



LIBRARIES

UNIVERSITY OF WISCONSIN-MADISON

Vicinity of Greenwood, Michigan Marquette district: [specimens] 17631-17741. No. 113 1891

Merriam, W. N.

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

<https://digital.library.wisc.edu/1711.dl/7547BFOHWGEUT8R>

<http://rightsstatements.org/vocab/InC/1.0/>

For information on re-use see:

<http://digital.library.wisc.edu/1711.dl/Copyright>

The libraries provide public access to a wide range of material, including online exhibits, digitized collections, archival finding aids, our catalog, online articles, and a growing range of materials in many media.

When possible, we provide rights information in catalog records, finding aids, and other metadata that accompanies collections or items. However, it is always the user's obligation to evaluate copyright and rights issues in light of their own use.

U. S. GEOLOGICAL SURVEY
FIELD SECTION BOOK

Book 113.

*Vicinity of Greenwood, Mich.
Marquette District.*

W. H. Merriam, 1891.

17631-17741.

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 of observations, sketches, cross sections, etc.

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

not plotted

17641-17643, 17655-17659, 17667-70

#113

1

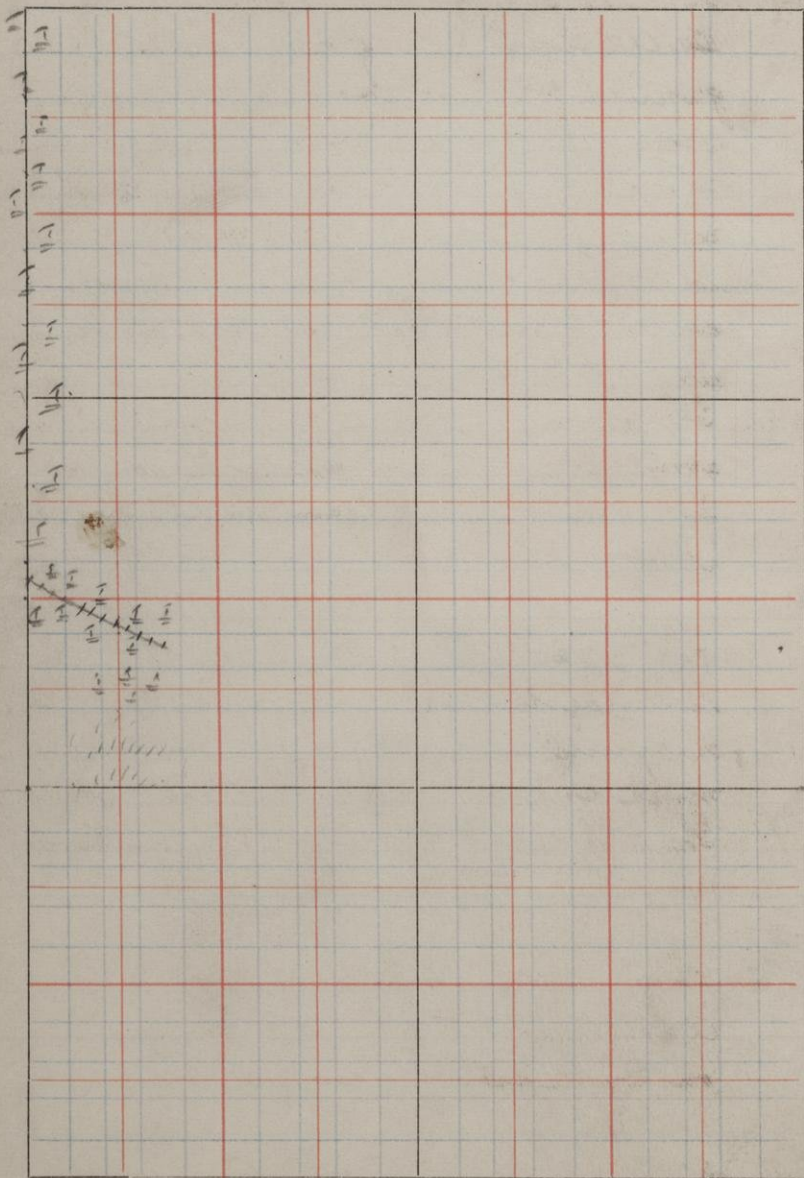
2

July

Sec. 8.

N. 21. 14
T. 47

R. 28 N. Mich.



✓17631 800 N. 1875 W. S. E. 8-47-28

On the north edge of a ridge this fine grained black rock shows for a few paces when a greenstone comes in in contact with it and marks up the mass of the ridge. The finer rock is much contorted and the strike could be made out only in a general way to be about E. & W.

✓17632 The greenstone from above ridge is about 100 steps across when the same fine schist shows again on the south slope of the ridge

✓17633 700 N. 1725 W. S. E. 8-47-28

Similar to 17631. The rocks here are not quite so contorted but still too much so to get dip and strike accurately. The strike is S. of E. Dip N. E. at a low angle.

✓17634 520 N. 1850 W. S. E. 8-47-28

A low ledge of Act. mag schist on south side of swamp

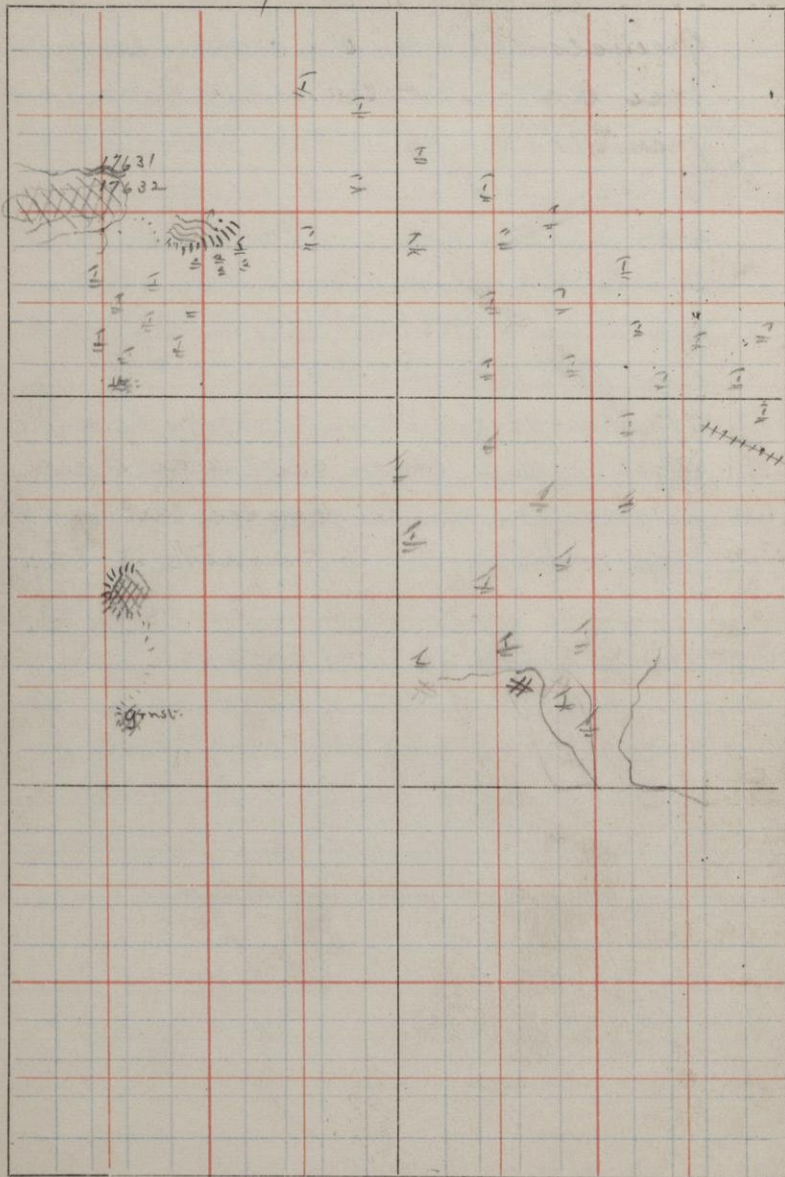
250 N. 1875 W. S. E. 8-47-28

Large greenstone ledge (see notes of 1888)

S. 21. 1/4 8

T. 47

R. 28



✓17635 1800 N. 1875 W. S. E. 17-47-28
Greenstone from the abrupt south face of a large e. & w. ridge of coarse greenstone

✓17636 1325 N. 1600 W. S. E. 17-47-28
A large ledge of coarse greenstone similar to 17635

✓17637 700 N. 1875 W. S. E. 17-47-28
Saratoga Mica schist (?) on east side of river
Biotite The rock is highly banded but much
Schist contorted just south of this
in an east & west ridge is an
eruptive rock very like the tuff
east of Champick

✓17638 Is taken from the east end of this
Biotitic Hornblende ridge 1600 W. 550 N. S. E. 17-47-28
Schist

✓17639 350 N. 1600 W. S. E. 17-47-28
Hornblende like 17638
Gneiss

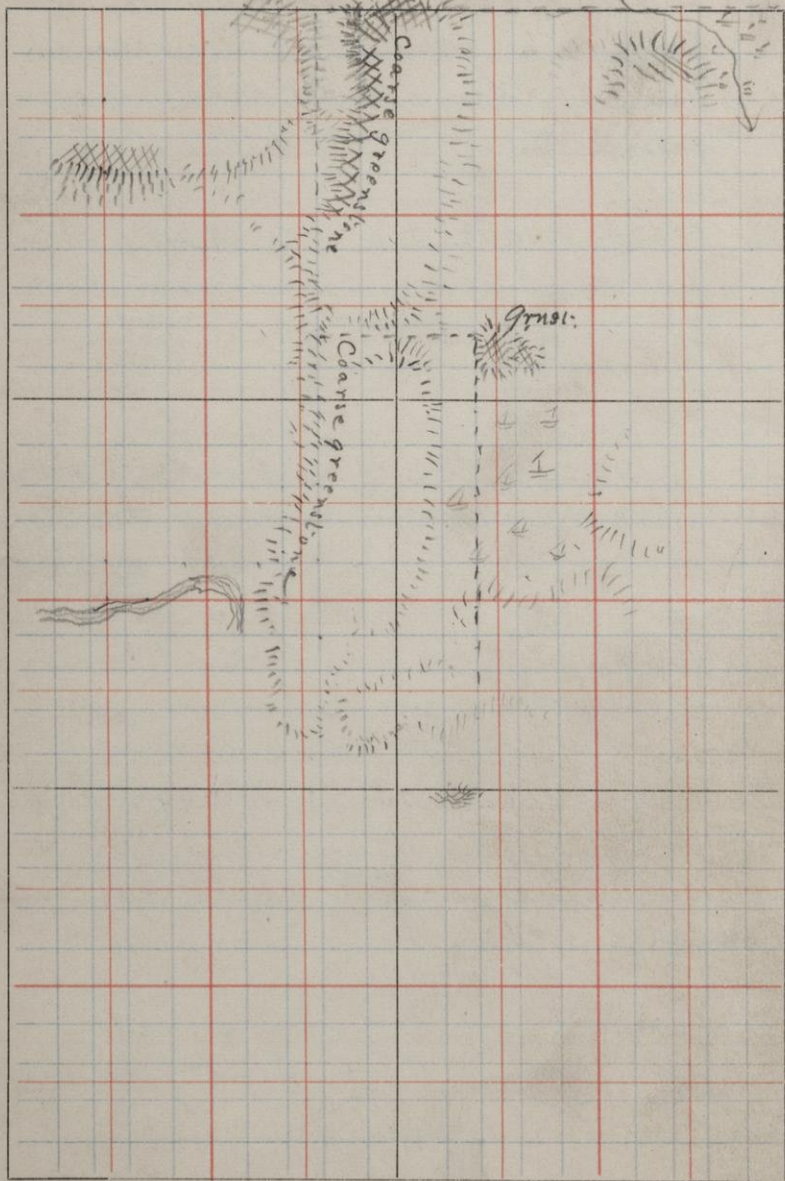
✓17640 200 N. 1800 W. S. E. 17-47-28
Hornblende Greenstone Tuff highly banded
Biotite and contorted
Schist

HO in large crystals) Tuff. sect. for HO + Bt.

77. W. 1/4 17

T. 47

R. 28

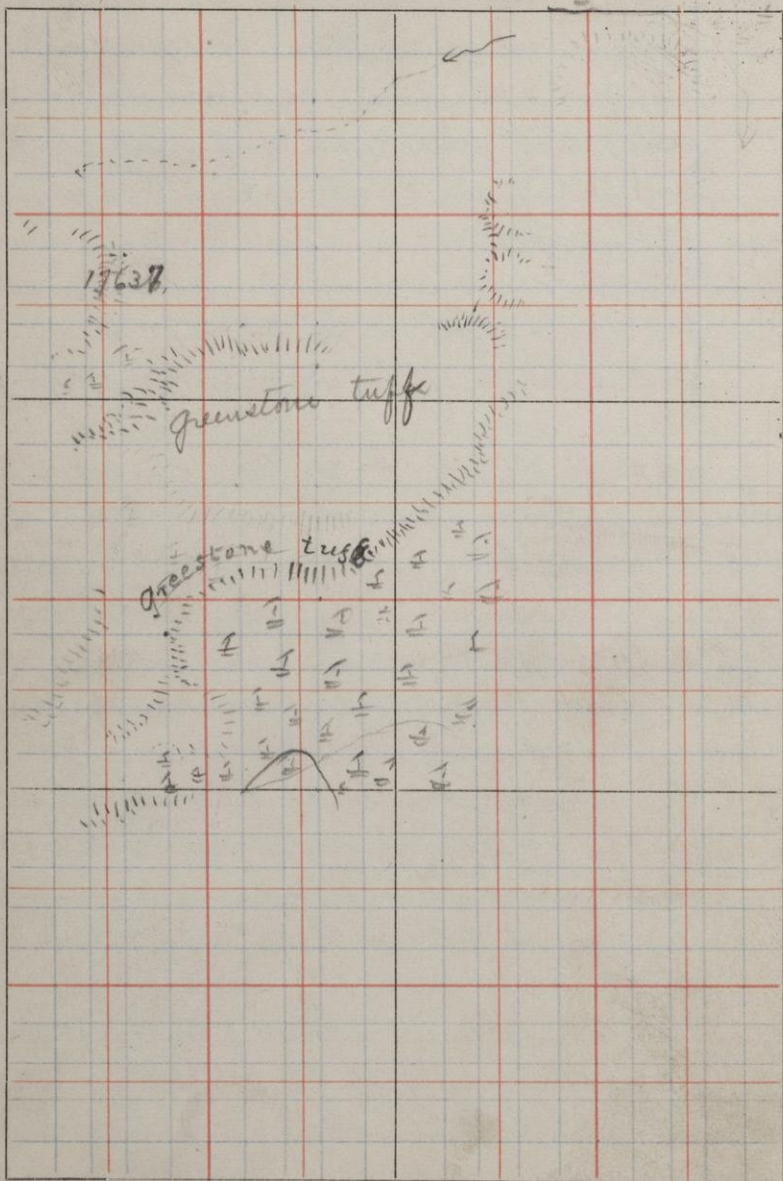


- ✓17641 2000 N. 1800 W. S. E. 20-47-28
 A finer phase of these Greenstone
 Tuffs. Surface weathers in an
 irregular manner and very rough
 instead of in bands as in some parts
 of the tuffs
- ✓17642 1350 N. 1800 W. S. E. 20-47-28
 A low ledge of the same greenstone Tuff
- ✓17643 1700 N. 850 N. S. E. 20-47-28
 Biotite Granite On the south side of the Es. Rivier
 a quite large exposure of grey granite
- ✓17644 220 N. 900 N. S. E. 8-47-28
 Altered Greenstone A large knob of greenstone conglomerate
 just S.W. of small lake
 The conglomeratic character shows
 on the weathered surface, but no
 so plain on a fresh fracture. The
 fragments seem to be all of one
 kind and small. The rock
 is massive. Two of the fragments
 are shown in 17645 + 17646
 The rock I think belongs with
 this general area of greenstones
 and greenstone tuffs
- ✓17645
 ✓17645
 ✓17646

D. 76. 1/4 17

T. 47

R. 28



17647 850 N. 1950 N. S. E. 17-47-28
 A low knob of greenstone rising
 only a few feet above the low
 surrounding country

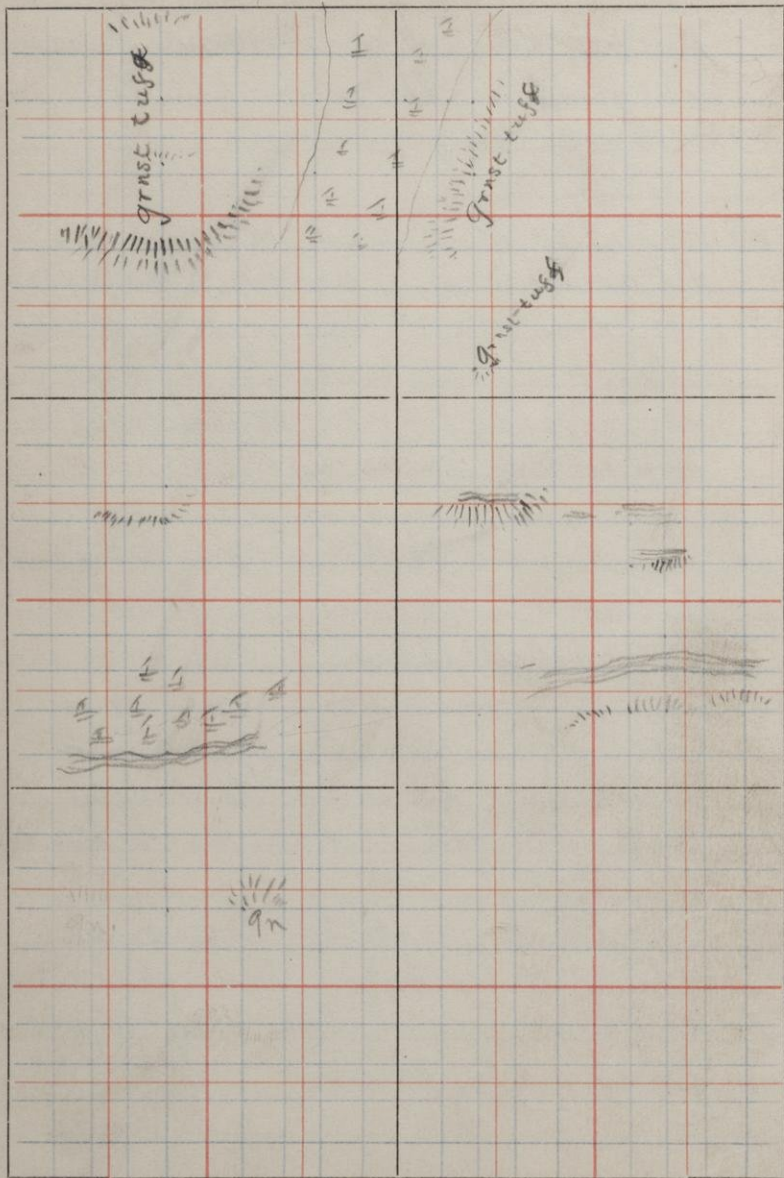
17648 00 N. 970 N. S. E. 8-47-28
 At south base of ridge of greenstone
 conglomerate. The rock is quite
 schistose and contorted. The general
 strike of the bands being N. 65 W.
 Dip nearly vertical

