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Township 44 north, ranges 31, 32 and 33 west, specimens 30107-30128. No. 207 1891

Harriman, F. J.

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

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207

LAKE SUPERIOR SURVEY

Harriiman

draft

LAKE SUPERIOR SURVEY. INSTRUCTIONS.

Topography.—On the left-hand page map as much of the section as has actually been seen, counting each of the spaces between the blue lines as 100 paces, and 20 of these spaces to one mile, or 2,000 paces. The scale is four inches to the mile, and the heavier blue lines, outlining one inch squares, mark forties. Denote streams, lakes, swamps, marshes, etc., by the topographical signs annexed.

The geologist will consult with the compassman, and describe as accurately as possible, the timber traversed. When pine is found, give its proportion; tell whether good or poor, and indicate kind—white, norway, jack. If hemlock is found, note the relative amount. In hard wood districts, designate as good or poor, heavy or light, and indicate predominant kinds, oak, maple, birch, etc. Cedar swamps, spruce swamps, tamarack swamps and meadow swamps will be always discriminated. Outline burnt timber.

Each day, just before leaving camp, the geologist will compare his own and the camp aneroids, and the reading of each, with time, will be recorded. At work the aneroid will be read on gentle slopes at intervals of 200 paces; on steeper slopes at intervals of 100 paces; also at all maxima and minima. When minima are streams the map and notes will indicate this, showing width and character of streams. When a stream has made a cut of importance, aneroid readings will be made where the banks break off and at water-level. If instead of an abrupt break, the stream valley has steep slopes, aneroid readings will be made with sufficient frequency to show this character.

At reading points the compassman will stop, read the dial compass, and remain until the records are complete. The readings will, as fast as made, be placed upon the map at the right-hand side of the line traveled, and in the notes, the numbers being inclosed in parentheses, basing the work upon the bench-mark which served as a starting point. At bench-marks the absolute reading of the aneroid and the altitude as shown by the bench-mark, will be recorded to serve as a base for subsequent readings. For instance, aneroid 29.13 inches; altitude on bench-mark, 275 feet. At each subsequent reading, by setting 275 on the altitude circle at 29.13 on the fixed dial, altitudes may be directly recorded. When the next bench-mark is found at two miles distance, the difference between the aneroid reading on the basis of the first bench-mark and the second bench-mark will be recorded. At intervals of a half hour during the day the time will be attached to the aneroid readings. Upon reaching camp, after the day's work, the geologist will record the readings of his own and the camp aneroid, and also the time. Interpolations will then be made, based upon the bench-marks and times (not distances) if the day has been one of no abnormal atmospheric disturbances, or upon both bench-marks and camp aneroid readings if there have been unusual disturbances, and the corrected numbers, less a constant of 4 feet, will be placed upon the face of the map at the left-hand side of the lines of travel, and in the notes without parentheses, but the parentheses numbers will not be erased.

At each aneroid reading the trend of a horizontal contour line will be indicated upon the face of the map, making the length of the line correspond as nearly as may be with the actual distance seen. In passing directly up or down a slope, the contour lines will be at right angles to the direction of travel. In passing up a hill diagonally the contour lines will intersect the lines of travel at various angles, which can be estimated and plotted with sufficient accuracy by an appreciation of the north and south direction.

The course of travel will be always north and south. In starting from a quarter or a sixteenth post, the work will be plotted on the assumption that the true course is followed, but upon reaching the next section line the geologist will remain in the position at which the line is struck by the compassman until the latter finds the adjacent bench-mark. The intervening distance will then be paced by the compassman, and the point of intersection of the section line marked. From this point to the starting-point, a right line will be drawn as the actual course of travel. The positions of the contour lines, aneroid readings, etc., will not be changed.

Geology. — In running the north and south lines, the compassman will, if possible, determine the course by the dial compass. At the time the geologist reads his aneroid, the compassman will determine the magnetic variation, which will be given to the geologist and recorded in the note-book. Each morning the watch of the compassman will be set to apparent time (corrections being made for the equation of time and for longitude), so that he will need to make no correction in reading magnetic variation. On cloudy days, and at times when the sun is too low for the use of the dial compass, the course run will be by needle upon the supposition that the magnetic variations indicated on the township plats are right when corrected by deducting 3° if the variation is east, or by adding the same amount if the variation is west.

Not less than once per week the accuracy of the watch of the geologist in charge of a party (who will give time each morning to the compassmen), will be tested. This may be done, first, by obtaining correct time from a railway station by means of a packer when sent out for provisions. Such time will be mean, i. e., watch time for the nintieth meridian. Second, corrected time may be found by blazing out a north and south section line, preferably a range line, for some distance, setting a signal on the line and placing the dial compass duly leveled, in a north and south direction upon a Jacob's-staff just before mid-day, and setting the watch at 12 at the time the line strikes the noon hour. In a watch thus set all corrections are made.






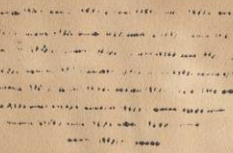
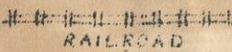
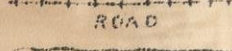
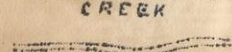
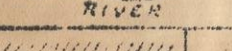




It will be the constant business of the geologist to search for outcrops. All hills within a reasonable distance of the course of travel will be examined. Oftentimes upon the steeper slopes of a hill a rock surface is covered with a coating a few inches thick of moss, leaves or vegetable mold and can be stripped with the pick. Where the exposure is small and there is the least possibility that it may be a large boulder, indicate this fact in the notes and by a query on the map. All ledges off the line of travel of the compassman will be located by the geologist pacing to this line in an east and west direction, his course being determined by compass.

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, having strike line and dip arrow with numbers attached. 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 specimens representing it. 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, No. 437, 1226, N., 353 W., *Strike*, $N. 47^{\circ} E.$, *Dip*, $68^{\circ} S. E.$ Then follow with as full a description of the ledge as possible.

Collect a specimen from every ledge, and if the ledge exposes different kinds of rock, collect a specimen of all varieties. Take care to get fresh material, unless for a special purpose the weathered surface is desired. Where ledges are infrequent the normal size of specimens will be $3 \times 4 \times 1$ inch. In case several specimens of the same ledge are necessary, and when ledges are numerous, specimens $2 \times 2\frac{1}{2} \times \frac{3}{4}$ inch will be allowed. In all cases collect chips for slicing. No two specimens will be given the same number. In the cases in which several specimens come from the same ledge, the different numbers assigned to them will enable an easy description of their relations. Specimens will be placed at once in paper bags provided, upon which shall be marked in at least two places, with a blue or red pencil, the specimen number.

TOPOGRAPHICAL SIGNS.

 <p>PINE OR HEMLOCK</p>	 <p>HARDWOOD</p>	 <p>PINE OR HEMLOCK AND HARDWOOD</p>	 <p>CEDAR SWAMP</p>
 <p>SPRUCE OR TAMARACK SWAMP</p>	 <p>MARSH</p>	 <p>RAILROAD</p>  <p>ROAD</p>  <p>CREEK</p>  <p>RIVER</p>	 <p>NO STRUCTURE</p>
 <p>↓ 55° S. NEARLY MASSIVE</p>	 <p>↓ 55° E. ↓ 5.62° E. SHALY OR BEDDED</p>	 <p>↑ 83° SECONDARY STRUCTURE.</p>	

EQUATION OF TIME FOR 1891.

Day	Min.	Day	Min.	Day	Min.
-----	------	-----	------	-----	------

JUNE.

Add to watch time.

1-6	2	7-11	1	12-16	0
-----	---	------	---	-------	---

Subtract from watch time.

17-21	1	22-26	2	27-31	3
-------	---	-------	---	-------	---

JULY.

Subtract from watch time.

1-6	4	7-13	5	14-31	6
-----	---	------	---	-------	---

AUGUST.

Subtract from watch time.

1-7	6	8-13	5	14-18	4
19-23	3	24-26	2	27-29	1
30-31	0				

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TOPOGRAPHICAL SIGNS

SEPTEMBER.

Add to watch time.

1- 2	0	3- 5	1	6- 8	2
9-11	3	12-14	4	15-17	5
18-19	6	20-22	7	23-25	8
26-28	9	29-30	10		

OCTOBER.

Add to watch time.

1	10	2- 4	11	5- 8	12
9-12	13	13-16	14	17-22	15
23-31	16				

NOVEMBER.

Add to watch time.

1-13	16	14-19	15	20-23	14
24-26	13	27-29	12	30	11

1891

1

Book No 2

Geologist - F. J. Hanniman
Compassman - Othman Mullard

SPECIMENS = 107 - 128

TOWN 44

RANGES 31, 32, 33

S.

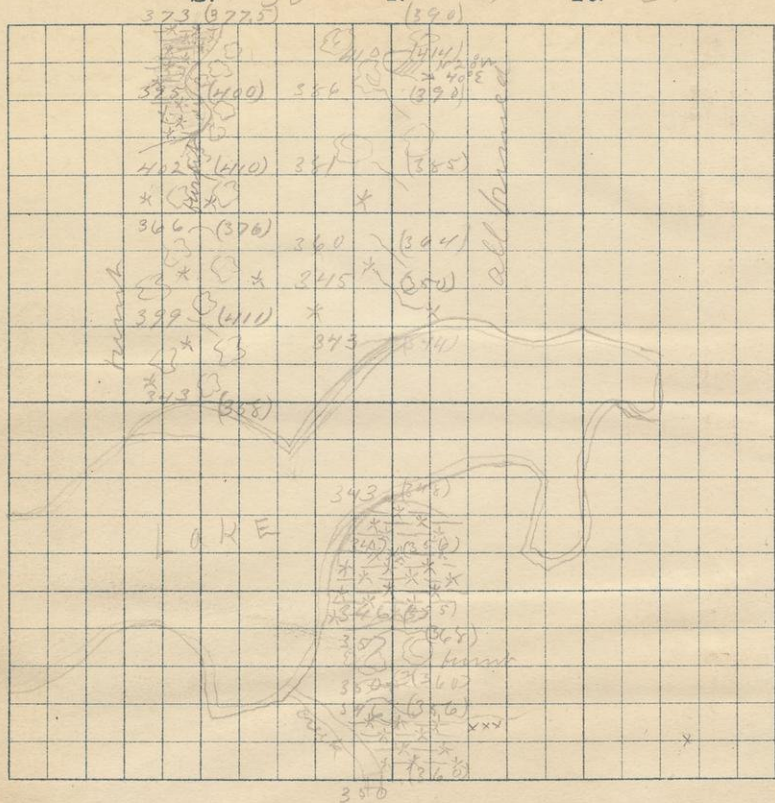
30

T.

44

R.

31



Notes of W 1/4 line from Sec. line south to the Lake - Taken by Phillips June 17

00	BM (377.5)	Can Swamp	1,105
100			
200	395 (400)	End of " "	(burnt)
250		Can & Cedar "	
290		Dead, heavy Cedar	
400	402 (410)	Burnt	
500		"	
540	366 (376)	Mixed Hardwood (Maple)	
800	399 (411)	Min. Burnt	
1000	343 (358)	Hemlock & Hardwood	
		Lake	1,135
(In Map see above)			

Camp. An. No 8 28.65 70m

An. " 1 - 28.56

Set An. at ³⁸⁶(389.67) on 13m. 8 1/4-19
At. 28.53 and started South at 80m

100 410 (414) Burnt Hardwood

#107 125 - 0 Strike N. 20° W Dip 40° E.

A small outcrop of diorite 30-40 ft

2.

200 386 (390)

400 (380) 381 (385) Burnt Pine & Tann.

600 360 (364)

700 345 (350)

825 343 (344) Water level 8:30

1275 (called) 343 (348) 9:50

1400 347 (356) Tann. Swamp

580 346 (355) End of "

600 357 (364) Brown Hill

750 350 (360) Burnt Pine

800 346 (356) Swamp Pines

30

Creek 30' wide

1995 350 (360) 1/4 mile 130 paces

East of line

10:20

#107 1875 N. - 1000 ft - A small out-
crop of diorite, about 30-40 ft.
Strike N 20° W Dip 40° N 70° E

4 ✓

S.

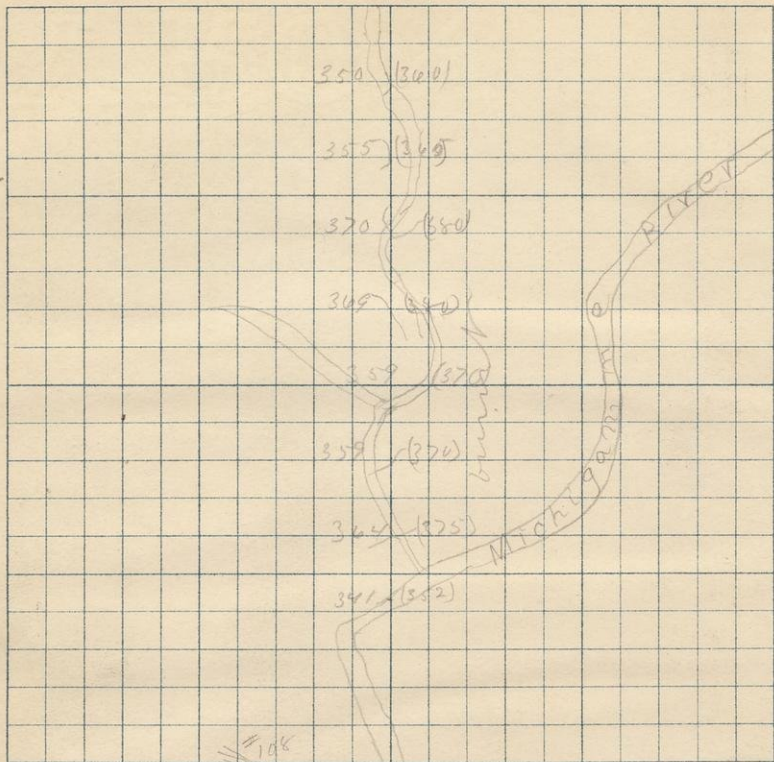
31

T.

44

R.

