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Michigan land and Iron County's land, Northern Michigan: [specimens] 17514-17516. No. 91 1889

Merriam, W. N.
[s.l.]: [s.n.], 1889

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U. S. GEOLOGICAL SURVEY
FIELD SECTION BOOK

No. 91

1889.

Michigan Land & Iron Co's. Land.
Northern Michigan.

H. H. Merriam.

17514-17516

SURVEY OF THE PRE-CAMBRIAN ROCKS OF THE N. W. STATES.

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 figure attached, showing the amount and inclination of the dip. Denote slaty or other very plainly bedded rocks by lines running in the direction of the strike, with figures and a dip arrow attached as before. In all cases where there is the least doubt about the true bedding directions, 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 as 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.

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.

3. The ruling of the left hand page is also arranged so that a smaller scale can be used. Each one of the black lines may represent a section line and the red lines quarter sections and "forties." The scale of the maps may thus be reduced, if desirable, to two inches to the mile (the ordinary town plat scale.)

4. Collect a specimen from each separate ledge of rock, or wherever there is a change of rock on any one ledge. In case of trips made on foot or in canoes, for long distances, neighboring ledges, unquestionably of one kind of rock, need not be sampled, the position and extent of the ledge being marked on the map, with a note that it is of a rock identical with specimen so-and-so. Under the same conditions small sized samples, 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 § 3, chapter IV, p. 44, Regulations of the U. S. Geological Survey. In all cases collect chips for slicing. All specimens are to have numbers painted on them, in white on a black background, in the field.

5. 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 of observations, sketches, cross sections, etc., etc.

17514-17516

91

Sec 31

T. 46

R. 31

Mixed hardwood and pine.

Road

Sec 5
Road

T. 45

R. 31

9002

Harold Wood

2 2 2 3 3 4 5 5 6 6 7 7 8 8 9 9 10 10 11 11

Harold Wood

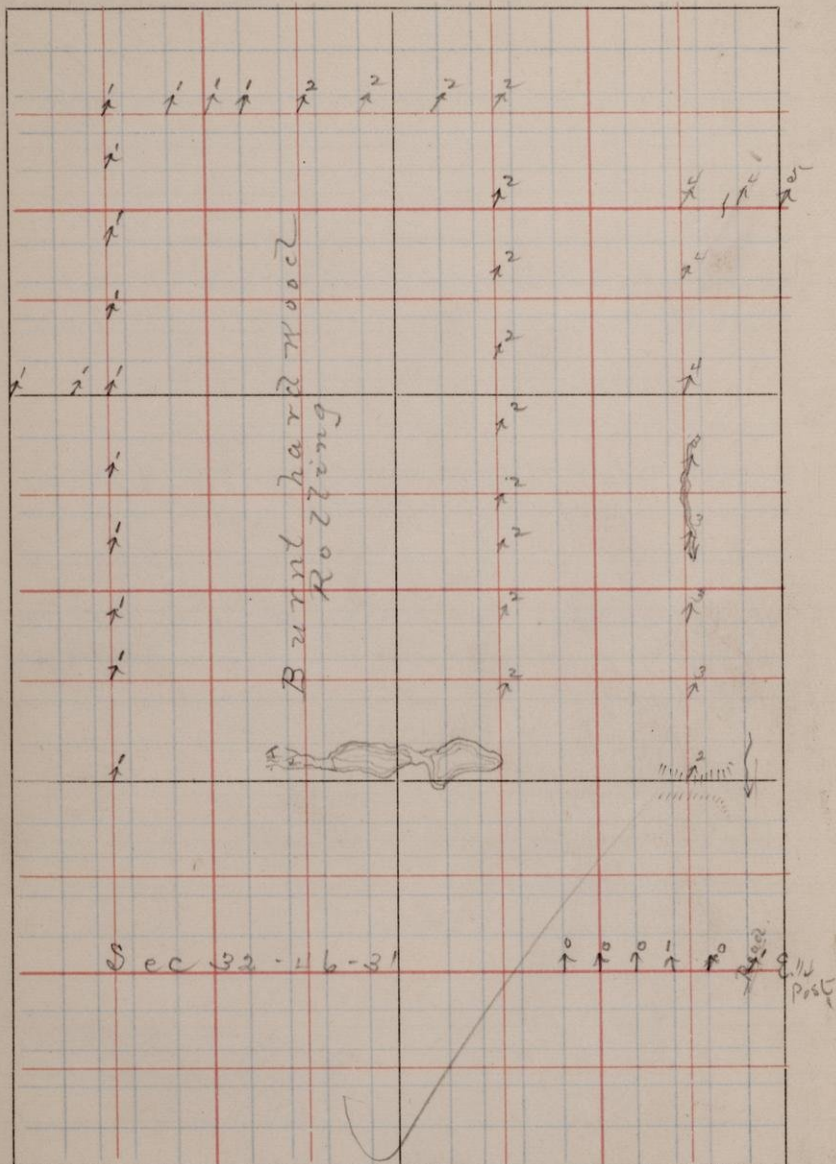
[illegible]