17649 1960 N. 1150 N. S. E. 17-47-28
 A rock very similar to 17648
 in many respects. The banding
 is here however very regular and
 well defined varying from a
 fraction of an inch to nearly a
 foot in width. Strike N. 40 W.
 Dip N. 80°

Do these rocks belong with
 the greenstones? In places
 they appear as though they might
 be a phase of them

7.7.14 20 T. 47

R. 28



- 17650 1350 N. 125 W. S. E. 8-47-28
A low ledge of coarse greenstone
- 17657 1500 N. 00 W. S. E. 8-47-28
High ledge of coarse greenstone
rising 75 or 100 feet above the
swamp to the north
- 17652 1000 N. 1400 W. S. E. 17-47-28
Very similar to 17648-49.
A schistose rock much contorted
Dip seems to be high to the south
These rocks look in places very much
like a mica schist - Do they belong
with the greenstones
- 17653 1400 N. 625 W. S. E. 17-47-28
Greenstone tuffa or conglomerate -
The rock weathers with a very rough
surface the fragments standing
out in very pronounced manner
They are vary in size from those but
a fraction of an inch in diameter
to those several inches in diameter
They are nearly all of one kind though
some of the larger ones weather to a
flesh color and seem to be porphyritic

71.5 1/4 8 T. 47

R. 28

<u>1</u>	
<u>2</u>	
<u>3</u>	
<u>4</u>	
<u>5</u>	
<u>6</u>	
<u>7</u>	
<u>8</u>	
<u>9</u>	
<u>10</u>	
<u>11</u>	
<u>12</u>	
<u>13</u>	
<u>14</u>	
<u>15</u>	
<u>16</u>	
<u>17</u>	
<u>18</u>	
<u>19</u>	
<u>20</u>	
<u>21</u>	
<u>22</u>	
<u>23</u>	
<u>24</u>	
<u>25</u>	
<u>26</u>	
<u>27</u>	
<u>28</u>	
<u>29</u>	
<u>30</u>	
<u>31</u>	
<u>32</u>	
<u>33</u>	
<u>34</u>	
<u>35</u>	
<u>36</u>	
<u>37</u>	
<u>38</u>	
<u>39</u>	
<u>40</u>	
<u>41</u>	
<u>42</u>	
<u>43</u>	
<u>44</u>	
<u>45</u>	
<u>46</u>	
<u>47</u>	
<u>48</u>	
<u>49</u>	
<u>50</u>	
<u>51</u>	
<u>52</u>	
<u>53</u>	
<u>54</u>	
<u>55</u>	
<u>56</u>	
<u>57</u>	
<u>58</u>	
<u>59</u>	
<u>60</u>	
<u>61</u>	
<u>62</u>	
<u>63</u>	
<u>64</u>	
<u>65</u>	
<u>66</u>	
<u>67</u>	
<u>68</u>	
<u>69</u>	
<u>70</u>	
<u>71</u>	
<u>72</u>	
<u>73</u>	
<u>74</u>	
<u>75</u>	
<u>76</u>	
<u>77</u>	
<u>78</u>	
<u>79</u>	
<u>80</u>	
<u>81</u>	
<u>82</u>	
<u>83</u>	
<u>84</u>	
<u>85</u>	
<u>86</u>	
<u>87</u>	
<u>88</u>	
<u>89</u>	
<u>90</u>	
<u>91</u>	
<u>92</u>	
<u>93</u>	
<u>94</u>	
<u>95</u>	
<u>96</u>	
<u>97</u>	
<u>98</u>	
<u>99</u>	
<u>100</u>	

✓17654 From one of the larger fragments

✓17655 1400 N. 1800 N. S. E. 20-47-28.

From this same greenstone luff showing in a ridge running N. E. & S. W. on the east side of swamp and rising 40 to 50 ft. above swamp.

✓17656 1400 N. 1375 N. S. E. 20-47-28

A banded rock like those to the north (17648-49-52) The banding is here contorted but has a general strike of N. 5 to 10 N. Dip about vertical

✓17657 1300 N. 1150 W. S. E. 20-47-28

✓17658 A banded fine grey rock with cherty bands up to 3 or 4 inches in width. This rock lies just north of the granite about 175 steps and nearer to it than any rock seen so far

Strike E & W. as nearly as could be determined. Dip about 30° N.

The chert is also in lens shaped masses. The rock is quite contorted

S.E. 1/4 8

T. 47

R. 28

11/11/11
11/11/11
11/11/11

Good
Low

11 11 11 11
11 11 11 11
11 11 11 11
11 11 11 11
11 11 11 11
11 11 11 11

5050

11/11/11
11/11/11
11/11/11

✓17657 1150 N. 1350 N. S. E. 20-47-28

A banded rock that belongs probably with 17657-58. although no chert bands were seen. The knob rises up from the river about 30 or 40 feet. The granite is but a short distance to the south.

Attraction at this point - 40° N.
Strike 8° S of N. Dip 50° N.

✓17660 850 N. 1500 N. S. E. 17-47-28

✓17661 Greenstone conglomerate or tuff similar to all those in this region
17661 pebble from this rock

✓17662 1300 N. 820 N. S. E. 17-47-28

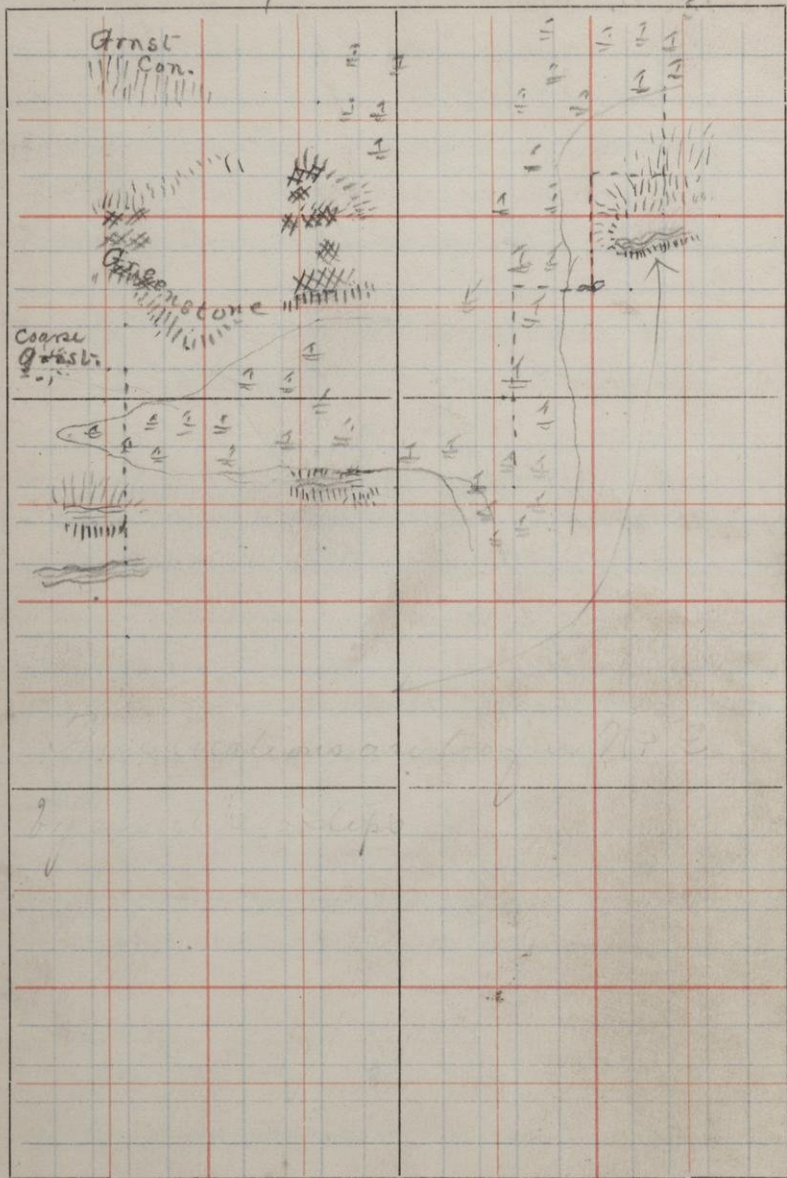
A more massive or greenstone like phase of these agglomerates. They are exposed for 200 steps north and south, most of the distance showing more conglomeratic than the specimen.

✓1000 N. 870 N. S. E. 17-47-28

A low knob of greenstone very similar to 17662

N.E. 1/4 20 T. 47

R. 28



Faint handwritten notes or labels, possibly describing geological features or locations.

47663 900 N. 850 W. S.E. 17-47-28

The greenstone tuff comes in again in a ridge running E. 15° N. the strike I think of these rocks corresponds with this direction

The dip is to the south at an angle of about 55°

✓ 17664 175° N. 850 W. S.E. 17-47-28

Massive greenstone from large ridge running about E. & W.

✓ 17665 600 N. 250 N. S.E. 17-47-28

a more schistose phase of the conglomerate, the conglomeratic structure not being so pronounced

Strike 45° N of W. (?) Dip almost vertical

✓ 17666 600 N. 130 N. S.E. 17-47-28

The greenstone conglomerate shows in a small exposure at top of hill on west side of swamp.

Strike N. 15° N. Dip 75° S.

✓ 600 N. 100 N. S.E. 17-47-28

600 N 60 "

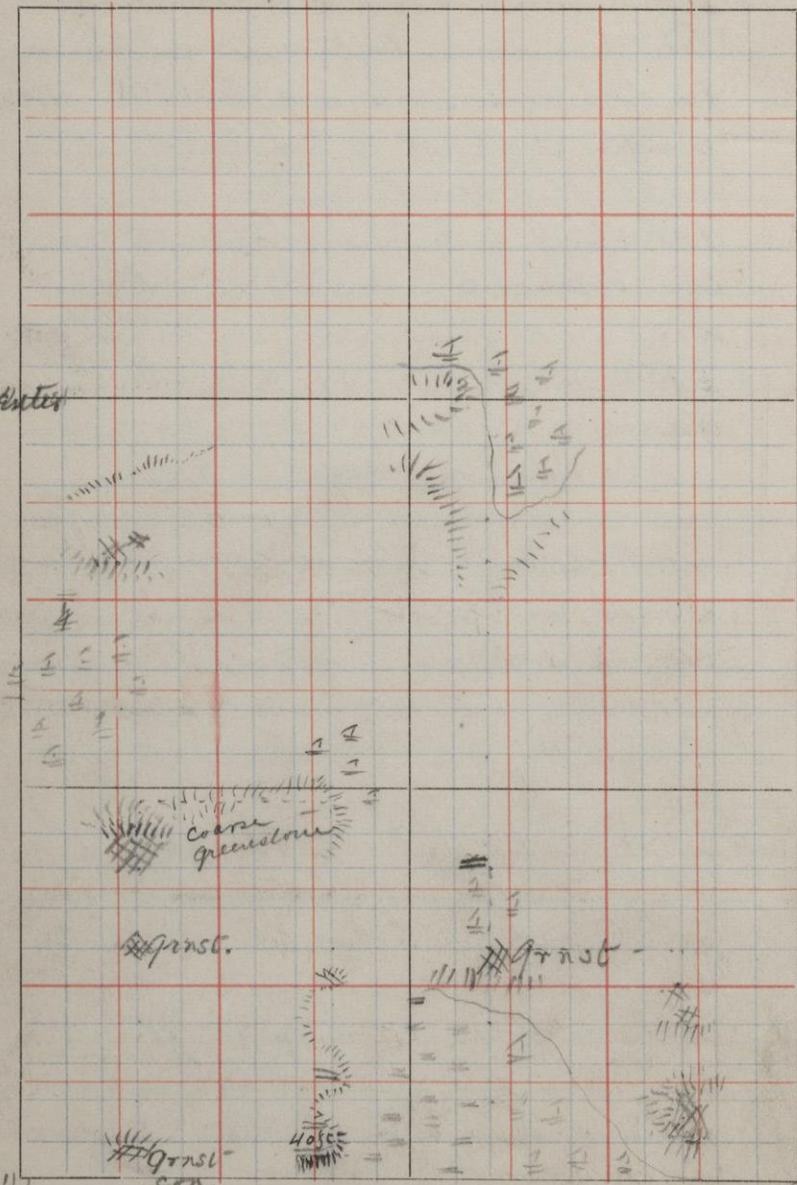
Exactly like 17666

D.E. 1/4 17

T. 47

R. 28

Center



cont

- 17667 1750 N. 600 W. S. E. 20-47-28
Coarse greenstone It seems to
have a strike here of N. 10° S. and
a dip of about 45° to the N. (?)
- 17668 1400 N. 550 W. S. E. 20-47-28
A banded rock like ¹⁷⁶⁵⁷⁻⁵⁸⁻⁵⁹ 17657-58-59
in fact a continuation of the same
ledge as ¹⁷⁶⁵⁹ 17659 Dip and strike the
same
- 17669 1640 N 250 W. S. E. 20-47-28
Act. schist striking 20° S. of N.
About 40 slips south a small exposure
strikes 40° S. of W. and dips 35° N.
The exposures are both only a few yds in
area
- 17670 1700 N. 200 W. S. E. 20-47-28
The west end of a large range of
schist similar to 17669
Strike 10° S. of W. Dip 35° N.
The banding is much contorted.
The weathered surface shows ^{narrow} lines
and lines of ^{small} lens shaped areas which
weather white

N

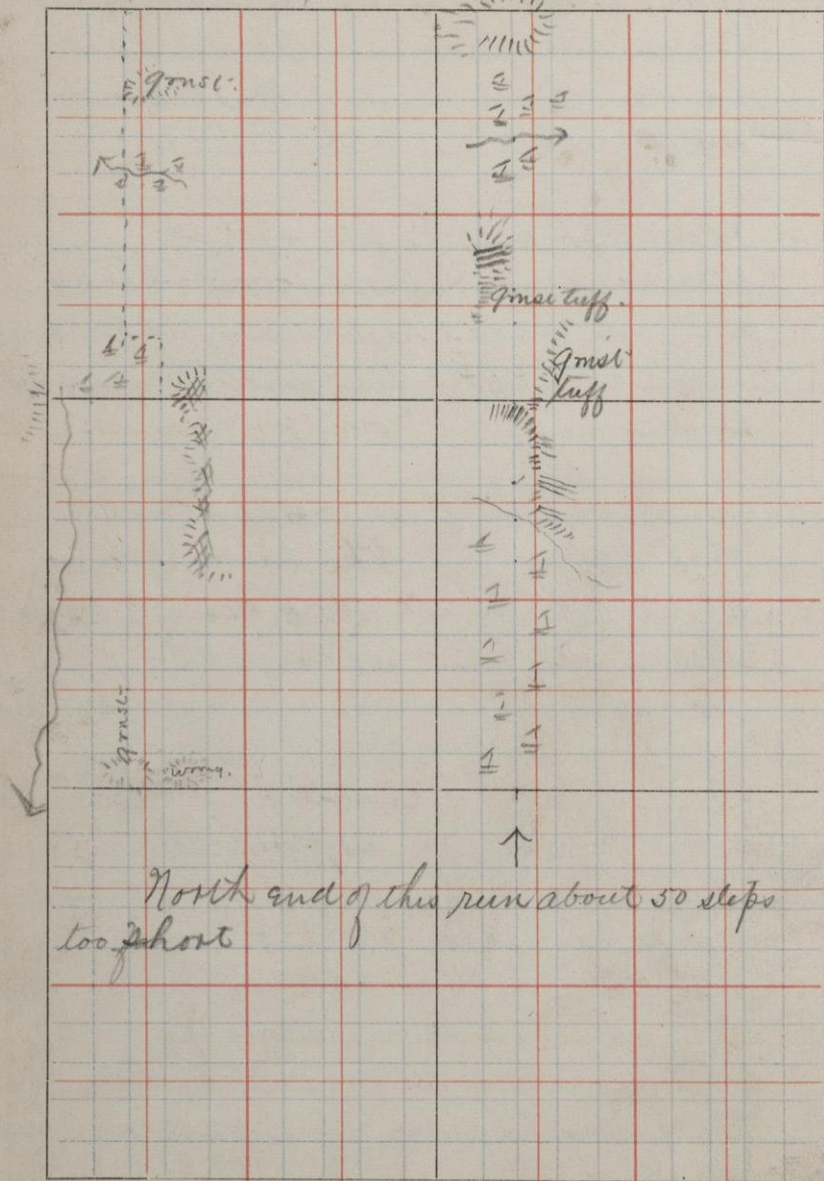
connected by E. rim.

