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Township 44 north, ranges 34 and 35 west, specimens 31401-31430. No. 236 [1891]

Sanford, Samuel, 1865-1927

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

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LAKE SUPERIOR SURVEY

Diary

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.






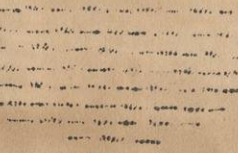
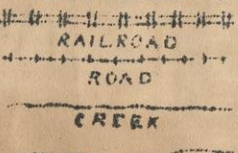
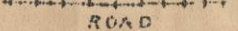
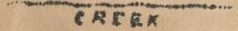
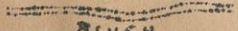





It will be the constant business of the geologist to search for outcrops. All hills within a reasonable distance of the course of travel will be examined. Oftentimes upon the steeper slopes of a hill a rock surface is covered with a coating a few inches thick of moss, leaves or vegetable mold and can 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° E., Dip, 68° 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 3x4x1 inch. In case several specimens of the same ledge are necessary, and when ledges are numerous, specimens 2x2½x¾ 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>NEARLY MASSIVE</p>	 <p>MASSIVE OR SHALY OR BEDDED</p>	 <p>SECONDARY STRUCTURE.</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				

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

S. Sanford

1

Note Book no 4

S. Sanford "Geologist"

Herb Louney Compassman

SPECIMENS: 1299

1401 - 1430

TOWNS

44 - 34

44 - 35

NOTE

also a # 1430 in
Book no. 50

2

S. 1

T. 44 N

R. 34 W

522

520

522

522

528

524

528

538

538

going north

(2550) 540 N

going S on quarter line of
1. T44 N; R34 W.

Sky cloudy

July 14 left camp 7.25
 left starting point S
 (long walk to it) 9 AM
 Bench mark 541.53
 variation 4.12
 Plate mixed timber, some good
 maple; anemid 15820 (2550(?))
 538 2546

100

200

300

300

400

500

600

700

800

900

1000

1040 to road - poor - old one

1200

1300

1400

1120

1610

1720

6.45 E

538 (2530)

538 (2530)

528 (2540)

(524) (2535)

528 (2540)

524 (2535)

524 (2535)