7⁶ 8⁴ 15¹⁵ 1 1 1 1 1 1

Sec. 33

T. 46

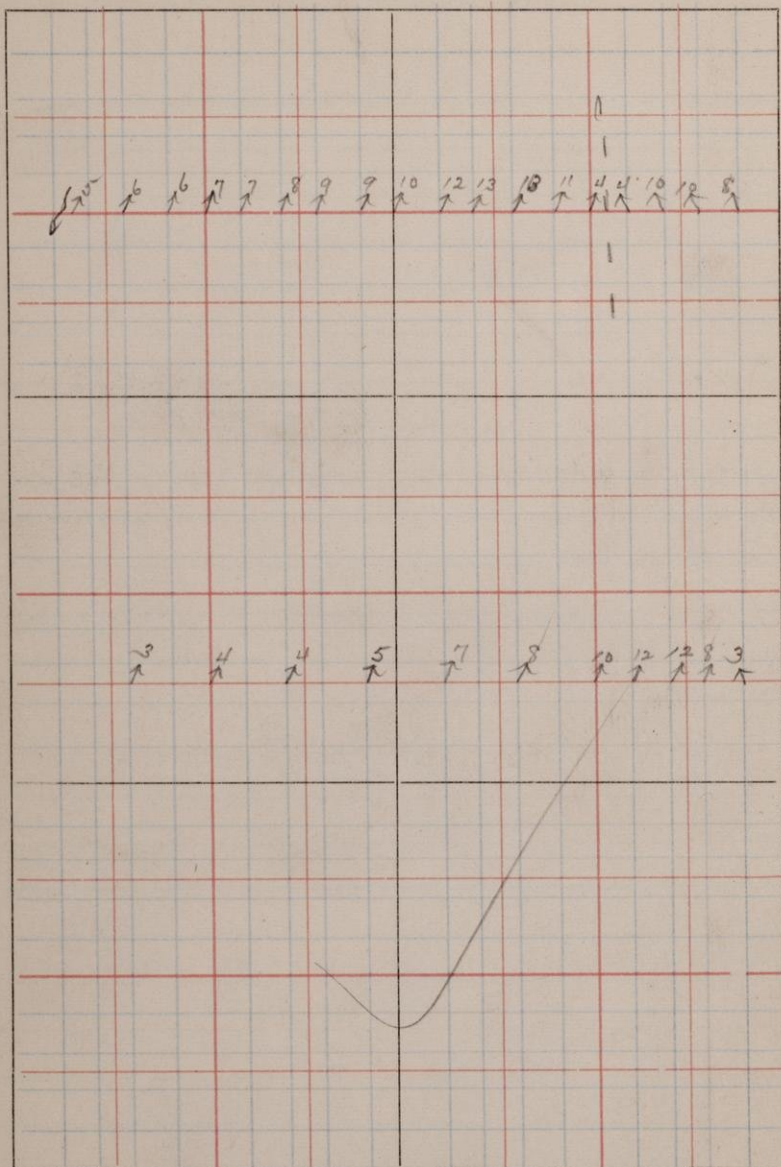
R. 31



Sec. 34

T. 46

R. 31



Sec. 30

T. 46

R. 31

[illegible]

