



## **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

Harrington

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  $3^{\circ}$  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 ninetieth 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.

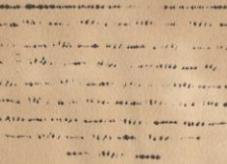
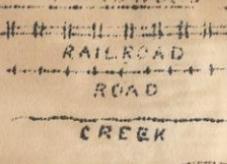
It will be the constant business of the geologist to search for outcrops. All hills within a reasonable distance of the course of travel will be examined. Oftentimes upon the steeper slopes of a hill a rock surface is covered with a coating a few inches thick of moss, leaves or vegetable mold and can 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 SWAMP</p>	 <p>SPRUCE OR TAMARACK SWAMP</p>	 <p>BIRCHWOOD</p>	 <p>PINE OR HARDWOOD AND HARDWOOD</p>	 <p>CEDAR SWAMP</p>
 <p>SPRUCE OR TAMARACK SWAMP</p>	 <p>MARSH</p>	 <p>RAILROAD ROAD CREEK RIVER</p>	 <p>NO STRUCTURE</p>	
 <p>NEARLY MASSIVE</p> <p>↓ 55° S.</p>	 <p>AN. 38° E N. 5.62° E SHALY OR BEDDED</p>		 <p>783°</p> <p>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				

Lot 7

## 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

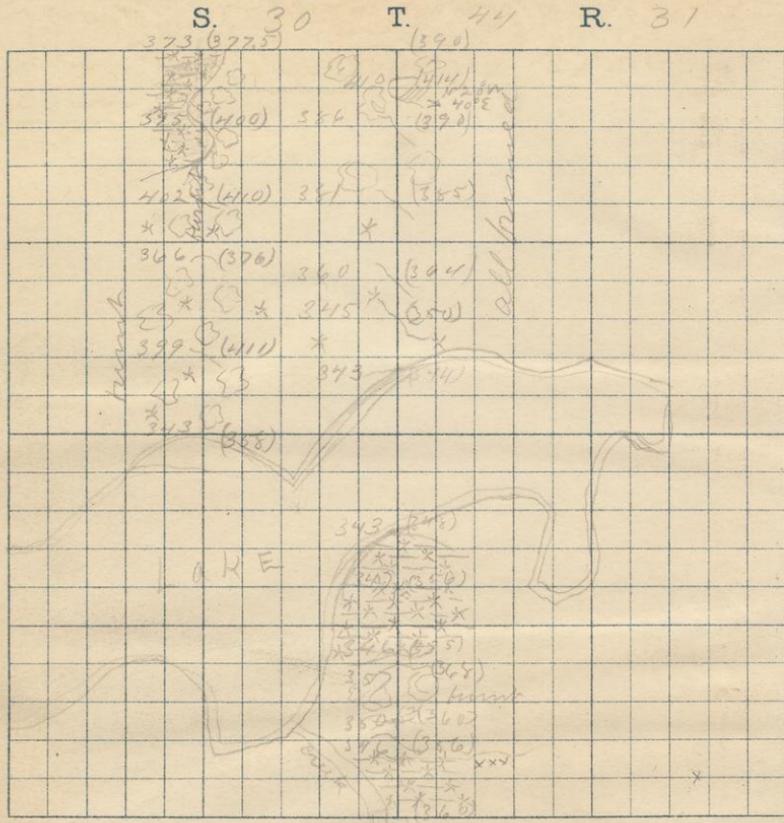
Book No 2

Geologist - F. J. Vanniman  
Companion - Anna Bullard

SPECIMEN = 107 - 128

TOWN 44

RANGES 31, 32, 33



Notes of W<sup>1/2</sup> line from Sec. line north to the  
Lake - Taken by Phillips June 17

00	13M (377.5)	Calm overamp	1,105
100	395 (400)	End of " " (burnt)	
200	395 (400)	Calm & Cedar "	
250		Dead, heavy cedar	
290		Burnt	
400	402 (411.0)	"	
500		Mixed Hardwood (Maple)	
540	366 (376)	Min. Burnt	
800	399 (411)	Hemlock & Hardwood	
1000	343 (808)	Lake	1,135

(See Map See above)

Camps. On No 8 28.65 70m

On 1 - 28.56

Set Am. at 389.67 on 13 m. 8<sup>th</sup> - 19  
Alt. 28.53 and started South at 8 a.m.

100 410 (411 4) Burnt Hardwood

# 107 125 - 0 Strata N. 20° W Dips 40° E.

A small outcrop of dolomite 30-29 ft

2

200 386 (390)

400 ( ) 381 (385) Burnt Pine + 7 am.

600 360 (364)

700 345 (350)

825 343 (344) Water level 8:30

1275 (called) 343 (348) 9:50

1400 347 (356) Tan. Swamp

580 346 (355) End of ..

600 357 (364) Brown of Hill

750 330 (340) Burnt Pine

800 346 (356) Crows of Hill

30 Swamp Fog

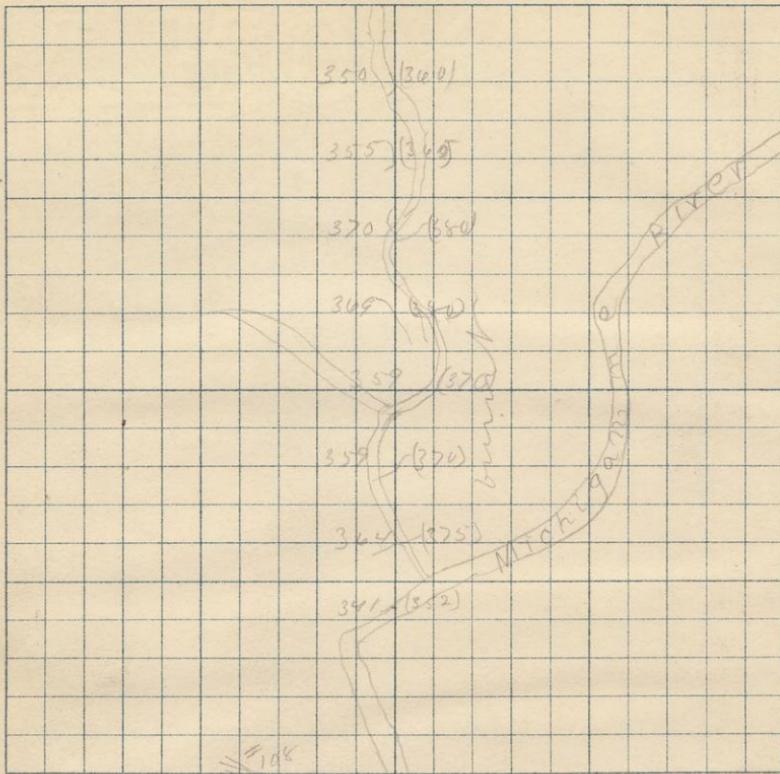
1995 350 (360) 1/2 pt + 30 paces

East of line 10:20

# 107 1875 N. - 1000 W - A small out-  
crop of dolomite, about 30 sq. ft.  
Strata N. 20° W Dips 40° N 70° E

4

S. 31 T. 44 R. 31



Started on Second Mile at 10:30

0	350 (361)	Wheelfall of Tan, etc.
200	350 (360)	
400	355 (365)	
600	370 (380)	
700	Bridge crossing River	
800	369 (381)	Brunt 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. (348.81)

#108 N. 0 - W. 1400 of S. E. Cor. 31 - 44 - 31  
Strike N  $80^{\circ}$  W. Dip  $80^{\circ}$  S  $20^{\circ}$  N  
A large hill of dark fine  
grained act greenstone

S. 31 T. 44 R. 31

362 (372)  
X X  
365 (375)  
X X  
365 (370)  
358 (342)  
357 (345)  
373 (380)  
373 (380) *young*  
362 (368)  
362 (368)  
375 (380)  
357 (362)  
X X X X  
358 (362)  
X X X X  
X X (368)

3641 f 7108  
Cimarron  
Greentree

Started N. at 12:15  
Set An. on B.M. <sup>36"</sup> (367.93) at 28.54

Hemlock and Cedar

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

Mixed Cedar, Hem. & Birch

1000	373 (386)	Burnt	12:40
1200	373 (380)	Road	
80	357 (365)	in Horbrant	
1400	354 (362)		
1500	338 (340)	Waterlud & Creek	
30	335 (340)	" "	Creek
1700	366 (375)	Hem. & Hornbeam	
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



10

S. 36 T. 44 R. 32

Started transects from "spur in water  
 Elevation of water (360) 343 at 4 P.M.