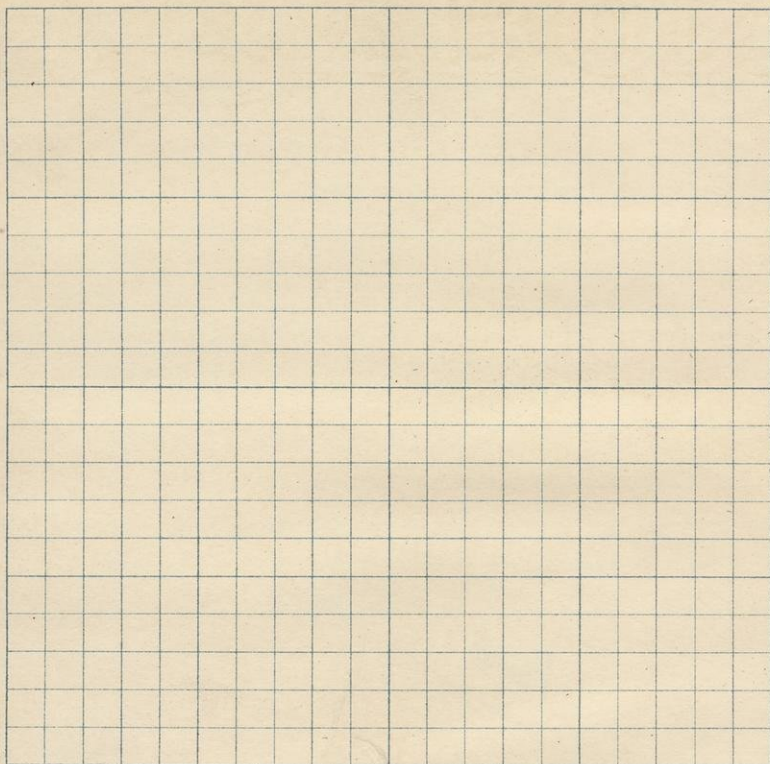
36
 Book

4

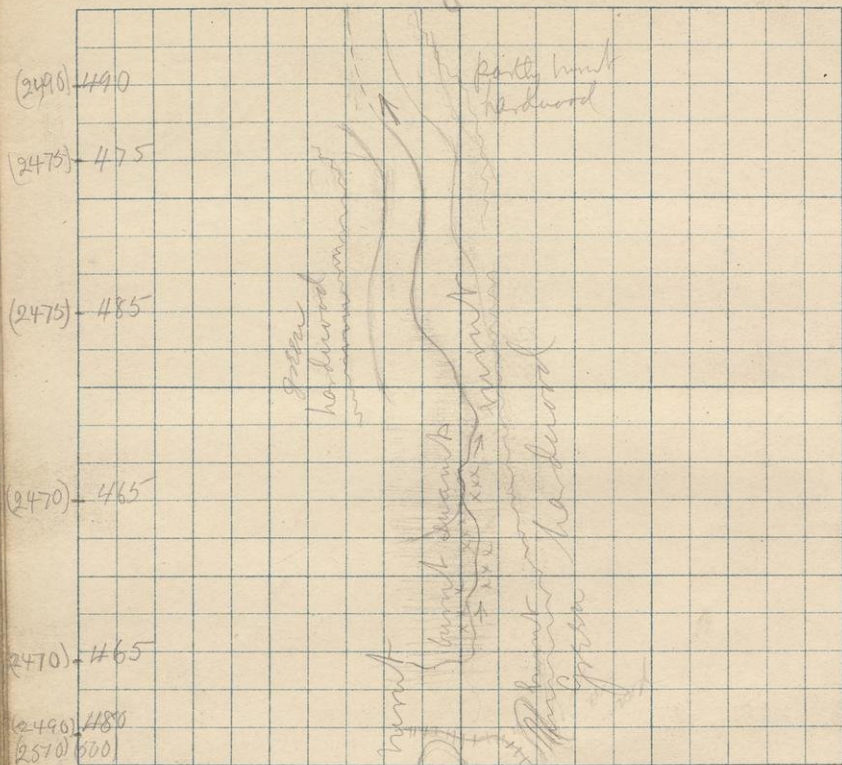
S.

T.

R.



1800 burnt timber 2530
Struck post at 1986 in
post, followed down blazed line.
Man who blazed line used
compass variation of $70^{\circ} E$



Spring San 44 line of 12

Topis Smith

Hickory

2510

70 lot road - good maple wood 2490
 100 532

270 creek 3 ft wide flows W 2470

300 dead thicket cedar ^{same creek} swamp

440 creek - close to line

540 green cedar swamp

600

700 creek 6 ft wide flows S+W 2420

770 creek again flows E

800

900

1000 same creek

1050 thicket

1100 "

1200 "

2475

1300 "

2490?

1400 "

1500 "

1600 "

2425X

1800 hardwood, thicket, 2490

1900

Strike line 20 20, 50

pages of Bench mark

Bench mark

473.88

11.48 AM April 158

2470

8

S. 12 T. 44 R. 34

(2525) 530

(2525) 530

2520 525

(2520) 525

2520 530

2525 535

(2515) 525

2500 510

(2470) 450

(2450) 460

mostly
hardwood

mixed

*
hardwoodBunch
with
430going N on W $\frac{1}{8}$ line of 12

7 44 N. R 34 W

Sky clear or cloudy

N. 1/4 plate of 12; 12.30 PM 9

Stake in burnt timber with
poplar brush Bench mark 431.14

Amoid 158 28.35 2440

100 2450

200 2470

300 2470

400 1/4 plate 900 }

440 350 good maple timber

400 2500

600 good maple 2515

620

700 running on 8' E 2525

800

900 2520

1000 mixed timber 2520

1000 from near run on 700

1000 mixed timber mostly cedar

1182 1.67 township 8, 20' E

1200 2520

1332 8, 0' E

1500 2520

1400 8 maple timber cedar good

1800 2525

Did not find any line or any
plate

2000 2525

S. 1

T. 44

R. 34

(2595) 590

(2570) 585

(2560) 585

(2530) 540

(2540) 540

(2545) 545

(2530) 530

(2530) 530

Hardwood

Hardwood

Scrubby
pine
junc

Hardwood

Going N on N¹/₈ of 1

Sky generally cloudy

Song Nan W. 1/2 of 1

11

100	A little good scattering pine	8 ⁰⁰ E
200	good maple birch cedar	
220	tole road - good one	
300	g. maple + birch with scattering pine	2530
400	" 2.07 PM	8 ⁰⁰ 30'
600	"	
800	"	2530
800	"	8 ⁰⁰ E
1000	some fine maple	2540 2545
1100	" " " birch	8 ⁰⁰ E
1200		2540
1400		2530
1600		2560
1600		8 ⁰⁰ E
1800		2570
1800		8 ⁰⁰ 15 950
2000		2575

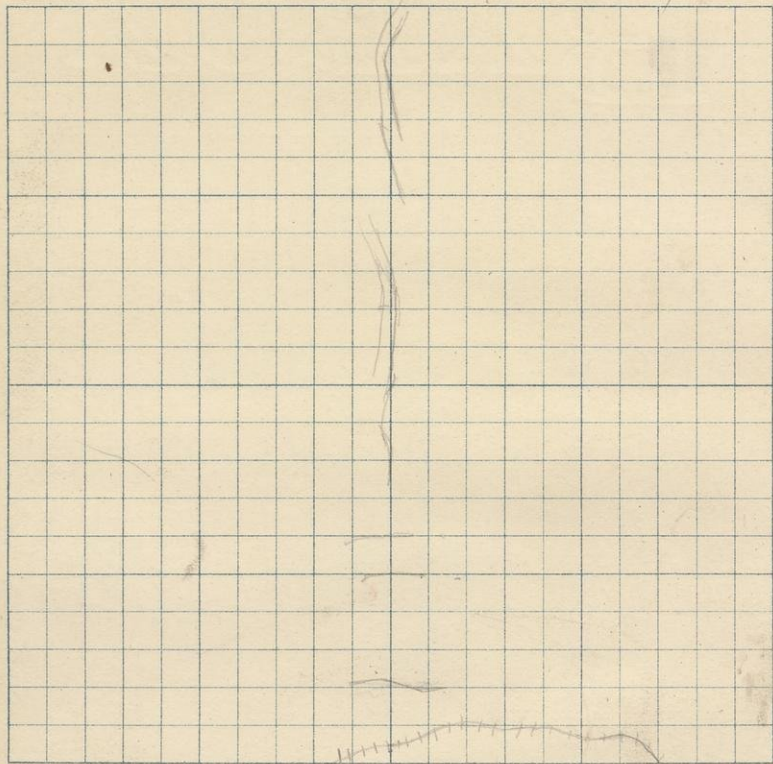
Struck line at about 2230,
170 paces W of B.M.