3

76

Surface level covered
with good hardwood
off hills

2

2
A

Broken draft hills
covered with dense
secondary growth

2

2

2

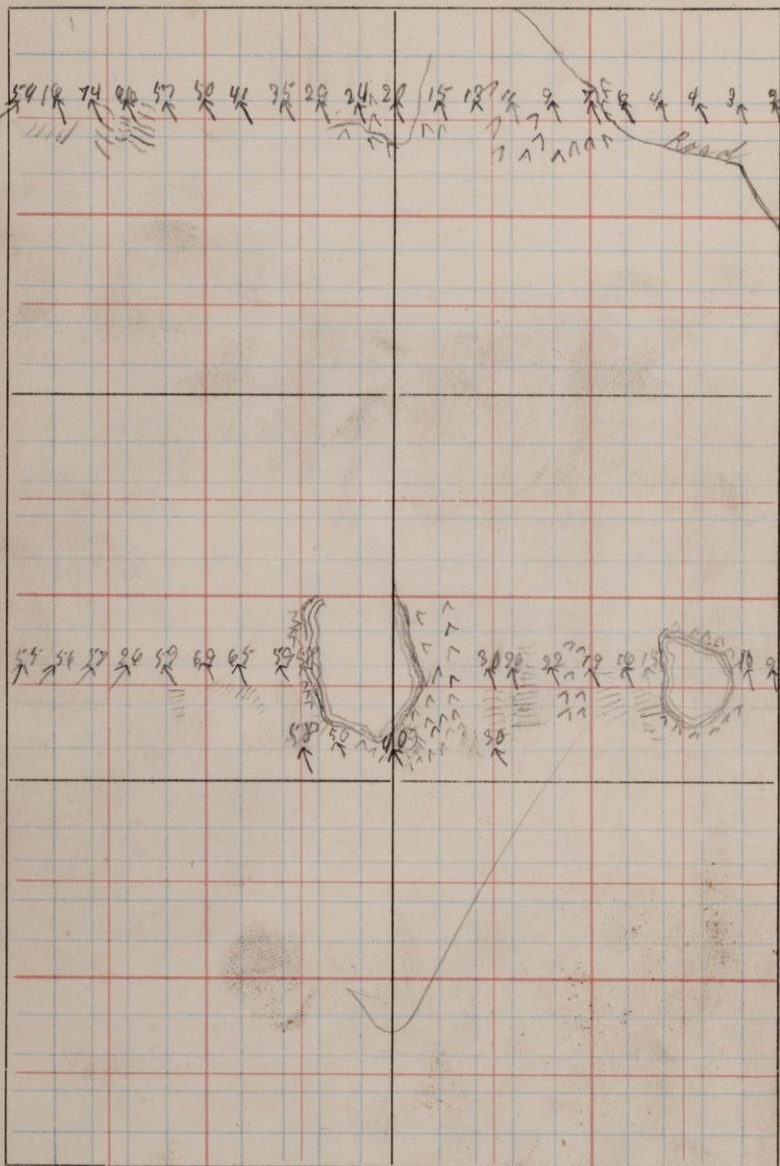
43

$9 \nearrow$
 $10 \nearrow$
 $9 \nearrow$
 $6 \nearrow$
 $11 \nearrow$
 $1 \nearrow$
 $1 \nearrow$
 $1 \nearrow$
 $2 \nearrow$
 $1 \nearrow$
 $2 \nearrow$
 $2 \nearrow$
 $2 \nearrow$
 $2 \nearrow$

