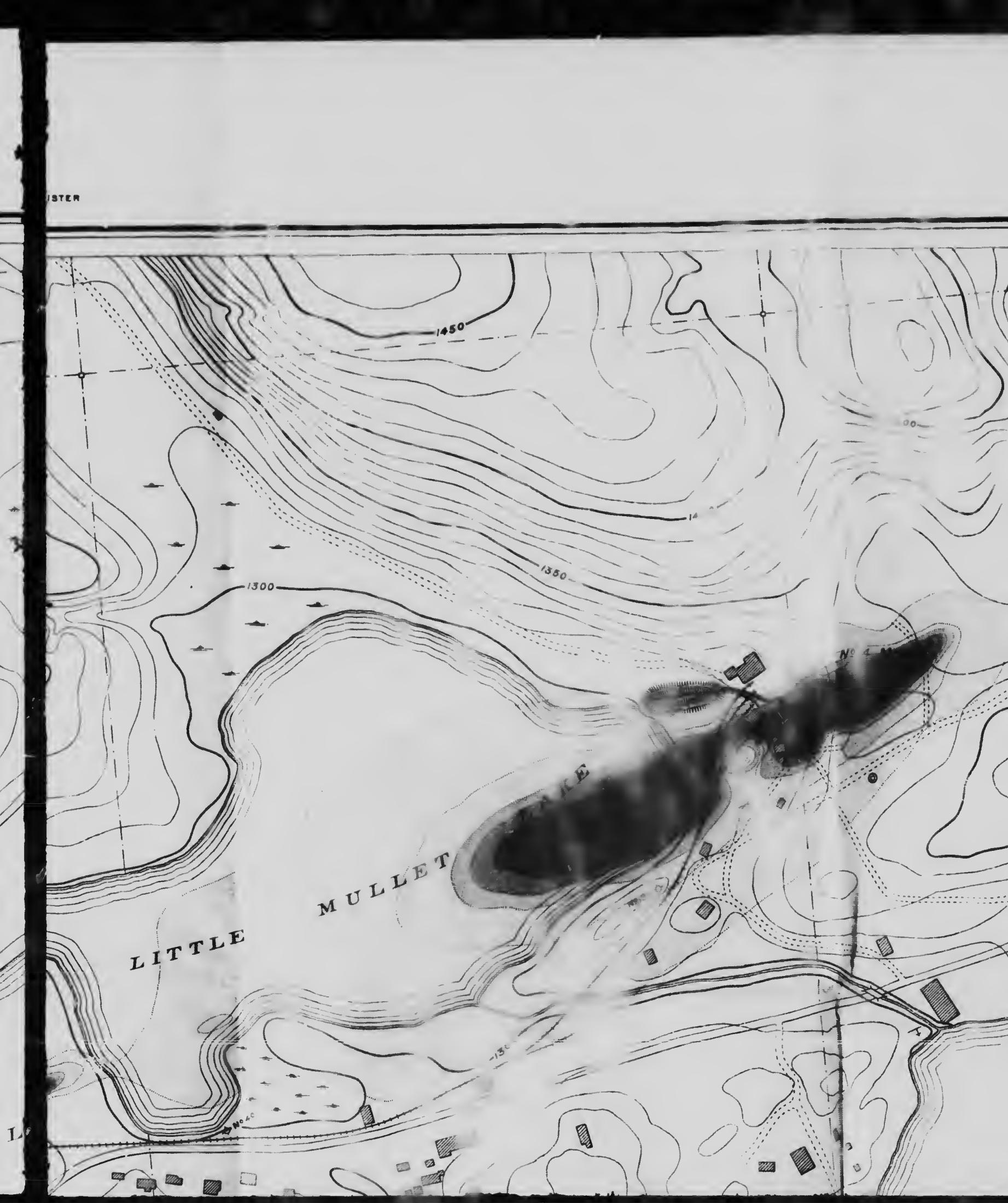


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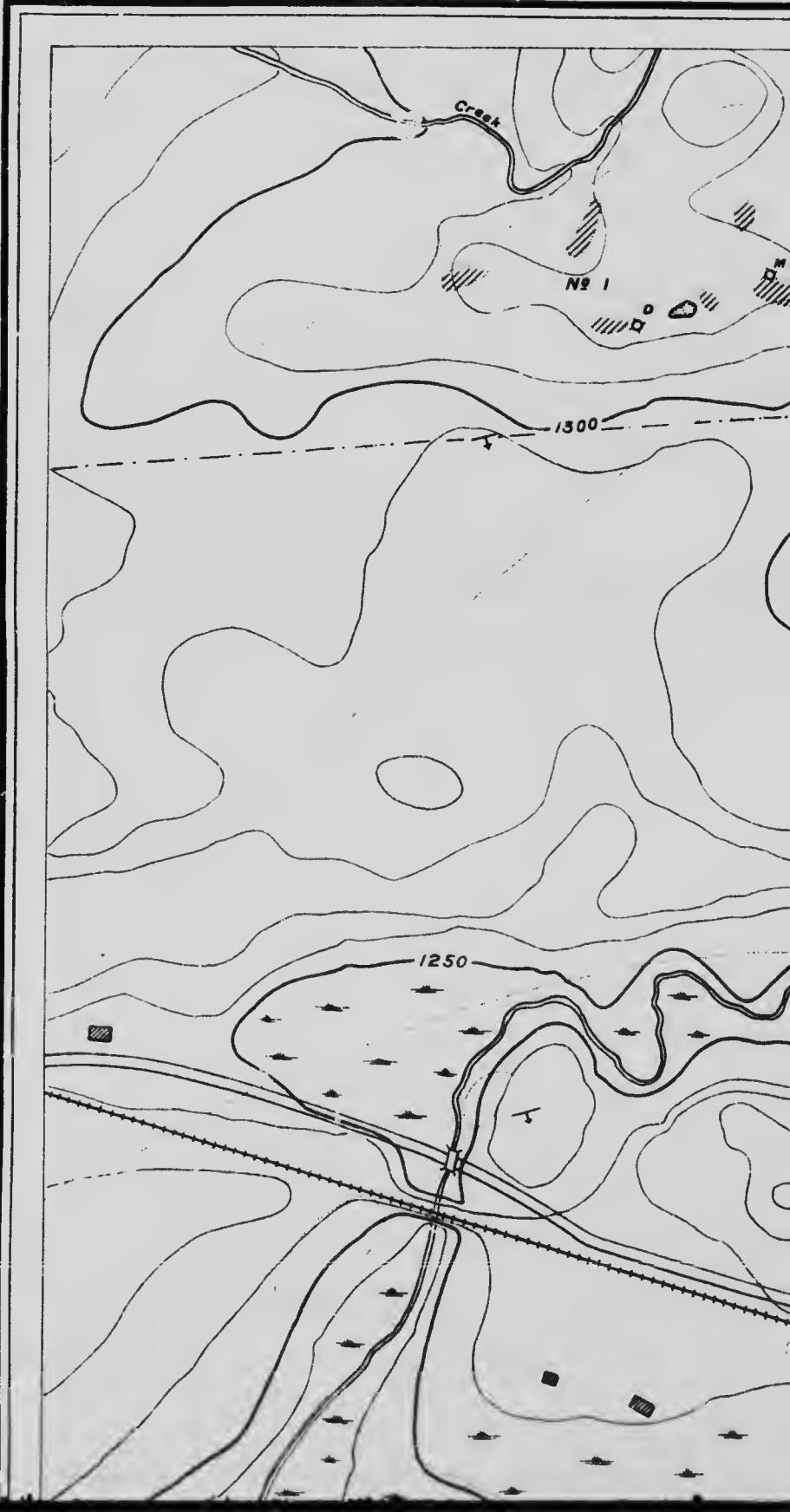




#### LEGEND

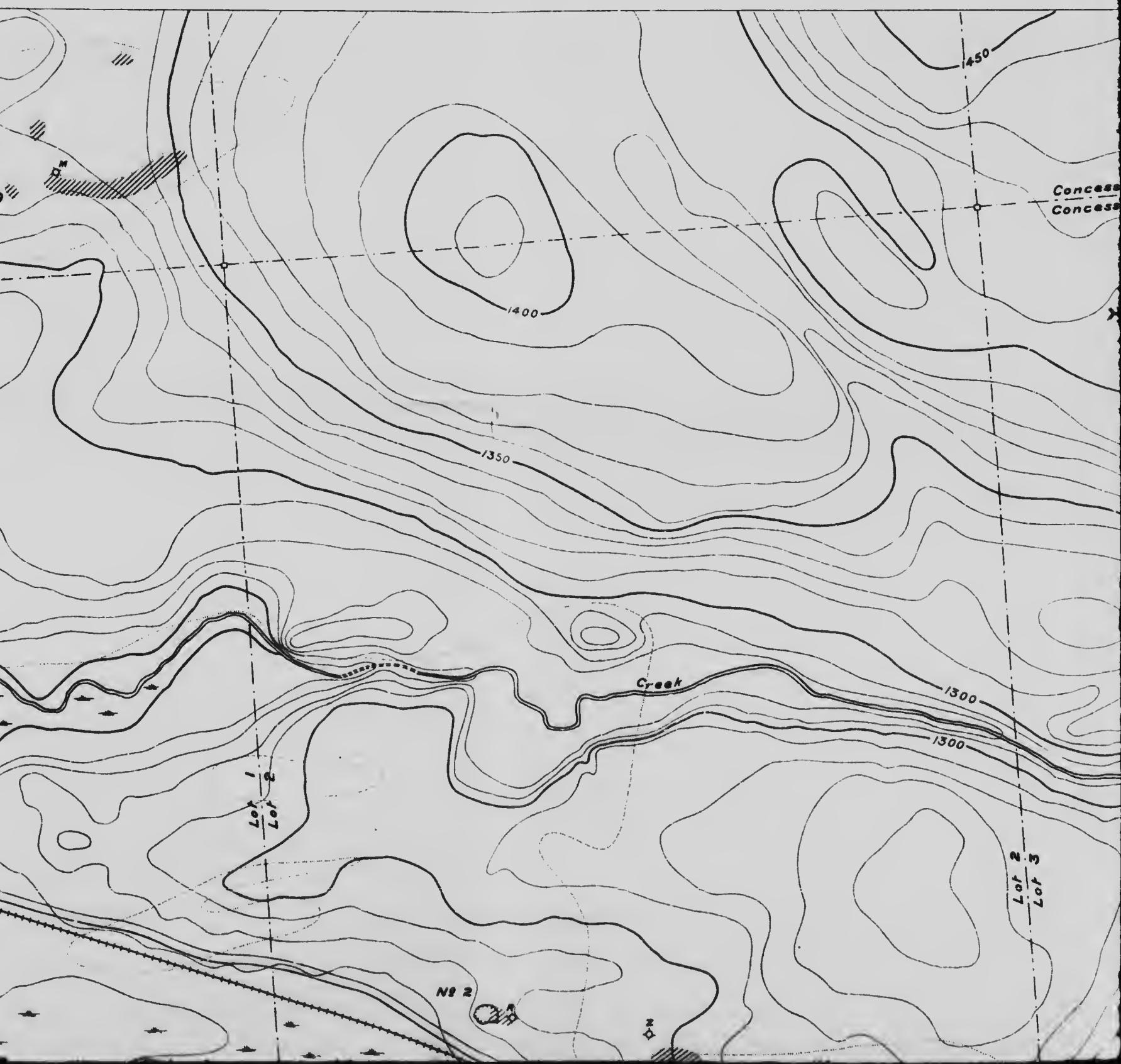
- Roads and buildings
- Corner posts and Lot lines
- Reference points
- Railways
- Elevated tramway
- Bridges
- Diamond drill-hole
- Open cuts and Test pits
- Strippings
- Swamps
- Mine dumps
- Contours, interval 10 feet  
Elevations above sea-level

### GEOLOGICAL MAP



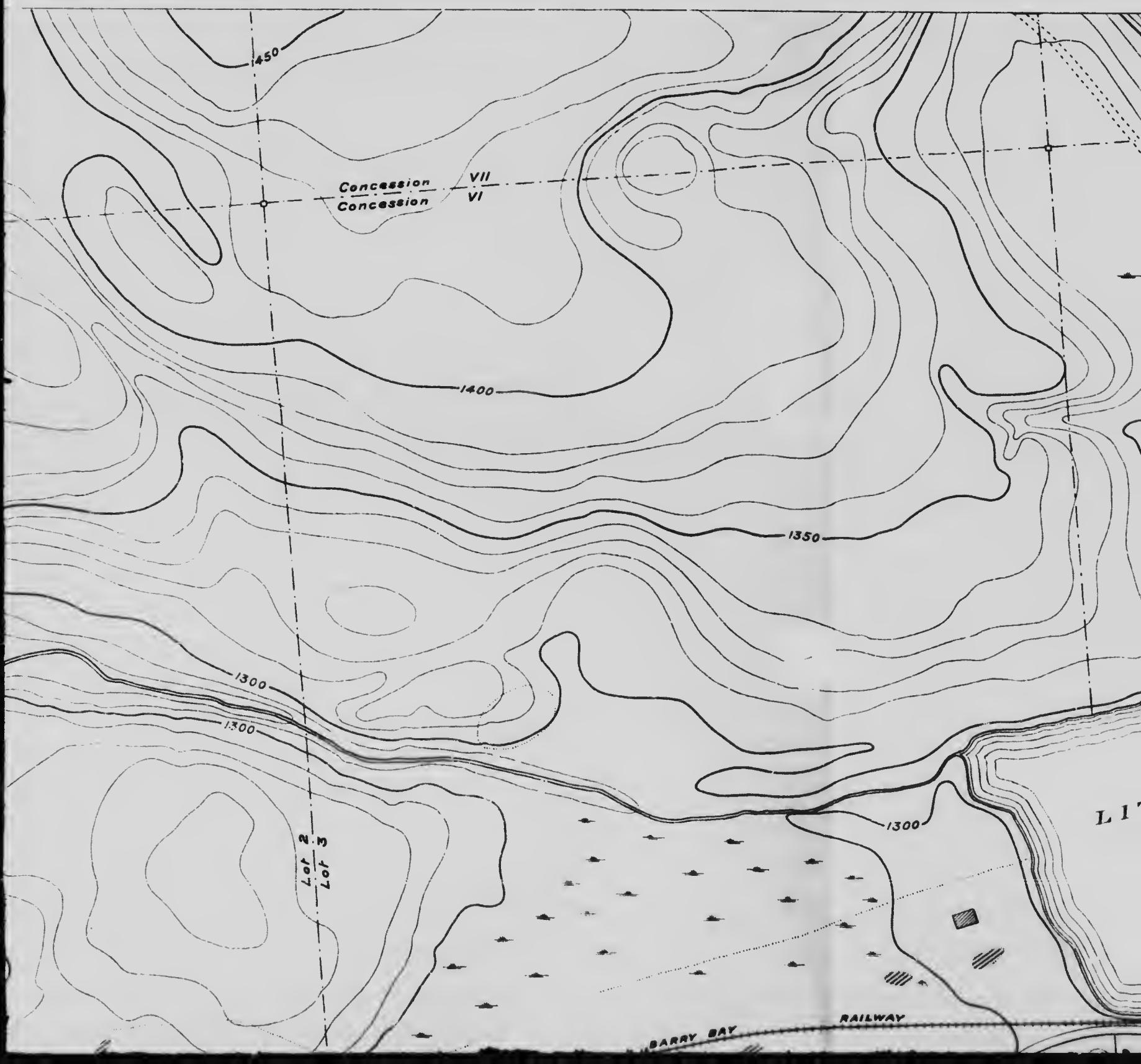
### LEGEND

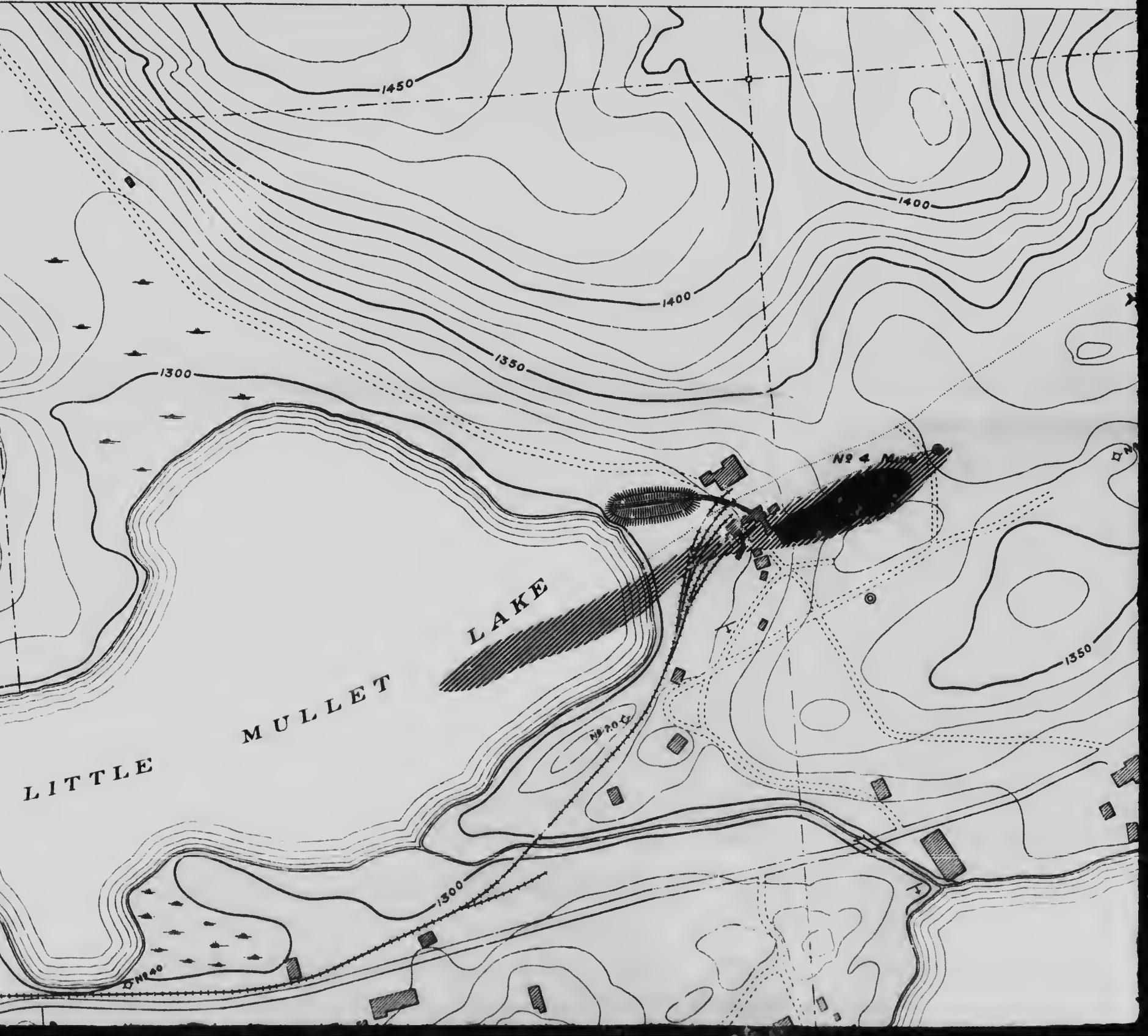
- Outercrop of Magnetite**: Represented by a solid black square.
- Drift-covered area within which Magnetite is likely to occur, indicated by Magnetometric Survey**: Represented by a hatched square.
- Crystalline limestone, schists (Archean) and amphibolites**: Represented by a square with a vertical line.
- Granite and granitgneiss**: Represented by a square with a diagonal line.
- Strike and dip**: Represented by a line with an arrowhead.

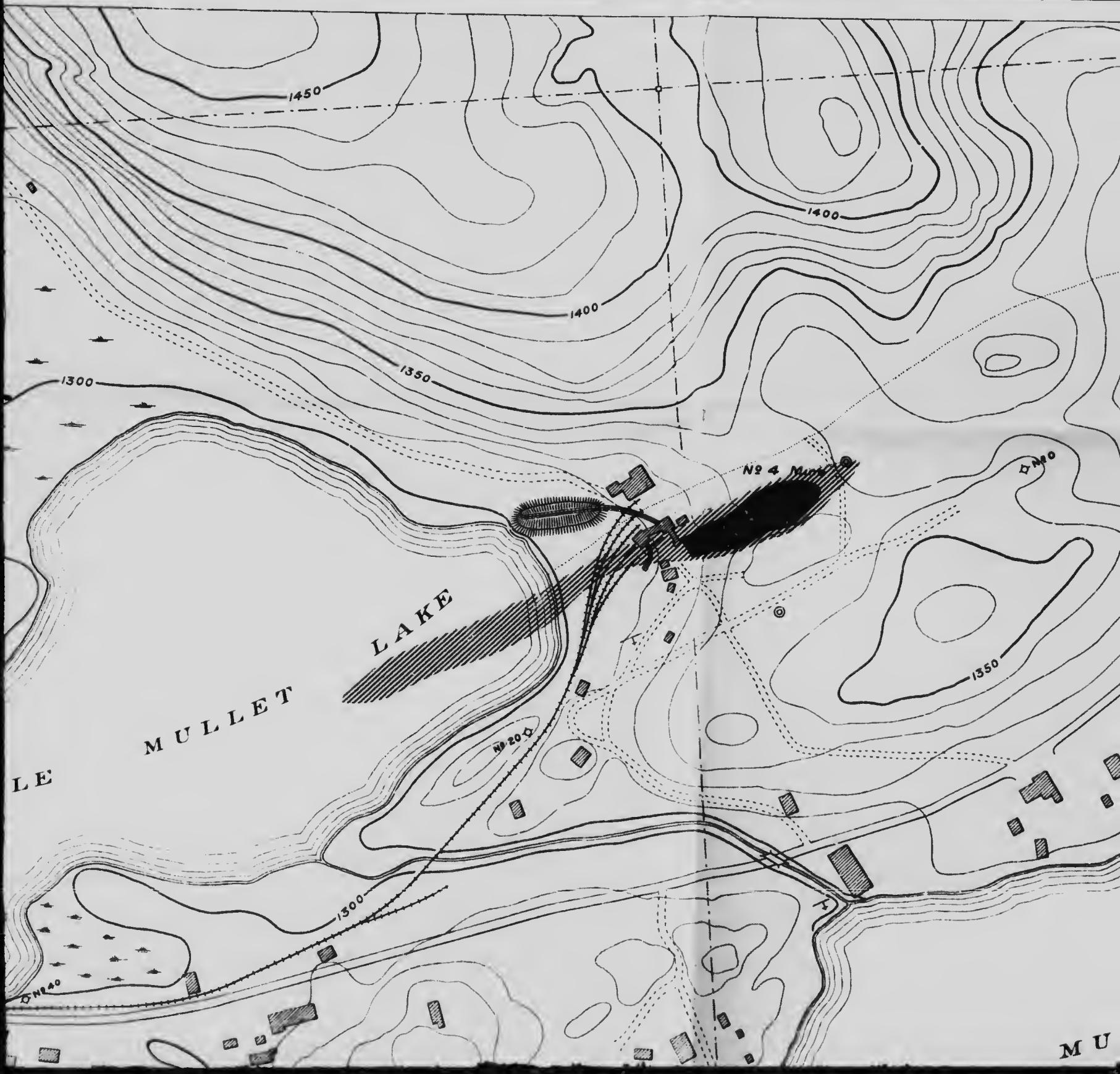


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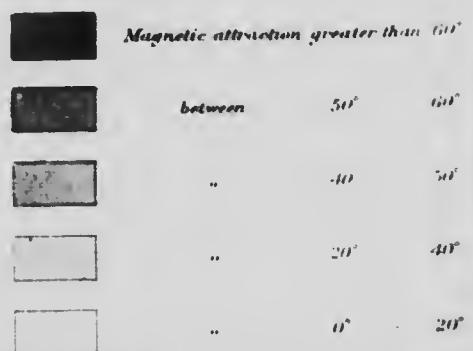




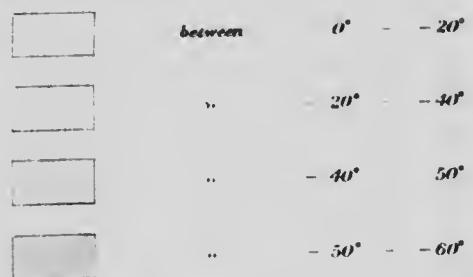
#### LEGEND

- Roads and buildings
- Corner posts and lot lines
- Reference posts
- Railways
- Elevated tramway
- Bridges
- Diamond drill hole
- Open cuts and test pits
- Strippings
- Streams
- Swamps
- Contours, interval 10 feet

Positive Intensity



Negative Intensity

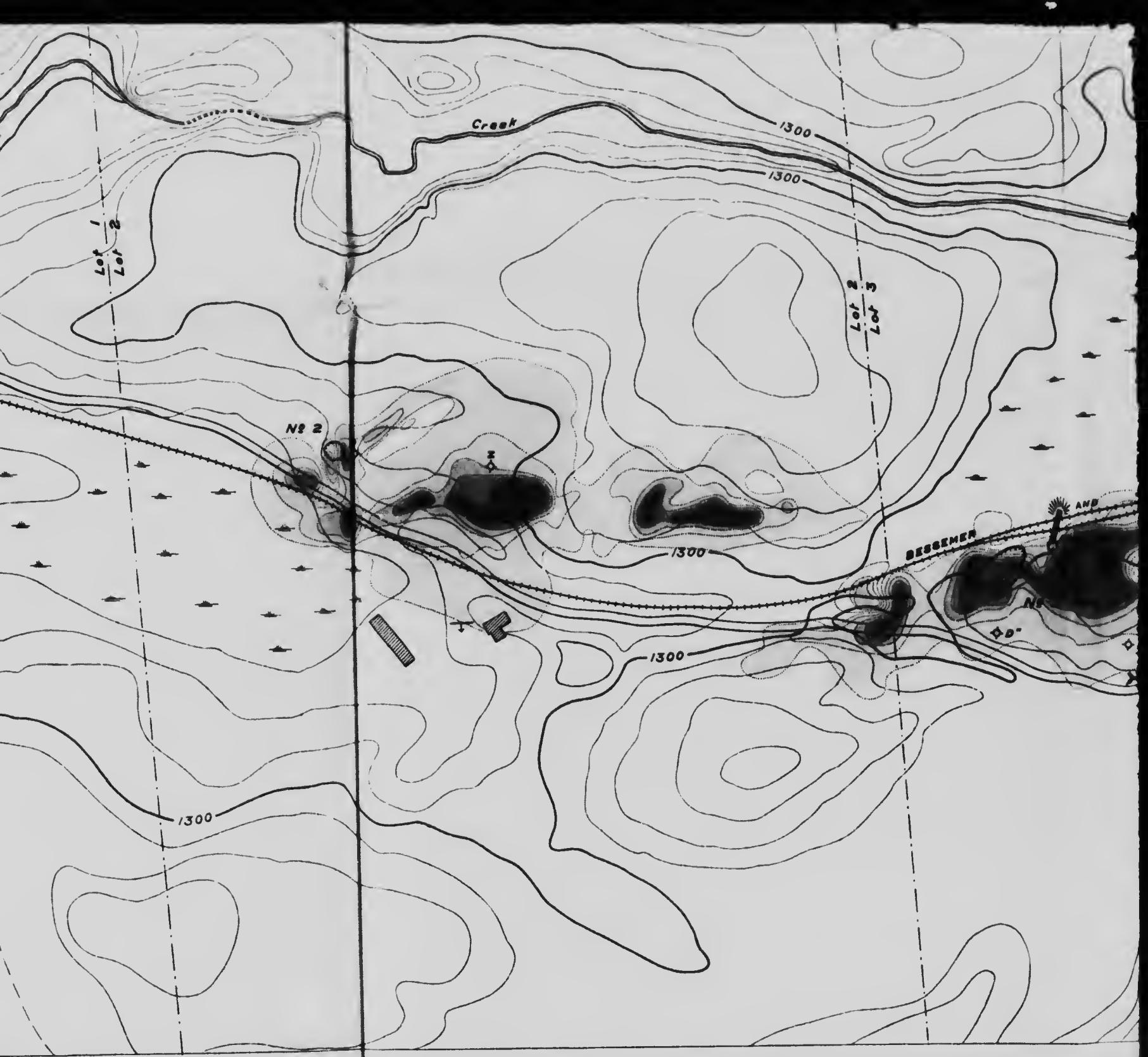


Constant of Instrument = 1.0 H

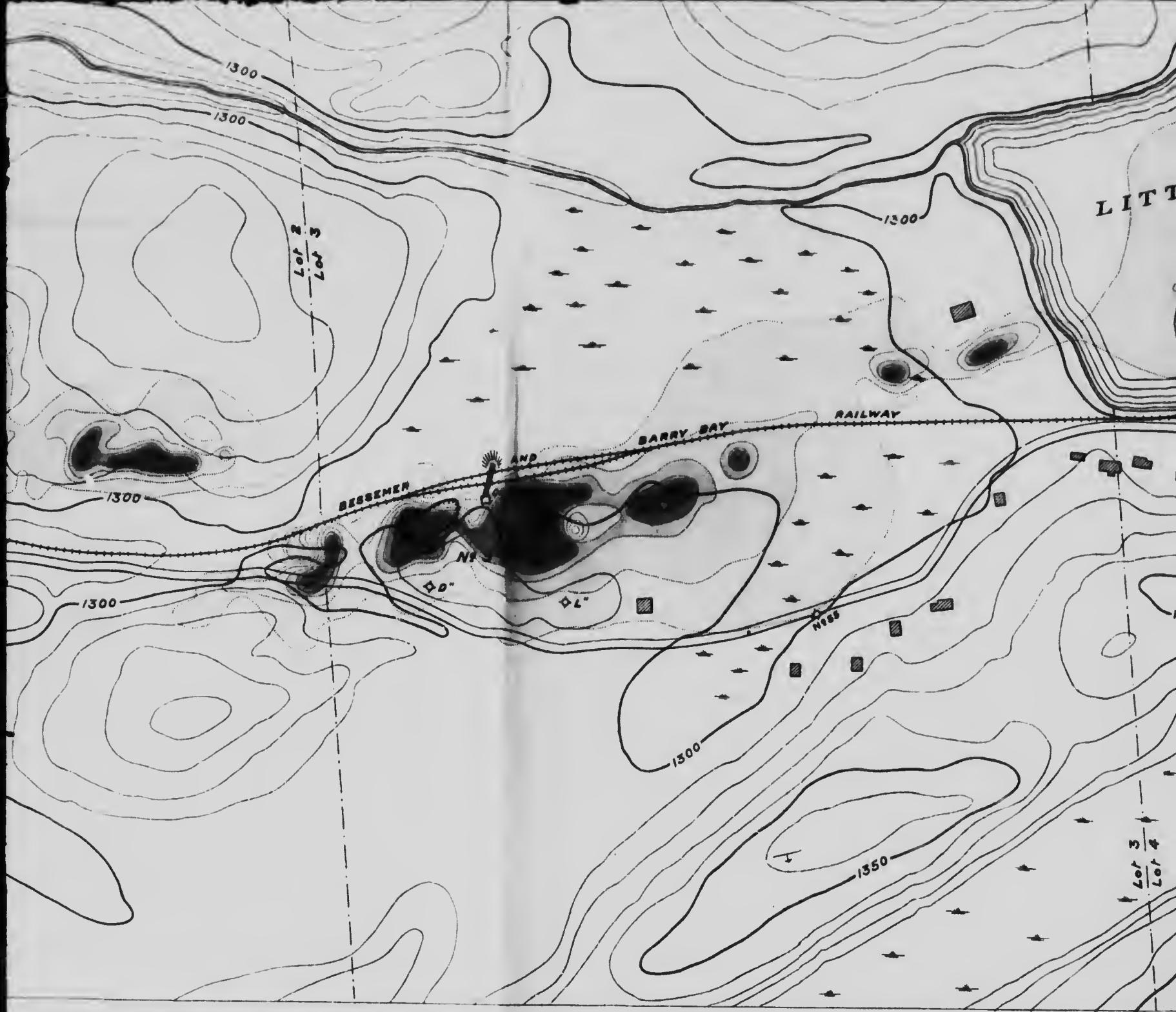
Magnetic declination about  $11^{\circ}$  West



H. E. Baine, Chief Draughtsman  
L. H. S. Pereira, Draughtsman



IRON  
LOT



**IRON ORE DEPOSITS AT BESSEMER**  
**LOT 1, CON. VII, 2, 3, 4 AND 5, CON. VI**  
**TOWNSHIP OF MAYO**  
**HASTINGS COUNTY**  
**ONTARIO**