NB

N.E. 1/4 17

T. 47

R. 28

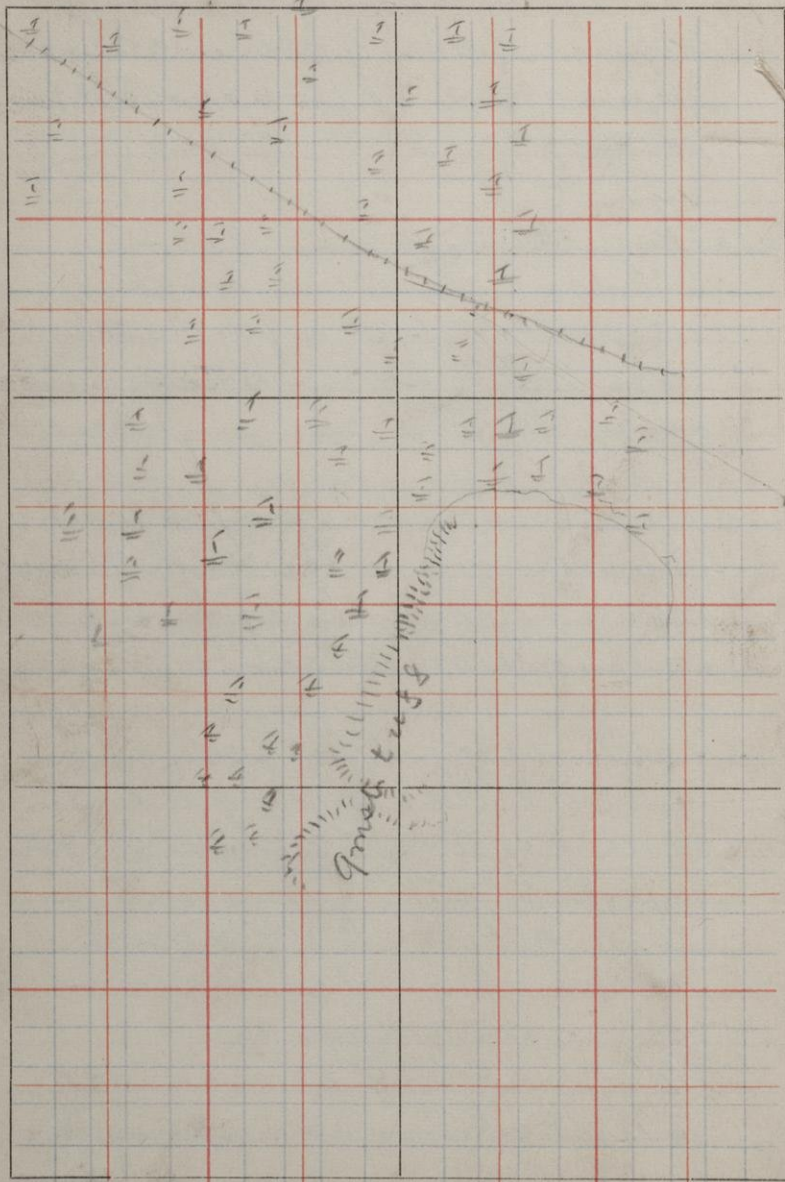


- ✓17671 75N. 150W. S. E. 17-47-28
A large ledge of coarse greenstone
rising about 60 feet above the
swamp.
- ✓17672 240N. 150W. S. E. 17-47-28
A ledge of greenstone conglomerate
similar to those a few hundred
steps west. The fragments are all
small and the rock quite massive
- 400N. 400W. S. E. 17-47-28
Greenstone con. The strike seems
to be E. & W. and the dip high to the
south, both are obscure.
- ✓17673 840N. 475W. S. E. 17-47-28
Greenstone tuff striking a little
south of west (?) exposure small
inside of bluff
- 740N. 375W. S. E. 17-47-28
The same rock show I am not sure
it is in place however
This same rock shows north
to 1030 when a swamp runs
north to 1350

M. 26.1/416

T. 47

R. 28

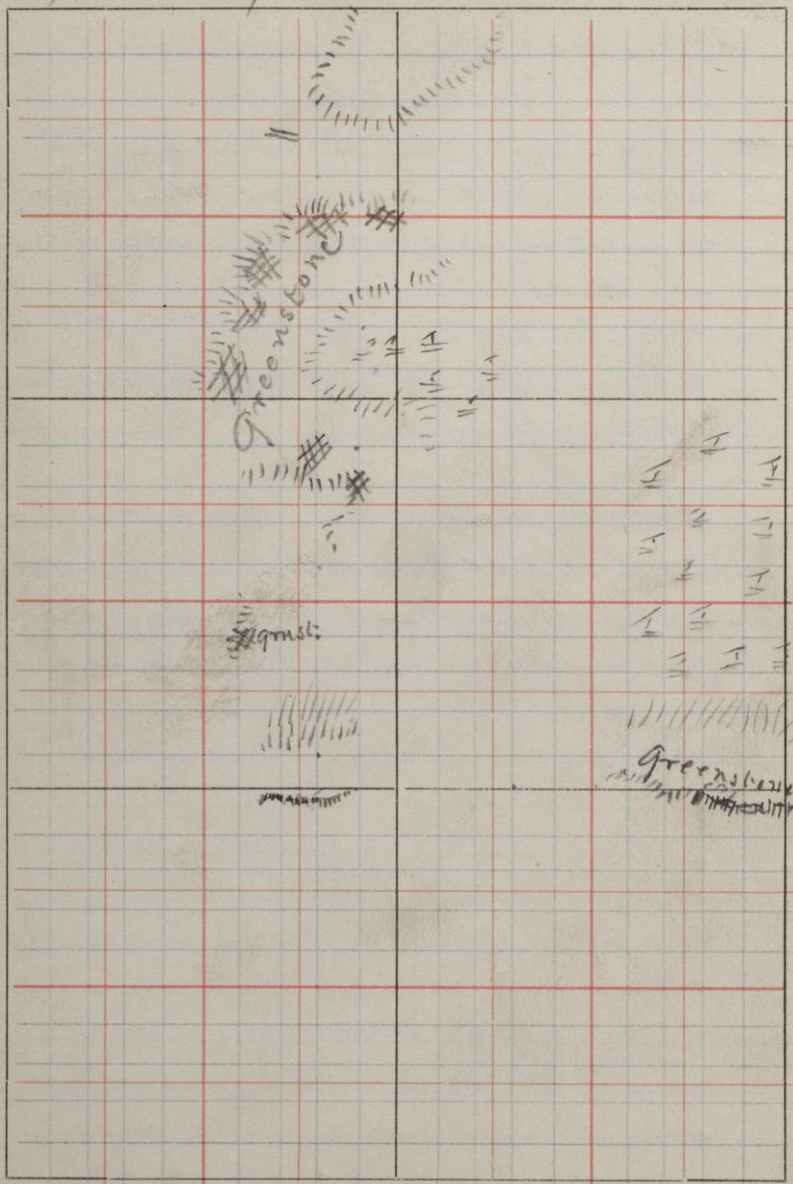


- 17674 1400 N. 400 W. S. E. 17-47-28
Greenstone conglomerate. The
lines of fragments show plainly
on the surface of this exposure
running E. 20 S.
Dip about vertical
- 17675 1700 N. 400 W. S. E. 17-47-28
Greenstone tuff striking 20 S of W.
and dipping 85° N.
- 17676 2000 N. 400 W. S. E. 17-47-28
a fine grained mica or chlorite
schist exposed in a knob
rising 30 or 40 feet above the
level to the north
Strike of schistose structure N. 45 W
Dip 80 & 85° S.
- 17677 1400 N. 1400 W. S. E. 16-47-28
A hard rather coarse greenstone
exposed in a ridge rising about
30 feet above swamp
A few feet to the south the
greenstone conglomerate or tuff
shows the bandings striking
25° E. of N. and dipping N. 70 57°

S. 21. 1/4 16

T. 47

R. 28.



- 17678 1200 N. 1500 W. S.E. 16-47-28
Greenstone conglomerate or tuff
- 17679 950 N. 1650 W. S.E. 16-47-28
Small exposure of tuff nicely banded
the direction of the strike is here
changed to W. 10 N.
Dip 55° S.
- 17680 750 N. 1600 W. S.E. 16-47-28
A large knob of massive
greenstone
The greenstone tuff lies to the
north about 30 steps in low
exposures
- 17681 400 N. 1600 W. S.E. 16-47-28
Massive greenstone
- 17682 1970 N. 1600 W. S.E. 21-47-28
A large ledge of schist rising
abruptly from the south to a
height of 75 or 80 ft. It is
exactly like that to the west
Strike in general N. of W. a few degrees
Dip 65° N.
South of this the country is low and

77. 91. $\frac{1}{4}$ 21 T. 47

R. 28

~~10086~~ 10086

4 4
4 4
4 4

4 4
4 4
4 4
4 4

grn.

flat as far as the river

✓17683 1240 N. 1650 W. S.E. 21-47-28

Pink granite, in an exposure 20 or 25 feet high just south of swamp

The granite seem to run about E & west along here

✓17684 00 N. 1100 N. S.E. 16-47-28

A large ridge of greenstone fully 100 ft high running a little N. of W. for a long distance

✓17685 200 N. 800 W. S.E. 16-47-28

Same large greenstone range

✓17686 1300 N. 600 W. S.E. 16-47-28

Coarse greenstone, the same rock shows also a short distance to the west and to the north

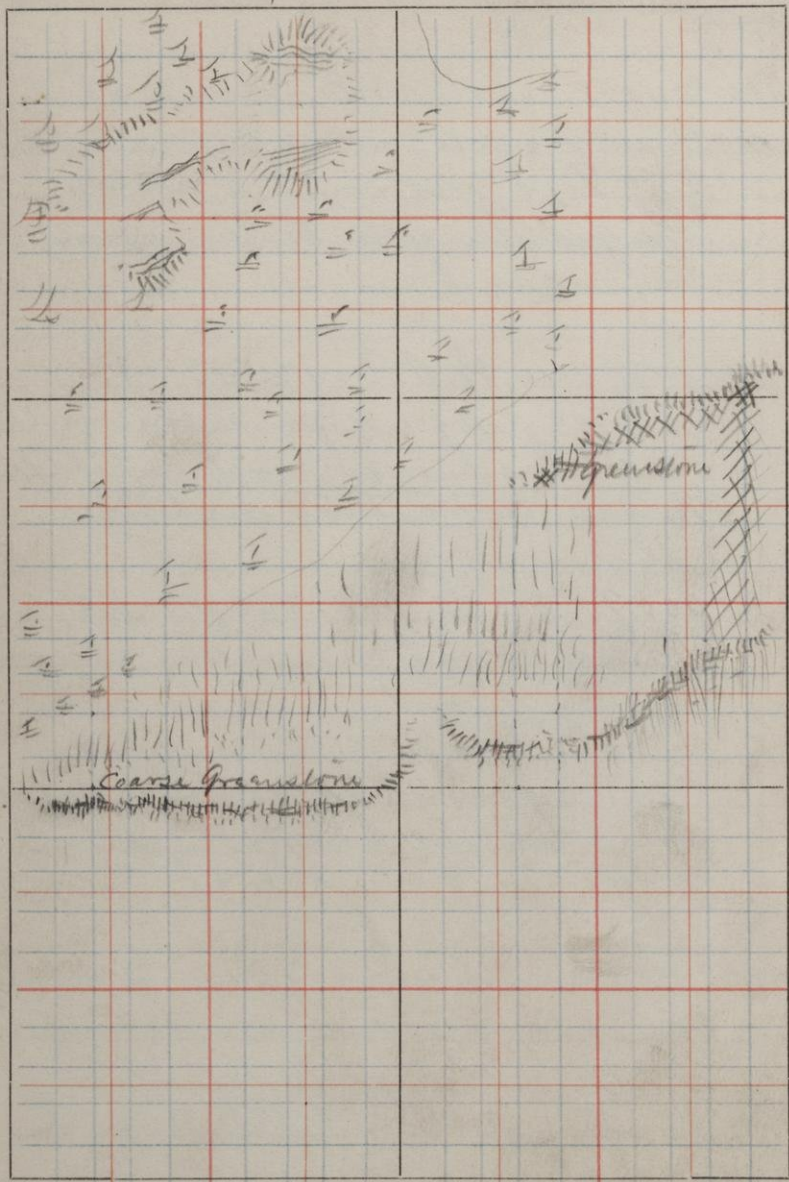
✓17687 1150 N. 600 W. S.E. 16-47-28

A highly banded much crystallized schist. The general strike is 20° N. of W. Both N. and S. dips were observed

D.E. 16

T. 47

R. 28



950 N. 600 W. S. E. 16-47-28

- ✓ A high knob of schist exactly like
17687 prevailing dip is to the N.
17688 The strike on the south side of this
knob (850 N) is $N 25 S$. The bandings
here being quite regular
Dip to north at high angle $65-70^\circ$

✓ 17689 525 N. 500 W. S. E. 16-47-28

A large ledge of greenstone. A con-
tinuation of that to the S. W

✓ 17690 600 N. 1000 W. S. E. 15-47-28

Greenstone somewhat finer grained
than that to the south west but
exposed in the N. E. continuation of
that range

✓ 17691 300 W. 470 N. S. E. 15-47-28

A low ledge of somewhat schistose
greenstone

✓ 17692 640 N. 1840 N. S. E. 23-47-28

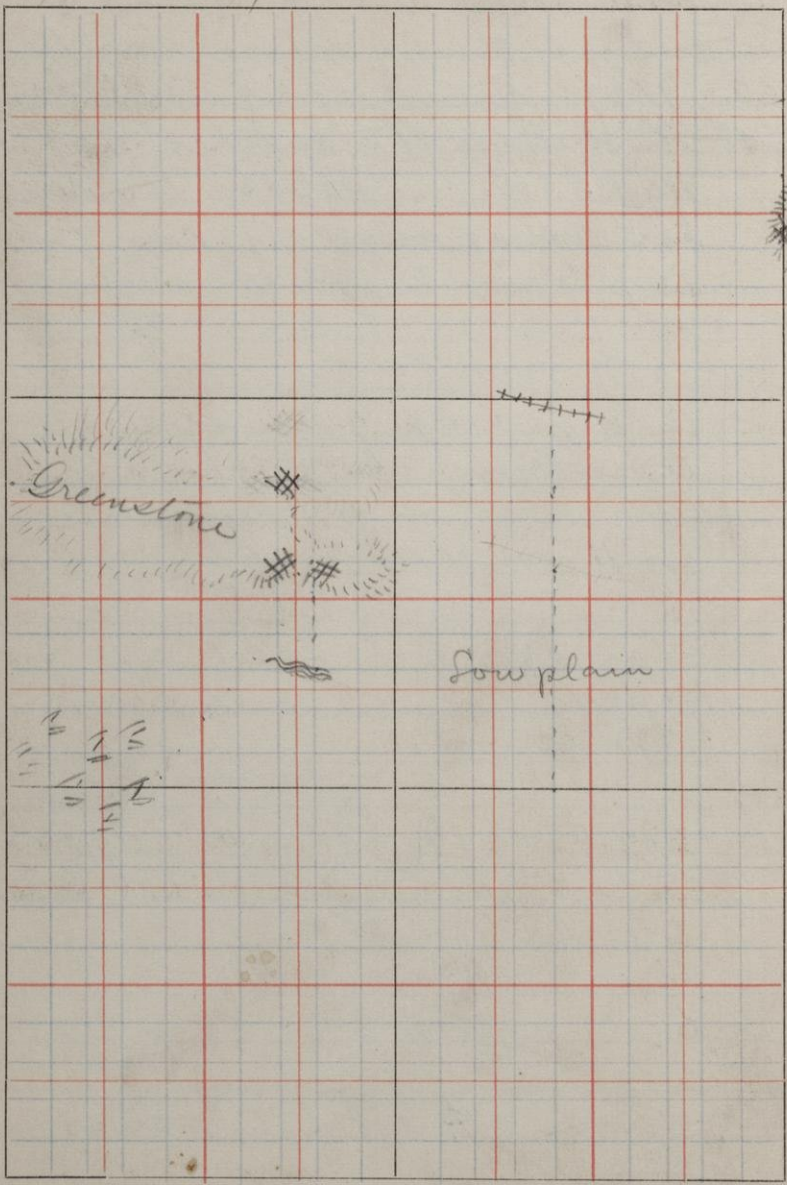
A low ledge of grey granite
300 dips N. N. E. the granite shows again
in low outcrop

900 N. 1650 N. Drill hole, said to

N.E. 1/4 16

T. 47

R. 28



Greenstone

Low plain

Hand-drawn symbols consisting of several small, irregular shapes arranged in a cluster.

strike a few feet of over

✓17693 780 N. 1170 N. S. E. 14-47-28
An. Act. Sch. (?) in large exposure
of finely banded rock. Like
some of the schist taken farther
west
Strike E. & W. Dip N. 55°

✓17694 700 W. 750 N. S. E. 14-47-28
Massive greenstone rising in
a knob 20 to 50 feet above swamp to
south

✓17695 750 N. 400 N. S. E. 14-47-28
Low ledge of massive greenstone

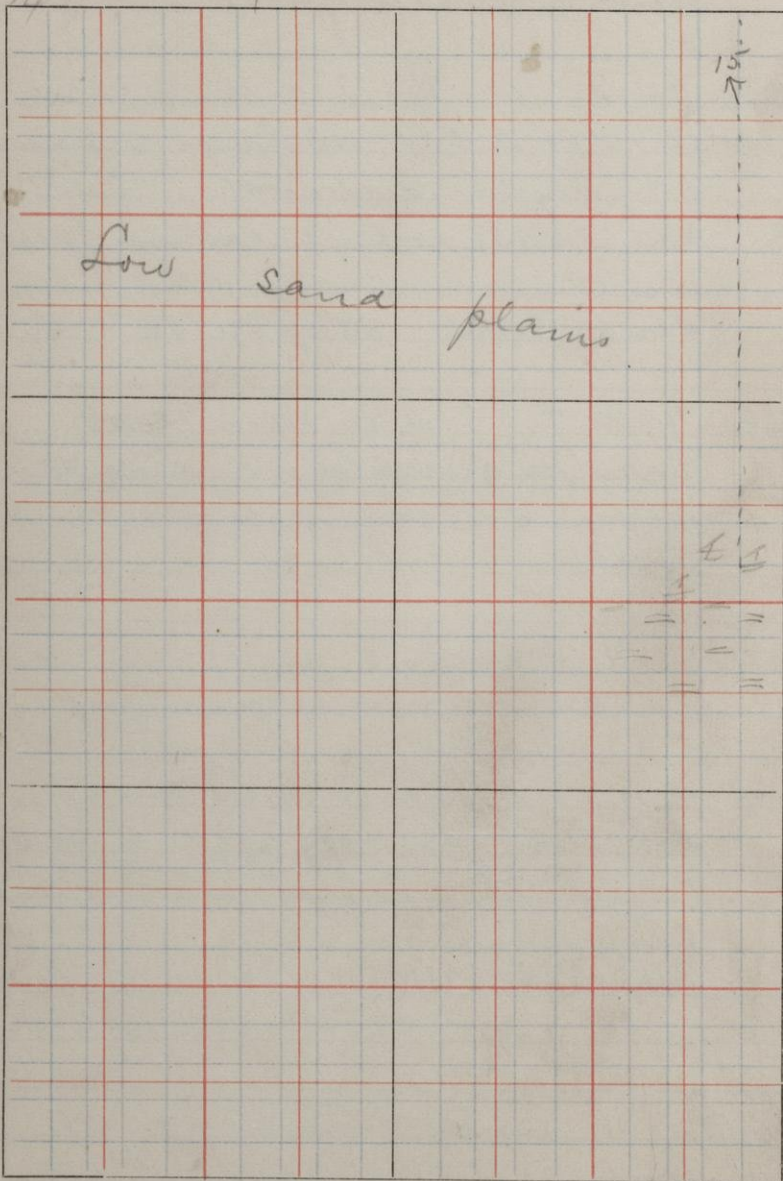
✓17696 40 N. 1710 N. S. E. 5-47-28
Schistose greenstone (?) in knob
rising 30 or 40 feet above general
level
Strike E. & W.
Dip 70 S.