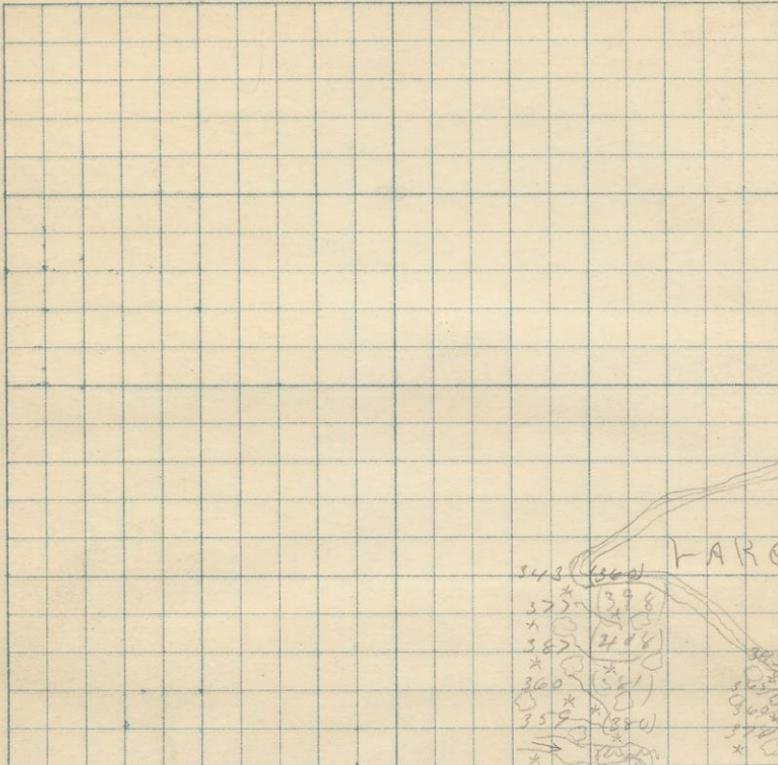
100	379 (400) Hemlock
200	399 (420)
325	448 (470) Map
400	407 (428)
(600)	409 (430) :
700	399 (420)
800	364 (385) Tann, Dwarf
1000	359 (380) Eng. 11 " 4:35
1200	369 (390) Hardwood
1400	379 (410) "
600	388 (410) Road
1600	369 (390)
04	Edge of Water
1620	353 (370) Water level 3710
1700	354 (370) Black Elder
1800	355 (376)
1911	357 (376)
90	359 (360) Sod.

#110 N 300 - W 500 D white

Strike N 70°W Dips 80° S 20°W  
 A large hill of compact  
 Greenstone.

12 ✓

S. 25 T. 44 R. 32



35	Edges River <del>BB</del> (370)
130	359 (380)
200	360 (371)
300	387 (381)
400	377 (398)
70	343 (360) Water Edg <sup>5:45</sup> + Sull

For rest of notes on this  
line see page 15

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

June 12.

00	357 (360)	2:15 P.M.
100	378 (385)	Hemlock + Hardwood
130	360 (370)	
200	365 (380)	
225	343 (354)	Edges of Water 2:20

14

S. 25 T. 44 R. 32

358	(262)
364	(268)
376	(250)
376	(250)
369	(229)
367	(271)
369	(272)
406	(248) Burnt
368	(294)
381	(251)
380	(282)
381	(254)
380	(282)
369	(261)
359	(262)

Started from 1/2 Post at 9:20

Set out at <sup>358</sup> (362.05) At 28.55

and run south to Lake

Burnt ground

100 358 (362)

200 364 (368)

300 376 (380)

400 376 (380)

420 367 (370) Swamps

600 367 (370)

840 369 (372) End of Swamps

Burnt Hemlocks & Cedars

900 406 (310.8)

80 388 (370)

9:44.5

1000 Nearly all Hemlocks in Bric

1100 380 (382)

1301 380 (382)

1375 364 (365)

1416 343 (240) Edges of Sedge

343 (250) Water level at 10:30



00	Sake shore	10,10
55	379 (290) Tops of Bank Hem. licks and Cedar	
100	369 (280)	
200	377 (290)	
300	395 (410)	
500	382 (400) Burnt Hem. & Mars	
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) Sime	11,20

Streck line 70 paces East of  
Corner <sup>389</sup> cu. (415) on B.M. 392,62

S. 26 T. 44 R. 32

384 (382)  
385 (382)  
386 (382)  
387 (382)  
388 (382)  
389 (382)  
390 (382)  
391 (382)  
392 (382)  
393 (382)  
394 (382)  
395 (382)  
396 (382)  
397 (382)  
398 (382)  
399 (382)  
400 (382)

Camp. Am. 28, 37

6:30 a.m.

N. 11 28.28

Set Am. on B.M. (40469) Ab 28.238  
and started south on 1/4 line 7130  
Primarily Cedar, some spruce - Birch  
100 386 (390) Cedar Swamp

300 390 (395) End of 11  
Bent Hemlock and Cedar

400 397 (402) All dead

500 349 (395)

50 395 (400)

600 387 (392)

(700) 389 (395)

75 364 (379)

850 385 (392)

990 387 (395) 1/4 part 605

1200 386 (395)

1400 380 (390)

85 1/8 part

White Birch + Poplar under growth

1630 376 (382) Top of River Banks

70 339 (350) Edge of Seal of Water  
Water runs east

1708 339 (350) .. x .. in late

1800 363 (375) Hem. + Cedar

50 398 (410)

1900 382 (395)

1990 386 (400) 10 paces west of 1800

20

S. 35 T. 44 R. 32

Started south from N. Stake at 9 a.m.

Nearly all Birch and Cedar

125	392 (408) Road
200	356 (372) Hollow
85	352 (372) "
325	348 (408) Bay
350	371 (388) Hem & Cedar
500	382 (408)
600	380 (398)
800	386 (408)
975	400 (420)

996	1/4 stake 9:30
1050	414 (435)
200	409 (43.0)
400	398 (420) Wet ground
600	400 (422)
700	417 (411)
800	419 (432)
1994	419 (443) Struck line

22 paces west of Stake at 10:10

on B. M. <sup>419</sup> (422, 95)

Ran west to 1/4 stake.

22

S. 35 T. 44 R. 32

388	(1129)
8	*
395	(1116)
395	*
395	*
372	(396)
385	(391)
402	(391)
395	*
1129	(1140)
*	*
*	*
*	*
*	*
*	*
400	(1116)
395	*
395	*
411	(1120)
395	*
395	*
403	(1116)
395	*
395	*
428	(1130)
395	*
395	*
*	*
412	(1116)
*	*
*	*
*	*
419	(1123)

Set Am. at (423) on B.H. Ab. 2819  
and started North on W<sup>1/2</sup> at 10120

### Most all Hemlock

200	412 (418)	Saw + wet
300	417 (425)	
400	420 (430)	Maple and Birch
600	403 (415)	Birch Hemlock Cedar
750	411 (420)	
900	400 (415)	Cedar Hem. + Balsam

### Lowland Wet

968	118 feet	11:10
1200	428 (4145)	Hard (Maples + Birch)
1400	402 (420)	
175	382 (400)	
1600	377 (396)	
1800	395 (415)	
1920	398 (421)	Rough
990	391 (415)	

S. 395 T. 44 R. 82

Started on 2d mile at 11:30

Most. all Maple

125	391(415)	
200	341(368)	Tan + Bk. Alder low
300	340(370)	
400	335(368)	Open Meadow
50	328(362)	Water level
850 (called)	328(366)	
900	349(390)	Burrs (not timber)
1000	363(408)	12:47
1140	367(410)	
200	340(368)	Tan swamp
75		Emory: 11
1525	365(415)	
1700	380(432)	Mixed timber Hardwood Cedar and Hemlock
1900	386(440)	
2010	395(450)	Struck line
20 paces East of 11 <sup>th</sup> station	398.79	1:20
on B.M.		