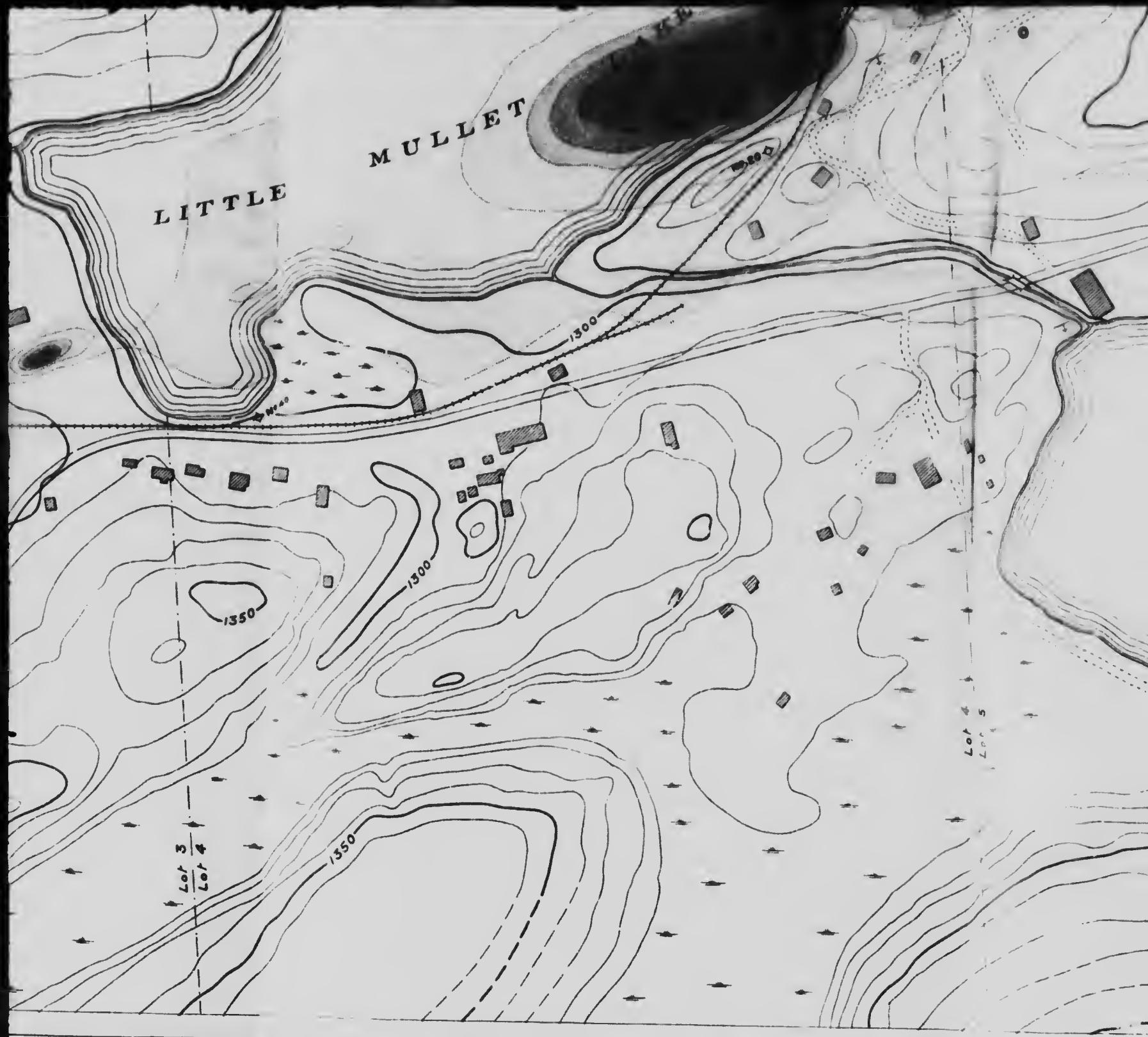
Scale,  $\frac{1}{400}$  - 200 Feet to 1 Inch  
0 100 200 300 400 500 600



MER  
I

Magnetometric Survey  
H. Fréchette - 1908  
E. Lindeman - 1911

Topography  
E. Lindeman 1911  
Assisted by W. M. Morrison



BESSEMER  
S. CON. VI  
YO

Topographic Survey  
Bessemer - 1908  
Leaman - 1911  
Topography  
E. Leaman 1911  
Assist. C. W. M. Morrison



NO. 191

*Outcrop of Magnetite*



*Drift-covered area within which  
Magnetite is likely to occur, indicated  
by Magnetometric Survey*



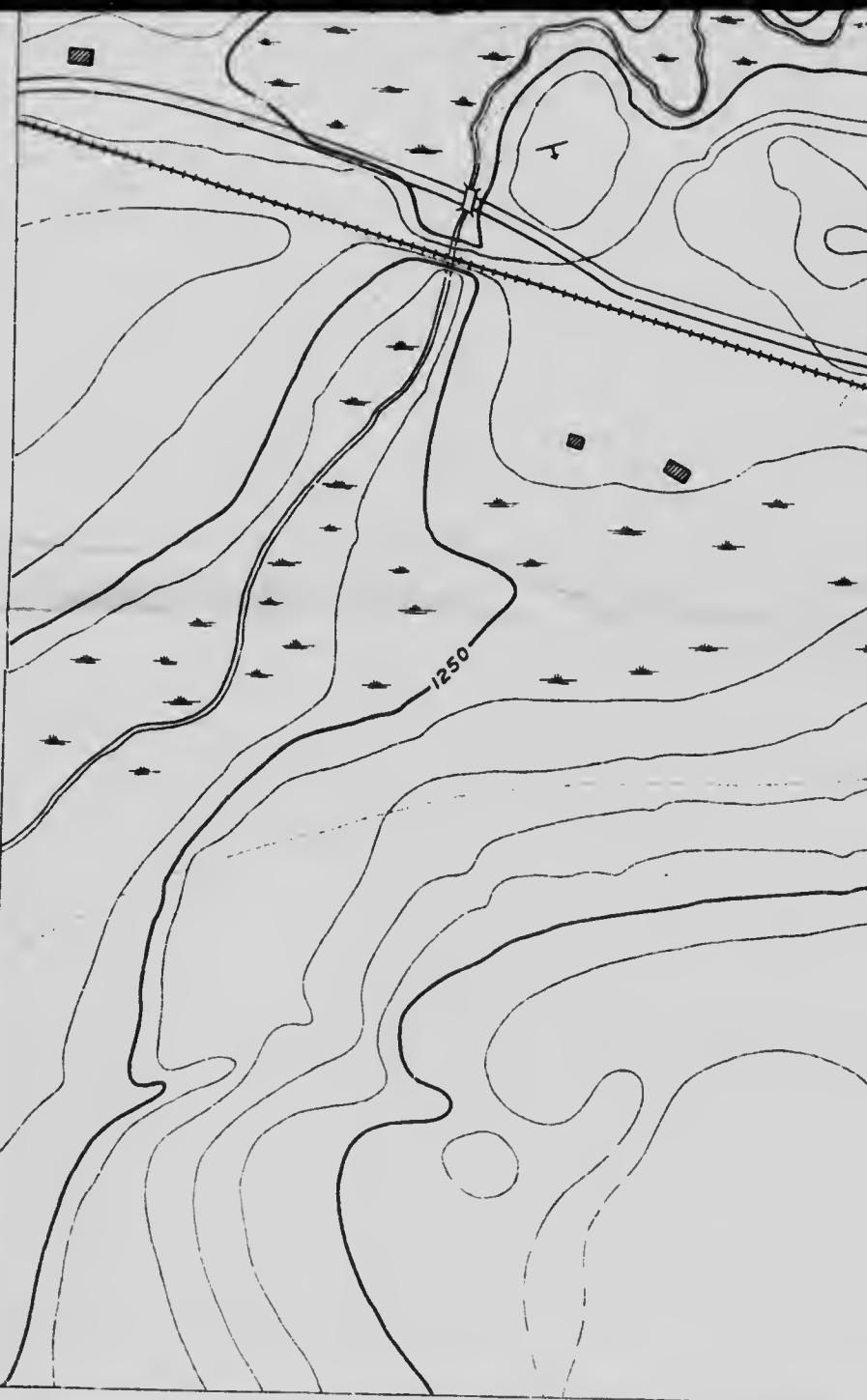
*Crystalline limestone schists (Archaean)  
and amphibolites*



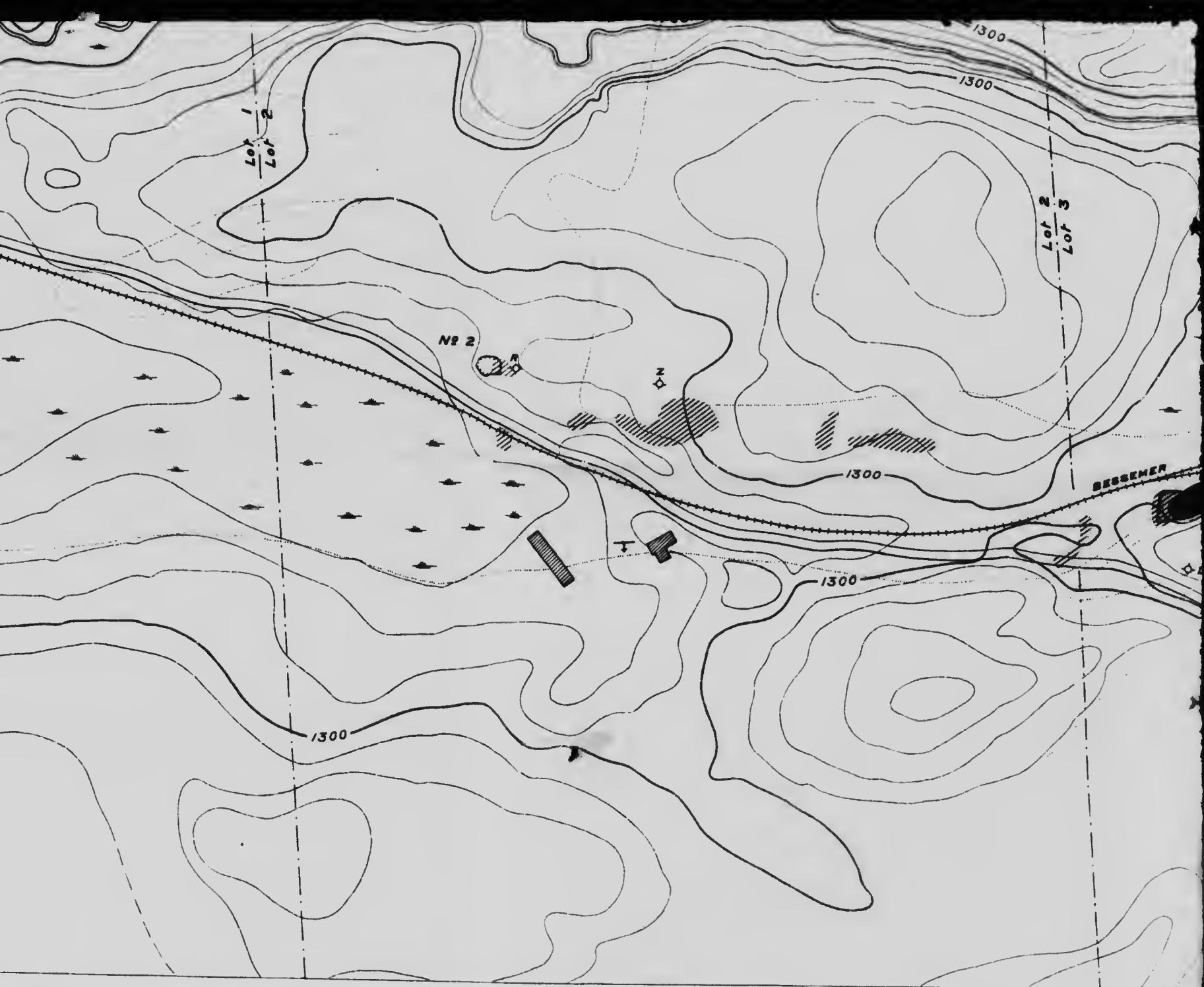
*Granite and granitgneiss*

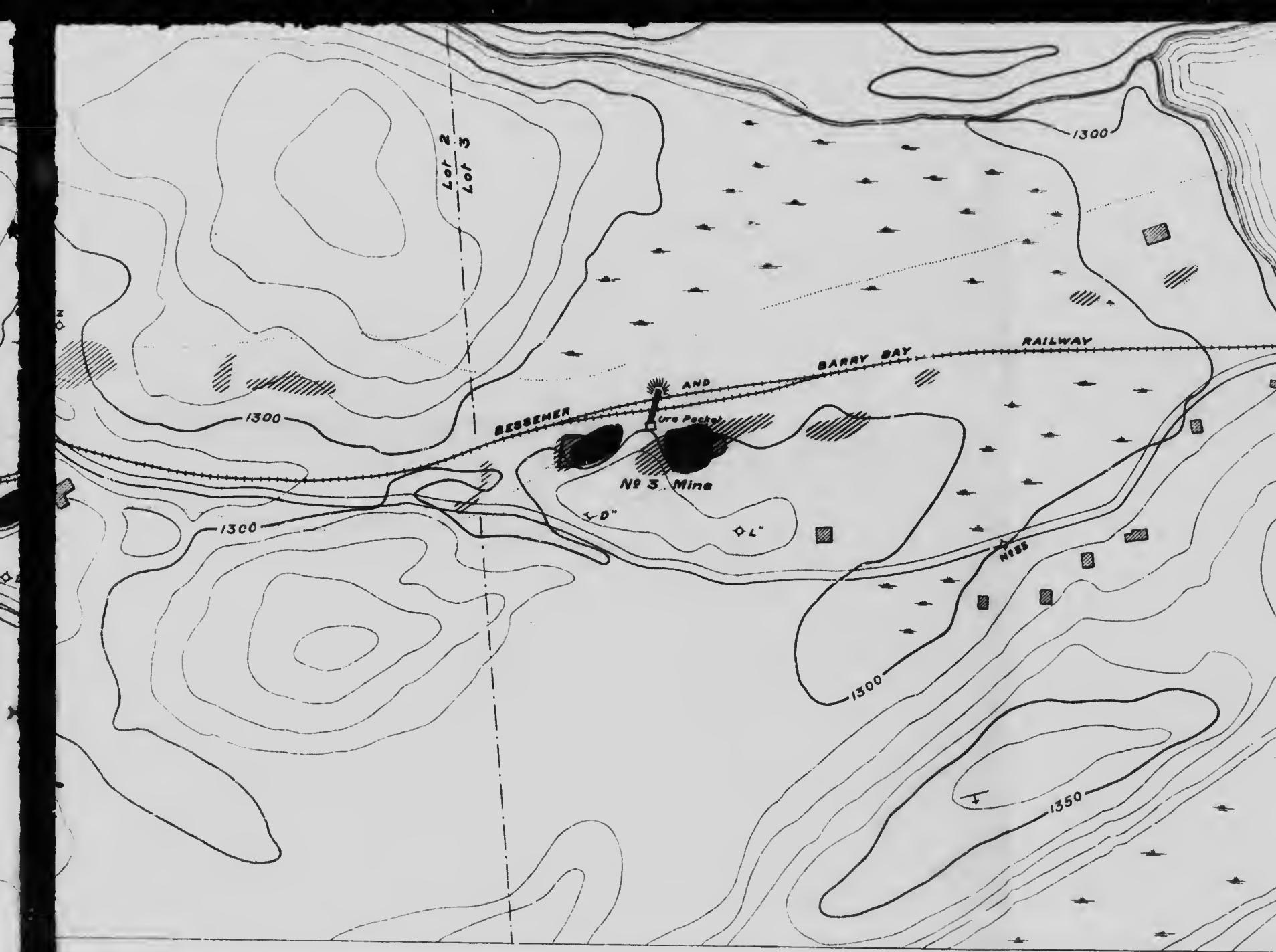


*Strike and dip*



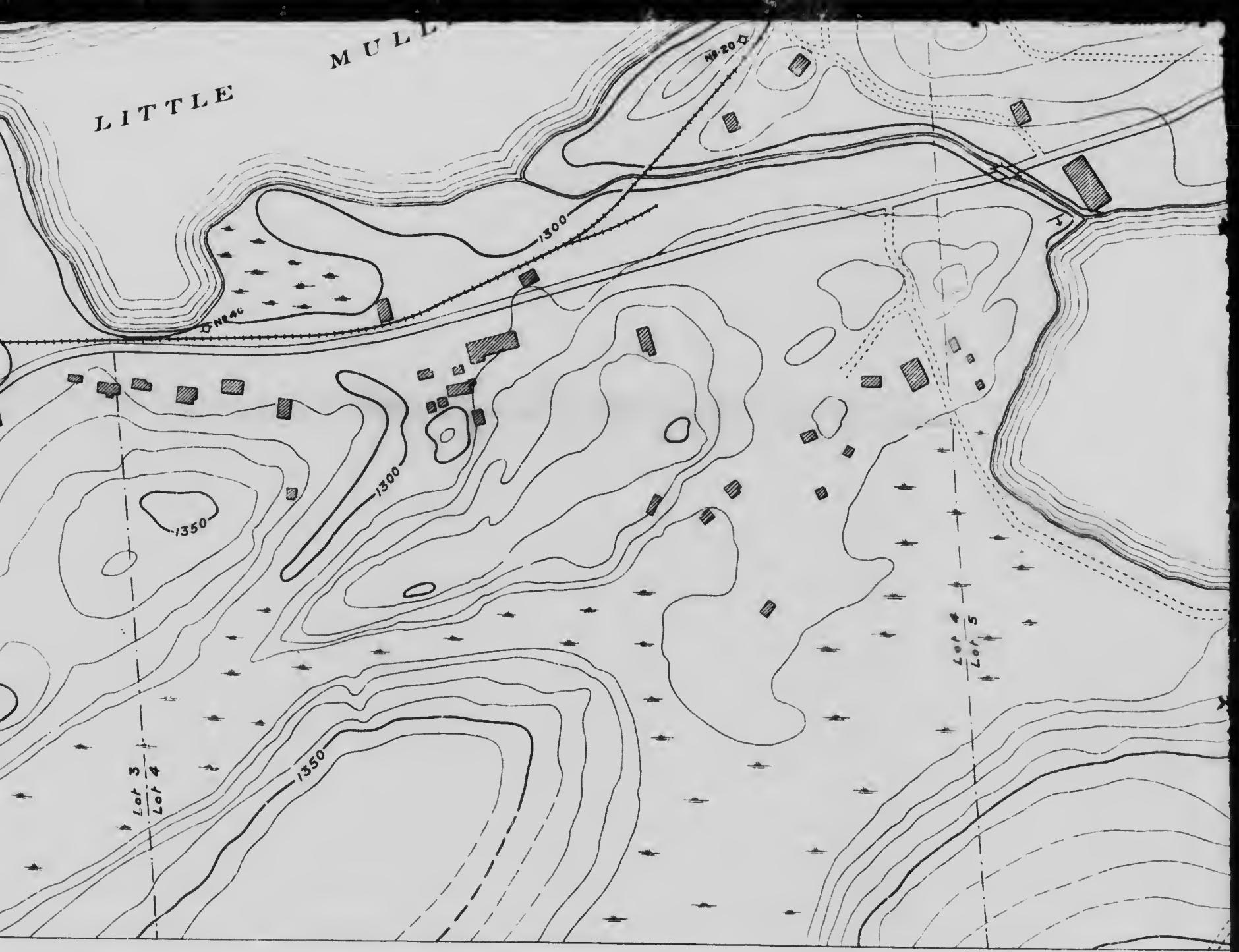
*H. E. Baine, Chief Draughtsman  
L. H. S. Pereira, Draughtsman*





**IRON ORE DEPOSITS AT BESSEMER  
LOT 1, CON. VII, 2, 3, 4 AND 5, CON. V  
TOWNSHIP OF MAYO  
HASTINGS COUNTY  
ONTARIO**

Scale,  $\frac{1}{2400}$  = 200 Feet to 1 Inch

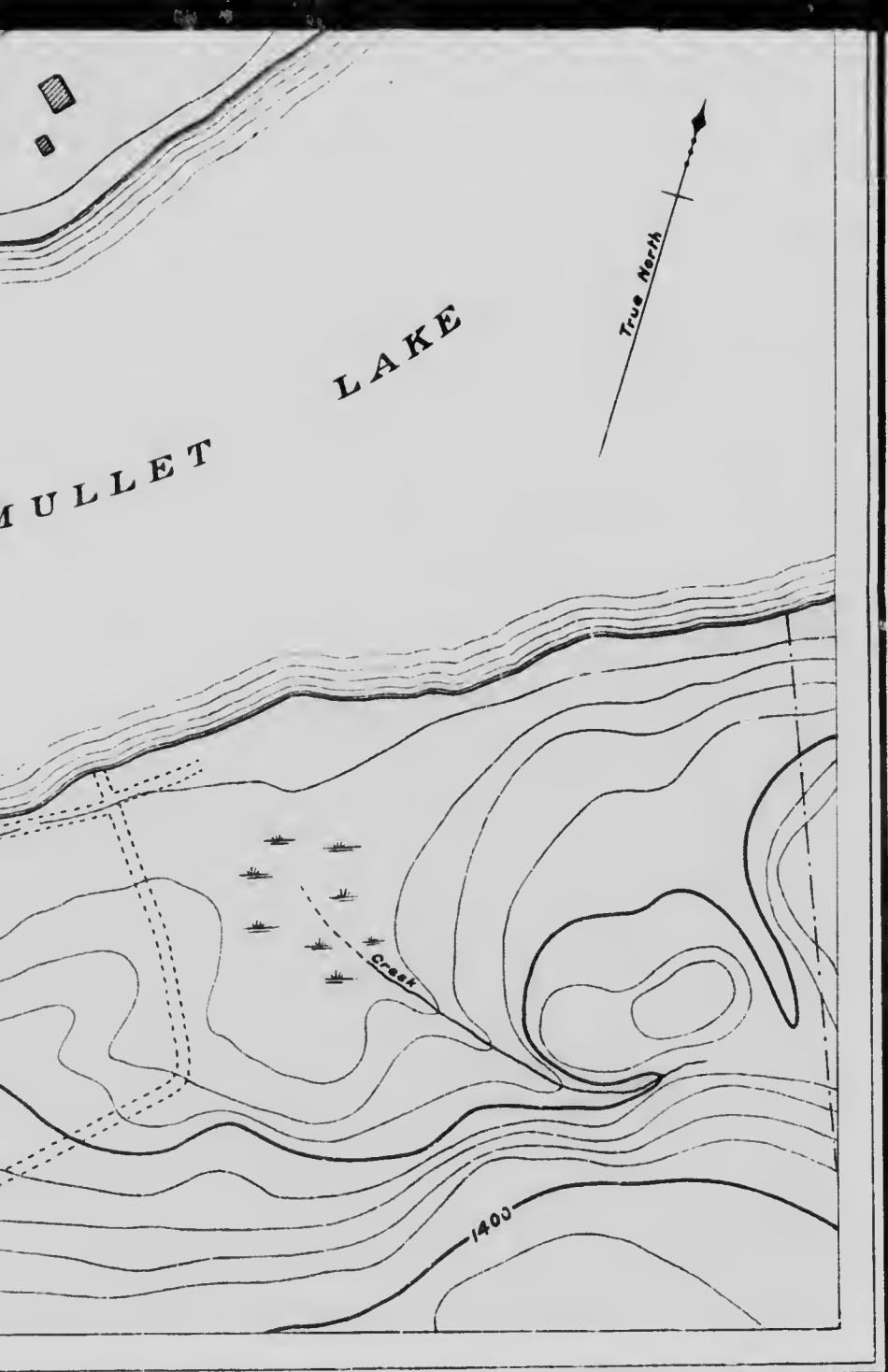


ESSEMER  
ON. VI

Geology by  
E. Lindeman 1911



Geology by  
E. Lindeman 1911



NO. 191A

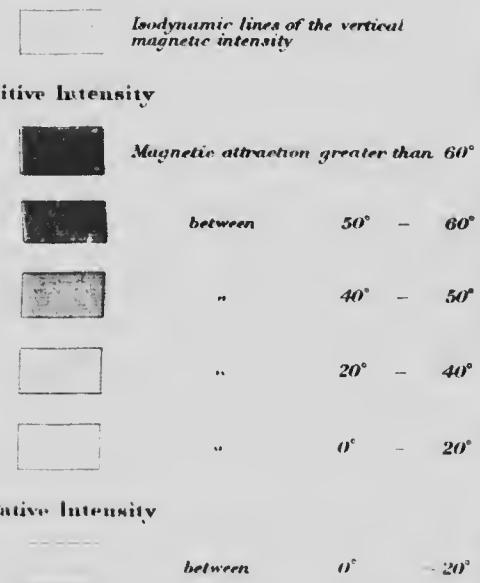


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MAGNETOMETRIC MAP

LEGEND



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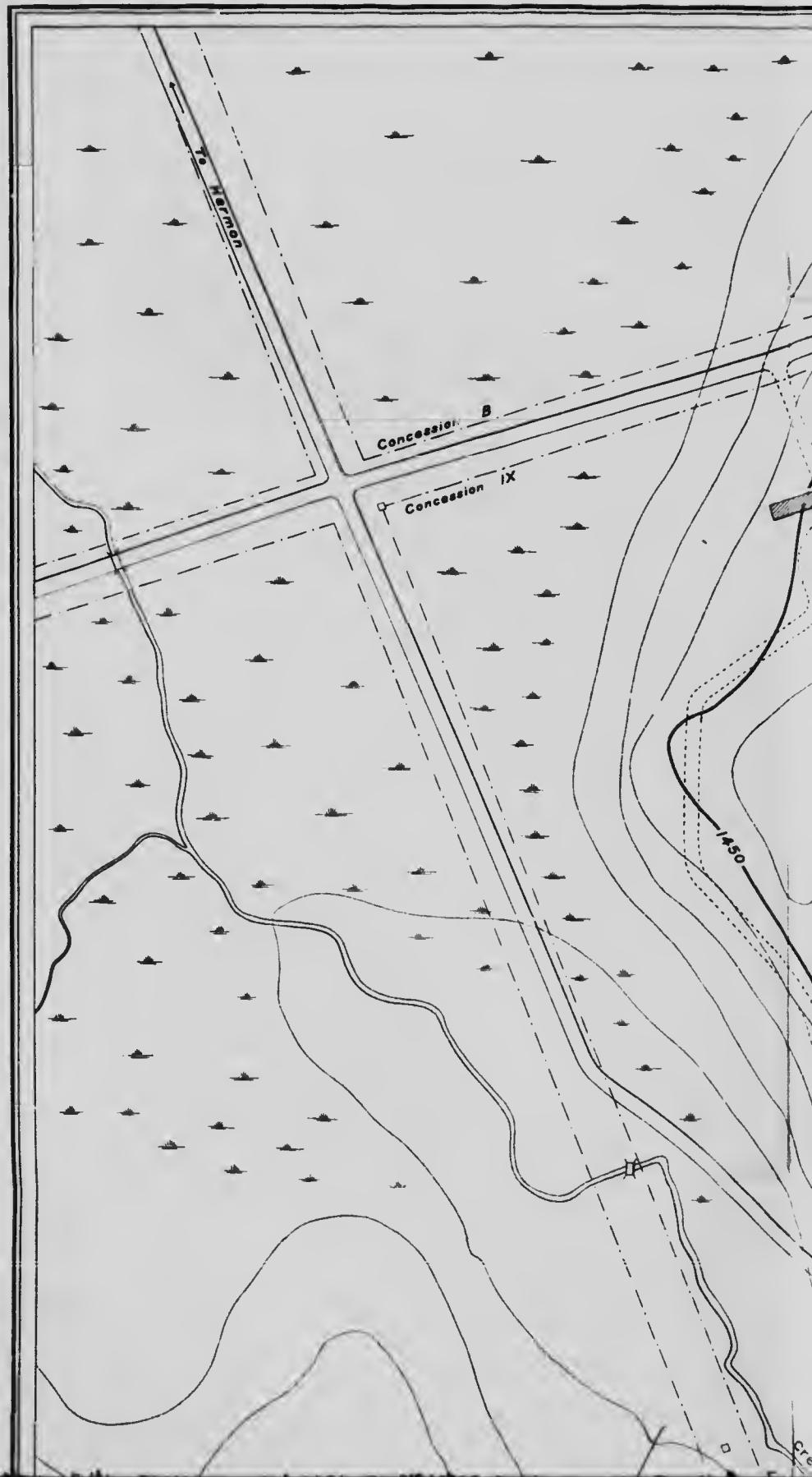
HON. ROBERT ROGERS, MINISTER; A.P. LOW, LL.D., DEPUTY MINISTER  
EUGENE HAANEL, PH.D., DIRECTOR



LEGEND

- [Symbol: road with buildings] Roads and buildings
- [Symbol: square with diagonal line] Corner posts and Lot lines
- [Symbol: diamond] Reference posts
- [Symbol: bridge icon] Bridges
- [Symbol: square with cross] Shafts
- [Symbol: circle with cross] Open cuts and Test pits

### GEOLOGICAL MAP

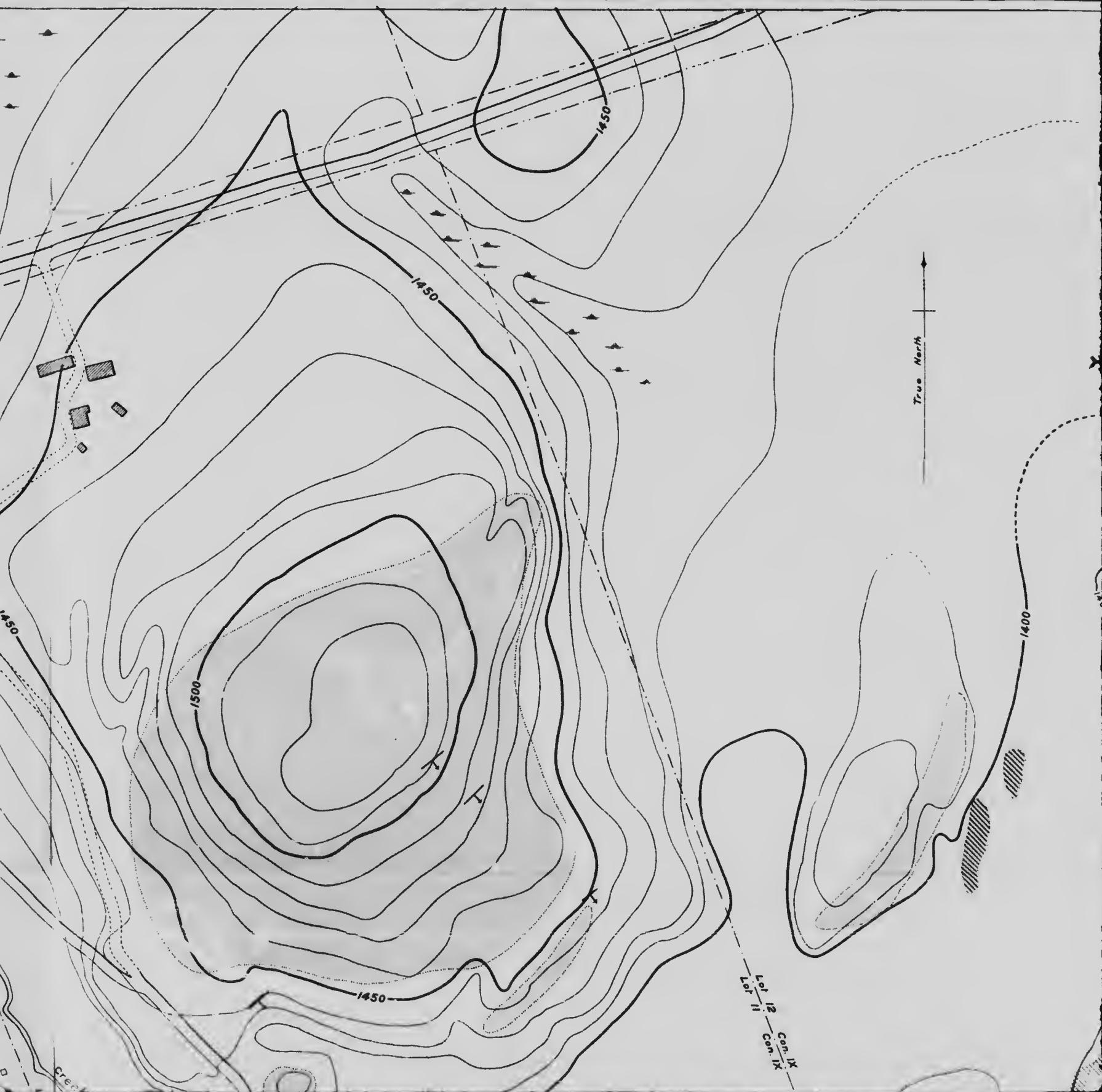


#### LEGEND

- Driftcovered area
- Outcrop of Magnetite
- Driftcovered area within which Magnetite is likely to occur, indicated by Magnetometric Survey
- Crystalline limestone Schists (Archean) and amphibolites
- Granite and granitgneiss "
- Strike and dip

