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Lake Superior general, 1904: [specimens] 46128-46999. No. 399 1904

Leith, C. K. (Charles Kenneth), 1875-1956
[s.l.]: [s.n.], 1904

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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 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 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 $2 \times 2\frac{1}{2} \times \frac{1}{2}$ 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. 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.

Specimens 46128-46999.

1904.

Notebook No 399.

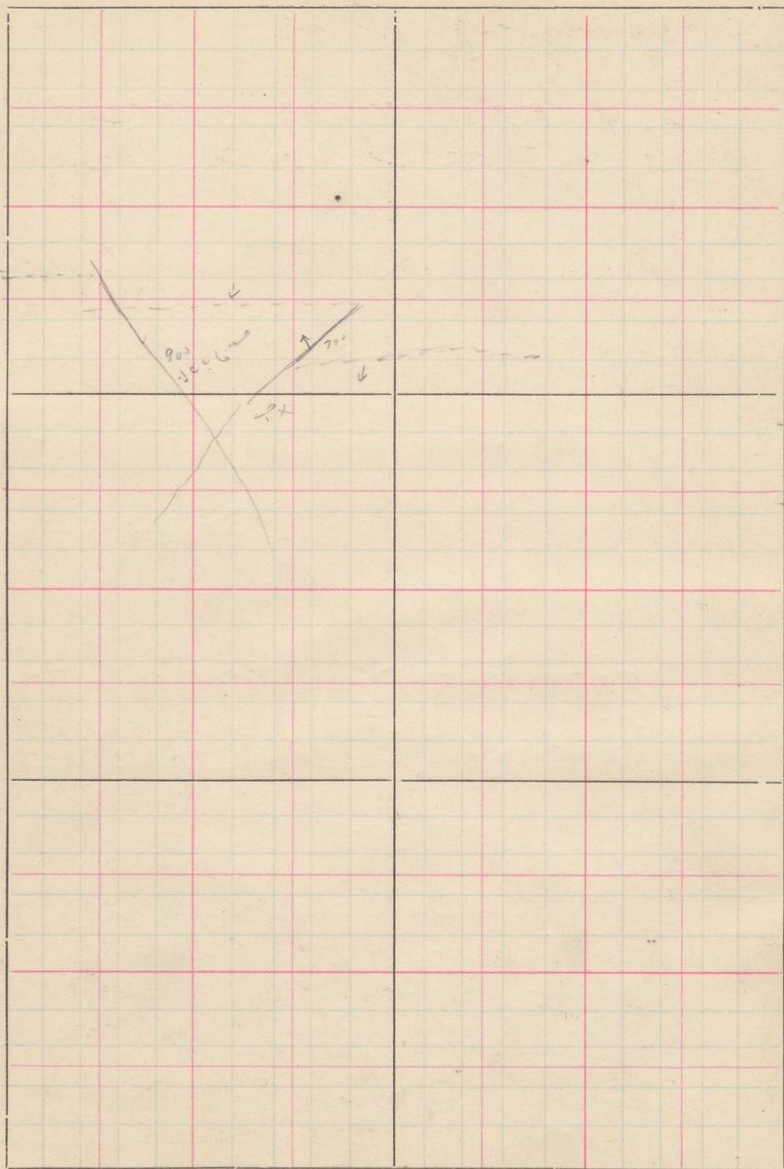
C. K. Leith.