Bench mark 563.97
Averred 158 28.20 2580

S. 2

T. 44

R. 34



E 1/8 sec line of 2

Running N

Sky cloudy

To shorten days work by avoiding
a mile extra walking I start

13

from E 1/8 Platted 2 + run N 1 mile

Arrived 158 7.30 AM 2510

Burnt timber with maple brush

50 to road - good wagon road

200 Partly burnt hard soft wood with
maple brush 2525

400 " " " 2525

500 " " " 2530

600 " " " 2525

800 8.08 AM 2525

900

1000 burnt cedar spruce etc with
maple underbrush

1200 " " " 2520

1400 " " " 2535

1570 " " " 2540

1600 " " " 2530

1800 " " " 2520

2040 " " " 2520

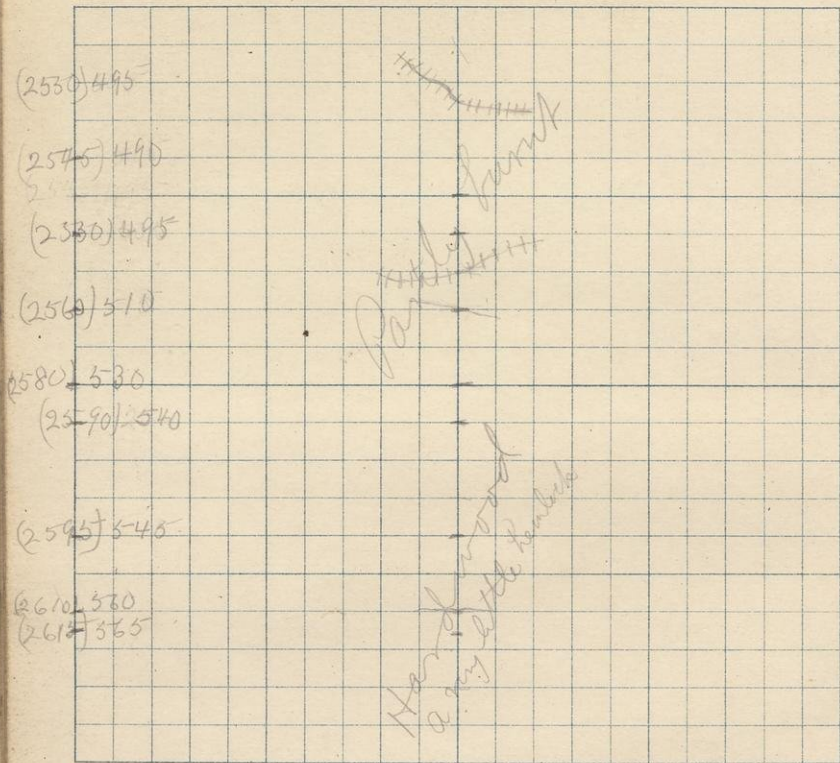
Struck line at 2040; 60 paces N
of Bench mark 509

Bench mark 509.30

9.40 AM Arrived 158 2525

570-435=505

570-15=495



E section line of 2.
 Sky cloudy.

Run on 9.0'E then 6.0'E then
 7.0'E. + from 1753 on 5.0'E.

TOP IS SOUTH

Starting I from Cor of 2 10.05 15
Bench mark
anend 1st

563.76

(2615)

Hadwood mostly maple first timber

350 " " (2615)

400 (2610)

600 a very fine scattering hemlock (2585)

900 (2590)

1000 partly hemlock & spruce with (2580)

Pithuk underbrush - maple birch &c

1100 (2530)

1300 old tele road

1400 11.05 AM (2530)

1600 (2545)

1750 tele road - good one

1800 (2530)

1900

2000

Stuck line at 2000, 8 paces
W of stake
Bench mark

S.

