

Mesaba [Mesabi] IV: [specimens 45065-45513]. No. 358 1900

Leith, C. K. (Charles Kenneth), 1875-1956 [s.l.]: [s.n.], 1900

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U. S. GEOLOGICAL SURVEY FIELD SECTION BOOK

9-891

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 2½ x 4 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. Notebook No. 358

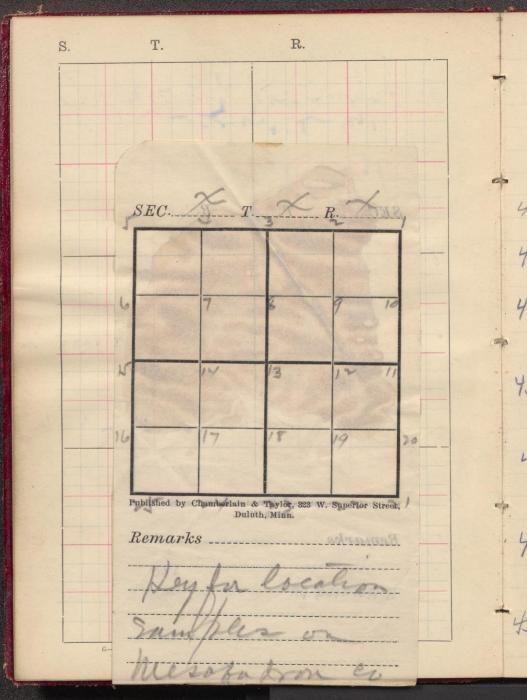
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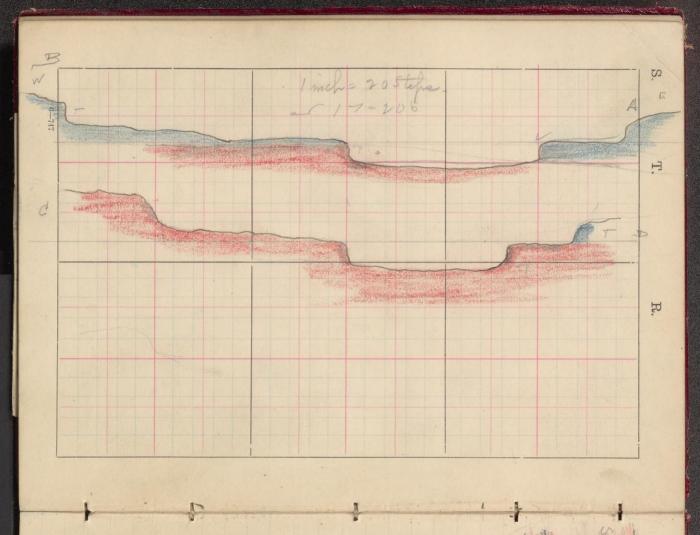
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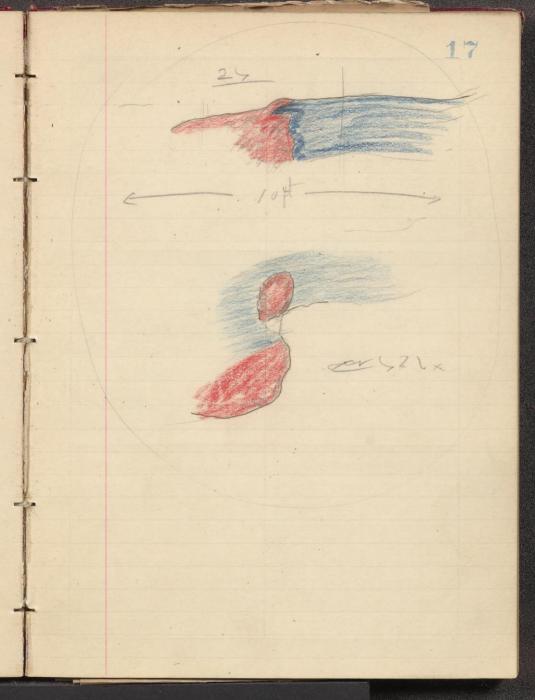
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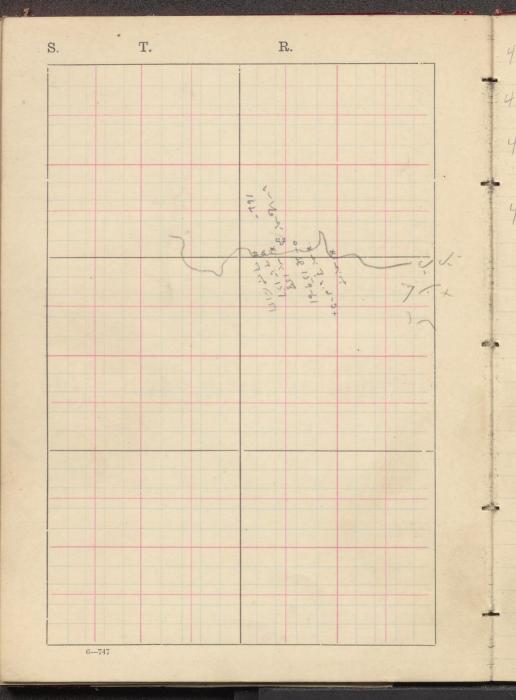
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Northwest of Mesaba Station.