✓17697 40 N. 1580 E. S. E. 5-47-28
From east end of above knob.

N.E. 1/4 21

T. 47

R. 28



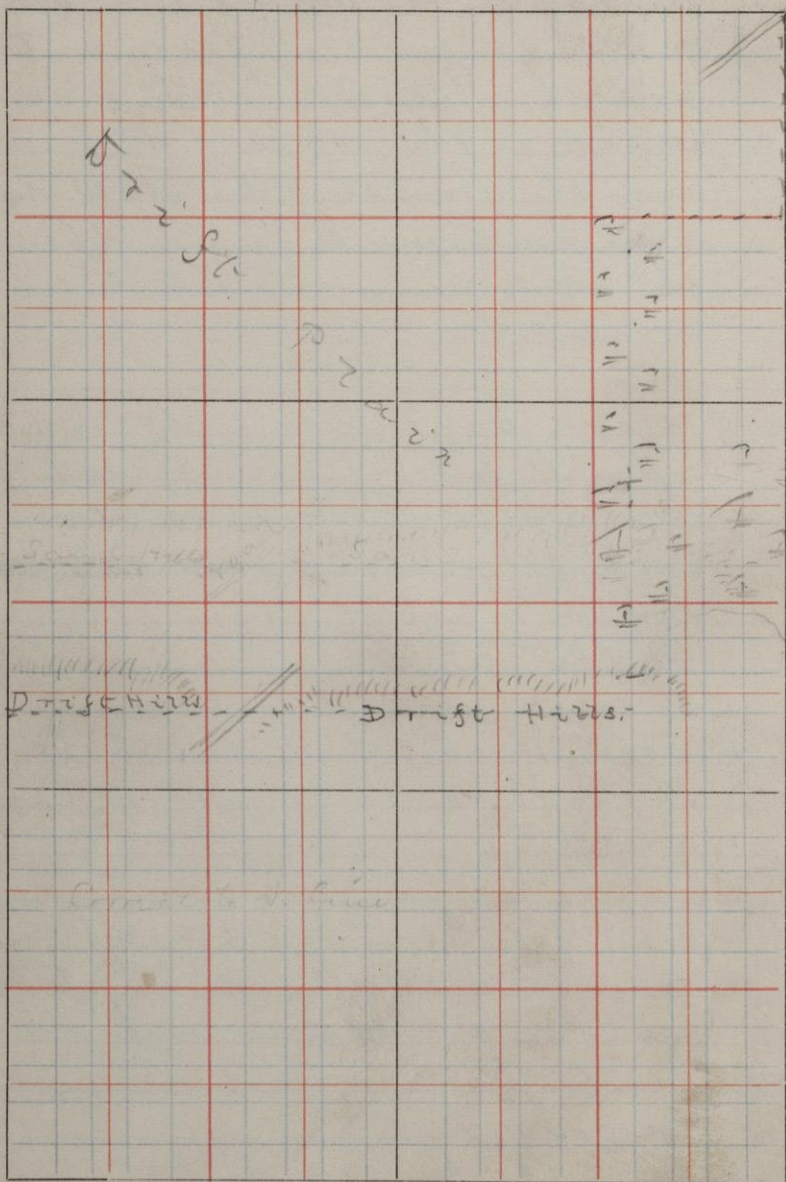
The hills in the N.W. of S.W. 5-47-28 do not show rock in place but from the numerous slate fragments as well as the strike of the hills and the position of the slate to the west lead me to think that the slate runs through to this point.

- ✓17698 1410 W. 1340 N. D. E. 5-47-28
A small outcrop of black slate like that found to the west - It contains a large quantity of pyrite
Strike E. 20 S.
Dip 85° N.
- ✓17699 800 N. 1350 W. S. E. 32-48-28
From the south face of northern granite
- ✓17700 800 N. 1185 N. D. E. 32-48-28
Dike about 20 ft wide in the granite. It stands about vertical
- ✓17701 3 inches from contact with granite
- ✓17702 at contact
- ✓17703 granite from contact

N. 21. 22

T. 47

R. 28

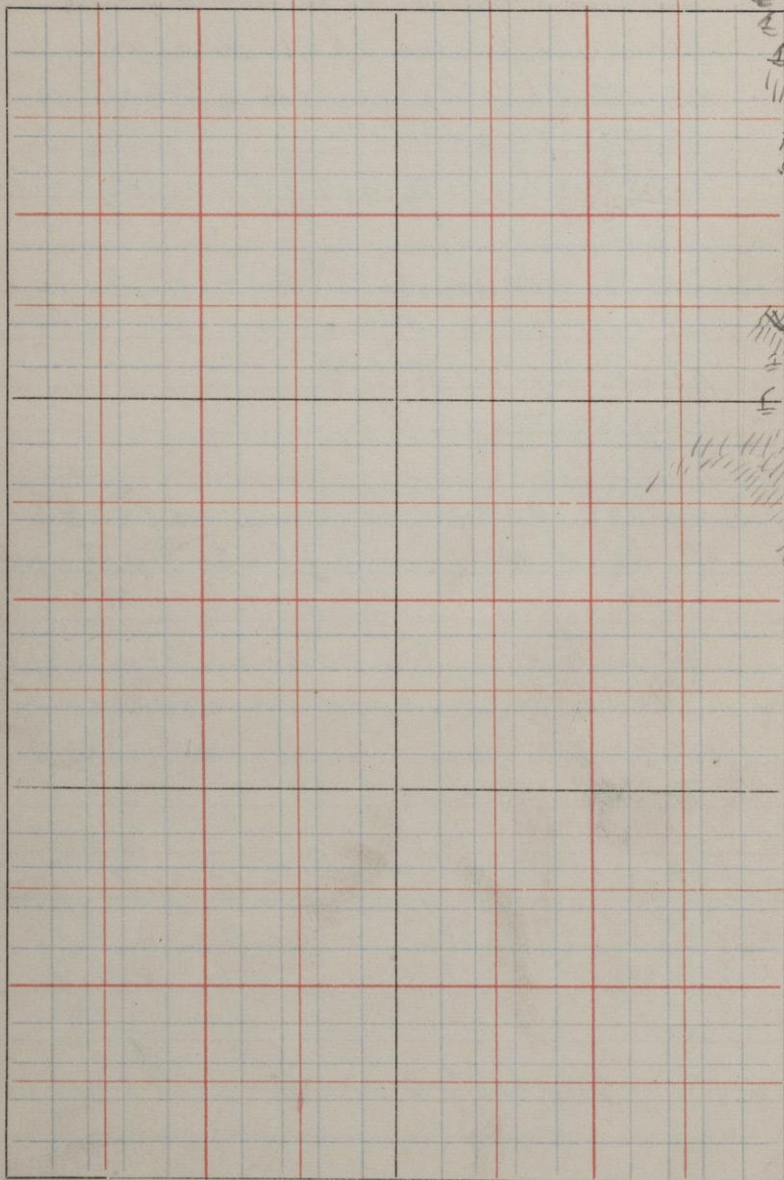


- ✓17704 1800 N. 580 ft. S. E. 5-47-28
 Quartzite-like that overlying the
 one at the American mine
 strike E. 20 S.
 Dip very high to south (nearly vertical)
- ✓17705 900 N. 580 ft. S. E. 5-47-28
 A low ledge of fine black slate
 striking 20 S of E.
 Dip vertical
- ✓17706 500 N. 900 ft. S. E. 5-47-28
 A high knob of slate striking
 25 N. of W. Dip vertical
 One of the triangulation stations
 From the strike it appears to
 belong with the graphitic slates
 to the west
- ✓17707 700 ft 500 N. S. E. 5-47-28
 Knob of slate about 20 ft high
 Slate is exposed on the south
 side
 Strike N. 20 N. Dip 50 N.

S.W. 15

T. 47

R. 28



~~Handwritten scribbles and marks in the top right corner.~~

~~Handwritten scribbles and marks in the middle right side.~~
25

17708

1000 N. 800 W. S.E. 8-47-28

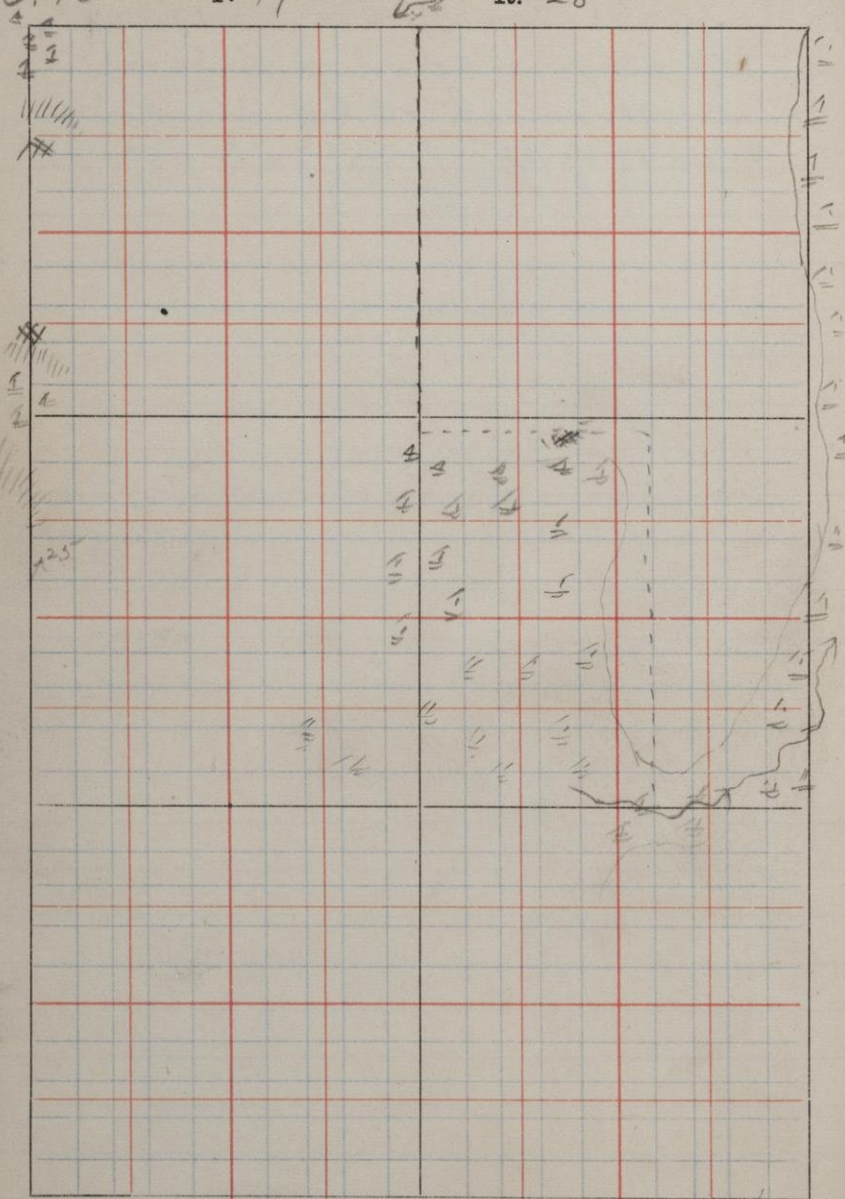
a large ridge of greenstone
conglomerate on tuff striking
20 N of W Dip 70 to 75° N.