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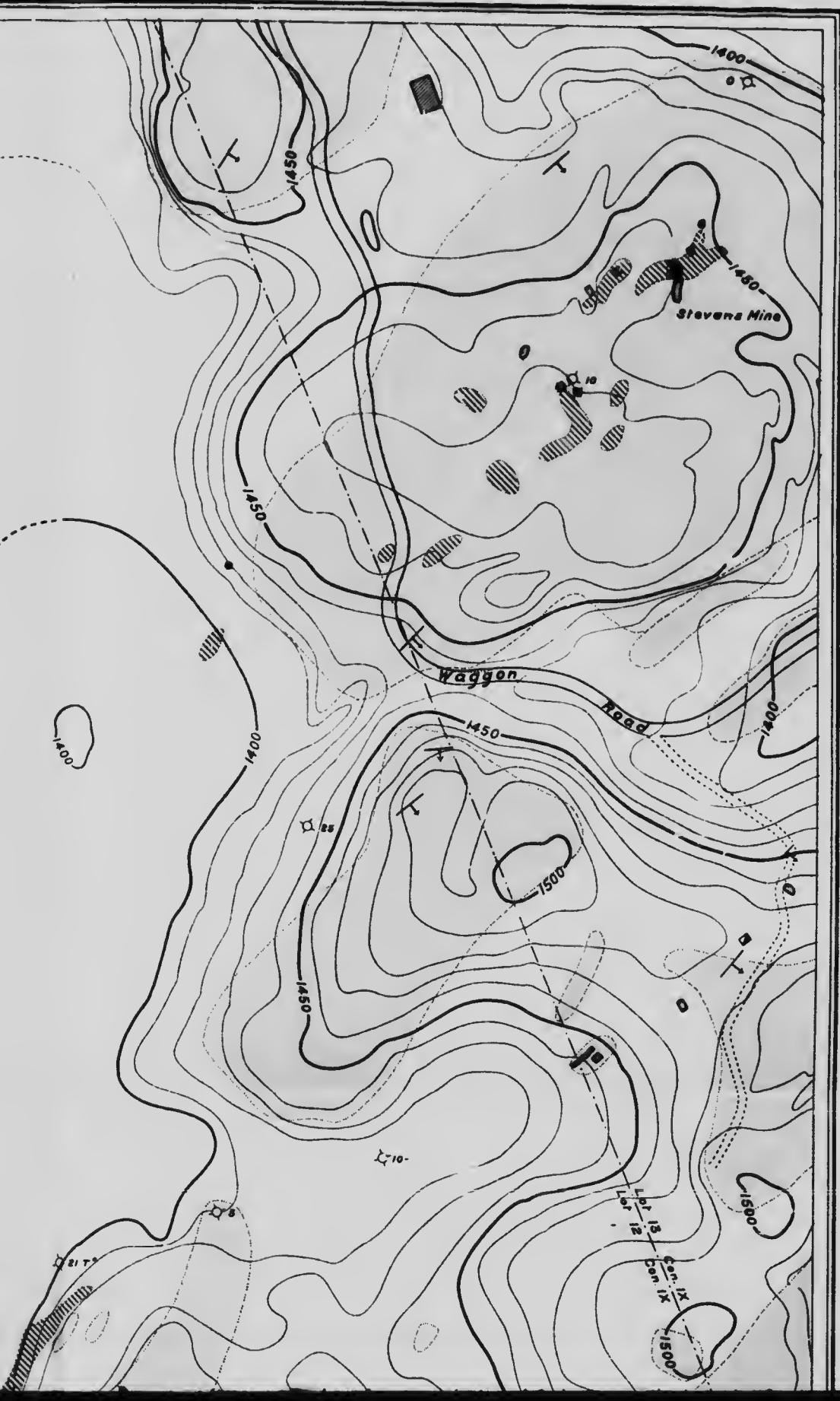
HON. ROBERT ROGERS, MINISTER; A.P. LOW, LL.D., DEPUTY MINISTER  
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#### LEGEND

- |  |                                   |
|--|-----------------------------------|
|  | <i>Roads and buildings</i>        |
|  | <i>Corner posts and Lot lines</i> |
|  | <i>Reference posts</i>            |
|  | <i>Bridges</i>                    |
|  | <i>Shafts</i>                     |
|  | <i>Open cuts and Test pits</i>    |
|  | <i>Strippings</i>                 |
|  | <i>Swamps</i>                     |



20° - 40°



0° - 20°

**Negative Intensity**

between 0° - -20°



20° - -40°



-40° - -50°



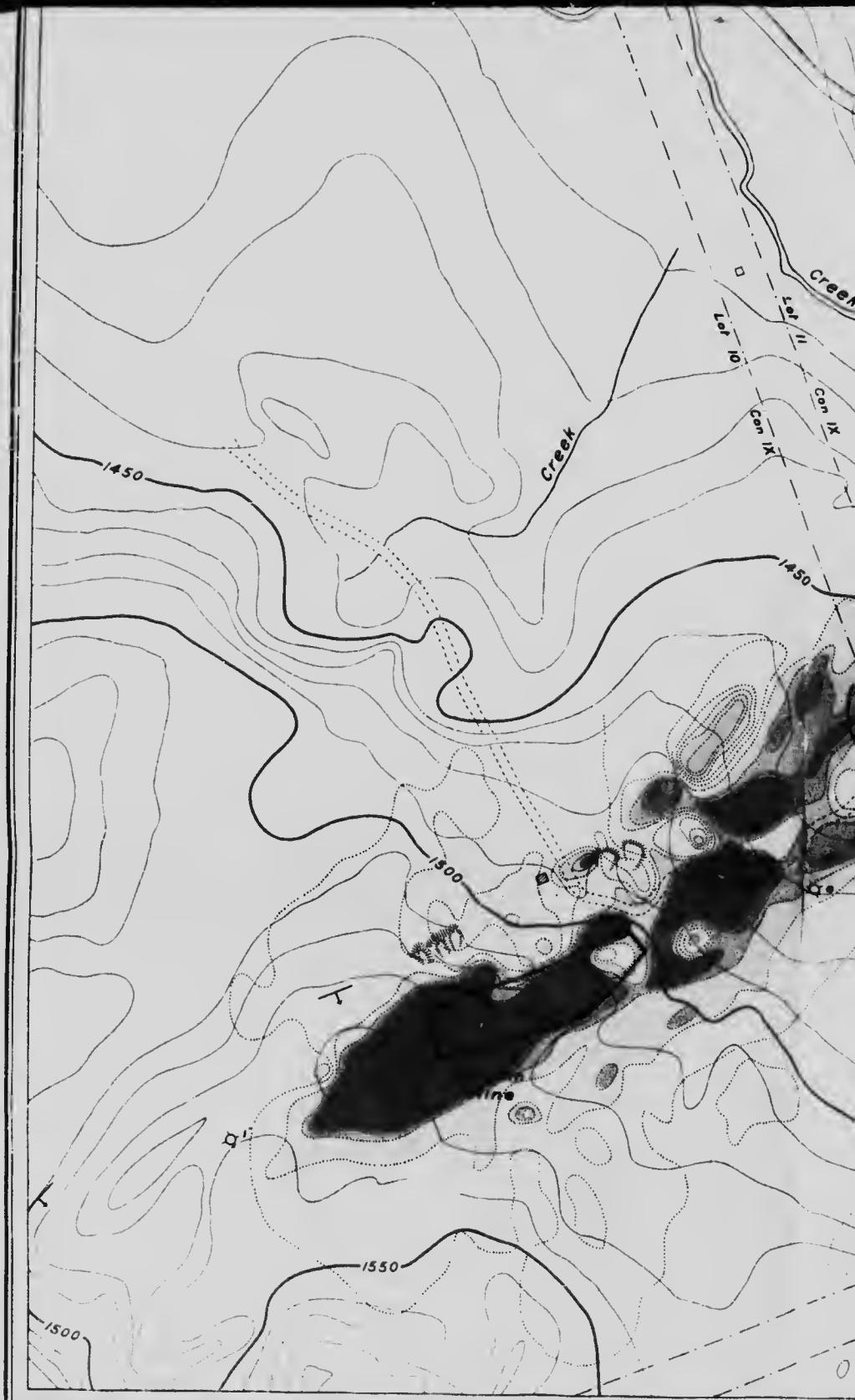
-50° - -60°



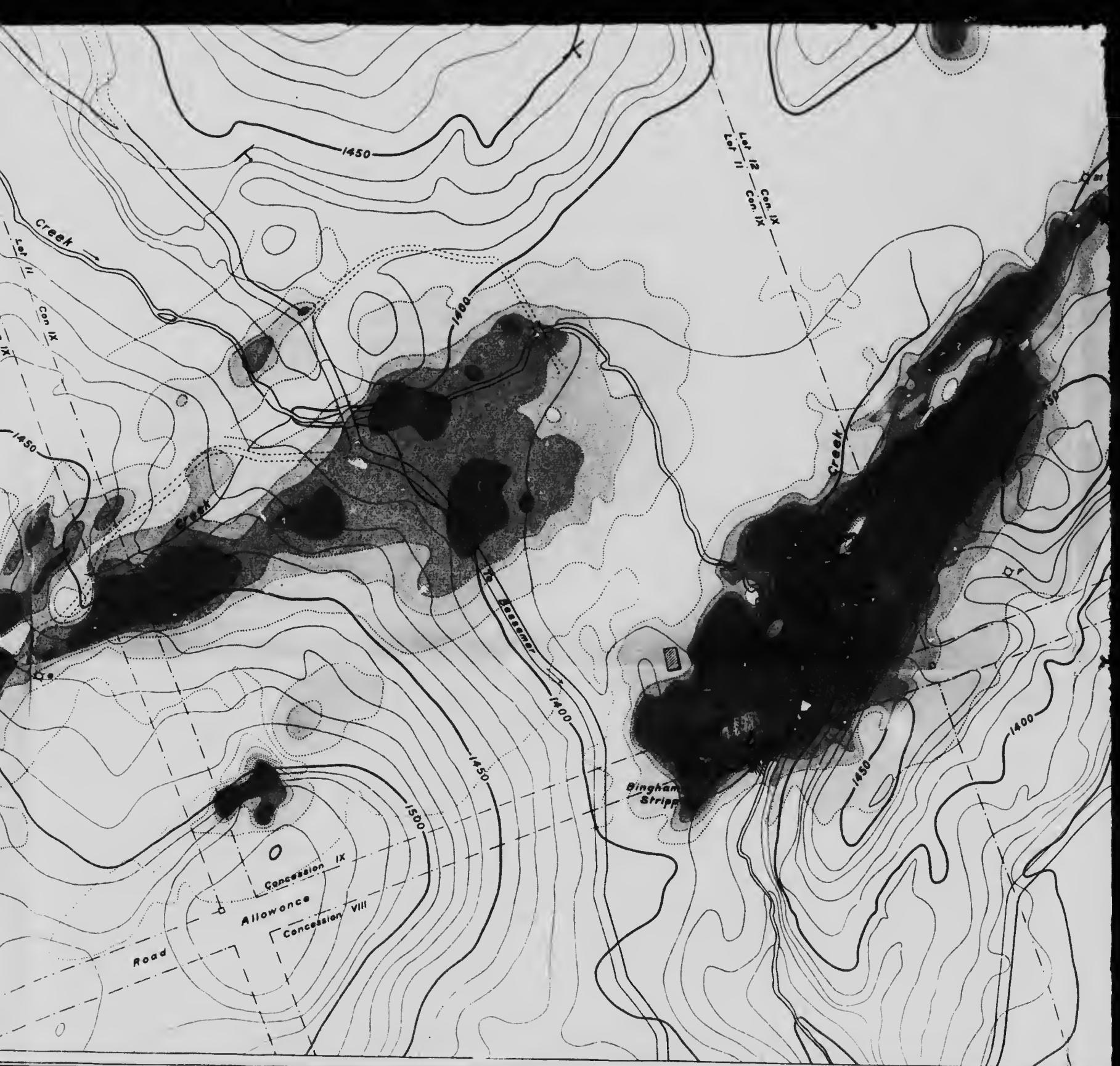
Magnetic attraction greater than -60°

Constant of Instrument = 1.0 H

Magnetic declination about 11° West

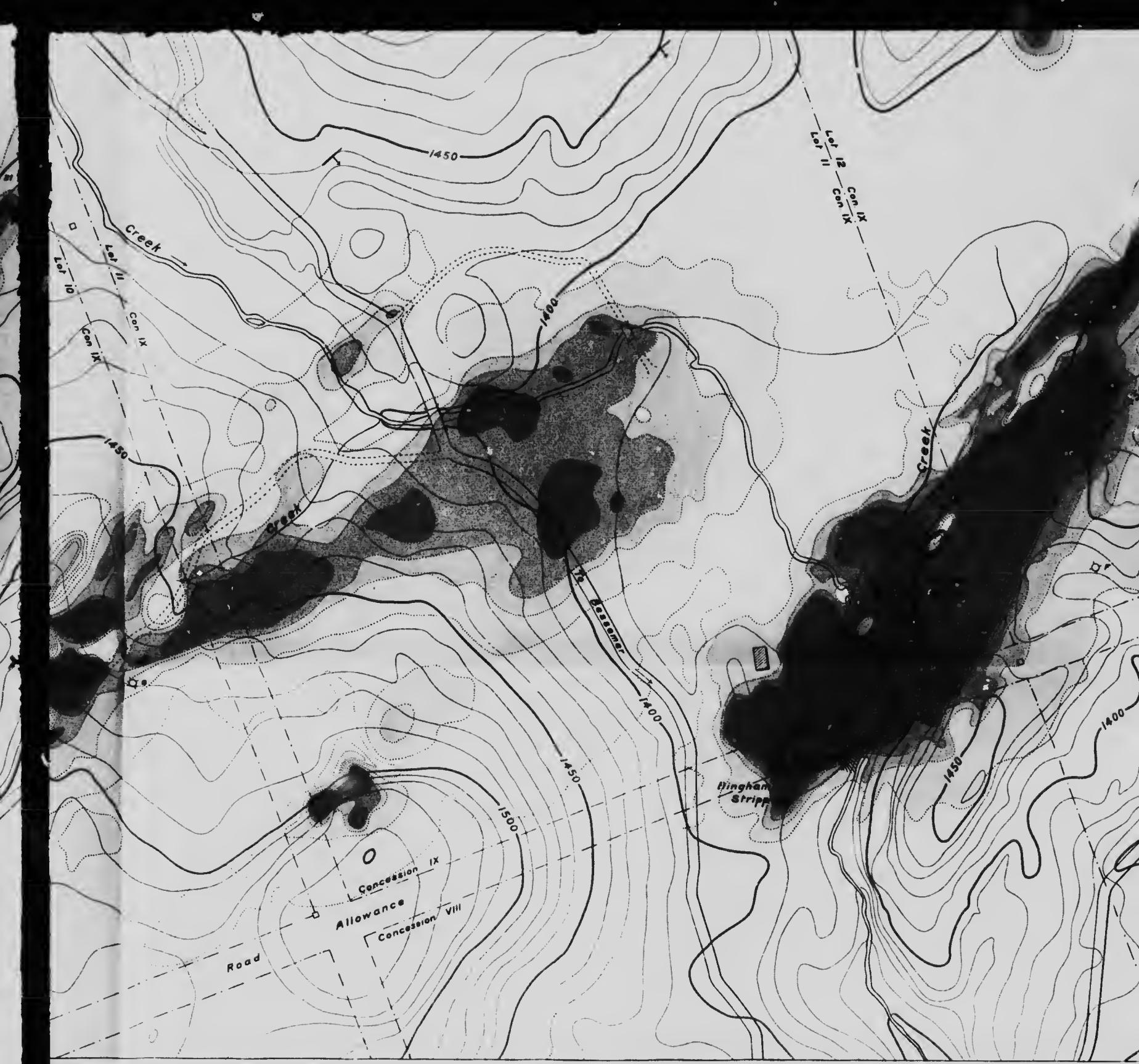


H. E. Baine, Chief Draughtsman  
L. H. S. Pereira, Draughtsman



**RANKIN, CHILDS AND STEPHENS IRON ORE DEPOSITS**  
**LOTS 10, 11, 12 AND 13, CON. IX**  
**TOWNSHIP OF MAYO**  
**HASTINGS COUNTY**  
**ONTARIO**

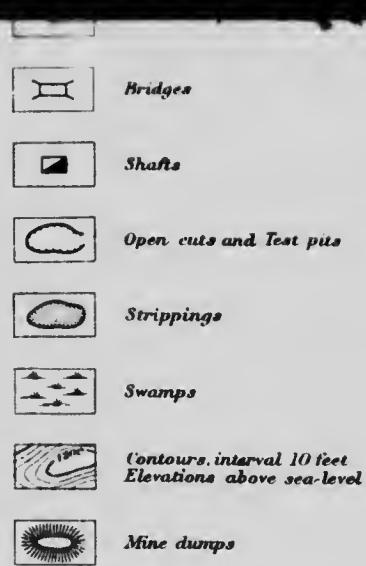
Scale 1 mile - 200' to 1 Inch  
100 200 300 400 500



**RANKIN, CHILDS AND STEPHENS IRON ORE DEPOSITS  
LOTS 10, 11, 12 AND 13, CON. IX  
TOWNSHIP OF MAYO  
HASTINGS COUNTY  
ONTARIO**

Scale miles - 200' to 1 Inch

100 200 300 400



NO. 192

Surveyed by  
H. Fréchette - 1908  
E. Lindeman - 1911  
Assisted by W. M. Morrison  
O. G. Gallaher



Drift-covered area within which  
Magnetite is likely to occur, indicated  
by Magnetometric Survey



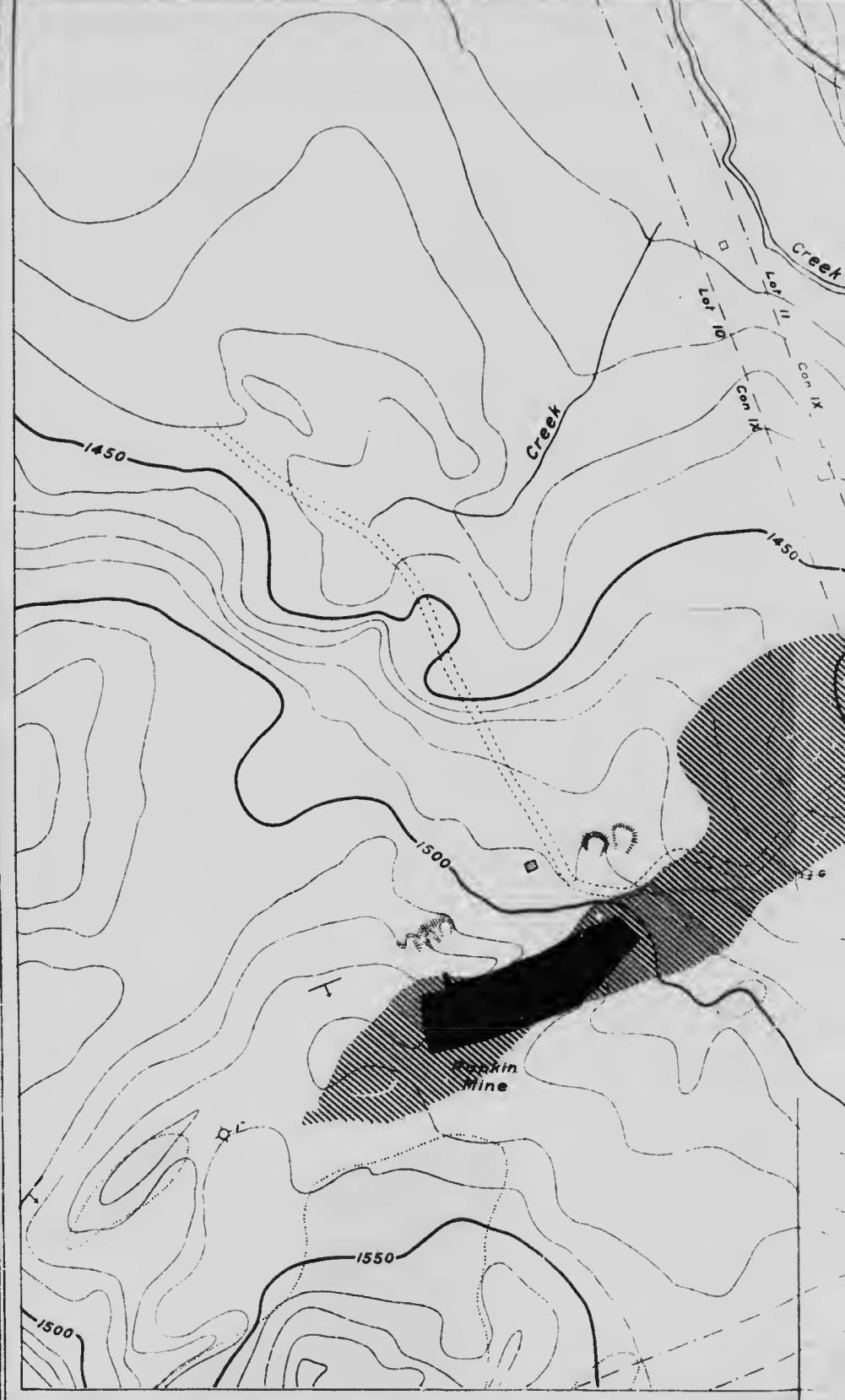
Crystalline lunarine Schists (Archaean)  
and amphibolites



Granite and granitgneiss "



Strike and dip

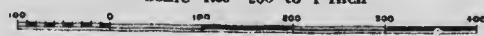


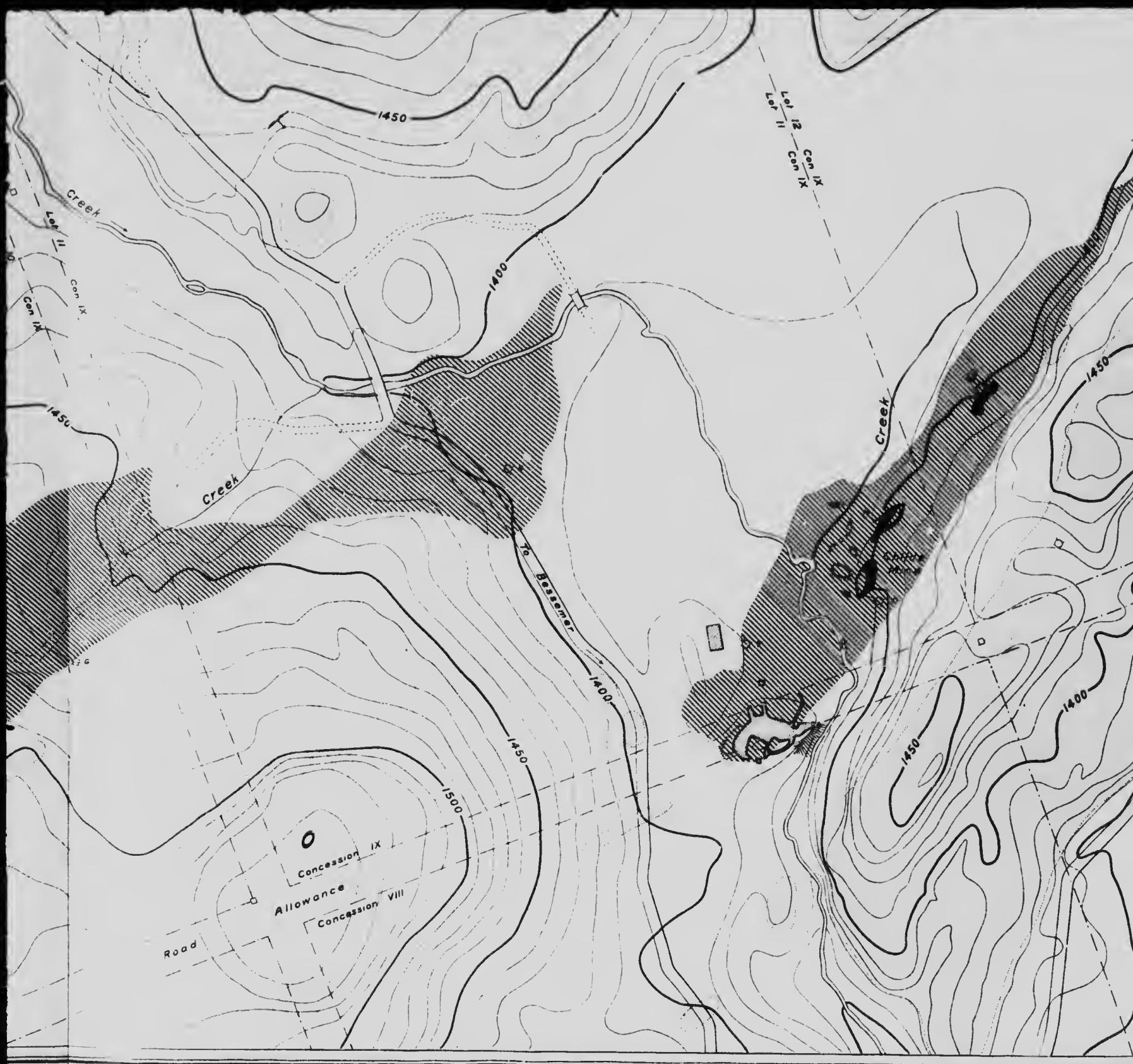
H. E. Baine, Chief Draughtsman  
L. H. S. Pereira, Draughtsman



**RANKIN, CHILDS AND STEPHENS IRON ORE DEPOSITS**  
**LOTS 10, 11, 12 AND 13, CON. IX.**  
**TOWNSHIP OF MAYO**  
**HASTINGS COUNTY**  
**ONTARIO**

Scale 100 - 200' to 1 Inch





**RANKIN, CHILDS AND STEPHENS IRON ORE DEPOSITS**  
**LOTS 10, 11, 12 AND 13, CON. IX**  
**TOWNSHIP OF MAYO**  
**HASTINGS COUNTY**  
**ONTARIO**

Scale 1:60 - 200' to 1 Inch





- Bridges
- Shafts
- Open cuts and Test pits
- Stripings
- Swamps
- Contours, interval 10 feet  
Elevations above sea-level
- Mine dumps

Geology by  
E. Lindeman 1911

NO. 192A

## MAGNETOMETRIC MAP

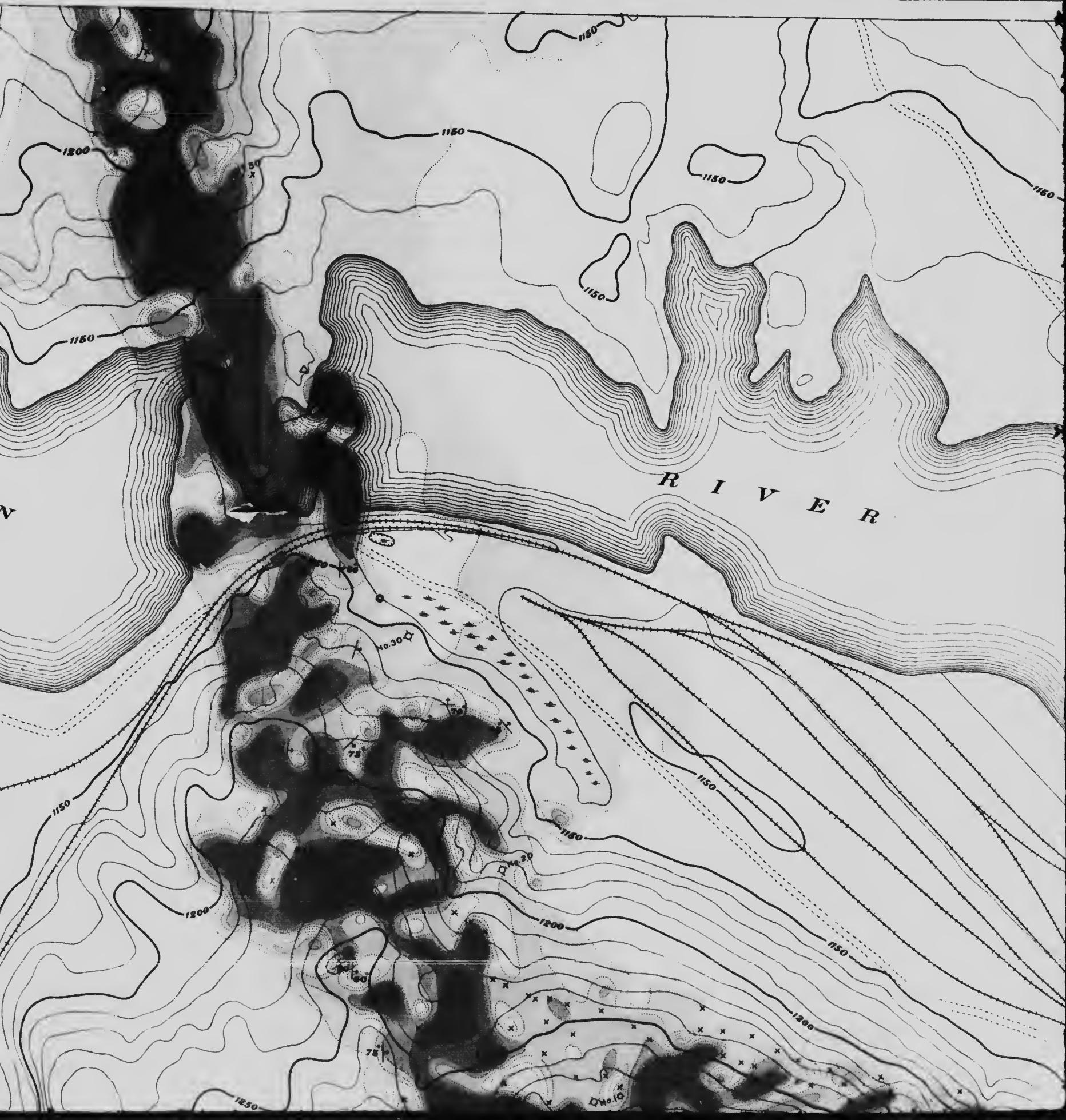


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EUGENE HAANEL, PH.D., DIRECTOR.

1913

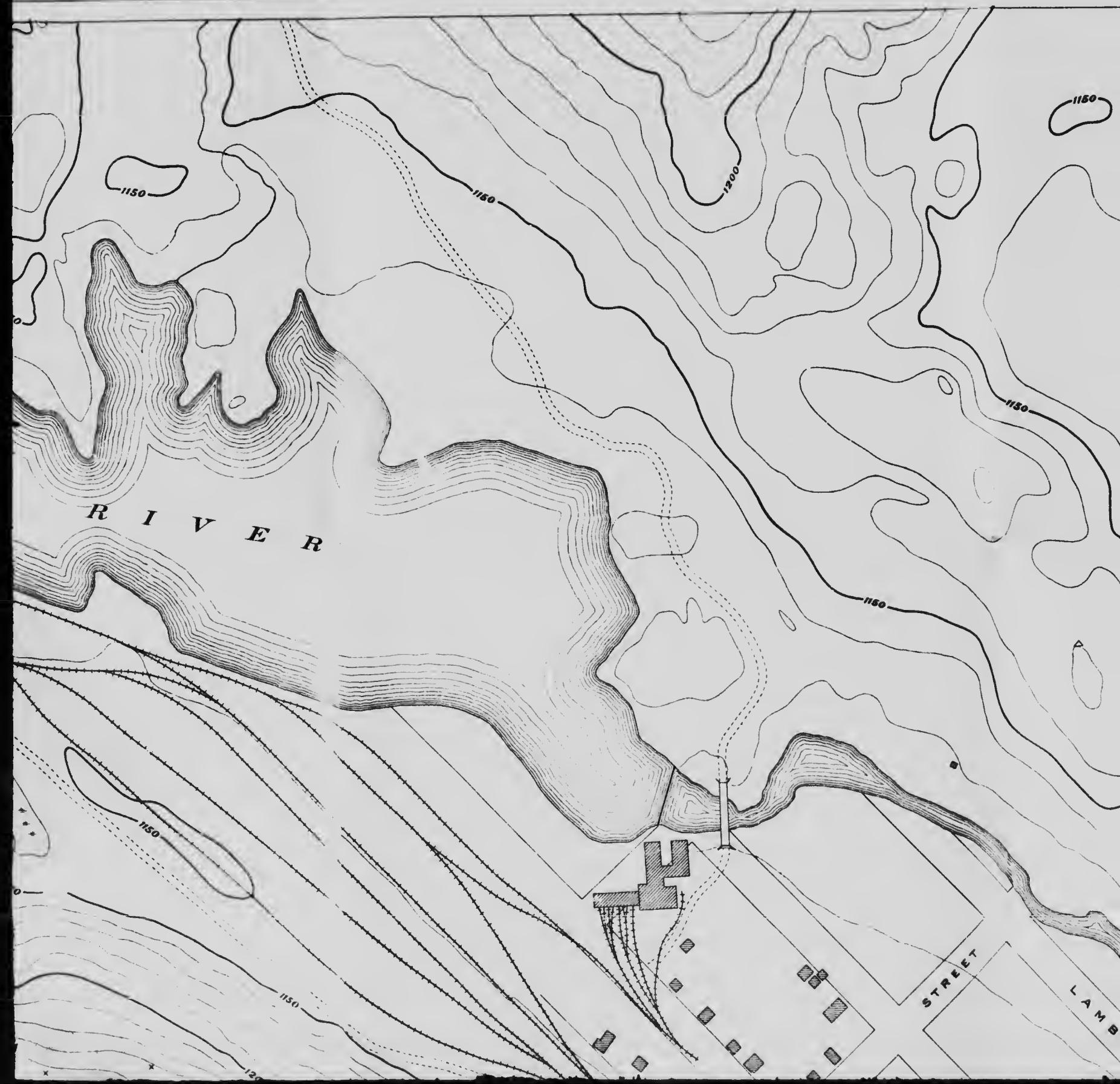
Join Sheet No. 206



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EUGENE HAANEL, PH.D., DIRECTOR.