31

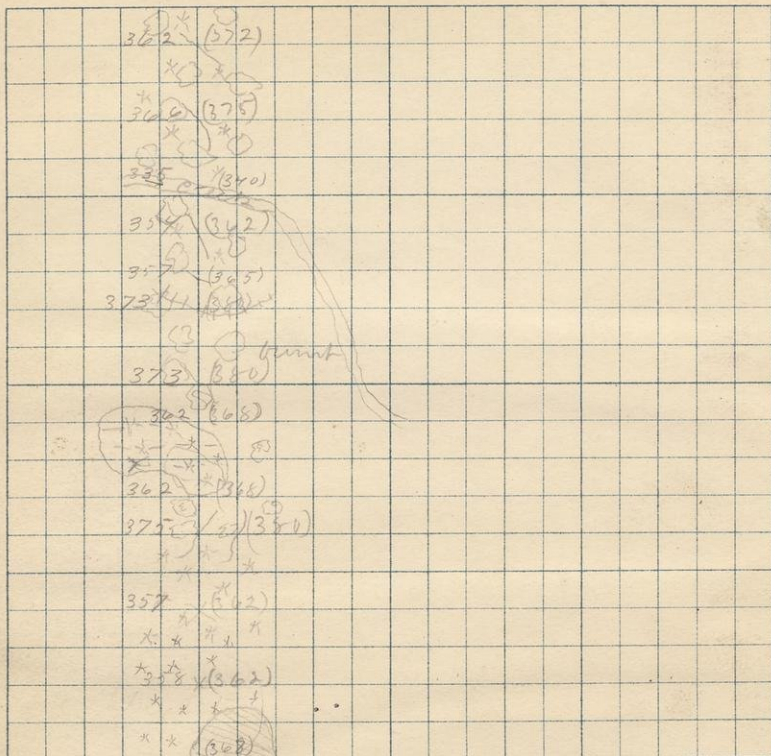


Started on Second Mile at 10:30

0	350 (360)	Winefall of Tan, etc.
200	350 (360)	
400	355 (365)	
600	370 (380)	
700		Bridge crossing River
800	369 (381)	Burnt Hardwood
1000	359 (371)	
200	359 (370)	
400	364 (375)	
1560	341 (352)	Water Level 11:20 Edge of River

On B. M. 345 (357) at 11:35
B M. (344.81)

#108 N.O. - W. 1400 of S.E. Cor. 31-44-31
Strike N 30° W Dip 80° S 20° W
A large Hill of dark fine
compact greenstone



Started H. at 12:15

Set An. on B.M. ³⁶⁴ (367.93) at 2854

Hemlock and Cedar

200	358 (362)	Sow ground
400	357 (362)	
600	375 (380)	Birch & Hemlock
725	362 (368)	low sp.
900	362 (368)	End of swamp

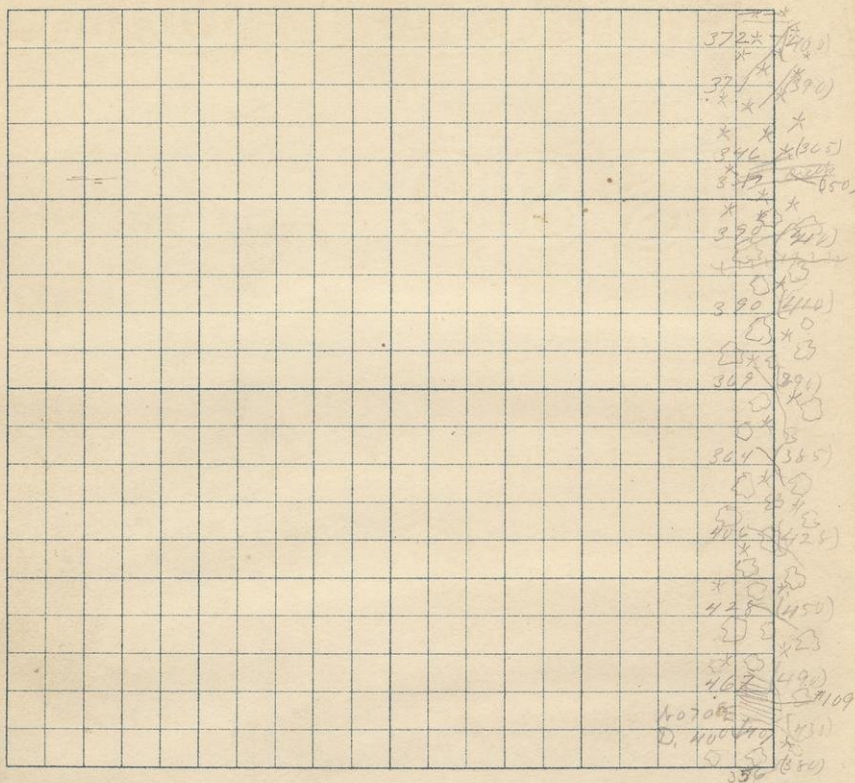
Mixed Cedar, Hem. & Birch

1000	373 (380)	Burnt	62140
1200	373 (380)	Road	
80	357 (365)	in Horbrunt	
1400	354 (362)		
1500	338 (340)	Water level in Creek	
30	335 (340)	" " " Creek	
1700	366 (375)	Hem. & Hardwood	
1900	362 (372)		

Did not run this line to the lake. About 400 paces north of Sta 1900 is the shore of Lake.

8 ✓

S. 36 T. 44 R. 32



* * H

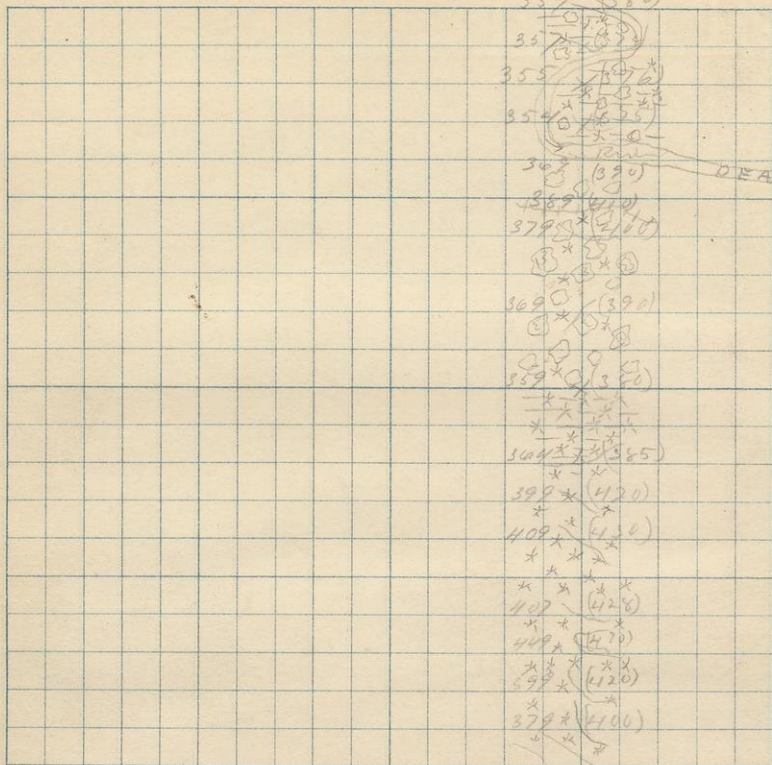
Started for Ca Port at 2:30
and went South on Turn 1-

00	357 (375)	
20	357 (375)	Hemlock
100	372 (400)	
200	371 (390)	
400	346 (365)	
406	331 (350)	Water level in Deep
41	331 (350)	1/2 " Flow East
500		Hardwood
600	390 (410)	
80		Road
800	390 (410)	
1010	369 (390)	1/4 just 300
200	364 (385)	
400	406 (428)	
600	428 (450)	
800	467 (490)	
900	407 (420)	" 37
2010	356 (380)	on B.M. 360
	on 3140 P.M.	
	Went West to 1/8 line	

#109 - at 200 E 0 Out crop of Dinit
Strike N 70° E Dip 40° S 20° E
A large outcrop of compact
brecciated

10 ✓

S. 36 T. 44 R. 32



110- 360m 500m divide
Strike N. 70° W Dip 80°

Started Run from "4 part water

Elevation of water (360) 343 at 4 PM

100	379 (400)	Hemlock
200	399 (420)	
325	448 (470)	Map
400	407 (428)	
(600)	409 (430)	
700	399 (420)	
800	364 (385)	Tan. Swamp
1000	359 (380)	Edge " " 4135
1200	369 (390)	Hardwood
1400	379 (400)	"
60	389 (410)	Road
1600	369 (390)	
04		Edge of Water
1620	353 (370)	Water level 3710
1700	354 (375)	Black Elder
1800	355 (376)	
1911	357 (376)	
90	359 (360)	See Sec.

#110 N 300 - W 500 D. white
 Strike N 70° W Dip 80° S 20° W
 A large Hill of Compact
 Greenstone.

12 ✓

S.

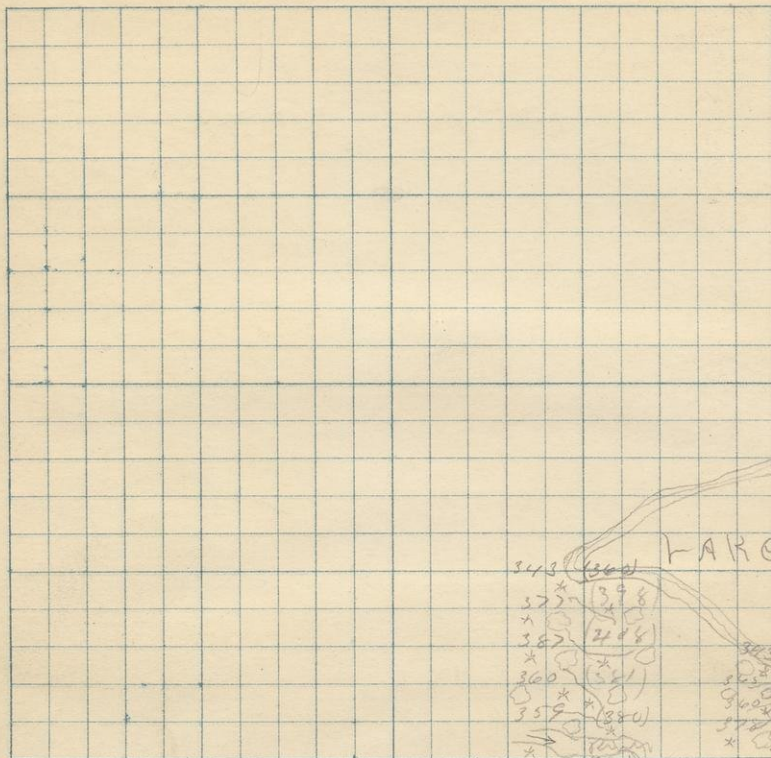
25

T.

#4

R.

32



55	Edgewood Run ³⁵ (370)
130	359 (380)
200	360 (371)
300	387 408
400	377 (398)
70	343 (360) Water Edge ^{5:45} & Sunk

For rest of notes on this
18 line see page 15

Notes on Sec line from S.E. Cor
Sec 25 - 44 - 32 - north to Lake

June 17,

00	357 (360)	2:15 P.M.
100	378 (385)	Hem lock & Hardwood
130	360 (370)	
200	365 (380)	
225	343 (354)	Edge & Sunk of Water 2:20

Started from 1/2 Port at 9:20

Set on ³⁵⁸ at (362.05) At 28.35

and run south to Lake

Burnt ground

100 358 (362)

200 364 (368)

300 376 (380)

400 376 (380)

420 367 (370) Swamp

600 367 (370)

840 369 (372) End of Swamp

Burnt Hemlocks & Cedar

900 406 (3108)

80 388 (390)

9:45

1000 nearly all Hemlocks and Birch

1100 380 (382)

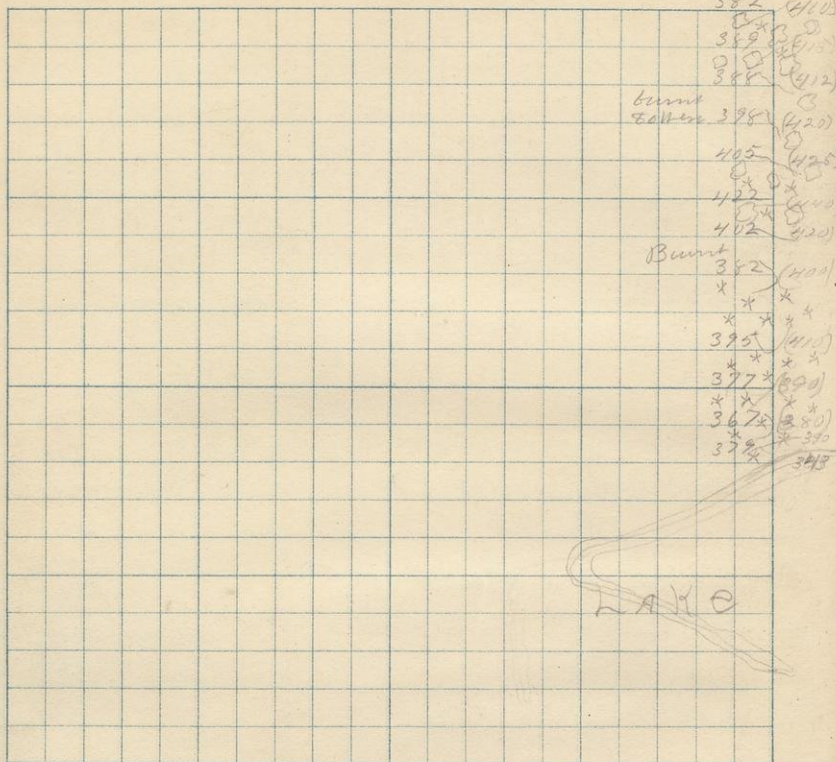
1301 380 (382)

1375 364 (365)

1416 343 (340) Edge & level of Lake ¹⁰

343 (350) Water level at 10:30

S. 25 T. 44 R. 32



00	Lake shore	10,130
55	379 (290) Top of Bank	
	Hem lock and Cedar	
100	369 (280)	
200	377 (290)	
300	395 (410)	
500	382 (400) Burnt Hem & Hard	
600	402 (420) Hem. & Hardwood	
75	422 (440)	
800	405 (425) Hardwood	11,05
900	398 (420) Burnt to West	
1000	388 (412)	
100	389 (415) Hardwood and pine	
90	382 (410) Line	11,20

Stretch line 70 paces East of
 Corner ³⁸⁹ (419) on B.M. 392.62

S.

26

T

44

R.