Arrived at Camp at 2:18

Camp on 28.30

1st 28.21

26 ✓

S. 27 T. 44 R. 32

		404 (405)
		396 (410)
		405 (412)
		431 (435)
		382 (380)
		371 (375)
		374 (375)
		376 (376)
		341 (341)
		350 (350)
		371 (371)
		360 (360)
		650 (650)
		368 (368)
		375 (375)
		410.5 (410.5)

Camp 28,4

7145

No 1 28,34

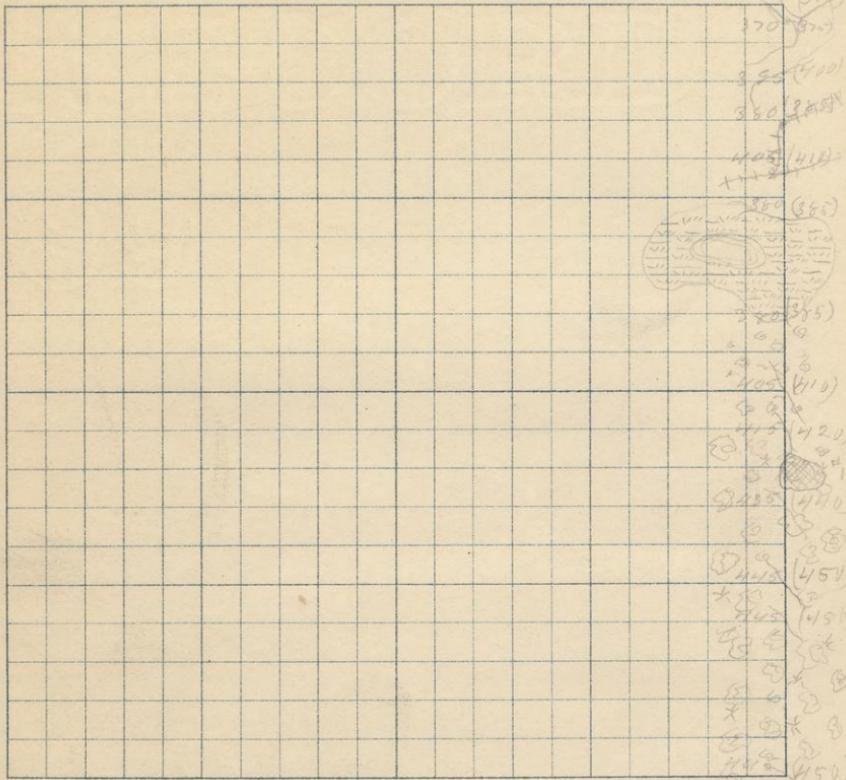
Sellam on B.M. (B 95:41) Lat = 28.24  
and started south of Secline at 835  
100 401 (405) Burnt Timber  
200 396 (400)

# 111 N. 1500 - W 20 Compact greenstone  
The outcrop was too much crumble  
to make out any structure  
two small of boulders

500	408 (412)
600	431 (435) clay
625	386 (390)
800	371 (375)
85	371 (370) Burnt Hill
925	346 (350) foot " 9120
1020	344 (344) Edge of Water Watercourse East
1040	344 (344) " " " " "
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

28 ✓

S. 3.4 T. 44 R. 32



Started 3 miles on second mile at 10:20

25	370 (375)
125	370 (375)
80	395 (400)

\*112 N 78° E, 10 small outcrops of compact granular, less siliceous

300	380 (385)	Road
455	415 (410)	"
560	380 (385)	Meadow marsh
630	385 (385)	End of " "

Second growth mixed (Cider, Henry etc.)

1000	405 (410)	440 lake	1100
1100	415 (420)	Hardwood (Maple)	
1300	435 (4140)		
1500	445 (450)		
1400	445 (450)		
2010	445 (450)	on B. Rd. 44865	
	at 11:30 A.M.		

\*113 N 0° W 5° Outcrop of \_\_\_\_\_  
Could not get at the structure

30

S. 34 T. 44 R. 52

377	(340)
369	(375)
*	*
3*4	(370)
*	*
*	*
372	(380)
3*	41
0	*
*	37
(372)	(380)
345	(350)
0	0
1145	0
445	(370)
445	(370)
*	37
303	3
455	(460)
*	*
1140*	114
*	*
114	(112)
*	*
1104	(1126)
*	*
1102	(1127)

385 ab 2:30

Set

Set Am. at 4107.93 on B.M.

At 28.72 and started  
north at 12:10 on  $\frac{1}{2}$  line  
Tamarack Swamp

175 404(408) End of swamp

Hemlock and Cedar

300 416(412.0)

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

350 426(418.0)

400 480(418.5)

600 455(416.0) Hardwood

800 465(47.0)

1000 465(47.0)

18m

150 414.5(415.0)

1201 419(42.5)

25 Road

1400 374(38.0) Tamar. Swamp

1510 374(38.0) End of " "

30 379(38.5)

1600 364(37.0) Hem. &amp; Cedar

80 364(37.0)

1700 369(37.5) Burnt 7 1/2 m

1900 374(38.0) 1.50

1941 378(38.5) struck line 1800 m. 23.0

32

S. 27 T. 44 R. 32

346	(370)
351	(370)
346	(375)
352	(375)
377	(385)
372	(385)
377	(385)
379	(385)
372	(385)
337	(370) River
343	(370)
365	(372)
378	(385)
378	(385)

Run North from "c" station on  
2150

0 378 (385)  
200 378 (385)

375 Road  
400 365 (372)  
500 343 (350)  
600 337 (340) Edges level of Water  
630 337 (340) water regular East  
700 342 (350)  
900 379 (385)  
1100 379 (385) 3:10  
1200 379 (385)  
1400 379 (385)  
50 352 (365) I am swampy  
550 368 (375) end of "  
600 381 (390)  
1800 386 (395)  
91.0 386 (395) stuck the  
1961 Since 10 pace East of Stake 3:40  
On B.M. 386 (395) 139.390.23

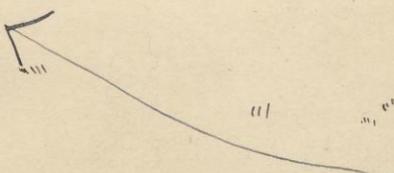
Camp Acre 28.34

No 1 28.25

S. 28 T. 44 R. 32

3844	78015 7805000	F 118
3881	(3881)	
3855	(3855)	
3625	(3625)	
3779	(3779)	
347	(347)	
3571	(3571)	
X	X	
X	X	
X	X	
X	X	
3535	(3535)	
3855	(3855)	
3721	(3721)	
383	(383)	
465	(465)	115
308	(308)	
476	(476)	
473	(473)	
130	(130)	
1450		
6000000		
116		

116



Camp Am. 28,41 8 AM

No 1 28,32

Set Am on B.M. (347,00) Ab. 28,32  
and started south on the line at 8,20  
150 388 (390) - Tops of Bluff

All burnt timber

300	385 (385)
350	362 (360) Hollow
400	379 (375)
700	387 (380)
800	354 (345) Rain. Dwarfs
1000	357 (345) (0) 10°W. 8,80
1100	364 (350) End of Second
75	377 (562)
1375	393 (385)

# 115 600 N 1050 W of S. E. on Sec 28 T 44 N -  
R. 32 W. A large hill of limestone  
? Strike N. 80° W, Dip 65° N 10° E

111 1500	465 (445) W of Ranch
1650	408 (385)
1825	476 (450)
1900	453 (425)
75	430 (400) 9,55

2000  
# 116 0 N (1000 W) 2

8. Co. 28 - 44 - 57

W. end of a limestone  
? Strike N 45° W Dip 60° N 45°

36 ✓

S. 33 T. 44 R. 32

491	(460)
462	(470)
483	(460) 100pm 117 7594008
412	(365)
390	(355)
382	(380)
382	(350)
383	(350)
415	(375)
392	(350)
388	(340)
388	(340)
388	(340)

Began on second mile, could not find line.

