

## Marquette region, Michigan: [specimens] 22634-22678. No. 142 1892

Mathews, Edward Bennett, 1869-1944 [s.l.]: [s.n.], 1892

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## U. S. GEOLOGICAL SURVEY FIELD SECTION BOOK

142

Marquette Region Michigan E.B. Mathaux

22634-22678

## 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 crosshatching 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 lefthand side of the page. The ruling of the left-hand pages is also arranged so that, if desirable, a larger or a smaller scale can be used, eight inches, two inches, one inch, or 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, the latter always being expressed from the north; for instance 4025, 250 N., 300 W., Strike, N. 78° E., Dip 50° S. Then follow with a full description of the ledge. 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. 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 x 2 x x inches will be allowed, but in all other cases large-sized specimens, trimmed to a size of 3 x 4 x 1 inches, must be selected, in accordance with section 3, chapter IV, p. 44, Regulations of the U. S. Geological Survey. 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. Specimens may 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.

#142

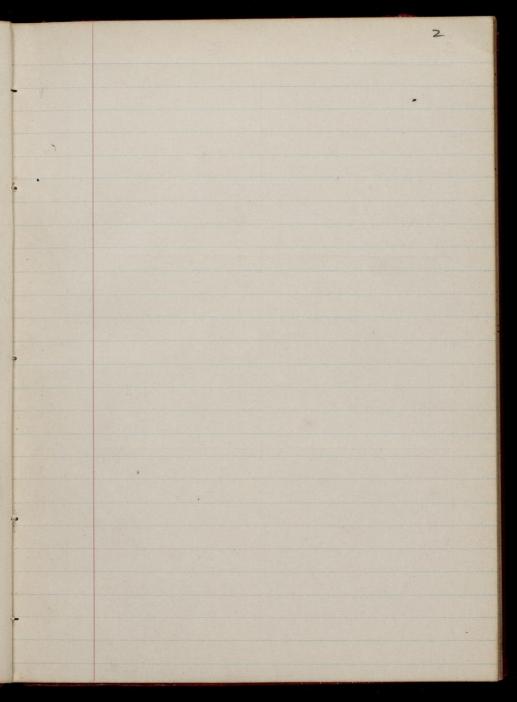
"Silver Larke Road" S. 3- J. 48 R. 26

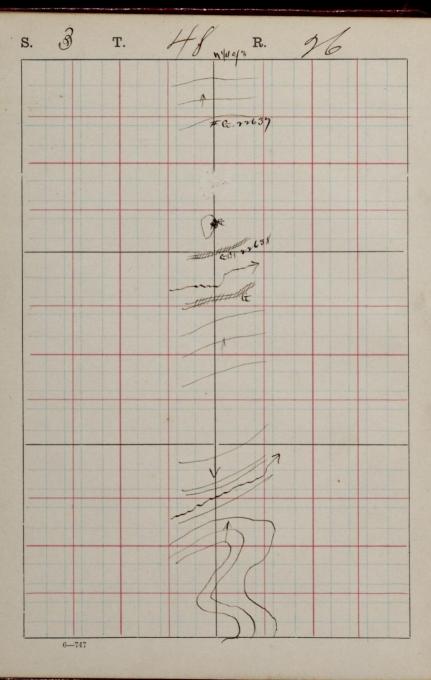
Location of Nead River in reference to 1/4 Line of S14-148 R 26

The hills when "named" are composed of the rocks indicated. These hills at the present are not all bare outerop, but in my opinion fires and rain would reduce them to that state. Such was my plan in sk sketching -- i.e. when ledge signs in almost all cases would obscure the contouring by their abundance I used the name of the hill. In such cases the ledge usually extends to the contour above the gradual slope. My contouring was based on 10 foot interval and to this I tried to adhere strictly. The aneroid was not always trustworthy, and, as I had no bench marks, only the minor shape of the county, not it's gradual slope, is trustworthy. If a hi hill was X(10) plus 5 feet I called it (X plus 1) (10) feet.