Sec 29

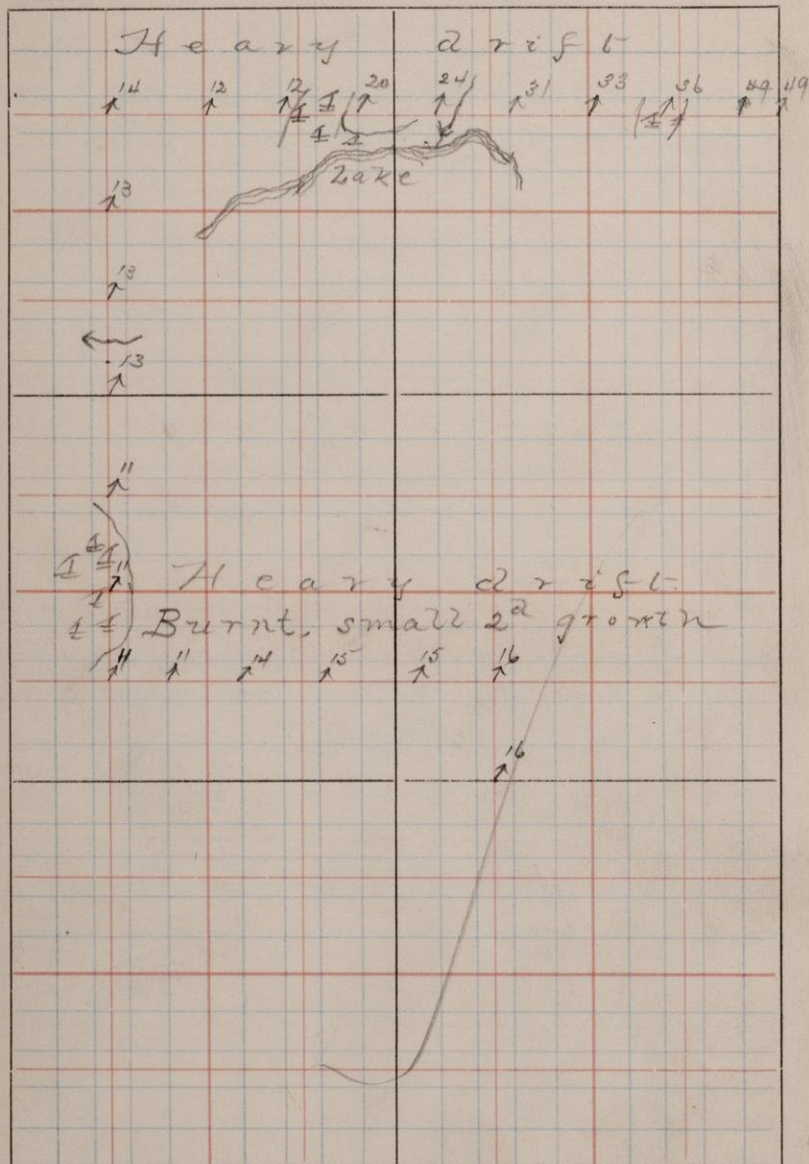
T. 46

R. 30



Sec. 31 T. 46

R. 30



Sec 32

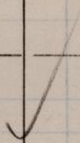
T. 46

R. 30

15' H e a r y 2 r i f t 25' 20'
 45' 72 60 67 57 44 36 38 25' 20'
 ↓
 Pull to bottom

Old wind fall. 2^d growth Poplar.

The entire section seems to
 be covered by a dense 2^d growth
 of Poplar and hick.