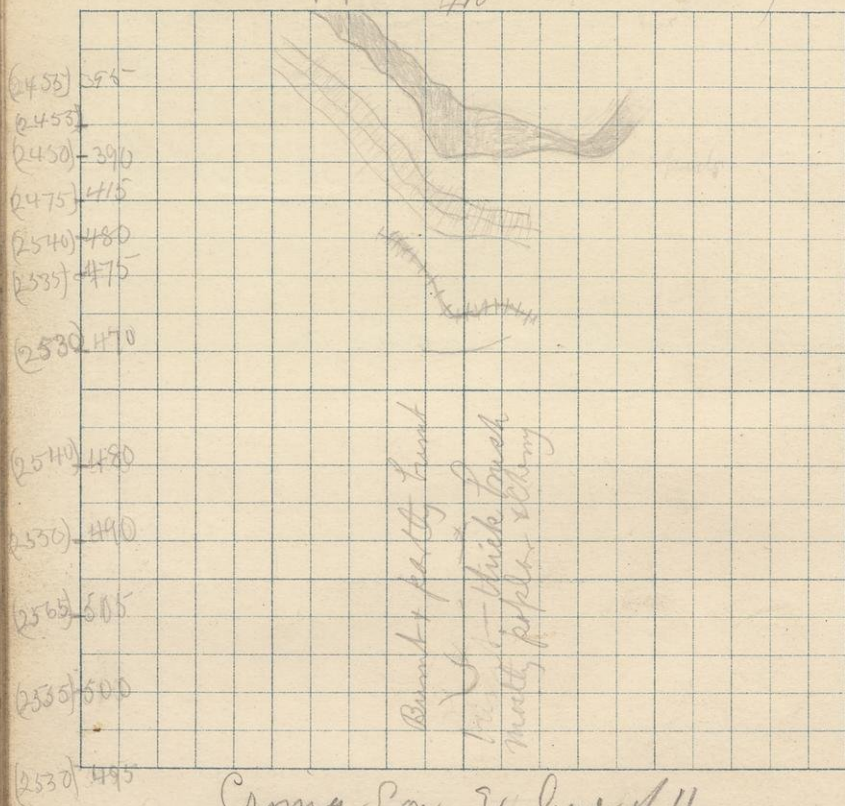
11

T.

44

R.3

24



Young Son & line of 11

Top is South

Used 6° & most of way

11 48 AM		
200	partly burnt, thick brush	(2530)
400	burnt brush, poplar cherry brush	(2535)
600	" "	(2530)
800	" "	(2540)
900	" "	
1000	good maple	
1100		(2530)
1200	tole road - good one again road	
1300	partly burnt, thick brush	(2535)
1400	edge of Paint R. valley	(2540)
1400-1500		(2475)
1515	edge of Paint or Kinnaman R.	
2000	60 paces over road	(2450)
1130 PM	210 PM	(2450)
1700	other side of river	(2455)
1800	burnt timber & poplar brush	(2455)
2000	" " "	
Struck line at 2026	11 paces E.	
2470	Anemoid	2470
Bench mark	409.96	

going from E 1/4 line of 1st bench mark?
 Aneroid 158 28.31" 2480

60 paces, trail well worn

100 burnt timber, poplar bench clearing

200 " " " " " 2475

400 " " " " " 2500

400 " " " " " "

500 " " " " " "

575 " " " " " 2490

600 " " " " " 2480

700 " " " " " "

890 Paint river bank 2475

930 other side river 40 paces into 2480

1000 2490

1100 2525

1146 tote road good one

1300 2530

1500 dead cedar swamp & alders 2530

1650 creek 2 ft wide flow 2530

1700

1800

1900 burnt, poplar, maple bench 2540

stump line at 2030 4 paces

E of stake 5 PM

Bench mark for close 5 27 57

Aneroid 158 5800

Starting from 1/4 post of 3

21

Bench mark 527.57 726 ft 527.57

Aneroid 158. 28.38 2320

Mixed timber, good maple & birch

" " " " 4,45 E

100 " " " 528 (2520)

200 " " " 528 (2520)

400 " " " 528 (2520)

600 " " " 518 (2510)

700 dead & burnt timber, maple brush
part of Park's Farm

800 " " " 498 (2490)

1000 dead cedar & spruce Swamp 483 (2475)