100 491(400)

400 467(435)

575 483(450)

3.8. on 33-44-32

\* 117 1300 N 95° V on Orlange Knob, becoming

Strike N 40° W Dip 25° S 110° E

700 4129(385)

10:35

800 390(355)

1100 387(350)

20 377(340)

55 377(340) creek

75 387(350).

1325 4115(375)

1500 3882(350)

11 a.m.

>50 388(345) Cedar Swamp to west

1900 399(348) end of.

81 400(355) Struck line 11115

55 paces N<sup>3</sup>1(385) on B.M. 43522

38 ✓

S. 33 T. 44 R. 32

483	(480)		
458	(455)		
442	(440)		
457	(455)		
457	(455)		
412	(415)		
451	(450)		
410	(400)		
410	(400)		
431	(430)		
414	(410)		
412	(410)		
368	(370)		
312	(320)		
588	(570)		
378	(380)		
392	(395)		
397	(400)		
386	(390)		
386			

Set on on Blk (3894) Oct. 28, 5.75  
and started north on  $\frac{1}{4}$  mile at 2:05  
 $\frac{1}{8}$  stakes in swamps  $V = 3^{\circ} E$

75	386 (390) End of swamps
160	397 (400)
300	392 (395)
475	378 (380) Hollow
600	388 (390)
50	369 (370)

65 Creek

700	369 (370)
800	400 (400)

#118 950 N 16 10 W of S.E. Cor. 33-44-32

No structure could be made on  
a large hill Greenstone weathered

950	440 (440)
1025	481 (480)
1200	466 (468)
75	481 (480)
1350	451 (450)
75	426 (425) Cedar Hollow
1450	427 (425) End of it .. V 40°
1550	457 (455)
1700	457 (455)
80	442 (440)
1850	458 (455)
2000	483 (480)

40

S. 28 T. 44 R. 32

391

395 (345)

394 (345)

368 (340)

382 (375)

386.5 (371)

421 (415)

415 (410)

405 (410)

419 (418)

429 (425)

488 (485)

Commenced 2nd mile

80	468(485)
200	429(427) -
400	419(418)
75	465(460) -
550	415(410)
750	421(415)
975	386(380) Undulating
1300	382(375) <del>Heads</del> $V = 60^{\circ} 30' E$ 2:20
1500	368(360) $V = 0^{\circ} E$
1700	394(388)
1650	395(388)
2004	396(385) struck the line at 2:45 - 60 paces west of On B.M. 38544 381(370)

Camp A. 28.5 at 3700 ft.  
Alt. 28.4

#119(2) 1900 N 950 W of S.E. Cor. 28-44-32

A small outcrop of sedimentary  
rock. Strike N. 30° W.

Dip 70° S. 60° W. This was  
taken near the Camp and is  
similar to an outcrop on E 1/2 line  
about 1 mile south. About 400 ft.  
in bread.

42

S. 29

T. 114

R. 32

416

40  
(432)

425

420

424

423

422

421

420

419

418

417

416

415

414

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27.9 = 2000

June 23,

43

Camp L. 28.66 7 AM

Mol 28.60

Started from S. E. Cor. Sec 20.  
 at 7'40' and run south on sec line.  
 Set Am. on R.M. <sup>416</sup> 420.27 Ab. 28.53

V 1°W All Hardwood

200 425 (430) Old Cor of Gov.

400 424 (430) :

500 433 (440) Timber all burned

700 422 (430) V = 2°W

800 406 (415) Hollow

1000 450 (440) V = 1°W 8:15

#120 800N - 80°E. S.E. Cor. 29-44-32

A large hill of granite  
 No structure built on it  
 out

1200 428 (445) 8:35

1400 437 (455) V = 5°W.  
 S.E. Cor. 29-44-32

#121 1500N. 20°W. Grey weathered

Strike N 40°W Dip 45° S 50°W

A very small outcrop

1600 446 (470) V 3°W 9:05

1750 489 (475)

2000 522 (540) V 1°W 9:20

44

S. 32 T. 44 R. 32

		572 (540)
		491 (520)
		478 (510)
		447 (470)
		462 (495)
		405 (430)
		378 (415)
		374 (410)
		389 (450)
		388 (450)
		372 (420)
		376 (420)

Started on second mile -  
 188 struck a line (520) <sup>391</sup> ~~80,000~~  $\sqrt{1030' W}$   
 376 478 (570)  
 400 497 (470)  
 450 462 (495)  
 700 405 (430)  
 911 378 (415) 10:05  
 1150 374 (410) Edge of Seelye of water  
 in lake at 10:20

(1) 00 (1630) 374 (410)  $\sqrt{208}$  11:05  
 100 (1730) 389 (430)  
 250 (1880) 388 (430)  
 300 (1930) 377 (420)  
 369 (2000) 376 (420) Struck the  
 line 10 paces west of Cr.  
 On 13 M. 379.58. - at 11:20

Moved west to 1/4 stake since  
 started north

46 ✓

S.	32	T.	416	R.	32
			406	406	
			385	385	
			383	383	
			380	380	
			384	384	
			376	376	
			371	371	
			385	385	
			380	380	
			402	402	
			418	418	
			415	415	
			380	380	
			370	370	
			396	396	
			381	381	
			394	394	

(Boulders Windfall Island)

Lake

370

370

370

Start at	11135	$V = 130^{\circ} E.$
Set Am at	398109	on Bpm Ab. 28.51
150	381(385)	
200	396(400)	
215	370(370)	Edge & Seed of 15 acre
415 (called)	370(370)	" " " " 1,12M
145	430(435)	Top of Lyconia Knoll
485	404(410)	Bumtpine
650	402(410)	B
800	380(390)	
950	374(386)	
1000	376(390)	$V = 4^{\circ} E$ 12'30
1200	384(400)	This is all windfall of Oak
1360		Creek flowing East
1400	380(400)	Creek West
1700	383(408)	End of Windfall
	Bumtpine	1120
1900	385(415)	$V = 3^{\circ} 30' E$
2000	406(410)	

48 ✓

S. 29

T.

