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## **Country north and south of Ishpeming, Michigan: [specimens] 17887-18000, 21501-21520. No. 116 1891**

King, F. P.

[s.l.]: [s.n.], 1891

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U. S. GEOLOGICAL SURVEY  
FIELD SECTION BOOK

Book 116

Country north and south of  
Ishtpeming, Mich.

F. P. King, 1891

17887-18000, 21501-21520.

# LAKE SUPERIOR DIVISION.

## INSTRUCTIONS.

1. Ordinarily at least two pages of this book will be devoted to one section. On the left-hand page, place a map of as much of the section as has *actually been seen*. Denote rivers, lakes, marshes, etc., by the usual topographical signs. Denote the ledges of rock, when no structure is made out, by cross-hatching, making the cross-hatching cover as nearly as possible the areas occupied by the exposures. If the rock is a massive one, but still more or less plainly bedded, use the same sign with a dip arrow and number attached, showing the direction and amount of the dip. Denote a shaly or other very plainly bedded ledge by right parallel lines, and a ledge having a secondary structure by wavy parallel lines running in the direction of the strike, with dip arrow and number attached as before. The greatest care must be taken to avoid confusing slaty or schistose structure with bedding, and in all cases where there is the least doubt about the true bedding direction, indicate it by a query. To each exposure on the face of the map attach the number of the specimen representing it. In mapping the section count each of the spaces between the blue lines as 100 paces, and twenty of these spaces to one mile, or 2,000 paces. Usually the southeast corner will be placed at the bottom of the page, or at the first black line above the bottom of the page, and at the right-hand side. If, however, for any reason, it is desirable to show portions of an adjoining section, the southeast corner may be shifted up, or the map may be turned around and the north placed at the left-hand side of the page. The ruling of the left-hand page is also arranged so that, if desirable, a smaller scale can be used, two inches, one inch, or even one-half inch to the mile. With the two-inch scale, the squares outlined in black represent sections, and those in red, quarter sections and "forties," while the space between the blue lines is 200 paces.

2. On the right-hand page place the notes descriptive of the exposures. Begin in each case with the number of the specimen, placing the number on the left-hand side of the red line, after which give in order on the right of the same red line the position of the ledges as reckoned in paces from the southeast corner of the section, and the dip and strike when observable, for instance 4025, 250 N., 300 W., *Strike, N. 6° E., Dip, 50° E.* Then follow with as full a description of the ledge as possible. When topographical maps are used for locations this paragraph applies only in part.

3. Collect a specimen from every ledge, or wherever there is a change of rock on any one ledge, taking care to get fresh material, unless for a special purpose the weathered surface is desired. In case of trips made on foot or in canoes, for long distances, neighboring ledges, unquestionably of one kind of rock, need not be specimened, but chips of them must be taken. The position and extent of the ledges not specimened should be marked on the map, with notes that each is of a rock identical with specimen so-and-so. Under the same conditions small sized specimens, trimmed to a uniform size of  $2 \times 2\frac{1}{2} \times \frac{3}{4}$  inches will be allowed, but in all other cases *large sized specimens*, trimmed to a size of  $3 \times 4 \times 1$  inches, must be selected, in accordance with section 3, chapter IV, p. 44, Regulations of the U. S. Geological Survey. In all cases collect chips for slicing. Specimens should not be placed together without protection in the collecting bag as the fresh surfaces, important in determining the character of rocks, are thus destroyed. They should be damaged by no temporary mark, but the numbers should be at once marked in at least two places upon the inclosing paper or cloth bags. It is desirable that specimens be permanently marked in camp by painting the numbers upon them in white upon a black background, using Silver White and Ivory Black oil tubes for color, with turpentine as a diluent.

4. On the last twenty-five pages of the book give, as may seem desirable, a general account of the examination of the region mapped in the previous pages, correlation observations, sketches, cross sections, etc.

5. Forward this note book as soon as filled as registered mail matter to C. R. Van Duse, U. S. Geologist, Madison, Wis.

17887-18000, 21501-21520

Book II - # 116

17887-88 platted wrong (see map of p. 3)  
What is location of 17938.

Field notes

Season of 1891

Marguerite Range

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F. P. King.

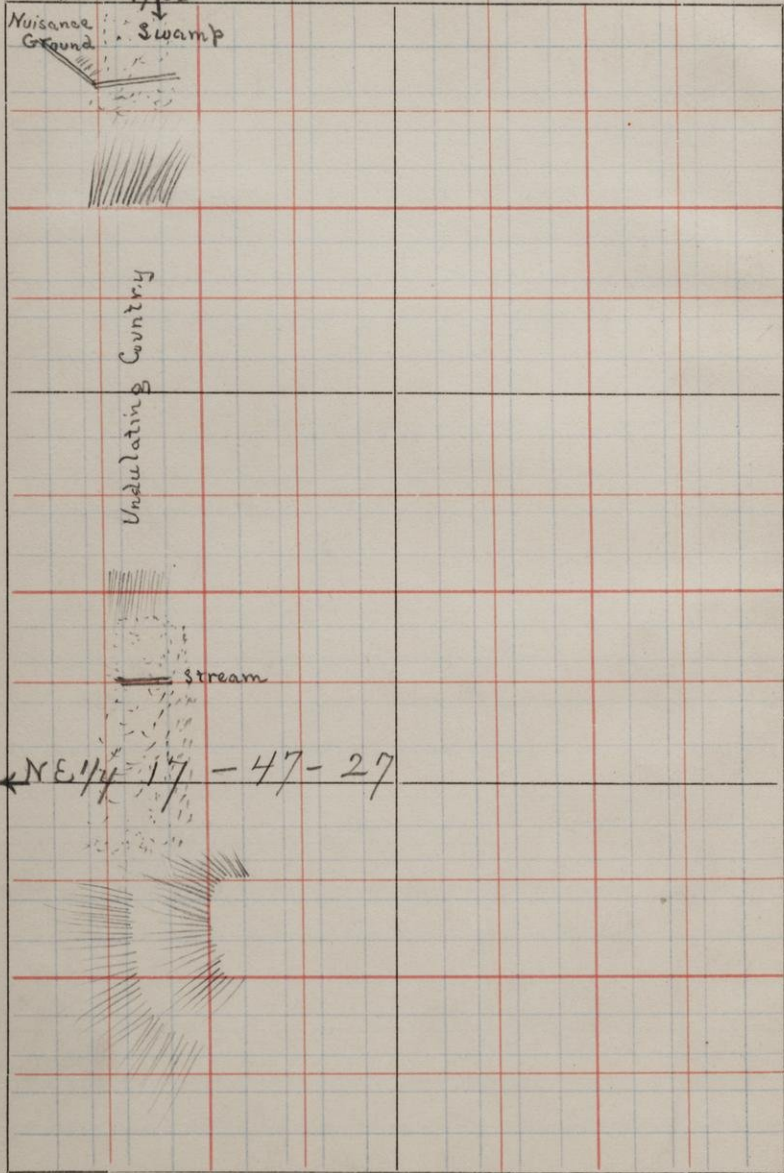
Note location of 17904 & 5 on King's map  
and then note disagreement with his  
figures for distances

Specimen 17906; location disagree with  
plat.

no. describing 21520 or location

SE 1/4 8 T. 47

R. 27



### R.R.

Aug 13 1891

Went to point where S.S.S & A.R.R.  
is crossed by east section line  
of 17-47-27

The center of track is 450 paces  
west of east 1/4 part of Sec 17.

Waited here until 4.30 for  
Sun.

With Horne as compassman  
I run west 300 paces.

R.R. 50 paces south of us.

Run north on slight curved  
country

1900 N swamp begins &

Entered section 8. 47-27

130 N came upon small stream

12 ft wide. Marsh around stream

225 N swamp ends and undulating  
slight curved country begins.

850 N swamp begins.

920 Road. This is but a short  
distance from road leading to  
Nuisance Ground.

Swamp continues in N 1/4 of

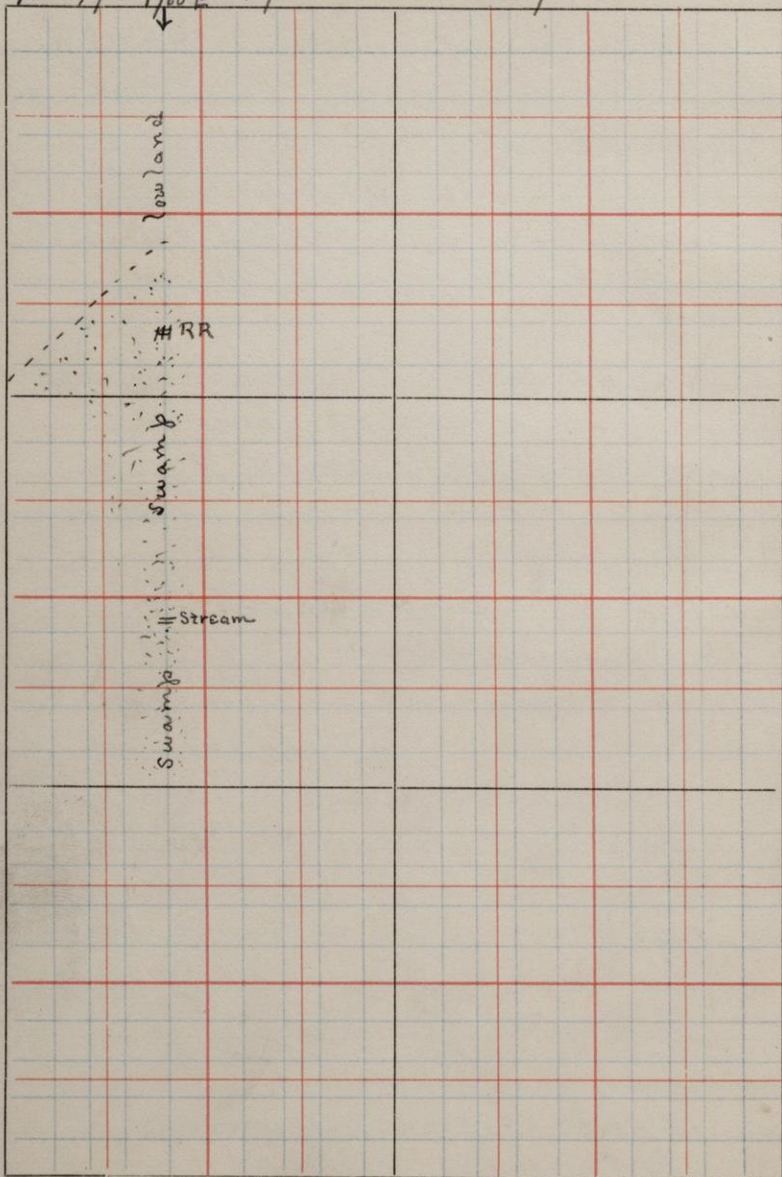
1217 N stream 8 ft wide

1545 N R.R.

1715 N Swamp ends. Low drift

NE  $\frac{1}{4}$  8 T. 47

R. 27



covered country succeeds.

This country continues into SE 1/4 5 and is comparatively level

1660 E } - SW cor. Sec 8-47-27

17887

475 N } took spec 17887 granitic  
This was taken from Spec of  
large knot north.

Large knot shaped hill (solid ledge) has high bluff on north and south sides while on east and west sides slope gradually - the east more gently than west.

660 N } - SW cor. Sec 8-47-27

17888

1700 E } took spec 17888 granitic  
699 N Swamp. Requin's shed ends  
800 N Swamp ends

885 N Swamp again

Swamp runs into NE 1/4 75 to 1728 m

Rise in ground gradual

1795 N line faces edge of Swamp and at 2000 m hits into a quartzite ridge running east and west

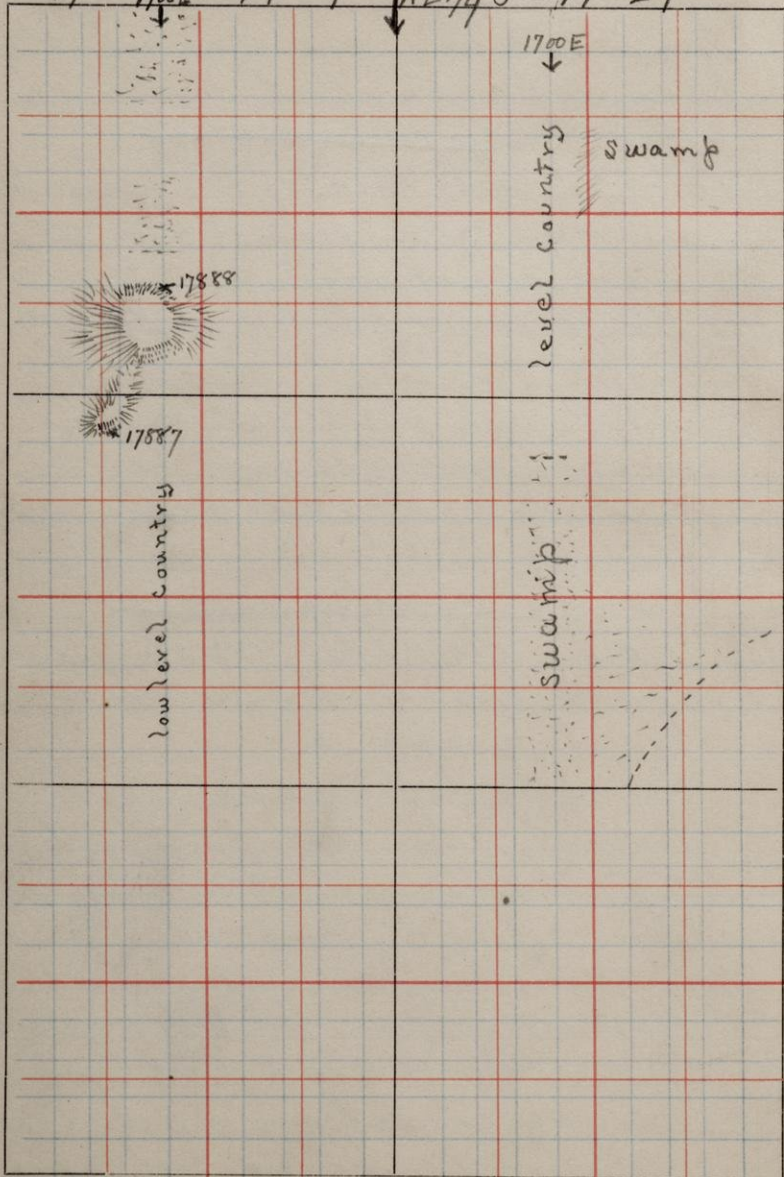
After we corrected up by Uley who had found us cor. of sec 5-47-27 in Swamp



SE 1/4 5 T. 47-27



NE 1/4 5 R. 47-27



By this we found that we were  
75 paces too far west and  
100 paces " " north.

NW 1/4 14 T. 47

R. 27  
630 E  
↓

1789K } 650 E } SW cor  
1845K } B 14

17890 } 675 E } SW cor  
1590N } B 14

17889 } 690 E } SW cor  
1370N } B 14

Aug 15

This morning Dr. Bayley and I tried to find the main rock as mapped by Rominger in the north west 1/4 of 14-47-27

Starting a little north of Lake Sally we ran north to north line of sec 14

In going north I took three specimens of greenstone finding no trace of any of the main bearing rocks

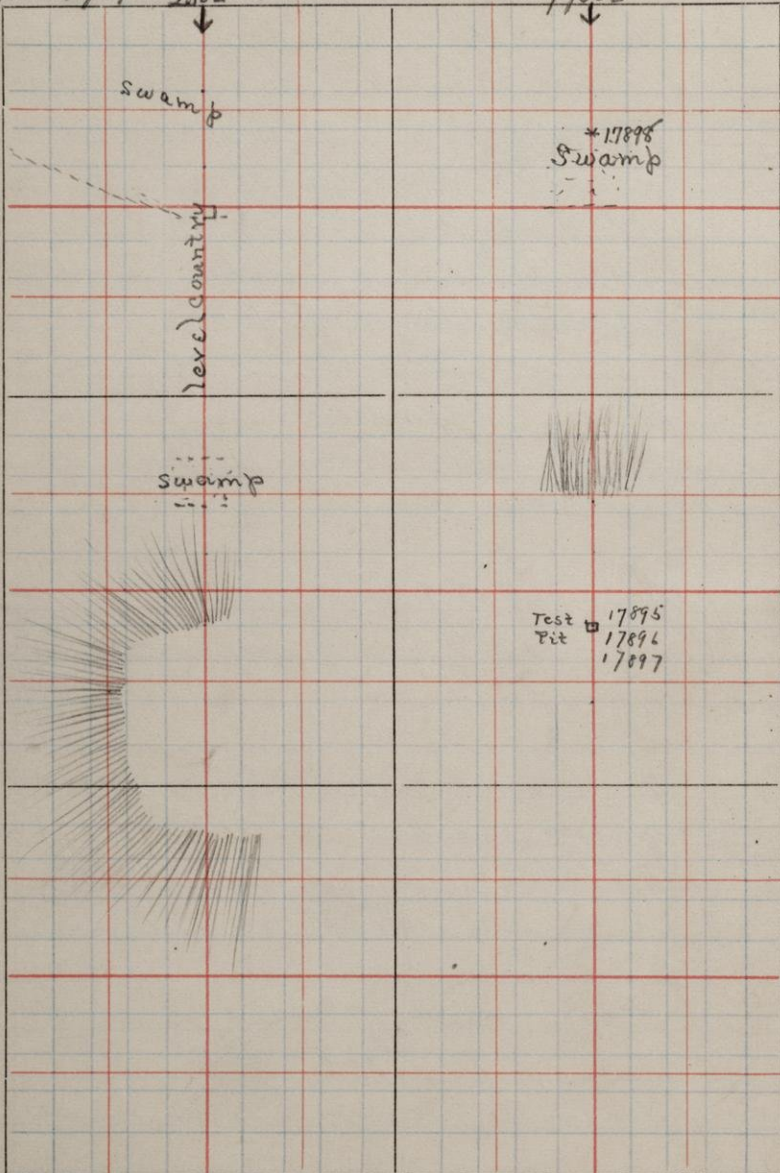
17889 Specs { 17889 }  
 17890 { 17890 } greenstone  
 17891 { 17891 }

17891 On running west to corner having reached the line in 635 steps from where we started we found that our line line had been run 630 paces east of west line of Sec 14 T47 R27 W.