S. E. 15

T. 47

|||||
=

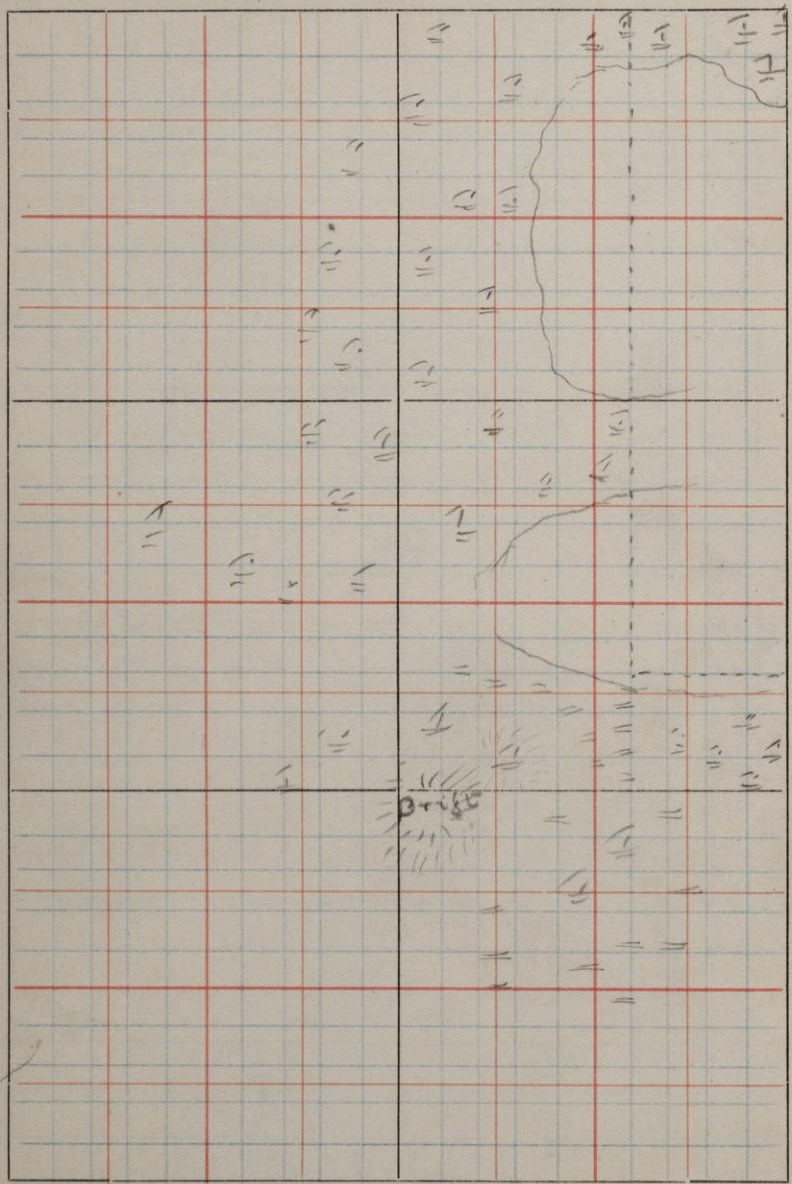
R. 28



71. E. 22

T. 47

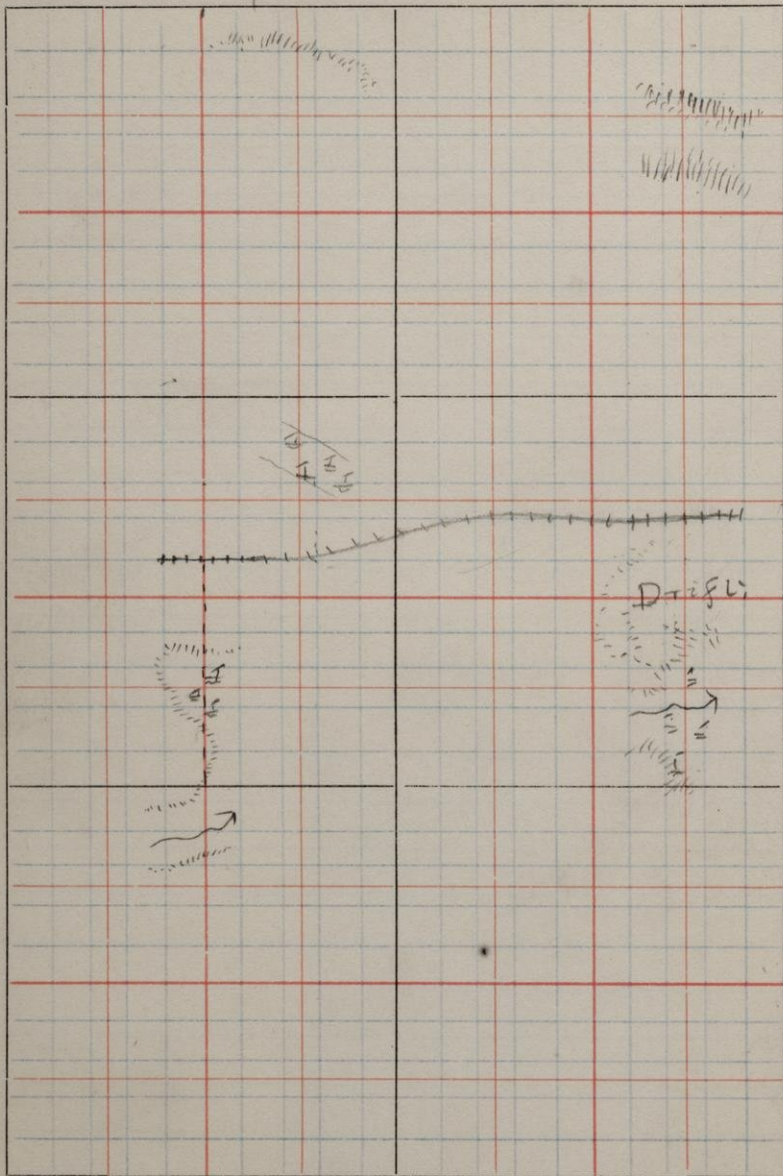
R. 28



7.7.14

T. 47

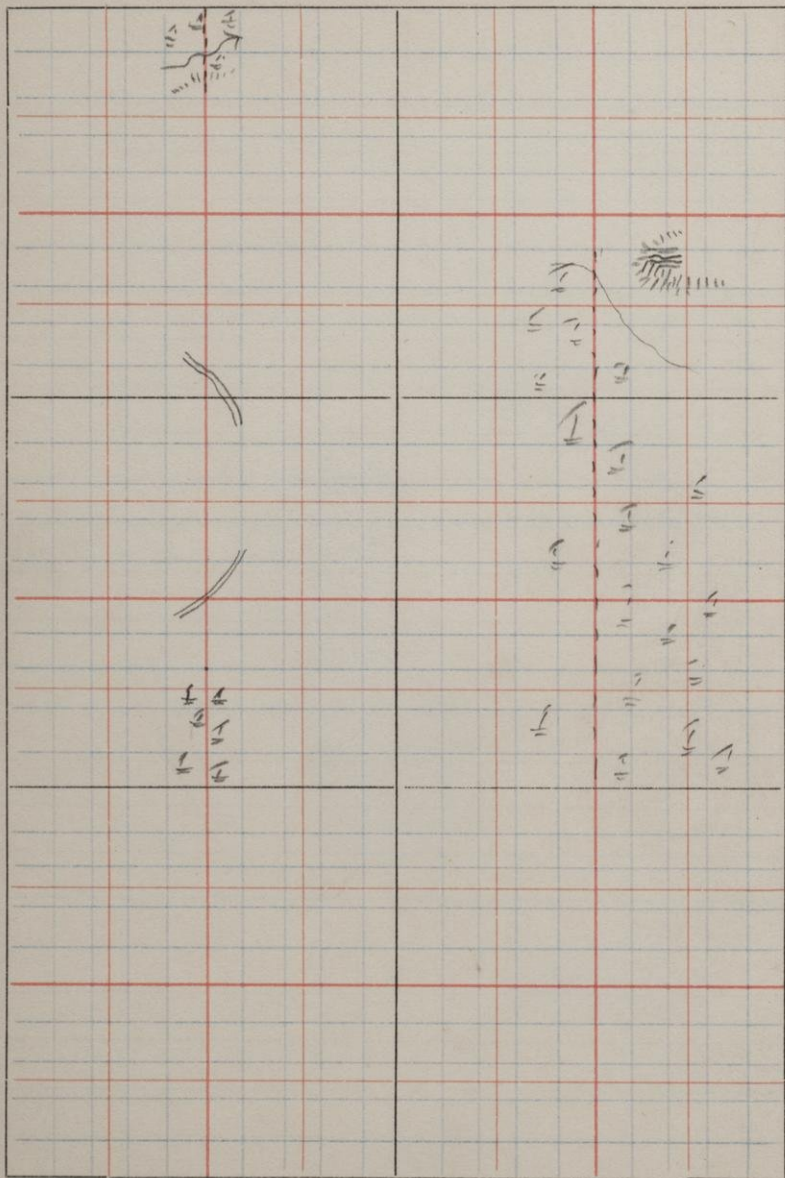
R. 28



A. 27. 14

T. 47

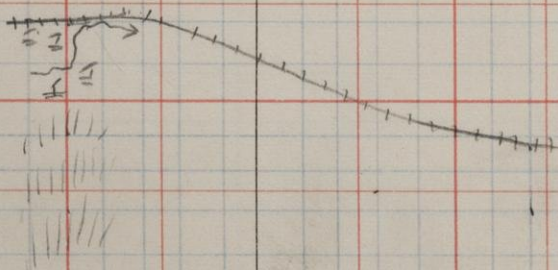
R. 28



M. E. 14

T. 47

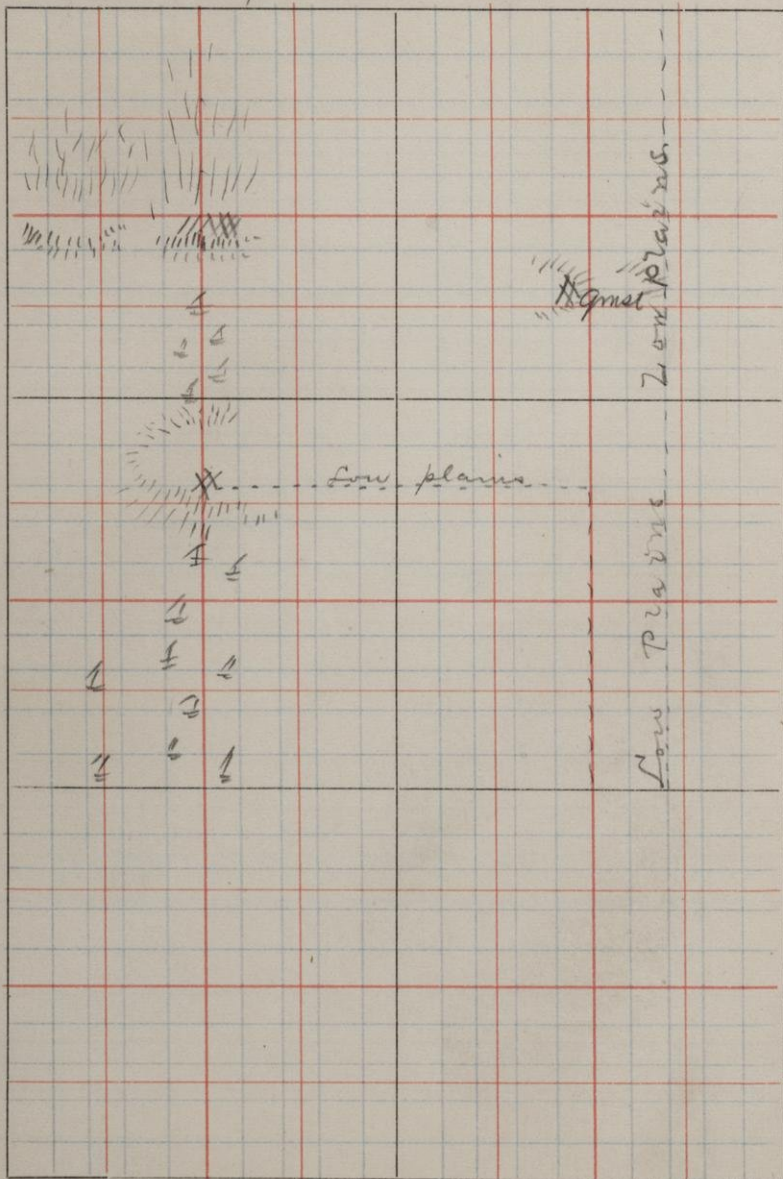
R. 28



P. G. 14

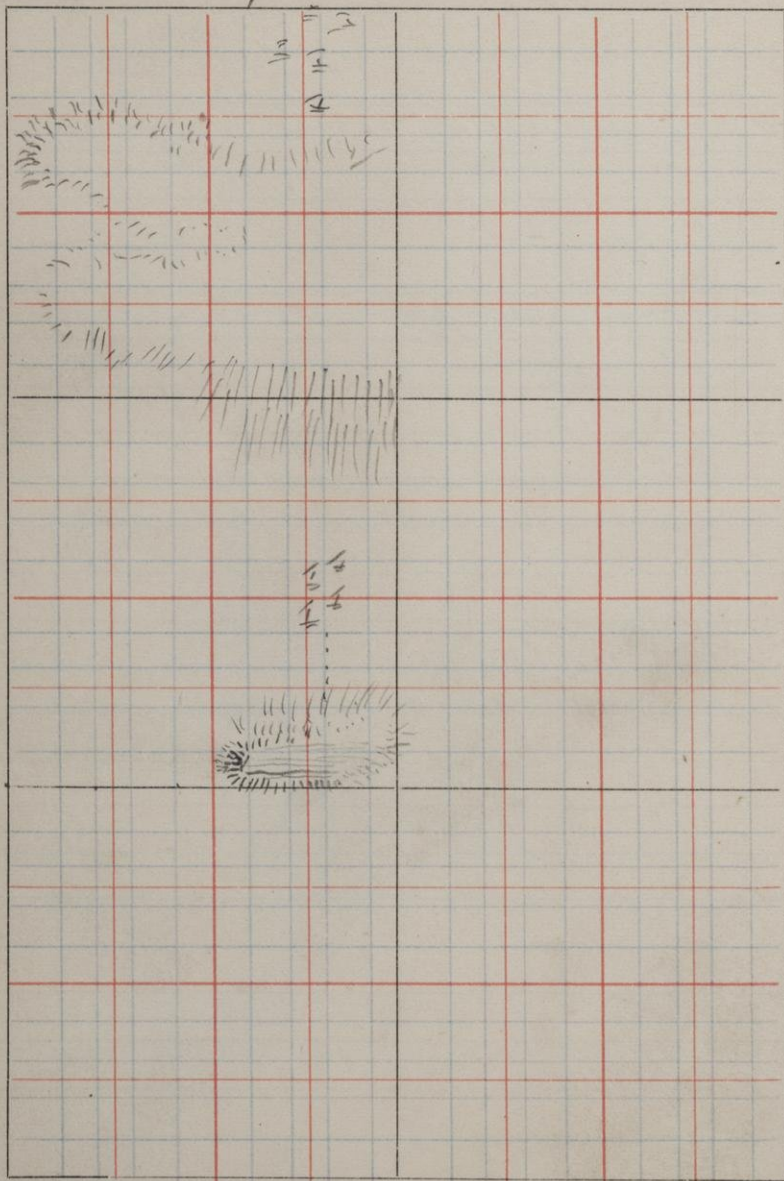
T. 47

R. 28



D. H. Sec 5 T. 47

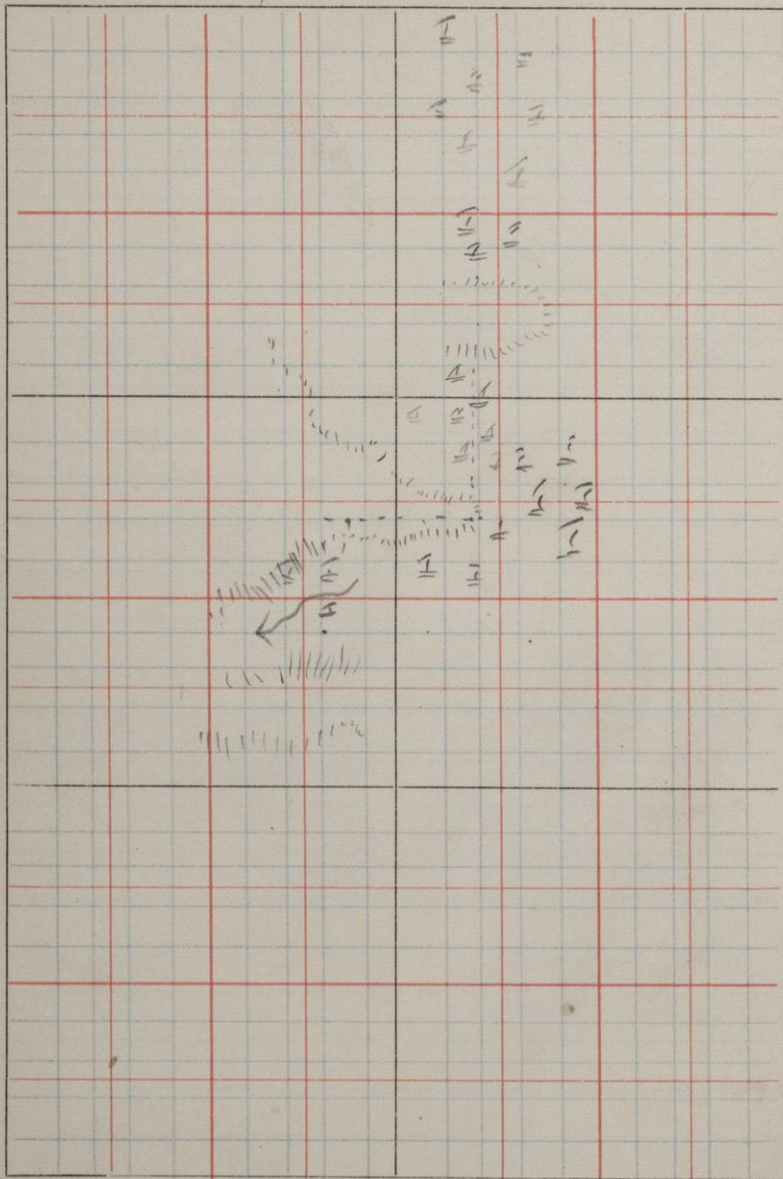
R. 28

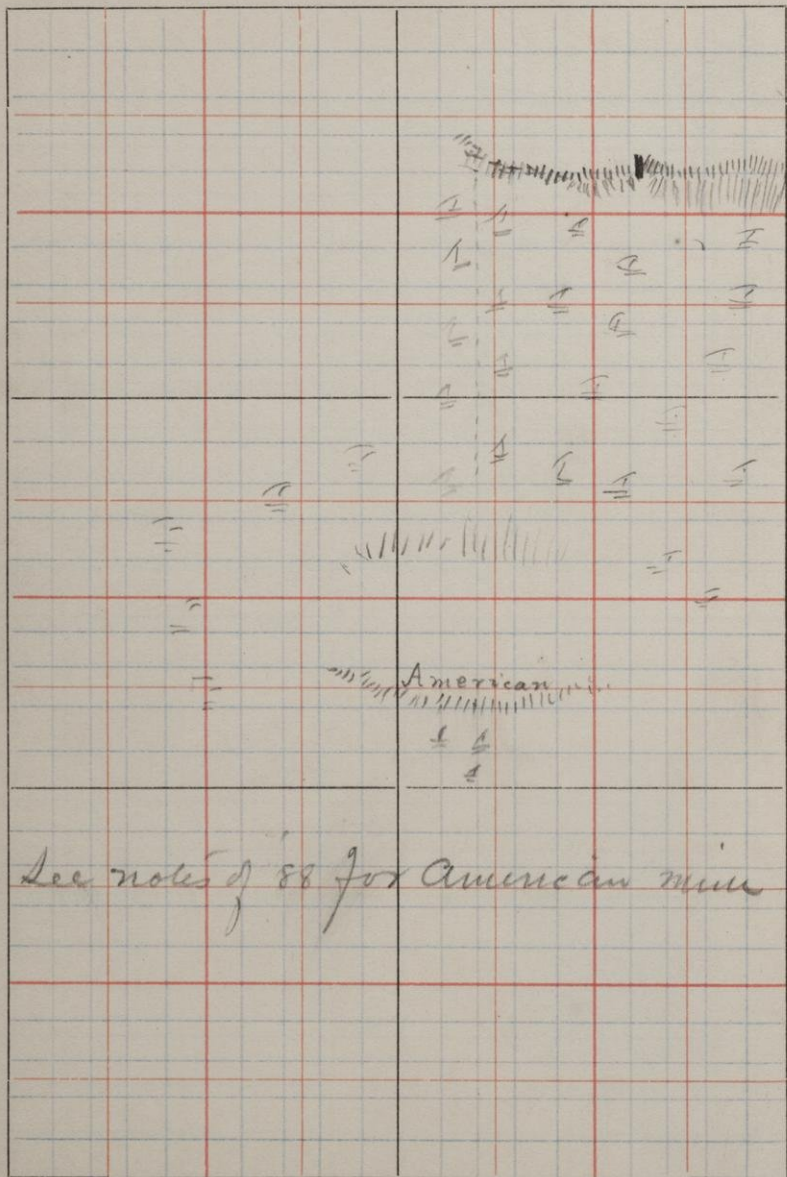


9. 26. 5-

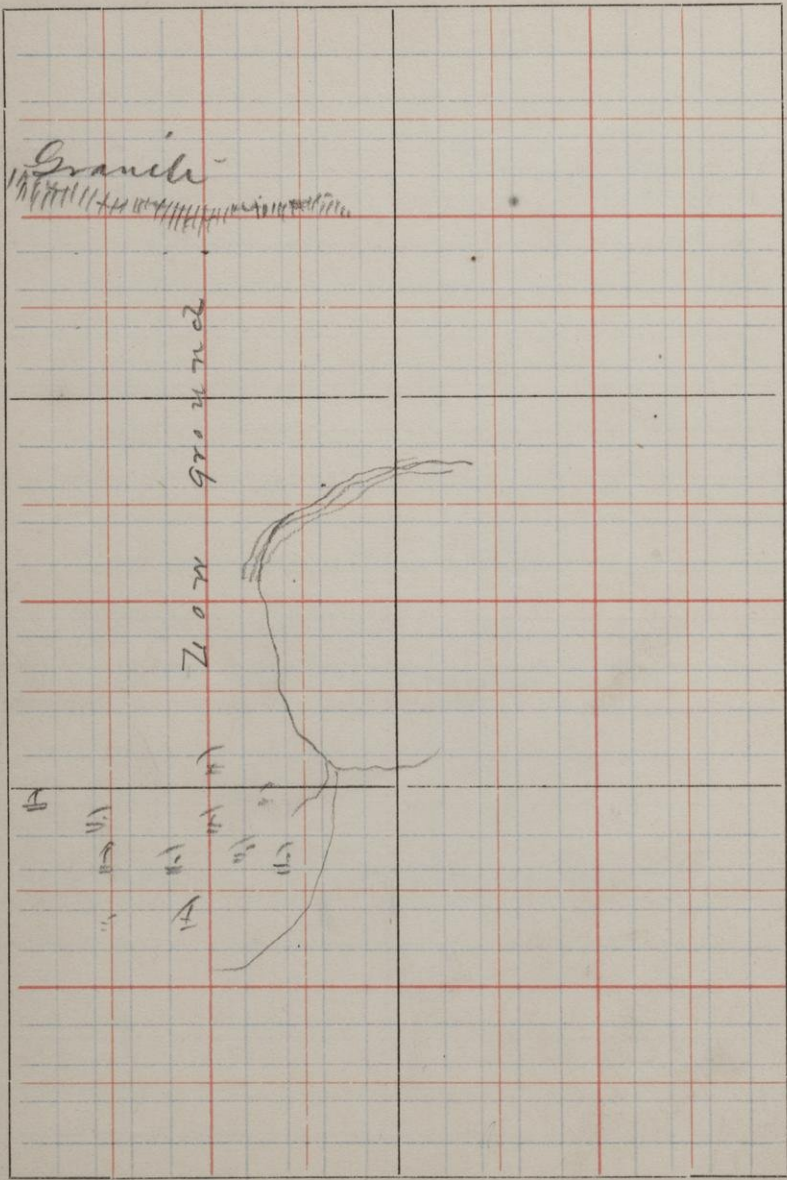
T. 47

R. 28





See notes of '88 for American mine

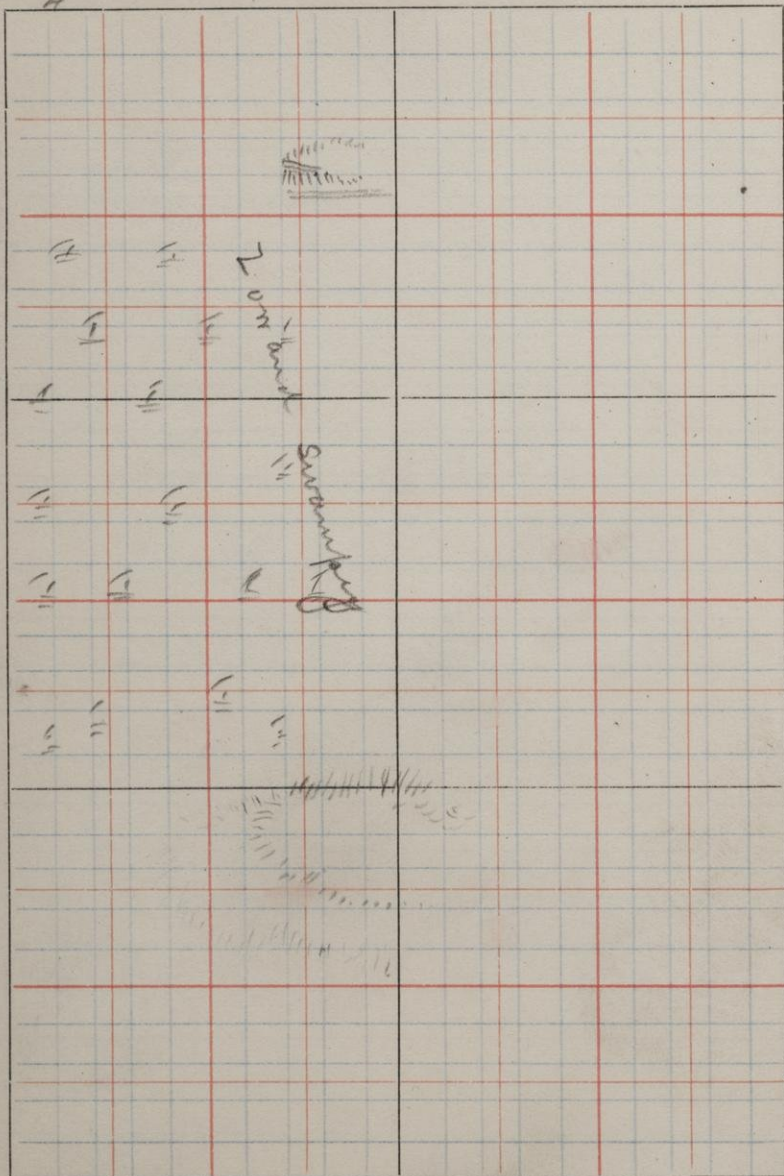


[Faint, illegible handwriting]

N.E. 1/4 5

T. 47

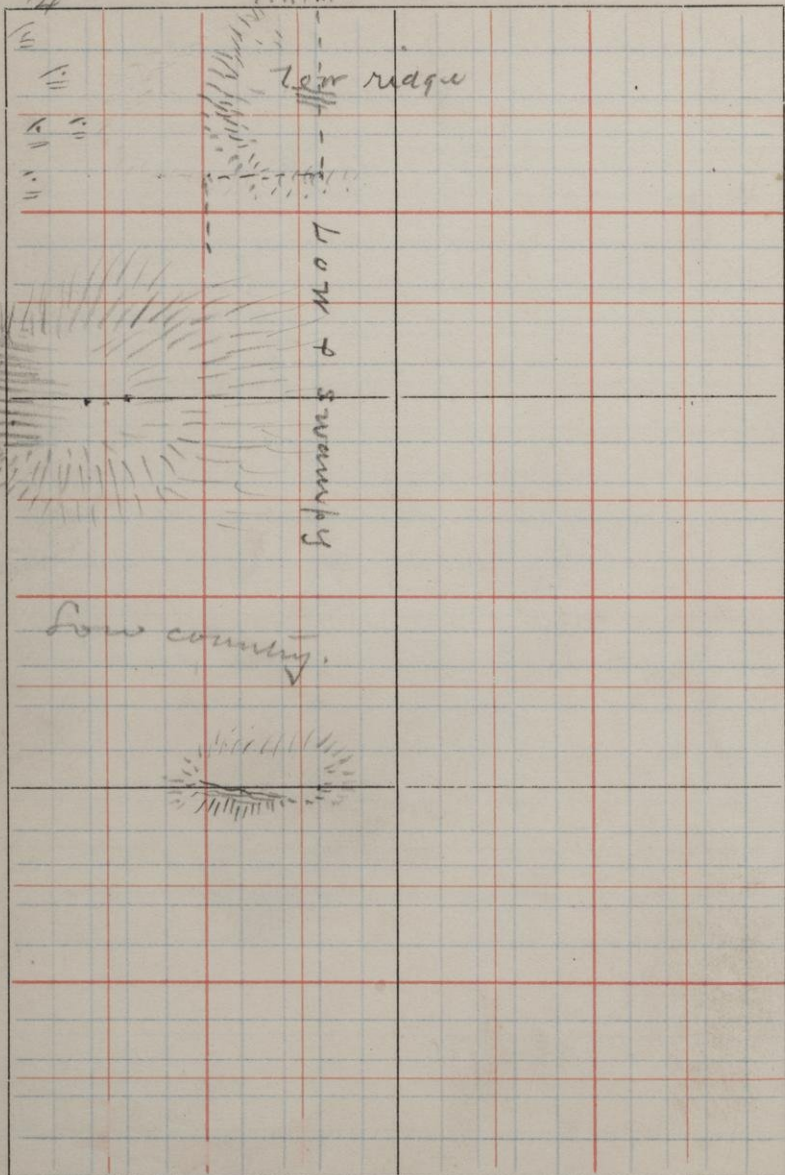
R. 28



S.E. 1/4 5

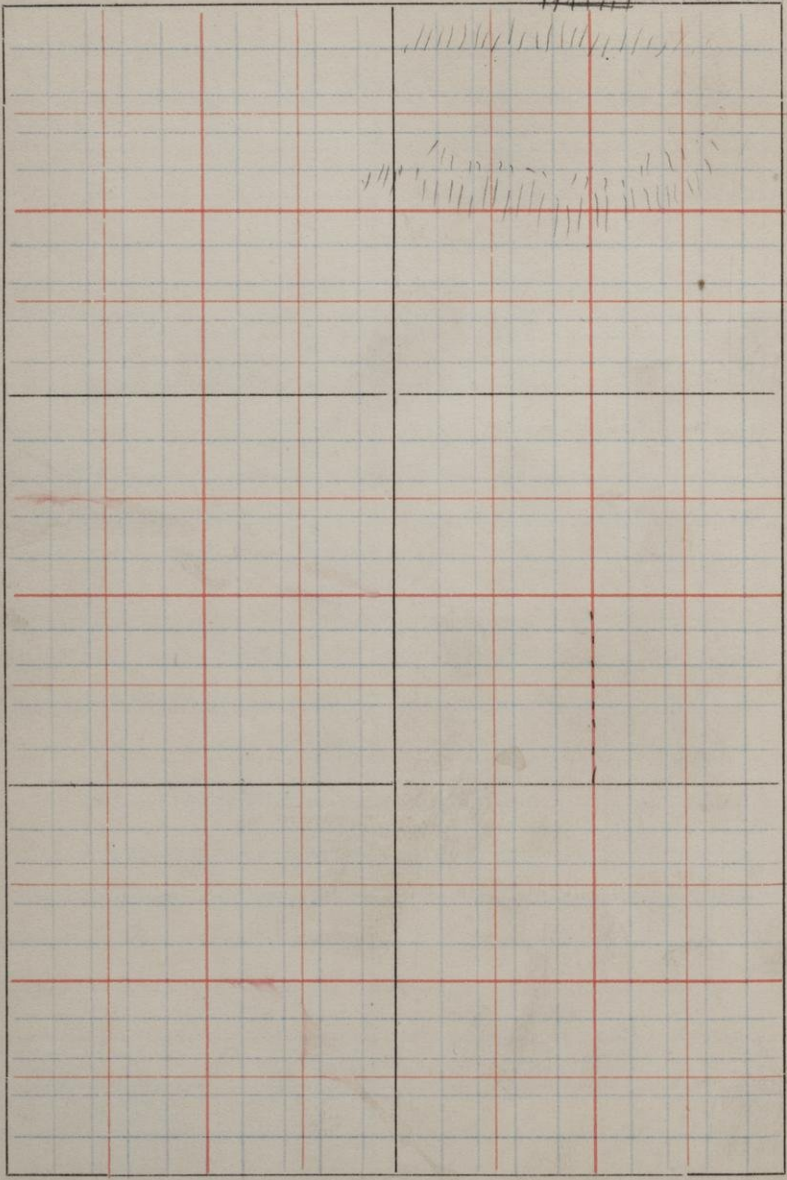
T. 47

R. 28



7. 26 1/4 4 T. 47

R. 28



No exposures were noted in the N.W. $\frac{1}{4}$ of 4-47-28. The surface is all low and level except one small ridge in the north side which from test-pits seems to be mostly drift. It is however about on the strike of the quartzites of the American Mine and close to the east.

The S.W. $\frac{1}{4}$ of 4-47-28 is nearly all swamp; the portion not swamp is low and level.

47709 470 N. 1200 W. S. E. 33-48-28

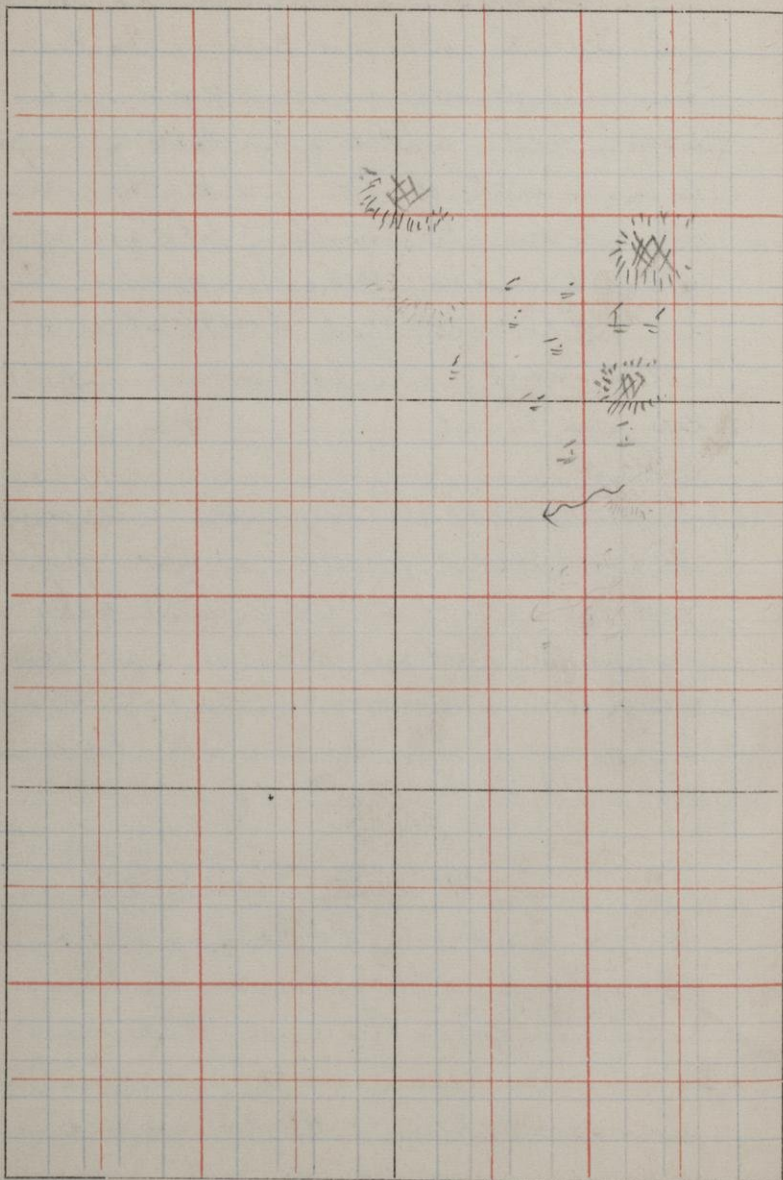
A granite from round knob rising 25 or 30 feet. The large granite ridge which has been running so prominently E & W. breaks down here into lower rounded knobs.

47710 490 N. 250 W. S. E. 33-48-28

From a large dyke in the granite. The granite at this point is in low knobs and the dyke seems to run north and south through them. Only one actual contact was seen but from the relative positions of the rocks

S. N. Sec 33 T. 48

R. 28



and from the nature of the greenstone at the contact, it being here much finer grained and schistose, it is taken to be a dike. In one place it includes a fragment of the granite 4 or 5 ft. in length. Small granitic veins were also noted in it.