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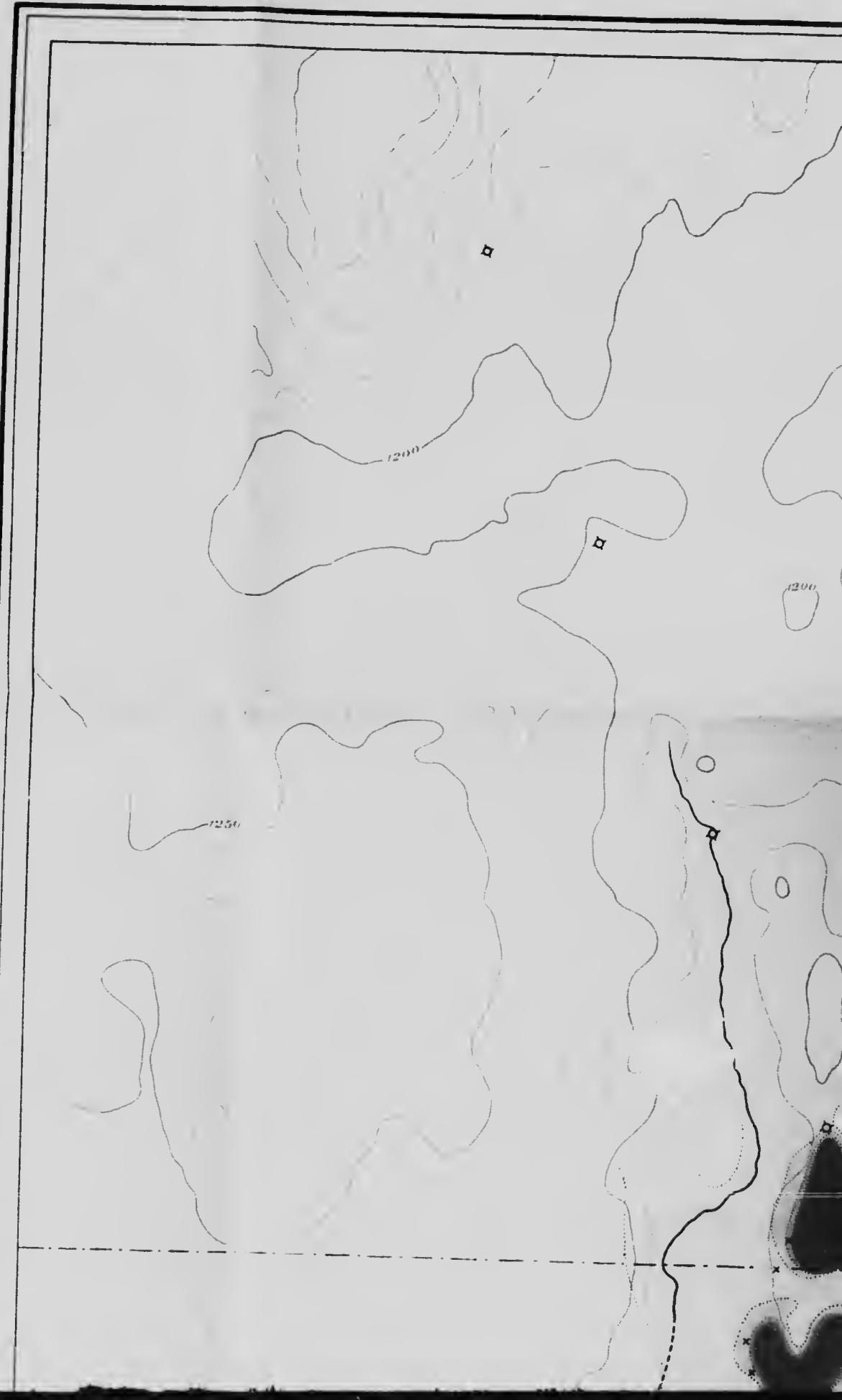
LEGEND



Roads and buildings

HON. LOUIS CODERRE,  
EUGEN

## MAGNETOMETRIC MAP



## LEGEND

*Isodynamic lines of the vertical  
magnetic intensity*

## Positive Intensity



Magnetic attraction greater than 60°



between 50° and 60°



between 40° and 50°



between 30° and 40°



between 0° and 20°

## Negative Intensity

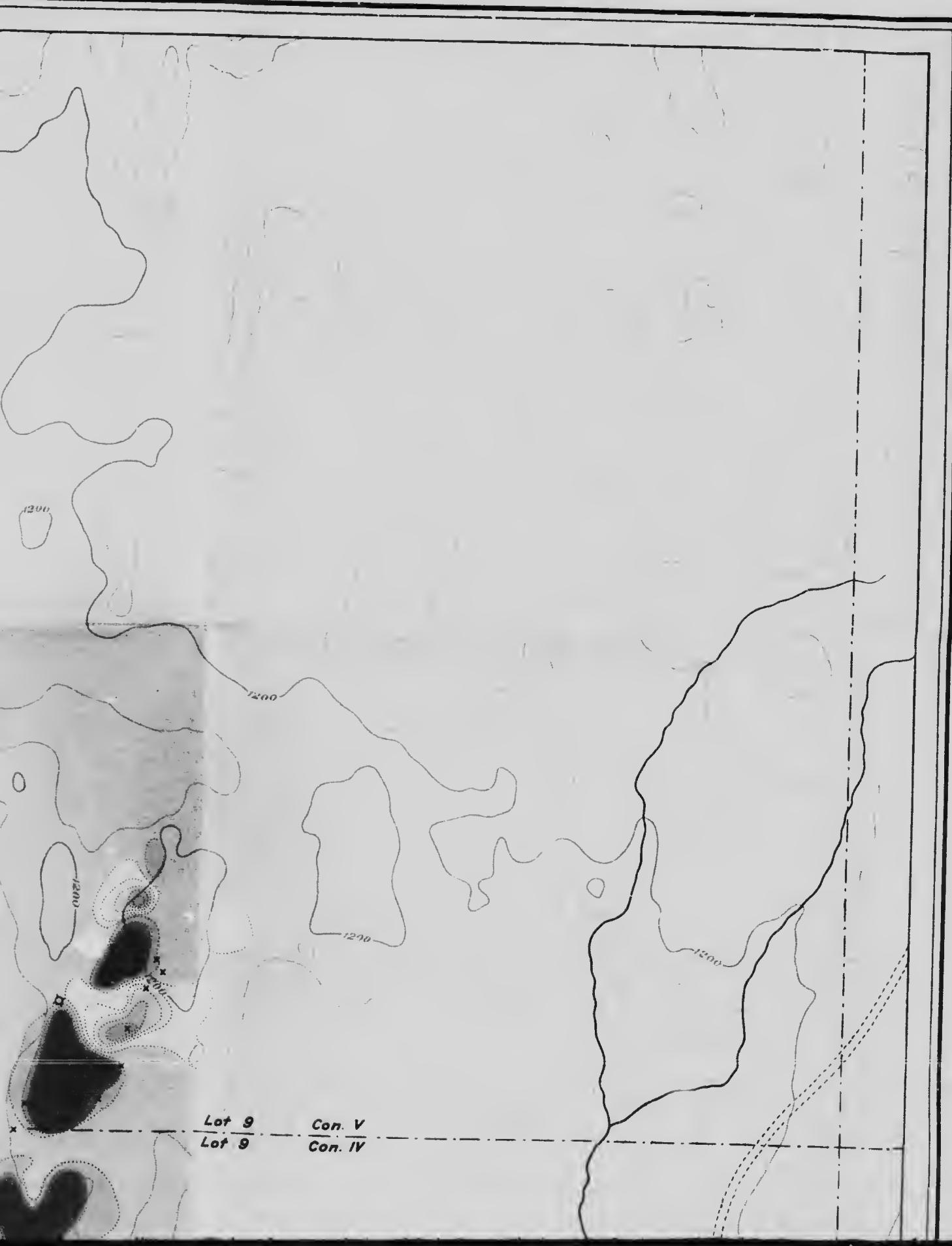
between 0° and 20°

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EUGENE HAANEL, PH.D., DIRECTOR

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LEGEND

- Road
- Lot lines
- Reference point
- Test pit

**MAGNETOMETRIC MAP**

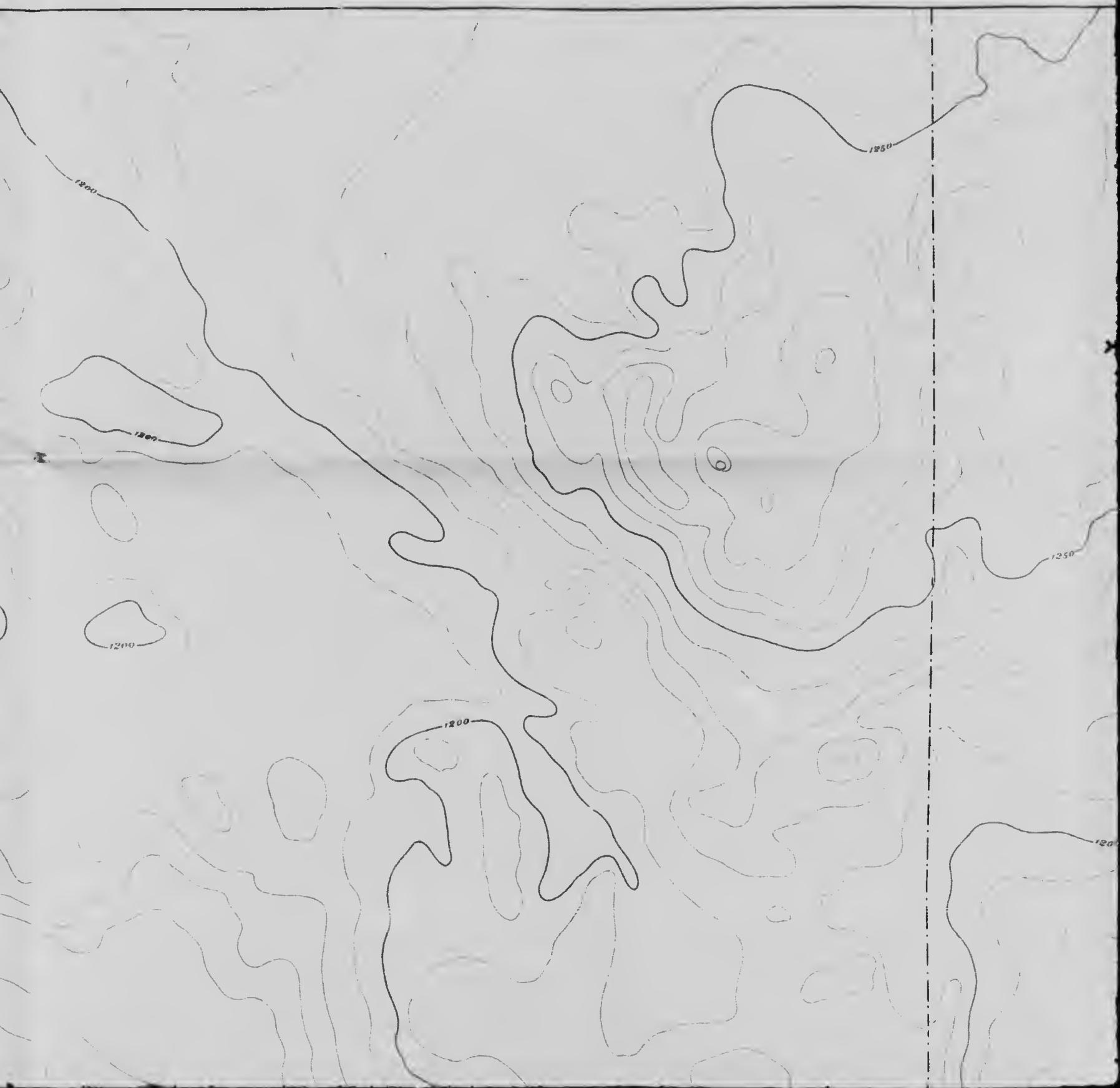


**LEGEND**

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EUGENE HAANEL, PH.D., DIRECTOR

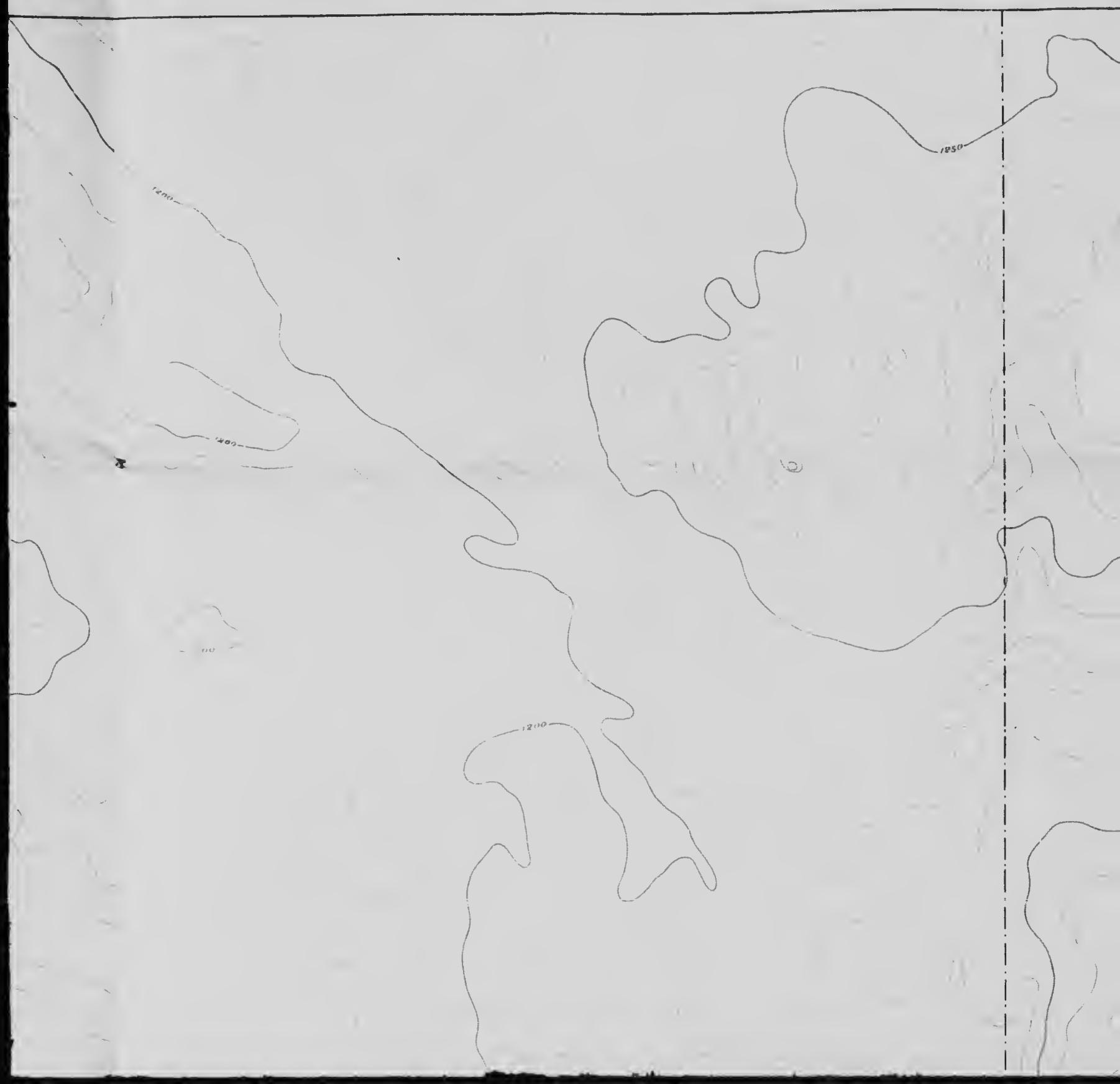
1913



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1913





### LEGEND

*Isodynamic lines of the vertical magnetic intensity*

#### Positive Intensity

[Solid black square]	Magnetic attraction greater than 60°		
[Dark gray square]	between	50°	- 60°
[Medium gray square]	"	40°	- 50°
[Light gray square]	"	20°	- 40°
[White square]	"	0°	- 20°

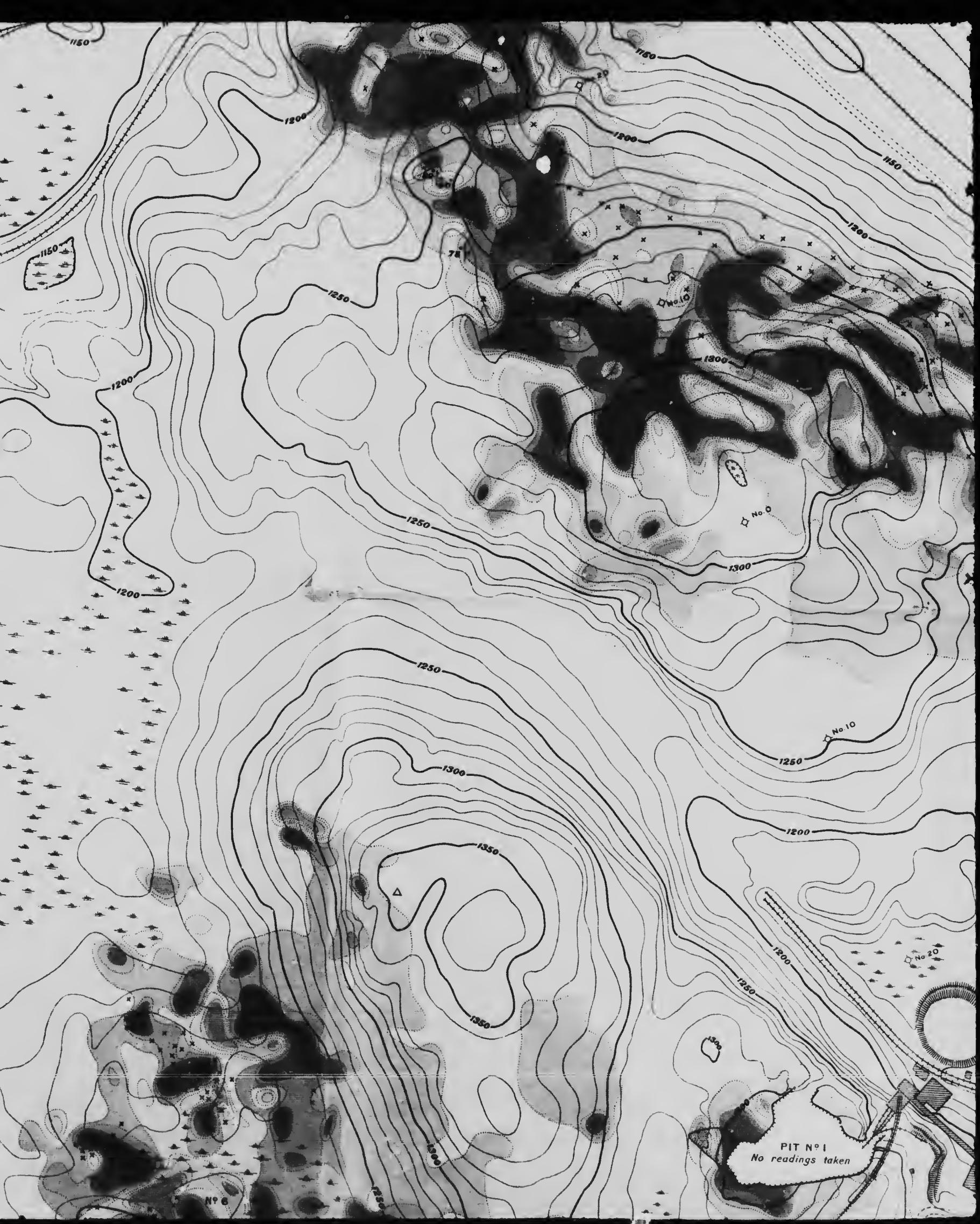
#### Negative Intensity

[White square]	between	0°	- 20°
[Light gray square]	"	- 20°	- 40°
[Medium gray square]	"	- 40°	- 50°
[Dark gray square]	"	- 50°	- 60°
[Solid black square]	Magnetic attraction greater than 60°		

Constant of Instrument = 1.0 H

Magnetic declination about 6° 55' West









### LEGEND

	<i>Roads and buildings</i>
	<i>Reference posts</i>
	<i>Railways</i>
	<i>Mine tramway</i>
	<i>Elevated tramway</i>
	<i>Bridges</i>
	<i>Diamond drill hole</i>
	<i>Test pits</i>
	<i>Triangulation stations</i>
	<i>Open cuts</i>
	<i>Steppings</i>
	<i>Dams</i>
	<i>Streams</i>
	<i>Swamps</i>
	<i>Ponds</i>
	<i>Contours interval 10 feet</i>
	<i>Mine dumps</i>

Jones Sheet No. 207

Contours showing heights above sea level  
based on an elevation supplied by the  
Mouse Mountain Limited

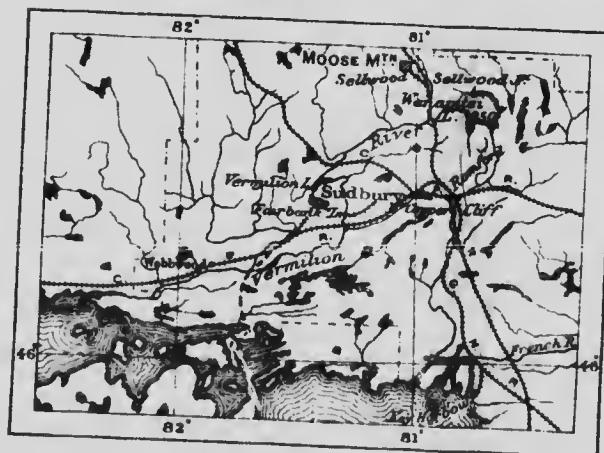
20 10  
 40° 50°  
 " 50 60  
 Magnetic attraction greater than 6.1

Constant of Instrument 10 H

Magnetic declination about 8° 55' west



H. E. Baine, Chief Draughtsman  
L. H. S. Pereira, Draughtsman



Scale 35 miles to 1 inch

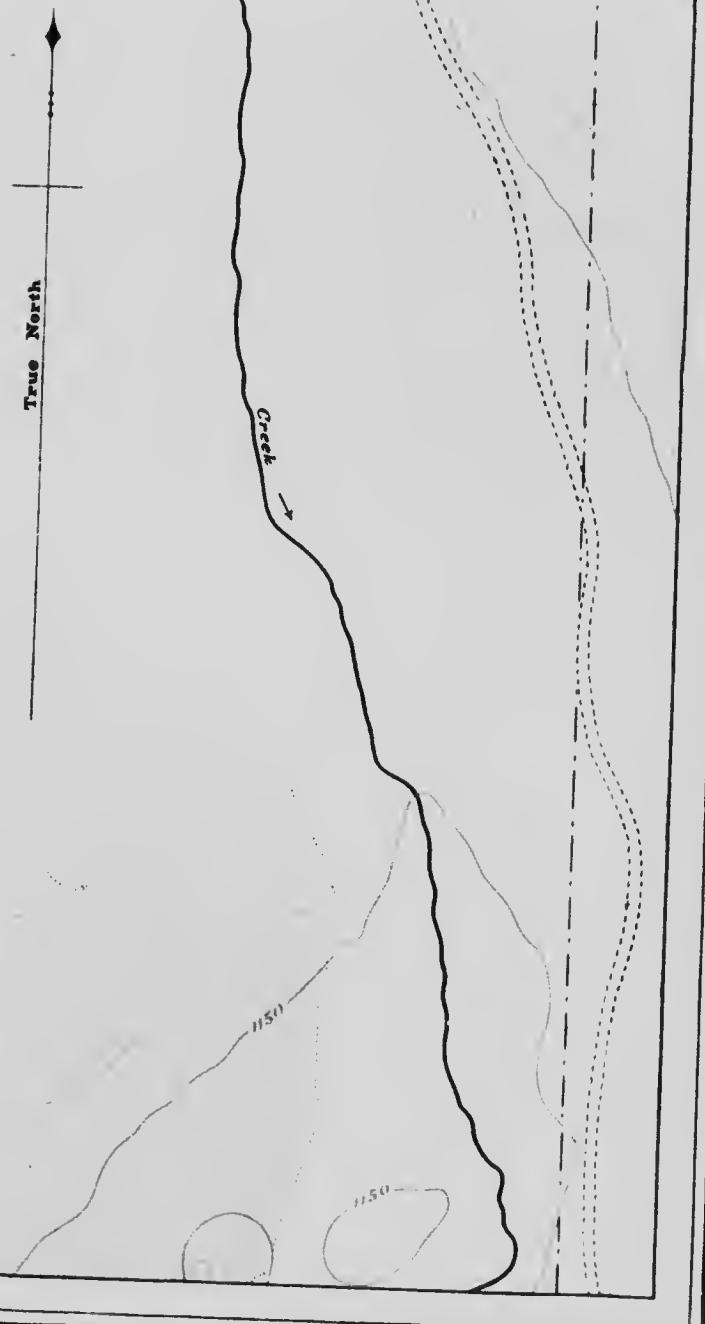
**NORTHERN PORTION  
MOOSE MOUNTAIN II  
HUTTON TOWNSHIP  
ON**

Scale,  $\frac{1}{3500}$  =  
100 150 200 50 0 200

Streams

Contours, interval 10 feet

Contours showing heights above sea level  
based on an elevation supplied by the  
Moose Mountain Limited.



Join Sheet 205

N PORTION OF DEPOSIT N° 2  
IN IRON BEARING DISTRICT  
NSHIP. SUDBURY DISTRICT  
ONTARIO

N° 206

Surveyed by  
E. LINDEMAN 1912  
Assisted by  
A. H. A. ROBINSON  
W. M. MORRISON  
W. H. DAVIES

1/2000 = 200 Feet to 1 Inch

200 400 600 800

LEGEND

*Isohypsic lines of the vertical magnetic intensity*

Direction Intensity

[Solid black square]	Magnetic attraction greater than 60°		
[Dark gray square]	between	50°	60°
[Medium gray square]	"	40°	50°
[Light gray square]	"	20°	40°
[White square]	"	0°	20°

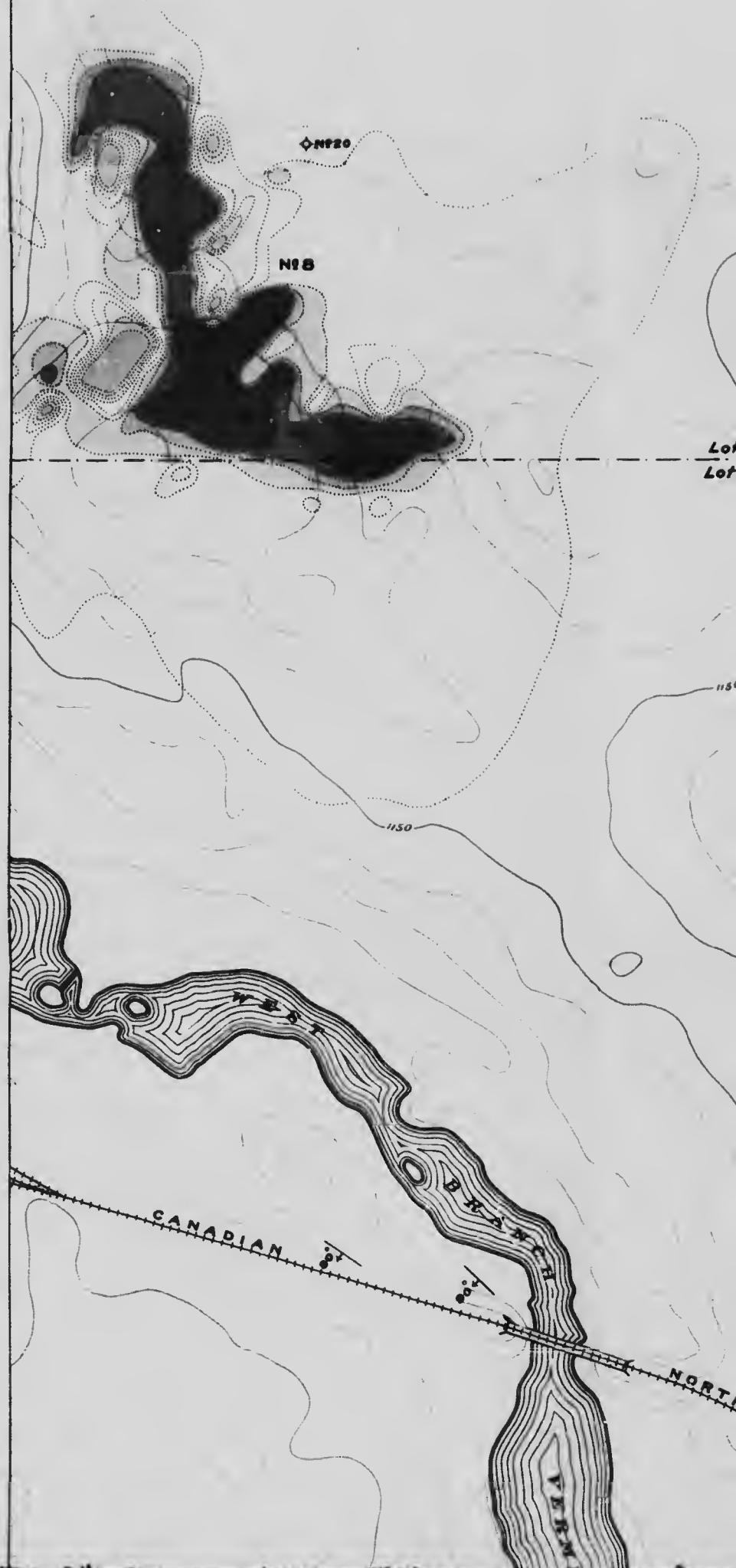
Negative Intensity

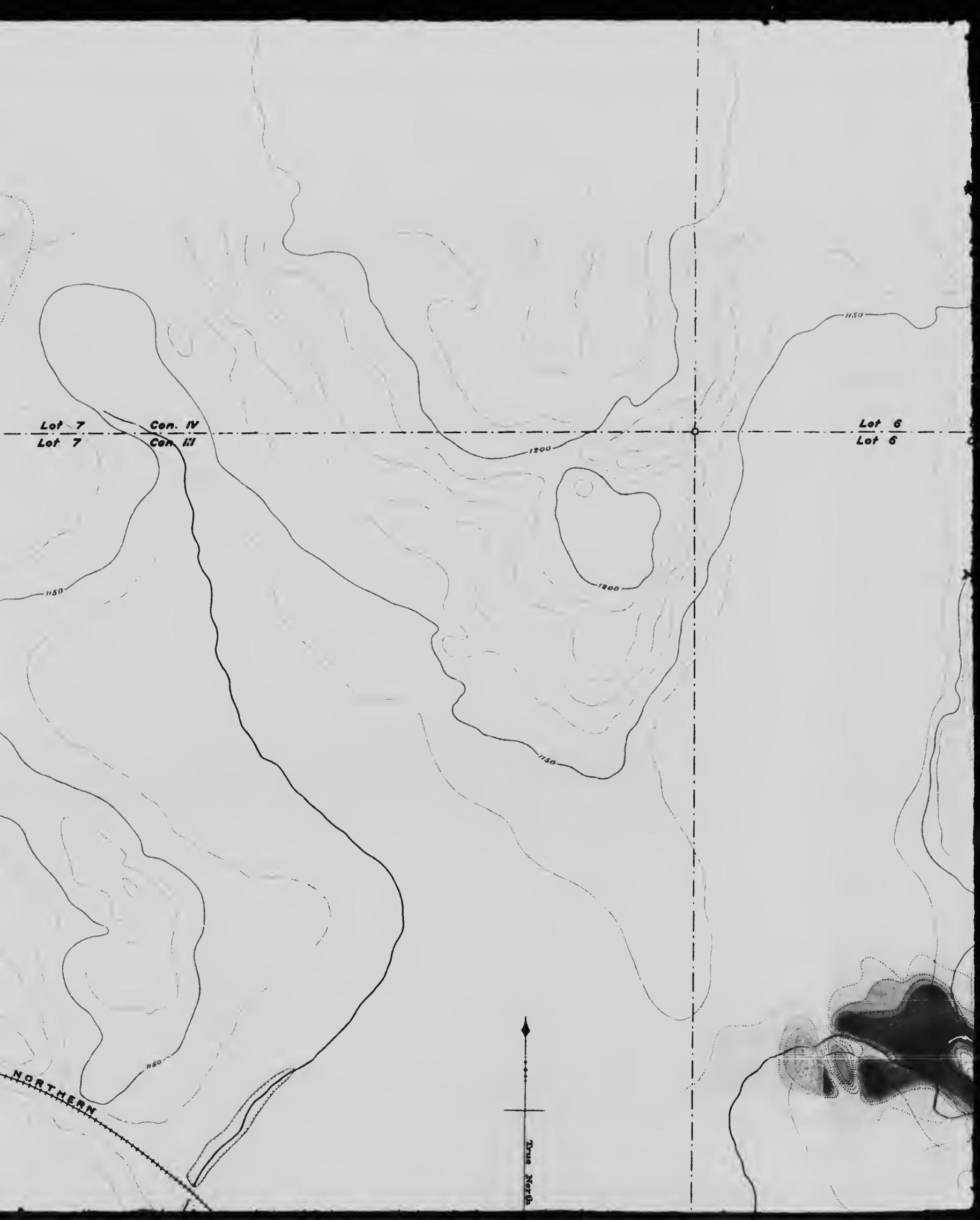
[White square]	between	0°	-20°
[Light gray square]	"	-20°	-40°
[Medium gray square]	"	-40°	-50°
[Dark gray square]	"	-50°	-60°
[Solid black square]	Magnetic attraction greater than -60°		