For topography see map

NW 1/4 4 T. 47  
250E

R. 27  
750E



Swamp

\*17898  
Swamp

level country

Swamp

Test 17895  
Pit 17896  
17897

Three parties went to new  
cor Sec 4 47 27

Luther with Oley and ~~Alley~~ with  
me ran South 200 paces on  
line through swamp then  
250 E. Luther ran <sup>to</sup> 500 E while  
I continued south on this line  
275 S left swamp. Slight rise  
in ground County level to  
350 S then short piece of  
Swamp

640 S out of swamp and grade  
near of county

800 S top of low hill. This low  
hill spreads far to the east  
and flattens out to the south.

A gradual descent begins at  
1150 S. (NW cor Sec 4-47-27)

1530 S 280 E A ledge of bedded  
graywacke Dip 45°  
Strike 120 N of W

17892 Bedding almost parallel also 11 to  
bedding Took Spec 17892

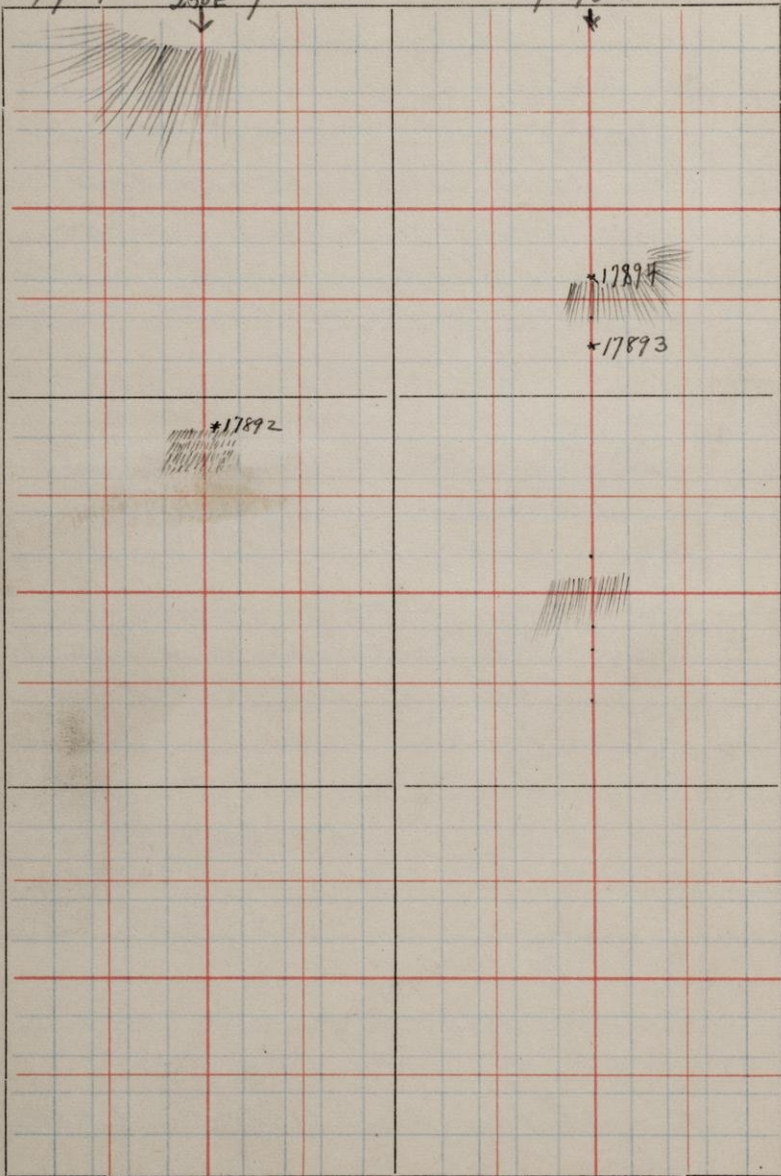
Ledge 6 ft high 10 ft wide 10 paces  
long

1530 S top of precipitous descent

Sw 1/4 4 T. 47

250E

R. 27 750E



with 4 pieces of similar rock  
 1600 <sup>5</sup> foot of hill  
 1650 south. Turned east to  
 meet Van Dutton.

Alley corrected up on corner  
 and found as on Thursday  
 he had made the mile in  
 1925 paces.

Ran north from 170

280 N top of rise to level

570 N 710 E of SW corner 4 18  
 paces long 6 ft wide dipping

37° N Sloping 7° N of W. top Spec

17893

17893. A serpentine schist  
 much weathered on surface.

A number of test pits in  
 vicinity - seemed to have found  
 nothing

600 N foot of slope 650 N to top

of large exposure of quartzite

17894

with Spec 17894 from large  
 exposure sloping south quite  
 rapidly.

1370 N Country very level up to this  
 point.

1200 N took specs of same rock

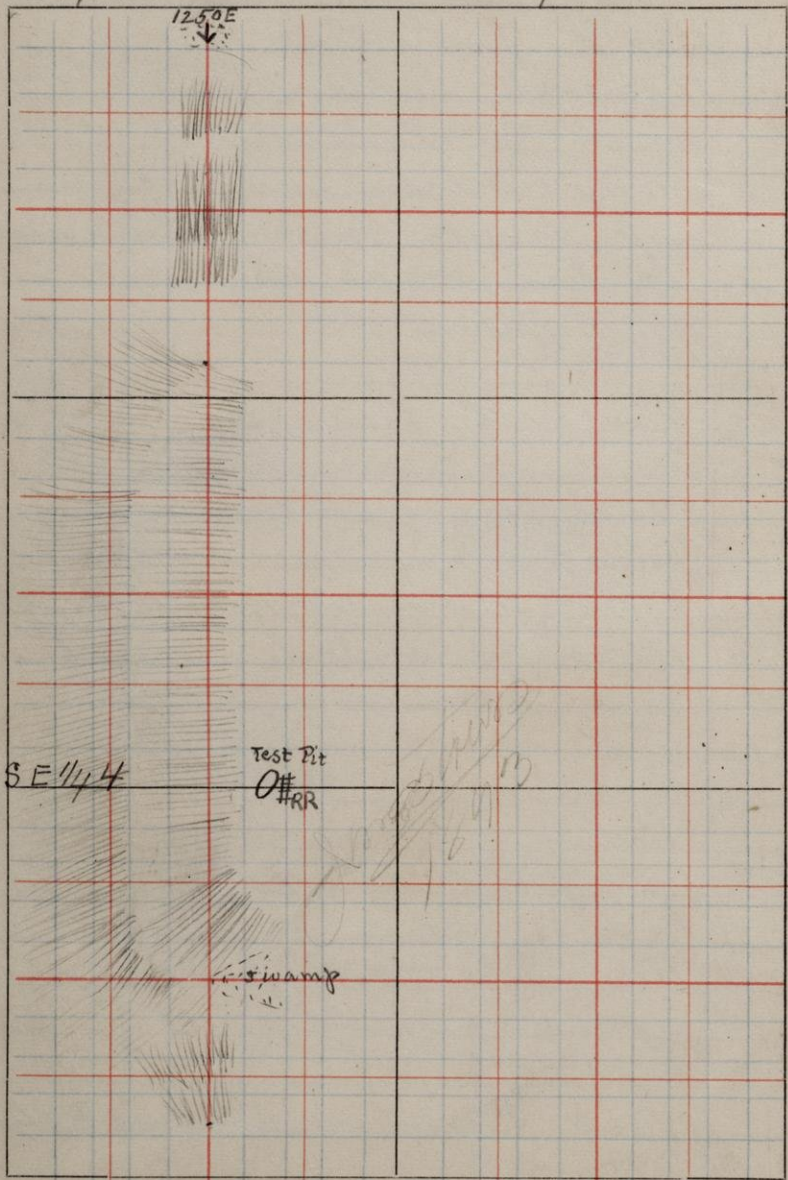


NE 1/4 4

T. 47

R. 27

1250E  
↓



SE 1/4 4

Test Pit  
0#RR

Swamp

Swamp

Jean test pit. This <sup>pit</sup> is fifteen  
paces long 4 paces wide - filled  
and shows no ledge. Yet the  
pile of debris on east side led  
me to believe that ledge was  
PRESENT

- 17895 Took Spec. 17895 bands colored
- 17896 17896 red
- 17897 17897 Chert of brown rock

1370 N begins a very gradual and  
long slope to Swamp

1750 N swamp  
SW cor see 4-47-27.

1840 N. 70° E ledge of finely banded  
gray shale. Small of fossils

17898 Dip 62° S (3) strike 16° S of W  
Spec 17898. Ex fossils all  
along north side of E slope.  
Strike line at 1920

Run east to 1250 E  
Line leave swamp about 60 paces  
East of 1/4 post  
1270 E Swamp.  
45° S Swamp ends  
80 S ascent of hill  
166 S top of first level of hill

350 S top of second level

455 S gradual descent into swamps to the south and west but on the east slope of hill

1010 S 1345 E RR tracks.

Track on east side of a large pit (25 x 50) Long axis of pit very nearly east and west.

Pit full of water and no exposure of ledge to be seen. The dump heap shows two kinds of rock

Spec H gray slate and  
Spec 1899 Iron Rock 

Location	1000 S	} m. W cor
	1330 E	

 4-47-27

✓ 17899

1045 S Small pit 10 x 5 ft

4 pm of chert on strike 50 S of W

✓ 17890  
17900

Dip 65° Spec 17890

1055 S a small ledge of similar rock.

1245 S proceed through neck of swamp just missing by land west.

1260 S begin ascent of hill

1430 S top of hill } Sand hill on

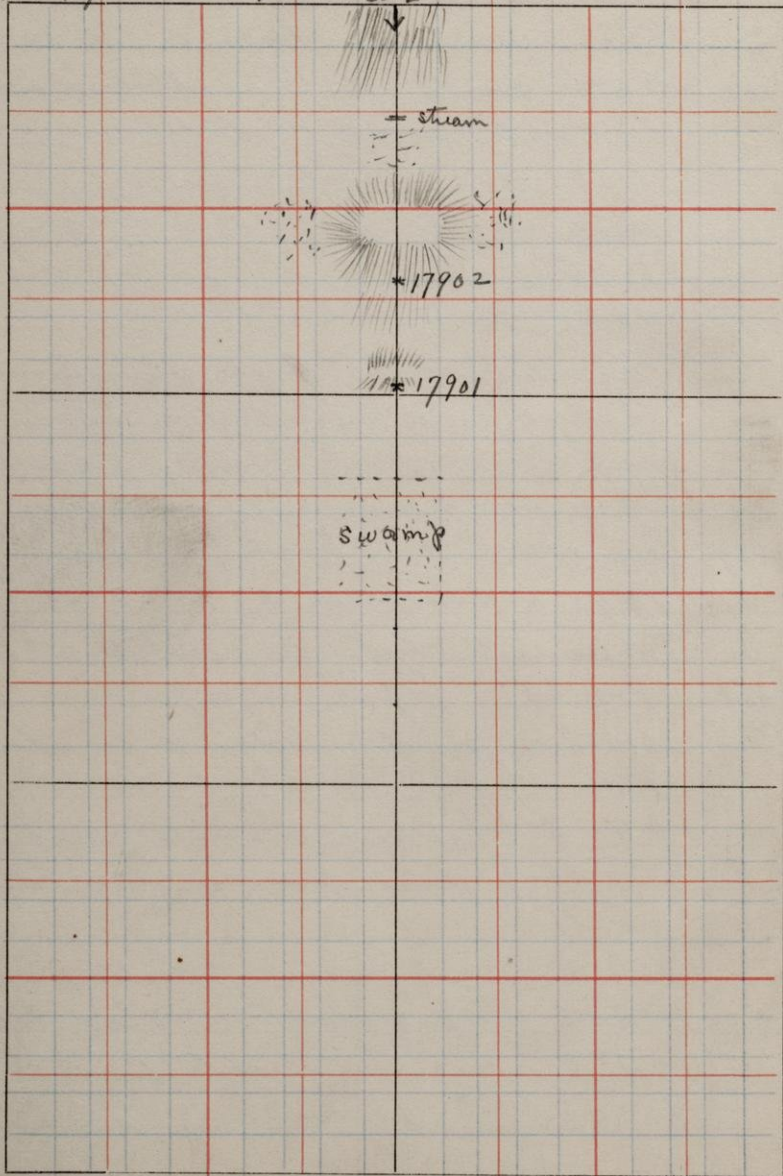
1525 S descend hill } shown by RR cut

1670 S to swamps.

NW 1/4 33 T. 48

R. 27

570E



Aug 17 1891

Two parties Luther Alley  
Howie & myself

Started from swamp west  
114 feet of Sec 33-48-27  
Continued north 250 paces and  
then ran east 500 paces along  
north slope of hill.

1240 N swamp begins  
1400 N Swamp ends

level country

<sup>500 SW cor sec 33-48-27</sup>  
1520 N <sup>Small & prime</sup> of quartzite  
agglomerate - top Spec 17901

17901

<sup>500 E SW cor sec 33-48-27</sup>  
1650 N <sup>South slope of large ledge</sup>  
top Spec 17902, quartzite

17902

agglomerate surface as reticulate  
agglomerate structure  
1700 N top of ridge

Ledge makes east into swamp  
also west to swamp

1800 N top of hill

1855 N stream 4ft wide

1900 N top of ridge

1940 N top facing south

6ft high quartzite schist

2000 long quartzite ridge & face

for a long distance west of this  
out here

Weathered surface shows large  
pebbles from  $\frac{1}{2}$  in to  $\frac{1}{4}$  in diameter.

These exposures are remarkably  
interesting and can be easily  
reached from the Deer Lake  
road which runs just at  
the foot of east end of ridge  
215 N & road - beyond the  
river has blocked up its valley  
nearly to road and we were  
compelled to set off. 235 N  
340 E of Sw cor Sec 28 across  
ridge dips into swamp.

Its surface also shows thin  
conglomerate thin lens.

350 N 340 E river same ledge  
exposed here

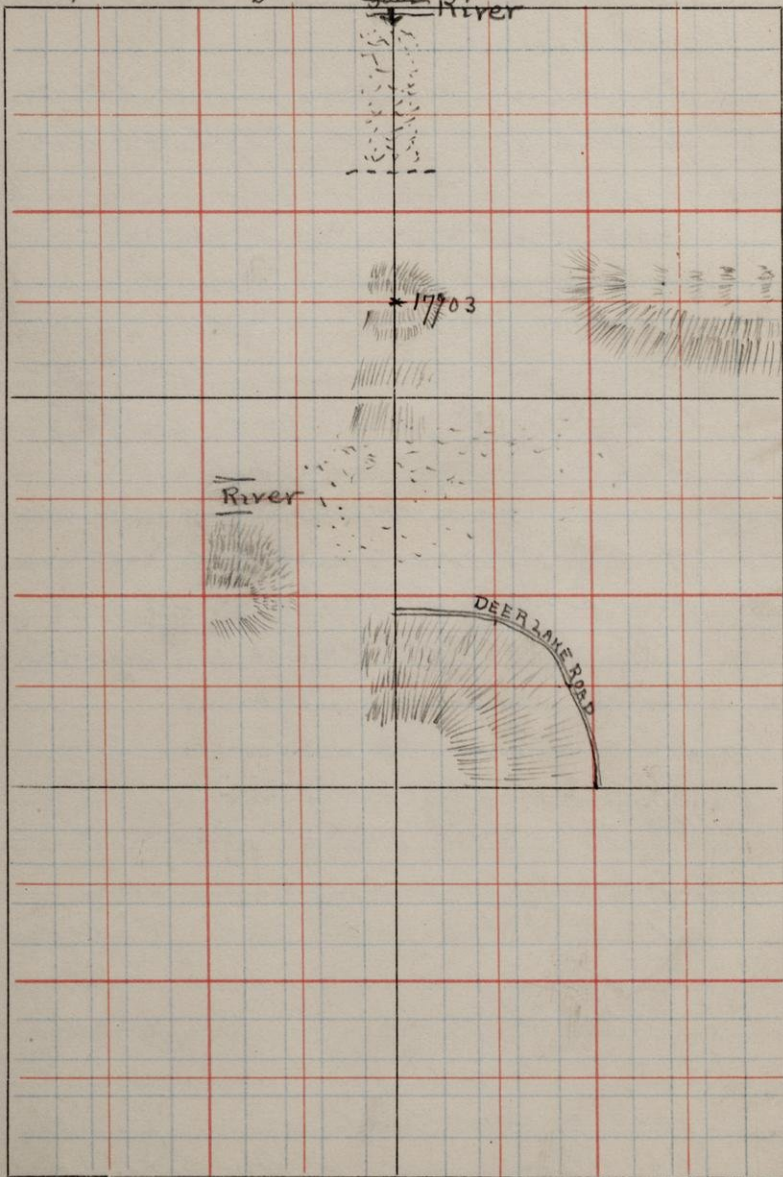
400 N 340 E other side of river  
ledge of greenstone just back  
Retired east the 160 paces.