46128-46135
46191-46237

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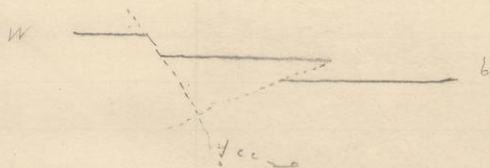
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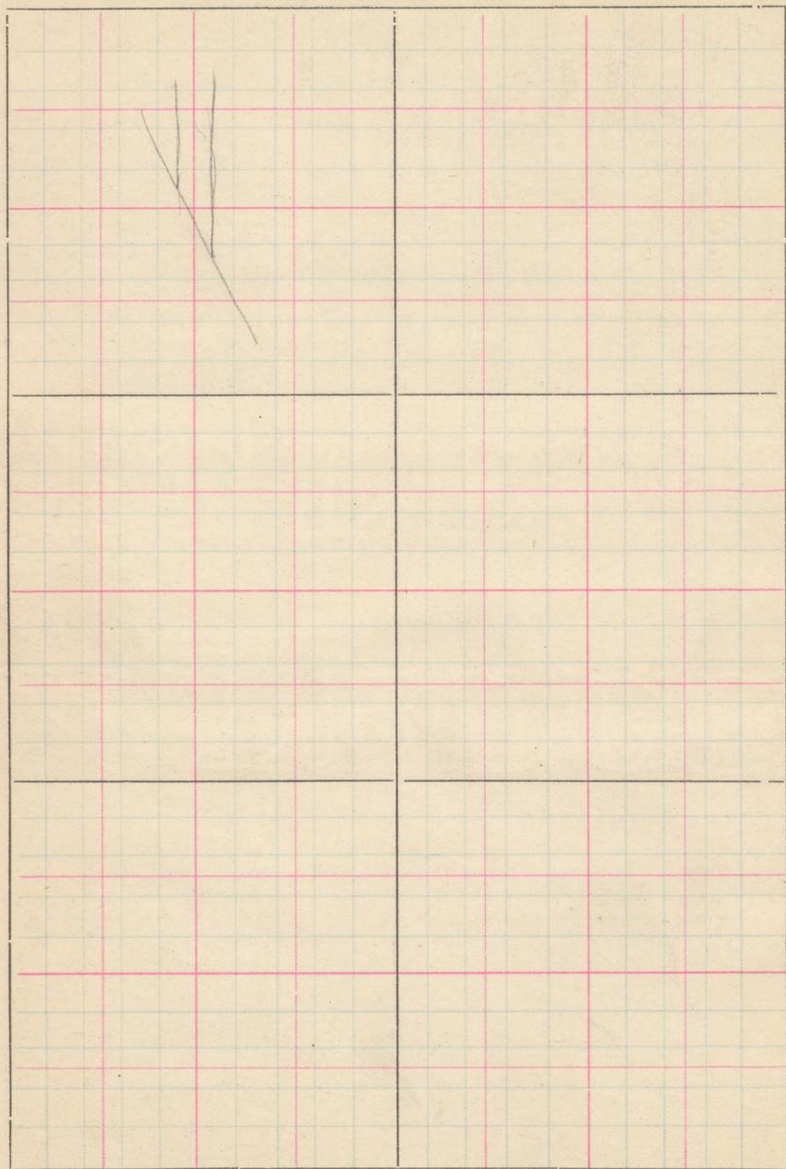
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46191 Specimens of ferruginous slate from
46192 south of Newport mine, Gogebic Range,
46193 showing beautiful fracture cleavage.
46194

46195 Ferruginous chert from the palms mine
showing greenalite. *Good in sl.*

46196 From outcrop of slate just north of
46197 town of Bessemer, supposed to show
46198 greenalite granules. *Slide, good.*
46199

46200 Manganiferous ore from south of
Newport mine.

46201 Specimen of the gouge at the fault
in the north side of the Biwabik mine,
Mesabi range,

46202 Peculiar phase of iron formation
running high in iron from Fayal mine.
To be determined.

46203 Fragmental looking iron formation
material from Soudan.

46204 } Pyritic banded jasper from Schultz
46205 } claim southwest of Iron Mountain.

46206 }

46207 }

46208 }

46209 }

46210 Ore from Schultz claim southwest of
46211 Iron Mountain.

46212 }

46213 }

46214 }

46215 }

46216 Carbonate ore from east side of Woman
River.

6-2-0-2-4
↑
m-2-4
6-2-0-2-4

790-5-1) 150000x

- ① 100x
- ② 100x
- ③ 100x
- ④ 100x
- ⑤ 100x

- ② 40-140x 150x
- ③ 100x
- ④ 40-140x 120x

46217-
46224
Dunwood.
See opposite
page. Also
plot to L
sent in by
Cuyler Adams.

| | | | |
|---|---------|-------|------------|
| ② | 154 ft. | 48% | #1 |
| | 175 | 52% | |
| | 179 | 48.69 | |
| | 183 | 44.88 | 266- 25.00 |
| | 193 | 43.0 | 280 28.00 |
| | 196 | 28 | 288 29 |
| | | 28 | 298 31.47 |
| | | 27 | 304 44.35 |
| | | 31 | 315 29.12 |
| | 230 | 28 | |
| | | 29 | |
| | | 47 | |
| | | 29 | |
| | | 39 | |
| | 446 | 39.97 | |
| | 253 | 35.28 | |
| | 261 | 37. | |

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28.84

168

39.12

181

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204

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203

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⑤ 183 2 19.70 55
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 203 14 = d
 216 11
330

26

✓ 6x

197 ✓ 2x

✓ 2 - ✓ 2x

④ 100 - 68 - =
 124 - 2x
 134
 164
 216 sl. v. 2x

④ -226 < 39.81
 297

④ 204 < 58.16
 230

④ 245 537
 171 - 2
 < 2x
 192x
 245 w 2h L 6x

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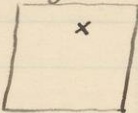
✓ 6x - 6L - 11.5, 1.8
 85 < 47.15
 117 46.5 w 2x

1, 2, 22.5
 2x

245 - 50
 158 - 46.52
 67 7?