Sec 33

T. 46

R. 30

Heavy drift
 20 17 15 13 10
 1/2

15 14 11
 1 1 1

13 11
 1 1

17 12
 1 1

17 13
 1 1

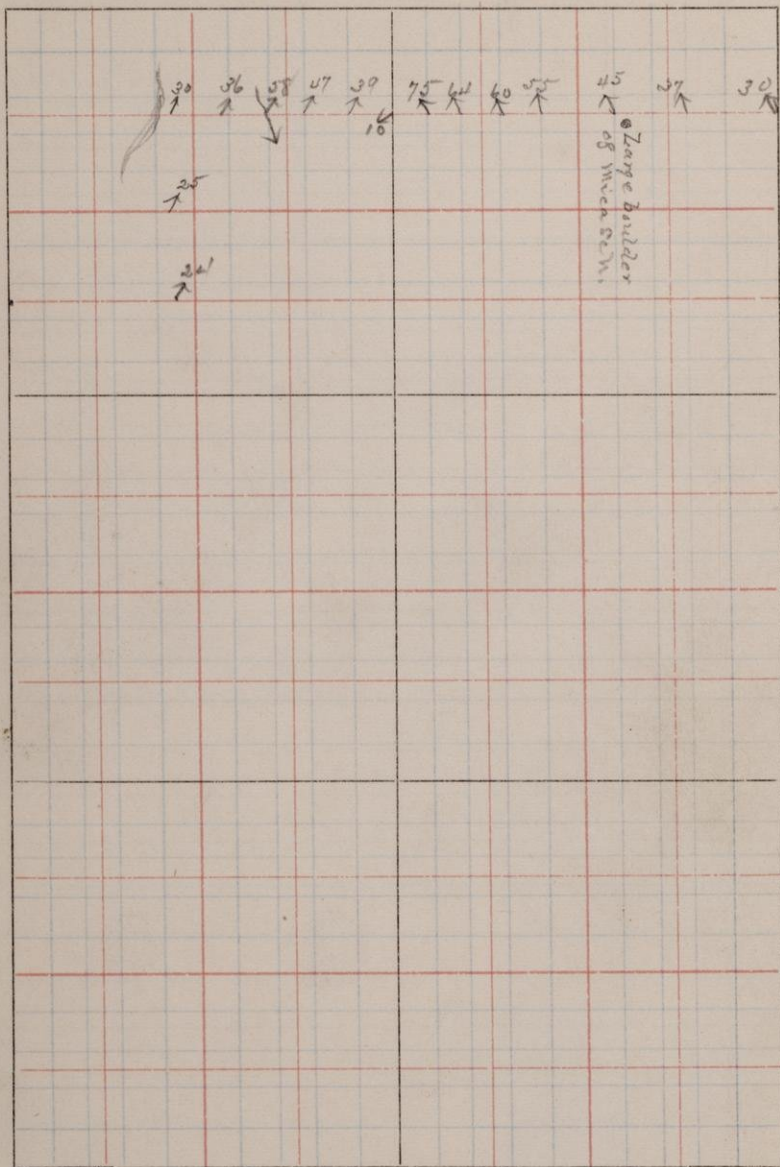
28 21 16 15 13
 1 1 1 1 1
 Very heavy drift hills