32

~~386~~ (390)
~~398~~ (395)
~~392~~ (390)
~~389~~ (395)
~~385~~ (390)
~~385~~ (392)
~~382~~ (395)
~~364~~ (370)
~~385~~ (392)
~~387~~ (395)
~~386~~ (390)
~~380~~ (390)
~~371~~ (382)
~~359~~ (350)
~~363~~ (370)
~~398~~ (410)
~~352~~ (395)
~~386~~ (400)

Camp. An. 28, 37

6:30 AM

No. 1 28, 28

Set An. on B. M. ⁴⁰(40469) at 28.235
and started south on 1/4 line 7130

Mainly Cedar, some spruce - Birch

100 386 (390) Cedar Swamp

300 390 (395) End of "

Bantam Hick and Cedar

400 397 (402) All dead

500 349 (395)

50 395 (400)

600 387 (392)

(700) 389 (395)

75 364 (370)

850 385 (392)

990 387 (395) 1/4 post 805

1200 386 (395)

1400 380 (390)

85 1/8 post

White Birch + Poplar undergrowth

1630 371 (382) Top of River Bank

70 339 (350) Edge of level of water
Water runs east

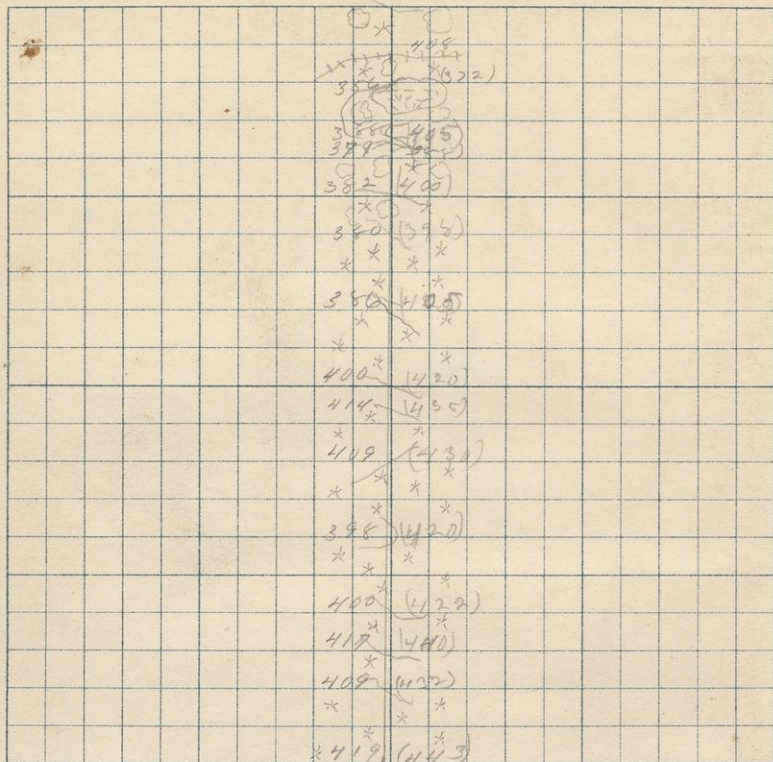
1708 339 (350) " " " "

1800 363 (375) Hem, + Cedar

50 398 (410)

1900 382 (395)

1990 386 (400) 10 p.m. line 28.1950



Started South from $\frac{1}{4}$ stake at 9 am.
 Nearly all Birch and Cedar

125	392 (408)	Road
200	356 (372)	Hollow
35	356 (372)	"
325	388 (405)	Hay
350	371 (389)	Hem & Cedar
500	382 (406)	
600	380 (396)	
800	386 (405)	
975	400 (420)	
996		$\frac{1}{4}$ stake 9:30
1050	414 (435)	
200	409 (430)	
400	398 (420)	Wet ground
600	400 (422)	
700	417 (446)	
800	419 (432)	
1994	419 (443)	Stretch line
22 paces West of Stake at 10:10		
on B.M. ⁴¹⁹	(422.95)	
Bent west to $\frac{1}{4}$ stake.		

S. 35 T. 44 R. 32

391 (415)
 388 (422)
 395 (415)
 377 (390)
 383 (415)
 402 (420)
 412 (415)
 409 (415)
 411 (420)
 403 (410)
 428 (430)
 417 (425)
 412 (415)
 418 (423)

Set Am ⁴¹⁹ at (423) on B.H. Ab. 28.19
and started north on W^{1/2} at 10.20

Mostall Hemlock

200 412(418) Saw & wet

300 417(425)

400 420(430) Maple and Birch

600 403(415) Birch Hemlock Can.

750 411(425)

900 400(415) Cedar Hem. & Balsam

Lowland Wet

968

1/8 past 11.10

1200

428(445) Hard (Maple & Birch)

1400

402(420)

75

382(400)

1600

377(396)

1800

395(415)

1920

398(420) Road

990

391(415)

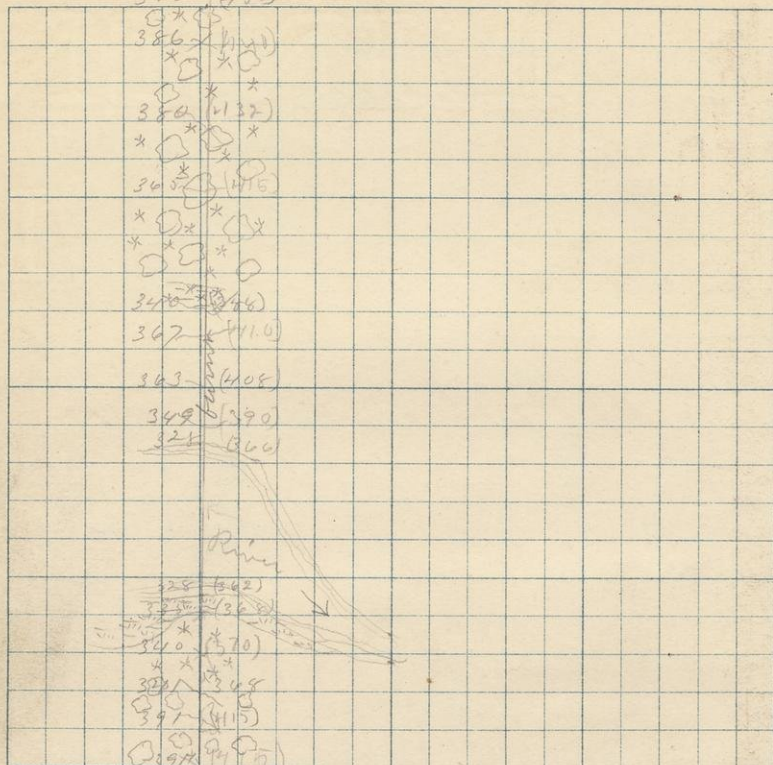
11.30

S.

T.

R.

32



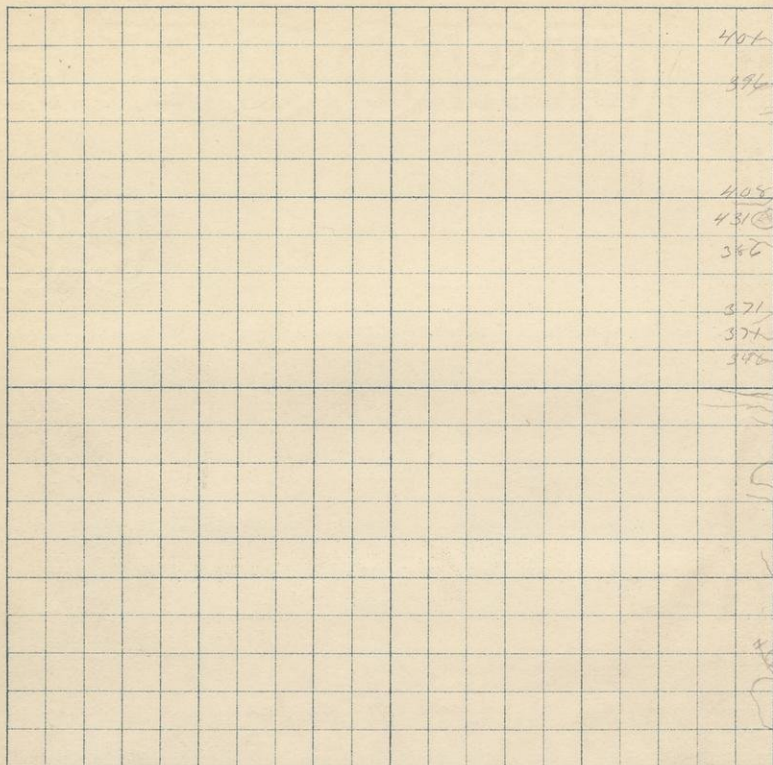
Started on 2nd mile at 11:30

Most all Maple

125	391(415)	
200	341(368)	Tan ^{low} + Bk. Alder
300	340(370)	
400	335(368)	Open Marsh
50	328(362)	Water level
850 (called)	328(366)	" "
900	349(390)	Burnt (No timber)
1000	363(408)	12:40
1140	367(410)	
200	340(388)	Town Swamp
75		End of " "
1525	365(415)	
1700	380(432)	Mixed timber
		Hardwood Cedar and Hemlock
1900	386(440)	
2010	395(450)	Struck line
20		paces East of 118 stake at 11:20
		on B.M. (398.79)
Arrived at Camp at 2:18		
Camp on	28.30	
At 51	28.21	

26 ✓

S. 27 T. 44 R. 32



401 (405)

396 (410)

405 (412)

431 (435)

386 (390)

371 (375)

371 (375)

371 (375)

(341)

(350)

(371)

(360)

(350)

(350)

(350)

(350)

(350)

(350)

(350)

(350)

(350)

(350)

800 = 27.8

June 20

27

Camp 28.4

7145

No 1 28.34

Settin. on B.M. ^{3 1/2} (B 95.41) Ab = 28.24

and started south of Sec line at 8:35

100 401 (405) Brunk Timber

200 396 (400)

111 N. 1500 - W 20 Camp act greenstone

The outcrop was too much crumbly

to make out any structure

two knobs of outcrop

500 408 (412)

60 431 (438) May

625 386 (390)

800 371 (375)

85 371 (375) Burnt Hill

925 346 (350) foot " "

1020 344 (344) Edge of level of water

1040 344 (344) Water runs best

1100 346 (350)

1200 366 (370)

1300 356 (360)

1500 346 (350)

1700 364 (368)

23

Road

60

401 (405)

1900

401 (405)

1950

391 (395)

10.20

Started Smith on second mile at 10:20

25 370(375) -

125 370(378)

80 395(400)

#112 N75W - E, 10 small outcrop of
compact granitic, in stream

300 380(385) Road

455 410(410) "

560 380(385) Meadow Marsh

630 385(385) End of " "

Second growth mixed (Cedar, Hemlock, etc.)

1000 405(410) 1/4 stake 11 am

1100 415(420) Hardwood (Maple)

1300 435(440)

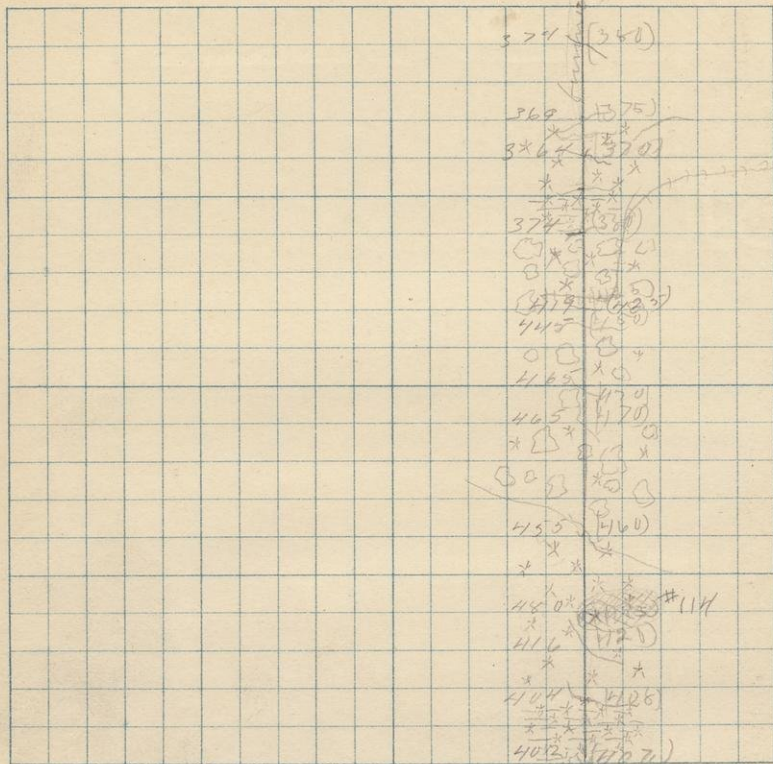
1500 445(450)

1600 445(450)

2010 445(450) on B.P. 44865

at 11:30 A.M.

#113 N 0 W 50 Outcrop of —
Could not get at the stratum



385 at 2:30

4960 is line and 10 paces west of station

Set

Set Am. at ⁴¹² (407.49) on B.M.At 24.22 and started
north at 12:10 on 1/2 line
Tamarack Swamp

175 404(408) End of Swamp

Hemlock and Cedar

300 416(420)

114 N 340 W 500 A large outcrop
of compact greenstone
Too much covered to get
any structure

350 476(480)

400 480(485)

600 455(460) Handwood

800 465(470)

1000 465(470) 18m

150 415(450)

1201 419(425)

25 Road

1400 374(380) Tamar. Swamp

1510 374(380) End of " "

30 379(385)

1600 364(370) Hem. & Cedar

50 364(370)

1700 369(375) Burnt Timber

1910 374(380) 1.50

1960 378(385) struck line 1800 = 23.0

S. 27 T. 49 R. 32

Run back from $1\frac{1}{2}$ stake as
2:50

0 378 (385)

200 378 (385)

375

Road

400 365 (372)

500 343 (350)

600 337 (340) Edge of Water

630 337 (340) water runs East

700 342 (350)

800 379 (385)

1000 379 (385)

3:10

200 379 (385)

400 379 (385)

50 356 (365) Jam Swamp

500 356 (365) End of "

600 368 (375)

1800 381 (390)

910 386 (395)