500 N small flat exposure at  
foot of low hill.

550 N other side of low hill - large  
ground exposure greenstone - aggl. ab.

SW 1/4 28 T. 48

R. 27



500 E Sw cor Sec 28-48-27

11

17903

640 N ledge Spec 17903 greenish

Schist of sand on south side  
of low ridge which  
slopes into swamp.

660 N foot of hill

800 N stretch swamp.

1000 N came to river

Could not cross

Ran back to 650 N and ran

east from here

1300 E top of hill, this is practically  
a big ledge of greenish schist

650 N Sw cor Sec 28-48-27  
1500 E top of next level of same  
hill small cut between

17904

Took Spec 17904 greenish  
agglomerate

Continued east over knob of same  
rock to 1500 E

Then ran south.

Swamp begins 1500

1600 E NW cor Sec 28-48-27  
1700 S ledge Took Spec 17905

17905

Hand specimen does not show  
that it is an agglomerate but  
material surface of ledge does  
1860 to river. Could not cross

Ran west 1/2 mile then back

to south side. Estimated it 100 ft  
across



SE 1/4 28 T. 48

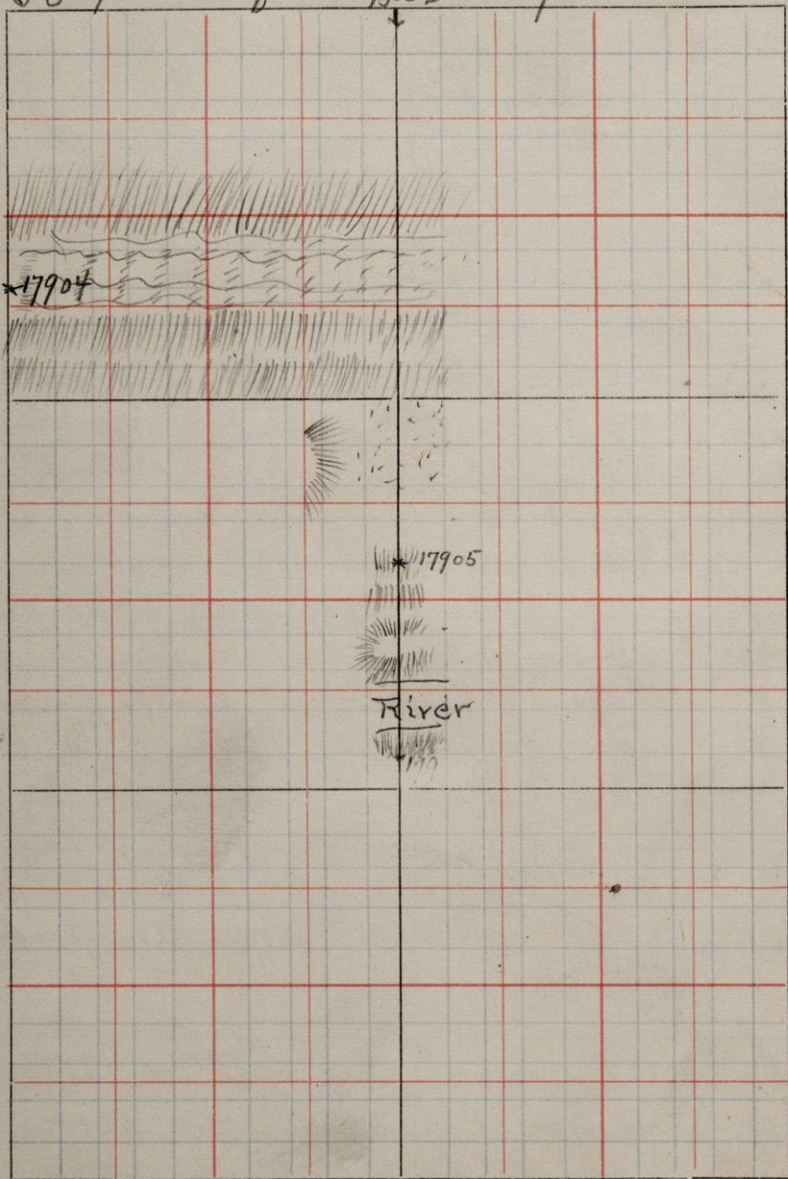
1500 E

R. 27

\*17904

\*17905

River



1960 S ledge (opp<sup>n</sup> <sup>or south</sup> side of ruin)

70 S to swamp

300 S out of swamp

340 S Road (Deer Lake)

400 S Large ledge quartzite

Schist contains small quartzite  
 pebbles. Took Spec 17906

430 S another large, and similar  
 exposure on other side of low  
 hill.

Low land, and 50 paces of  
 swamp which widens out to  
 the east of us.

700 S large knot of greenish  
 schist agglomerate.

715 S top of knot.

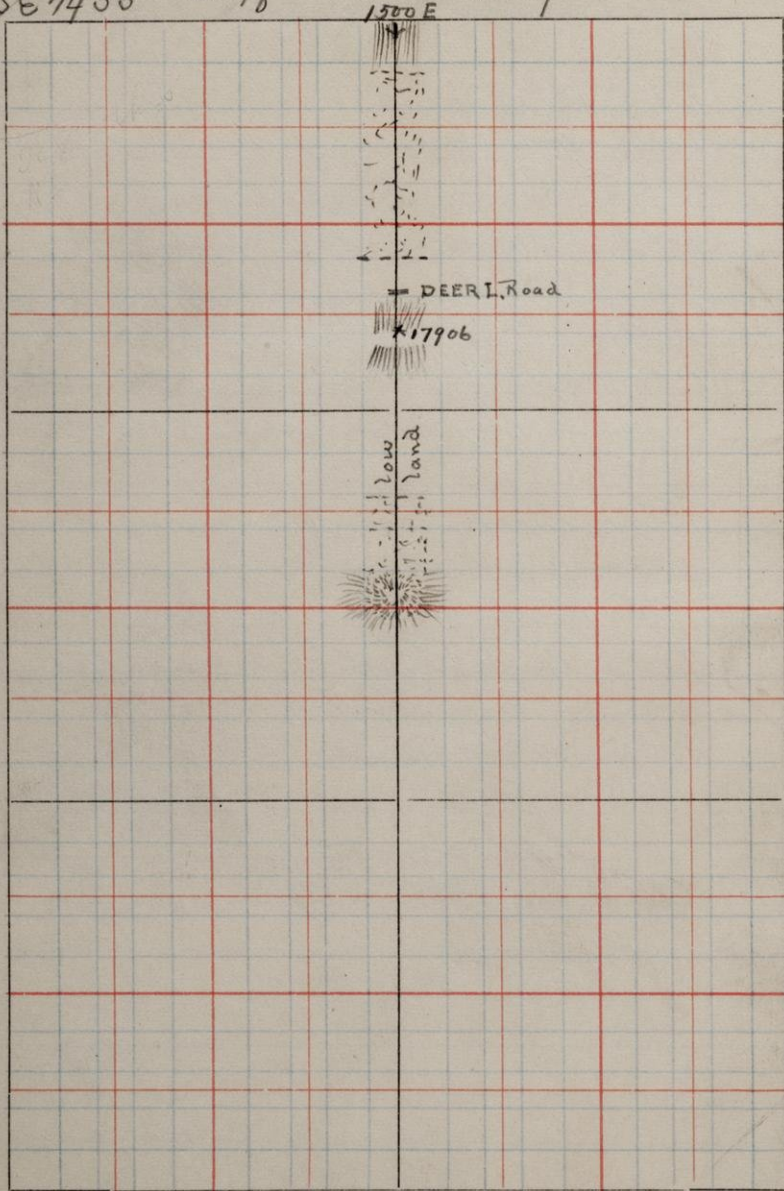
760 S to other side of knot or foot  
 low country

890 S small ledge

✓  
 17906

NELLY see notes on spec 17906.  
SE 1/4 33 T. 48

R. 27



Aug 18/89

Run north from Sw cor Sec  
21 T48 27

50x Sw cor Sec 21 - Greenstone

17907 Took spec 17907 from top of  
high bluff

190 N hill begins to descend

240 N top of <sup>of sw cor sec 21-48-27</sup> ridge & slope

17908 280 N top of ridge took spec 17908

Greenstone

360 N ridge runs into another  
bet. low here

400 top of next roll. Ledge of greenstone  
500 " " "

580 ledge of greenstone

600 N small ex. of greenstone

Hill begins to slope

780 N foot of hill

800 N Swamp

1060 N 1/4 S.

1065 N little stream 3 ft across

Sandy bottom.

Swamp to 1100 N

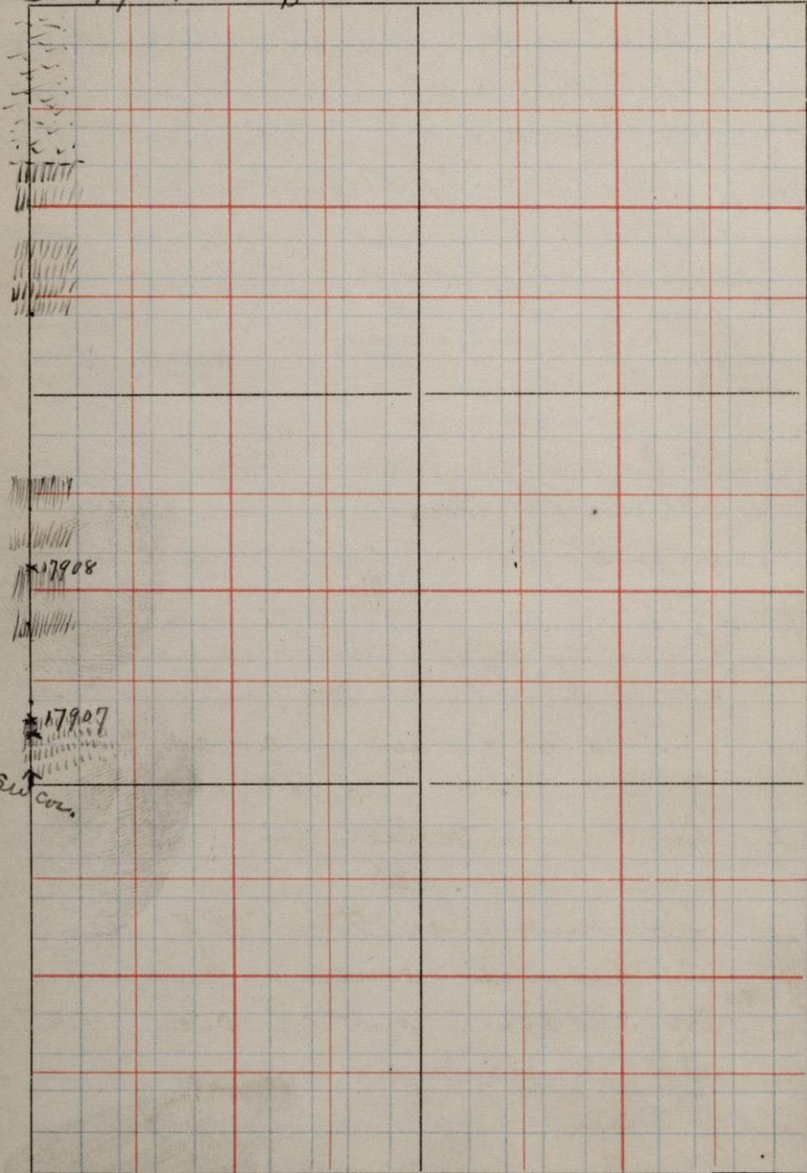
1175 N turned east

1240 N 125 E of Sw cor Sec 21

48-27 large ledge forming  
East end of hill.

SW 1/4 21 T. 48

R. 27



17908

17907

SW corner

This on weathered surface shows a  
banded stria chert which is not  
so apparent in hand specimen

✓  
17909 Took Spec 17909  
Dip 89° N Strike 80 S of W  
at 1 ft wide quartz seams runs  
through the ledge 11 & bands.

17910 Quartzite hill 1050 S took spec  
17910 Quartzite  
1100 S foot of hill  
1250 S road and ledge of  
greenstone on south side.

17911 exposure for 1000 feet east of  
same ledge Took Spec 17911  
Run east.

1250 S 680 east of NW cor Sec 21  
48-27 took spec 17912 from  
17912 large ledge of greenstone

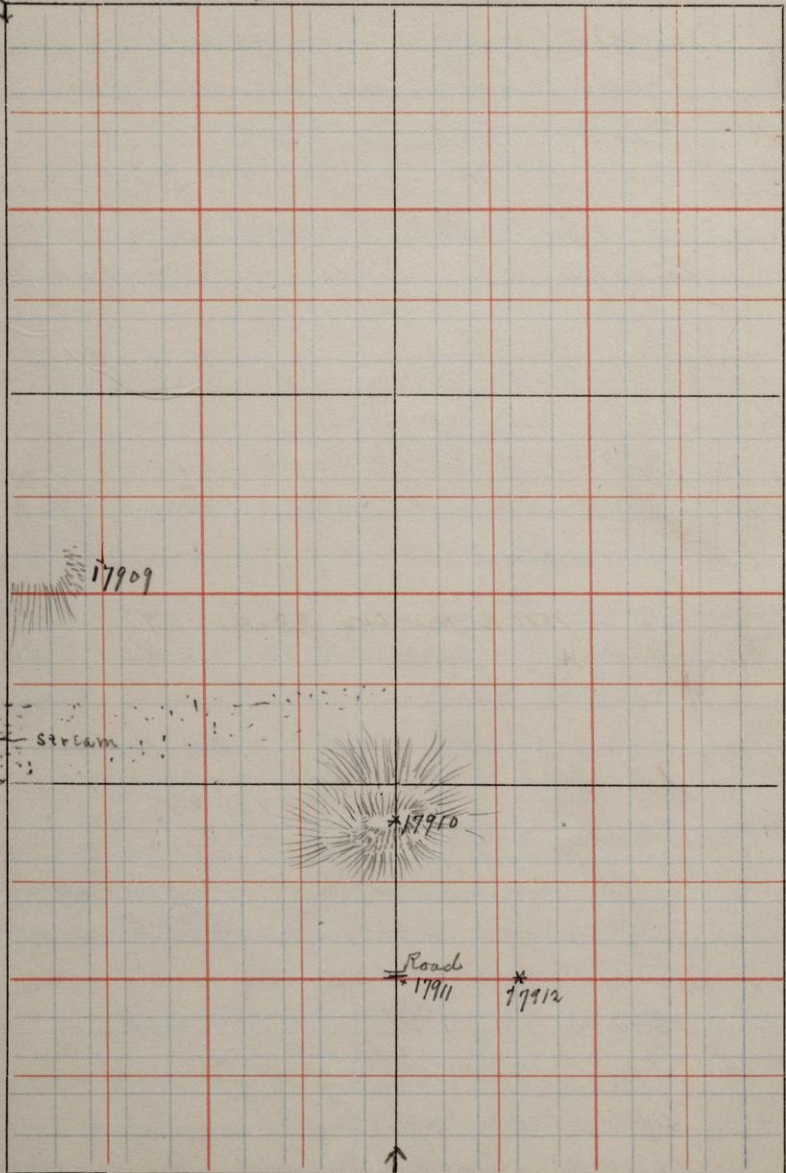
Continued east to 1500 E and  
then turned south

✓  
17913 1540 S 1500 E NW cor Sec 21 48-27  
Spec 17913 greenstone from  
south side of hill  
1560 S foot of hill

MUSCOV

NW 1/4 21 T. 48

R. 27



\*17909

stream

\*17910

Road  
\*17911

\*17912

↑  
500E

1600 S beginning of another hill

1750 S big bluff of greenstone

✓ 1820 S 1500 E of nw cor sec 21 48-27

✓ 17914 took spec 17914 from top of greenstone bluff.