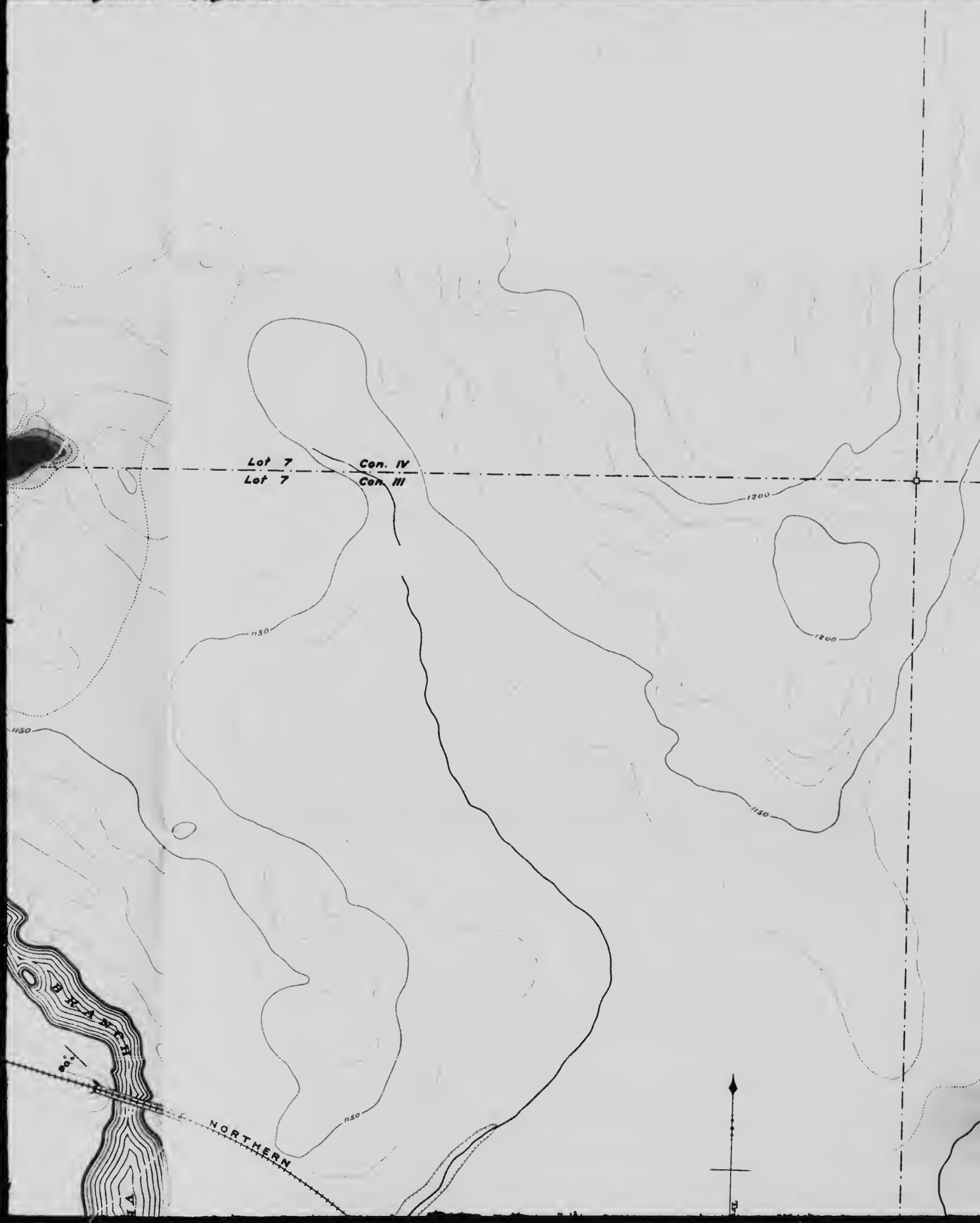
Constant of Instrument = 1.0 H

Magnetic declination about 6°55' west

Sheet Np 205



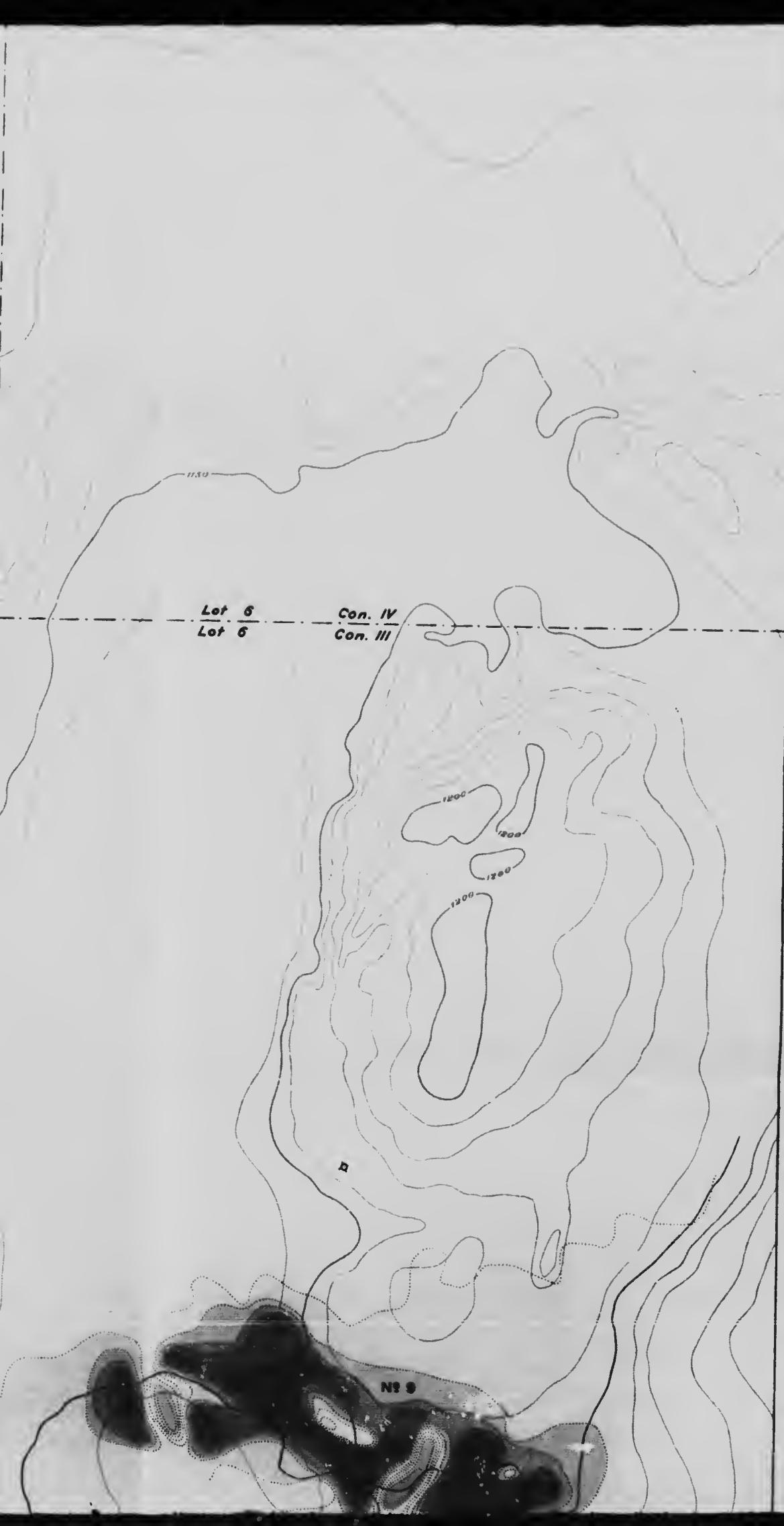




**LEGEND**

-  Corner post and Lot lines
-  Reference posts
-  Railway
-  Bridge
-  Dam
-  Streams
-  Contours, interval 10 feet
-  Depression contour

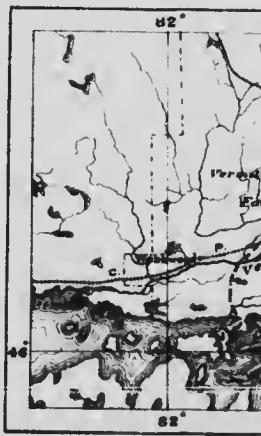
Contours showing heights above sea-level  
based on an elevation supplied by the  
Moose Mountain Limited.



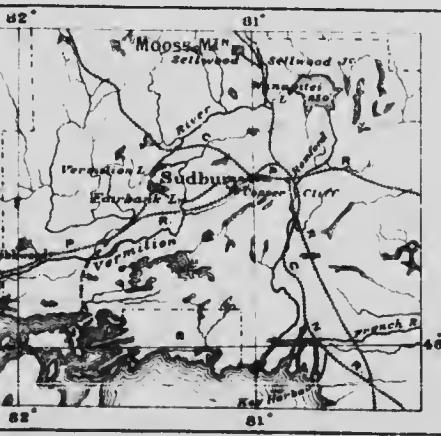
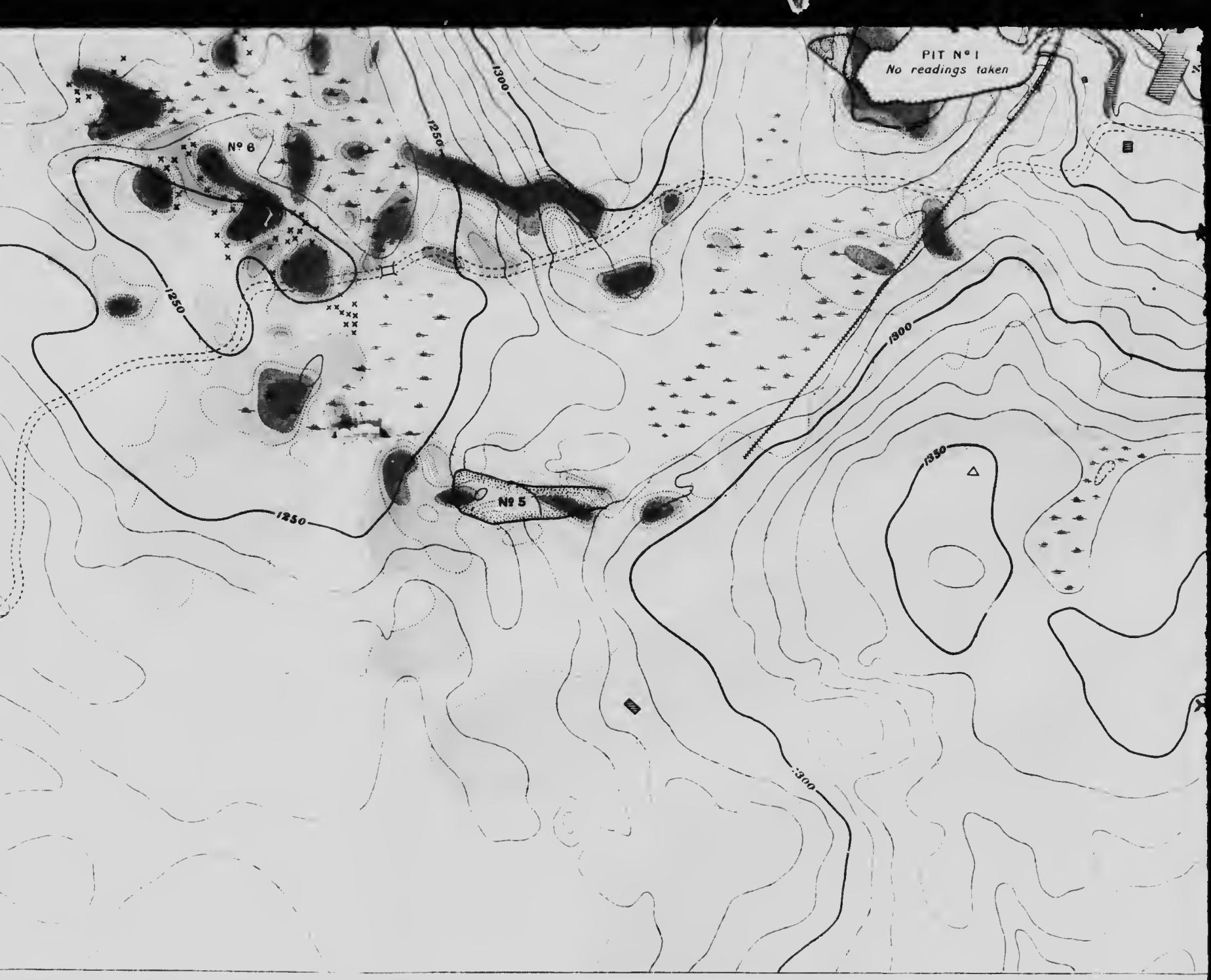
True North



H E Baine, Chief Draughtsman  
L H S Pereira, Draughtsman.



Scale.

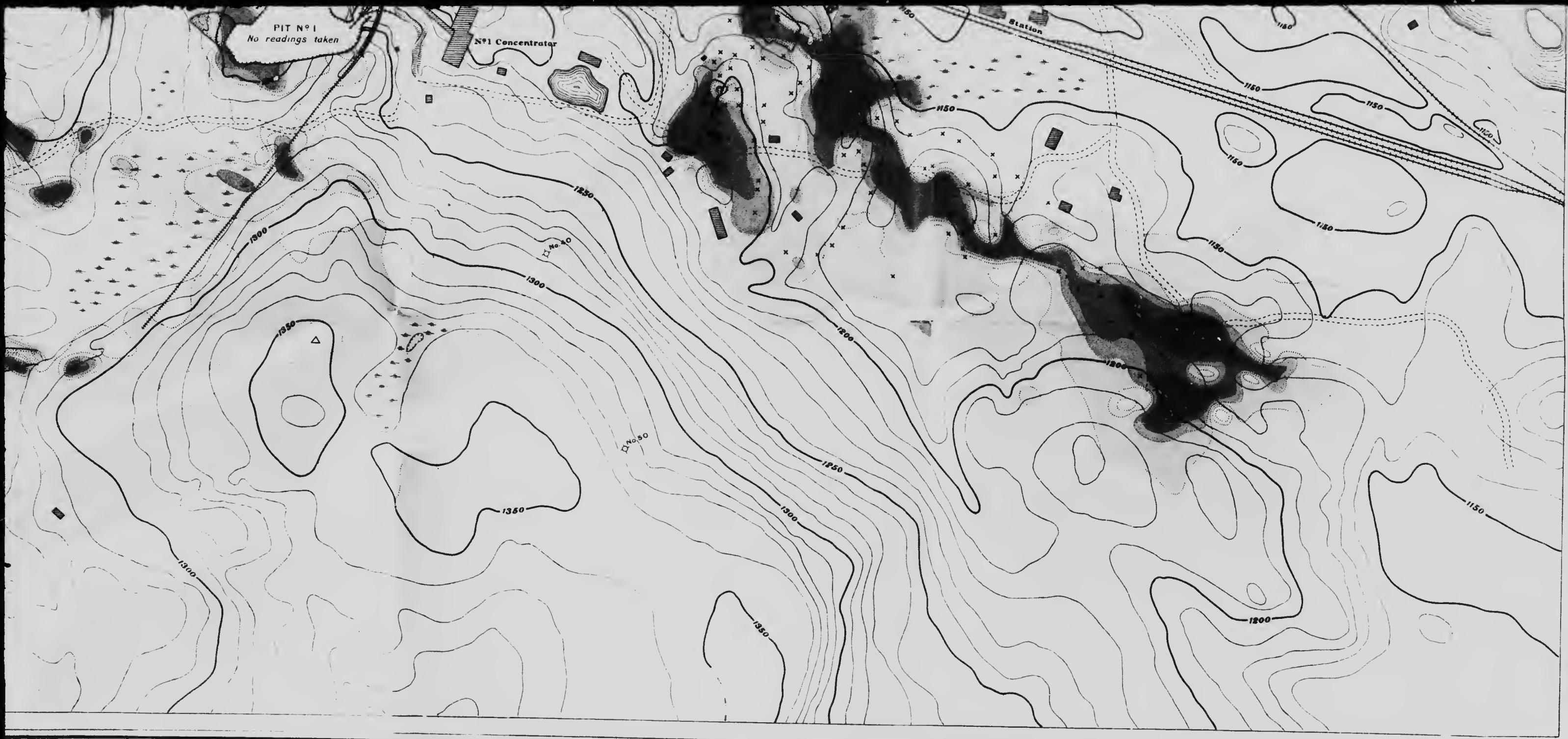


## MOOSE MOUNTAIN IRON BEAR

HUTTON TOWNSHIP, SUDBURY  
ONTARIO

Scale,  $\frac{1}{200}$  200 Feet to 1 Inch

200	150	100	50	0	200	100
-----	-----	-----	----	---	-----	-----



N° 205

**MOOSE MOUNTAIN IRON BEARING DISTRICT**  
**HUTTON TOWNSHIP, SUDBURY DISTRICT**  
**ONTARIO**

Surveyed by  
 E. LINDEMAN, 1912  
 Assisted by  
 A. H. ROBINSON  
 W. M. MORRISON  
 W. H. DAVIES

Scale  $\frac{1}{2000}$  0 Feet to 1 Inch  
 200 150 100 50 0 200 400 600 800

**Canada**  
**DEPARTMENT OF MINES**  
**MINES BRANCH**

Hon. LOUIS COEUR, MINISTER A. P. LOW, LL.D., DEPUTY MINISTER  
 EUGENE HANDEL, Ph.D., DIRECTOR  
 1913

**MAGNETOMETRIC MAP**

**LEGEND**

 Isodynamic lines of the vertical magnetic intensity

**Positive Intensity**

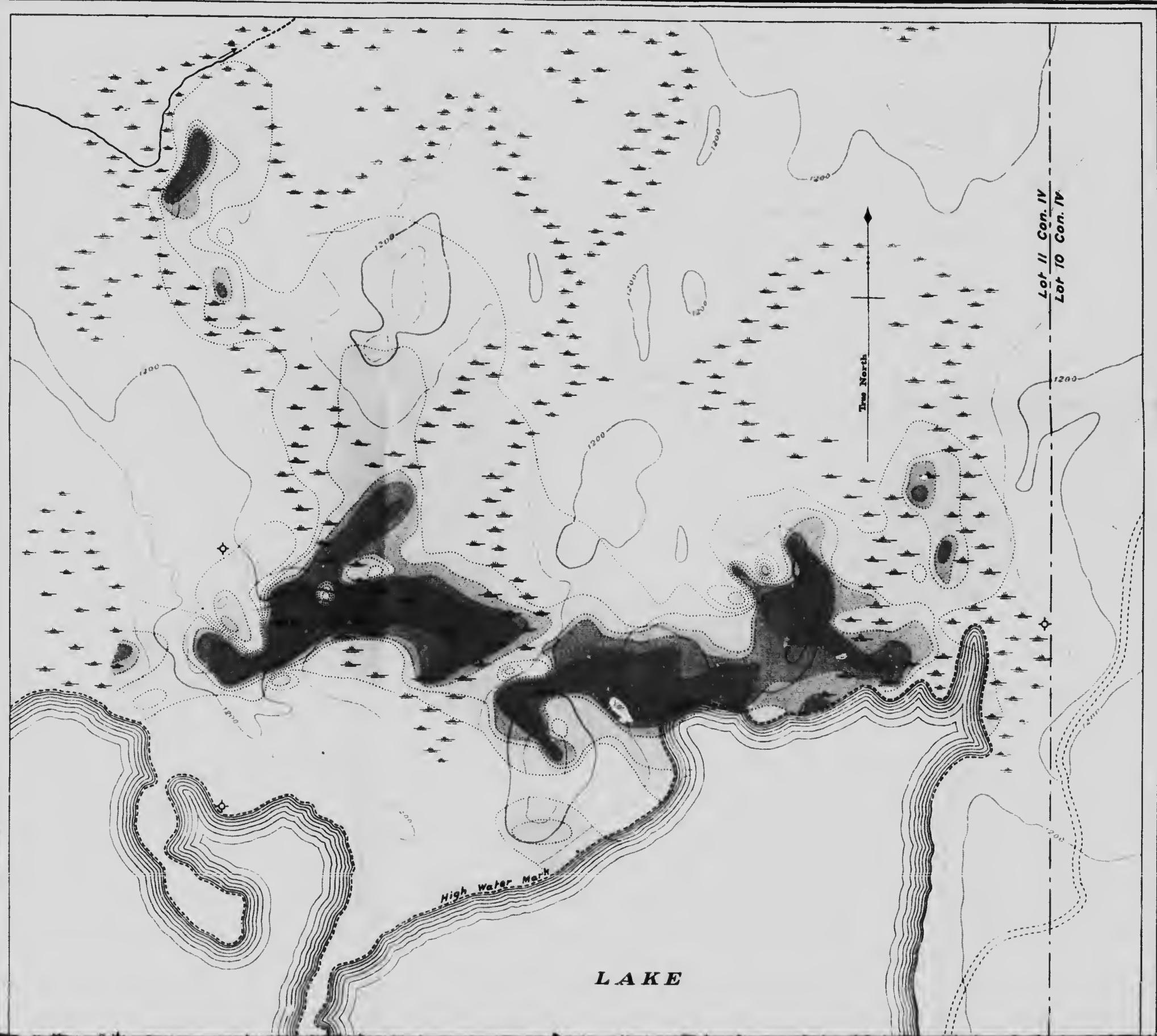
	Magnetic attraction greater than 60°
	between 50° - 60°
	40° - 50°
	20° - 40°
	0° - 20°

**Negative Intensity**

	between 0° - 20°
	- 20° - - 40°
	- 40° - - 50°
	- 50° - - 60°

Constant of instrument = 1.0 H

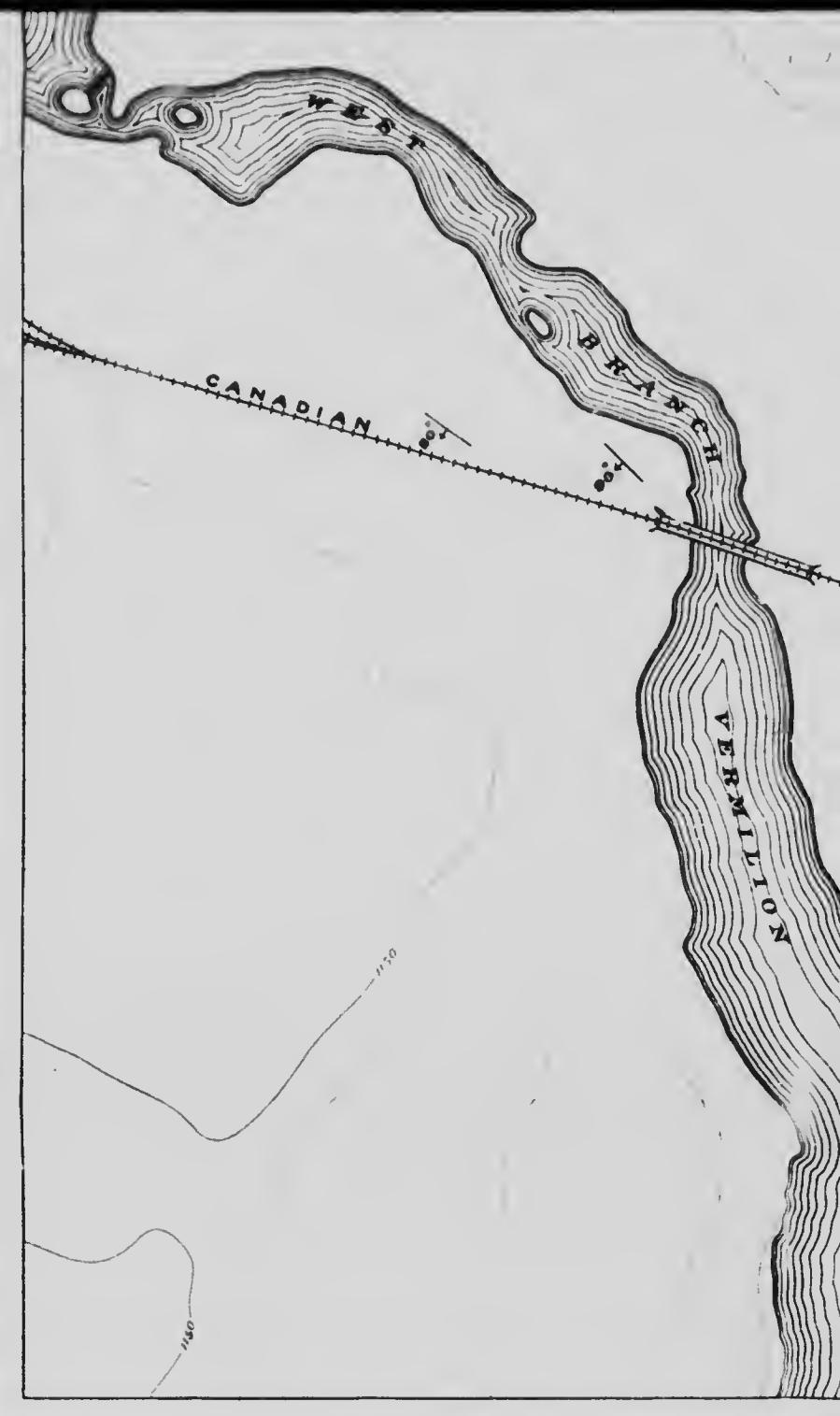
Magnetic variation about 6°55' west



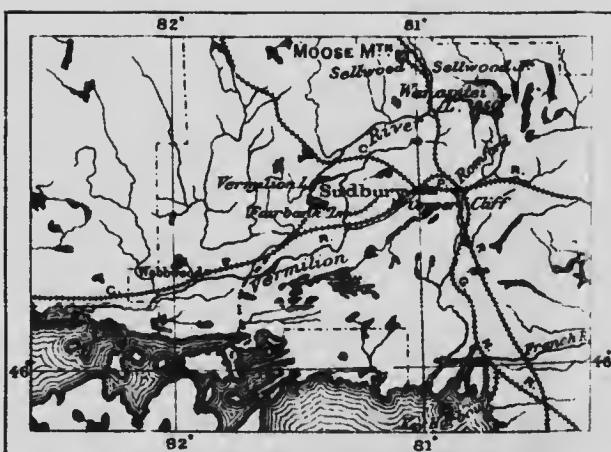
**LEGEND**

	Road
	Lot line
	Reference posts
	Stream
	Swamps
	Contours, interval 10 feet

Contours showing heights above sea level based on an elevation supplied by the Moose Mountain Limited.



H. E. Bain, Chief Draughtsman  
L. H. S. Pereira, Draughtsman



Scale : 35 miles to 1 inch



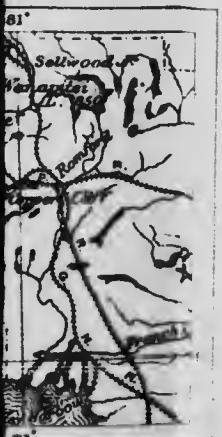
DEPOSITS N<sup>o</sup>s 8, 9 AND 9<sup>A</sup>  
**MOOSE MOUNTAIN IRON BEARING DISTRICT**  
HUTTON TOWNSHIP, SUDBURY DISTRICT  
ONTARIO

Scale,  $\frac{1}{200}$  : 200 Feet to 1 Inch



61°  
Sullivan  
Vermilion  
et al.

DEPOSITS NOS 8, 9 AND 9A  
**MOOSE MOUNTAIN IRON BEARING DISTRICT**  
 HUTTON TOWNSHIP, SUDBURY DISTRICT  
 ONTARIO



Scale,  $\frac{1}{200}$  : 200 Feet to 1 Inch  
 200 150 100 50 0      200 400 600 800



Nº 207

RICT

*Surveyed by*  
**E. LINDEMAN 1919**  
*Assisted by*  
**A. H. A. ROBINSON**  
**W. M. MORRISON**  
**W. H. DAVIES**

LEGEND



*Isodynamic lines of the vertical  
magnetic intensity*

Positive Intensity



Magnetic attraction greater than 60°



between 50° - 60°



" 40° - 50°



" 20° - 40°



" 0° - 20°

Negative Intensity



between 0° - -20°



" - 20° - -40°



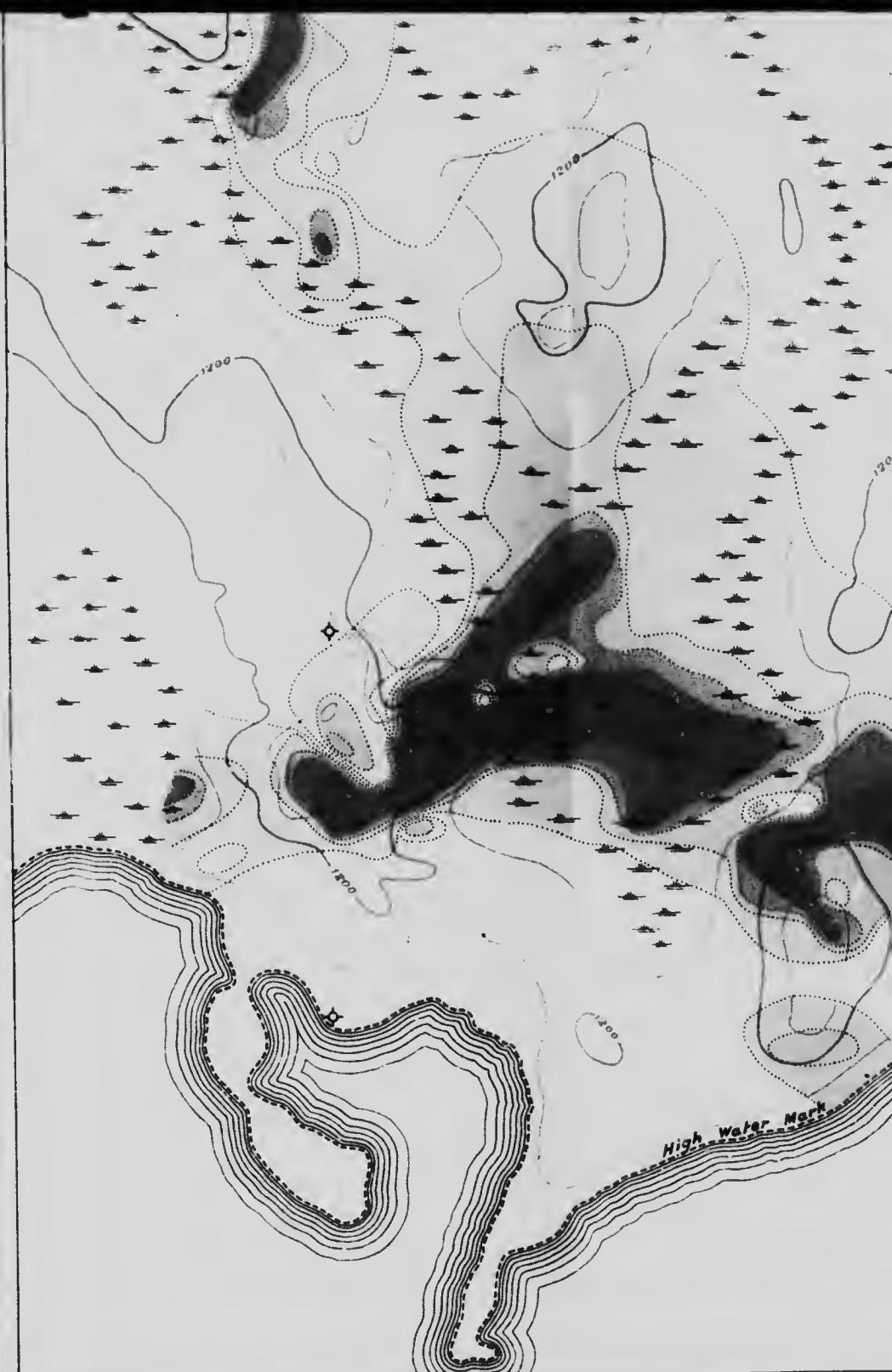
" - 40° - -50°



" - 50° - -60°

Constant of Instrument = 1.0 H

Magnetic declination about 6°55' west

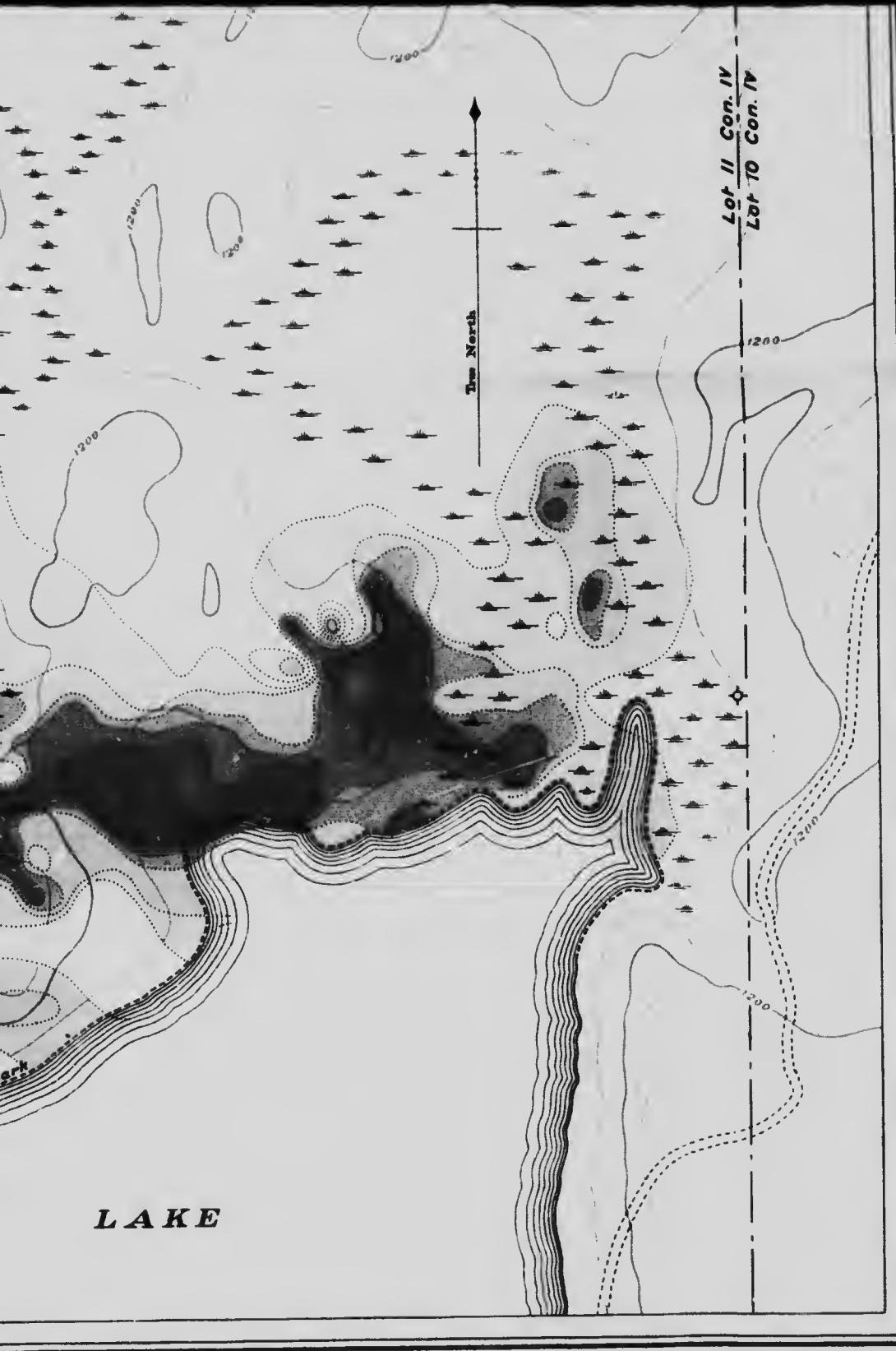


H. E. Baine, Chief Draughtsman  
L. H. S. Pereira, Draughtsman

DEPOSIT  
**MOOSE MOUNTAIN IRON**  
HUTTON TOWNSHIP, S.  
ONTARIO

Scale,  $\frac{1}{2500}$  : 200

200 150 100 50 0 200



N°208

**DEPOSIT N° 10  
IRON BEARING DISTRICT  
SHIP, SUDBURY DISTRICT  
ONTARIO**

200 Feet to 1 Inch

000 400 600

Surveyed by  
E. LINDEMAN 1912  
Assisted by  
A. H. A. ROBINSON  
W. M. MORRISON  
W. H. DAVIES

**LEGEND**

- Road
- Lot line
- Reference posts
- Stream
- Swamps
- Contours, interval 10 feet

Contours showing heights above sea-level  
based on an elevation supplied by the  
Moose Mountain Limited.