About 50 slips west the same rock and granite are in contact although the actual line of contact is covered.

It may be that this is the line of junction between these serpentine rocks and the granite instead of a dike. If so the serpentine seems to be the later formation.

- ✓17710 Near contact with granite
 ✓17712 From granite fragment in the gneiss

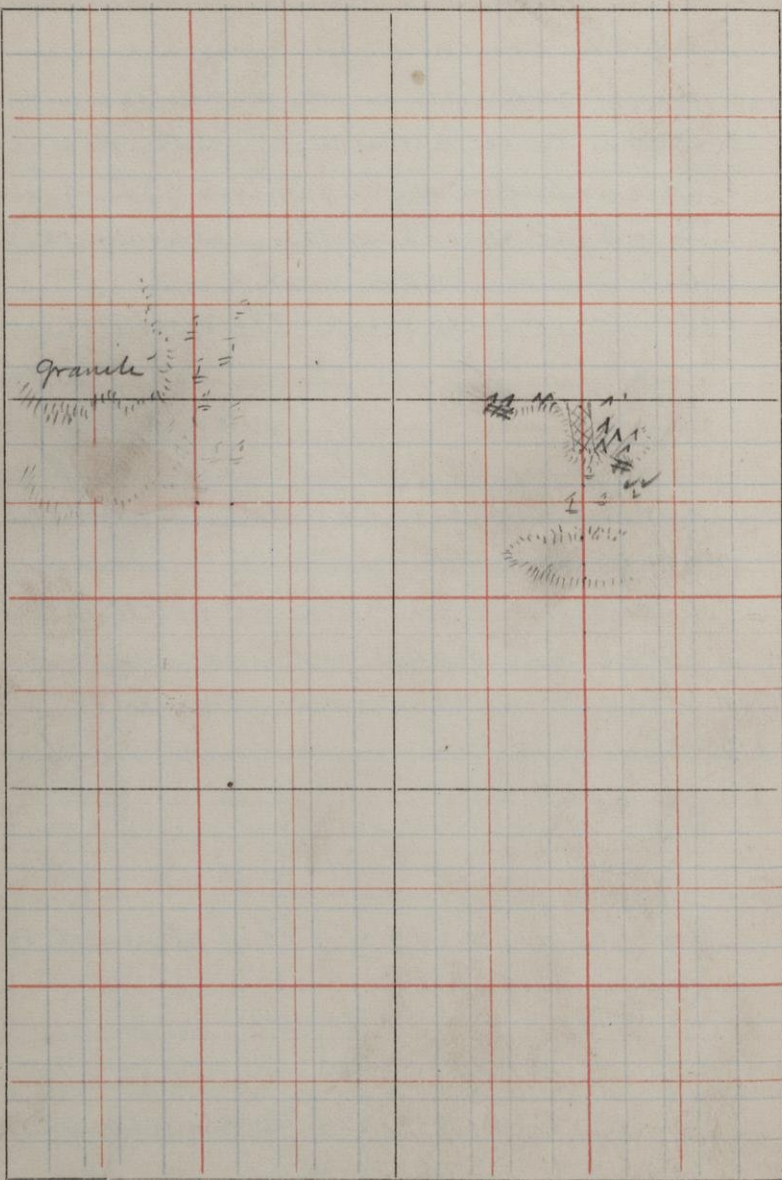
✓17713 325 N. 220 W. S. E. 33-48-28
 A large ridge of this greenstone running E & W.

✓17714 From a vein about 12 inches wide in 17712 well sharply defined with a distinct schistose structure in the gneiss.

P. 33

T. 48

R. 28



47715 1825 N. 500 W. S. E. 4-47-28
 Slate from test pit
 Dip about 50° S. of slaty cleavage

47716 These rocks were taken in order
 47717 from S. to N. across a small knob
 47718 in the S. E. of S. E. 4-47-28
 47719 The south side of the ridge is
 1400 N. S. E. 4 The strike
 is about E & N. a little N of W
 if anything Dip high & north
 for the first time in these
 quartzites

47720 1570 N. 1400 N. S. E. 3-47-28

47721 A ledge of Lean banded ore
 chert & jasper This is the first
 exposure of this iron rocks seen
 Strike N. 10 N.
 Dip vertical

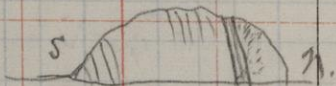
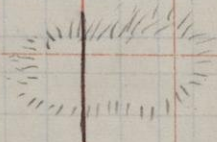
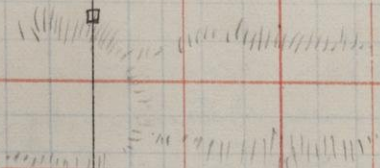
47722 1400 N. 150 N. S. E. 34-48-28

A ledge of rock similar to 17713
 This rock is exposed at intervals
 to within a short distance
 of the granite

7.8.4

T. 47

R. 28



- ✓17723 720 N. 1440 W. S.E. 34-48-28
A small granitic ledge on west-
side of road
- ✓17724 600 N. 1240 W. S.E. 34-48-28
Same serpentine rock exposed
on south side of road. Explorations
for gold made here
- ✓17725 600 N. 1200 W. S.E. 34-48-28
From dike about 2 ft wide in the
serpentine rock (?)
- ✓17726 1340 N. 1050 W. S.E. 3-47-28
Cra from the West shaft of the
Dexter Mine
- ✓17727 Quartzite about 15 ft south
of above shaft. South of
this shaft the Quartzite is exposed
in a high knob in large
fine exposures
Strike 15° S. of W.
Dip 55° N.