3000 S a immense circular hill bluffy (precipitous) on all sides

1900 S into 28-48-27 foot of bluff.

✓ 200 S level passes along precipitous east side of greenstone hill

✓ 17915 1500 E nw cor 28-48-27  
260 S took spec 17915 from side of this greenstone hill

325 S valley betw ean greenstone hills

✓ 17916 1500 E nw cor 28-48-27  
350 S took spec 17916 from top of bluff greenstone

These hills are very high and almost bare of foliage

Run west to 500 E-28-48-27

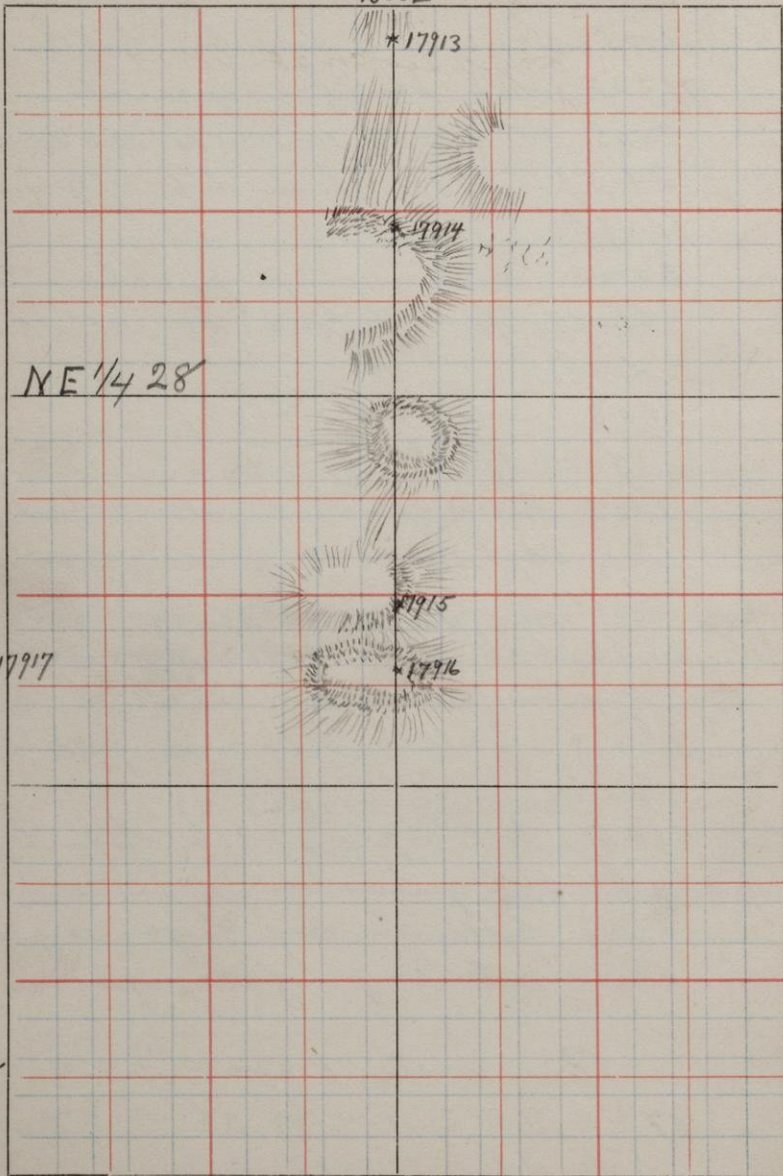
975 E 350 S nw cor 28-48-27

✓ 17917 took spec 17917 from a greenstone bluff



SE 1/4 21 T. 48

1500E R. 27



\*17913

\*17914

NE 1/4 28

\*17915

\*17917

\*17916

Rim north on 500 E

1750 N Road

500 E of Sw cor 28-48-27

17918

1775 N Big ridge of Peridotite running  
east and west.

From this ridge the natives  
take many specimens of Chrysotile  
or as they call it asbestos

Spec 17918

1330 N top of hill

Rim into 21-48-27

17919

210 N 500 E took spec 17919

from greenstone ledge

17920

440 N 500 E spec 17920 greenstone

17921

520 N spec 17921 from top of

a greenstone hill.

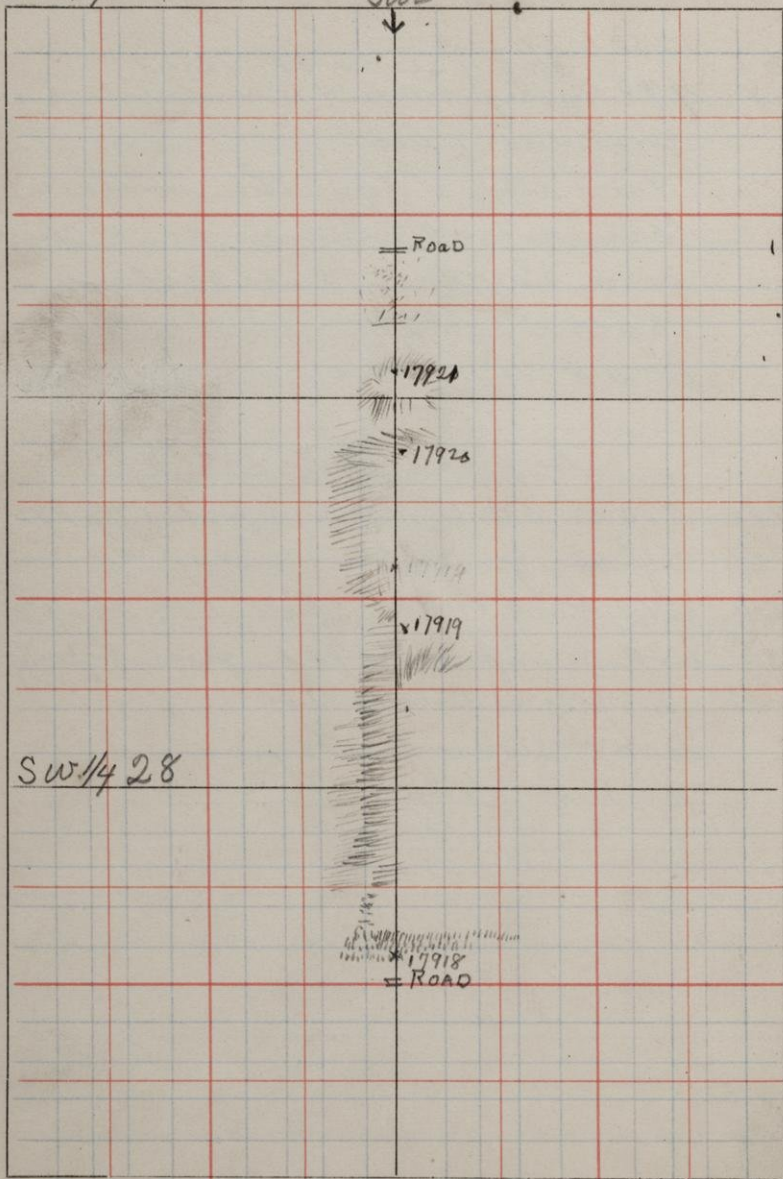
1600 N swamp begins

695 N road

SW 1/4 21 T. 48

500E

R. 27



Aug 19 1891

and 300  
Started 500, E<sub>N</sub> of SW cor of sec 27-48-27

370 N by way of hill ledge of

greenish agglomerate

17922 400 N of <sup>500 E SW cor sec 27-48-27</sup> hill Spec 17922

quartzitic agglomerate

485 N little knob of greenish agglomerate

360 N + face of greenish facing south.

580 N <sup>500 E SW cor sec 27-48-27</sup> face of greenish Took

17923 Spec 17923

590 N flat top of greenish

750 N 400 E of SW cor sec 27 took.

17924 Spec 17924. This is a quartzite agglomerate. High bluff on east end.

820 N top of slope of a high precipitous hill of black crystalline

17925 rock. Took Spec 17925  
Peridotite

1000 N at foot of hill

1100 N of marsh

1165 N of River

1475 N <sup>500 E SW cor sec 27-48-27</sup> to bluff of quartzite took

17926 Spec 17926

1645 N agglomerate ledge large

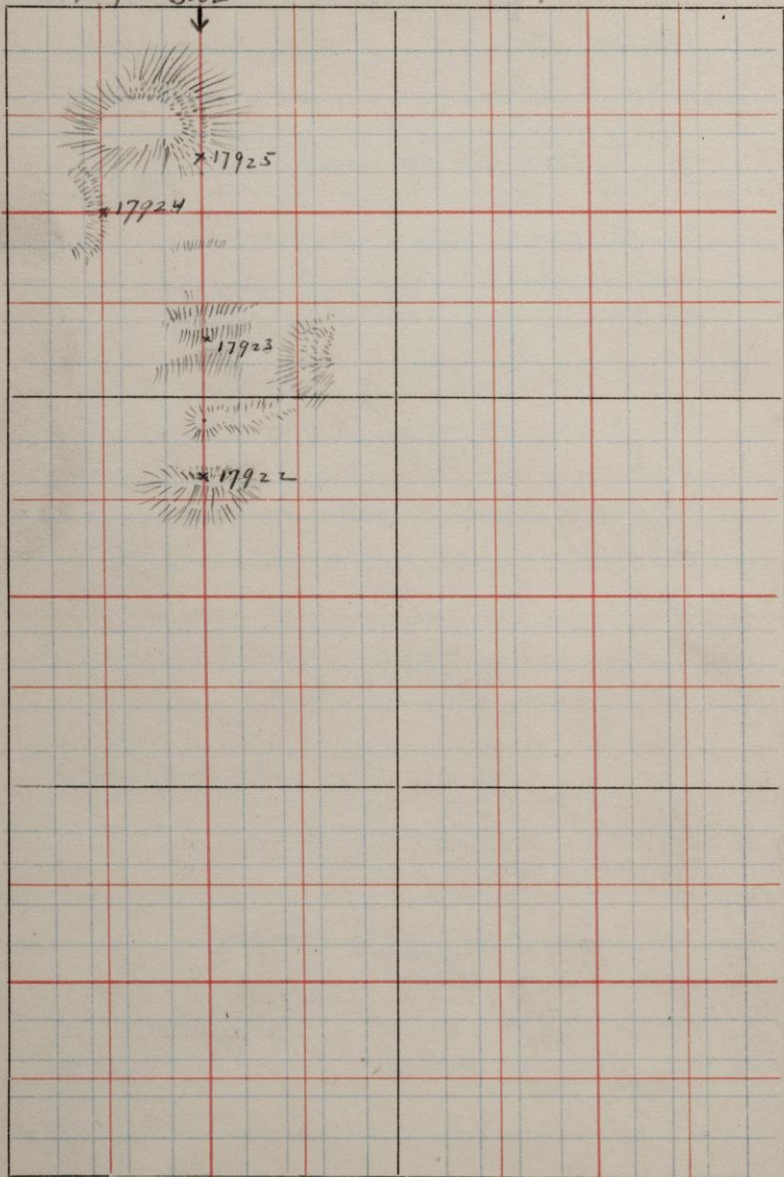
1685 N " " "

1725 N valley

sw 1/4 27

T. 48  
500E

R. 27



1800 N foot of long ridge - precipitous  
to south - not much broken in cross

✓ 17927 1850 N <sup>500 E sw cor Sec 27 48 27</sup> top of Spec 1727 greenstone  
agglomerate

1895 N top of ridge

1955 N top of knot of agglomerate

2000 N small swamp

70 N end of swamp and  
long flat exposure of greenstone  
agglomerate occurs

135 N large exp. of agglomerate  
shelving off to a marsh on  
the north

✓ 17928 170 N <sup>500 E sw cor Sec 22 48 27</sup> greenstone top of Spec 17928

310 N east end of low ridge of  
agglomerate peters out.

475 N marsh begins

490 m stream

750 N end of marsh

775 m greenstone ledge top

✓ 17929 Spec 17929

810 small exp. same ledge as Spec

17929

900 N Swamp

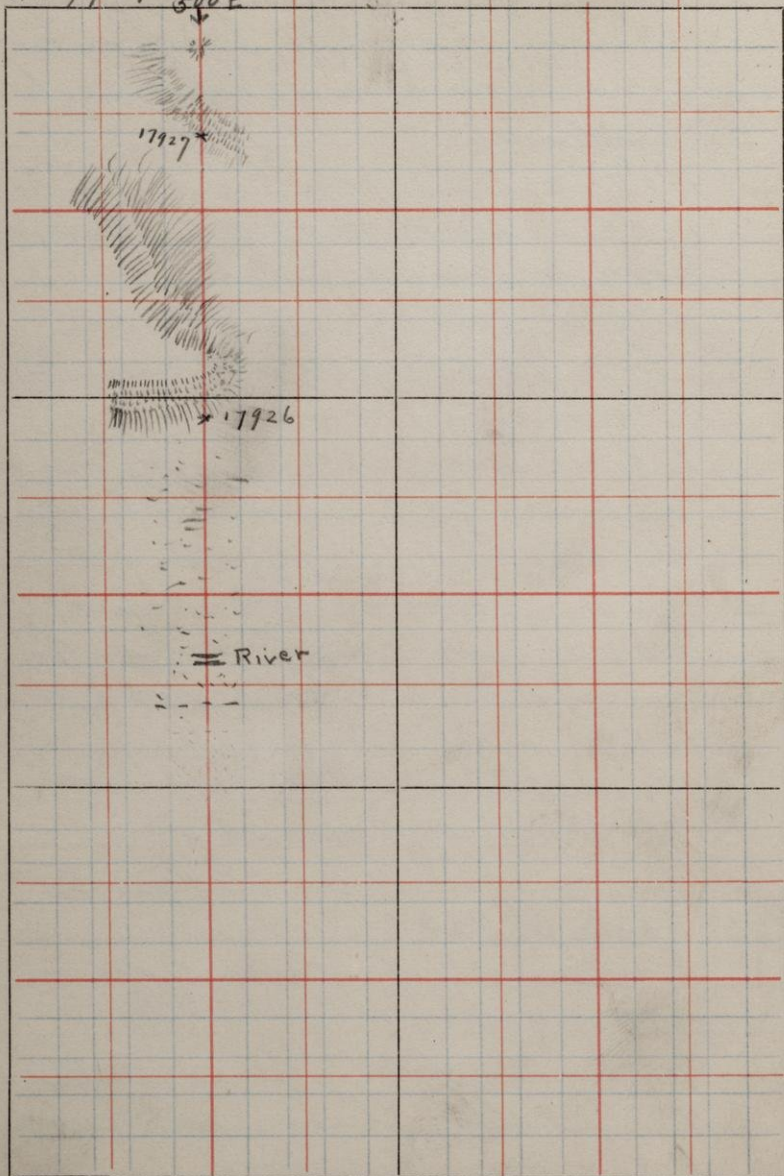
955 little stream 2 ft wide

1240 N out of swamp

1385 top of rise

NW 1/4 27 T. 48

R. 27



✓ 17930 1355 N 458 E of SW cor Sec 22  
took spec 17930 from agglauite  
bedge

✓ 17931 Plain to 1950 N  
2000 <sup>500 E of SW cor Sec. 22-48-27</sup> on hill side took spec  
17931 - large quartzite bedge  
Howe's man went to corner and  
found that his line was  
too far east by 50 steps i.e.  
350 E of corner and that an  
north and south course he had  
made the mile in 2065.

Run north in Sec 15

25 N top of hill

500 N swamp. Hill slopes very  
gradually to it - no exposures  
596 N out of swamp foot of hill  
625 N to 4 p.m ridge of banded  
graywacke

✓ 17932 700 N <sup>500 E of SW cor Sec 25-48-27</sup> to precipitous slope of  
hill. Took spec 17932 from  
the point. Banded graywacke

Strike ~~10°~~ 5° N of N

2 <sup>1/2</sup> 12° N of N

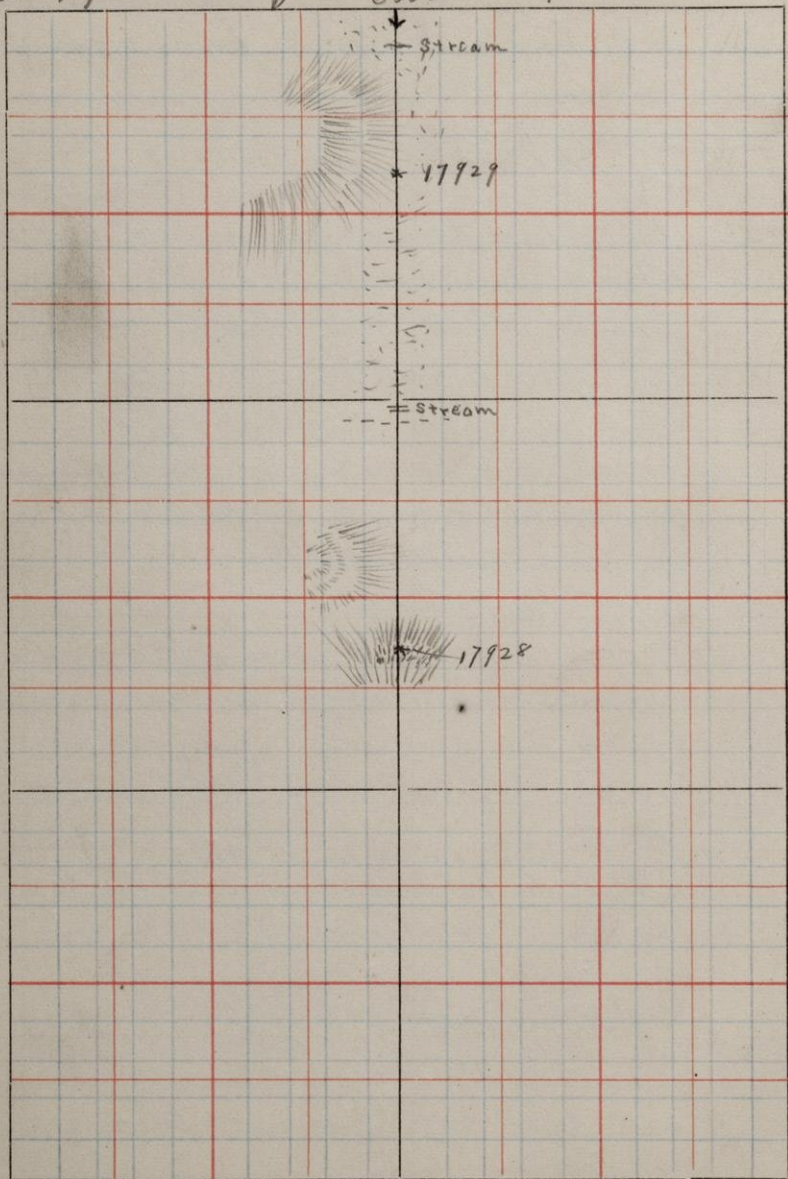
all dip to north but no chance  
of taking line dip.

900 N foot of hill and on road



SW 1/4 22 T. 48

500 E R. 27



North just low rolling country  
for a number of miles.

Turned east.

600 E Swamp

665 E crossed stream 2 ft wide  
in swamp.

726 E crossed stream 4 ft wide

760 E " " " " " again

925 E out of swamp.

1000 E turned north

17933 1150 N <sup>sw cor Sec 15-48-27</sup> 1530 E <sup>sw cor Sec 15-48-27</sup> junction Spec 17933

1200 N short dip of hill.

This hill rises to the east as a  
big bluff of quartzite. 1100 E  
gauge below this hill & bluff

1225 N Creek

1250 N <sup>1500 E sw cor sec 15-48-27</sup> ledge of quartzite

17934 and foot of hill. Took Spec 17934

1465 N top of hill app. of quartzite  
all around.

17935 1560 N <sup>1500 E sw cor sec 15-48-27</sup> top Spec 17935 of quartzite

1625 N <sup>1500 E sw cor sec 15-48-27</sup> top of hill. Almost

+ slope

This + slope has quartzite exposed

17936 Took spec 17936 white quartzite

1700 to swamp

17937 1810 N <sup>1500 E sw cor sec 15-48-27</sup> banded rock grey wacke  
with Spec 17937

NW 1/4 22 T. 48

500 E R. 27

ROAD

Prains

17930

Swamp

Strike 180 N of west  
Dip 50° N.