26 21
 1 1

Sec. 5

T. 45

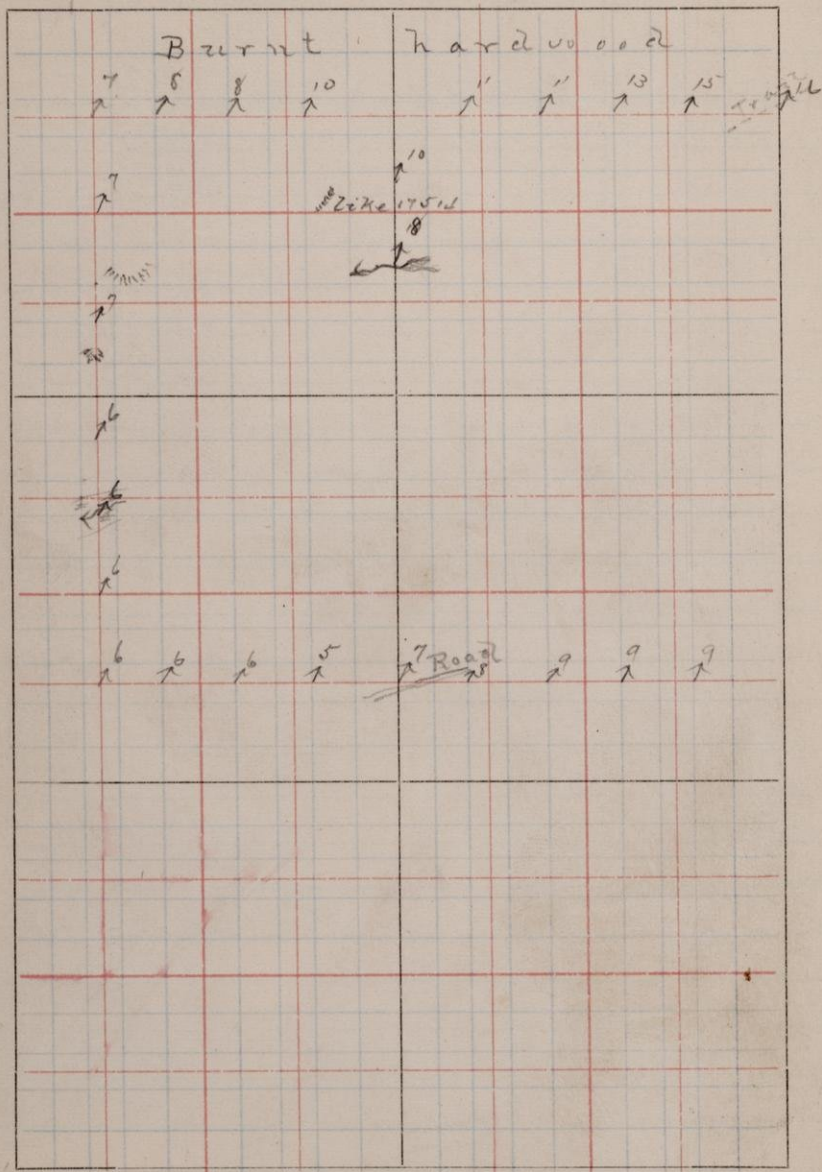
R. 90



Sec. 7

T. 45

R. 30



11
17512 1340 N. 1050 W. S. E. 7-45-30

Just below dam on outlet to Trout
Lake. A small exposure of micaceous
quartzite in bed of creek
Strike S. 10 W. Dip 30° E (approx.)