44 410 R. (4882)

423 (4780)

425 (470)

452 (500)

444 (492)

444 (490)

496 (540)

516 (540)

526 (540)

516 (558)

450 (490)

422 (465)

473 (500)

500 (535)

406 (440)

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

300	500 (535)	Top of Greenstone Bluff
501	473 (670)	lithic #120
650	427 (465)	
800	450 (490)	
900	516 (554)	Greenstone Hill (#120)
1000	526 (576)	V 20 E 28% <sup>a</sup>
1150	516 (560)	
1300	496 (540)	
500	444 (420)	
700	444 (492)	
750	452 (500)	
875	425 (478)	Second Hardlayer (Chapels)
920	423 (425)	Old line (of cont.)
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 Alt. 28,51

Alt. 28.4

S. 29 T. 44 R. 32

Camp Am. 28.61 8 am

Vol 28.52

Set Am. on B.M. 391.34 At 28.56  
and started south at 9 am

Good 18 around

150 421 (425) Burnt Timber  
(000) 416 (420)

650) 421 (425)

S.S. Cn. Sec. 29-44-32

122 N 1300 W 985 A large Hill of greenish  
Gneiss Stake N 40° W Dips 80° S. 50° W.

700	465 (410)
900	499 (505) Gneiss Hill 9:40 less = 120
1100	409 (41.5)
50	404 (410) around
1360	404 (410) end of 11
1400	438 (445) Gneiss Knoll (= 120)
1800	433 (440) r = 0°30' W of 11
1950	383 (390)
2000	372 (380) 10:15

52

S. 32

T. 44

R. 32

	Started on Second Mile at	10:20
25	Cedar swamp <sup>372</sup> (380)	V = 1° W
300	Creek running east	
500	372 (380) end of swamp	
	All brown &umber	
500	386 (395)	
650	431 (440) Greenstone Hill <sup>#120</sup>	
900	455 (465)	11 am
1000	475 (485) Hardwood & Hem	
1100	490 (500)	
700 N	1020 E. <sup>318, Cut 32-114-32,</sup> Conglomerate deposit	
#123	at large hill <sup>540</sup> (550) No structure	
1250	529 (540)	
1300	504 (515) Hemlock	
1250	409 (526)	
1400	479 (490)	
1550	468 (480)	
1650	488 (500) Conglomerate Hill	
700	488 (500) Lime <sup>#123</sup>	
1800	367 (380) Edge of sand & River	
1990	367 (380) " " " " "	
2000	376 (390) on B.R. 37992	
	Struck line about 1 pace west of S.R.	
	at 12 M.	

54 ✓

S. 32

T. 44

R. 32

392	4420
448	(578)
509	(535)
500	(525)
478	500
415	(535)
468	(480)
498	(514)
405	(490)
421	(480)
492	(570)
468	(475)
484	(490)
421	
399	(403)

Set Am. in B.M. (402,89) Ab. 28.52,  
 399

and started north at 12:15  $V = 10^{\circ} W$

All front timber

4130	484 (490)	Conglomerate (#123)
550	468 (475)	
600	492 (500)	Conglomerate (#128)
780	471 (480)	
800	465 (475)	
900?	499 (510)	
1000	468 (480)	12.50
300	515 (535)	Conglomerate (#123) 11.20 Hemlock
1150	478 (500)	Burned Hem. & Map.
625	500 (525)	Greenstone (#120)
725	509 (535)	
800	448 (475)	
1000	392 (420)	11.50

S. 29

T. 44

R. 32

4850 (635)

4844 (632)

4841 (190)

4856 (000)

4833 (445)

4834 \*

4835 \*

4836 \*

4837 \*

4838 \*

4839 (415)

4840 (52)

4841 (64)

4842 (460)

381 (614)

382 (610)

383 \*

384 \*

385 \*

386 \*

387 \*

388 (415)

389 (415)

Started on road hill

50	377 (405)	Edge of Cedar Swamp
260		Creek flowing east
275	377 (400)	End of Swamp
300	381 (418)	r 1°30' E 2115
625	421 (460)	
675	451 (490)	Granite Hill (#120)
900	409 (450)	
1000	403 (445)	Cedar Swamp 2135
1225	403 (445)	End of " "
1400	456 (500)	
1500	444 (490)	
1600	484 (532)	Granite Hill (#120)
1825	485 (538)	Hardwood forest
2000	473 (525)	
2040	448 (500)	Struck the
		line at 3:05 50 paces <sup>429</sup> West of Snake
		Cr. on B. R. 433.42 (483)

Camp L. 28.54

H. 0 28.43



June 25

59

Camp 1 am 28.67

8 AM

401 28.57

Set Am on B. M. (2/27.10) Ab 28.57

And started south on SIC line at 8:30

200 426 (430) Conglomerate (\* 123)

#124 1850 IV - 252 3.8. Cu. 30-114-32

An outcrop greywacke?

Strata N 40° W Dip 80° 3.50° W.

400 406 (410) All Blunt

600 386 (400) Country

700 406 (410)

75 381 (395) Cedar Swamps

905 Cut flowing N.E. 9.10

75 " " " East 6' miles

1000 381 (395)

1100 Cedar Swamps

1200 386 (390)

1400 386 (390) Tamaracks 9.30

1500 381 (385) End of swamp

V = 2° W by dial time

1600 401 (405)

80 401 (405) Good Hardwood

1575 421 (425)

1985 481 (485) Stick line  
60 paces west at 10 am (435)

60

S. 31 T. 44 R. 32

Started on second mile at 10:10  
from Stake

00 431(435)  $V = 10^{\circ}W$  by dial  
200 451(455) turned

Outcrop of Conglomerate to west like #123

300	426(430)	
500	426(480)	Conglomerate $\#123$
600	506(510)	$V = 10^{\circ}W$
700	501(505)	
80	496(580)	
850	436(440)	Black Alder Survey
975	431(435)	End of . . . 10:40
1100	481(485)	Conglomerate $\#123$
1200	481(485)	
1300	456(460)	
175	446(450)	
1525	466(470)	
1700	446(4150)	11:05
875	391(400)	Outcrops
915	386(390)	Creek name 208.
935	Struck the line at 11:15	
40 paces west of Stake	393	(897) on B.M. 39213
Bent west w/ lg. post		
and started north		

62

S.	31	T.	44	R.	32
				534 (534)	
			495 (514)		
			575 (530)		
			491 (515)		
			490 (515)		
			452 (515)		
			438 (515)		
			45X (512)		
			453 (503)		
			4448 (500)		
			446 (500)		
			446 (446)		
			442 (440)		
			443 (448)		
			443 (440)		
			432 (430)		
			4450 (445)		
			4450 (440)		
			446 (440)		
			4378 (434)		
				412	
					412

Set Am on B. M. 42064 At. 28.58  
and started North in 1/4 mile at 11:50

Brent Hemlock  $V = 30^\circ W$  by dial

50	431 (438) Conglomerate like	$\#123$
100	416 (420)	
25	Creek	
50	426 (430) On rock	
230	450 (456)	
325	434 (440) Cedar Savana	
400	433 (400) End of "	"
500	440 (448) $V 10^\circ W$	12.20
625	482 (490) Conglomerate Hill	$\#123$
700	486 (495)	
800	481 (490)	
850	448 (458)	
975	455 (465) $V 0^\circ 30' W$	12.35
1100	451 (462)	
1200	436 (450) Cedar Savana	
1300	437 (450) End of "	"
1500	491 (505) Conglomerate Hill	$\#123$
"	$V = 0^\circ 30' E$	11:10
1700	491 (505)	
1725	515 (530)	
1825	495 (510)	
2000	534 (550)	

64

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	205
1150	381 (400) Town Swamps	
1290	380 (406) End of Survey	
1325	$V = 2^{\circ} 30' E$ 392 (412) Burnt	225
1625	409 (430)	
1750	423 (445)	
1850	417 (440)	
1900		Limestone like #120
1975	436 (460)	" Hills
2000	381 (405)	Swamps
2055	Struck the line at 2:50	
	<del>50</del> 50 paces West of Stake,	
380 (404)	in B.M. 384.12	

Camp A. 28.43  
X01 28.54

66

S. 30 T. 44 R. 32

4114 (4140)  
4120 (4134)  
4122 (4120)  
4125 (4120)  
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4180 (4135)

June 26

Camp An. 28.85

W 01 28.77

Set An. on B.M. 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' n. northwest
100	422 (412)		
225	415 (420)		
450	429 (435)		
485		Stake	
600	423 (438)	$r = 2^{\circ} W$	7:55