1940 386 (395) Struck the

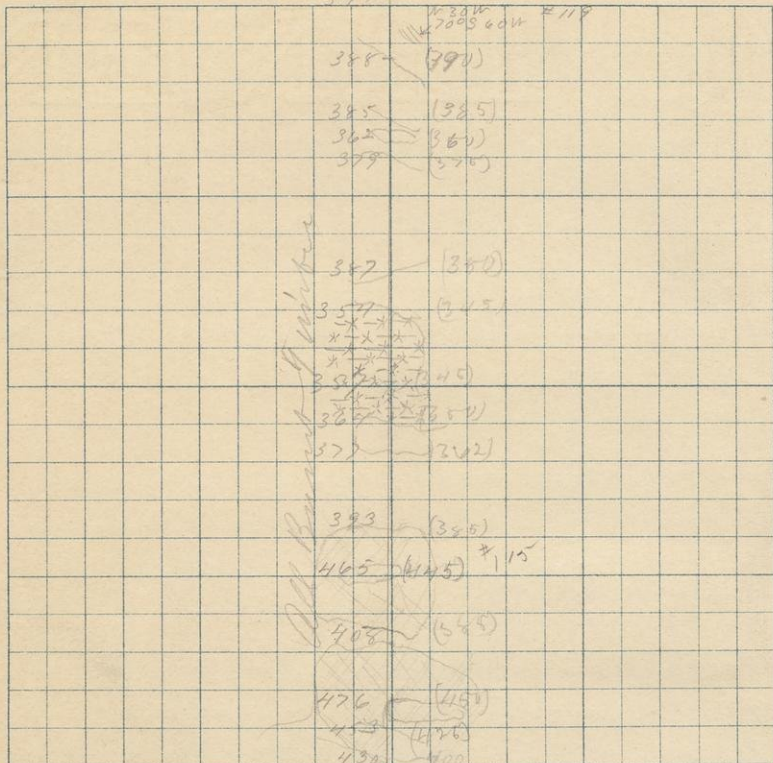
Line 10 paces East of Stake 3:40

On B.M., 386 (395) 13 $\frac{1}{2}$ 390.28

Camp Arc 28.34

No 1 28.25

S. 28 T. 44 R. 32



500 = 27,83

June 22 35

Camp Am. 28,41 8 AM
No 1 28,32

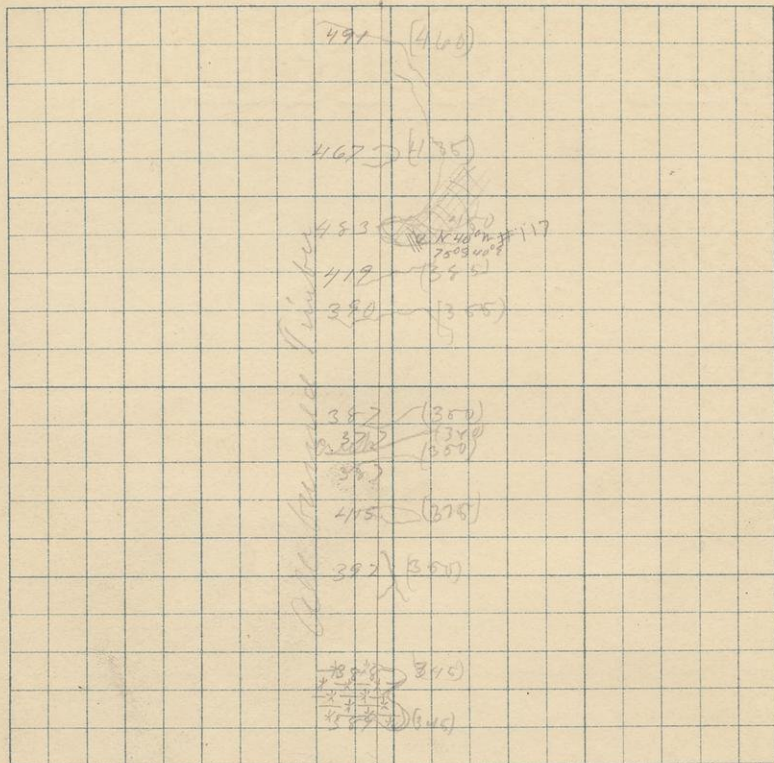
Set Am on B.M. (347.00) At 28,32
and started South on line at 8,20
150 388(290) - Top of Bluff
All burnt timber

300	395(385)	
350	362(360)	Hill
400	379(375)	
700	387(380)	
800	354(348)	Tann. Swamp
1000	357(348)	(N 10 W.) 8,50
1100	364(350)	End of Swamp
75	377(362)	
1375	393(385)	

115 600 N 1050 W of S.E. Co Sec 28 T 44 N -
R. 32 W. A large hill of greenstone
? strike S. 80° W, Dip 65° N 10° E

11 1500	465(445)	W of Road
1650	408(385)	
1825	476(450)	
1900	453(425)	
75	430(400)	9,55

116 0 N (10000) 2
S.E. Co. 28 - 441 - 52
On top of greenstone,
? strike N 45° W Dip 60° N 45° E



Began on second mile, could
not find line.

100 491(400)

400 467(435)

575 483(450)

S.E. Co 33-44-32

117 1300 N95W $\frac{1}{2}$ A large Knoll, bearing

Strike N 40° W Dip 75° S 40° E

700 4129(385)

10:35

800 390(355)

1100 387(350)

20 377(340)

55 377(340) Creek

75 387(250)

1325 415(375)

1500 392(350)

11 am

750 388(345) Cedar Swamp to west

1900 389(345) End of

80 400(355) Struck line 11:15

55 paces W⁴³(385) on B.M 435122

38

S.

W 3.

T.

4/24

R.

32

[illegible]

Set An on Bm ³⁸⁶ (387.4) At 28.3.38
and started north on $\frac{1}{4}$ line at 12:05

$\frac{1}{8}$ stake in swamp $V = 3^{\circ} E$

75 386 (390) End of swamp

150 397 (400)

350 392 (395) $V = 3^{\circ} E$

475 378 (380) Hollin

600 388 (390)

50 369 (370)

65 Creek

700 369 (370)

800 400 (400)

118 950 N 15 10 W of S.E. Cr. 33-44-32

No structure could be made as
a large hill Greenston weather

950 440 (440)

1025 481 (480) 12:55

1200 466 (468)

75 481 (480)

1350 451 (450)

75 426 (425) Cedar Hollow

1450 427 (425) End of " $V = 4^{\circ} E$

1550 457 (455)

1700 457 (455)

80 442 (440) 11:25

1850 458 (455)

2000 483 (480)

991 S. 28 T. 44 R. 32

395 (345)

394 (345)

348 (300)

382 (300)

386 (300)

421 (415)

415 (410)

405 (440)

419 (415)

428 (425)

488 (445)

All Banded Timber

Commenced 2nd mile

30	444(445)	
200	429(425)	
400	419(415)	
75	465(460)	155
550	415(410)	
750	421(415)	
975	386(380)	Undulating
1300	382(375)	Horizontal $V = 60^{\circ} 30' E$ 2:20
1500	368(360)	$V = 0^{\circ} E$
1700	394(385)	
1850	395(385)	
2004	396(385)	struck the
line at 2:45 - 60 paces West of $\frac{1}{4}$		
On B.M. 385.45 ³⁸¹ (370)		

Camp A. 28.5 at 3:10 Pm
N. 1. 28.4

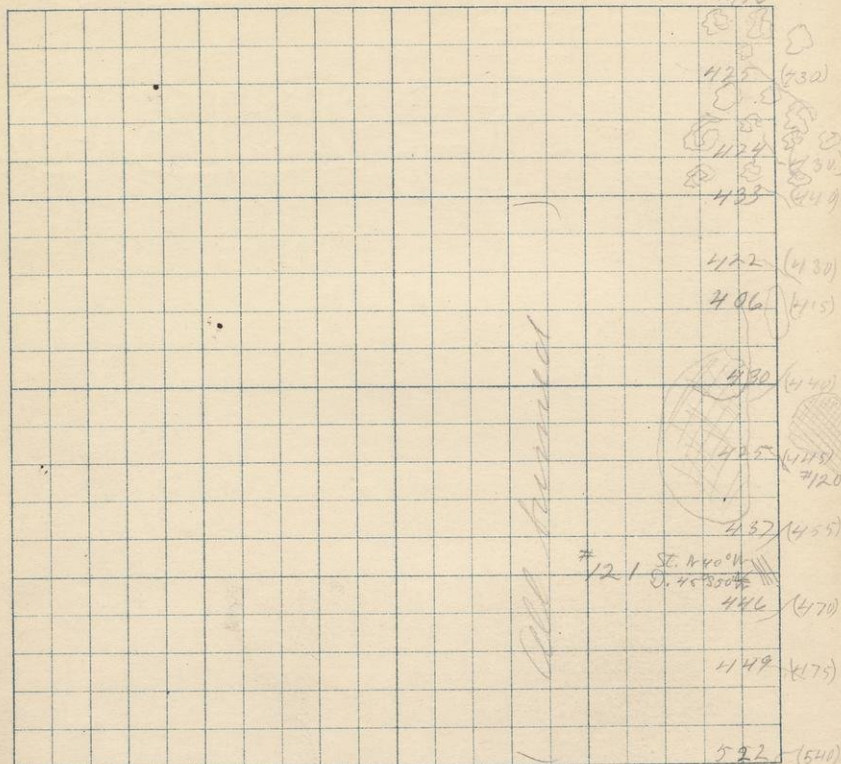
#1193) 1900 N 950 W of S. E. Cor. 28-44 - 32

A small outcrop of sedimentary rock. Strike N. 300 W.

Dip $70^{\circ} S. 60^{\circ} W.$ This was taken near the Camp and is similar to an outcrop on E $\frac{1}{8}$ line about 1 mile south. About 400 ft. Exposed.

42 ✓

S. 29 T. 114 R. 32



June 23 - Sent in specimens
104 to 118

27.9 = 2000

June 23,

43

Camp Ln. 28.66

7 AM

H₀₁ 28.60

Started from S. E. Co. Sec 20.

at 7:40 and run South on sec line.

Set An. on B.M. ⁴¹⁶ 420.22 Ab. 28.53

V 10° W All Hardwood

200 425 (430) Old Co. of Gov.

400 424 (430)

500 433 (440) Timber all burned

700 422 (430) V = 20° W

800 406 (415) Hollow

1000 430 (440) V = 10° W 8:15

#120 800 N - 50° E, S. E. Co. 29-44-32

A large hill of Greenstone

No structure could be made out

1200 428 (445) 8:35

1400 437 (455) V = 5° W.

#121 1500 N. 20° W ^{S. E. Co. 29-44-32} ^ deep woods?

Strike N 40° W Dip 45° S 50° W

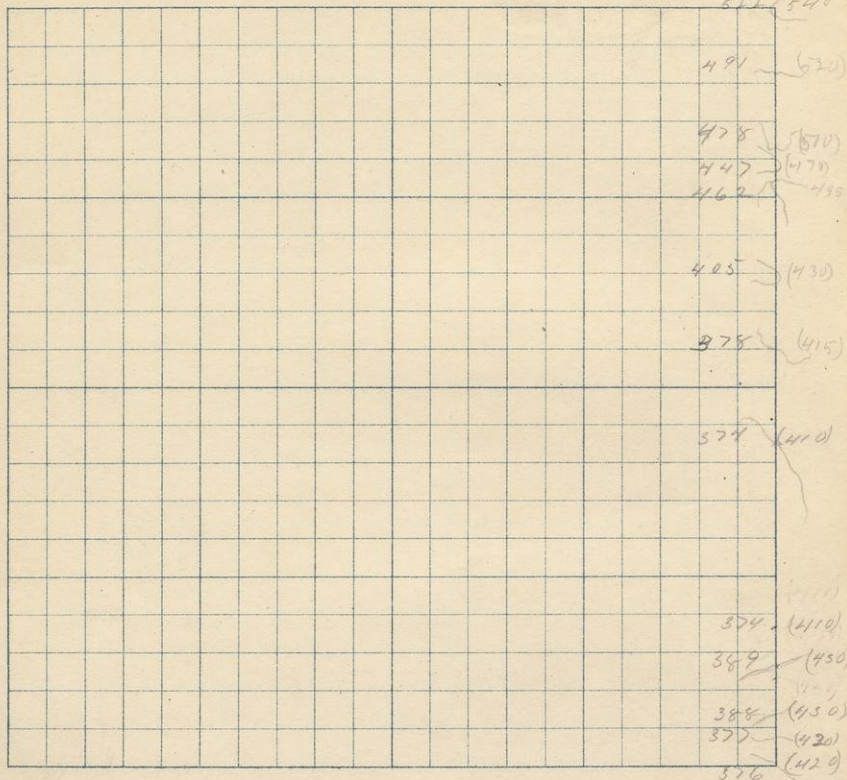
A very small outcrop

1600 446 (470) V 3° W 9:05

1750 449 (475)

2000 522 (540) V 10° W 9:20

S. 32 T. 44 R. 32



Started on second mile -

188 struck a line ²⁹¹ (520) ^{low cor.} $\sqrt{1030' W}$

376 478 (570)

410 447 (470)

450 462 (495)

700 405 (430)

911 378 (415)

10:05

1150 374 (410) Edge & Level of Water

in lake at

10:20

(1) 00 (1630) 374 (410) $\sqrt{20E}$ 11:05

100 (1730) 389 (430)

250 (1840) 388 (430)

300 (1930) 377 (420)

369 (2000) 376 (420) Struck the line 10 paces west of Cr.

On 13 In. 379.58 - at 11:20

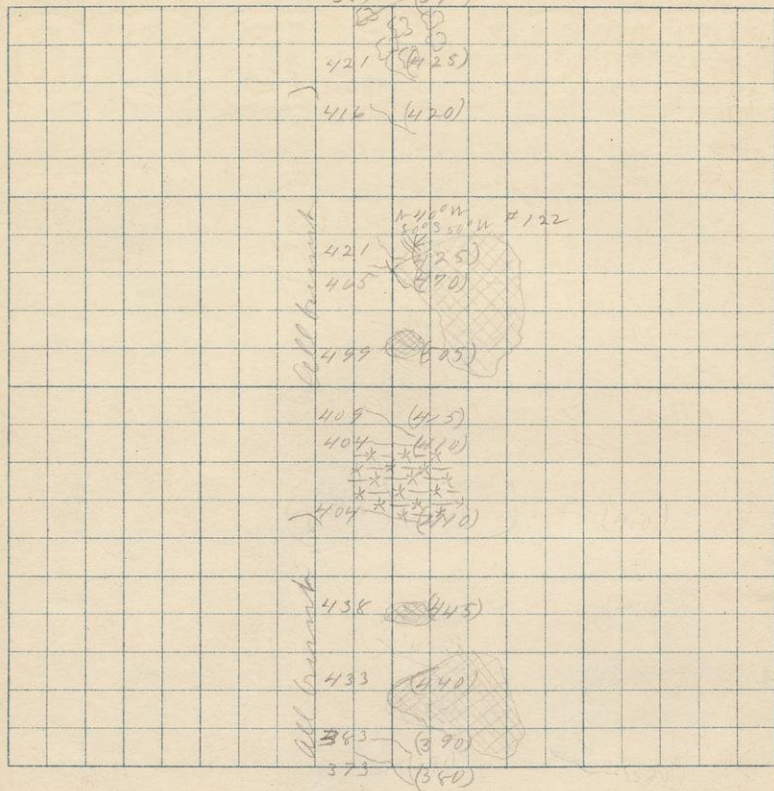
Went west to 1/2 stake and started north

Started north at		11135	$V = 130^{\circ}E$
Set Am at ³⁹⁴ 396.09 on Bm.		At 28.81	
150	381(385)		
200	396(400)		
215	370(370)	Edge & level of Lake ^{11.45}	
415 (called)	370(370)	11.12M	
445	430(435)	Top of Burnt pine ^{V = 2^{\circ}E}	
485	404(410)	Burnt pine	
650	402(410)	B	
800	380(390)		
950	374(386)		
1000	376(390)	$V = 4^{\circ}E$	12.20
1200	384(400)	This is all windfall	
1360	Creek flowing East		
1400	380(400)	Creek " " "	
1700	383(408)	End of Windfall	
Burnt pine		1120	
1910	385(415)	$V = 3^{\circ}30'E$	
2000	406(440)		

Started on second mile at 1:30 P.M.

300	508 (535)	Top of Greenstone Ridge
501	473 (500)	line #120
650	427 (465)	
800	450 (490)	
900	516 (554)	Greenstone Hill (#120)
1000	526 (570)	V 20 E 28 1/2
1150	516 (560)	
1300	496 (540)	
500	444 (480)	
700	444 (492)	
750	452 (500)	
875	425 (475)	Seed Hardwood
970	423 (475)	Old line (of Swt)
2100	414 (468)	struck the
line at 2:30 - 100 paces West		
of stake 415 (469) on B.M. 419.50		
Camp at 3:30		
Camp Am. 28.51		
Hol 28.4		

387 1. (391)



Camp An.