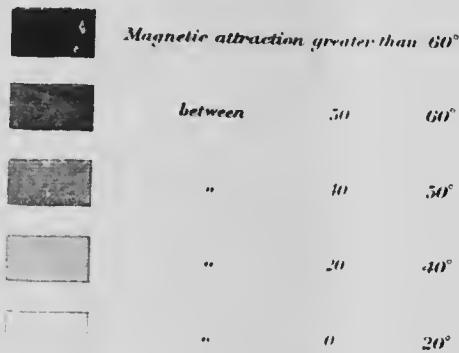


## MAGNETOMETRIC MAP

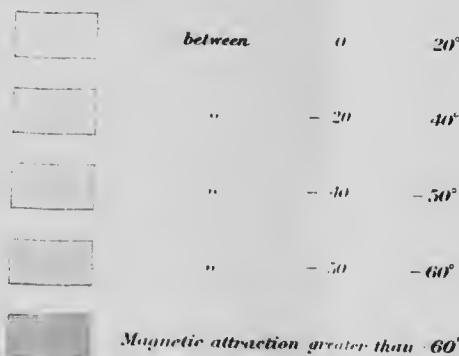
### LEGEND

*Isodynamic lines of the vertical magnetic intensity*

#### Positive Intensity



#### Negative Intensity



Constant of Instrument 1.0 H

Magnetic declination about 6° 55' West

φ C

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**DEPARTMENT OF MINES**  
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HON. LOUIS CODERRE, MINISTER A.P. LOW, LL.D., DEPUTY MINISTER  
EUGENE HAANEL, PH.D., DIRECTOR

1913

DEPOSIT N° 11  
**MOOSE MOUNTAIN IRON BEARING DISTRICT**  
HUTTON TOWNSHIP, SUDBURY DISTRICT  
ONTARIO

Scale,  $\frac{1}{200}$  : 200 Feet to 1 Inch



True North

Surveyed  
E.  
Assisted  
A.H.  
W.M.  
W.H.

Canada  
DEPARTMENT OF MINES  
MINES BRANCH

HON. LOUIS CODERRE, MINISTER A.P. LOW, LL.D., DEPUTY MINISTER  
EUGENE HAANEL, PH.D., DIRECTOR

1913

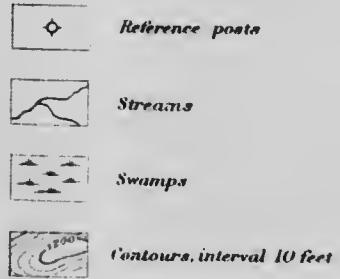
DEPOSIT N° 11  
**MOOSE MOUNTAIN IRON BEARING DISTRICT**  
HUTTON TOWNSHIP, SUDBURY DISTRICT  
ONTARIO

Scale,  $\frac{1}{4000}$  : 200 Feet to 1 Inch



Surveyed by  
E. Lindeman 1912  
Assisted by  
A.H.A. Robinson  
W.M. Morrison  
W.H. Davies

### LEGEND



*Contours showing heights above sea-level  
based on an elevation supplied by the  
Moose Mountain Limited.*

## MAGNETOMETRIC MAP

### LEGEND



*Hydrodynamic lines of the vertical  
magnetic intensity*

#### Positive Intensity



*Magnetic attraction greater than 60°*



*between 50° - 60°*



*" 40° - 50°*



*" 20° - 40°*



*" 0° - 20°*

#### Negative Intensity



*between 0° - - 20°*



*" - 20° - - 40°*



*" - 40° - - 50°*



*" - 50° - - 60°*

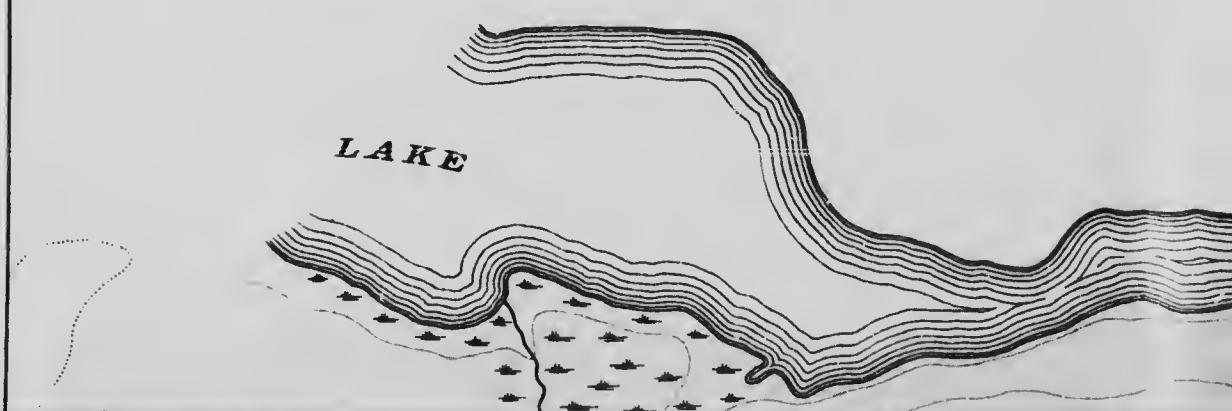


*Magnetic attraction greater than -60°*

*Constant of Instrument = 1.0 H*

*Magnetic declination about 6° 55' West*

**LAKE**



Canada  
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EUGENE HAANEL, PH.D., DIRECTOR

1913

DEPOSIT N° 11  
**MOOSE MOUNTAIN IRON BEARING DIS**  
KITCHENER AND HUTTON TOWNSHIPS, SUDBURY D  
ONTARIO

Scale, ~~True~~ : 200 feet to 1 Inch



True North

HUTTON  
KITCHENER

BRANCH

Canada  
DEPARTMENT OF MINES  
MINES BRANCH

HON. LOUIS CODERRE, MINISTER A P LOW, LL.D., DEPUTY MINISTER  
EUGENE HAANEL, PH.D., DIRECTOR

1913

DEPOSIT N° 11

MOOSE MOUNTAIN IRON BEARING DISTRICT  
KITCHENER AND HUTTON TOWNSHIPS, SUDBURY DISTRICT  
ONTARIO

Scale,  $\frac{1}{200}$  : 200 Feet to 1 Inch



Surveyed by  
E. Lindeman 1912  
Assisted by  
A.H.A. Robinson  
W.M. Morrison  
W.H. Davies



LEGEND.

-  Road and buildings
-  Corner post and Lot lines
-  Reference posts
-  Test pits
-  Shaft
-  Stripplings
-  Streams
-  Swamps
-  Contours, interval 10 feet.

Contours showing heights above sea-level  
based on an elevation supplied by the  
Moose Mountain Limited.



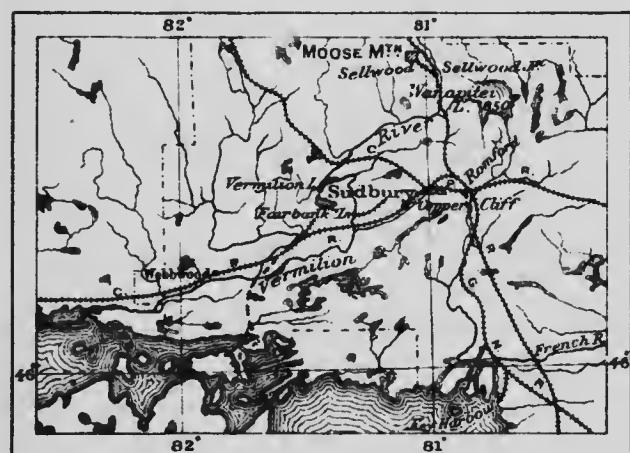
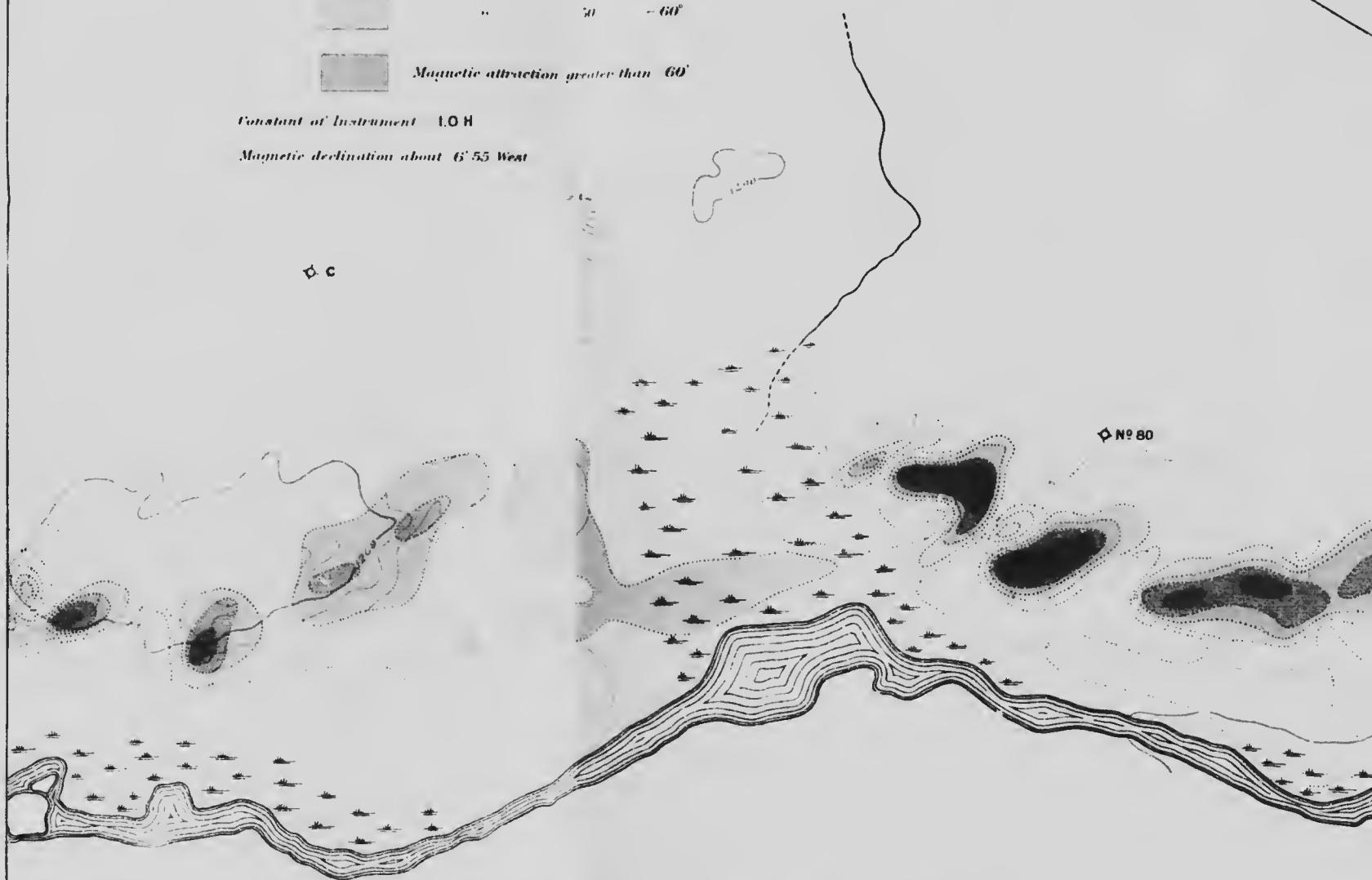
Joining Sheet No. 208 B

Constant of Instrument 1.0 H

Magnetic declination about 6° 55' West

Magnetic attraction greater than -60'

True North



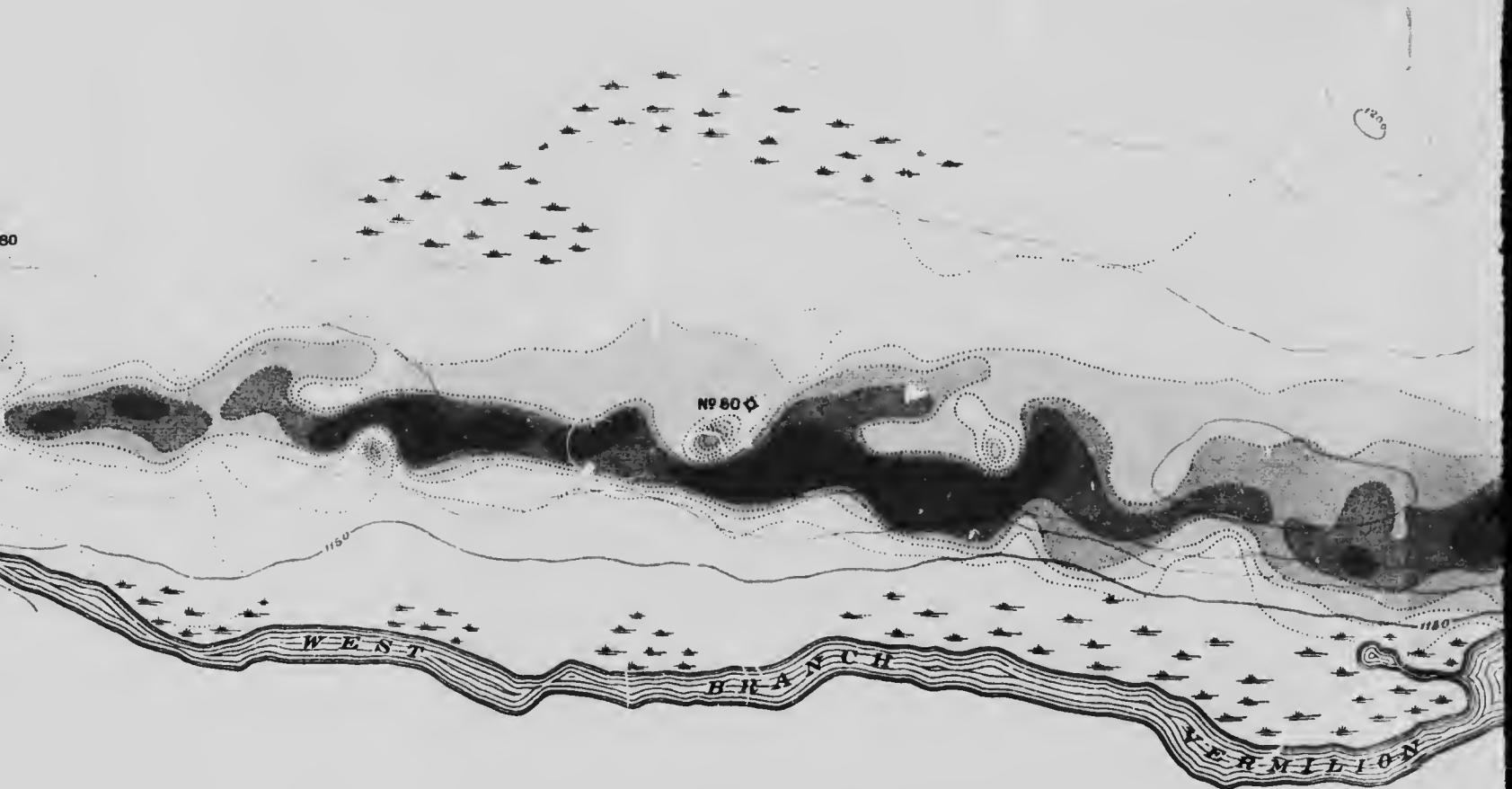
Scale: 35 miles to 1 inch

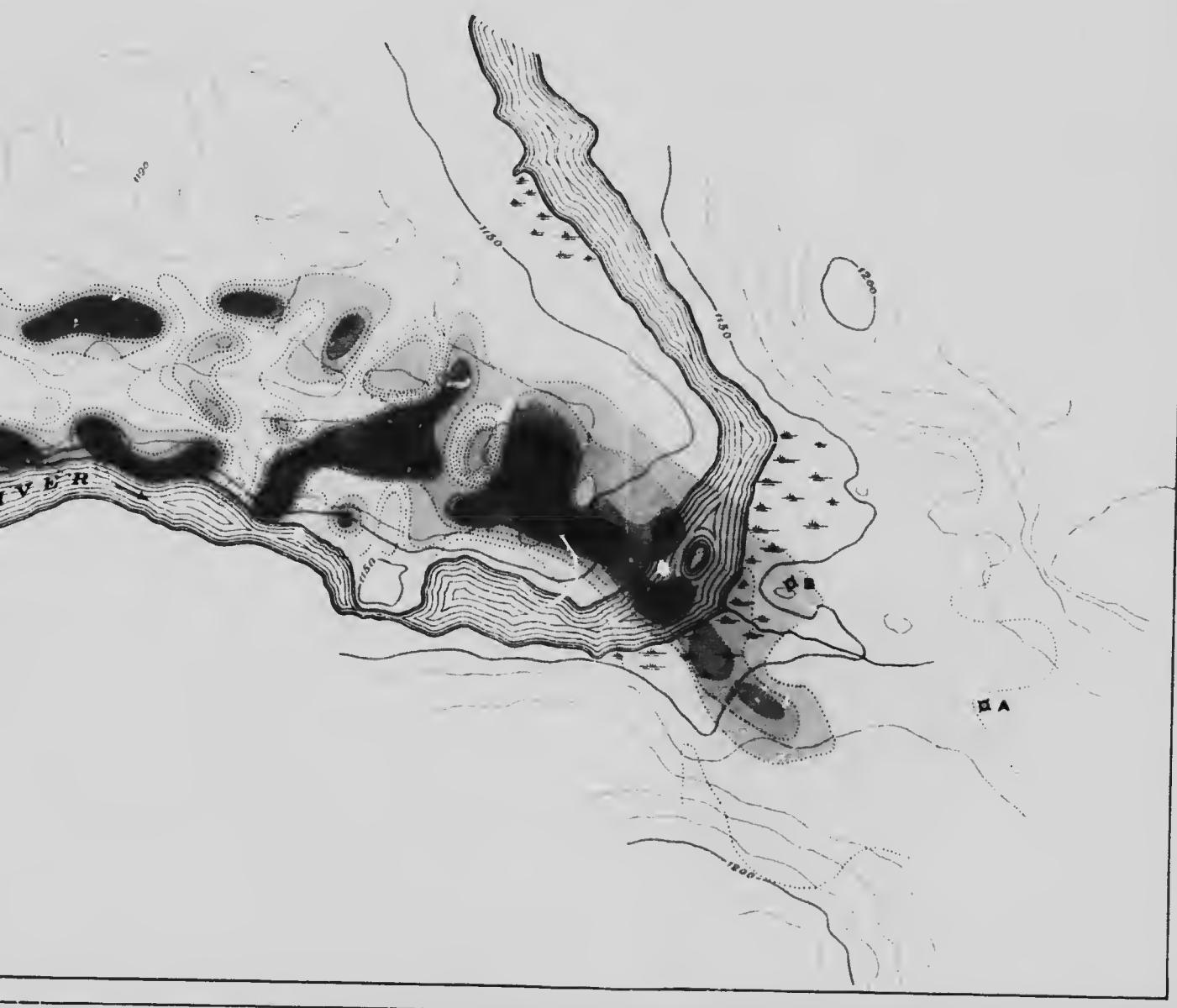
H. E. Bain, Chief Draughtsman  
L. H. S. Percival, Draughtsman

Surveyed by  
E. Lindeman 1912  
Assisted by  
A.H.A. Robinson  
W.M. Morrison  
W.H. Davies



Surveyed by  
E. Linde  
Assisted by  
A.H.A. Hol  
W.M. Mor  
W.H. Dav

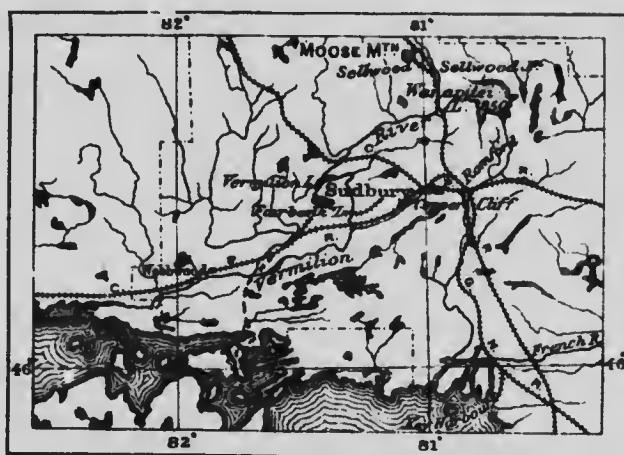
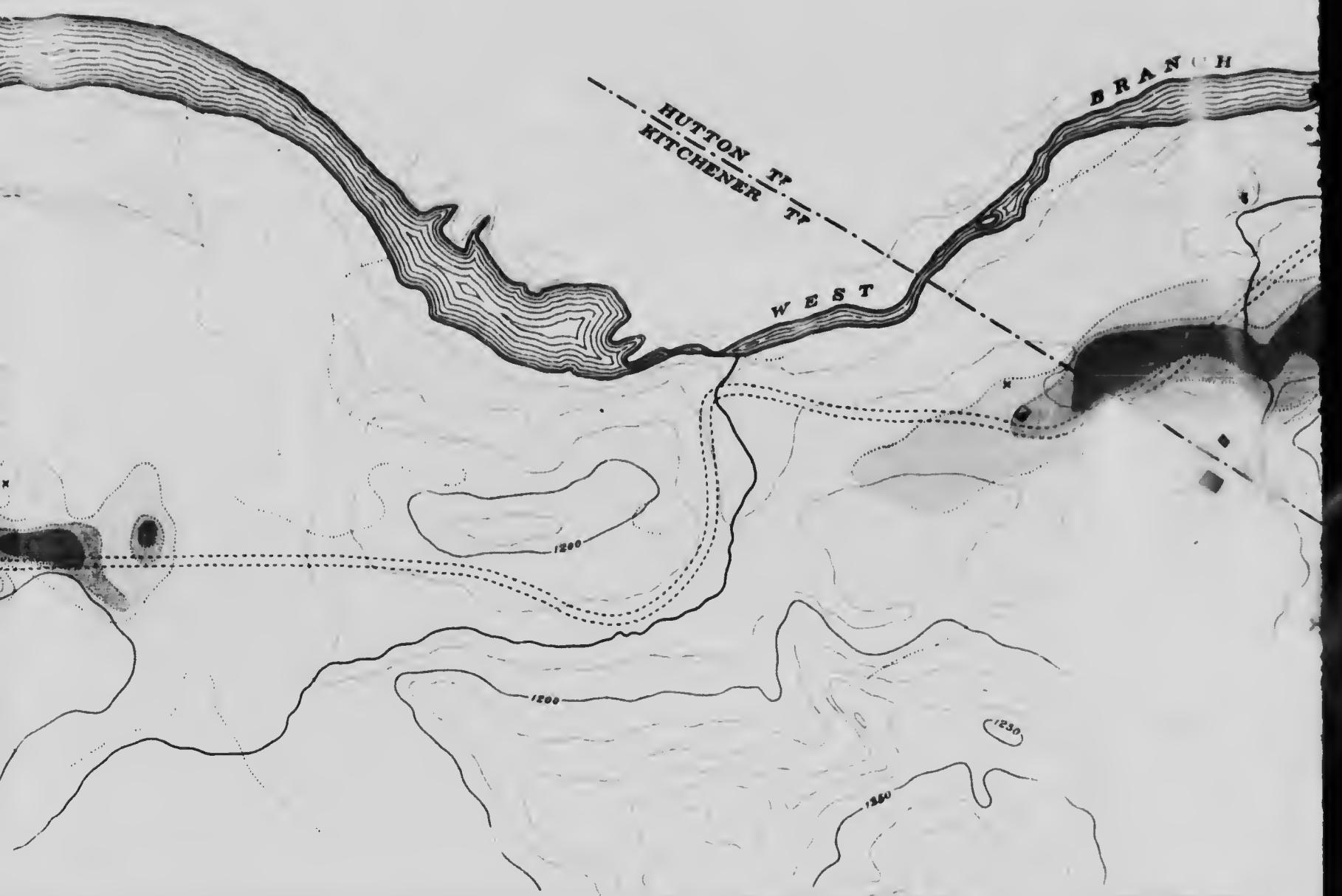




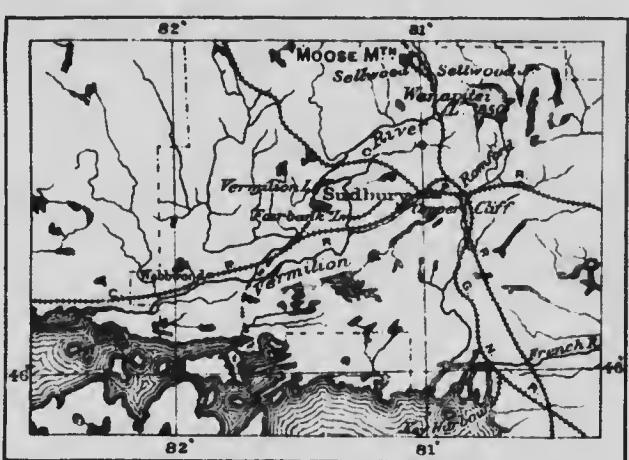
Nº 208▲



H. E. Baine, Chief Draughtsman  
L. H. S. Pereira, Draughtsman



Scale : 35 miles to 1 inch

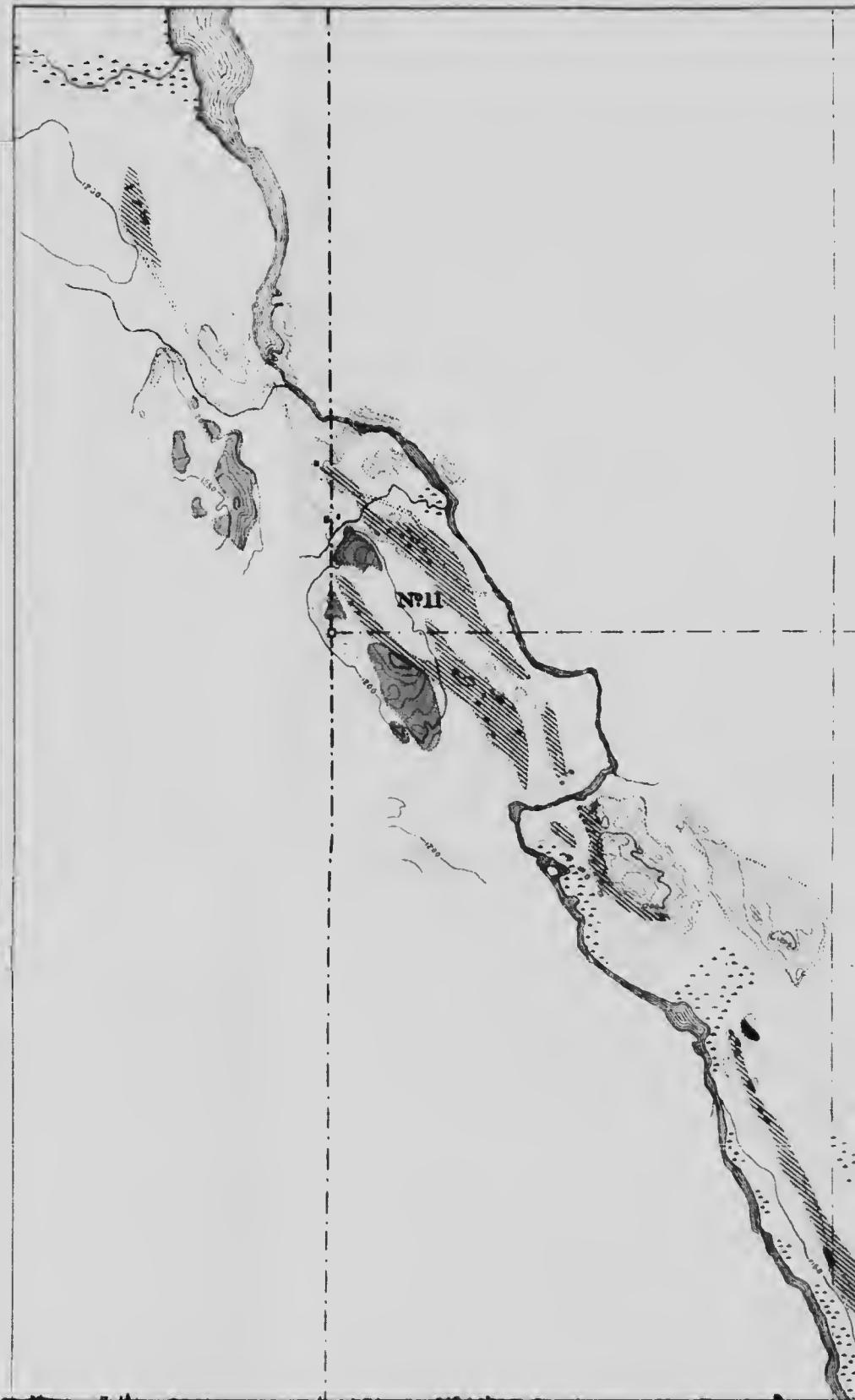


Scale 35 miles to 1 inch



Nº 208

GENERAL GEOLOGICAL MAP



LEGEND



*Drift*

**Canada**

**DEPARTMENT OF MINES**

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**MINES BRANCH**  
EUGENE HAANEL, PH.D., DIRECTOR

1914

C O N. VI

C O N. V

**Canada**

**DEPARTMENT OF MINES**

HON. LOUIS CODERRE, MINISTER; R.W. BROCK, DEPUTY MINISTER  
**MINES BRANCH**  
EUGENE HAANEL, PH.D., DIRECTOR

1914

C O N. VI

C O N. V



**LEGEND**



*Roads and buildings*



*Railways and tramways*



*Bridges*

**LEGEND**

-  *Drift*
-  *Granite*      (*Laurentian*)
-  *Diorite and porphyrite* ..
-  *Exposed iron formation*
-  *Driftcovered area within which iron formation is likely to occur, indicated by Magnetometric Survey*
-  *Green schist*      (*Keewatin*)
-  *Strike and dip*