$\sqrt{2} \approx 1.414$ $\sqrt{3} \approx 1.732$ $\sqrt{5} \approx 2.236$ $\sqrt{7} \approx 2.646$ $\sqrt{11} \approx 3.317$ $\sqrt{13} \approx 3.606$ $\sqrt{17} \approx 4.123$ $\sqrt{19} \approx 4.359$ $\sqrt{23} \approx 4.796$ $\sqrt{29} \approx 5.385$ $\sqrt{31} \approx 5.568$ $\sqrt{37} \approx 6.083$ $\sqrt{41} \approx 6.403$ $\sqrt{43} \approx 6.583$ $\sqrt{47} \approx 6.856$ $\sqrt{53} \approx 7.280$ $\sqrt{59} \approx 7.681$ $\sqrt{61} \approx 7.810$ $\sqrt{67} \approx 8.185$ $\sqrt{71} \approx 8.426$ $\sqrt{73} \approx 8.544$ $\sqrt{79} \approx 8.888$ $\sqrt{83} \approx 9.110$ $\sqrt{89} \approx 9.434$ $\sqrt{97} \approx 9.849$

2d by 17

$\sim 7V \sim 8j.6 \cdot 6 \cdot 7V \cdot 6V$


SW SW 3-58-15

4622⁵
 4620¹⁷

100° L

45° T

35 ft h-x

46224
 46226
 27

$\sim 7V \sim 8j.6 \cdot 6 \cdot 7V \cdot 6V$
 $\sim 7V \sim 8j.6 \cdot 6 \cdot 7V \cdot 6V$

2d by 19 ~ 20x

$\sim 7V \sim 8j.6 \cdot 6 \cdot 7V \cdot 6V$
 $\sim 7V \sim 8j.6 \cdot 6 \cdot 7V \cdot 6V$
 $\sim 7V \sim 8j.6 \cdot 6 \cdot 7V \cdot 6V$
 $\sim 7V \sim 8j.6 \cdot 6 \cdot 7V \cdot 6V$

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 $\sim 7V \sim 8j.6 \cdot 6 \cdot 7V \cdot 6V$

46228

46229

46213

46229

46230

200 ft. in 29-59-14, Mesabi dist, Minn.

46231

From Animikie dist, Pt. Arthur, Ontario.

46232-

46237.

Specimens collected by A.R. Schultz in Canada, summer of 1904.

For locations see map by Schultz

46232 taken from A on map

46233 " " B " "

46234 " " C " "

46235 " " D " "

46236 " " E " "

46237 north of Rush Lake

46238-46241 *Pennsylvanian iron*. See Notebook 390.

46242

From Animikie area southwest of Loon Lake, Fall of 1904, showing carbonate iron ore and pseudo-morphs of greenalite granules. 13 slides. 46

- 46243 Ferruginous dolomite. Baraboo district. East end of valley
Collected by Oscar Rohm
- 46244 From base of Menard, Seal Lake Marquette dist., Collected by Wm. Smith.
- 46245 - Collected by C. Abbott. See letter to
46249 C.K. Leith Feb 9, 1905. See also
plates accompanying same.
- 46245 Vermilion diat. Minn.
46246 " " "
46247 " " " Zenith Mine shaft
No 2. depth, 1000 ft.
- 46248 Vermilion diat, Minn. Savoy mine
2d level near shaft. Slate.
- 46249 Vermilion diat Minn. Savoy mine
2d level. Altered greenstone in drift.
- 46250 - 57 next page.
- 46258 Limonite ore from Ellsworth,
Pierce Co., Wis. sent by Mrs. J. W.
Maier of that place. See her letter
2/27/05 and reply of C.K. Leith 3/3/05.

46250 - Ely trough, Vermilion dist.
 46257 Minn. Collected by C. E. Abbott
 See his letter of Feb 28, 1905.

46258 Limonite in limestone matrix
 Ellsworth, Pierce Co., Wisconsin.
 (See letter of Mrs. W. Maier 2/27/05.)

46259 altered phases of quartzite
 46260 Baraboo, Wis. Pres. by Oscar Rohm

46261 Lower Huronian conglomerate
 from Michigan. Collected on bi-
 ennial Lake Superior excursion of
 students in Dept. of Geology, Univ.
 of Wis. as were also spec
 46262-66. (1905)

46262 Altered garnet from Michigan,
 46263 Quartzite, Marquette district.
 Original fracture cleavage with
 flow cleavage superimposed and
 whole rock crumpled.

46264 Greenstone conglomerate from
 Michigan.

46265 Comparatively fresh Pokegama 33
quartzite. Mesabi Range,
Bivabik Mine (4)

46266 Altered Pokegama quartzite
Mesabi Range, Bivabik, Mine (?)

9-34x