17515 1650 N. 1300 N. S. E. 7-45-30

A large outcrop of this rock in
top of knob. It seems to be
striking about south

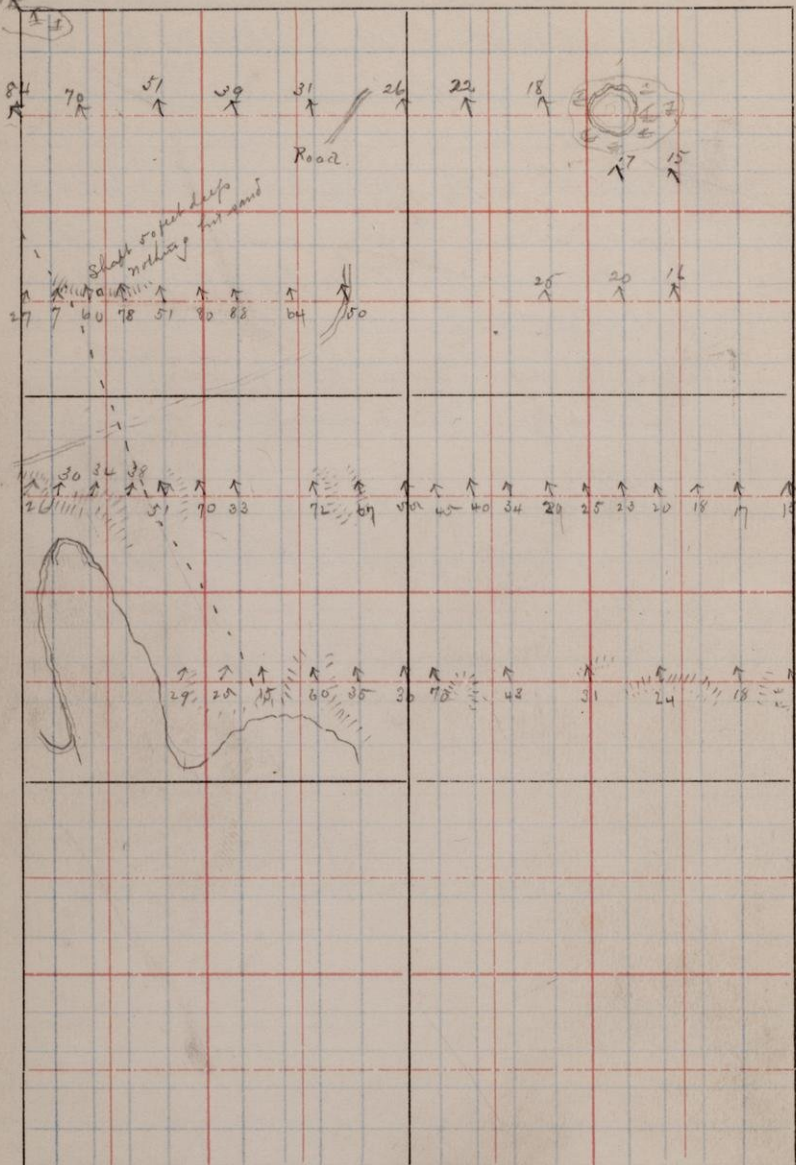
17516 1700 N. 1100 N. S. E. 7-45-30

From what appears to be a continuation
of 17515

Sec 9

T. 45