Badly burnt Hemlock

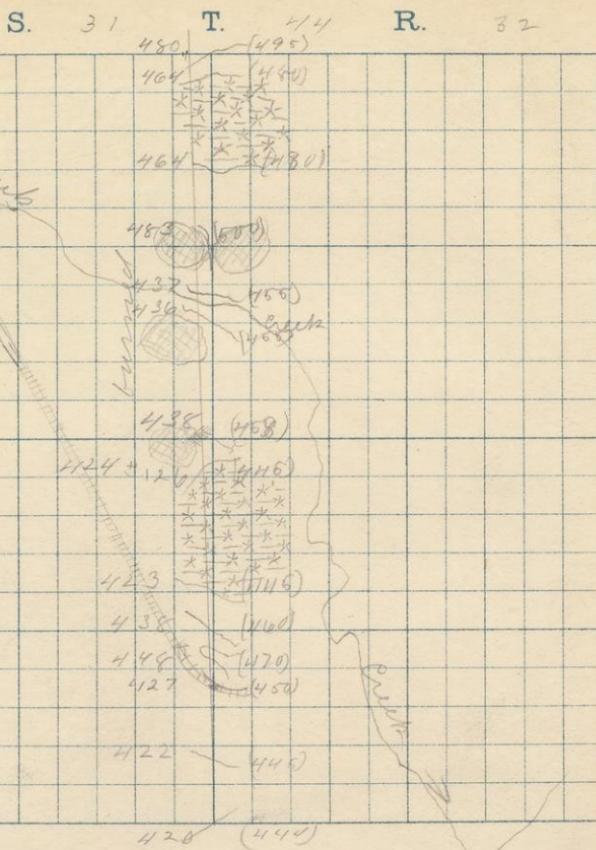
700	403 (410)		
800	427 (435)	Brd Hardwood	
1000	461 (470)	Conglomerate	(#123)
50	491 (500)	$V = 2^{\circ} W$	8:10
1150	475 (485)		
1250	514 (525)		

# 125 675 N 1000 ft. <sup>8.8.60. 30° 44' - 32'</sup> <sup>1</sup> Hill of Compact Limestone

No structure

1350	539 (540)		
1500	508 (520)	$r = 2^{\circ} 30' W$	8:30
1650	472 (490)	Cedar + Tan Swamp	
1750	479 (490)	End of	
1800	511 (525)	Conglomerate Hill	(#123)

All burned



1290	480 (495) struck the
	line about 3 paces east of stake at 850
	Started on second mile at 8.50 $\gamma = 2^\circ N$
50	464 (480) Cedar Savanna
300	464 (480) End of " "
All burned	
500	483 (500) Conglomerate $\gamma = 3^\circ N$ 9/10 <sup>(±123)</sup>
625	437 (455)
50	Creek flowing. 5' wide
700	436 (455)
1000	438 (458)
7126	1000 N 025 W 88. Cr. sec 31-44-32
	Greenstone No Structure
1050	428 (445) Tarn. Savanna
1400	428 (445) End of " "
1500	438 (460) $\gamma = 2^\circ W$ 9/5-5
75	448 (470)
1040	427 (450) On track
1840	422 (445) $\gamma = 140^\circ W$ 10/10
2012	Struck the line at 1010
	60 paces W of stake <sup>420</sup> (444) on B.M. 423.57

70 ✓

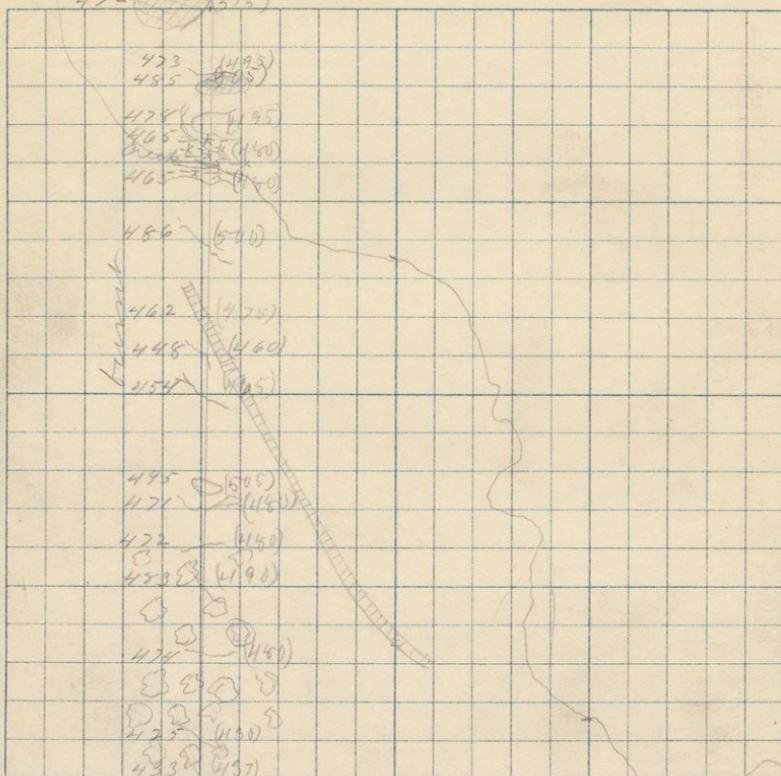
S. 3 /

T.

44

R.

32



8:45 AM on B.M. 436.71 At. 28.74  
<sup>4/33</sup>  
 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)	$V = 2^{\circ} W$
000	472(480)	burnt but not
700	471(480)	very bad
50	495(500)	
1000	454(465)	$V 12^{\circ} W$ 11.10
1100	448(460)	
1200	462(475)	On Track
1400	484(500)	Conglomerate <sup>(#123)</sup> burnt fairly.

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

1550	405(480)	From Swamp 11.40
75		Rock running easterly
1635	410.5(480)	End of Swamp 12. M.
		$V = 2^{\circ} W$ All Burnt Ken. G.
1700	478(495)	
1800	485(505)	Conglomerate <sup>(#123)</sup>
25	473(495)	$V = 8^{\circ} W$ 12.15
2000	492(515)	Conglomerate <sup>(#123)</sup>
		Struck the line 15' paces east of Stake

S. 30

T. 44

R. 32

Started on second mile at 12:20

00	512 (535)	V = 10' W
50	526 (550)	Good Hard iron
150	485 (510)	
200	499 (525)	Turnt Headlock
300	478 (505)	Headlock <del>Padawan</del>
500	V = 20' E 477 (505)	Sorvland
700	496 (525)	
900	495 (525)	1:05
1100	494 (525)	V = 0° 30' S
1225	493 (525)	Good Hard iron
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 places west of Stake at 1:00		
in. m B. M. 451.82 447 (486)		

Camp. A. 28.79

No 1 28.69

74 ✓

S. 25° T. 44° R. 33°

540	(544)
530	0
532	0
533	0
497	0
189	0
471	0
472	0
476	0
470	0
468	0
469	0
460	0

Camp Am 28.71

No 1 28.62

Set Am. on BM 501.24 Ab. 28.56

This BM is on (or near) the track.

BM. at Cr. is (544.15) - 540

Started south on farm line at 8.05

## Good Hardwood

200 552 (560)

400 533 (545)

600 497 (505) Hemlock &amp; Cedar

800 489 (505) very low swamp

995 471 (505) 1/4 Post 5' 1/2

112.5 471 (508) end of swamp

## Hardwood and Hemlock

117.5 487 (525) Good Hardwood

1400 476 (520)

1450 470 (515) Farm. + cedar

525 1/8 post

1700 469 (515)  $R = 7^{\circ} W$  9' 1/2

1900 468 (515) end of swamp

20.15 482 (530) corner



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

200	481 (530)	Hardwood $V = 8^\circ 30' N$
325	495 (545)	$V = 130^\circ N$
000	524 (575)	$5^\circ W$
675		$1^\circ N$
700	533 (585)	$130^\circ E$
800		$6^\circ N$
825	532 (585)	$10^\circ N$
1000	522 (575)	10:08 AM $V = 5^\circ N$
1100		$2^\circ 30' N$
200	532 (585)	$4^\circ E$
400	527 (580)	$6^\circ E$
600	497 (550)	10:20 AM $V = 7^\circ E$
954	482 (535)	Struck the line
at 10:40. 80 paces west of State		
line 172 (525) on B.M. 475.86		

Went west to 1/4 post.