Aug 21 1891

740 W 1050 N of SE cor of S 16-T 48-27

2. or 1260 E 1050 N of SW cor Sec 15-48-27

17938  
W. Spec 17938 from small  
ledge. Run south from 1500 E  
1320 S to end of swamps

gradual slope to high hill  
thin runs in valley.

1540 S <sup>1500 E NW cor sec 15-48-27</sup>  
Small exposure 2 ft +  
on slope of hill took spec.

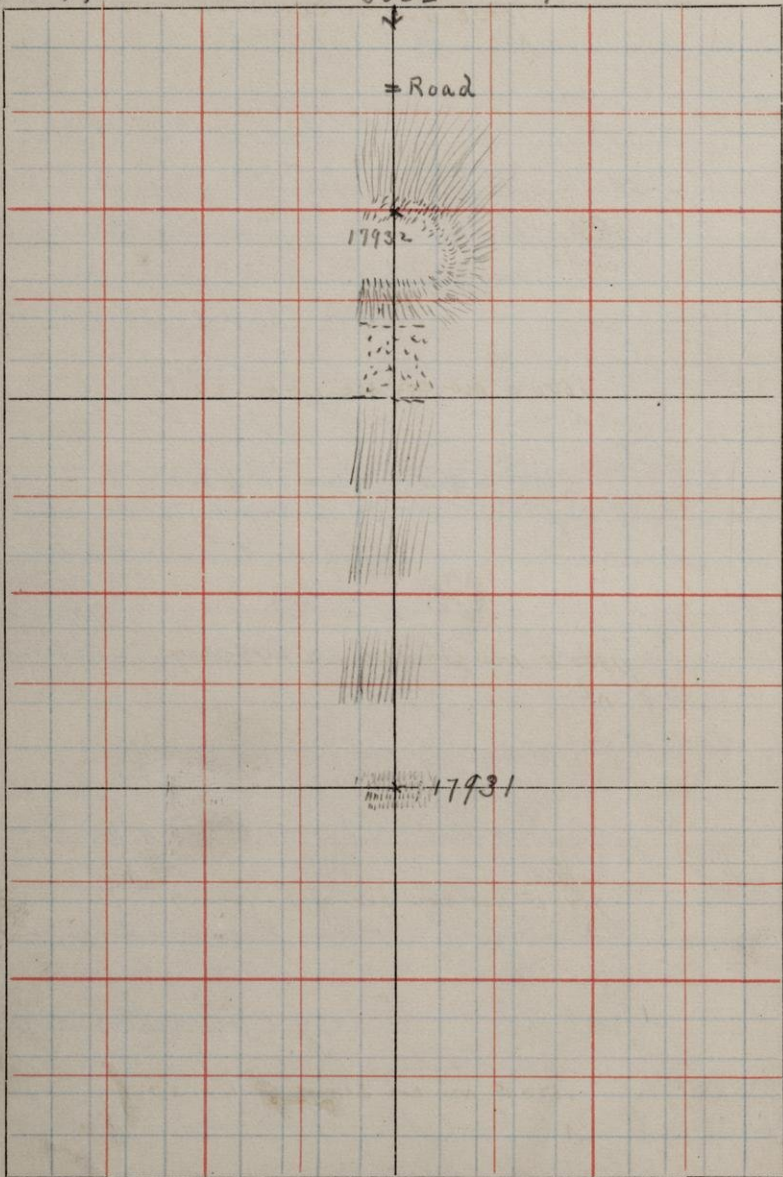
17939 17939 greenstone  
1570 S large exposure of quartzite  
1580 S " " "

1590 S 1500 E NW cor sec 15-48-27  
1630 S flat exposure of banded  
greywacke. Strike 50° N of W. Could  
not take dip. Spec 17940

17940  
1630 S top of hill  
1675 S large exposure east and  
west of same rock. The banding  
is much coarser than I have seen  
it before - from  $\frac{1}{16}$  to 2 in. the  
white predominating  
Hill slopes rapidly, though not

SW 1/4 15 T. 48

500 E R. 27



precipitously,  
 1775 S <sup>1500 E NW cor sec 15-48-27</sup> on side of hill west pit

17941 bot. Spec 17941 from debris.

Could see rock in position. Barbed

greenish

1815 S foot of hill

1840 S little 2 ft stream

1875 S out of swamp.

1920 S ledge of quartzite.

17942 1940 S <sup>1500 E NW cor sec 15-48-27</sup> bot. Spec 17942 quartzite.

1975 S on top of hill - flat of pond

17943 2 greenish Spec 17943

2000 S 1480 E large of pond of  
 greenish on top of hill.

<sup>1500 E NW cor sec 22-48-27</sup>  
 80 S  $\wedge$  15 ft bluff of greenish

17944 Spec 17944

190 S A large of greenish

hill begining at 1940 S in  $\searrow$  15 degs

$\frac{1}{2}$  slope very gradually

17945 250 A <sup>1500 E NW cor sec 22-48-27</sup> North Spec 17945 greenish

350 A S large of the west on hill

100 ft. west of us sloping precipitously.

The hill slopes more gradually.

5 M S <sup>1500 E NW cor sec 22-48-27</sup> precipitous rocky slope

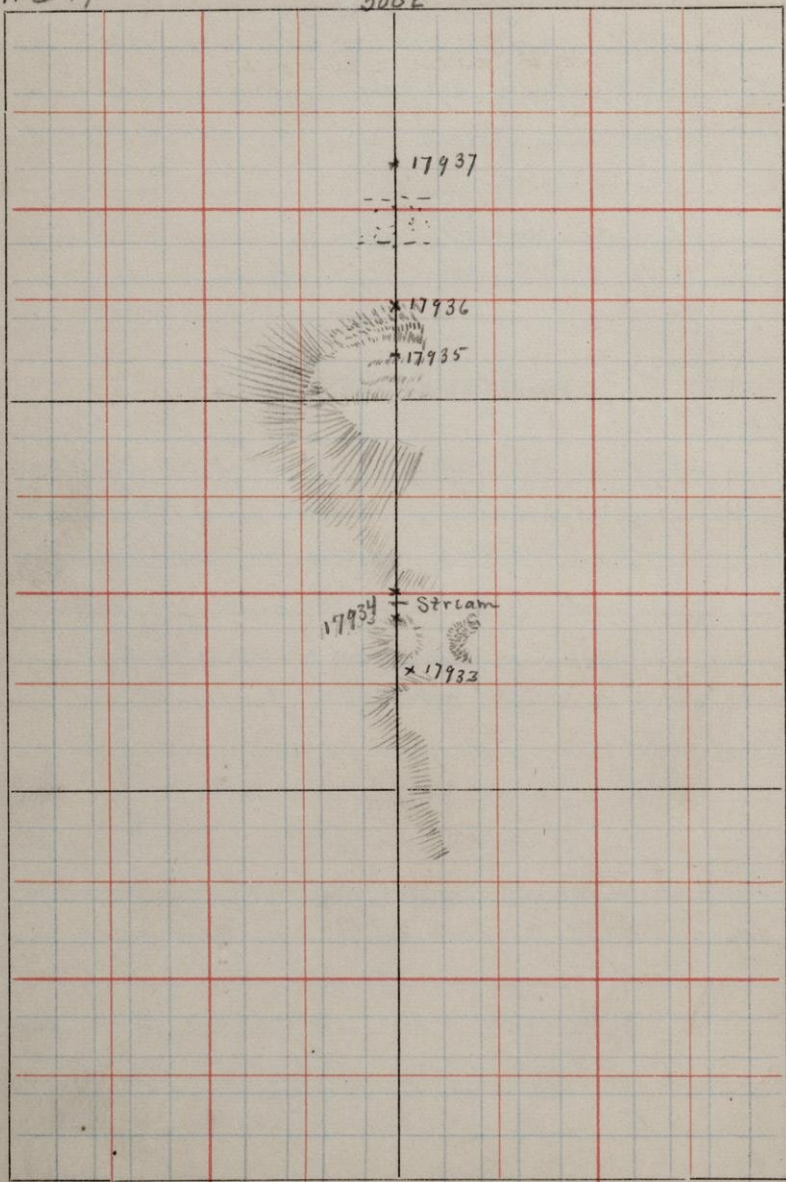
17946 bot. Spec 17946

640 S foot of hill

NE 1/4 15 T. 48

500E

R. 27



885 S Swamp

1200 out of swamp

1240 <sup>1500 E of MV cor 22-48-27</sup> high country followed by swamp

There is large a ledge of greenstone

17947 Spec 17947

1270 S Swamp.

1340 S out of swamp

1350 S top of 6 ft bluff of greenstone

1495 S Small top of greenstone

1625 S <sup>1500 E MV cor sec 22-48-27</sup> whole west of ledges in

17948 vicinity both Spec 17948

1625 S 1500 E of MV cor sec 22-48-27

1690 St River. Ledge of agglomerate

1685 S it (agglomerate) shows plainly  
on weathered surfaces

1750 S across river and swamp

1800 S a big bluff of greenstone



SE 1/4 15 T. 48

1500 E

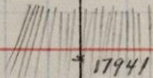
R. 27

Stream  
1/2 mi. Road



\* 17939

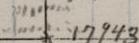
\* 17940



\* 17941



\* 17942



\* 17943

Aug 24 91

Began work at SW cor sec 26  
48-27 and run east in  
swamp.

175 E 1/2 of swamp.

220 E ledge of greenst. + facing  
South.

230 E Small exposure greenst.

500 E exposure of greenst. & quartz  
fragments since

170 SW cor 26-48-27

✓ 17949 500 E <sup>1</sup> look Spec 17949 greenstone  
Turned north.

30 N top of ridge

70 N base of bluff 20 ft high  
and about 50 ft long.

85 N top of bluff of greenst.

105 N top of greenst. on top

115 N slopes with exposure of greenst.

200 N <sup>500 E SW cor. 26-48-27</sup> greenst. agglomerate

✓ 17950 Spec 17950 greenstone

240 N top of coll. of greenst. agglomerate

340 N Small exposure of agglomerate schist  
around lens. Hill slopes away

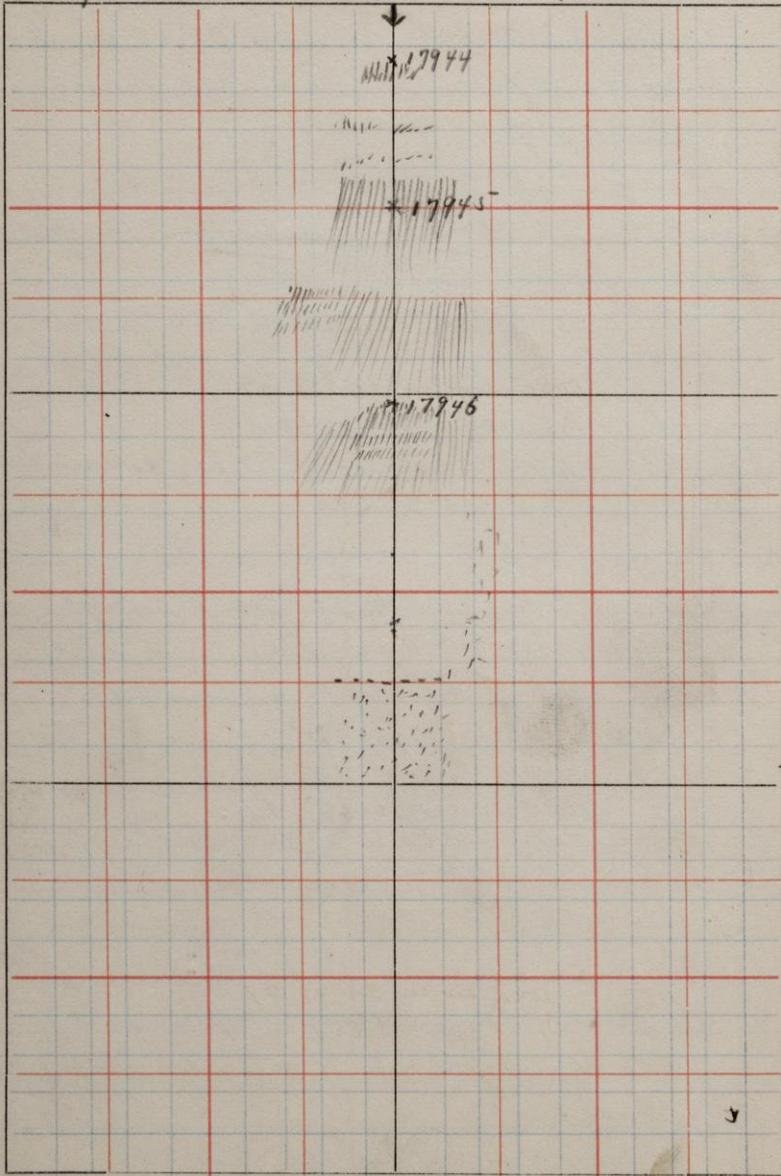
400 N Small exposure of greenst. Slope now  
abrupt.

490 N foot of hill

✓ 17951 505 N <sup>17951</sup> look spec 17951 for top of small I  
500 E SW cor sec 26-48-27

NE 1/4 22 T. 48

1500E R. 27



face

565 N agglomerate of p. hill top  
& slopes

600 N large of p. of agglomerate

foot of hill slope abrupt for 10 ft

625 N small agglomerate of p. from

650 N small " "

655 Swamp

695 end of swamp

17952 715 N <sup>500 E sw con 26-48-27</sup> top of Spec 17952

740 N top of roll agglomerate of p.

770 N top of ridge of "

815 N top of agglomerate on face  
north.

820 N Swamp

885 N end of swamp

885 N face of large rocky ridge

running some distance east  
and wash with many specimens

of green agglomerate.

885 N top of greenish agglomerate

915 N "

985 N <sup>500 E sw con 26-48-27</sup> top of big ridge quite

steep slope. Took Spec 17953

17953 from large greenish ledge

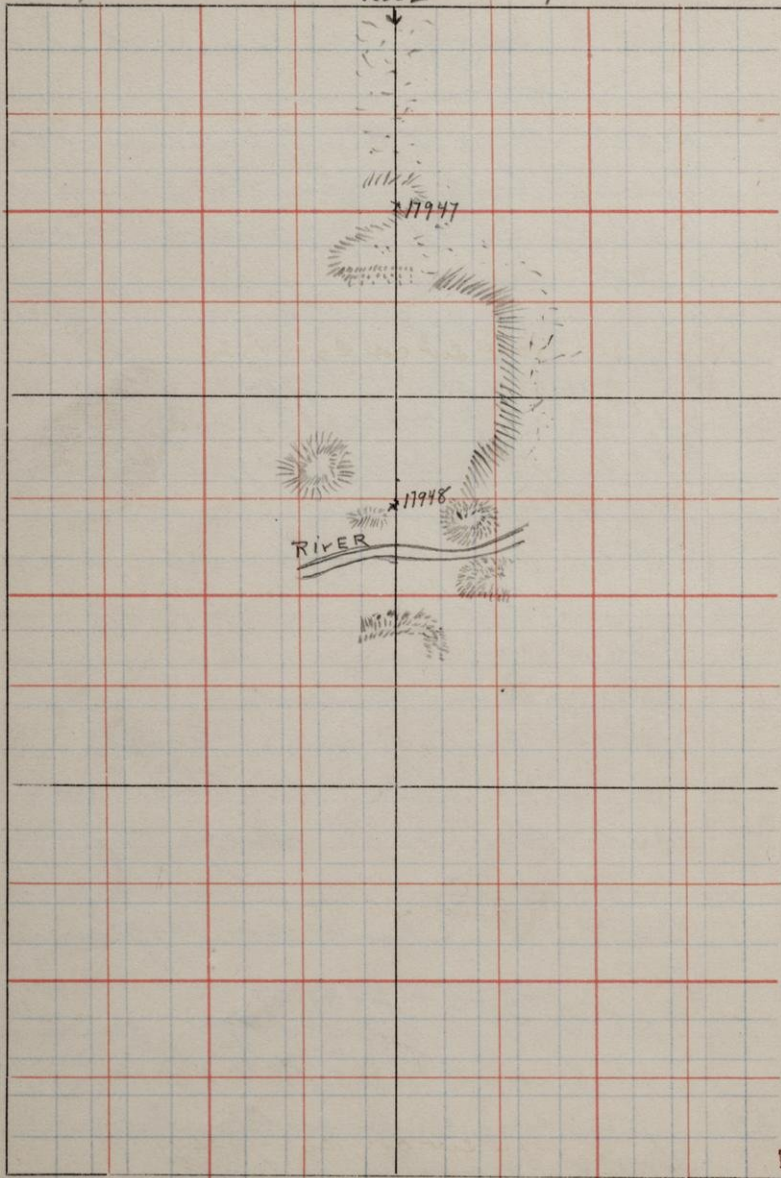
1000 N greenish ledge

1020 "