N. W. 3

T. 47

R. 28



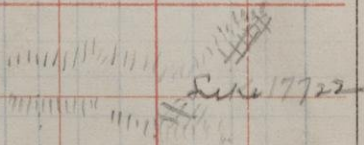
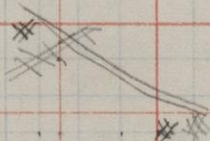
The S. W. $\frac{1}{4}$ of 3 is all low
level ground Road crosses
50 steps west of the S. $\frac{1}{4}$ post

- ✓17728 1720 N. 00 W. S. E. 16-47-28
A small ledge of greenstone on
east side of north and south ridge
- ✓17729 100 N. 250 W. S. E. 9-47-28
A coarser band in the black
slate series. The strike is 20 N. of W.
(May) Dip N.
- ✓17730 125 N. 1450 W. S. E. 10-47-28
- ✓17731 A ledge of slate and quartzite
on the south slope of high bluff
This I think is the south limit
of the slates both from the
topography of the country as well
as from the quartzite which
seem to occur near the south
limit of the slates in several
places to the west.
Strike 20 N. of W.
Dip high to N.
- ✓17732 1200 N. 1400 W. S. E. 15-47-28
Strike E. of W.
Small ledge just N. of R. y.

S. 24

T. 18

R. 28



47733 1150 N. 1430 W. S. E. 15-47-28
A small ledge of greenstone
exposed in Ry. cut.

47734 S. W. Corner Sec 11 - 47 - 28

47735 Slate and quartzite in south-
facing bluff. The slate overlies
the quartzite. Similar to
that exposed 1/2 mile west
Strike E. & W.
Dip 45° N.

47736 100 N. 150 N. S. E. 34-48-28

Large knob of Serpentine rock just
north of C. & N. W. Ry. from the
south side of these rocks

47737 100 W. 225 N. S. E. 34-48-28

A more schistose phase of these
rocks

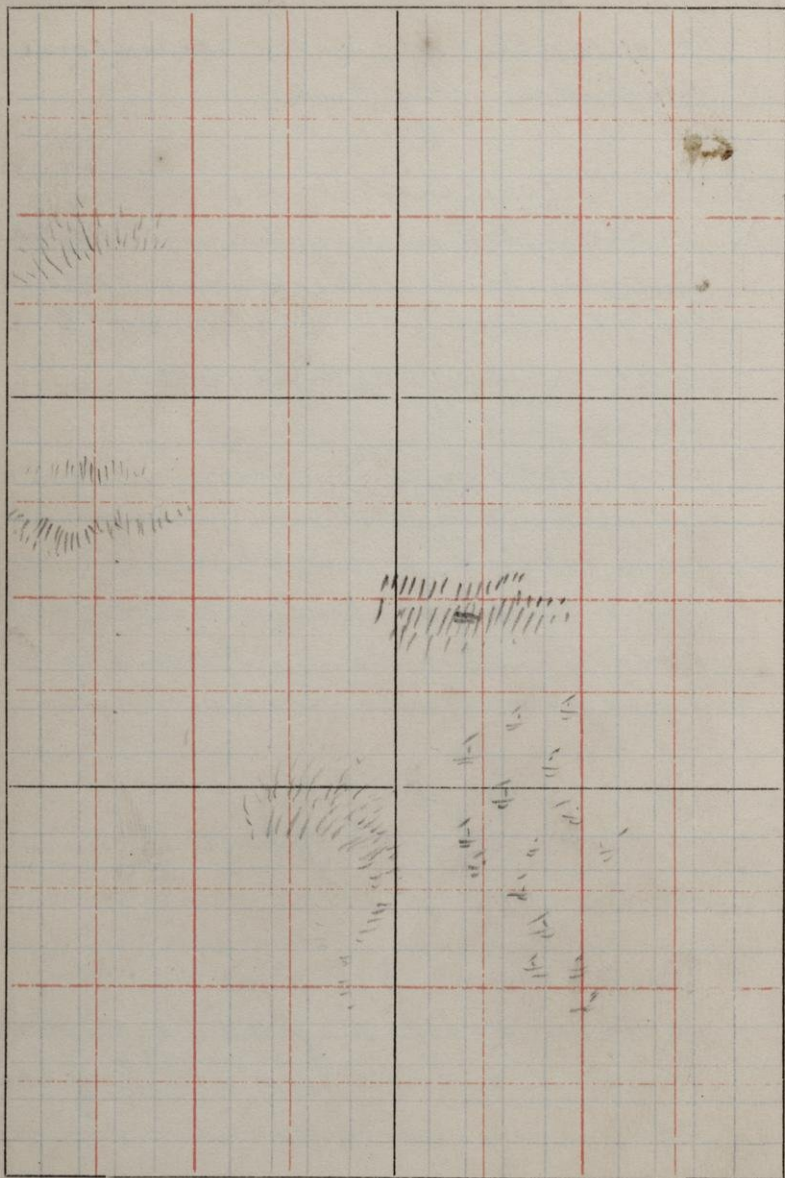
47738 320 N. 100 W. S. E. 34-48-28

A white weathering band or dike
it was is exposed for a width of about
8 ft.

D. X. 10

T. 47

R. 28



47739

700 N. 600 N. S. E. 34-48-28

A small ledge, just rising above
the surface, of this "serpentine rock"

47740

1500 N. 1800 W. S. E. 2-47-28

A low ledge of slate exposed at side
of wagon road

Strike 10° N. of E. Dip about 90

47741

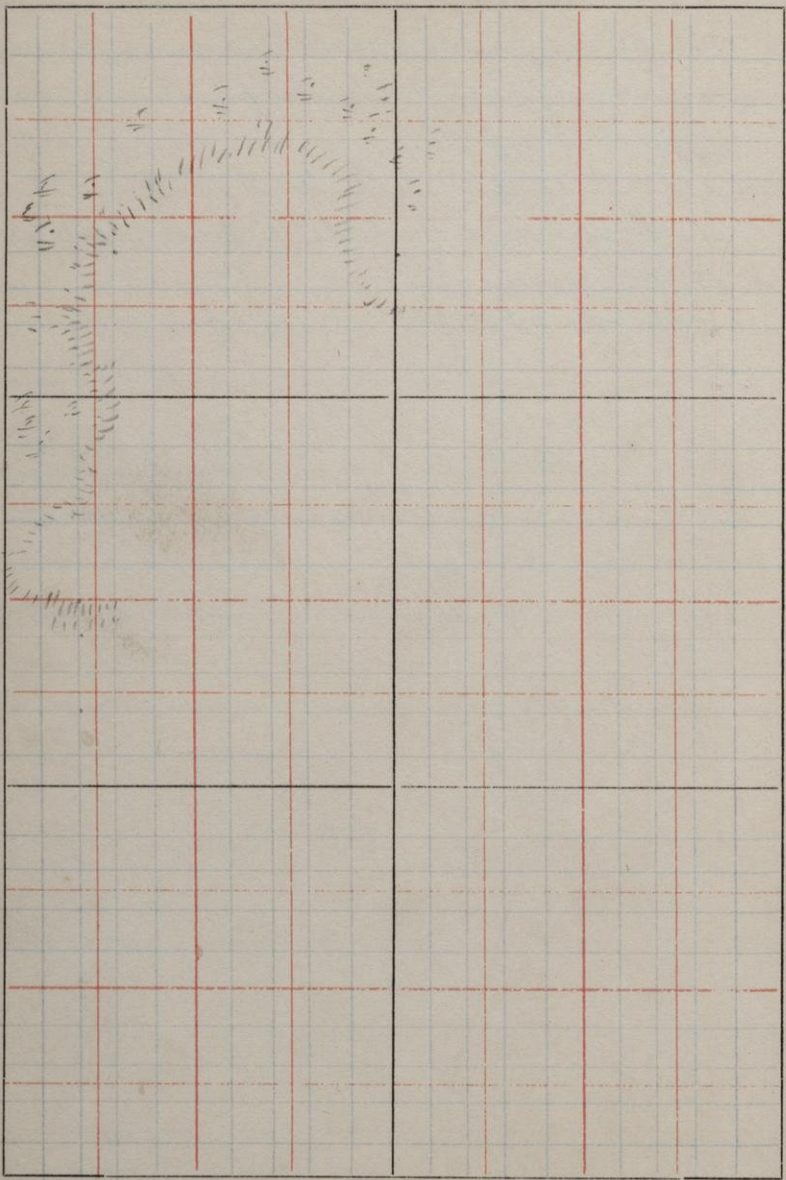
10 N. 1060 N. S. E. 35-48-28

A small knob of peridotite similar
to those rocks found to the west
in this range

№. 10

T. 47

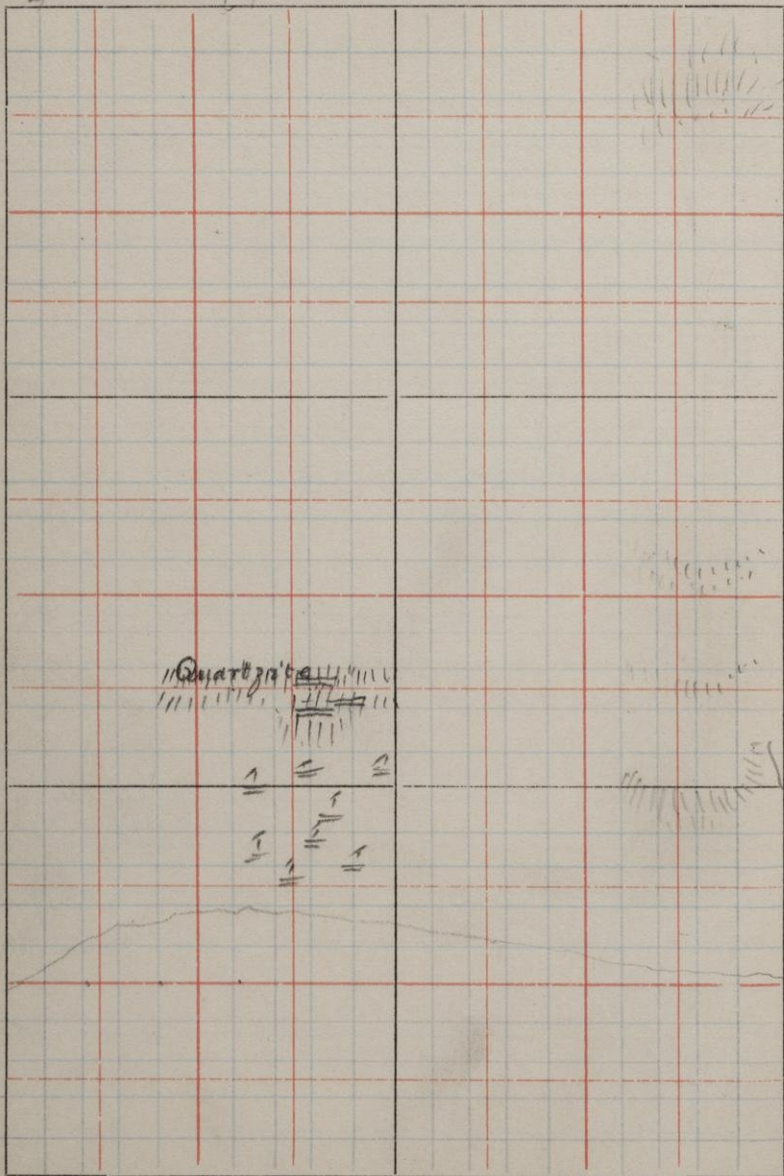
R. 28



S.E. 1/4 10

T. 47

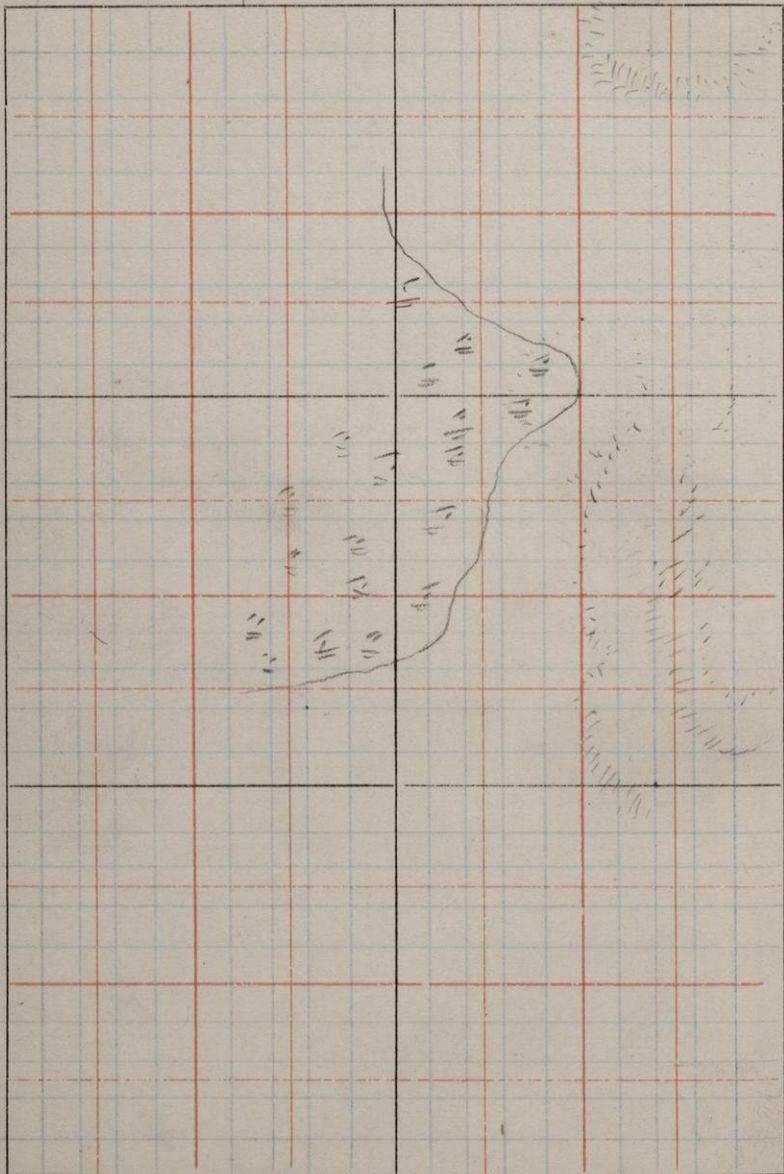
R. 28



71.8. $\frac{1}{4}$ 10

T. 47

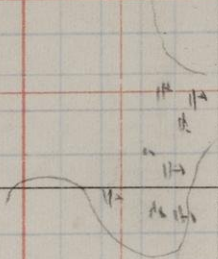
R. 28



D.B. 43

T. 47

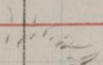
R. 28



The surface along this line is rough
heavy drift hills timbered with dense
2^d growth No exposures seen

71.8 1/2 3 T. 47

R. 28

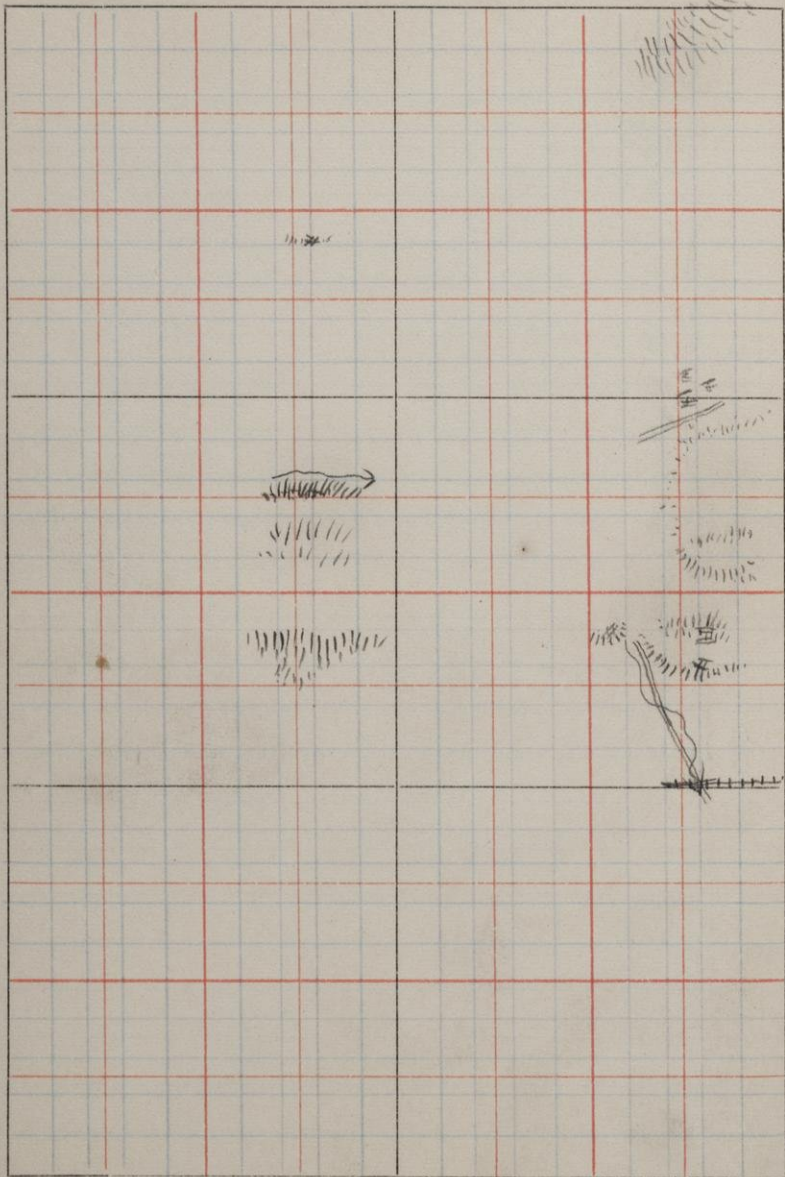


Surface same as south half of
section. Some large conglomerate
boulders were noted.