June 24 - 91

28.61

8 am

N 01

28.52

Set An. on B.M. ³⁴⁷ 391.34 At 28.56

and started south at 9 am

Good Hardwood

150

421 (425) Burnt Timber

(300)

416 (420)

650)

421 (425)

S.S. Co. Sec. 29-44-32

122

N 1300

N 985

A large Hill of greenstone

Apparent strike N 40° W Dip 80° S. 50° W.

701

465 (470)

900

499 (505) Greenstone Hill 9:40

line #120

1100

409 (415)

50

404 (410) Swamp

1360

404 (410) End of "

1600

438 (445) Greenstone Knoll (#120)

1800

433 (440)

r = 0°30' W of old "

1950

383 (390)

10:15

2000

372 (380)

Started on Second Mile at 10:20
 25 Cedar sw amp ³⁷² (380) V = 10W
 300 Creek running east
 50 372 (380) End of Swamp
 All burnt timber
 500 386 (395)
 650 431 (440) Greenstone Hill #120
 900 455 (465) 11 am
 1000 475 (485) Hardwood & Hemlock
 1100 490 (500)
 700 N 1020 E ^{318, 500, 32-iv-32,} Conglomerate deposits
 #123 @ large hill ⁵⁴⁰ (550) No structure
 1250 529 (540)
 1300 504 (515) Hemlocks
 1250 409 (526)
 1400 479 (490)
 1550 468 (480)
 1650 488 (500) Conglomerate Hill
 700 488 (500) Line #123
 1800 367 (380) Edge of River
 1990 367 (380) " " " "
 2000 376 (390) or B.R. 37992

Struck line about 1/2 way West of Slab
 at 12 M.

S. 32

T. 44

R. 32

32

392 (4120)

444

509

500

1178

515

468

499

405

471

492

448

484

399

500

(535)

(460)

(510)

(470)

(480)

(470)

(475)

(490)

(403)

Old Creek

Hunt

Set An. in B.M. ³⁹⁹ (402.82) Ab. 28.52.

and started north at 12:10 $\theta = 10^\circ W$

All burnt timber

430 484 (490) Conglomerate (#123)

550 468 (475)

600 492 (500) Conglomerate (#123)

780 471 (480)

800 465 (475)

900? 499 (510)

1000 468 (480) 12:50

300 515 (535) conglomerate (#123) ³⁰⁵ bands 11:20

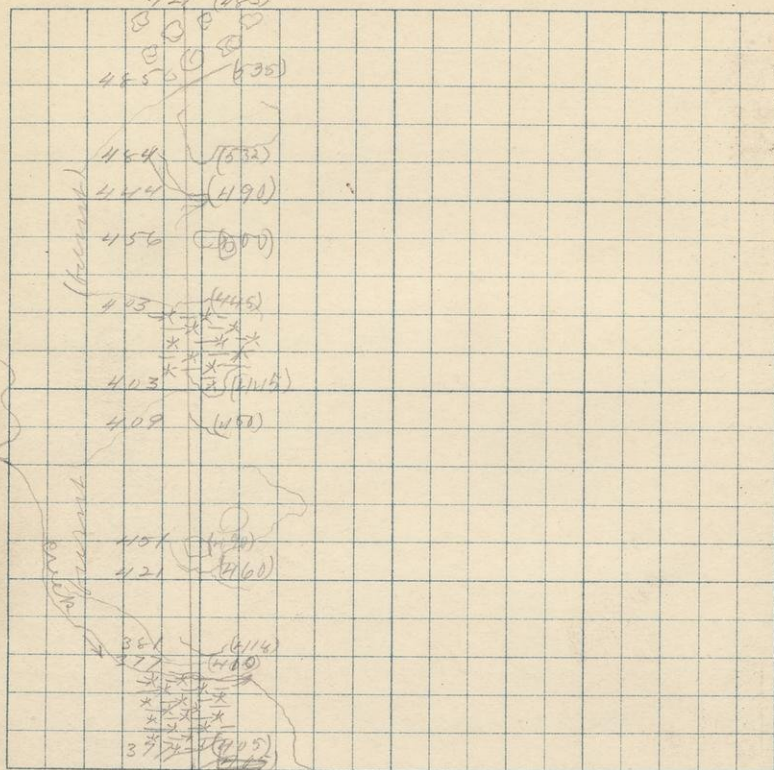
450 478 (500) Burned Hemlock

625 500 (525) Greenstone (#120)

725 509 (535)

800 448 (475)

1000 392 (420) 11:50



Started on 2nd trail

50	377 (405)	Edge of Cedar Swamp	
250		Creek flowing east	
275	377 (410)	End of Swamp	
300	381 (418)	r 1°30' E	2115
625	421 (460)		
675	451 (490)	Greenstone Hill (#120)	
900	409 (450)		
1000	403 (445)	Cedar Swamp	2135
1225	403 (445)	End of " "	
1400	#56 (500)		
1500	444 (490)		
1600	484 (532)	Greenstone Hill (#120)	
1825	485 (535)	Hardwood forest	
2000	473 (525)		
2040	448 (500)	Struck the	
		line at 3:05 50 paces West of Burke	
	429	on B. H.	433.42 (483)

Camp Pt. 28.54

H 0 28.43

June 25

Camp, Ar. 28.67

8 AM

401 28.57

Set Ar on B. M. ⁴²³ (427.10) at 28.57

And started south on sec line at 8:30

200 426 (430) Conglomerate (#123)

#124 1850 IV - 252 3.8 Cr. 30-44-32

An outcrop of grey wicks?

Strike N 40° W Dip 80° S, 50° W,

400

406 (410)

All bluish

600

396 (400)

Country

700

406 (410)

75

391 (395)

Alder Swamp

915

Creek flowing here 9:10

75

"

" East 6' wide

1050

391 (395)

1100

Alder Swamp

1200

386 (390)

1400

386 (390)

Tamarack 9:30

1500

381 (385)

End of Swamp

V = 20° W by double turn

1600

401 (405)

80

401 (405)

Good Hardwood

1575

471 (475)

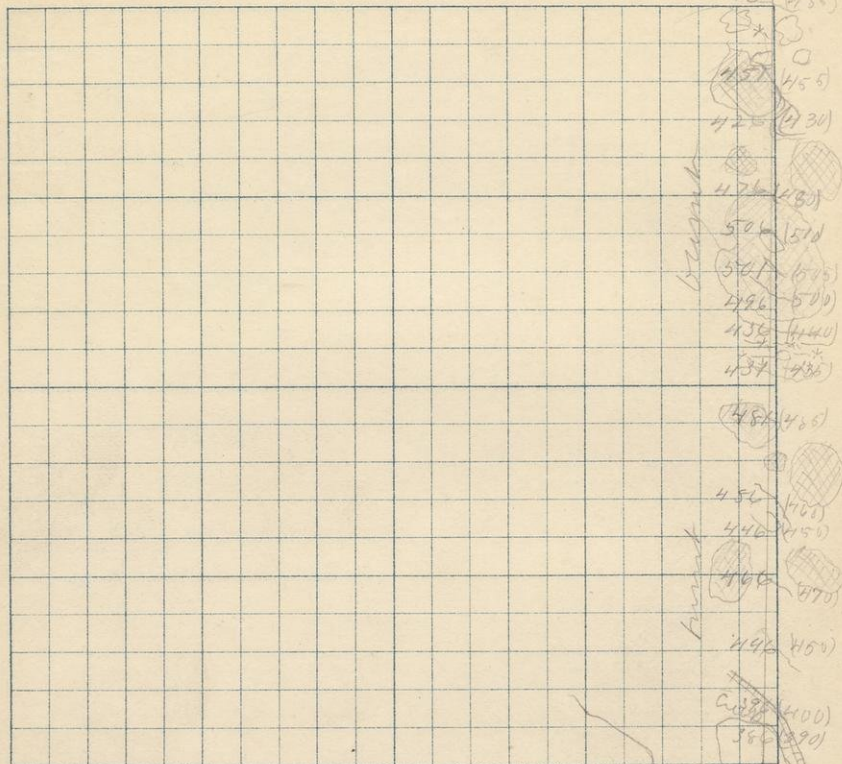
1985

481 (485)

Strike line

60 paces west at 10 AM (4155)

S. 31 T. 44 R. 32



Started on second mile at 10:10
from stake

00 431(435) V=10W by dial
200 451(455) turned

Outcrop of Conglomerate to west like #123

300 426(430)
500 426(480) Conglomerate #123
600 506(510) V=10W
700 501(505)
800 496(500)
850 436(440) Black Alder Swamp
975 431(435) End of " " 10W
1100 481(485) Conglomerate #123
1200 481(485)
1300 456(460)
1400 446(450)
1525 466(470)
1700 446(450) 11:05
875 396(400) On Tracks
915 386(390) Creek runs S.E.

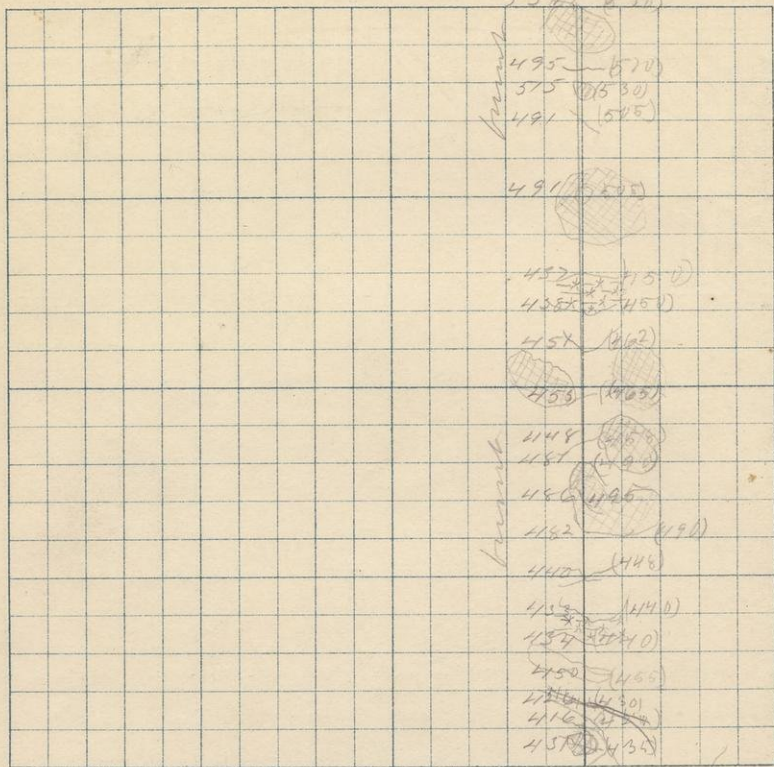
935 Struck the line at 11:15
40 paces west of stake ³⁹³(397) on 13th 397.13

Went west to the fork
and started north

S.

T.

R.



417
 Set Am on B.M. 420.44 at 28.58
 and started north on byline at 11:50
 Burnt Hemlock $V = 30^\circ W$ by dia

50	431 (435) Conglomerate like #123
100	416 (420)
25	Creek
50	426 (430) On Track
230	450 (455)
325	434 (440) Cedar Swamp
400	433 (440) End of " "
500	440 (448) $V = 1^\circ W$ 12:20
625	482 (490) Conglomerate Hill (#123)
700	486 (495)
800	481 (490)
850	448 (458)
975	455 (465) $V = 0^\circ 30' N$ 12:35
1100	451 (462)
1200	438 (450) Cedar Swamp
1300	437 (450) End of " "
1500	491 (505) Conglomerate Hill (#123)
	$V = 0^\circ 30' E$ 1:10
1700	491 (505)
1775	515 (530)
1825	495 (510)
2000	534 (550)

S.

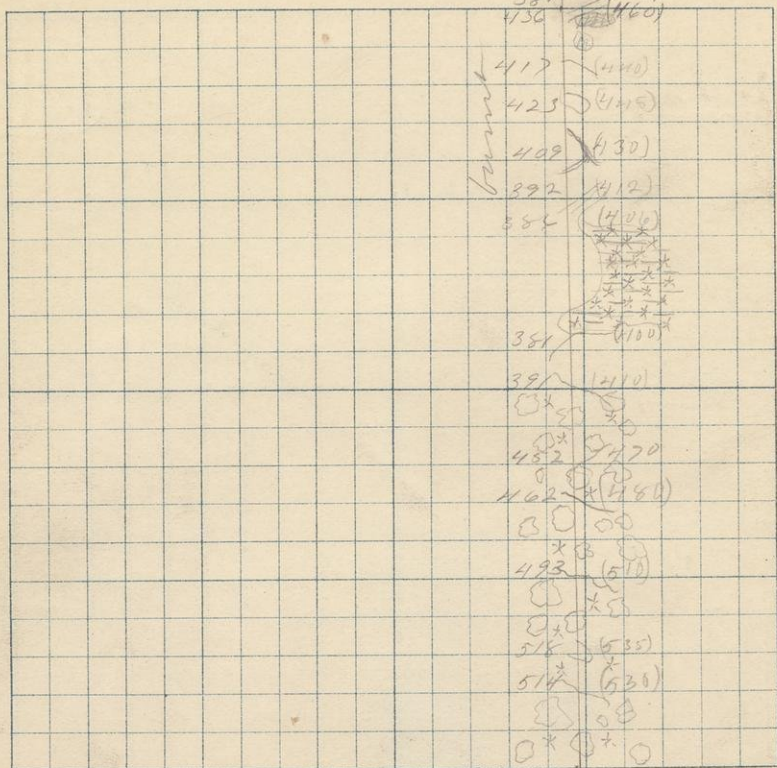
30

T.

44

R.