J. T. 4/8 26 R. S. 747 (B) 再是(B) E 22634 AND A C 14 x 7 1635 6-747

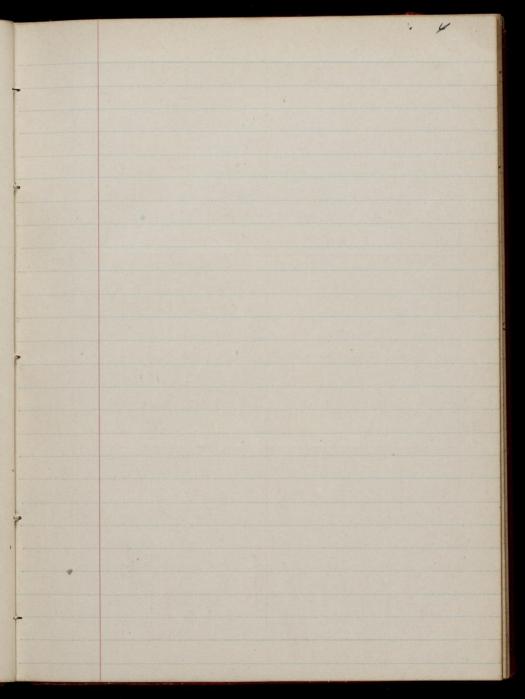
27634 1610 2 SE cor 5 # 27634 Coremston 27635 900 2 SECOTS#77635 Corecuston 27636 Just north of the SE cord. #77636 Greenston hast outerop Jang sort muy south to Dead River. s. 5+8 T. 4 8 26 R. Gently Sloping Grab 36 Grass covened Hathand Kilys Dead Riven 6-747





Greenstone exposed by fallentree. 47638 1500 21 1000 W SE cor 3 # 2763 Greenstoud? I if so very siliceous

s. /0 T. 44 R. 26 What the west the 14 Centra 30 6-747



S. /0-/5 T. R. Camps com 39 yeten Graniti Small Crack 6-747

about 950 w SE corlo Ou the side of the road at the time northwest a small outerop of hombludie greenstone grante orderops all the way from about joo wo of comer. No grande was found when Whr. Ploninger locates some in the SE of the Sw 6/4 0/10. I may not have gow west for Enough but went- buyond the place marked by him. His location of the Druk I believe to be wrong. When he made his survey The conditions must han hem better in This locality for him Than it is now send it is now covered with a second crowth which must have starled at or since his line of survey

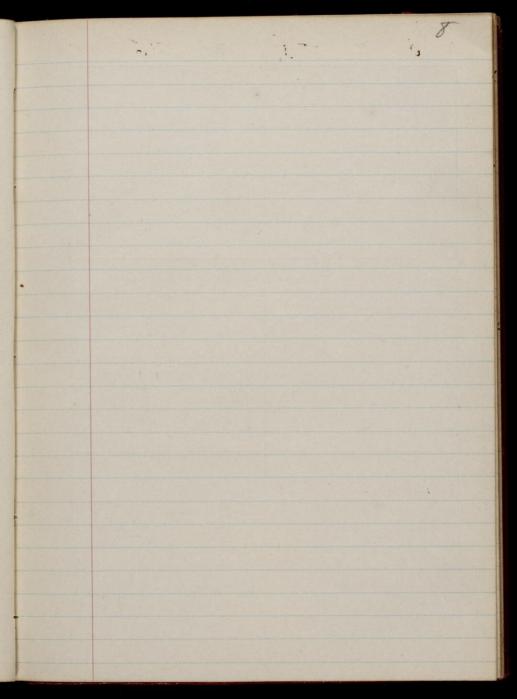
T. 48 S. /0 R. 26 HALLY Grant Practically one Continuous ledge Secon The Probate 6-747

7 2640 1870 2 Secor15 # 7 2640. Coranite The not of the land to the river seems to be a saudhill without outerops. 2464/ 1910 H Steor 15# 27641. Dylee of distance in the grante which at this point is very much broken and more liable to disintegration, it seems, all the grant is much like the red grant found south of the Dead / Civer.