KITCHENER — TOWNSHIP —  
HUTTON — TOWNSHIP —

C O N. V

N°11

WEST

11

ARM

10

VERMILION

RIVER

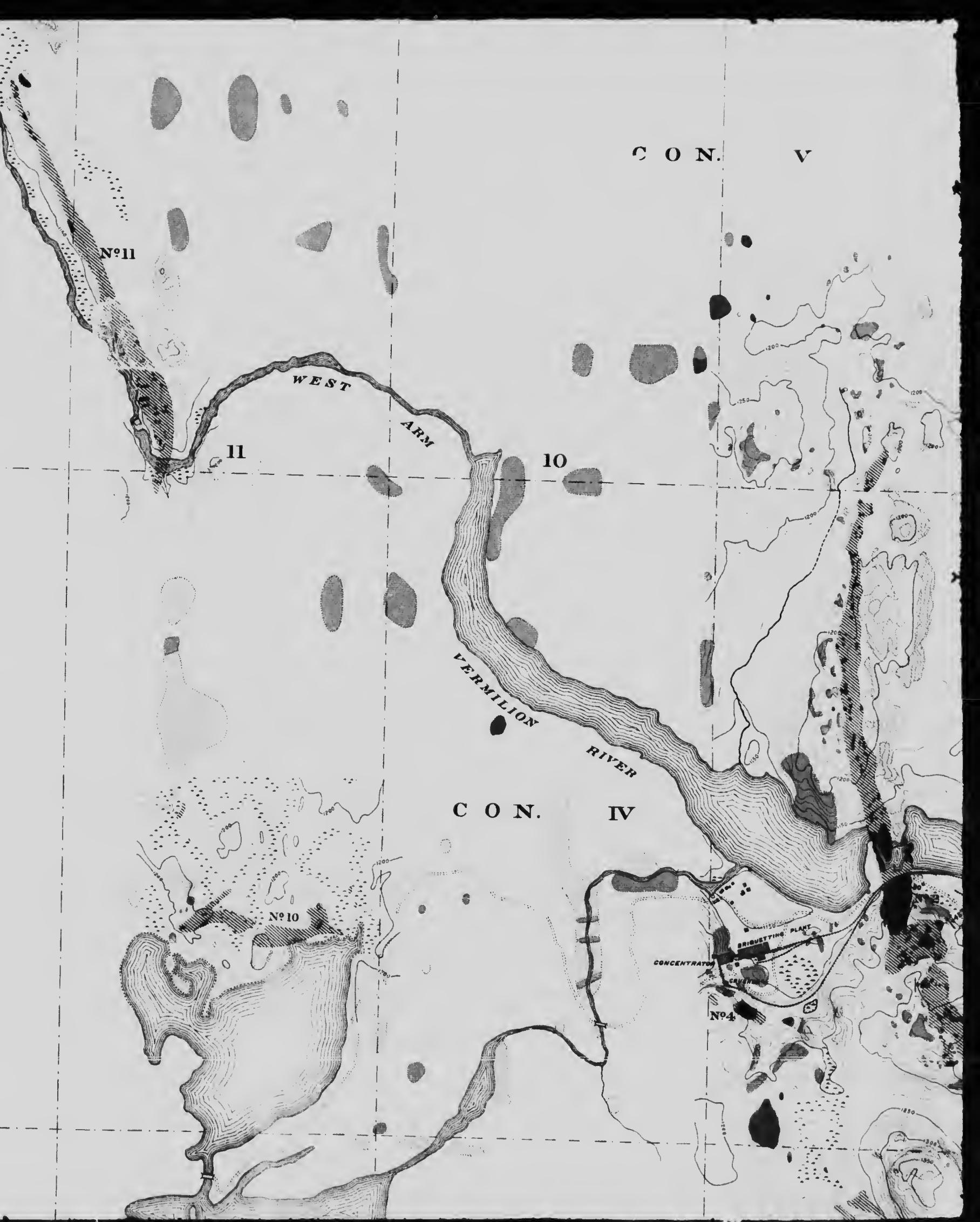
C O N. IV

N°10

CONCENTRATOR

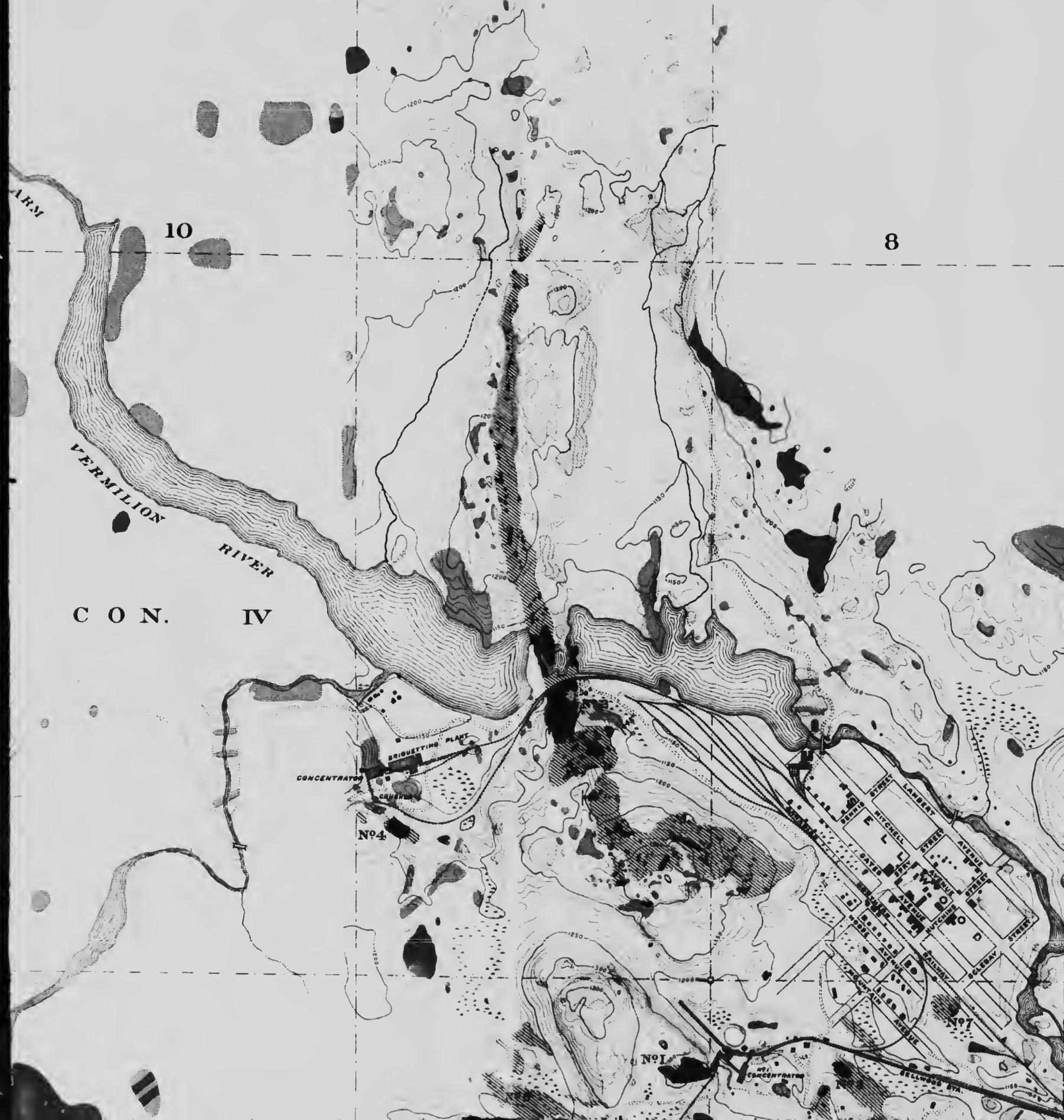
N°4

BRIQUETTING PLANT



C O N. V

True N



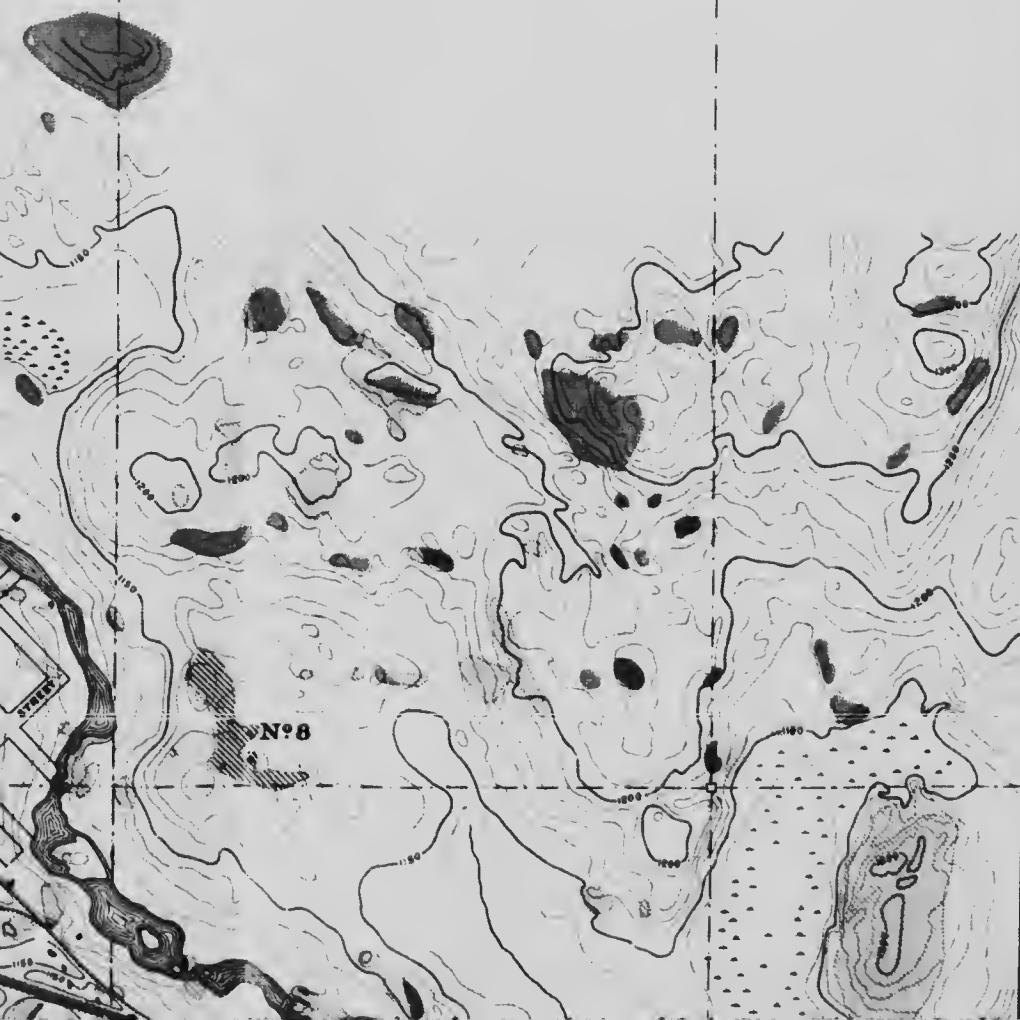
LEGEND

	Roads and buildings
	Railways and tramways
	Bridges
	Open cuts
	Stripings
	Dams
	Streams
	Swamps
	Ponds
	Contours, interval 10 feet Elevation above sea level
	Mine dumps

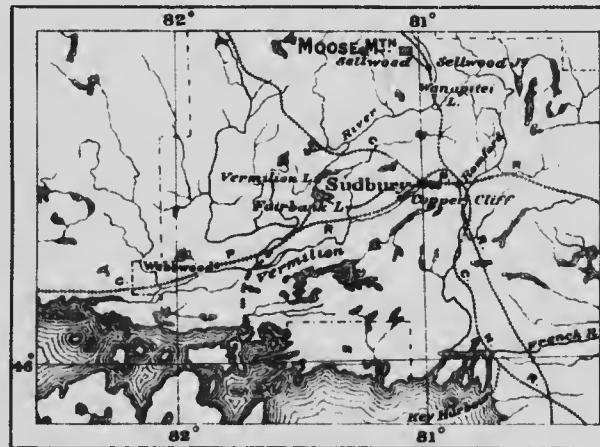
Contours showing heights above sea-level  
based on an elevation supplied by the  
Moose Mountain Limited.

7

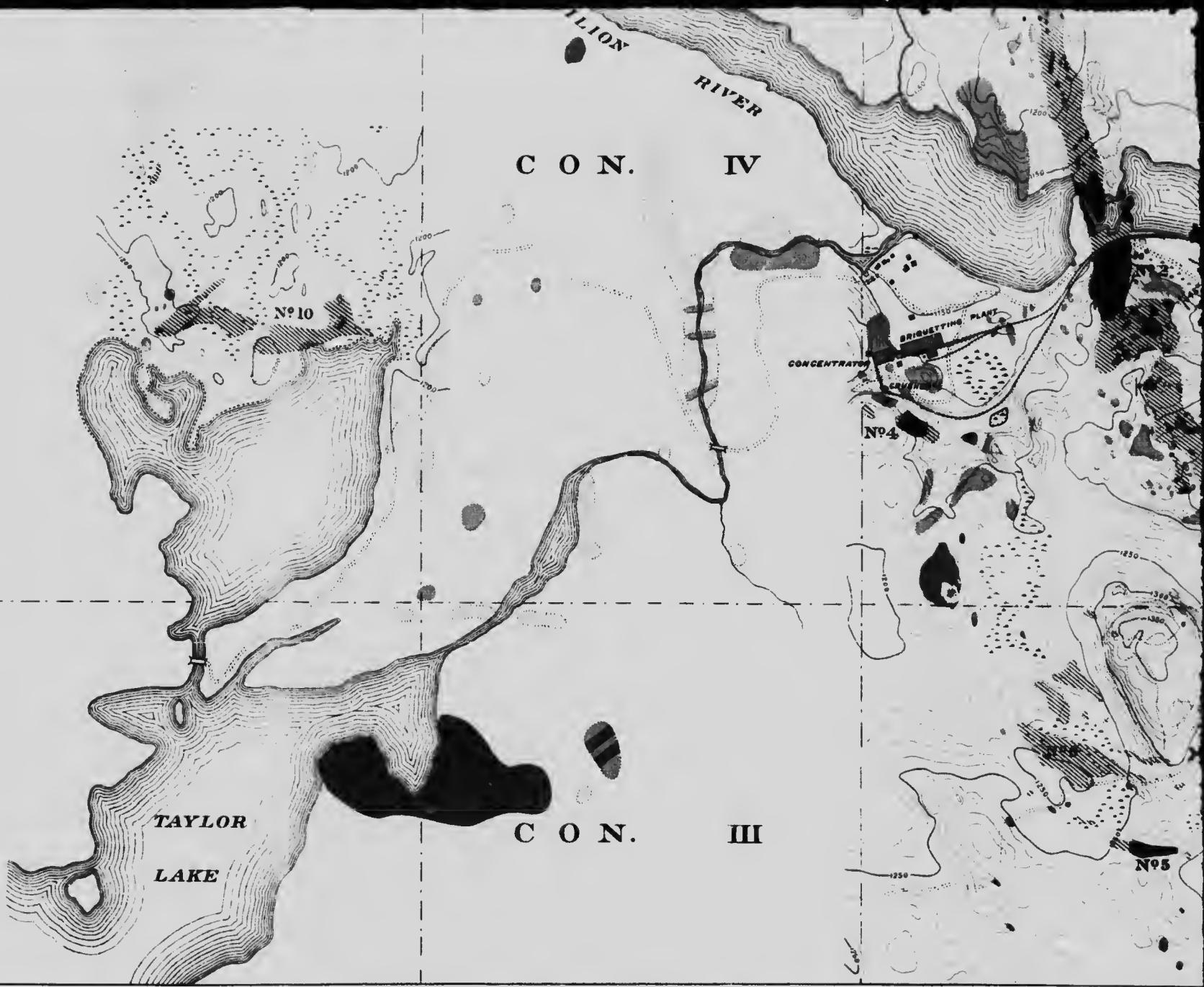
6



H E Baine, *Chief Draughtsman*.  
L H S Pereira, *Draughtsman*



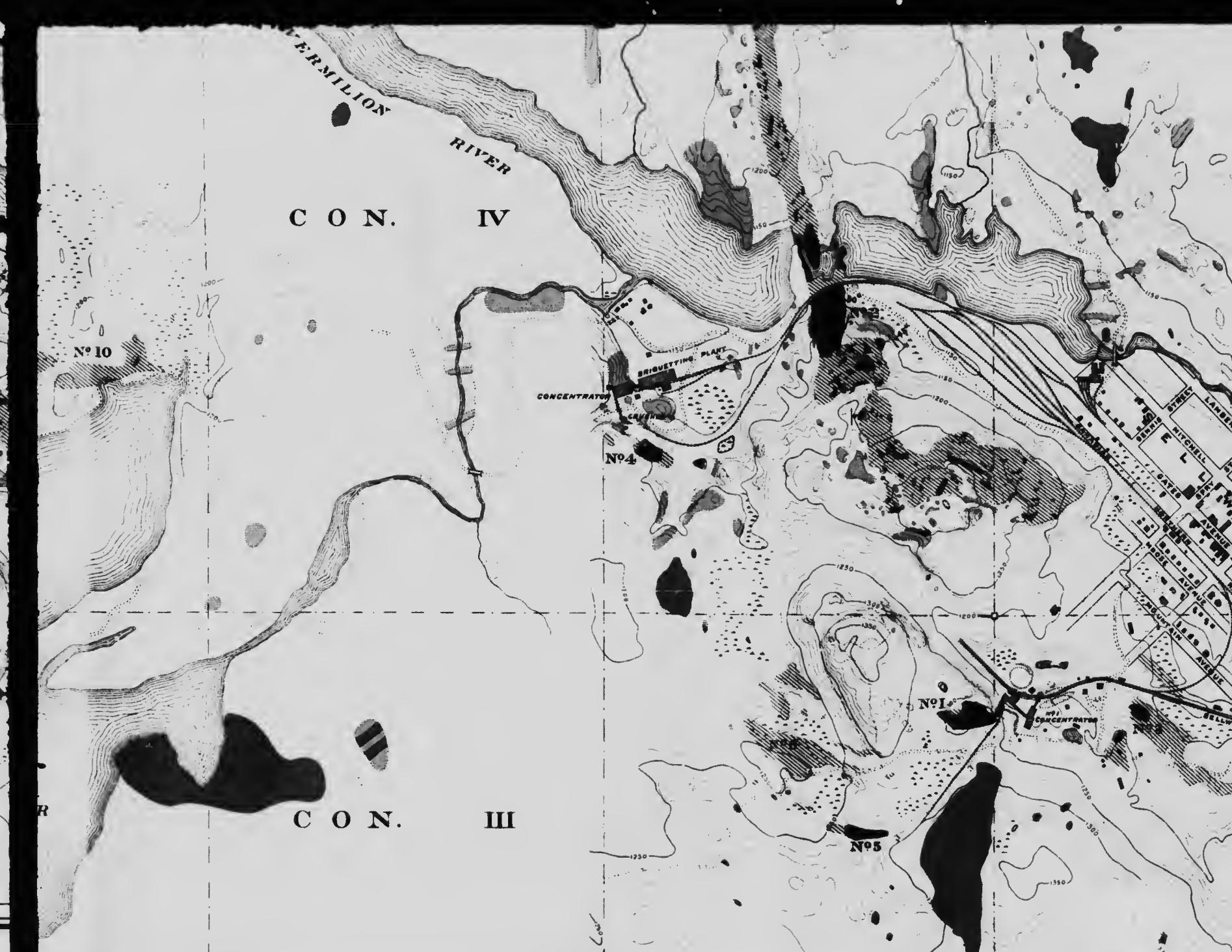
Scale, 35 miles to 1 inch



**MOOSE MOUNTAIN IRON BEARING DIST.**  
**HUTTON TOWNSHIP, SUDBURY DISTRICT**  
**ONTARIO**

Scale,  $\frac{1}{800}$  : 800 Feet to 1 Inch

800 400 0 800 1600 2400 3200

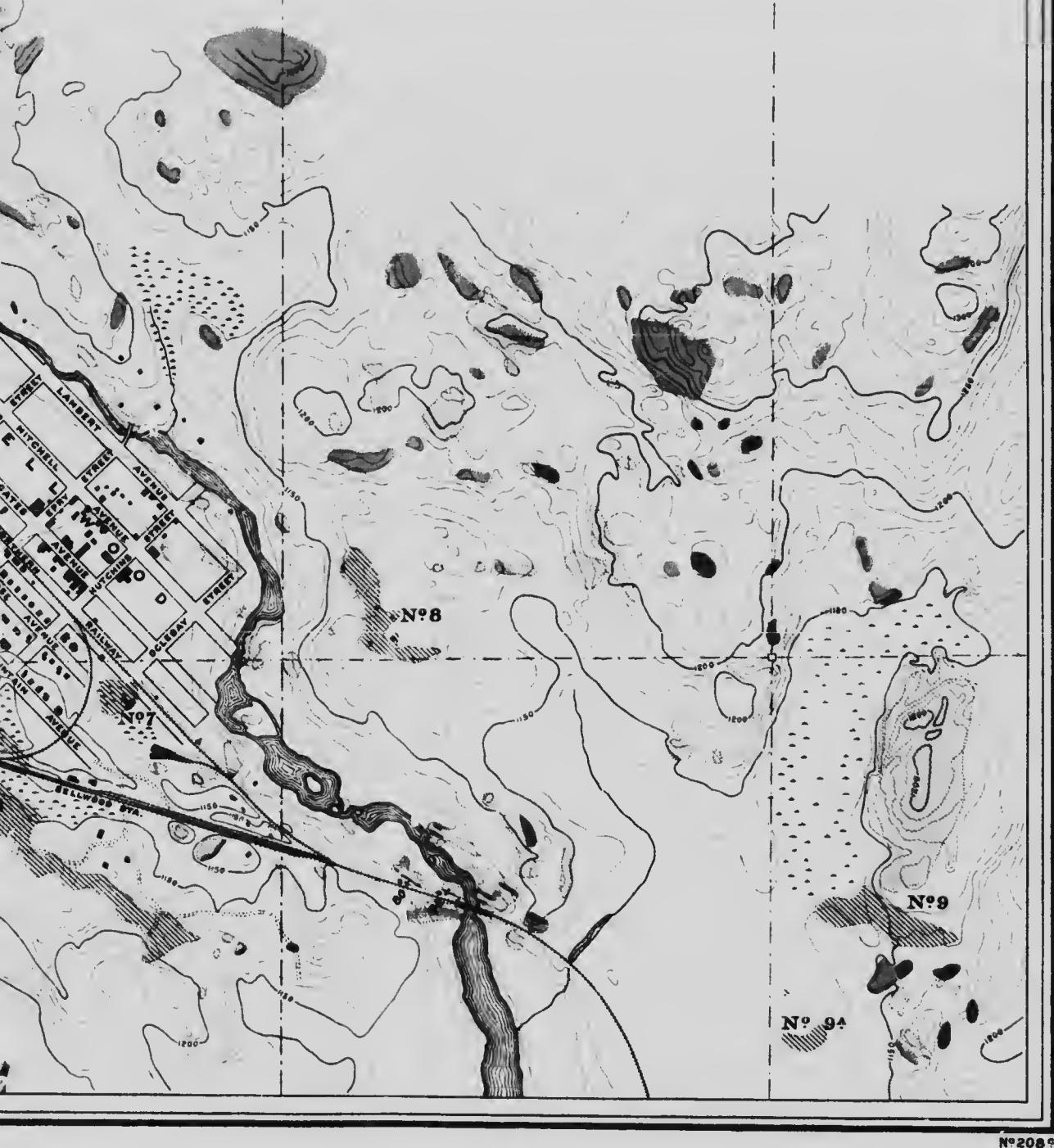


**MOOSE MOUNTAIN IRON BEARING DISTRICT**  
**HUTTON TOWNSHIP, SUDBURY DISTRICT**  
**ONTARIO**

Scale,  $\frac{1}{8000}$  : 800 Feet to 1 Inch

800    400    0    800    1600    2400    3200

*Contours showing heights above sea level  
based on an elevation supplied by the  
Moose Mountain Limited*



*Geology by  
E. Lindeman 1912*





### GEOLOGICAL MAP

#### LEGEND

Distr.

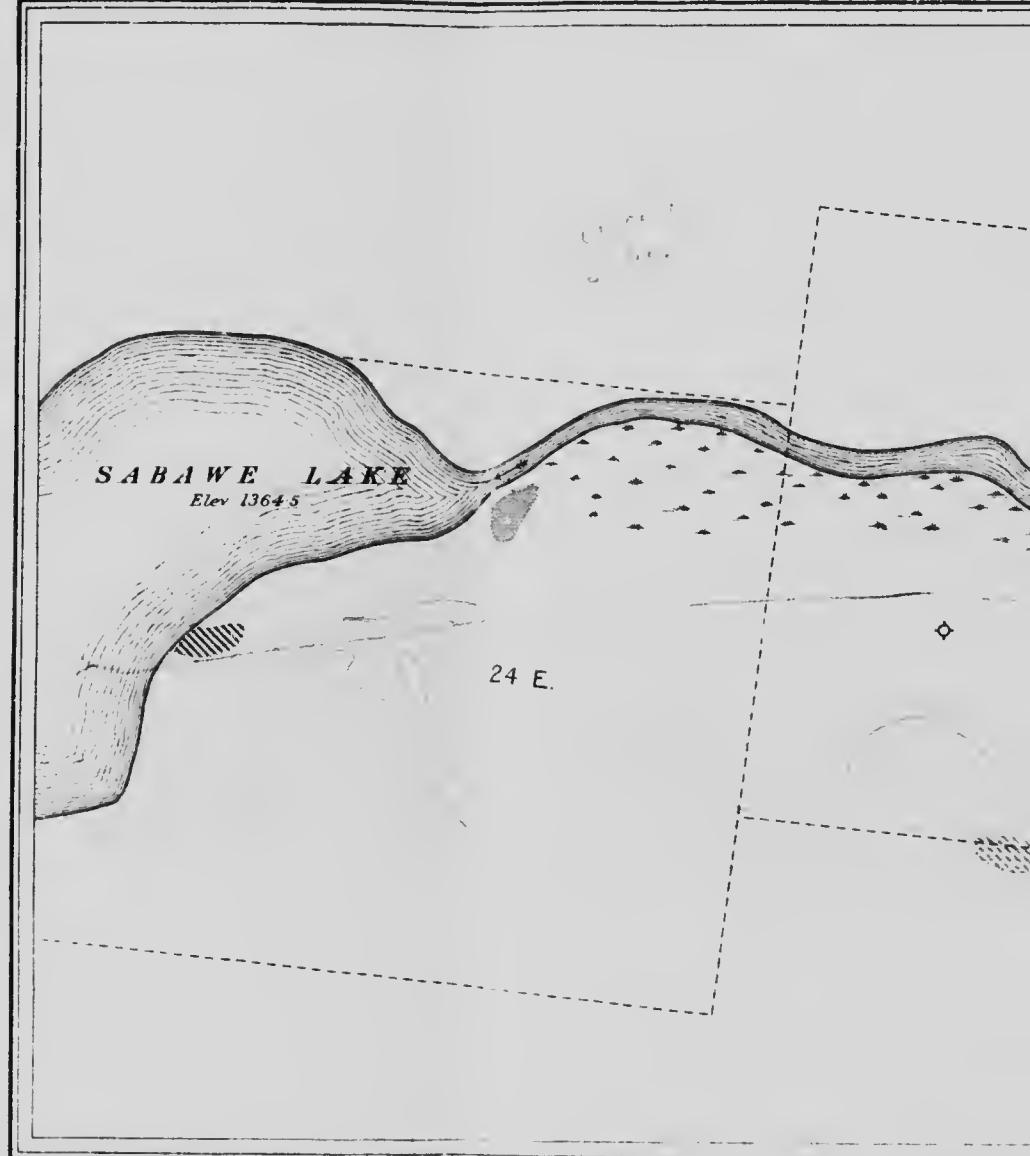
Green schists, diorite, porphyryite etc.



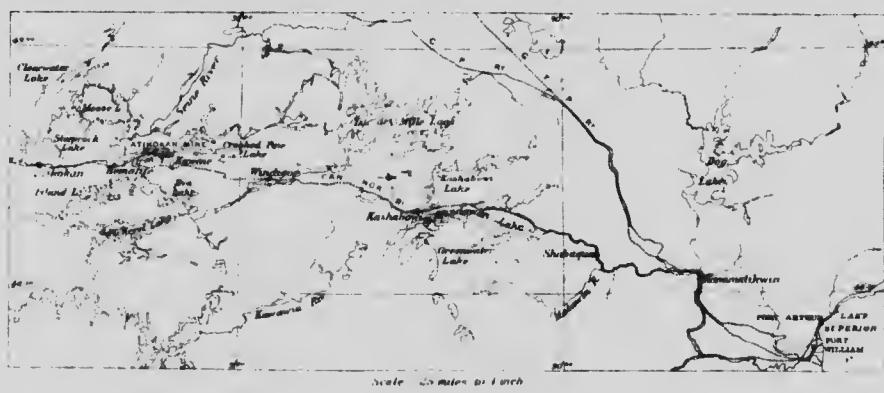
Grey and grey-green sericitic  
schists, chlorite schists etc.



area within which magnetite  
and pyrrhotite are likely to occur,  
indicated by magnetometric survey



H.F. Baine, Chief Draughtsman  
D. Westwood, Draughtsman

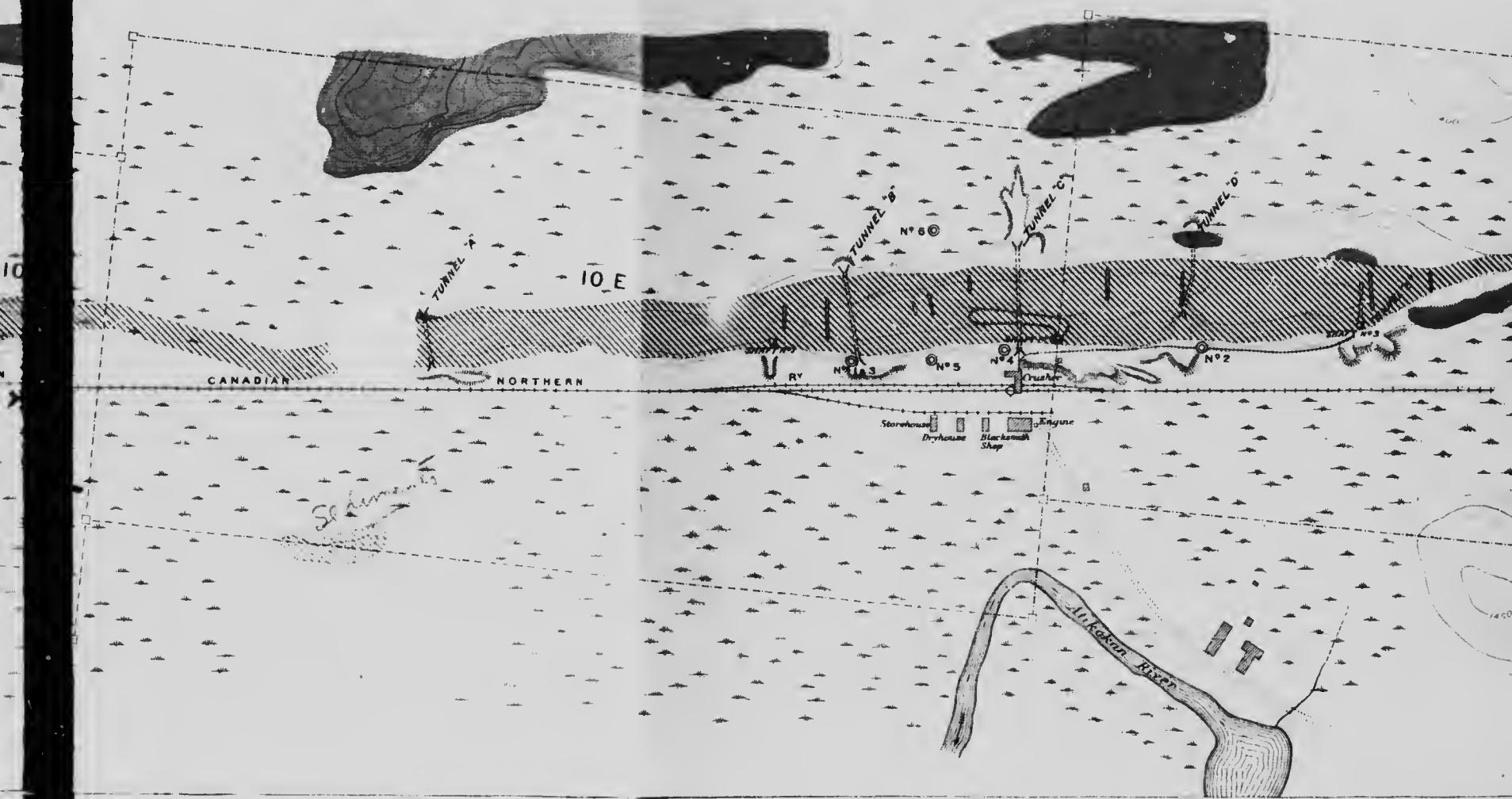


DEPARTME

MIN

HON L. CODERRE, MINISTER

EUGENE H.