32

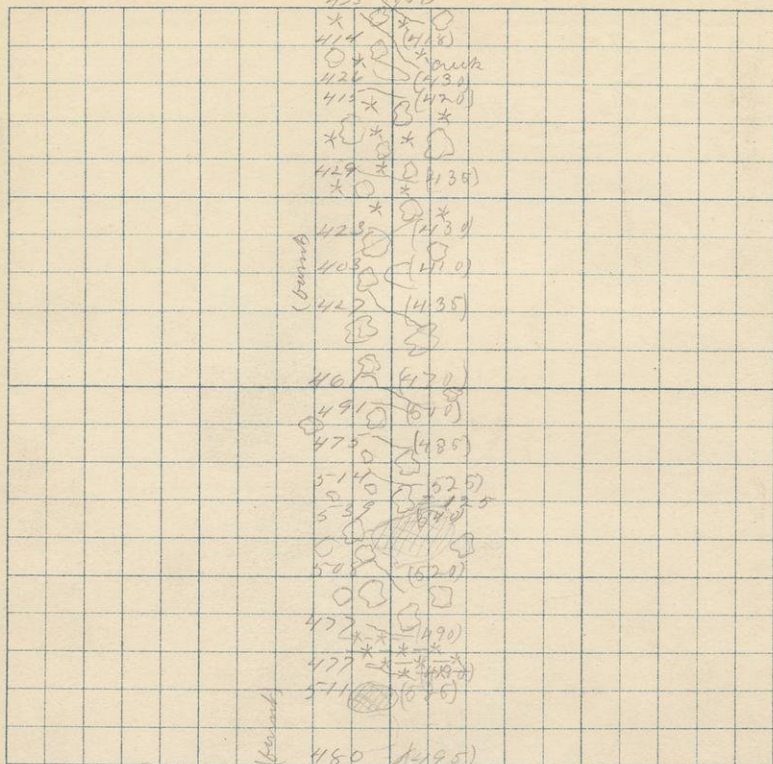


Started on second mile at 1130
 Hardwood - $V = 1^{\circ}E$,

200	514 (530)	
300	518 (535)	
500	493 (510)	
700	462 (480)	
800	452 (470)	
1000	391 (410) burned	215
1450	381 (400) Toward Swamp	
1490	386 (406) End of Swamp	
1525	$V = 2^{\circ}30' E$ 392 (412) Burnt	225
1625	409 (430)	
1750	423 (445)	
1850	417 (440)	
1900	Greenstone like #120	
1975	436 (460)	" Hills
2000	381 (405)	Swamp
2055	Struck the line at 2:50	
	50 50 paces West of Stake,	
	380 (404) on B. M. 384.12	

Camp A. 28.63
 No 1 28.54

S. 30 T. 44 R. 32



400 = 28.5

June 26

67

Camp An. 28.85

No 1 28.77

Set An. on B.M. ⁴³⁵ 43927 Ab. 28.76

and started south from 1/4 stake at 7:35

 $r = 0^{\circ} 30' E.$

Mixed Hemlock, Hardwood

100 414 (418) Creek 3' W. across south

100 424 (430)

225 415 (420)

450 429 (435)

495 Stake

600 423 (430) $r = 2^{\circ} W$ 7:55

Badly burnt Hemlock

700 403 (410).

800 427 (435) Good Hardwood

1000 461 (470) Conglomerate (#123)

50 491 (500) $r = 2^{\circ} W$ 8:10

1150 475 (485)

1250 514 (525)

125 675 N 1000 ft ^{S. E. Co. 30' - 44' - 32'} Hill of Compact Limestone

No structure

1350 539 (540)

1500 508 (520) $r = 2^{\circ} 30' W$ 8:30

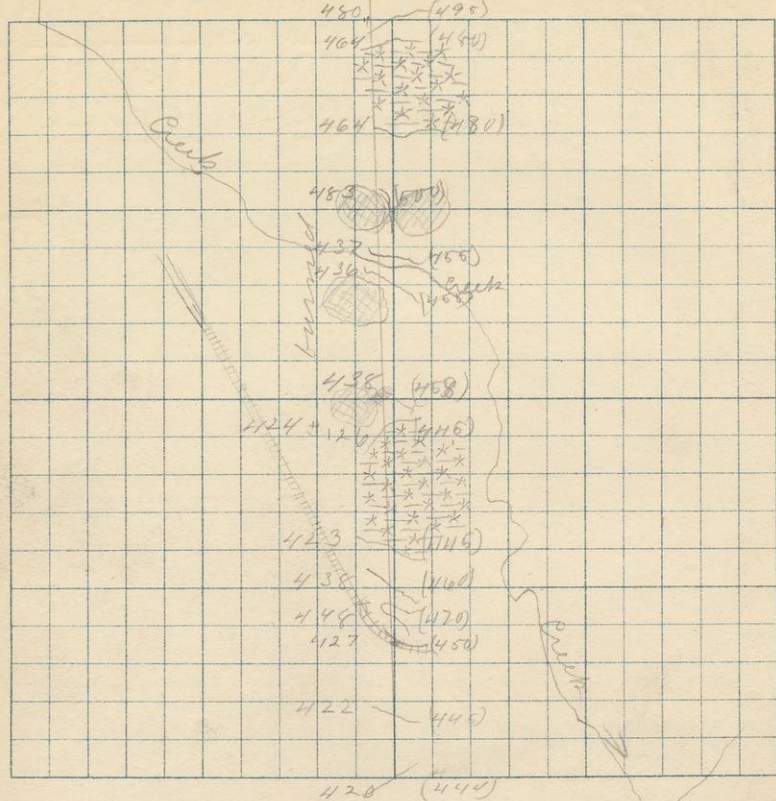
1650 472 (490) Cedar + Pam Swamp

1750 479 (490) End of " (#123)

1800 511 (525) Conglomerate Hill

All burned

S. 31 T. 41 R. 32



1290 480 (495) struck the
line about 3 paces east stake at 850
 Started on second mile at 8:50 $\tau = 2^{\circ} W$
 50 464 (480) Cedar Swamp
 300 464 (480) End of " "

All burned

500 483 (500) Conglomerate $\tau = 3^{\circ} W$ ^(#125)
 625 437 (455)

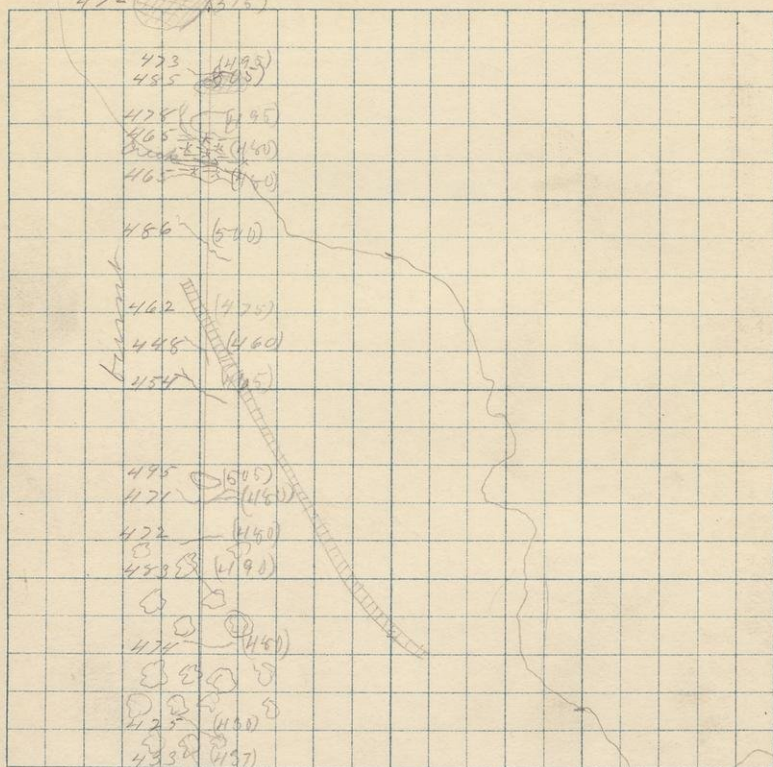
50 Creek flowing E. 5' wide
 700 436 (455)
 1000 438 (458) 9:30

#126 1000 N102.5 W 88. Cr. Sec 31-44-32

Greenstone No Structure

1050 424 (445) Farm Swamp
 1400 424 (445) End of " "
 1500 438 (460) $\tau = 2^{\circ} W$ 9:55
 75 444 (470)
 1040 427 (450) On track
 1840 422 (445) $\tau = 14^{\circ} W$ 10:05

2012 Struck the line at 1010
 60 paces N of stake ⁴²⁰ (444) on B.M. 423.57



Set Am on B.M. ⁴³³ 436.71 At. 28.74
and started north at 10:30 am on 1/8 line
Good Hardwood $V = 4^{\circ}30' E$

100 425(430)

325 474(480)

500 483(490) $V = 2^{\circ} W$

600 472(480) burnt but not

700 471(480) very bad

50 495(505)

1000 454(465) $V = 12^{\circ} W$ 11:10

1100 448(460)

1200 462(475) On Track Conglomerate (#123)

1400 48(450) burnt - fairly

$V = 3^{\circ}30' W$

1550 465(480) Turn Swamp 11:40

78

Rock running east

1635 465(480) End of Swamp 12:10

$V = 2^{\circ} W$ All Burnt Ten. An

1700 478(495)

1800 485(505) Conglomerate (#123)

25 473(495) $V = 3^{\circ} W$ 12:15

2000 492(515) Conglomerate (#123)

Struck the line 15 paces east
of stake

Started on second mile at 12:20

00	512(535)	V = 10 W	
50	526(550)	Good Hardwood	
150	485(510)		
200	499(525)	Turnt Hemlock	
300	478(506)	Hemlock Podocarpus	
500	V = 20 E 477(506)	Low Land	
700	496(525)		
900	495(525)		1.05
1100	494(525)	V = 0° 30' S	
1225	495(525)	Good Hardwood	
1350	472(505)	Conglomerate (#123)	
1500	456(490)	V	
1600	490(505)	V = 0° 30' W	1.35
1700	524(560)	Top of Conglomerate (#123)	
1800	473(510)		
2030	462(500)	Struck the line	

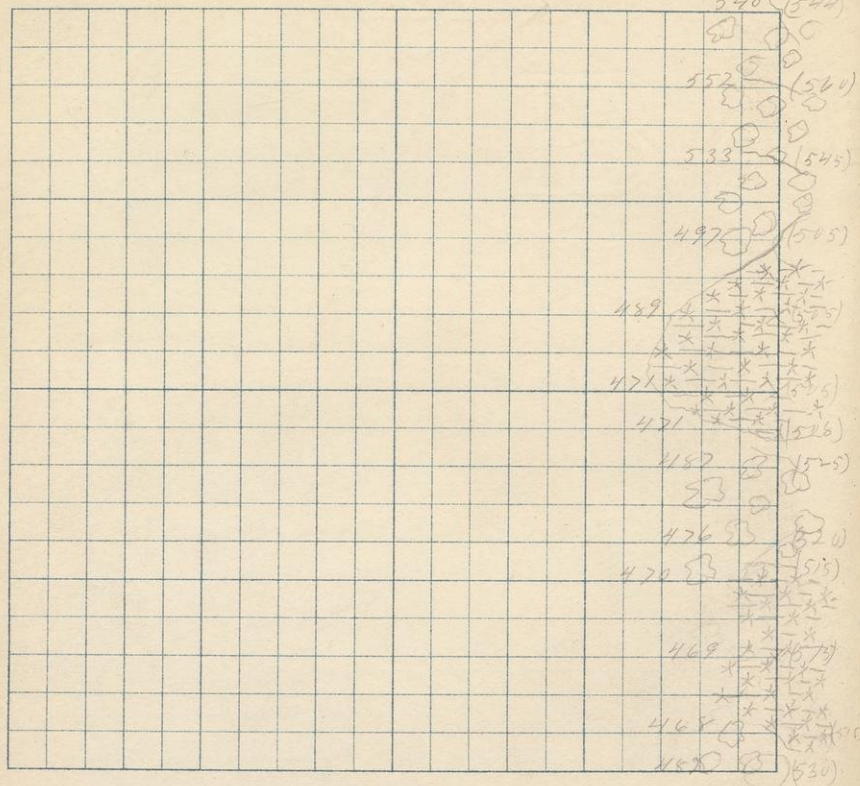
20 paces west of stake at 1:50

on B. M. 451.32 447(486)

Camp. A. 28.79

No 1 28.69

S. 25 T. 114 R. 33



Camp Am 28.71

21.45

No 1 28.62

Set Am on BM 501.24 Ab. 28.56

This B.M. is on (or near) the track.

B.M. at Cr. is (544.15) - 540

Started south on Town line at 8.05
Good Hardwood

200 552 (560)

400 533 (545)

600 497 (505) ~~Hardwood~~ Cedar

800 489 (505) Very low Swamp

995 471 (505) 1/4 Post 8.15

1125 471 (508) End of Swamp

Hardwood and Hemlock

1175 487 (525) Good Hardwood

1400 476 (520)

1450 470 (515) Town. & Cedar

525 1/4 post

1700 469 (515) $r = 7^\circ W$ 9.15

1900 468 (515) End of Swamp

20.15 482 (530) Corner



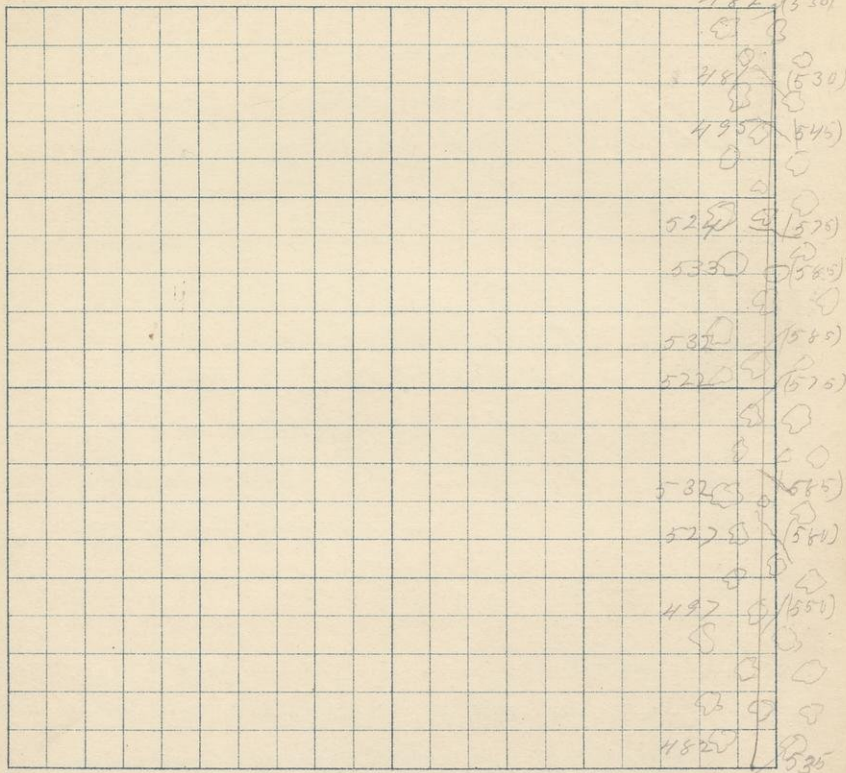
S. 36

T.

44

R.

33



Started south on second mile at 9:25
 $\gamma = 14^\circ W$

200	481 (530)	Hardwood	$\gamma = 8^\circ 30' W$
325	495 (545)		$\gamma = 13^\circ W$
600	524 (575)		$5^\circ W$
675			$1^\circ W$
700	533 (585)		$1^\circ 30' E$
800			$6^\circ W$
875	532 (585)		$10^\circ W$
1000	522 (575)	10:08 AM	$\gamma = 5^\circ W$
1100			$2^\circ 30' W$
200	532 (585)		$4^\circ E$
400	527 (580)		$6^\circ E$
600	497 (550)	10:30 AM	$\gamma = 7^\circ E$
954	482 (535)	Struck the lake	
at 10:40		80 paces west of Statue	
		472 (525) on B.M. 475.86	

Went west to 1/2 post.