1200 " " " with alders

1400 burnt swamp land 2470 478

1420 poplar brush

1450 cleared field, grass Park's Farm

1500 running on 50 E 478 2470

1800 " " " 2475

1880 road

2000 Park's Farm, grass

Did not find line or stake

(2465) 490

(2438) 453

(2420) 445

(2400) 425

(2370) 390

(2379) 395

(2430) 445

(2450) 470

(2470) 490

(2500) 520

(2490) 505

(2480) 495

(2480) 495



Hardwood
pebble trunk

Hardwood
pebble trunk
33 feet

Going Son 1/4 line of 10

4.5 Sky clear

Run on 40° E

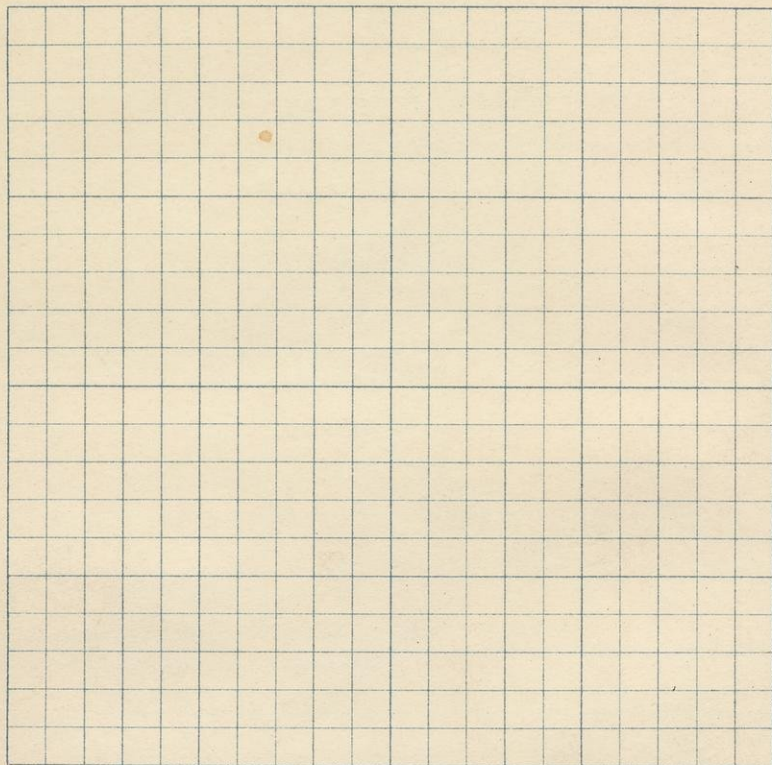
TOP IS SOUTH

250	grass	
155	mixed, about edge of clearing of Park's Farm	
300	Hard rock - little good	(2480)
500	" a little good birch	(2480)
700	" "	(2490)
900	rocky bank, a little good timber maple + birch	(2500)
930	ground falls away. Paint river valley.	
1000		(2470)
1045		(2460)
1100		(2430)
1175	bottom of valley - sparse camp	(2375)
1200		(2380)
1300	edge of Paint river bank only 4 ft high. Recently flooded. When flooded overflowed back to 1175	
1500	1300 other side 7.01 km	(2370)
	Took 45 minutes to cross, very dead water from dam blow, 8 ft deep	
1400 alt		(2370)
1430	9.45 7.1 km	(2400)
1480		(2420)
1520		(2430)
1620		
1720	Struck line at 1730	

S.

T.

R.



right on post.

10:15 10:30 AM

Bench mark 490.40

Aneroid 155 24.65

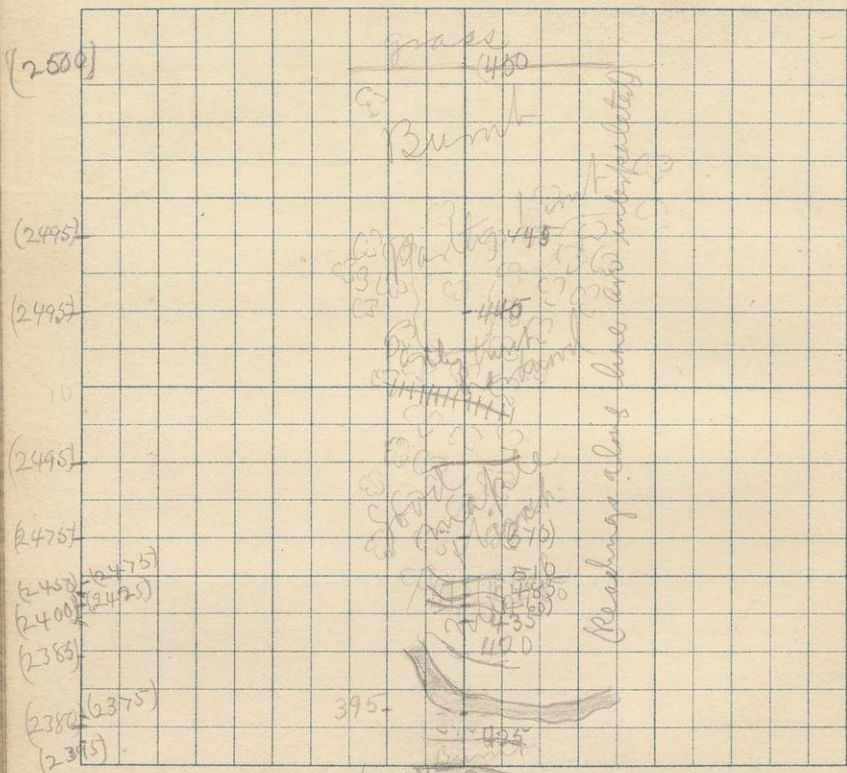
Mistake in count of pacing 300
paces - or rather in keeping count.