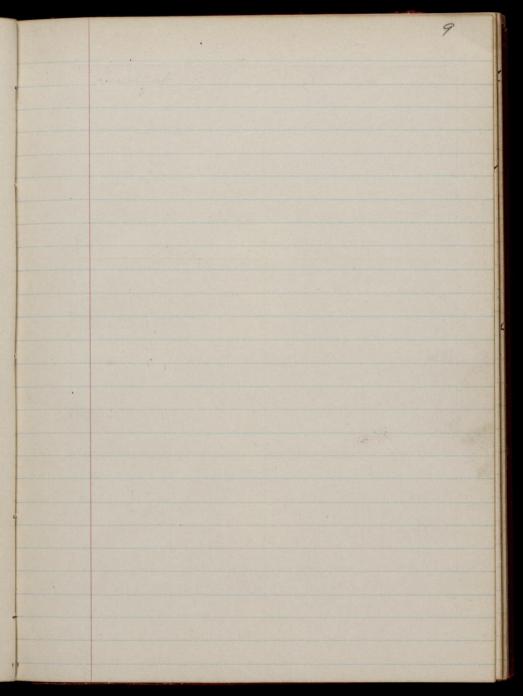
R. 26 T. S. 6-747

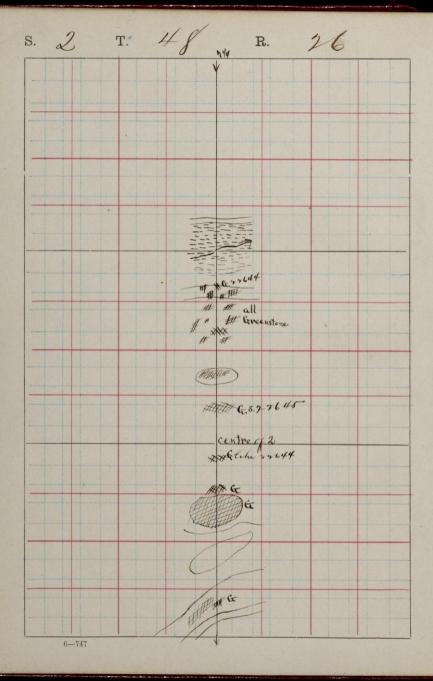
1510 x 15 w Scev10 # 27642 First outerop of greenstone since leaving the granite. Everything beliveen is heavily dist-covered This rock has welleded withing I Those peculiar masses which combined with to general. appearance give the supression of the combination of an I igneous and a sedlmentary 1975 2 75 E SECON10 # 77643 Greenstone. The selver habe trail " shown on the What I map to be at the Ze E cor of 10 is in reality 765th of that-When it crosses the section

s. 3 T. 48 Generally Level Country 6-747

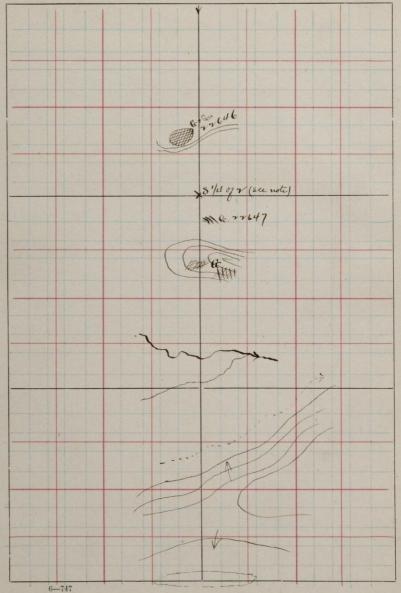


T. 44 R. 26 S. " silven halfe Road" Low hevel hand Connen 6-747





Rung couth on Nos quartirling 2, 11+14 17644 14102 1000 secor 2-48-76. # 77644 Low outerop on the side of a hill of 27645 1100 2 1000 W Se cor 7 # 77645. Banded arcenstone schiet.

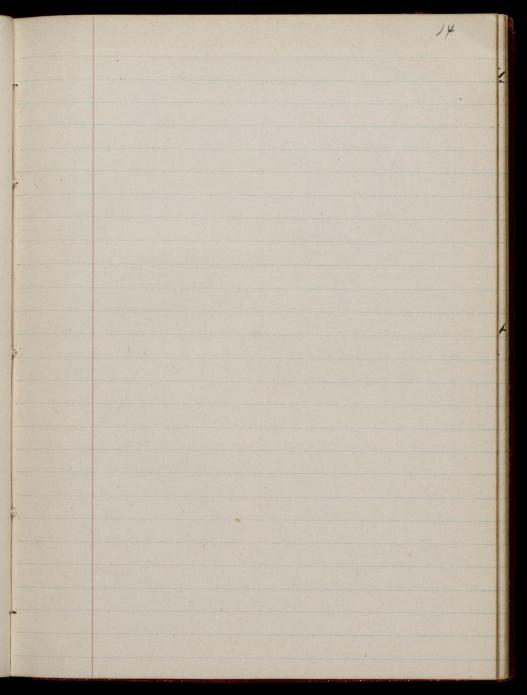


170 W 10 30 W Sc corz # 77646 22646 Corcenstone and grante breacia (?) It seems as though then must han been a confilered muxtim of the two rocks and that subsequelty the two were semultaneously bricuated There is a good exposured but I could make nothing out of t structurally. 77647 1960 u 975 w s cor 11. # 24649. Pyritiferous greinstone. 20798 and 25 W 6 8/4 from 21/4.