SE 1/4 22 T. 48

1500 E

R. 27

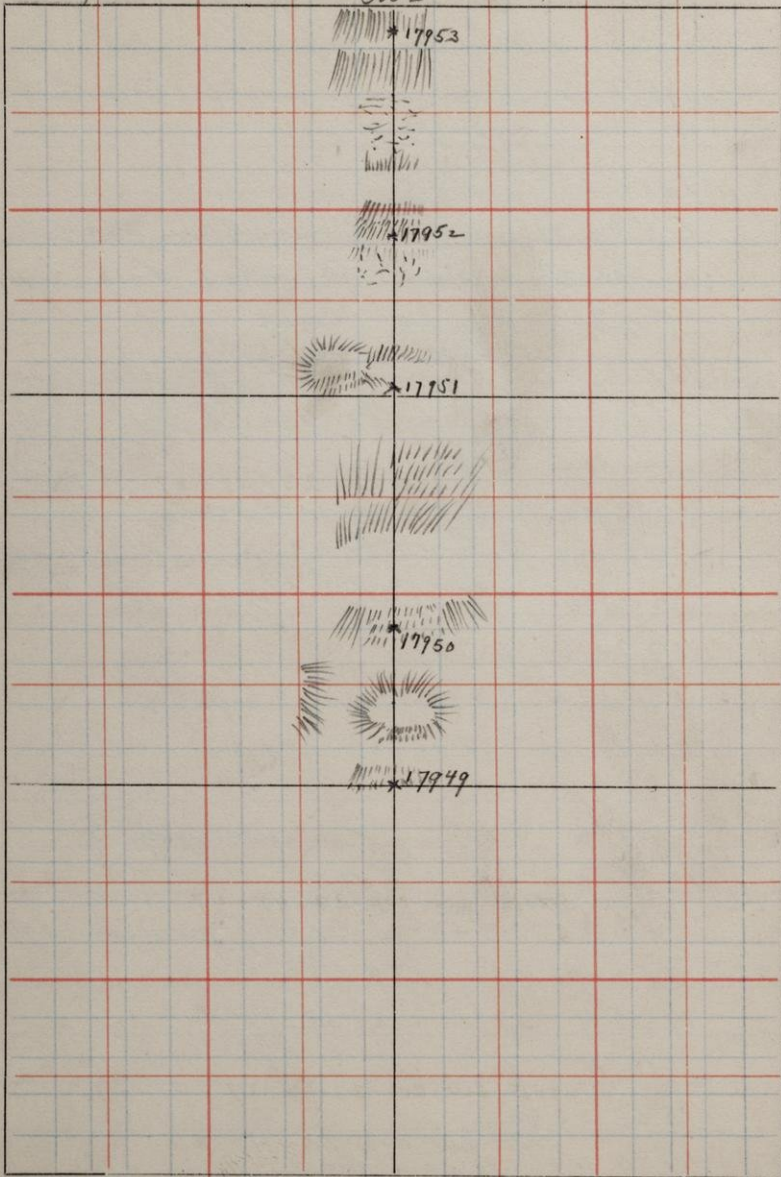


- 1060 N top of roll - large ledge of  
greenish agglomerate
- 1075 N  $\perp$  facing north. Small greenish  
agglomerate
- 1111 N ditto
- 1130 beginning of another roll  
precipitous to west but rising  
at right east.
- ✓ 1170 N <sup>500' SW cor 26-48-27</sup> greenish ledge top of ridge.  
17954 Corral now begins to slope  
away to the north. Top Spec  
17954 greenstone.
- 1220 N long exp. of greenstone agglomerate
- 1240 N bluff exp. of greenstone "
- 1270 N small " " " "
- 1305 N bluff 10 ft high " "
- 1340 N small exp " "
- 1380 N very " " " "
- 1400 N beginning of small rise of "
- 1440 N top of ridge
- 1460 N <sup>500' SW cor 26-48-27</sup> small exp of greenstone agglomerate
- ✓ 17955 Top Spec 17955
- 1465 N a small bluff " " "
- 1510 N small exp " "
- 1530 " very " " " "
- 1540 N <sup>500' SW cor 26-48-27</sup> 20 ft  $\perp$  wall " "
- ✓ 17956 facing north 100 paces long Spec 17956

SW 1/4 26 T. 48

500 E

R. 27



\* 17953

\* 17952

\* 17951

\* 17950

\* 17949

Hunterton country has been almost  
Tare rock.

1615 top of small roll

1670 bluff top to south

1950 480 E of Sw cor sec 26 48-27

thin spec large exp. of greenstone

Does not seem to be agglomerate

✓ 17957 Top spec 17957

1900 ledge of greenstone schist

110 N into Sec 23 exp. green schist

Also east end of roll

✓ 145 N 490 E <sup>Sw cor 23-48-27</sup> look spec 17958

✓ 17958 from flat exp. of greenstone

Sharp slope of hill to Swamp

235 N Small <sup>exp</sup> greenstone schist

360 N Swamp.

440 N river

900 N out of Swamp

990 N base of high hill

1060 N exp. greenstone

✓ 17959 1100 N <sup>500 E Sw cor 23-48-27</sup> thin spec 17959 greenstone

1120 top of 1<sup>st</sup> level

1175

1200 N small exp. similar to spec 17959

✓ 17960 1300 N <sup>500 E Sw cor 23-48-27</sup> thin spec 17960 for small

ground exposure.

1315 N West side of hill ledge



NW 1/4 26

T. 48

R. 27

500 E



\* 17957



\* 17956

\* 17955



\* 17954



1345 N large exp greenstone.

1425 N Small " "

1465 N greenstone large  $\perp$  wall facing north.

1475 N  $\frac{1}{2}$  foot.

1585 small  $\perp$  facing north greenstone

1625 small knot  $\perp$  on south side "

1700 very small exp. greenstone

1800 N 515 E of SW cor sec 23-48-27

✓ 17861 <sub>9</sub> 100<sup>2</sup> Spec  $\frac{1}{2}$  ft for small exp

Run east to 2000

Could not find cross line

Run east

585 E greenstone knot

1100 E small ledge greenstone

1225 E slope into valley

1500 E turned south

207 S found our E & W line

Began to pace for cross line

1500 E NW cor 23-48-27  
15 S  $\perp$  small ledge greenstone look

✓ 17962 Spec 17962

75 S Small exp. of greenstone

110 S top of hill

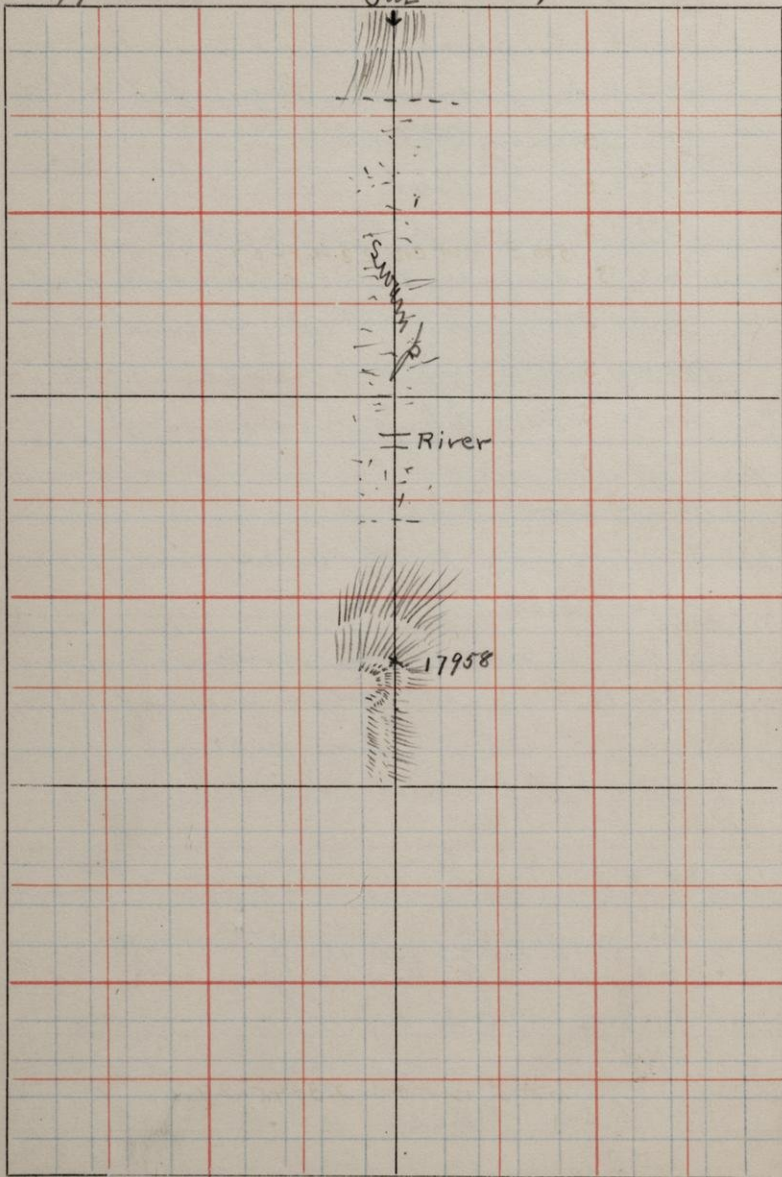
125 S small ledge of greenstone

145 S greenstone

Sw 1/4 23

T. 48

R. 27



1705 Small quartz below ledge

2155 Small sp. quartz.

2955 Small " "

3005 large " "

3505 " " "

3905 small " "

✓17963 4005 <sup>1500 E mo cor 23-48-27</sup> quartz spec 17963

4255 " ledge

4505 " " large

4755 " " same.

4955 " " large

County thus far covered with  
approx. (from 1705)

A gradual slope to swamp begins.

5305 Small quartz ledge

5605 large " "

5805 top of bluff

6305 small quartz ledge

6805 ledges west and east of

7005 small sp. quartz

725 large nest of approx 10  
paces east of

7555 small sp. quartz

7805

✓17964 8155 <sup>1500 E mo cor 23-48-27</sup> quartz spec 17964

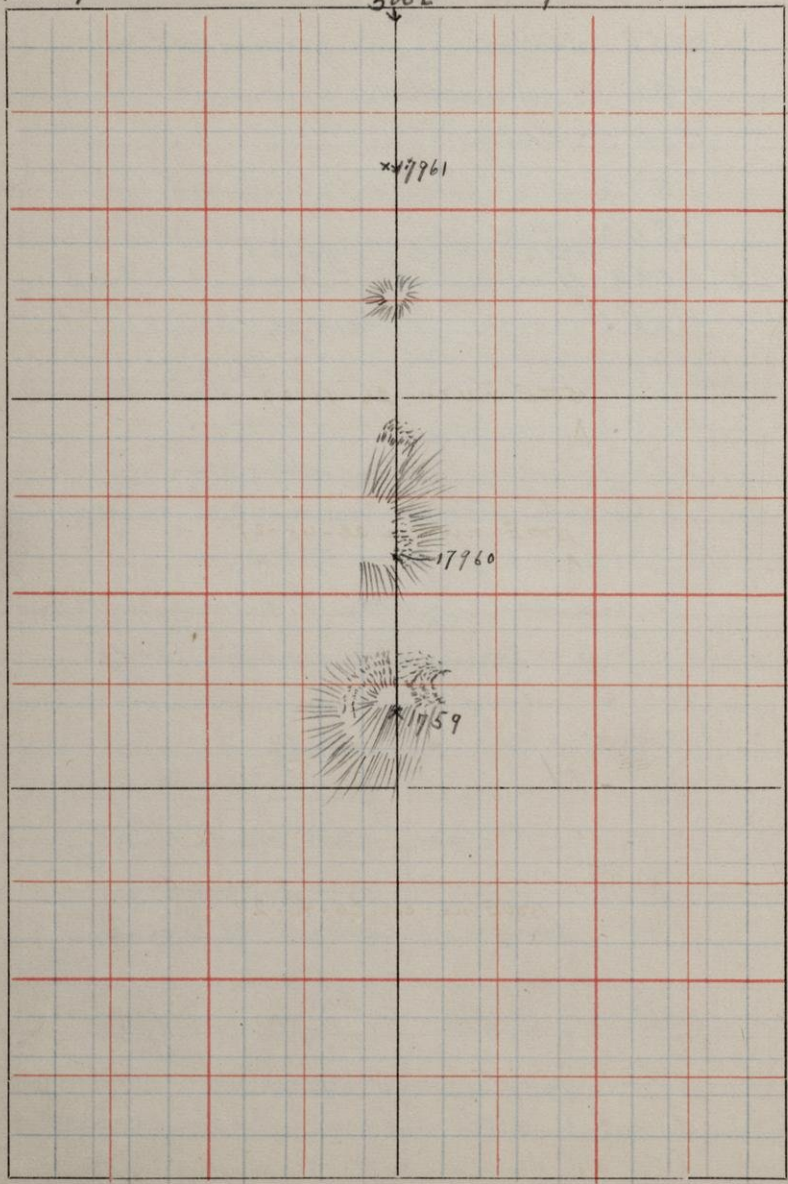
8905 small sp. quartz

9005 to swamp.

NW 1/4 23 T. 48

R. 27

500 E



940 out of Swamp  
 1055 to top of hill  
 1375 S Swamp  
 1500 S river  
 1750 End of Swamp  
 1975 S struck section line.

South into Sec 26

Generally level country to  
<sup>1500 E NW cor 26-48-27</sup>  
 450 S large top of quartzite

17965 Spec 17965

more gradual slope  
<sup>1500 E NW cor 26-48-27</sup>  
 700 S top of 30 ft bluff facing  
 north - quartzitic agglomerate

17966 Fork Spec 17966

7855 of quartzite agglomerate  
 8155

8600 + wall facing south - quartzite  
 1050 S large flat knot of agglomerate  
 Swamp basin

<sup>1500 E NW cor 26-48-27</sup>  
 13000 S end of Swamp and wall

17967 of quartzite Spec 17967

1465 S small quartzite ledge

far low passing over level

and timbered country since 1300 S

1510 S small ledge quartzite

1655 S "ledge"

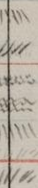
1/4  
NE 23

T. 48

R. 27

1500 E

17962



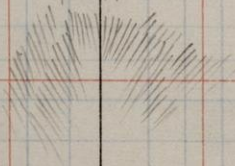
17963



17964



SE 1/4 23



RIVER

- 17968 1695 S<sub>1</sub> look Spec 17968 for wall  
 of greenstone facing west.  
 1725 S layer 4 ft greenstone appeared  
 Wall same east 50 faces.  
 1896 S end of this wall  
 1735 S swamp begins  
 1945 S<sub>1</sub> swamp ends  
 1500 E NW cor 26-48-27
- 17969 Spec 17969 taken at 2000  
 for small ledge of greenstone  
 Did not see section line.

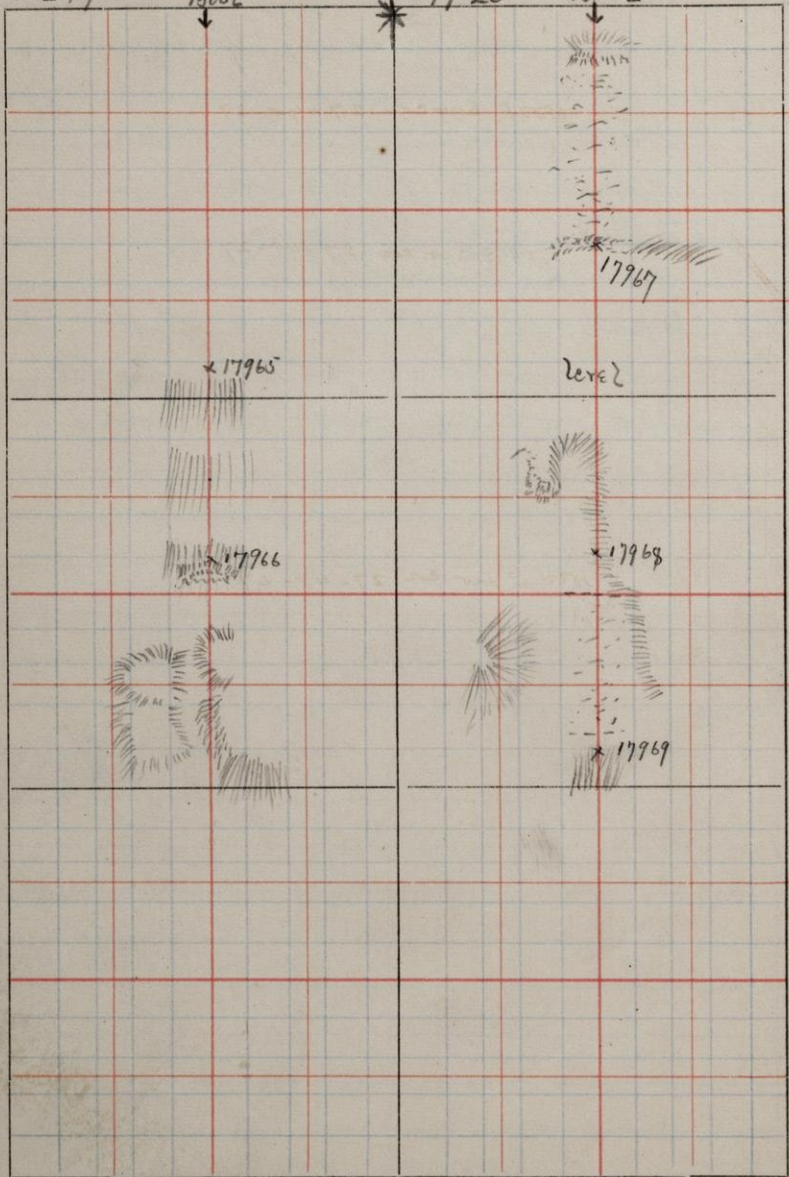


NE 1/4 26

T. 48  
1500 E

SE 1/4 26

R. 27  
1500 E



x 17965

level

x 17966

x 17968

x 17969

Aug 25 91

- Began at 6 25 N <sup>1500 E</sup> Sec 27 48 27  
 where the Luther-chopped woods  
 17970 640 N <sup>1500 E SW cor 27-48-27</sup> took Spec 17970 from top  
 of small hill - greenish.  
 6 65 N Foot of hill  
 ✓ 17971 10 15 N <sup>1500 E SW cor 27-48-27</sup> top of bluff of greenish  
 agglomerate Took Spec 17971  
 1100 N ledge of greenish along on  
 north side of same hill as Spec  
 17970  
 1140 N large exp of greenish agglomerate  
 on north side of same hill  
 ↓ 17972 1220 N <sup>1500 E SW cor 27-48-27</sup> Took Spec 17972 top of hill  
 Solid ledge of Peridotite  
 Precipitous wall on all but east  
 side. This side has quite a  
 steep slope covered with vegetation.  
 The hill is a marked feature  
 of the general landscape  
 on account of the very dark  
 color of the rocks forming its  
 walls.  
 1490 N Creek  
 1580 N out of meadow swamp  
 1600 N mouth of horsehoe  
 1600 N 1470 E of SW cor Sec 27 48 27