490 - 24.65

465.35

40 - 55

473



Long Run W 1/8 of 10

Dry clear

430 - 2400

375 - 2300

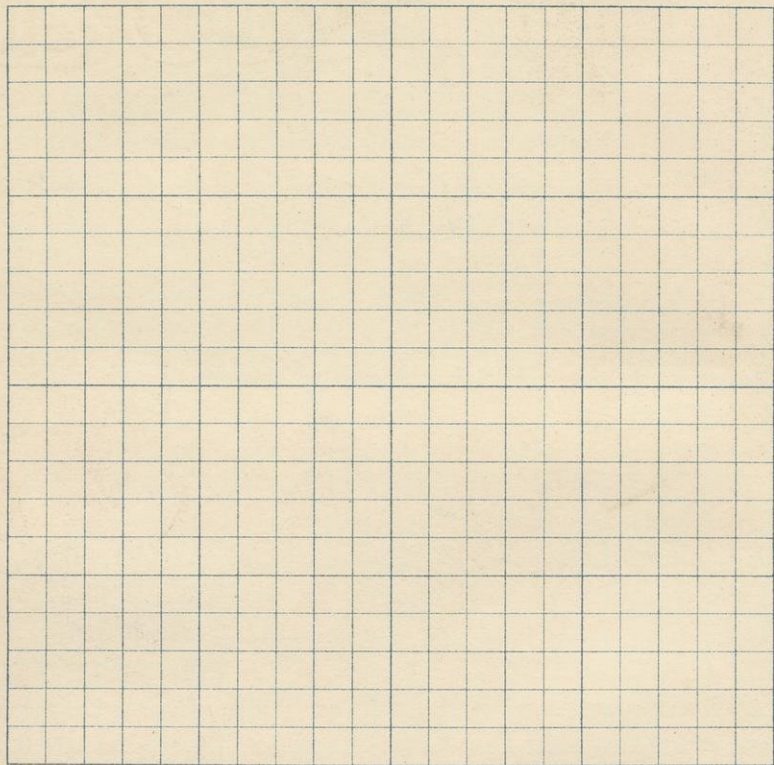
320 - 1200

Going N from W 1/2 of 10.	10.30	27
Bench mark	430.19	
Arrived 58, 28.39	(2400)	
variation, by sun,	70 E	
70 partly burnt mixed timber	(2395)	
100	(2380)	
125 edge of Paint River.	near (2375)	
11.05 Am		
Rapids at point of crossing.		
165 other side 11.50	(2380)	
200		
290 edge of asplowed land	(2380)	
300		
370 mixed timber, thick brush	(2400)	
415	(2425)	
440	(2450)	
470	(2475)	
480	(2475)	
500		
600		
dial gives	70 E	
but run on	50 E	
600 mixed timber, good maple	(2475)	
800 12.15 Pm	(2490)	
900	(2490)	
760 old tote road - poor		
1000		
1100 partly burnt mixed timber - Park's Farm		
1200	(2490)	

S.

T.

R.



1400 Path, hunt with brush (2420)

1500

~~1800~~ 1850 open field - grass (2500)

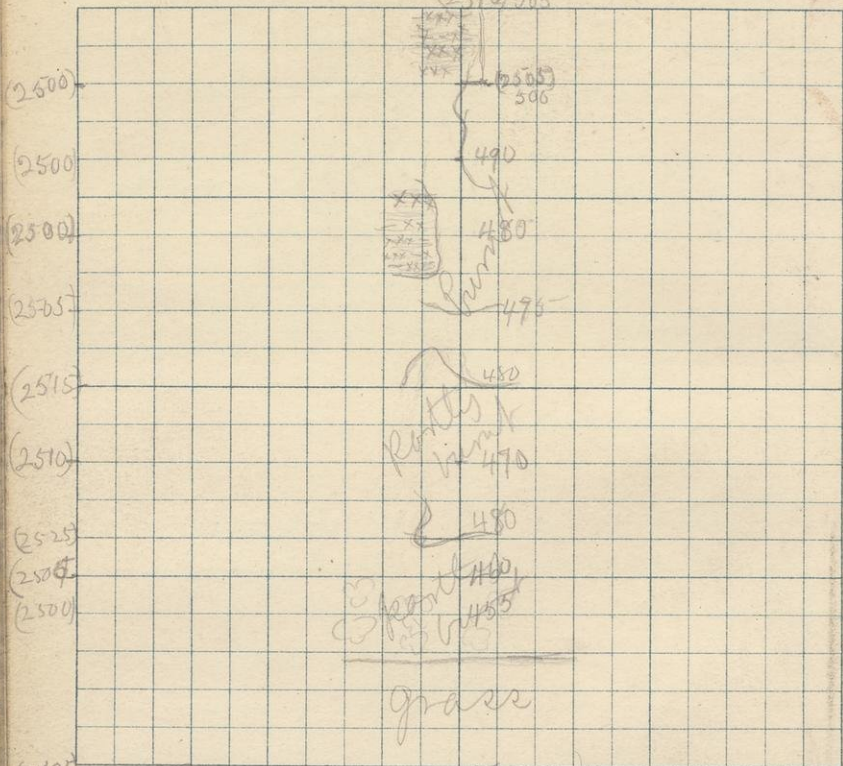
1900

Struck line at 1995 right on
stake - blazed stump.

S. 3

T. 44 N

R. 34 W



Running W on W 1/8 of 3

My clear

did not calculate on
arch of jump

in field of grass (2495)
 Running on 4°30' E
 100
 200
 280 face - edge of field; then
 partly bank mixed timber
 450 " " (2500)
 500 " " (2500)
 600 Running on 4°30' E (2525)
 800 " " (2510)
 900 " " (2515)
 1000 " " (2515)
 1000 variation by dial, running on 4°30' E 2°30' W
 1100 variation by dial 5° E
 1200 bank timber (2505)
 1400 (2500)
 1600 (2500)
 1800 offset E 50 paces (2500)
 end of offset (2505)
 1990 1970 1950 ces
 Struck line at 1990 2510
 54-50=4 paces E of Bench M.
 Bench Mark 503.04
 Around 2510
 1.5-5 PM

32

(2460)

S. 4

T. 44

R. 34

(2460) 495

(2465) 500

(2460) 495

(2455) 490

(2465) 500

(2470) 505

(24) 500

(2460) 495

(2460)

495

Burnt

x x x
 x x x
 x x x

Going S on 8 section line of 4

Very clear Top is South

July 8 7.15 AM

33

Going S from N.E. corner of
Bench mark 496.58

Aresoid 158 28.43 2460

Burnt timber + brush-plot 40.30

200 2460

300

400 2460

600 2470

800 2483

1070 Spruce-tamarack swamp 2455

1200

208

1283 Other side of swamp 2460

1400

2465

1580 Spruce swamp plateau

1600

1660 burnt swamp, sp. + tam.