78 ✓

S. 36 T. 44 R. 33

550	550	550
575	575	575
571	571	571
561	561	561
561	561	561
561	561	561
556	556	556
546	546	546
546	546	546
554	554	554
514	514	514

Set Am on B.M. (52116) At. 28.5 (10.5°)

and started north at 10.15 on  $\frac{7}{8}$  line

Grand Hardeeville - clinics  $V = 40^{\circ} E$

300	554 (558)	11.25
400	546 (550) Hemlock Hardwood	
500	546 (550) <sup>546</sup> Birch Hardwood	$V = 50^{\circ} E$ 11.30
700	556 (560)	
900	581 (585)	$V = 4^{\circ} E$ 11.45
1100	581 (585)	
1300	571 (575)	$V = 3^{\circ} E$
1500	561 (565)	
700	571 (575)	$V = 5^{\circ} 30' W$ 12.10
850	575 (585)	
900		$V = 70^{\circ} W$ 12.15
2020	250 (560)	$V = 3^{\circ} W$ , line

✓

S. 25 T. 44 R. 33

5-27 (611)

B 8 8

5-40 (615)

B 8 8

5-75 (631)

B 8 8

5-80 (635)

B 8 8

5-127 (618)

B 8 8

5-128 (618)

B 8 8

5-89 (618)

B 8 8

5-452 (681)

B 8 8

5-25 (600)

B 8 8

5-150 (640)

B 8 8

5-15 (640)

B 8 8

5-50 (68)

B 8 8

Started on second mile at 12:25  
 150 <sup>515</sup> Svv Sand (540) Hemlock Hardwoods  
 300 515 (545) Hemlock & Cedar  
 425 525 (560) Chinc Hardwood  
 700 545 (585)  
 1000 560 (610) 1 Ph.

\*127 1100 N. 525 W s.s.ca. See 254433  
 \*128 (27) <sup>(28)</sup> Compact Greenstone. Poststructure  
 268 580 (635)  
 1500 565 (630)  
 1600 540 (616)  
 1990 527 (611) on B.M. 531.08  
 at 1:35 PM

Camp. No. 2857 2 Ph.  
 No 1 2849

82 ✓

S. 25 T. 44 R. 33

June 29

Sent in Specimens #119 to #128

Camp Am. 28.3

7:45 AM

Nov 28.22

Set Am. on P.M. (566.49) At 28.095

and started South on 1/4 mile at 8:15

Good Hardwood  $V = 5^{\circ} W$ 

100	541 (545)		
200	561 (565)		
400	550 (555)		
500	565 (570)	$V = 6^{\circ} W$	8:30
700	559 (565)		
900	553 (560)		
1000	547 (555)		8:40
11:50	546 (555)	$V = 18^{\circ} W$	
1300	535 (545)	$V = 6^{\circ} 30' W$	
1400	524 (535)	$V = 4^{\circ} W$	
1600	$V = 3^{\circ} W$ 513 (525)	Hemlock + Cedar	
1720	Center of Meadow Marsh		
1800	$V = 6^{\circ} E$ 513 (525)	Hairpin will	
1970	536 (550)	Struck the	
	35 <sup>th</sup> acres East of Shatto at 9:10		

S. 36 T. 44 R. 33

Started south from stake at 9'15  
Good Hardware V =

0	531 (545)	V = 9° E
200	560 (575)	
400	574 (594)	
500	558 (575)	V = 4° E
600	553 (570)	
700		V = 2° 30' E
800	557 (575)	
1000	566 (585)	V = 2° E 9'45"
1200	570 (590)	V = 4° E
1400	564 (585)	
1600	528 (550)	
1685		Road - Piney Harbor
1800	532 (555)	V 3° 30' E
2005	551 (575)	Struck the line at 10'15' - <del>one hundred</del> 100 paces west of B.M. 5 <sup>60</sup> 5-63.53, Cm. (583)

Moved west 2' if post

86 ✓

S. 36

T. 44

R. 33

41	64	98
49	61	95
50	63	93
50	63	95
50	63	83
50	63	83
54	63	615
83	63	83
83	63	83
53	63	635
53	63	635
83	63	635
83	63	635
526	63	635
83	63	635
531	63	635
531	63	635
51	63	620
52	63	628
50	63	625
541	63	645
53	63	675
57	63	675
83	63	675
576	63	670
83	63	670
83	63	683
83	63	683
561	63	663
83	63	663
83	63	663
561	63	663
561	63	663

Set An. on BM. 56459 Ab. 2808  
and started north at 10:30

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

200 561 (565)

500 576 (580)

600 571 (575)  $r = 2030^\circ E$

700 541 (545)

800 524 (528)

875 516 (520)

1000 531 (535)  $r = 3^\circ E$  110.5

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

88 ✓

S. 25 T. 44 R. 33

581	(575)	
582	0	
583	0	
526	(540)	
502	57570	
531	0	
541	(5115)	
532	0	
533	(540)	
542	0	
531	(535)	
543	0	
518	0	
516	(520)	
521	0	
522	0	
542	(554)	
535	0	
532	(535)	
531	0	
530	0	
551	0	(555)
533	0	0
532	0	0
501	0	(565)
523	0	0
533	0	0
536	0	15110
531	0	0
532	0	0
534	0	0
535	0	0

Started on second mile at 11:45

200	536 (540)	
75	V = 1° E	
400	561 (565)	V = 4° E
600	554 (558)	V = 1° E
750	(-)	V = 5° W
800	531 (535)	V = 15° 30' W
875	546 (550)	V = 18° W
1000	521 (525)	V = 16° W 12:20

some cedar in low spots

1100	516 (520)	Brent Hardwood
1275	546 (550)	To the west
1300	531 (535)	V = 6° W
1400	541 (545)	Brent Hardwood
1485	tree flagged in 4 sides (Cn. 18)	
1500	536 (540)	V =
1600	541 (545)	
1700	546 (570)	
1850	576 (580)	V = 9° 30' W 12:50
2002	581 (585)	Stuck the line off 10 paces west of Cn. on BM <sub>578.21</sub> (578.21)

Camp Am. 28.3

Nov 28.22

S. 26 T. 44 R. 33

June 30

91

Camp La. 28.4

7:30 a.m.