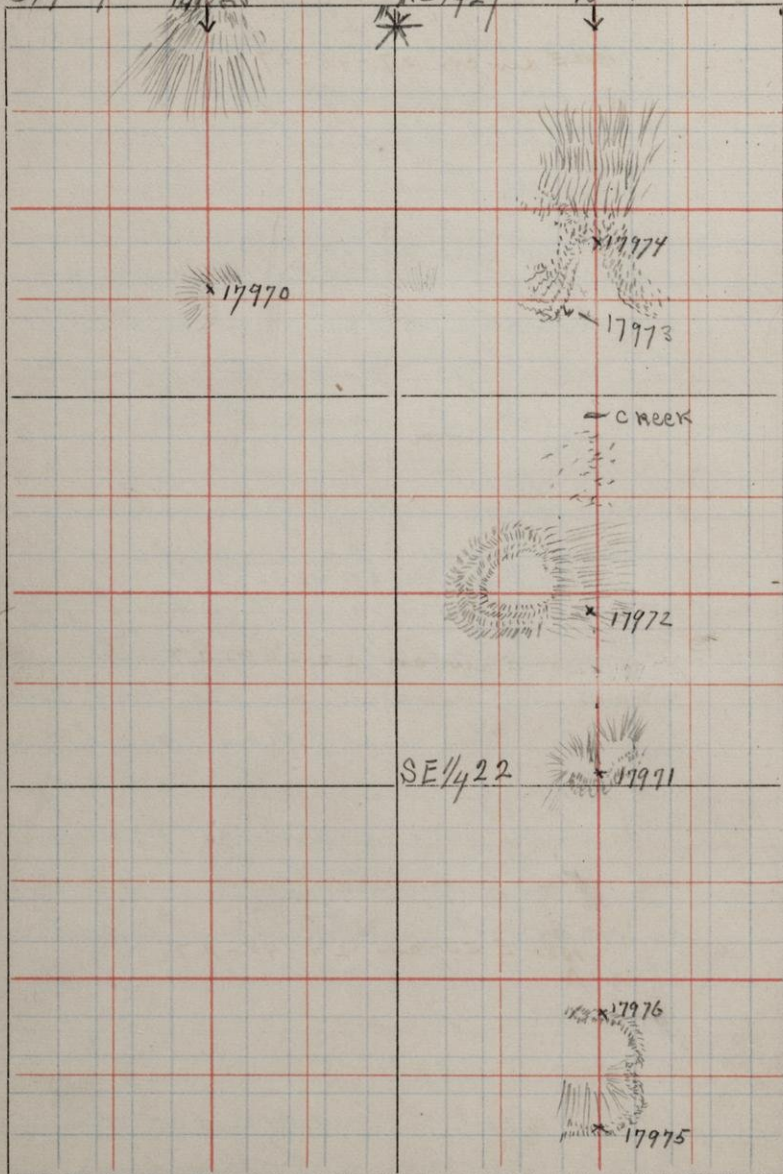
SE 1/4 27

T. 48

NE 1/4 27

R. 27

1500E



1500E

✓ 17973 took Spec 87973 - gneissic

house gneiss ledge

1500 E SW cor 27-48-27

✓ 17974 1700 took Spec 17974 of ray  
dark gneiss. This is north end  
of house sh.

1790 N similar rock to 17974

Should call it a fipped g

gneissic magma

1820 N another 4p of same rock

1900 N foot of hill 4p same

Similar to 17974.

20 50 N found section line. This  
morning we started according to  
Oley's line.

✓ 17975

1500 E SW cor 22-48-27

65 N west Sec 22 Took Spec 17975

gneissic  
wall and base of hill

110 N large flat 4p of agglomerate

gneiss as shown by weathered  
surface

195 N gneissic ledge

1500 E SW cor 22-48-27

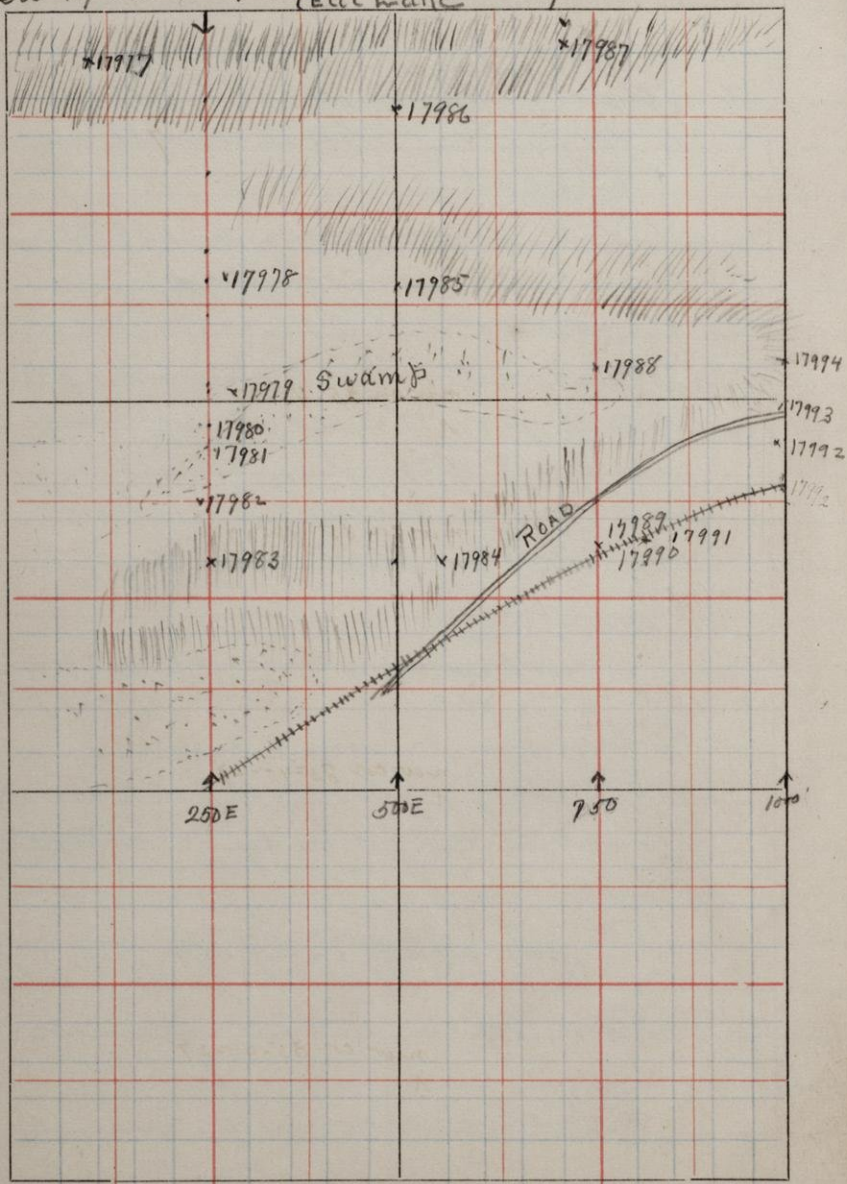
220 N to bluff at the foot of which

✓ 17976

Took Spec 17976 gneissic.

Stopped in account of Rain.

sw 1/4 35 T. 48 TEALHAKE R. 27



Started from west 1/4 part 35-48-27  
at the west end of Trial Lake

100 E. 1075 S. Spec 17977 from  
west part. Chlorite Schist  
17977  
Trial pits frequent to 200 ft  
but only chlorite Schist found.  
No rock seen in profile

1140 S top of Lake Trial Bank

1340 S 275 E <sup>nw cor 35-48-27</sup> large ledge of slate

17978 Spec 17978. Strike 5° N of E

Dip 62° S  
nw cor 35-48-27

17979 1480 S 290 E <sup>both</sup> Spec 17979

slate. Strike 5° N of W Dip about  
85° S. Small exposure running  
west to line

1520 S 240 E ledge of slate.

1535 S 256 E <sup>nw cor 35-48-27</sup> where roll slopes  
to south. find ledge from which

17980 look Spec 17980 Slate

17981 Spec 17981 quartzite

1565 S to 1615 S Swamp  
nw cor 35-48-27

1620 S 240 E <sup>nw cor 35-48-27</sup> large ledge of

17982 Slate look Spec 17982

Strike 12° S of W

Dip 65° S

16465 4' from y same ledge as  
Spec 82. Found strike and  
dip the same

1675 S ledge of similar character

1700 S <sup>250 E NW cor. 35-48-27</sup> Small ledge quartzite

17983 Took Spec 17983

17405 top of descent

large exposure of quartzite  
similar to 88 230 E of line

1825 S Swamp

1900 S end of Swamp

1990 S RR track

2000 S RR track

Run west to corner. We found  
a piece of RR iron stuck in a  
corner of fence about 75 paces  
East of Eugeni House of June  
It is the true corner (since name)  
and we were 20 paces short

Squard east 250 paces

155 N middle of Road

170 N RR track

200 N 55 E <sup>Sw on 35-48-27</sup> 150 paces East and west

4' from y quartzite-slate Took

17984 Spec 17984 - Strike about E-W

Dip 60° S.

335 N Small ledge of dark  
quartzite similar to Spec 83

375 N 525 E Dark quartzite similar  
to Spec 83

500 N Swamp

590 N out of Swamp

600 N 520 E Small exp. of quartzite

650 N 490 E <sup>Sw cor 35-48-27</sup> little bit of quartzite

17985 Took Spec 17985

670 N small exp. of quartzite  
Slope here

845 N foot of slope

880 N <sup>500 E Sw cor 35-48-27</sup> very small exp. slate

17986 Took Spec 17986

900 N Slope quite steep.

920 N ledge of slate

1000 N Teal Lake

Sun gone behind clouds and  
we used needle for rest of work.

Squand east 250 faces  
200 east and 10305 large ledge  
of slate. Dipping to south  
Strike about same as other ledges

17987 Took Spec 17987

at 750 E Teal Lake about  
m line



The ledge taken at 200 E continues  
to this point and beyond  
1075 S to top of slope

1420 S to main <sup>750 E m w cor 35-48-27</sup>

1470 S <sup>N</sup> Small ledge of slate. Took  
Spec 17788. Strike according to  
needle east and north

1490 S Swamp

1515 S Swamp ends. (Biggs & rain)

1610 S middle of road

1675 S <sup>750 E m w cor 35-48-27</sup> real road cut through

quartzite and quartzose slate

17987 Spec 17988 slaty quartzite  
Strike 40 W of N

Dip 65° E

17990 Spec 17990 contact piece

1675 S 815 E large ledge of slate

17991 Took Spec 17991

1745 S RR track

Dropped work here but run  
out line and squared off to  
14 feet. Found that we were 50  
feet too far east. Due to  
variation of needle

Run south for 14 feet  
<sup>470 N 985 E large</sup>  
390 N <sup>N</sup> side of tite ledge of quartzite

17992 Took Spec 17992

1000 E Sw cor 35-48-27

490 N <sup>at</sup> Road, Lini crosses

17993 ledge of rock Spec 17993

530 N foot of slope also

ledge similar to Spec 93

17994 560 N <sup>1000 E Sw cor 35-48-27</sup> top of slope rock Spec 17994

940 N to lake

SE 1/4 11

T. 47

R. 27

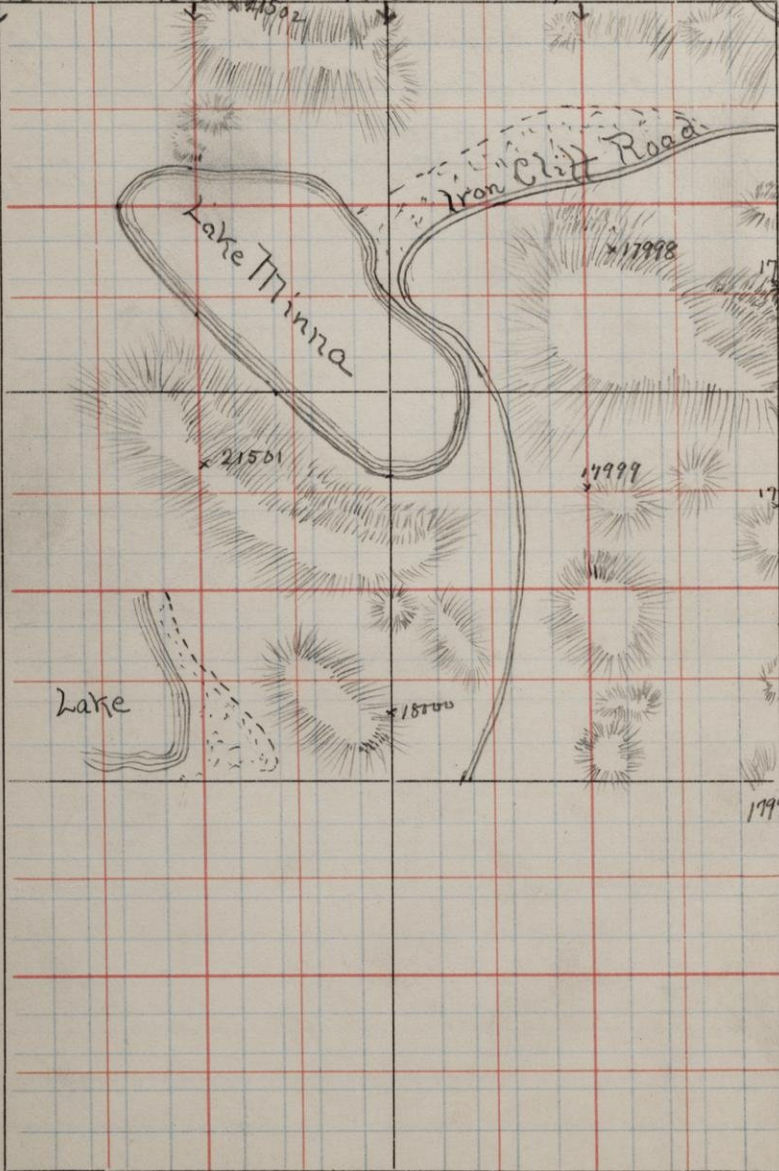
Gun  
Power  
Lake

1000 E

1200 E

1500 E

1750 E



Started from SE cor 11-47-27

30 paces south down hill to ledge  
of greenstone

30 s 15 w of SE cor sec 11-47-27

17995 Fork Spec 17995 Greenstone  
45 x foot of hill

145 x and also 20 w small

9 paces of greenstone ledge

255 x length of slope

250 x 30 w + 4 ft of greenstone

facing west and north 6 ft high

325 m top of hill

360 x ledge on north side of hill

3 ft high 15 paces long

17996 Fork Spec 17996 Greenstone

396 x foot of hill

Ridge begins here and runs  
west

452 feet long slope

470 N <sup>ledge</sup> ledge of greenstone on south  
side of hill

510 N 10 ft bluff facing N

20 paces long - greenstone

600 N edge of bluff greenstone

17997 630 N Fork Spec 17997 from N.