1800 burnt timber poplar brush 2460

Struck line at 1975, 20

paces E of corner stake 2460

460

2460

55

200

2350 415
 2390 = (2420) 455
 2450 485

(2495) 505

(2420) 520

(2475) 570

10

(2475) 505

(2470) 505

(2465) 495

(2460) 495

←
 2350 415
 2390 455
 2420 485
 2450 505
 2470 520
 2475 570
 2495 505
 2420 520
 2475 570
 2495 505
 2470 505
 2465 495
 2460 495

E section line of 9

Top is South

Survey on WE section line of 35

Partly burnt brush + soft wood
with maple underbrush + elm

200 " 2460

400 " 2465

600 " 2470

700 mixed - some good brush + maple

800 partly burnt mixed 2475

900 " " "

1100 mixed, good maple thick 2465

1280 9.15 40 E

1280 " " " 2475

1400 " " " 2480

1600 " " " 2495

1700 " " thick brush 2495

1725 " " " "

1800 " " " 2450

1820 " " " 2420

1835 " " " 2390

1870 Edge of Paint R 9:36 AM 2380

1900 other bank 10:30 AM 2360

2000 " " " 2365

Struck line at 2015, 62 paces

1/2 W of ~~corner~~ Bench mark

Bench 411.48

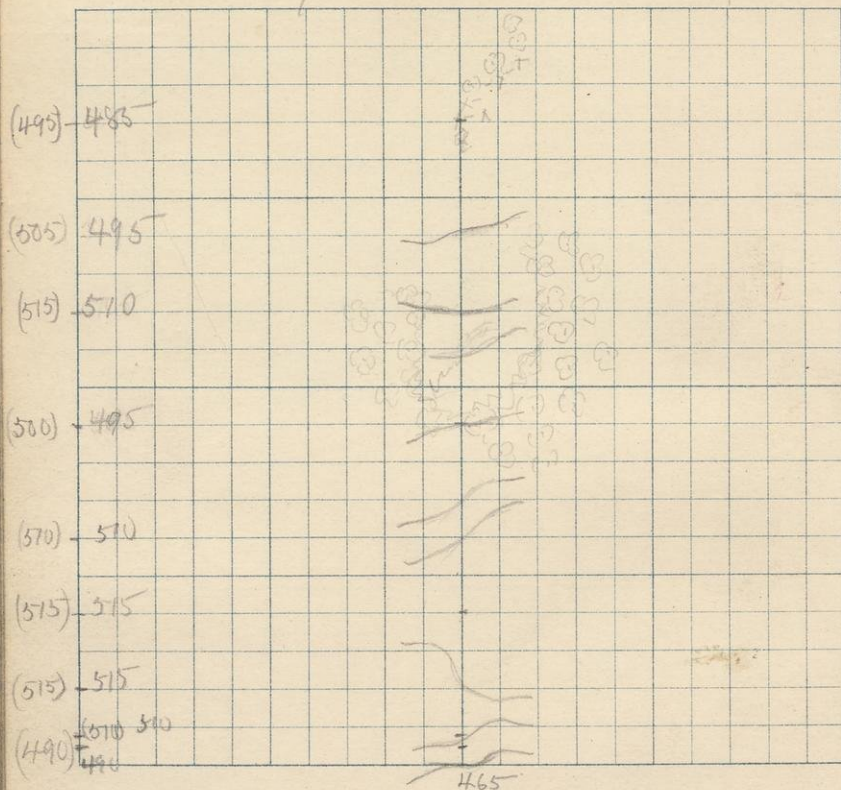
2360

36

S. 9

T. 44

R. 34



465
N 1/8 of 9

Going from W/P of 9.11.42 to 37

Bench mark 243.71

Aneroid 28.44 28.60

Bench mark in mixed timber
good maple - thick brush
40 23.85

72 top of valley 24.05

200 good maple & some brush 24.10

400 24.10

600 partly burnt mixed timber 24.05

900 12.25 Rm 23.95

1000 burnt timber, maple brush

1200 24.10