78



S.

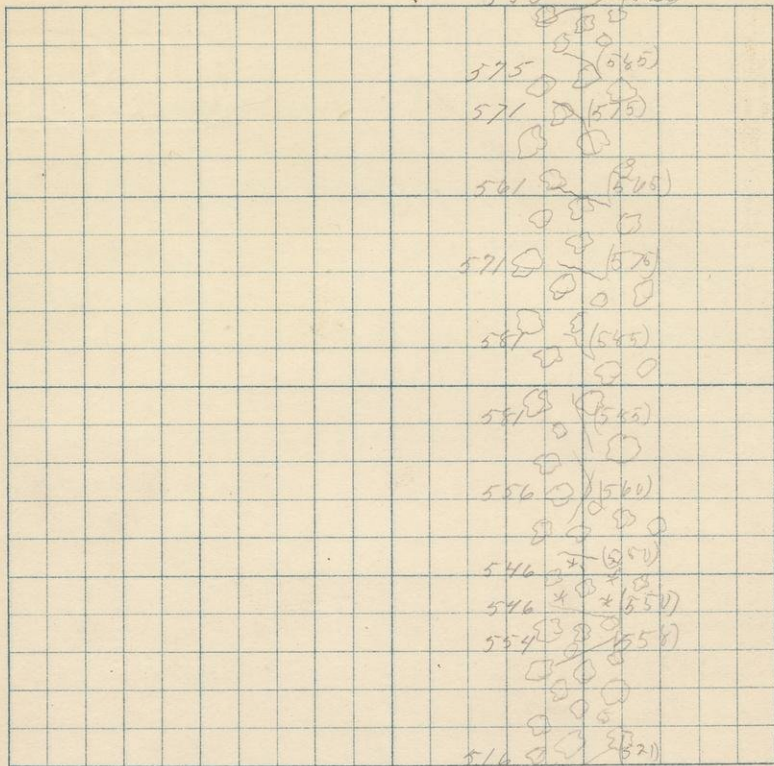
36

T.

44

R.

33



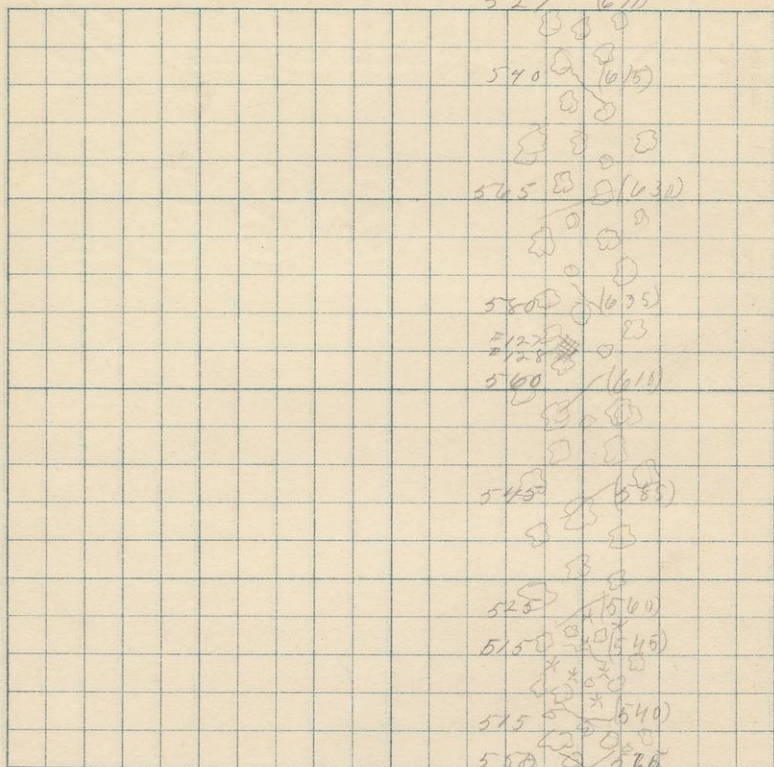
Set Am on B.M. ⁵¹⁶(524.16) At. 28.5 (10.55)
 and started north at 11.15 on $\frac{1}{8}$ line
 Good Hardwood - clinic $r = 40^\circ E$
 300 554 (558) 11.25
 400 546 (550) Hemlock Hardwood
 550 Clinic Hardwood ⁵⁴⁶(550) $r = 50^\circ E$ 11.30
 700 556 (560) ..
 900 581 (585) $r = 40^\circ E$ 11.45
 1100 581 (585)
 1300 571 (575) $r = 30^\circ E$
 1500 561 (565)
 700 571 (575) $r = 50^\circ 30' W$ 12.10
 850 575 (585)
 900 $V = 70^\circ W$ 12.15
 2020 550 (560) $r = 30^\circ W$ Sin

S.

25

T.

R



Started on second mile at 12:25

150 Saw sand ⁵¹⁵ (540) Hemlock Hardwood

300 515 (545) Hemlock & Cedar

425 525 (560) Chin. Hardwood

700 545 (585)

1000 560 (610) 1 Ph.

#127 1100 N. 525 W. S.E. 1/4, Sec 25 44 33

#128 (127) Compact Greenstone, No structure
(128) conglomerate

250 580 (635)

1500 565 (630)

1800 540 (610)

1990 527 (611) on B.M. 531.08

at 1:35 PM

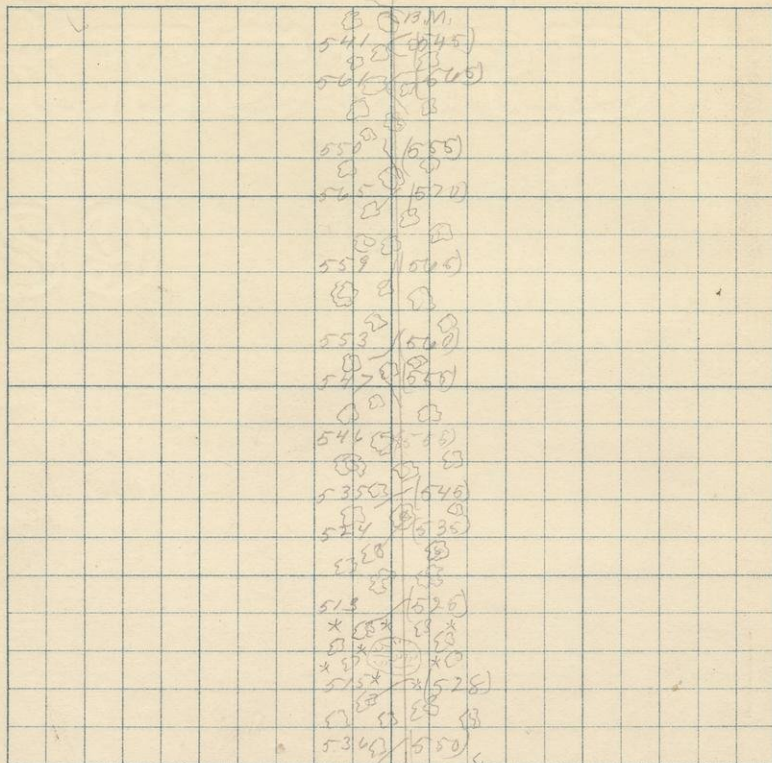
Camp. R. 2857

2 Ph.

N01 28.49

82 ✓

S. 25 T. 44 R. 33



June 29

Sent in Specimens #119 to #128

Camp Am. 28.3

7:45 AM

Nov 1⁵⁶² 28.22

(80) Set Am. on B.M. (566.49) Ab. 28.095

and started South on pipeline at 8:15

Good Handwood $V = 5^\circ W$

100	541 (545)		
200	561 (566)		
400	550 (555)		
500	565 (570)	$V = 6^\circ W$	8:30
700	559 (565)		
900	553 (560)		
1000	547 (555)		8:40
1150	546 (555)	$V = 13^\circ W$	
1300	535 (545)	$V = 6^\circ 30' W$	
1400	524 (535)	$V = 4^\circ W$	
1600	$V = 3^\circ W$ 513 (525)	Handwood & Cedar	
1720	Center of Meadow Marsh		
1800	$V = 6^\circ E$ 515 (528)	Handwood	
1970	536 (550)	Struck the	

35 paces East of Stake at 9:10

Started South from stake at 915
Good Hardwood $V =$

0 531 (545) $V = 9^{\circ} E$
200 560 (575)
400 574 (590)
500 558 (575) $V = 4^{\circ} E$
600 553 (570)
700 $V = 2^{\circ} 30' E$

800 557 (575)
1100 566 (585) $V = 2^{\circ} E$ 9145
1200 570 (590) $V = 4^{\circ} E$
1400 564 (585)
1600 528 (550)

1685 . Road - Pine & Hardwood

1800 532 (555) $V = 3^{\circ} 30' E$
2005 551 (575) Struck the
line at 10' 15" - ~~at 100~~ 100 paces
west of B.M. ⁵⁶⁰ 568.53. An. (583)

Went west to 11/4 post

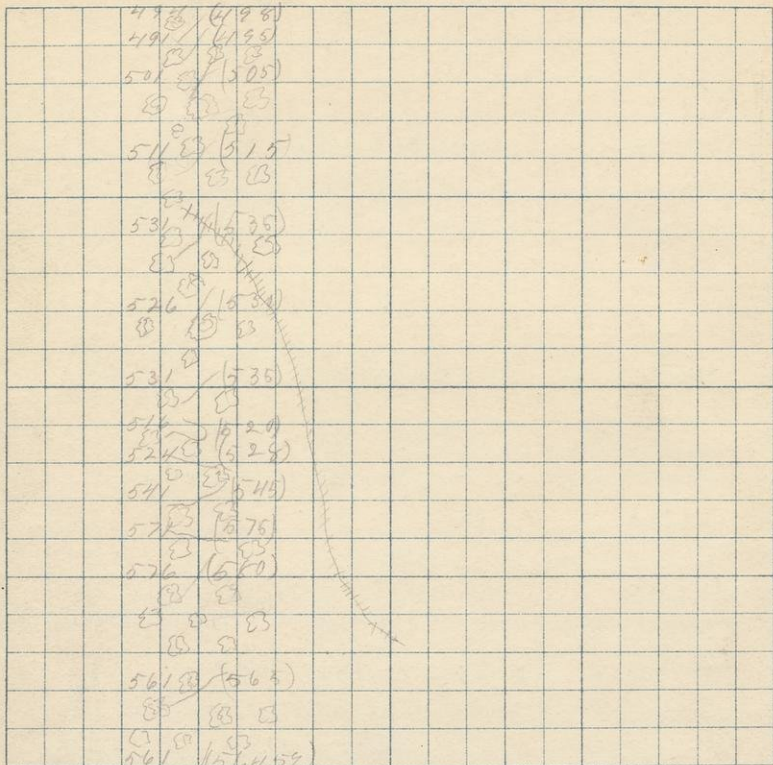
86 ✓

S.

T.

R.

33



Set An. on B.M. ⁵⁶¹ 564.5% At. 2808
and started north at 10130

Good Hard wood $r = 2^\circ E$

200 561 (565)

500 576 (580)

600 571 (575) $r = 2^\circ 30' E$

700 541 (545)

800 524 (528)

875 516 (520)

1000 531 (535) $r = 3^\circ E$ 1105

1200 526 (530)

1400 531 (535)

25 Road $r = 4^\circ E$

1600 511 (515)

1800 501 (505)

1900 491 (495)

1950 494 (~~498~~) Struck post

S. 25 • T. 44 R. 33

581 (555)
576 (540)
541 (5415)
536 (544)
541 (545)
531 (535)
541 (550)
514 (520)
* 21 (525)
541 (550)
531 (535)
551 (555)
541 (565)
534 (5410)
194 (1195)

Started on second mile at 11:45

200 536 (540)

75 $V = 1^\circ E$

400 561 (565) $V = 4^\circ E$

600 554 (558) $V = 1^\circ E$

750 () $V = 5^\circ W$

800 531 (535) $V = 15^\circ 30' W$

875 546 (550) $V = 18^\circ W$

1000 521 (525) $V = 16^\circ W$ 12:20

some cedar in low spot.

1100 576 (520) Burnt Hardwood

1275 546 (550) to the west

1300 531 (535) $V = 6^\circ W$

1400 541 (545) Good Hardwood

185 tree flaged in 4 sides (Cn. 18)

1500 536 (546) $V =$

1600 541 (545)

1700 546 (576)

1850 576 (580) $V = 9^\circ 30' W$ 12:50

2002 581 (585) Struck the

line on 12:55 40 paces west
of Cn. on on B.M. _{57x} (578.21) (578.21)

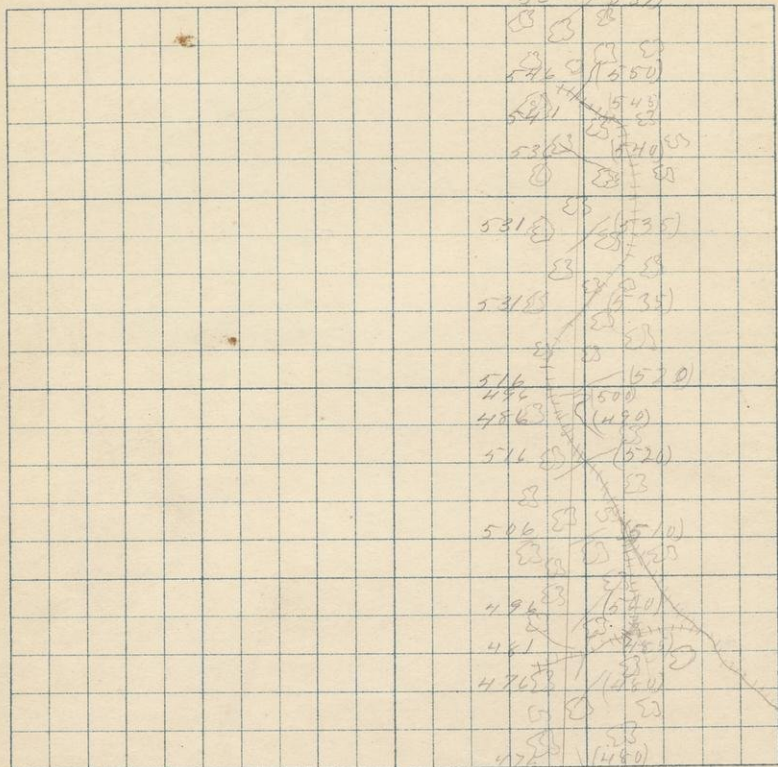
Camp An. 25.3

101 25.22

S. 26

T.

R.