Nel 28.32

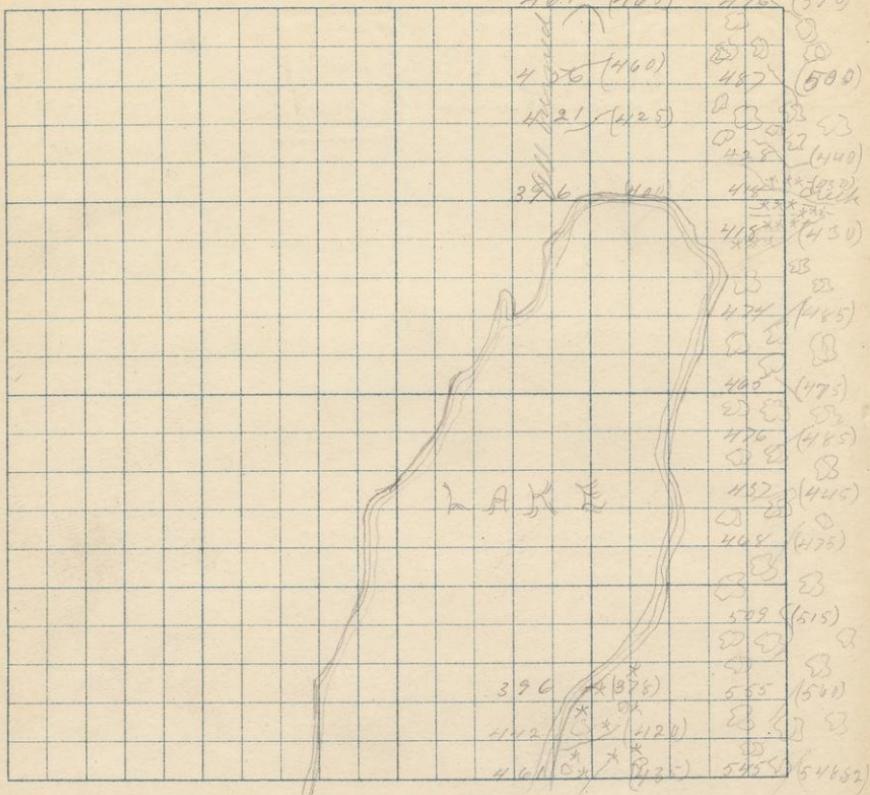
Left An on 13 Mi. (536.53) At 28.19

and started south on 1/2 line at 8:15

Good Hardwood

200	5406 (50)	
285	541 (545) Road	
400	536 (540)	
600	531 (535)	
800	531 (535) road	
1000	576 (520)	8:40
25	496 (500) (above 800)	
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 Hard	
50	Struck line at	9:20
70 paces west of Stake		

S. 35 T. 44 R. 83



Started south on second mile at 9:25

0 0	461 (465)	Slake
150	456 (460)	
300	421 (425)	
475	396 (400)	Edge of Lake 9:41
		(398) water at 10:05

Started from 1/2 pt. and went north to lake.

0 0 461 (435) on B.M. 464, 51 - 10:00

Nearly all Hemlock

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

Set Am. on B.M. <sup>595</sup> (548.42) Ab. 28, 21  
and started north on See line at 10:30

Choice Hardwood.

200	555 (560)	
400	509 (515)	
600	468 (475)	
725	437 (445)	
875	476 (485)	
1020	465 (475)	1/4 pt. 11:00
200	474 (485)	
400	418 (430)	Cedar + Balsam
525	418 (430)	Creek floors were
600	428 (440)	Good Hardwood
800	487 (500)	
1950	496 (510)	Struck 2 trees 11:40

S. 25 T. 44 R. 33

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934	996)
935	997)
936	998)
937	999)
938	1000)

Started bush on second mile at 11:40

0	496 (510)	
160	501 (515)	Road
4100	530 (545)	
500	524 (540)	"estate bush
700	503 (520)	West of line above 4000
900	512 (530)	
1100	511 (530)	
200	550 (570)	
1400	554 (575)	
1600	563 (585)	$r = 5^\circ W$ by dial
1800	562 (585)	$r = 1030^\circ W$ "
1970	558 (582)	on BM 56178 at 12:45

Camp Am. 28,819  
No 1 2832

1 P.M.

96

S. 26 T. 44 R. 33

481 (4185)  
482 (4185)  
483 (4185)  
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498 (4185)  
499 (4185)

300 = 28.6

July 1<sup>st</sup>, 1891

97

Camp. An. 28.56

7.25

No 1 28.48

Set An. on BM <sup>183</sup> (480.58) Ab. 28.4and started S. on  $\frac{1}{4}$  mi. at 8 am.

trunk Hardwood

200 481 (485) Good Hardwood to east

400 470 (475)

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

700 463 (470)

800 trunk Hardwood

900 462 (470) Tamarack

1000 468 (475) and Cedar 8.30

200 475 (485) Swamp

400 484 (495) Date 100 years was

600 488 (500)

615 Road

800 482 (495)

960 481 (495) Struck  $\frac{1}{4}$  part 8.55

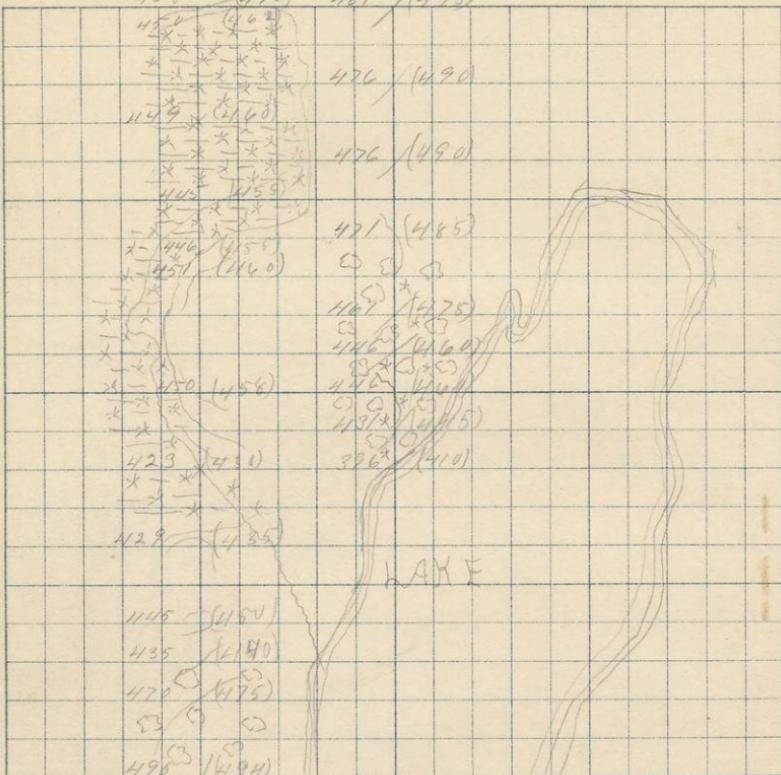
S. 35

458 (470)

T. 44

481 (495)

R. 33



Started on second miles at 8,555

0 481 (496)

300 200? 476 (490)

400 476 (490)

600 491 (485)

725 Good Hardware

800 461 (475)

900 446 (460)

1000 446 (460)

100 1131 (445)

95 396 (410) Edge of Lake 9,250

800 = 2605 605) on B.M. (494.39)

Set Am. on B.M. (494.39) Ab. 28.38

and started north on 1/2 line at 10 on

Good Hardware

200 470 (475)

300 435 (440) Cedar + Maple

400 445 (450) scorched by fire

600 429 (435)

625 Tamarack + Black Alder Swamp

800 423 (430) Creek runs 8 rods

825 End of swamp

1000 450 (458) burnt 10.25

Tamarack and Cedar 100' pace west

1300 451 (460)

50 446 (455) Tamarack Swamp

465 S. 24 T. 44 R. 33

1133 (4175)  
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1460 445 (455) Creek running west  
 Cedar and Tamarack  
 700 449 (460)  
 2000 458 (462) End of swamp (burnt)  
2025 458 (470) 17 paces east of Stake  
 Started north on second mile from Stake at 110.  
 200 452 (475)  
 300 Road  
 400 451 (465) Cedar & Tamarack swamp  
 550 461 (470) All burnt ..  
 800 460 (470) .. 11:30  
 1000 459 (475) swamp east 50 paces  
 1100 455 (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 (488) Struck the line  
 at 12:20 - 55 paces west of Stake  
 455 (479) m B.M. (458.99)

Camp A. 28,52

No 1 28.44

Blank Pages

102-117

Skipped

391,34 in B.M.  
50 - 377 Edge and base of Water in lake

Ran h few. Tom Pur & Saks  
2 1/5 P.M.

60	357 (360)	swamp
100	(365)	Hurst Ward
130	(370)	
200	(360)	
225	343 (354)	Water level in lake 262.0

(4000) typ of AEC

20'

3/2 5

4

2 180° = 50°

10° =