Bluff. Bluff 60 ft high

Ledge exposed in great part  
 here and also at foot of bluff  
 720 top of little ridge  
 770 N bluff of greenstone on north  
 side of ridge 20 ft high  
 780 N foot of bluff  
 815 N swamp  
 825 N end of swamp  
 850 N Iron Cliff Road  
 985 N Gun Powder Lake  
 Turned west at 975 N

73 W we estimated G.P. Lake to  
 be 125 N. This would track west  
 end of lake.

135 S swamp

200 S out of swamp

220 S road (Iron Cliff Road)

250 S foot of hill

285 S ledge of fine rock and  
 west 75 faces - greenstone

17998 2855 210 W high Spec 17998 "

3855 small ledge greenstone

450 S ~~210 W~~ road and Lake

Turned also large 4 p. of  
 greenstone

505 S small ledge of greenstone

530 S small ledge greenstn

625 S ledge greenstn 15' face

17999 long look spec 17999

650 S small top of greenstone

695 S little streamlet

700 S slopes

740 S top of bluff 20 ft high - greenstn

790 small ledge greenstn

910 S 8 ft + 25 ft long facing  
north - greenstone

935 S large exposure greenstn  
facing north and west

Came to line 980 S Run east to  
corner and found ourselves  
10' faces to far west

490 W to Iron-Cliff Road

500 W run north

10 N Swamp

40 N Swamp ends

50 N greenstn ledge + facing north  
10 ft high and top of hill

140 N low country

180 N out of wet low land

1500 E Sw cor 11-47-27  
195 N ledge of greenstn look spec

18000 18000

275 N top of hill

275 N 510 W Small sp. quartzite  
400 N to Lake Minnie

390 N Small ledge quartzite  
Turned west

660 W Low of circular hill  
quite steep.

670 W Small ground sp. quartzite

750 W 410 N Small ledge of  
quartzite Spec 21501

21501

Run north to lake Minnie

470 N Small quartzite ledge

620 N Lake Minnie

750 S

Run south from 400 N + 750 W

1610 S Small ground of presumably quartzite  
Country sloping rapidly to little  
lake

1750 S the lake 75 feet west of  
Two more things marked &  
Section line

We went back to Iron Cliff Road  
and picked up our 500 N line

Lake Minnie 610 N + 500 W

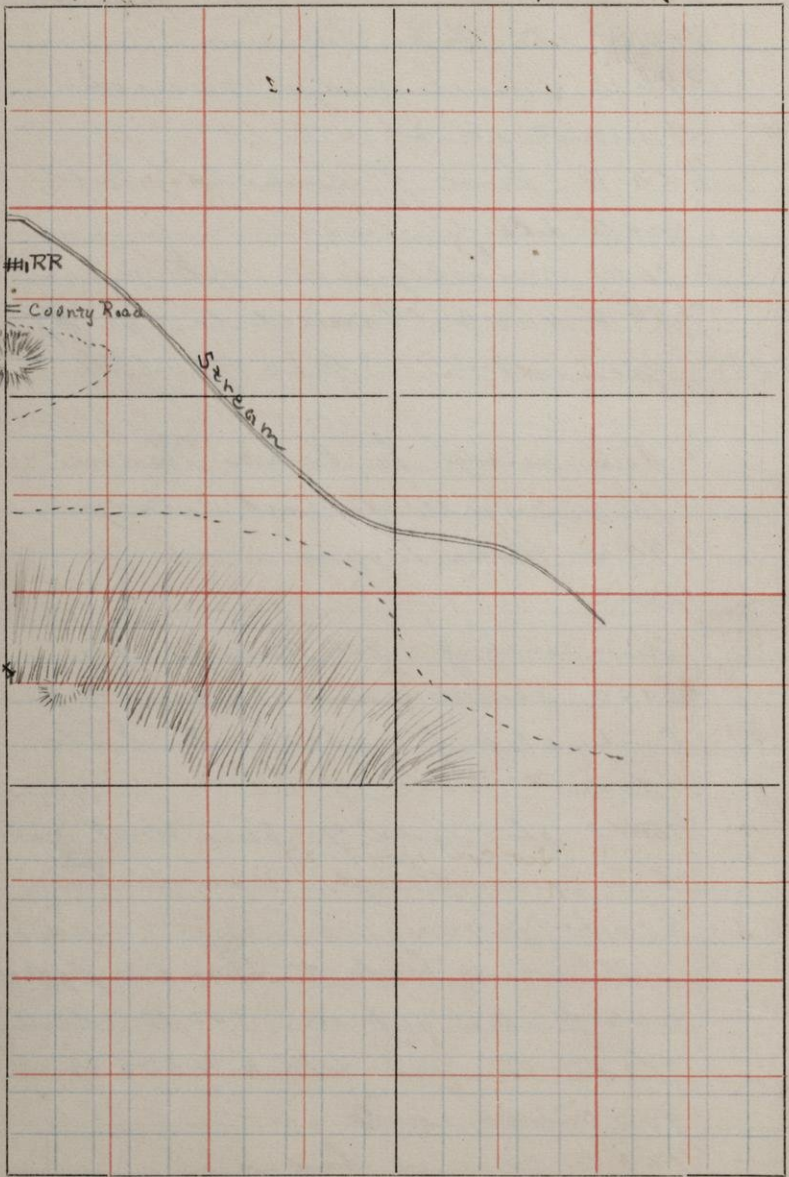
705 N left road

725 N Swamp begins

785 N Swamp ends

NE 1/4 11 T. 47

R. 27





865 N 550 west ground up. of  
gneiss

At 1000 N run west

21502 700 W took Spec 21502 from  
large ground exposure of gneiss  
in heart of hill

Hill very steep to north

730 W turned ~~South~~

1035 S small of gneiss

1080 S 730 W very small of gneiss

1100 S large gneiss ledge

Bluff 20 ft high

1140 S bare ridge gneiss

1175 S another ridge which runs  
into the just mentioned

1185 Lake Umbagog

Went to Center of Sec 11-47-27

~~1200~~ run north on 1/4 line

1150 N <sup>Sw cor 11-47-27</sup> top of hill also small

21503

of gneiss took Spec 21503

Location 1150 N 1020 E Sw cor Sec 11-47

1050 E top of hill <sup>rather</sup> on highest point <sup>11-27</sup>

1200 foot of hill

1335 Swamp bog

1460 .. ends

1535 beginning of slope

1575 N to hill Boulder hill  
 1607 N Center of Road  
 1670 N RR

Squared off <sup>to the east</sup> from 1685 N ~~east~~  
 1180 E stream

1280 E turned south

475 South meadow begins

475 South stream 8 ft across

670 S meadow ends swamp begins

670 S out of swamp very gradual  
 rise in land

885 S

925 S ledge 12 ft high. This ledge  
 runs east and west and  
 is exposed all along the <sup>with</sup> side  
 of hill. In some places forming  
 precipitous walls

Run east to 1600 E

1500 E 1610 small ledge greenish

1610 E small " "

1700 N Swamp begins

1235 N Swamp ends meadow begins

1325 N to stream

Squared off east 115 faces  
 and turned south

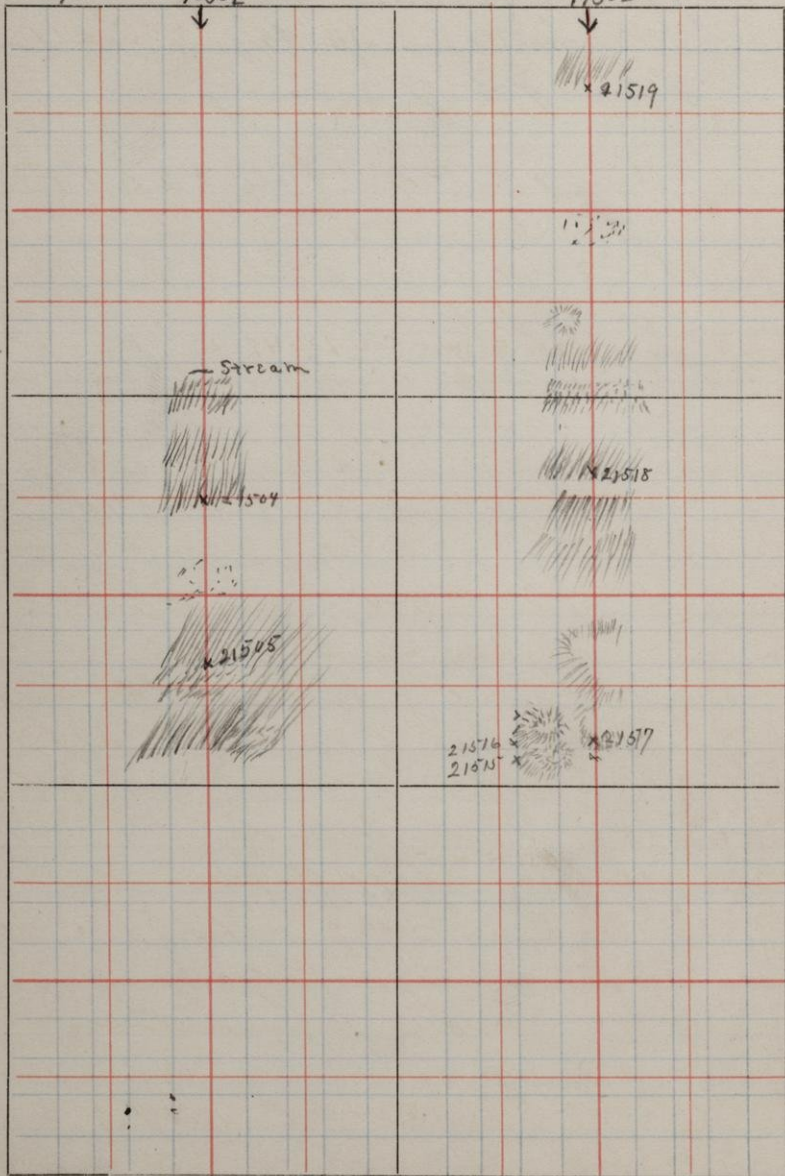
7905 to stream meadow ends  
and swamp begins  
9505 out of swamp.

SE 1/4 12

T. 47  
1250 E

R. 27

1750 E



Worked in St 114 of Sec 12  
47-27

Run south on line 1250 E

1480 S stream 4 ft across

1485 S slight slope to a level

1540 S foot of second slope

21504 1625 S <sup>1250 E</sup> ledge. Spec 21504. Banded  
grey rock.

1640 S top of hill which has  
been climbing since 1540

1685 S begin to descend. Country  
so completely covered with  
tangled underbrush and  
second growth that top  
if present was not seen.

1710 S foot of hill. Samp begins

1850 S swamp ends

1830 S <sup>1250 E</sup> a bluff of greenstone

21505 facing south & east. Spec 21505

1890 S a large ledge of greenstone

1940 S knot of greenstone

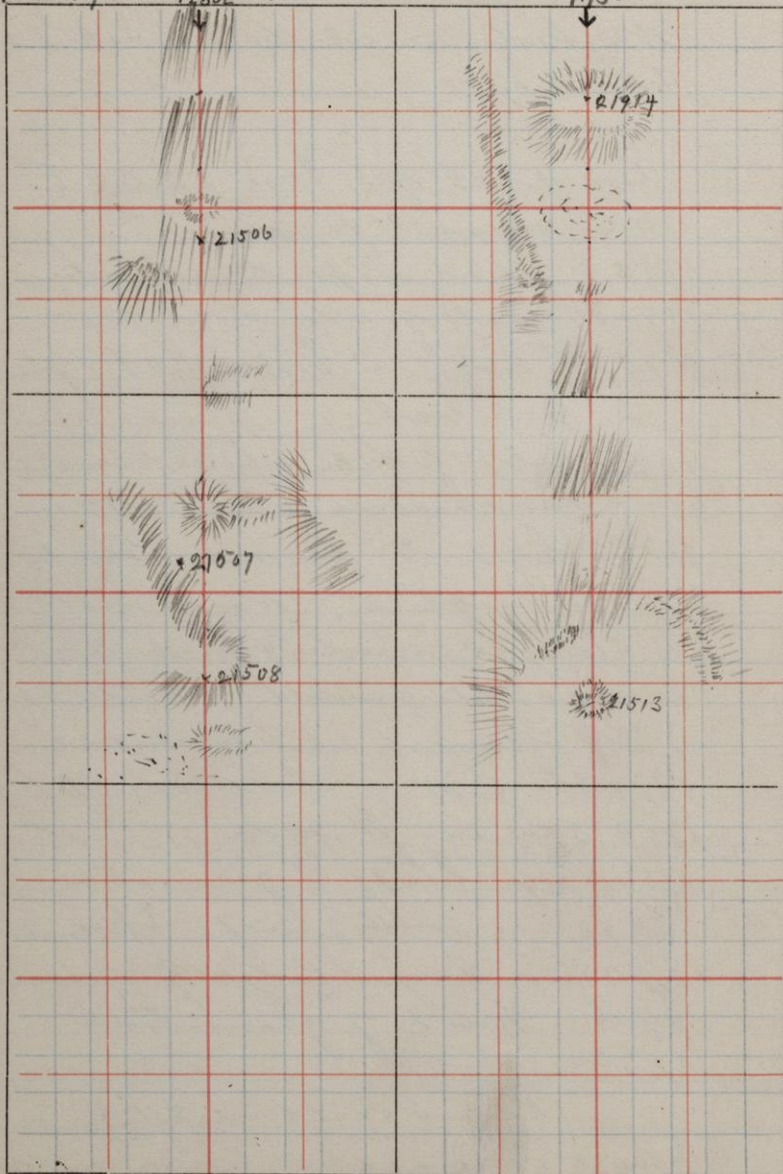
Run south int 13

2208 Small ground exp. of  
greenstone.

NE 1/4 13

T. 47

R. 27



240 S 1210 E very large greenstone ledge

255 small greenstone ledge

300 S <sup>1250 E</sup> ledge <sup>map cor 13-47-27</sup> " look

21506 Spec 21506

340 S small ground qp. greenstone

35 S same ledge 10 ft high  
± 50 paces long facing South

400 S 1200 E large 40 ft bluff  
100 paces long - greenstone

450 S small qp. greenstone

460 S small ledge " 1260 E

485 S 1210 E base of big bluff of  
greenstone

540 S 1270 E small greenstone ledge

540 S greenstone ledge

Big hill seems to have flattened  
at base

540 S 1200 E bluff of greenstone  
30 ft high

625 S swamp bog

675 S swamp ridge - little knot of  
greenstone

710 S swamp ridge and ridge  
with greenstone ledge <sup>map cor 13-47-27</sup>

750 S 1220 E <sup>map cor 13-47-27</sup> qp of gray wacke

21507 Spec 21507

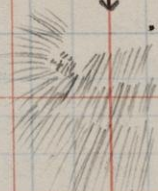
SE 1/4 13

T. 47

R. 27

1750 E.

123DE  
↓ 21509

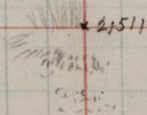


21512



21510

Swamp



21511



800 S Small ledge junct.  
1250 E NW cor 13-47-27

890 S  $\Delta$  50 V 15 ft small junct.

21508 took Spec 21508

910 Small ledge junct.  
NW cor 13-47-27

1015 S 1255 E  $\Delta$  small ledge

21509 gray washer Spec 21509

950 S swamp begins

1295 S " ends

1355 S Small juncture ledge

21510 1560 S  $\Delta$  1250 E NW cor 13-47-27  
Small exposure of junct.  
took Spec 21510

1580 S 1310 E continuation of same  
ledge. Country badly overgrown  
with brush

1700 S Swamp begins

1900 S " ends

Country very level at 2000 S

River S into NE  $\frac{1}{4}$  24

800 S Swamp

395 S out of swamp

475 S Swamp

515 " ends and R.R. tracks

Found Mr. Luther & Alley.

Alley took us to St. cor S $\frac{1}{2}$  13

We then ran west with him

NE 1/4 24 T. 47

1250E

R. 27



level  
county

Swamp



###

250 steps and leaning linn  
 turned north on 1750 E line

55 N Swamp begins

70 N " "

ends  
 Sw cor 13-47-27

125 N 1710 E <sup>^</sup> small quartzite ledge

21511

Took Spec 21511

250 N level country

350 N Swamp

450 N rat of Swamp

450 N (170 N) 1580 E high part of

quartzite exposure on south side

Sw cor 13-47-27

560 N 1705 E <sup>^</sup> Kurt of quartzite

21512

Took Spec 21512

560 N 1790 E large exposure of

quartzite facing south

665 N 1675 E north side of (560 N 1705 E

Kurt of quartzite)

900 N near top of hill a long ridge

900 N 1700 E bluff quartzite

930 N top of ridge

1100 N <sup>1750 E</sup> Sw cor 13-47-27

large ledge of quartzite

21513

100 x 25 ft. On top of big hill.

Took Spec 21513

1130 N good exp. of quartzite

1190 N exp. of quartzite all

around us

1190 N 1730 E bluff 25 ft high  
20 faces long but coming  
small as a small bluff.

1235 N precipice 12 ft deep  
1800 E precipice 5 ft high

1315 N 1700 E large greenstone ledge  
1850 E " " "

1365 N small " "

1400 N " " "

1445 N " " "

Hill sweeps away to east  
and north.

1495 N small ground 4 ft. greenstone

1535 N Bluff 20 ft long 10 ft high

1560 N 1740 E large greenstone ledge

1625 N most northern exposure of  
this immense hill

1770 N out of swamp

1750 E <sup>swamp</sup> on 12-47-27  
1895 N A short ridge of greenstone  
30 ft high steep on north-

121514

side Took spec 21514

1970 m foot north side of ridge  
frequent exposures

Continued north into 12

35 m 1690 E A knot composed  
<sup>See geo 12-47-27</sup>  
of gneiss and greenstone

Contact a gradation not to be seen

21515

look Spec 21515 <sup>Schist</sup> graywacke  
Schist

21516

60 N 1690 E <sup>1950 E low cor 12-47-27</sup> knot of greenstone  
60 N out of swamp

21517

70 N <sup>1950 E low cor 12-47-27</sup> top of small knot of  
graywacke. Took Spec 21517  
Surface of ledge presents a rebarren  
yellow color. The rock has a  
bedding. Dip 28 N  
Strike 30 N of N

95 N small greenstone ridge  
110 N 1740 E small rounded knot  
of greenstone

145 N low Ridge of greenstone  
240 N foot of hill ~~to the~~ first  
slope of which began 75 N  
Large greenstone ledge.

335 N 1730 E small sp. on side  
of hill

345 N 175 E small sp. greenstone  
380 N hill kno + slope

21518

410 N <sup>1750 E low cor 12-47-27</sup> near foot of hill. Ledge  
of banded rock Spec 21518  
(Later in Season I believe this  
was called actinolite schist)

425 N swamp

490 " ends

545 N ledge of greenstone also top  
of hill

560 N ledge " "

600 N 1735 E small knot of greenstone

665 N greenstone

700 N swamp

770 N " ends

775 N top of ridge shaped ledge

150 paces long East and West

900 N <sup>1750E 200 or 12-47-27</sup> very small ledge greenstone

Spec 21519

21519

930 N greenstone ledge precipice 10 ft high

1000 N found a new stake about

20 paces north and 10 east.

This found to better to be the

East 1/4 part of Sec 12-47-27



"after the ball in 1893"  
June 1893