## ATIKOKAN IRO

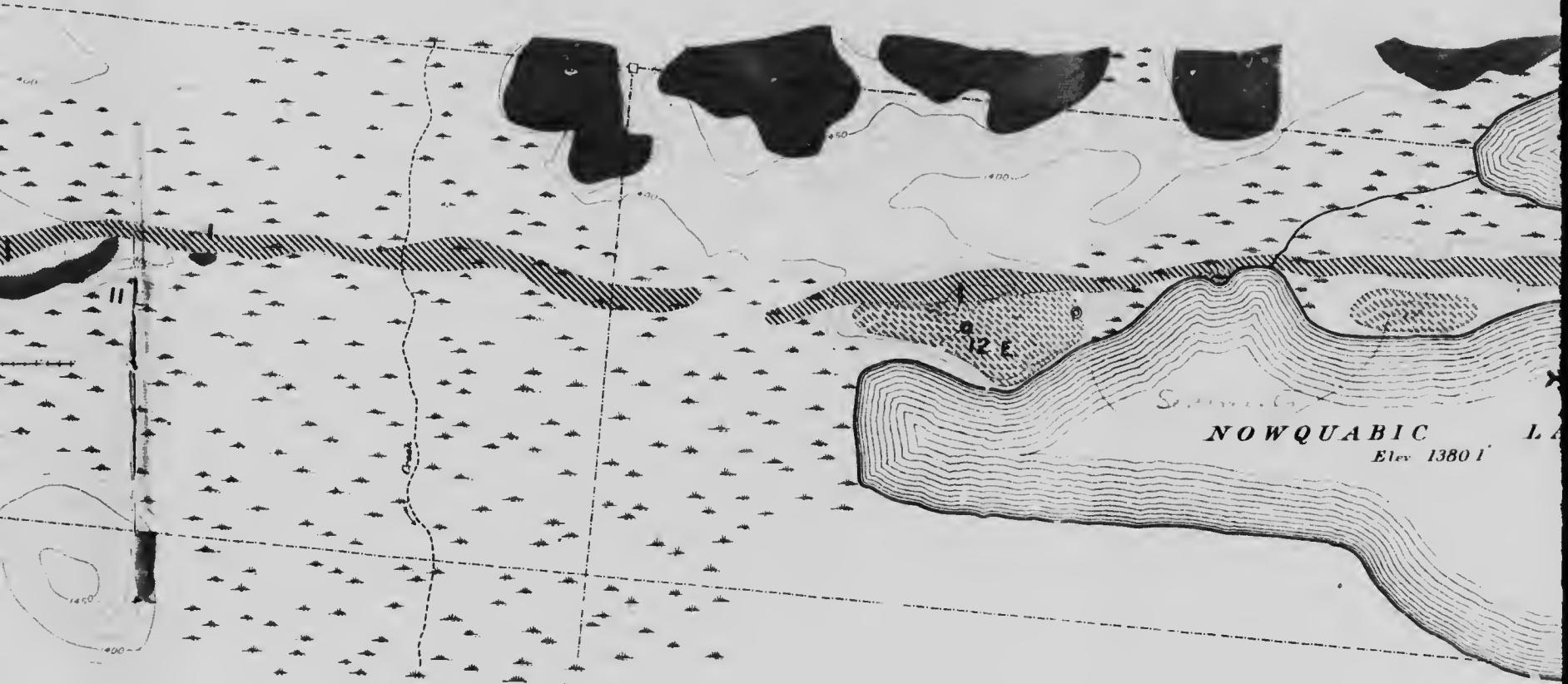
ATIKOKAN IRO  
RAINY I

Scale 46

400 300 200 100 0

CANADA  
DEPARTMENT OF MINES  
MINES BRANCH

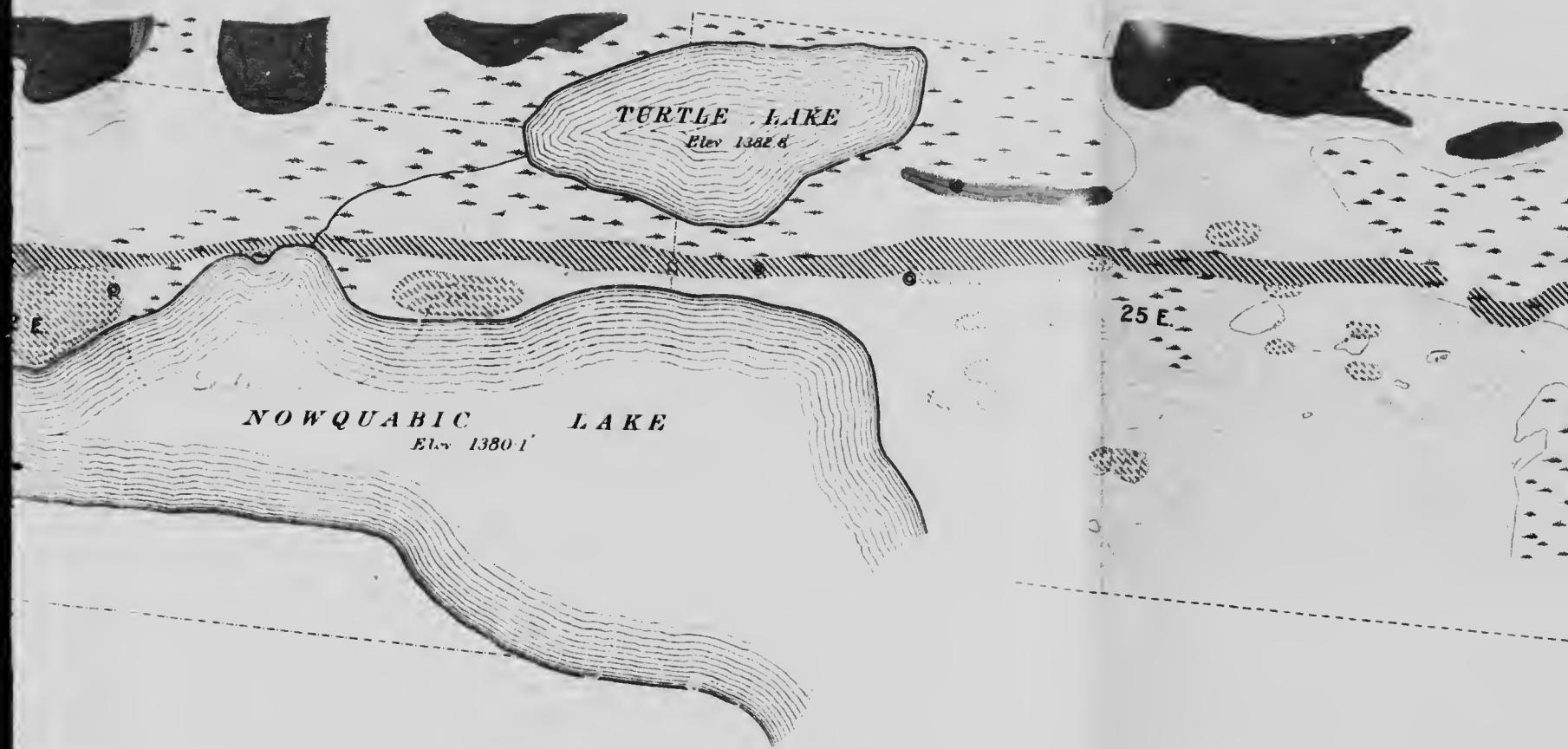
MINISTER: R G MCGONNELL, DEPUTY MINISTER:  
EUGENE HAANEL, PH.D. DIRECTOR  
1915



IRON-BEARING DISTRICT  
AN IRON MINE AND VICINITY  
PINY RIVER DISTRICT  
ONTARIO

Scale  $\frac{1}{4800}$  : 400 Feet to 1 inch

0      400      800      1200



LEGEND

	Roads and buildings
	Corner posts and claim boundaries
	Claim boundaries, not well defined
	Claim numbers
	Reference posts
	Railways
	Mine tramway
	Bridges
	Diamond drill hole
	Shafts
	Tunnels
	Open cuts and trenches
	Streams
	Swamps
	Contours, interval 10 feet Elevation above sea level
	Depression contours
	Mine dumps

Contours showing heights above sea level  
based on elevation taken from C.N.R.

340\*

A.H.A. Robinson, 1914

J. Hawley

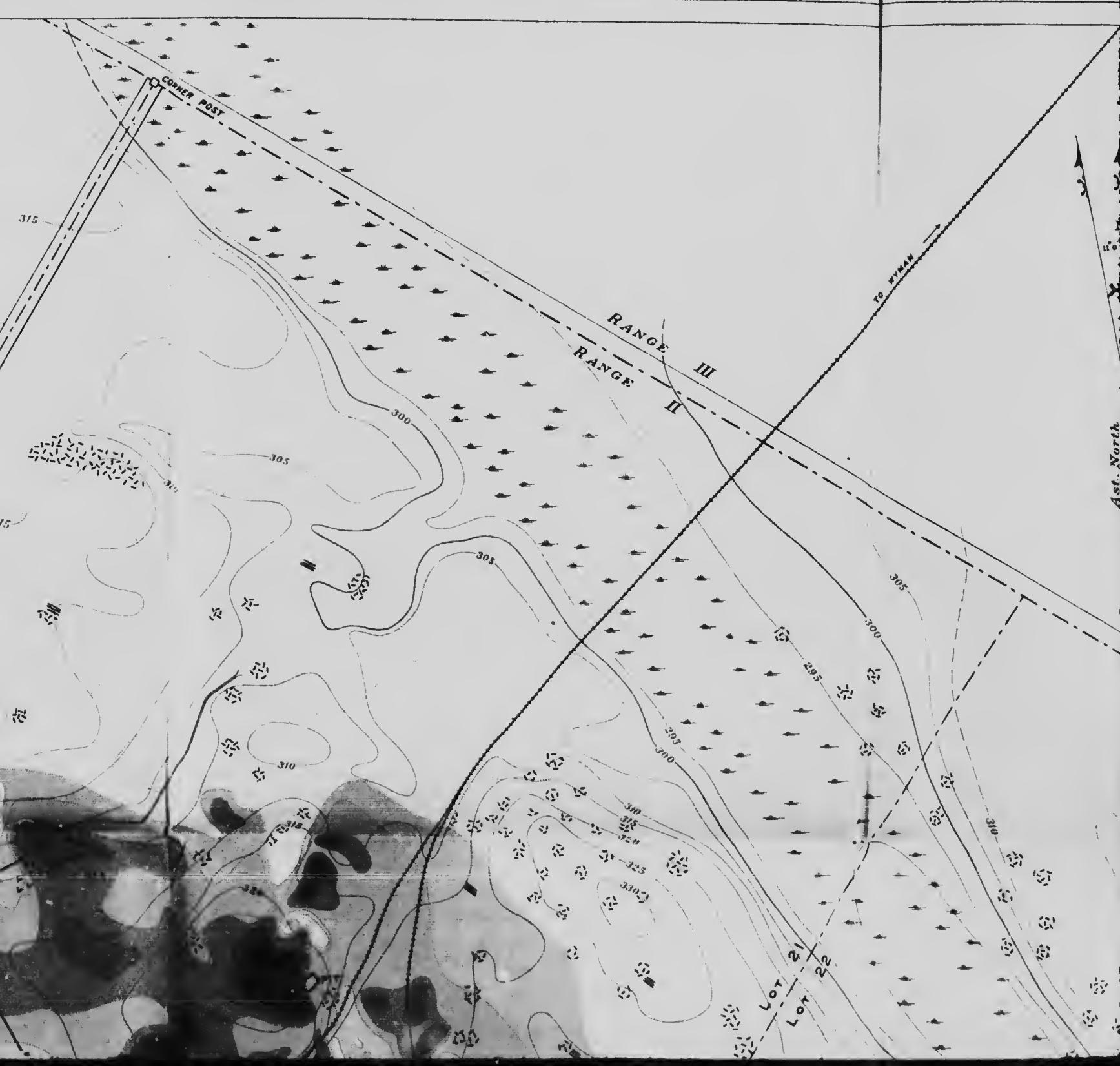
MAGNETOMETRIC MAP



CANADA  
DEPARTMENT OF MINES  
MINES BRANCH

HON E L PATERSON, MINISTER; R.G. McCONNELL, DEPUTY MINISTER.  
EUGENE HAANEL, PH.D. DIRECTOR

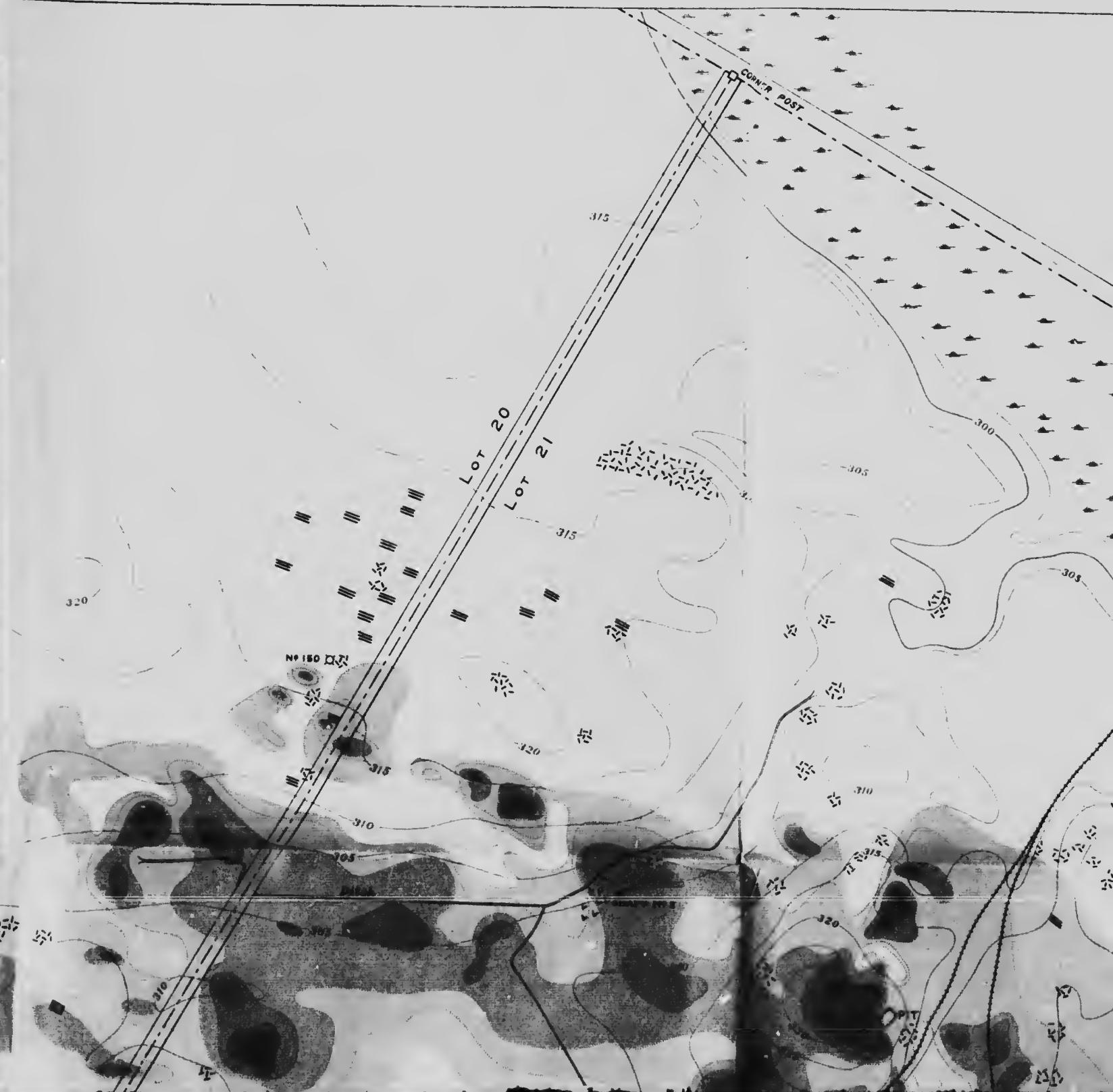
1917



CANADA  
DEPARTMENT OF MINES  
MINES BRANCH

HON E.L.PATENAULT, MINISTER, R.G.McCONNELL, DEPUTY MINISTER,  
EUGENE HAANEL, PH.D., DIRECTOR

1917



S

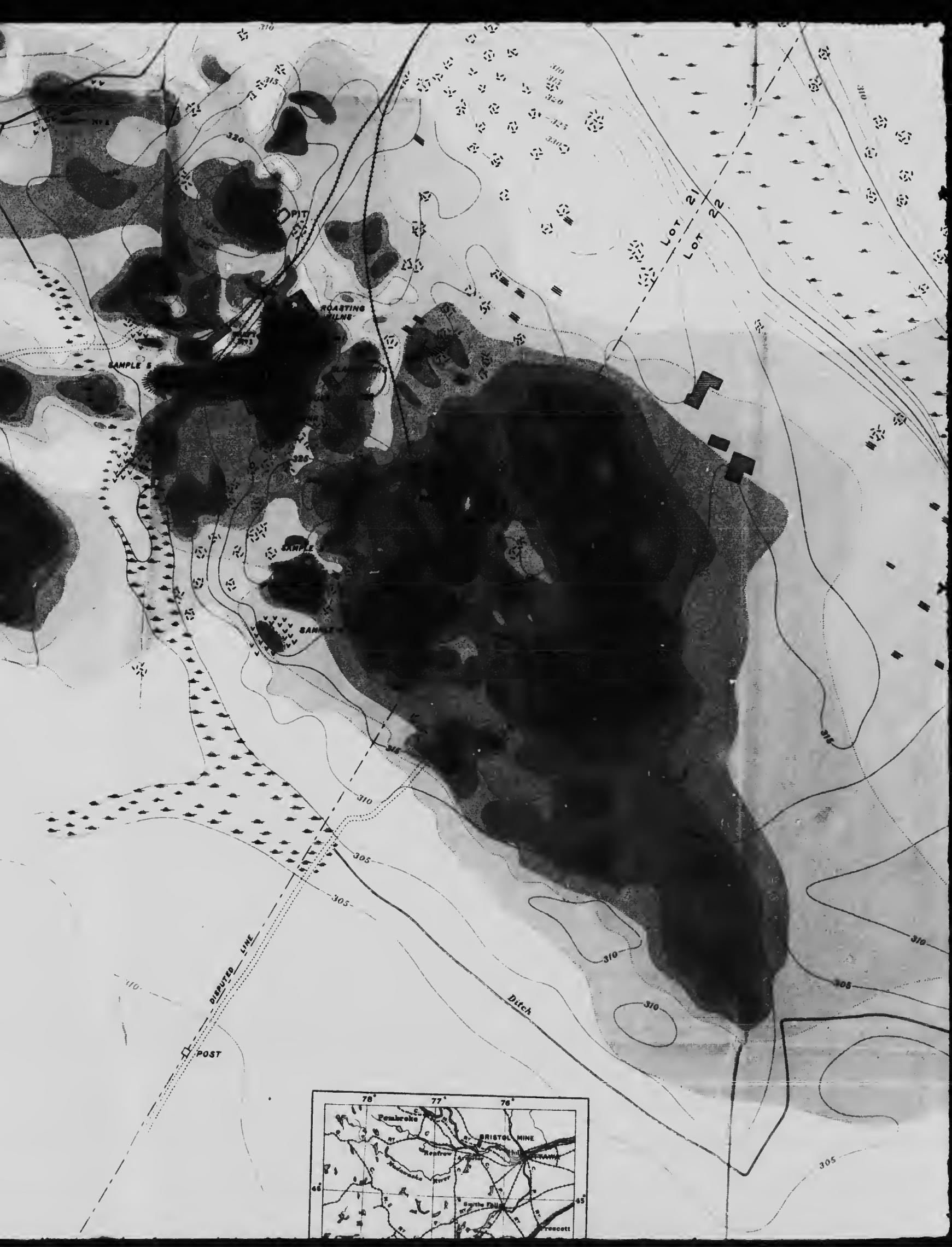
MINISTER.

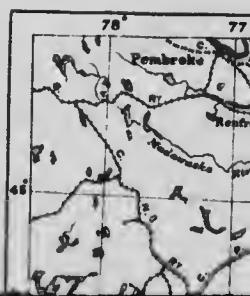
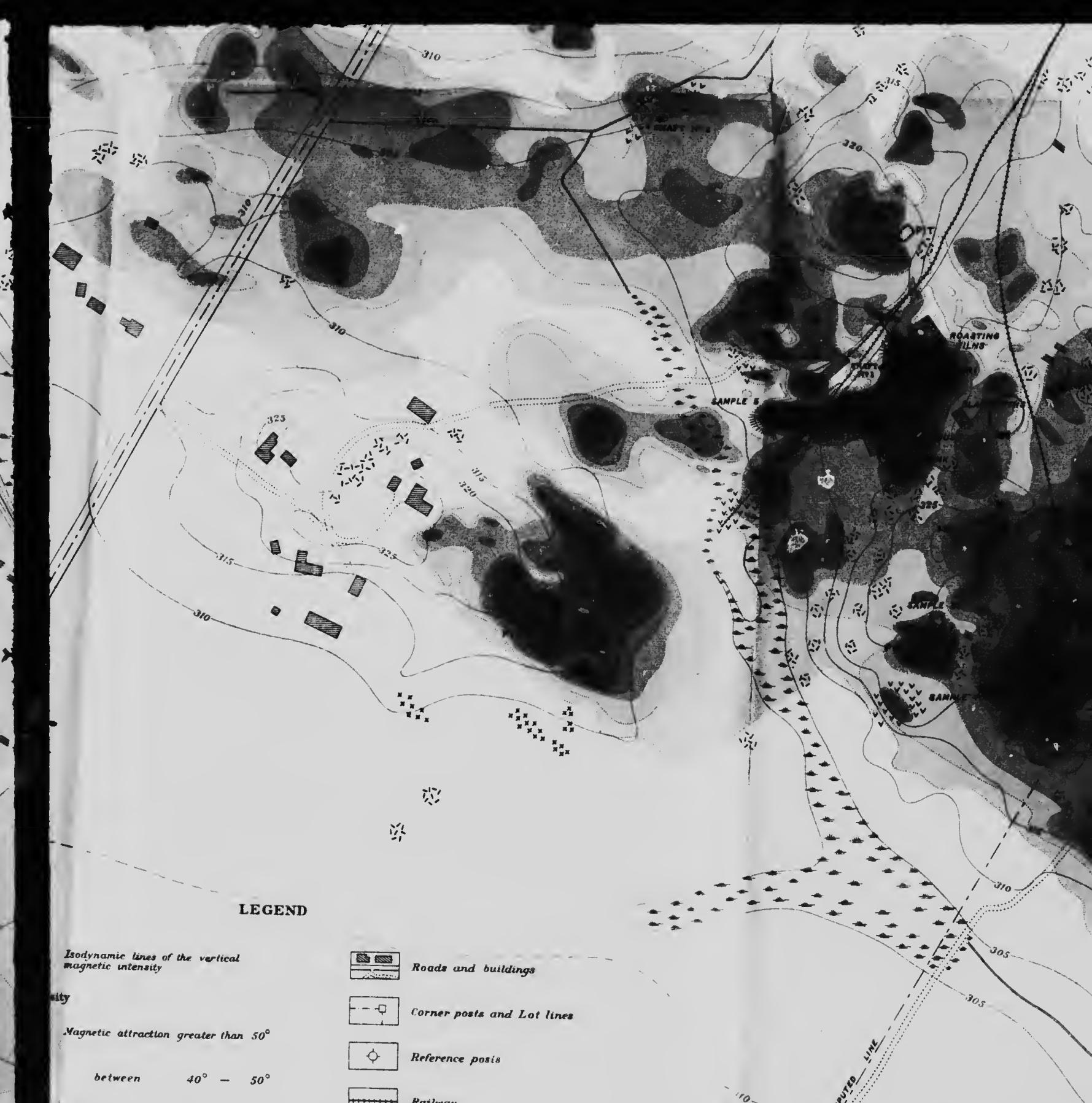


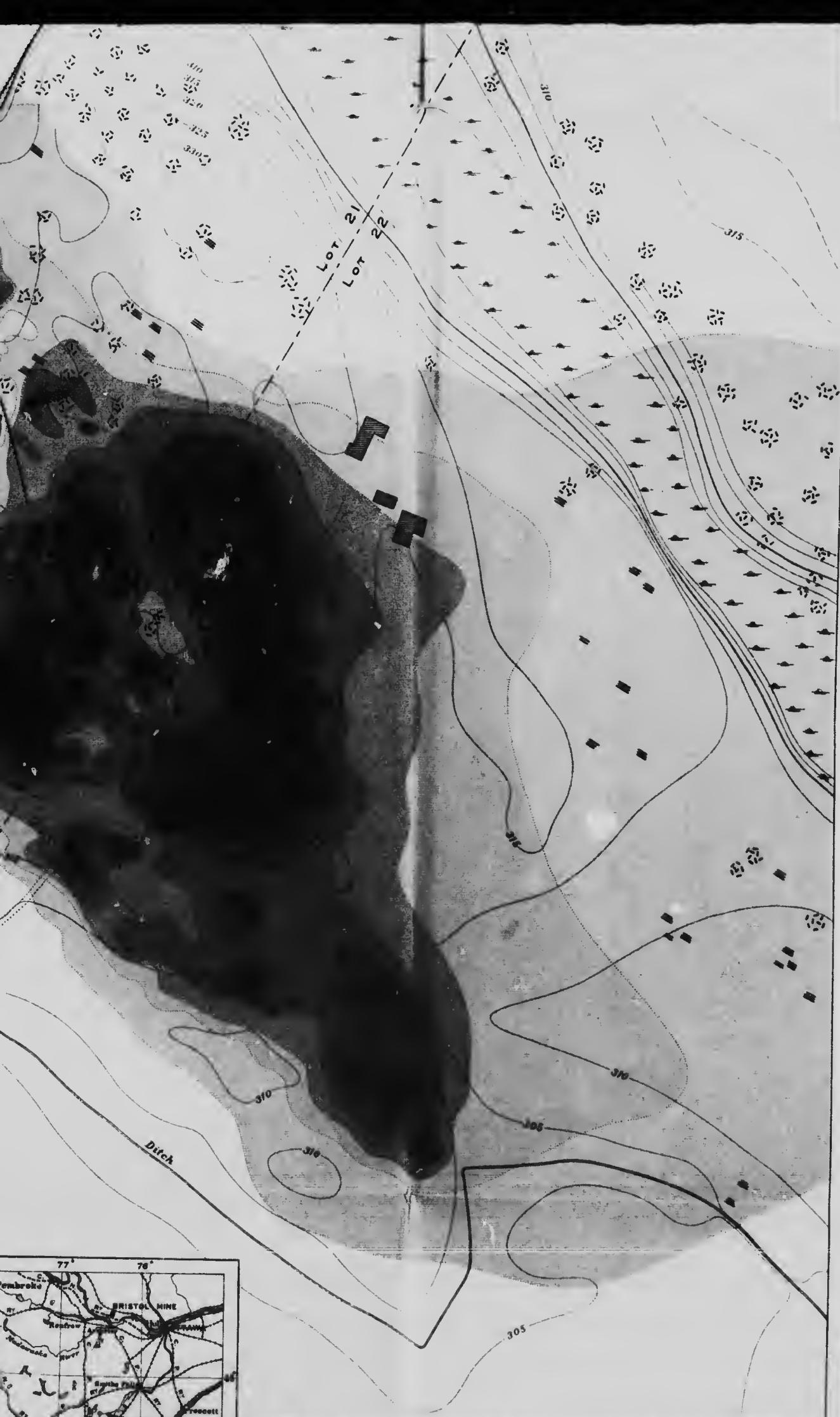


#### LEGEND

	Isodynamic lines of the vertical magnetic intensity		Roads and buildings
<b>Positive Intensity</b>		<b>Negative Intensity</b>	
	Magnetic attraction greater than 50°		Corner posts and Lot lines
	between 40° - 50°		Reference posts
	" 30° - 40°		Railway
	" 20° - 30°		Shafts
	" 10° - 20°		Open cuts and pits
	" 0° - 10°		Swamps
			Contours, interval 5 feet Elevation above sea-level
	between 0° - 10°		Mine dumps
	" -10° - -20°		Rock dumps







## LEGEND

 Isodynamic lines of the vertical magnetic intensity

### Positive Intensity

 Magnetic attraction greater than  $50^{\circ}$

 between  $40^{\circ} - 50^{\circ}$

 ..  $30^{\circ} - 40^{\circ}$

 ..  $20^{\circ} - 30^{\circ}$

 ..  $10^{\circ} - 20^{\circ}$

 ..  $0^{\circ} - 10^{\circ}$

### Negative Intensity

 between  $0^{\circ} - -10^{\circ}$

 ..  $-10^{\circ} - -20^{\circ}$

 Magnetic attraction greater than  $-20^{\circ}$

Magnetic declination about  $11^{\circ}$  west

 Roads and buildings

 Corner posts and Lot lines

 Reference points

 Railway

 Shafts

 Open cuts and pits

 Swamps

 Contours, interval 5 feet  
Elevation above sea-level

 Mine dumps

 Rack dumps

 Magnetite

 Chrystalline limestone

 Amphibolites, schists etc.

 Granite and gneiss



## **BRISTOL MINE**

**LOTS 21 AND 22 RANGE 2, TOWNSHIP OF BRISTOL  
PONTIAC COUNTY**

QUEBEC

SECO  
*Surveyed*



## LEGEND

of the vertical

tion greater than  $50^{\circ}$

$40^{\circ} - 50^{\circ}$

$30^{\circ} - 40^{\circ}$

$20^{\circ} - 30^{\circ}$

$10^{\circ} - 20^{\circ}$

$0^{\circ} - 10^{\circ}$

$0^{\circ} - -10^{\circ}$

$-10^{\circ} - -20^{\circ}$

ction greater than  $-20^{\circ}$



Roads and buildings



Corner posts and Lot lines



Reference posts



Railway



Shafts



Open cuts and pits



Swamps



Contours, interval 5 feet  
Elevation above sea-level



Mine dumps



Rock dumps



Magnetite



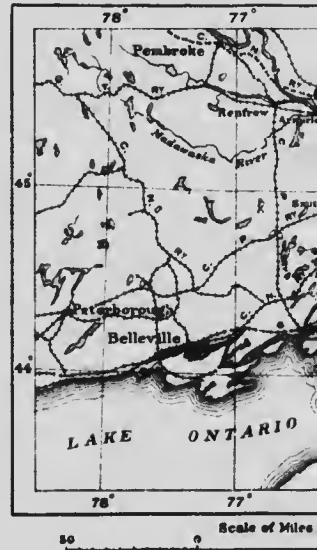
Chrystalline limestone



Amphibolites, schists etc.



Granite and gneiss



# BRISTOL MINE

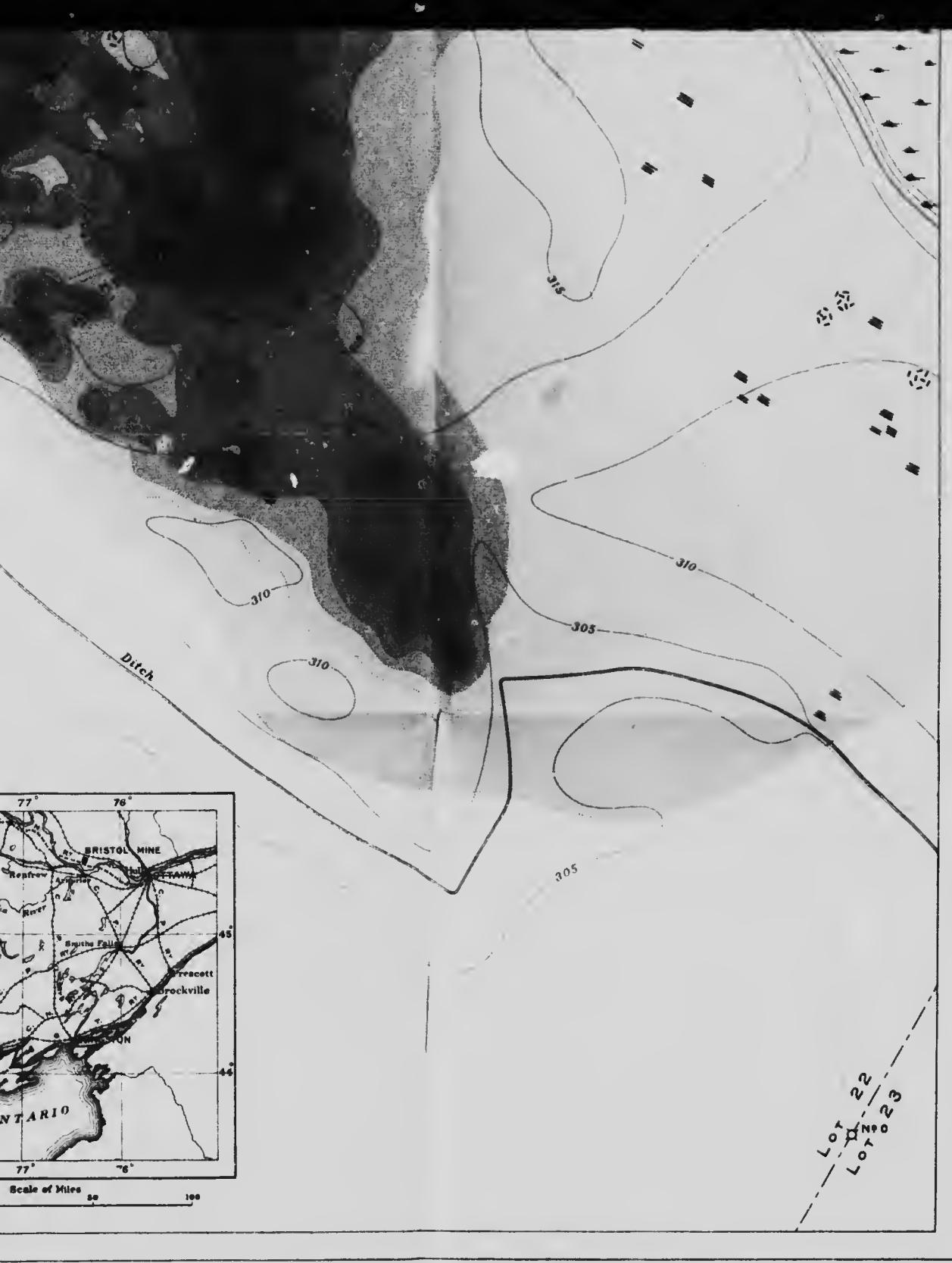
LOTS 21 AND 22 RANGE 2, TOWNSHIP OF BRISTOL

PONTIAC COUNTY

QUEBEC

Scale of Feet

100 200 300 400 500 600



443

SECOND EDITION  
*Surveyed by E. Lindeman, 1909*