Thise were not located exactly but were about 750 5 of the 5/4 of I from which point we began July a guarterly course Sw. The crawle at the point examine was in lesser quantity than the greenston. # 72648 represento the greenstone while # 77649 represents the granete. The latter seems to be whusin the former.

s. /4 T. R. Plains 6-747

1775 2 1450 W S Ecor 14" Coramite outerop represented by # 7 765-1 in which is what seems 27651 to be are nuclusion of # 77650 In all my um Southwest & Sound Hot a suigh outerop Though Rowinger makes several granite knows. These may all be there and could prehaps have her seen at the time he wade his survey - all apparently was cleared then but now all is covered with a second growth about lin feet high so Thuch that only the area actually traversed can he seen and sometimes not all of thats. 14 T. 48 26 R. \* Stoke Bead River 6-747



27652 4552 SECOTII # 22652. Corcenstone - small outerop. 27653 10752 80 E Secor11 #79653 Execustone schist- very slaly. S. 1/+2 T. 48 R. 26 A 6 MANUEL G E 72655 Secor 2 1 WHITE GS VANIAMINITE ES 130 C.S. 226-4 Hillmuntes and a second

6-747

27654 1465 U808 Secor 11 # 22654 Falcon greenschiet which has been explored for gold without success. corcenstone vidge.

T. 48 s. 2 R. 26 6-747

77656. 900 n S E cor 2 # 28656 Paralles outerops of greenstone (2765) 1300 n S 2 cor 2 # 27657 Greenstone with small dyle of granti.

S. 3/ T. Hogback Intel R. 25 Gen K 100 EV 22658 MILLERY Sycon 6-747

July 8th Running north on west range him 949.8 200 u 3 Ecor 36-49-26 # 22658 77658 Coramili-

1580 W Secor 36-49-26 # 27609 Lahren from the top of a high ridge or boss of graniti sometimes called "Hogback Wit. On the lop of this ridge the U.S. Lake (3) survey. 350 u secor 75-49-26 # 27660 27660 representing a dylar of distance in the granite The trand of the dylar is about 8 to while its width is 200-750 gest. 800 u Secor 25-49-26 # 27661 27661 Coramili.

s. 30 T. 49 R. 26 Granite 6-747

27662 1810 WS reor 19-49-75 # 27662 representing a low outerop of diabase 125 x 1875 w SE cor 19-49-25- #27663-4 27663 This is the begung of a large outerop 27664 of + 27663 in which are numerous publish fine-grained grante dykes. In certain places in the orderop are found patches of much coulorled chlority-nica schist. This seem to bear no constant relations either to the main rock or to the grante dylive They also seem to trend in no particular dirichous - liter du grantie glykes. They are represented by specime 77664

S. 19+30 T. 49 R. 75 6-747

370 2 1000 W Sacor 19 # 72 665 is 22665-1 a representation of the guess of which The whole till is composed. # 77666 gives the character of the main wass of a diabase dyle which cuto the grees in a WE+ Sw direction, This dyke includes within itself at our point are augular fragment of the adjacent queis. The contact between these too rocks is shown in 7 7669 andit may be riolized that the where roch is at this point almost sutirely different from that shown in 77666 and Get-they were taken from points but a few feet apart.

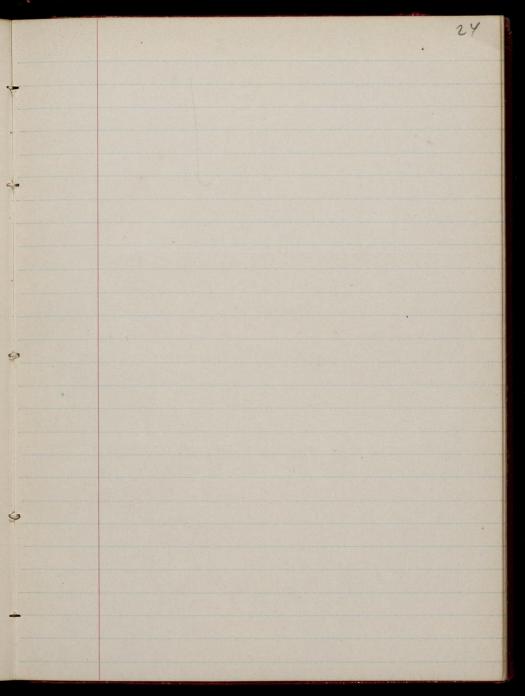
S. 30 T. R. XXX XX XX XXX = alloutenop Diabares ~ 7689 Diabase 6-747