S. E. 34

T. 48

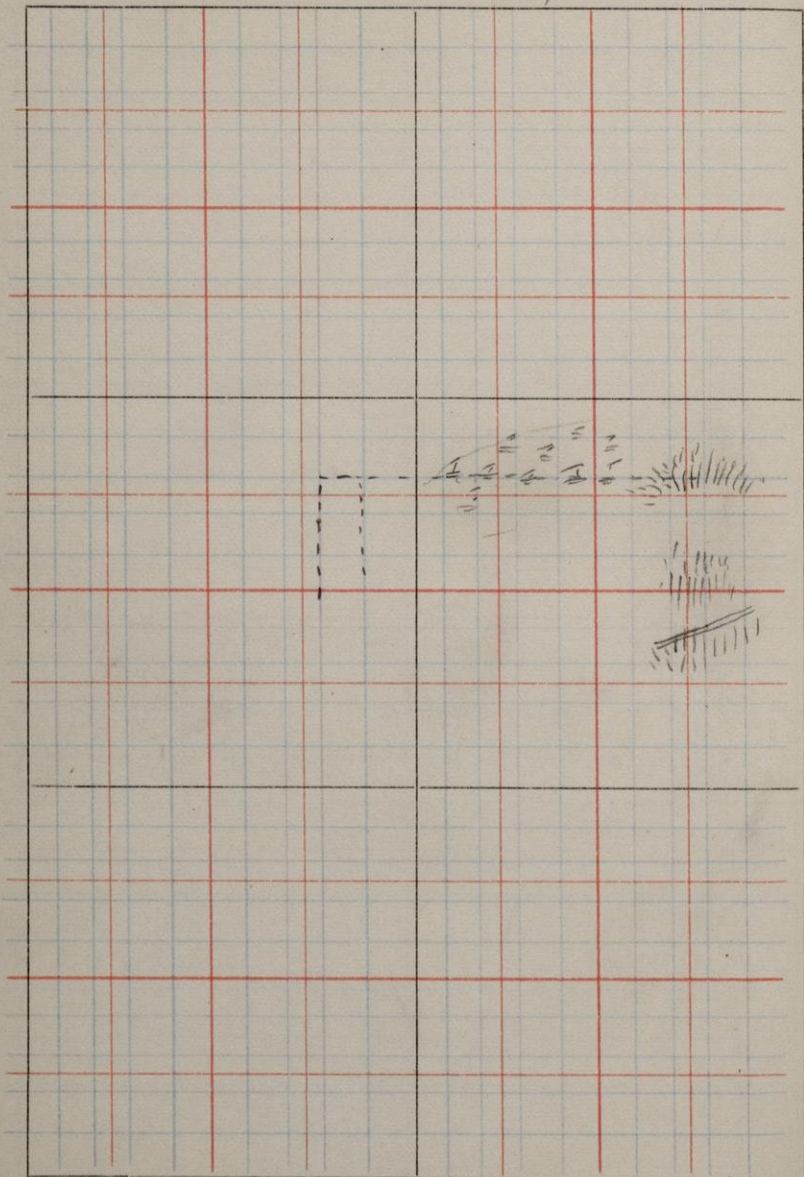
R. 28



N.E. 34

T. 48

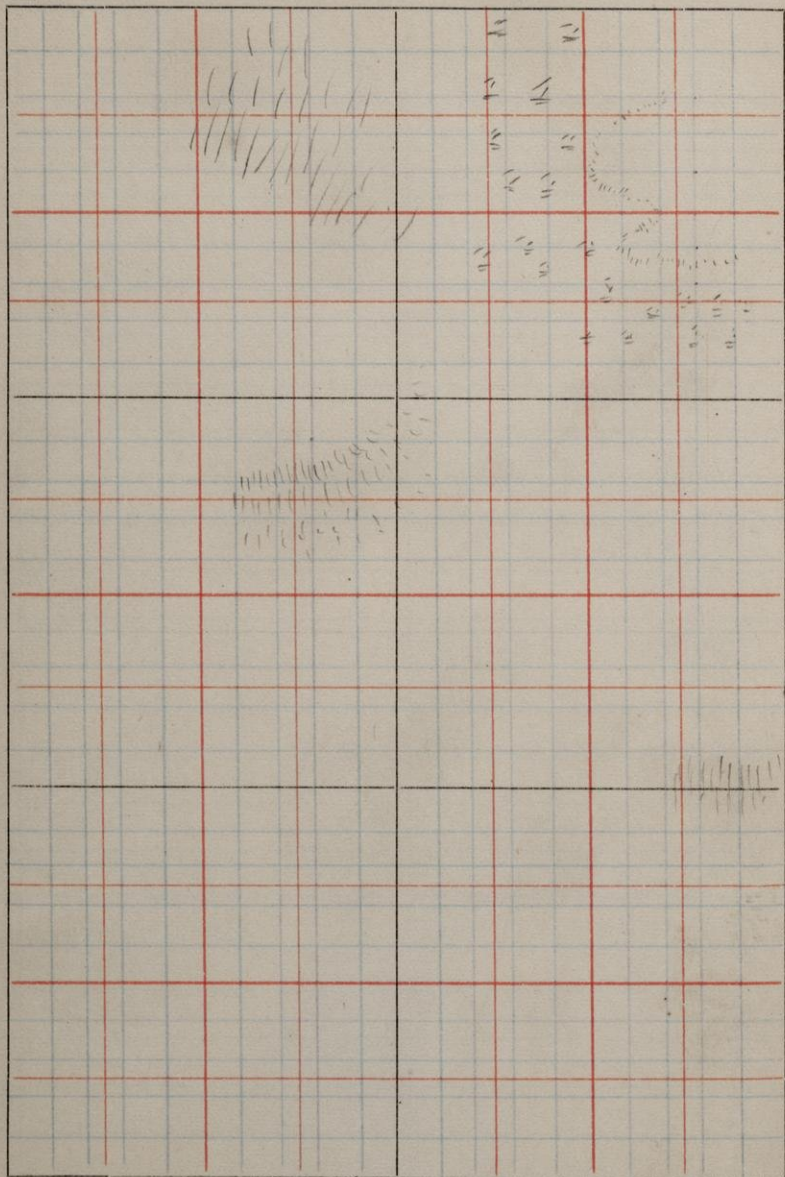
R. 27



D. 7. 14

T. 47

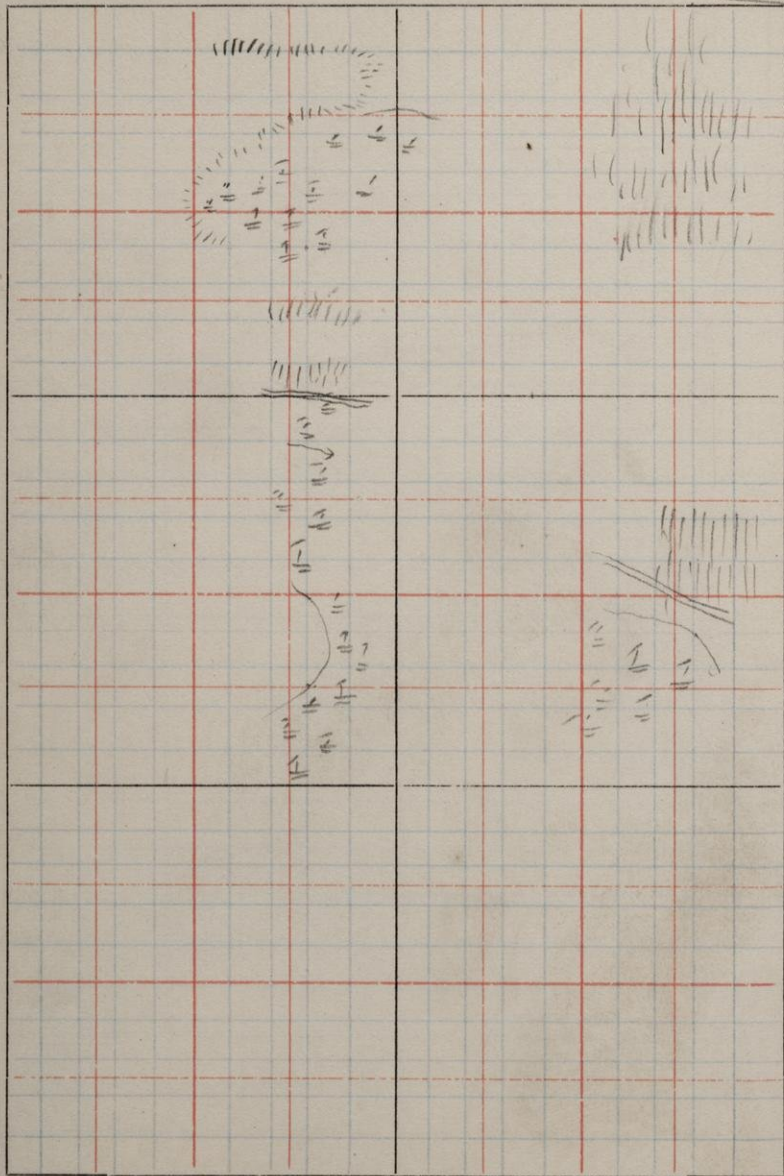
R. 28



M. 11

T. 47

R. 28



D.M. 2

T. 47

R. 28

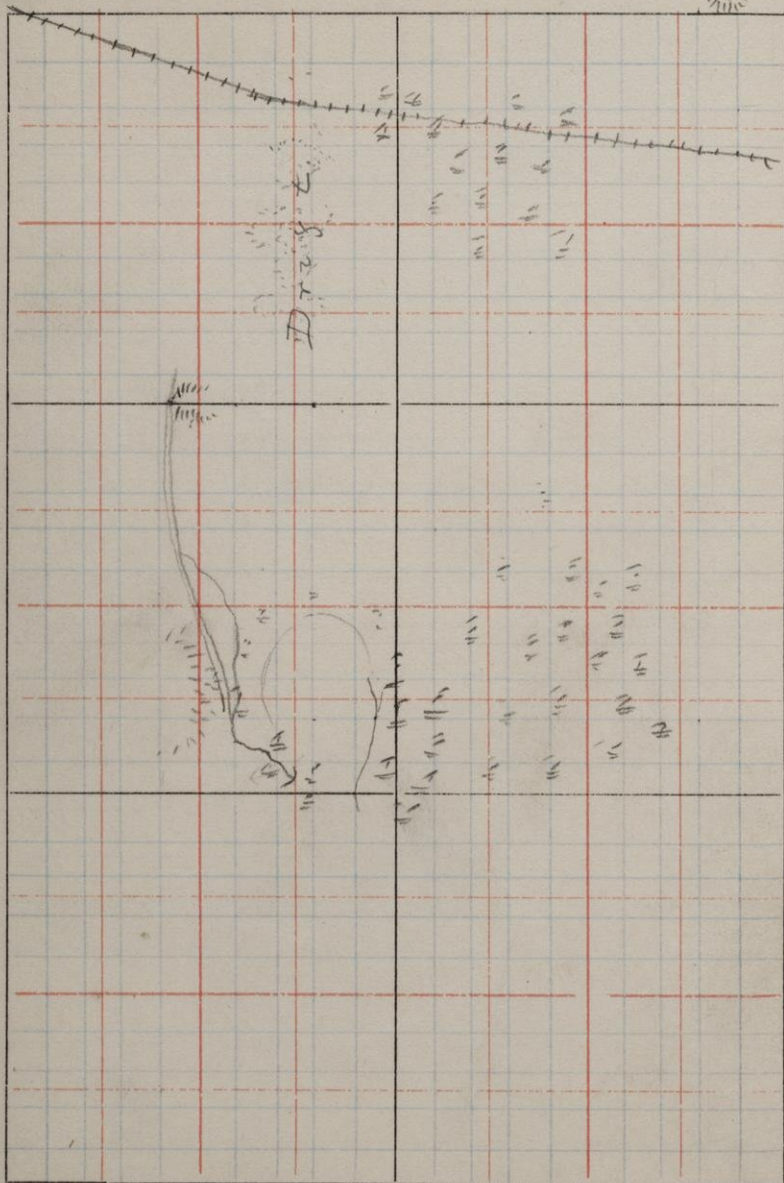
Level

Low drift hills descending
east to swamp

21.26 2

T. 47

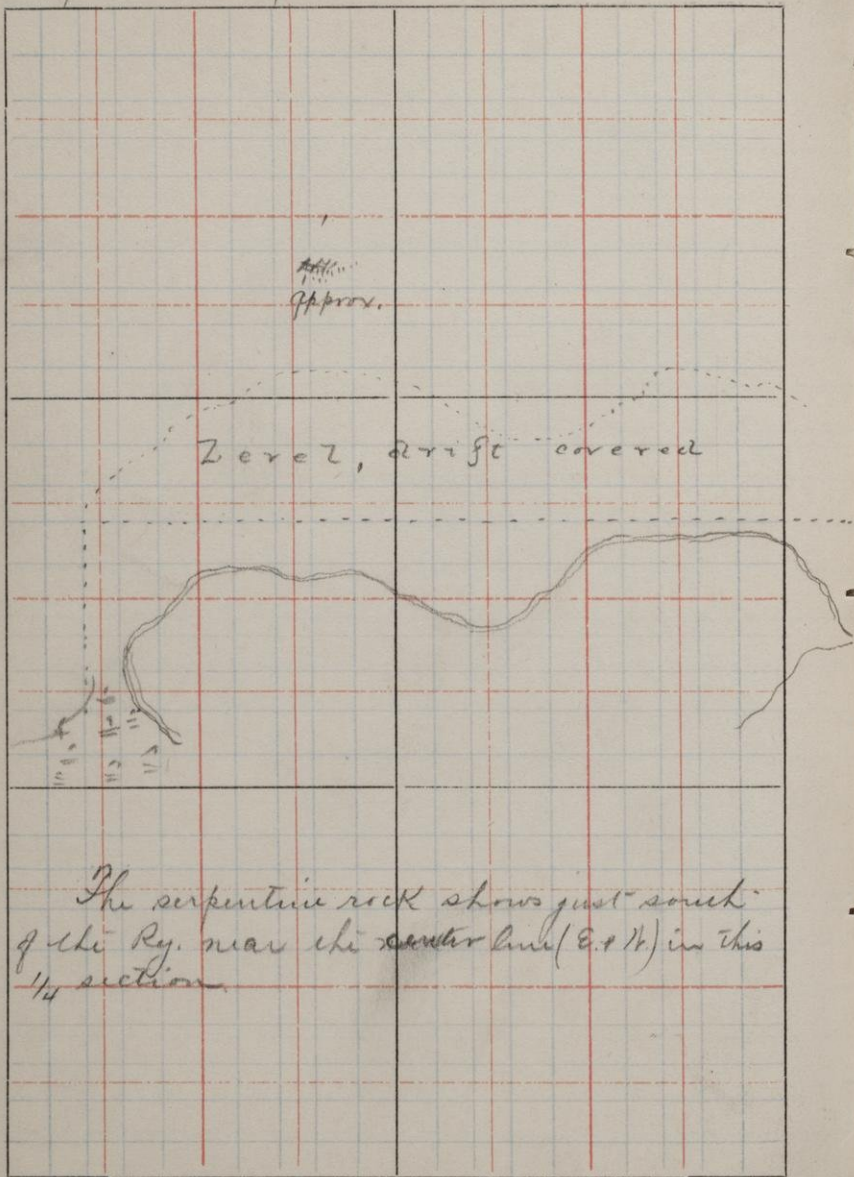
R. 28



N. E 44 2

T. 47

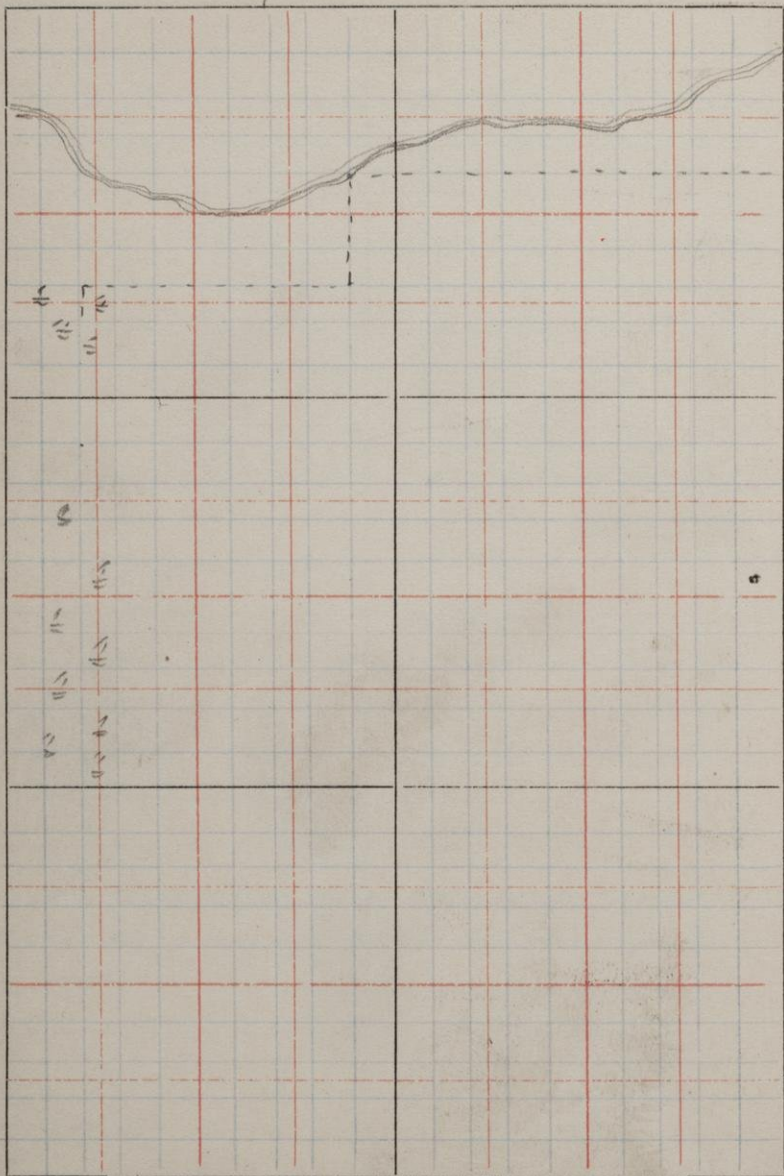
R. 28



S.E. 2

T. 47

R. 28



5
4
3
2
1

5

4

3

2

1

4

3

2

1

5

735
935
1270

735
825
1560

660 E.
385 S.

W. N. Merriam
314 Langdon St.
Madison
Wisconsin