June 30 91

Camp in 28.4

7:30 AM

No 1 28.32

Set in on B.M. ⁵³³(536.53) at 28.19

and started south on $\frac{1}{4}$ line at 8:15

Good Hardwood

200 546(550)

245 541(545) Road

400 536(540)

600 531(535)

800 531(535) road

1000 516(520)

8:40

25 496(500) (along river)

100 486(490)

1200 516(520) road

1400 506(510)

1600 496(500)

1700 481(485) Road

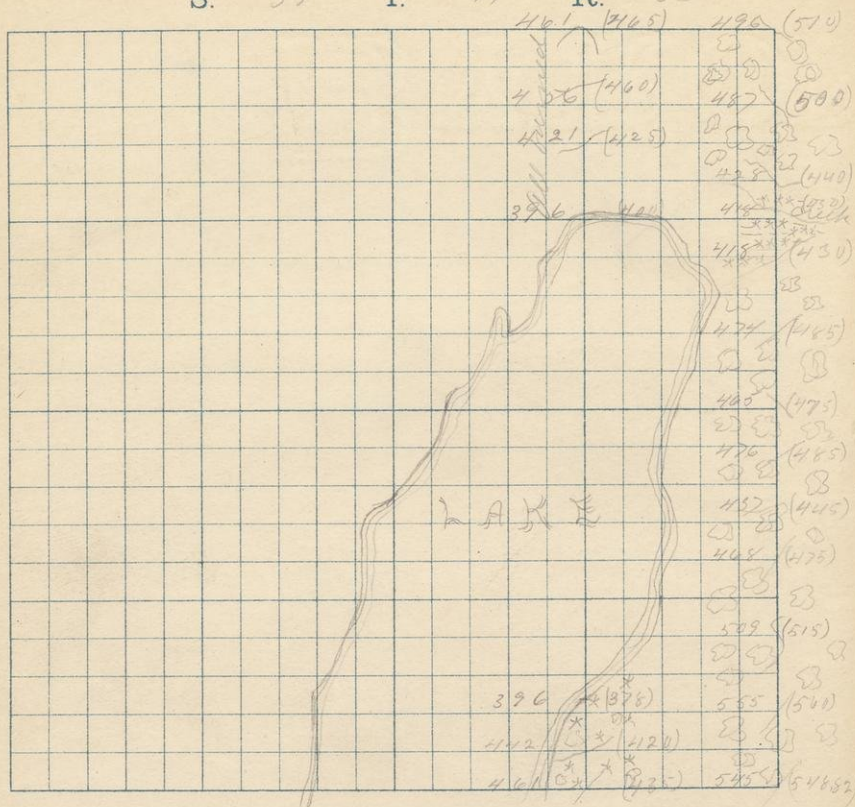
1800 476(480)

2000 476(480) All turned down

50 Struck line at 9:20

70 paces west of stake

S. 35 T. 44 R. 33



Started south on second mile at 9:25

00	461 (465)	Slake	
150	456 (460)		
300	421 (425)		
475	396 (400)	Edge of Lake	9:41
	(394)	water at	10:05

Started from $\frac{1}{4}$ post and went north to lake.

00	461 (435)	on B.M. 464, 51 - 10:10	
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Nearly all Hemlock

100	442 (420)		
225	396 (378)	Edge of Lake	10:15

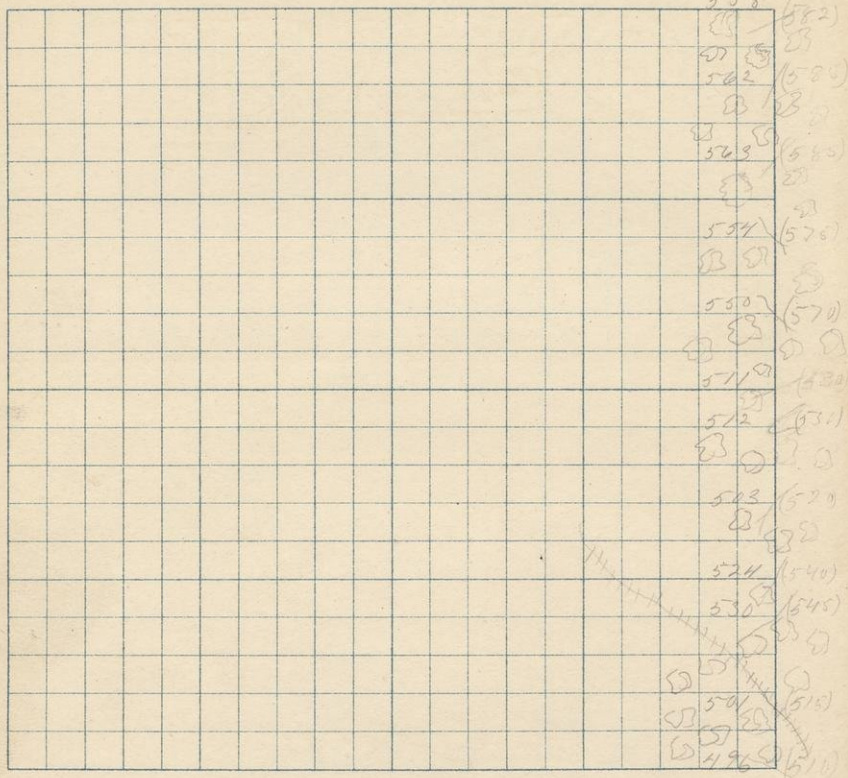
Set An. on B.M. ⁵⁴⁵ (548.12). Ab. 28, 21

and started north on Sec line at 10:30

Choice Hardwood.

200	555 (560)		
400	509 (515)		
600	468 (475)		
725	437 (445)		
875	476 (485)		
1020	465 (475)	$\frac{1}{4}$ post	11 am
200	474 (485)		
400	418 (430)	Cedar + Balsam	swamp
525	418 (430)	Creek flows west	
600	428 (440)	Good Hardwood	
800	487 (500)		
1980	496 (510)	Struck Stone	11:40

S. 26 T. 114 R. 33



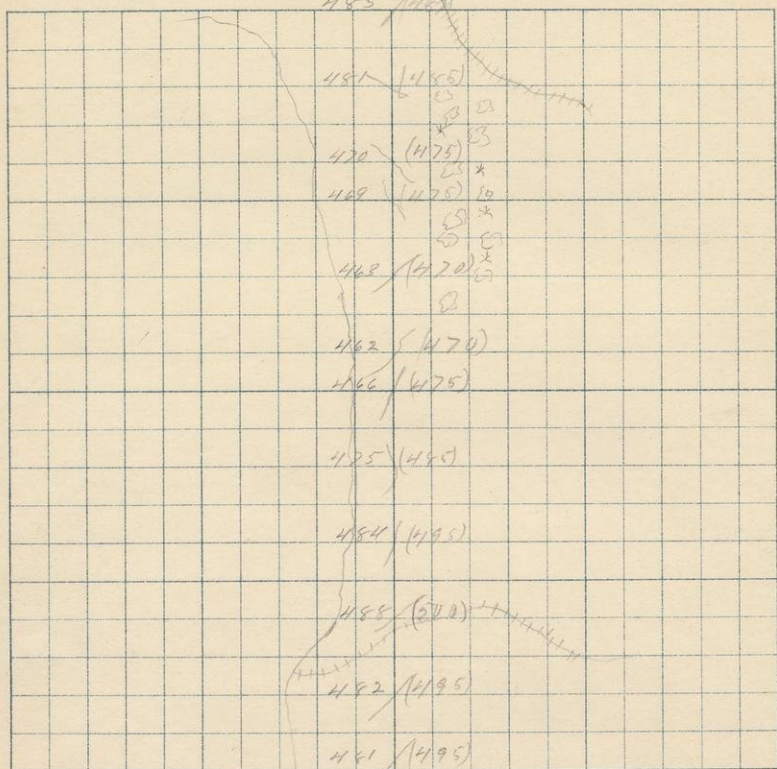
Started north on second mile at 11:40

0	496 (510)	
160	501 (515)	Road
400	530 (545)	
500	524 (540)	"stake burnt
700	503 (520)	West of line about 400 ft.
900	512 (530)	
1100	511 (530)	12:15
200	550 (570)	
1400	554 (575)	
1600	563 (585)	$r = 5^\circ W$ by dial
1800	562 (585)	$r = 1030' N$ "
1970	558 (582)	on BM 56178 at 12:45

Camp An. 28,89
No 1 2832

1 PM

S. 26 T. 44 R. 33



Camp. Am. 28.56

7:25

No 1 28.48

Set Am. on B.M. ¹⁸³ (486.58) Ab. 28.4and started South on $\frac{1}{4}$ line at 8 Pm.

Burnt Hardwood

200 481 (485) Good Hardwood to East

400 470 (475)

500 469 (475) $\frac{1}{8}$ post

700 463 (470)

800 Burnt Hardwood

900 462 (470) Tamarack

1000 466 (475) and Cedar 8:30

200 475 (485) Swamp

400 484 (495) 50 to 100 paces west

600 488 (500)

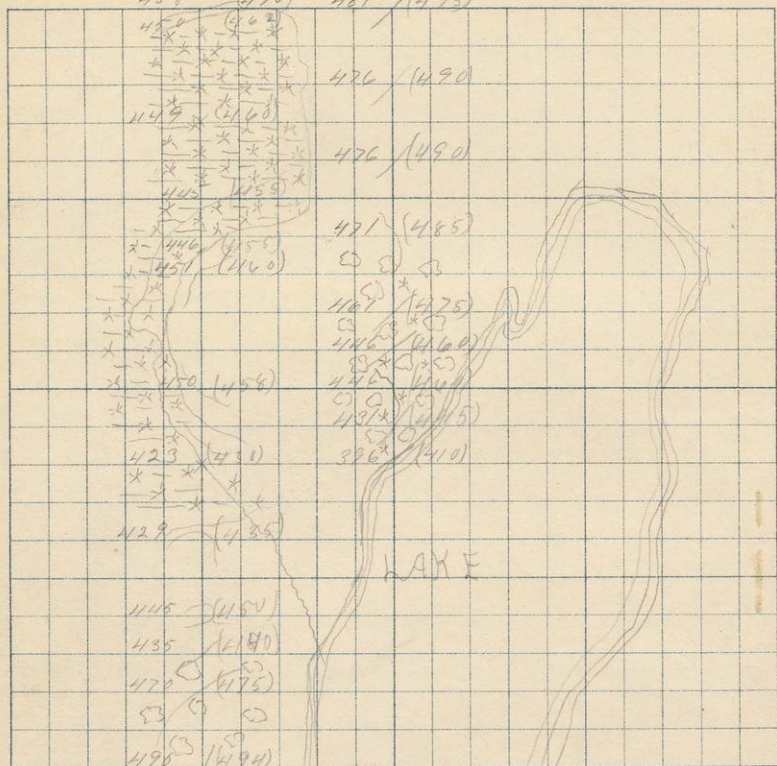
615 Road

800 482 (495)

960 481 (495) Struck $\frac{1}{4}$ post 8:55

35

44



Started on second miles at 8:55

	0	481 (495)	
300	200?	476 (490)	
	400	476 (490)	
	600	471 (485)	
	725	Good Hardwood	
	800	461 (475)	
	900	446 (460)	
	1000	446 (460)	9:15
	100	431 (445)	
	<u>95</u>	396 (410) Edge of Lake	9:25
800 = 2805		(505) on B.M. (494.39)	

Set Am. on B.M. ⁴⁹⁰(494.39) Alt. 2838

and started north on 1/2 line at 10 AM

Good Hardwood

	200	470 (475)	
	300	435 (440) Cedar & Maple	
	400	445 (450) scrubbed by fire	
	600	429 (435)	
	625	Tame & Sh. Alder Swamp	
	800	423 (430) Creek runs South	
	825	End of Swamp	
	1000	450 (458) Forest	10:25

Tamarack and Cedar 100 yds all west

	1300	451 (460)	
	50	446 (455) Tame Swamp	

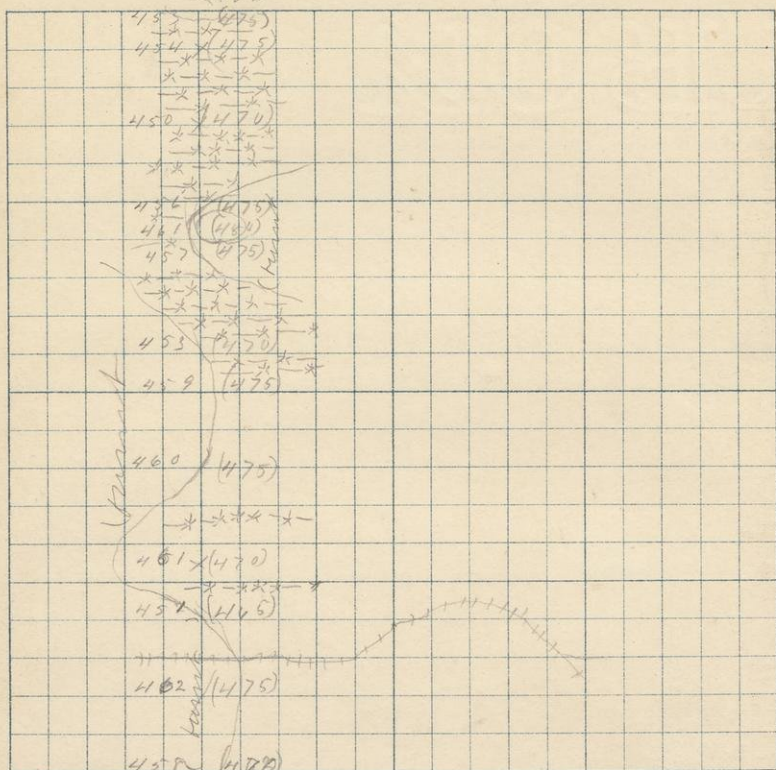
465 S. 26

T.

44

R.

33



1460 445 (455) Creek running west
 Cedar and Tamarack
 700 448 (460)
 7000 456 (462) End of Swamp. (burnt)
 2025 458 (470) 17 paces east of Stake
 Started north on second mile from Stake at 11:00
 200 452 (475)
 300 Road
 400 451 (465) Cedar & Tamar. Swamp
 550 461 (470) All. burnt "
 800 466 (475) 11:30
 1000 459 (475) Swamp east 50 paces
 1100 453 (470) "
 350 457 (475) End of " (turning)
 400 461 (480)
 475 456 (475) Swamp
 700 450 (470) 12 M
 900 454 (475)
 975 453 (475) End of Swamp
 2010 465 (485) Struck the line
 at 12:20 - 55 paces west of Stake
 455 (479) m B.M. (458.99)

Camp An. 28.52
 No 1 28.44

Blank Pages

102-117

Skipped

391,34 in B.M.

50 - 377 Edge and level of water in lake

Rise in level from Pond to Lake
2 45 P.M.

60	357	(360)	swamp
100		(385)	Hunt & Ward
130		(370)	
200		(380)	
225	343	(354)	Water level in Lake

2120

(440) top of Hill

20'

$\frac{3}{2}$ 5

4

2

$14\frac{1}{2} = 58$

10'