24668 1210 × 1000 w SECON 30 # 27668 show the grante from the wester which extend some distance castivard. Drabase dyle in granite.

s. 3/ T. 49 R. centre of 3) meadow 6-747

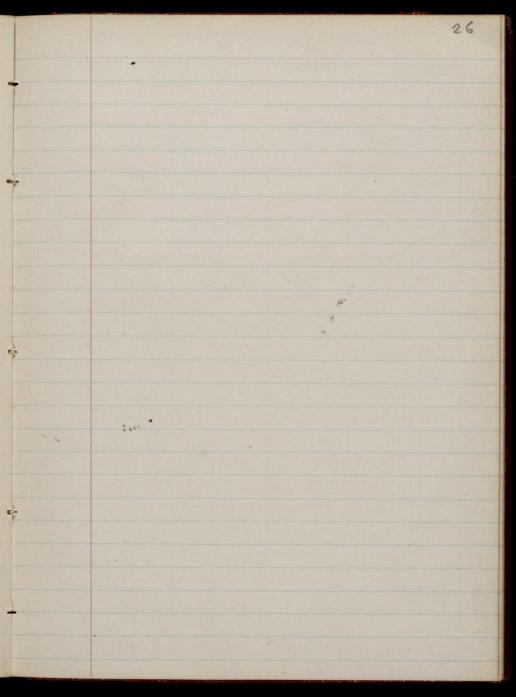
1450 % 1000 W Secor 3/ # 25670 Very chloritie granitie rock which, however, I don't consider granston

s. 3/ T. R. Dryt Covereta X1/4 stake. 6-747



S. 3/432 T. R. 25 Diahare, Pond (Cocamerte) Cedan Catherine Culting Con Can the line of the control o 6-747

22671 at SEcor 31-49-25 # 22671 Coramti. al-Secor 31-49-25 = 27672 27672 Corcenstone ? What appears to be a large inclusion or dy he in the graniti. No disect-contact was 14702 Secor31 # 22673 22673 Explorer pit on top of a ledge of some very pyrtificous, fasic empline which weathers like. a diabase (brownish) but is a little different, having an entirely different structure. all hills an outerops of grante and generally the intermediate ground is also unless it is marked swampy

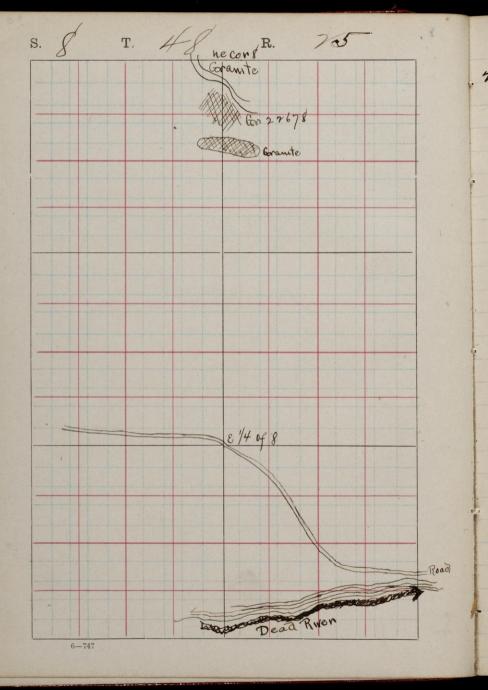


R. Lake Superior 6-747

closed to west of centre stake.

S. 32 T. 49 R. an Intricate mass of Diabase dykes + Granite Santa Head Road Sen Diains 6-747

S. 4-5 T. 48 R. 25 Sand Plains Conanite 81495 Cor 27677 Geranite Tanda nach Pante



77678 1875 n Secor 8 # 22678 low outerop