Then running north the graywacke was examined with reference to its metamorphism in approaching the granite. It is found to become very much metamorphosed.

Beginning at 283 north numerous exposures begin to appear which may be followed to 300 north.

1 handyd 45400 and 45401 are collected in order from south to north.

45402. Specimen of granite 400 north, 100 west.

580 west, 385 North is a ledge showing beautiful granite with the Lower Huronian sediments. The granite is on the most at the sediments. The relations are clearly those of intrusion. The solid granite on the one side is separated from the solid slate and graywacke on the other by about 8 feet which is neither one or the other, but a most intricate mixture of the two. See sketches. Injection is a most minute one. Layers of slate in the granite vary from a fraction of an inch to several inches and same can be said of layers of granite in the slate. The granite also cuts across the slate layers in a subordinate way, and both are contorted. Near the contact the graywacke series could not be distinguished from a schist derifted from igneous rocks. There is no sedimentary texture left.

Further examination shows that the granite stringers are found to the southern when it of the exposure. However, in an exposure about 20 paces to the south the solid slate and graywacke are found. In this exposure the rock is very much contorted and broken up.

45403. Specimen of the solid granite which is a few inches from the contact.

45404. Various phases of the contact rocks, some of them being partly granite and partly slate.

I Landyd 45405. Phases of the slate close to the contact.

45406. Another phase of the slate a little eastward and from the south side of the exposure.

45407. Slate, contorted, from the south exposure.

Running north from the road on the east lines of sections 21, 16, and 9 of township 59 N. R. 14 W., Mesabi Range.

No exposures until a point 1300 north in 16 is reached, where typical.

there appears beautifully banded graywacke and slate: They are gently folded and the strike varies somewhat. As an average, however, it runs about n. 80° E. The dip is to the south at 70°.

- 45412. Siliceous, light colored and white weathering phase.

45413. At 1400 north is an intermediate rock intruding the graywacke and slate about 25 paces across. Is this associated with the granite? The graywacke and slate on the north side has the normal strike and dip.

- 45414. At 680 north is graywacke which becomes micaceous and hornblendic, however still banded. Strike and dip the same.

45415. Just N. E. of the corner. Sediment or green schist (?) probably sediment.

At 50 steps north of the quarter post in 9 is a high exposure of granite rising out of the swamp on the north side of which is much micaceous, hornblendic and schestose sedimentary material which has been injected by granite. The contact is almost a sharp one and is clearly an intrusive one. If found alone one could not say that the schist is a sediment, and it is possible that it is not, but when traced from the south there seems to be little questionabout this.

45416. Specimen of schist next to the contact. Fraction of an inch.

45417. Specimen showing schist and granite.

45418. Granite.

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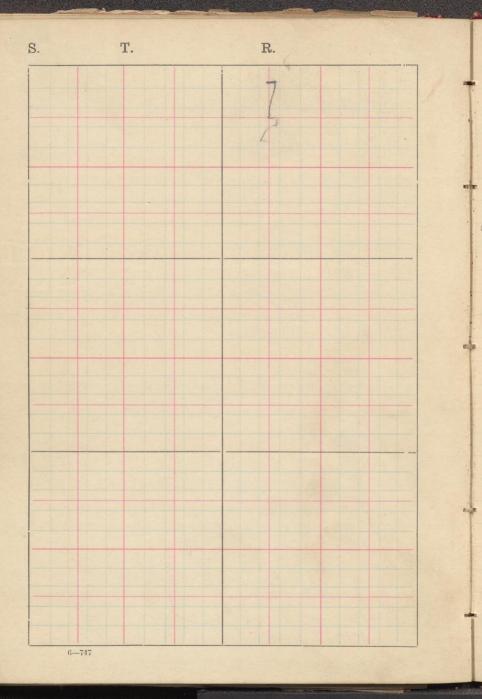
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