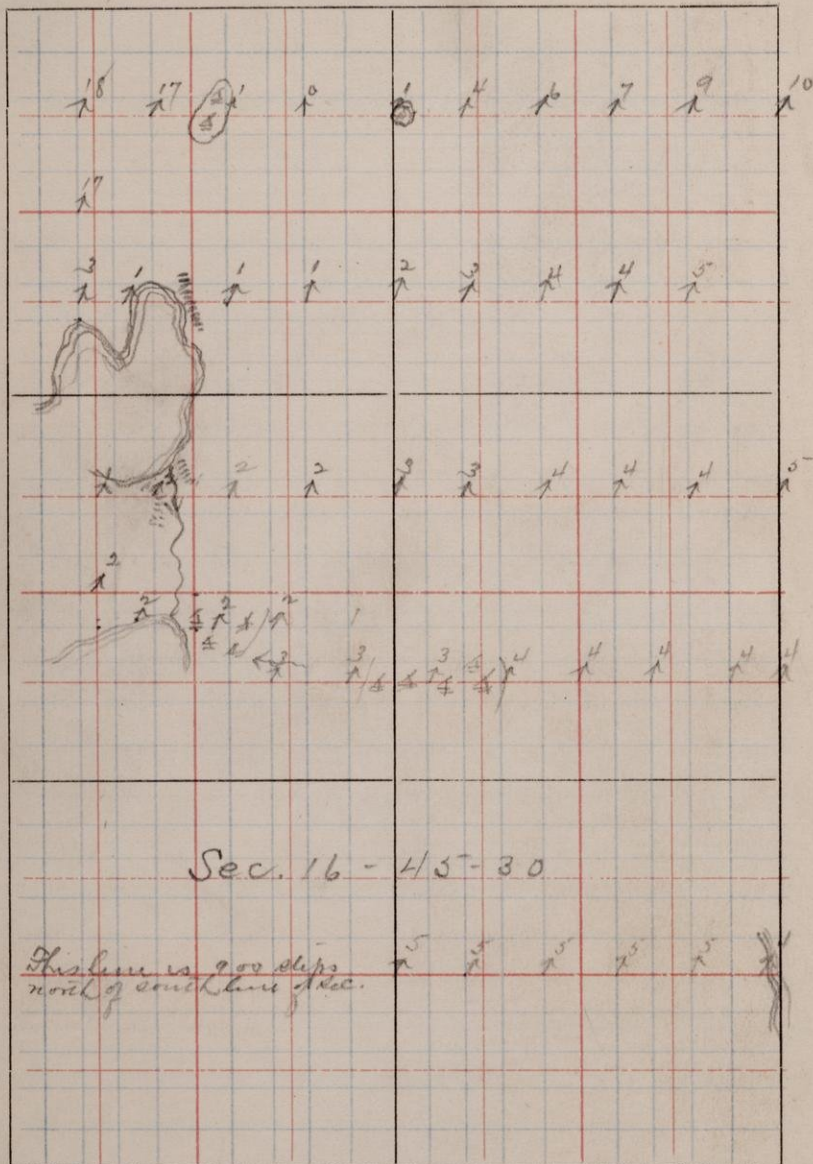
R. 30



Sec 17

T. 45

R. 30

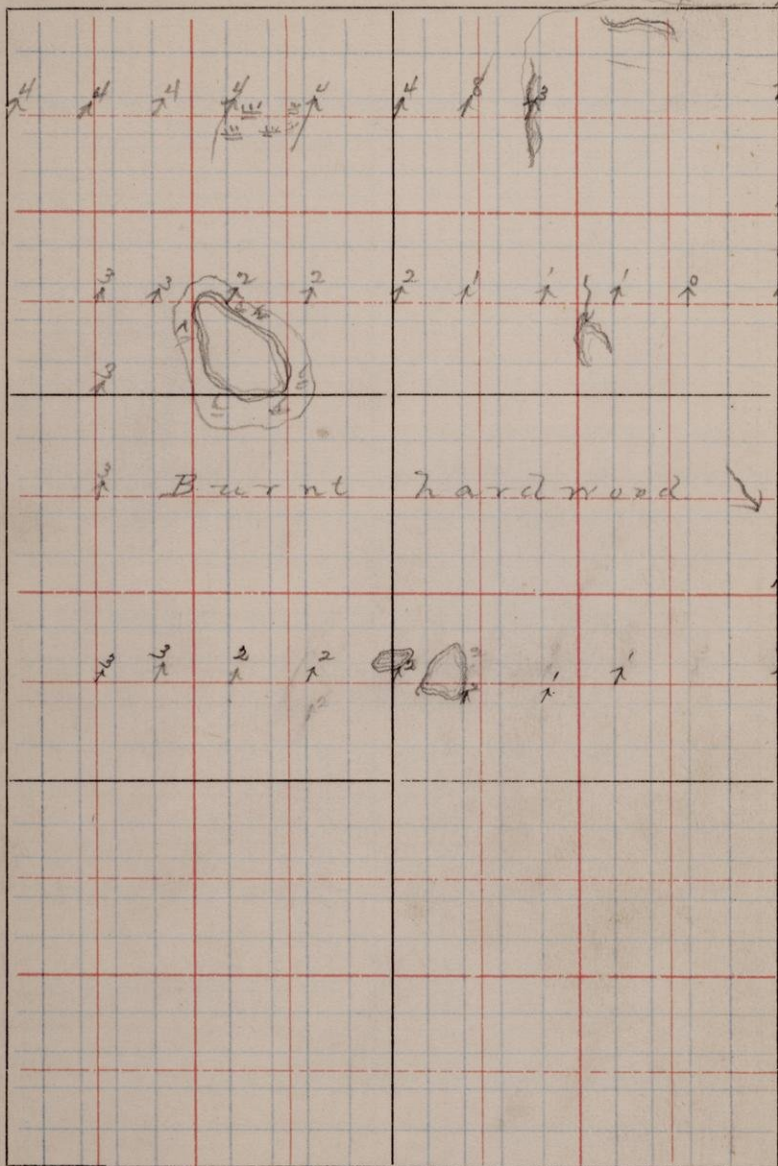


700
125

Sec 21

T. 45

R. 30



Aug. 25.	1 days board at Repukli	2.00
" 25	Ryffan Rep. to Michi & return	1.60
26	3/4 days board at Rep.	1.00