1400 24.00

1700 23.90

1900

Struck line at 1985, 3 paces
W of 1/8 stake

1165 23.60

1170 23.50

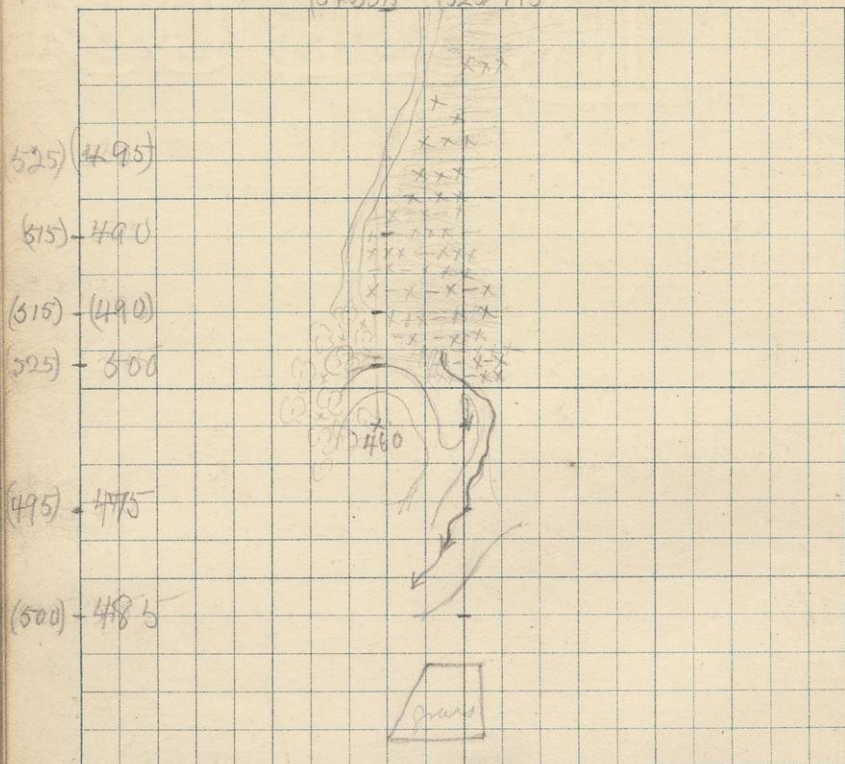
25 23.50

S.

T. 44

R.

34



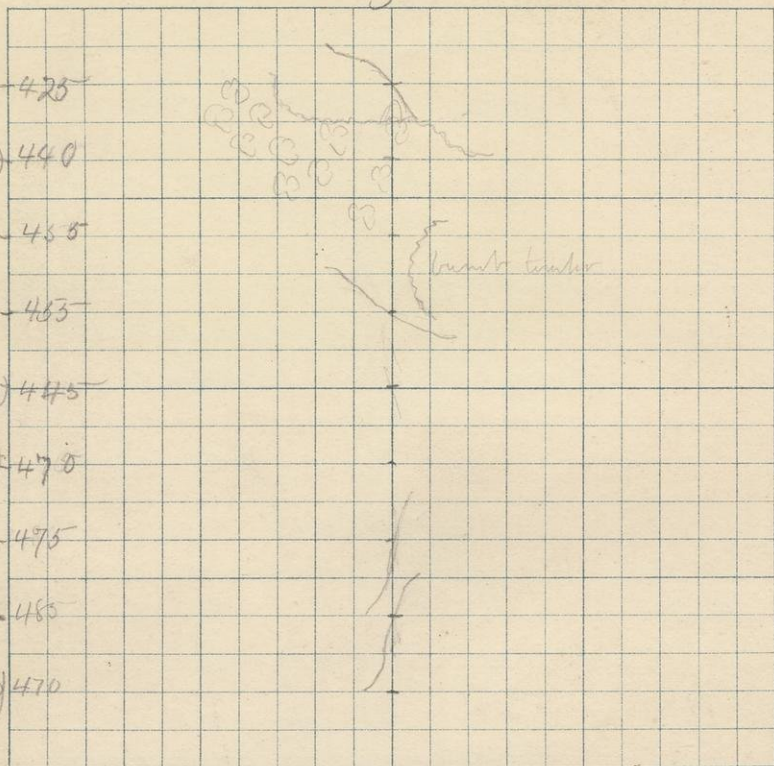
E 1/8 line of 1505

Running N on $E\frac{1}{8}$ of $\frac{3}{4}$ 39
 12.55 PM $47^{\circ}30'S$
 Burnt timber maple brush 2400
 60 Hence, then cleared field with
 Grass Parker's Farm
 258 other side of field
 400 2395
 500 burnt timber 2400
 686 creek 4 ft wide flows SW
 alders along its banks 2390
 800 burnt timber 2400
 900 set of 8 225 paces N to avoid 2460
 alder + cedar swamp 2415
 W end of object
 1060 2420
 1200 Spruce tamarack + alder swamp 2410
 1400 150 PM 2410
 1500 mixed timber
 1600 2420
 1830
 Struck line at 1994 2440
 (233-225) 8 paces W of Bench mark
 Bench mark 492.12
 ahead 158 2420

S. 5

T. 44 N

R. 34 W



1/4 line of 5 - going S.
sky hazy

Running on 4³⁰ E then
50 E

Bench mark

464.53

8.10 Am Amvil 158, 28.50

12300

200 Mixed timber, good maple (420) 2305

400

(485) 2320

600 Partly burnt mixed timber,

(480) 2375

200 Mixed - some good maple struck -
a little scattering hemlock and good

800

(475) 2310

1000

(453) 2290

1200 Swamp, cedar spruce alder &

tamarack

9.10 Am

2300

1300

1400 Partly burnt mixed timber

2295

1600

2280

1750 burnt timber maple hazel buck

1800 Swamp burnt cedar tamarack 2280

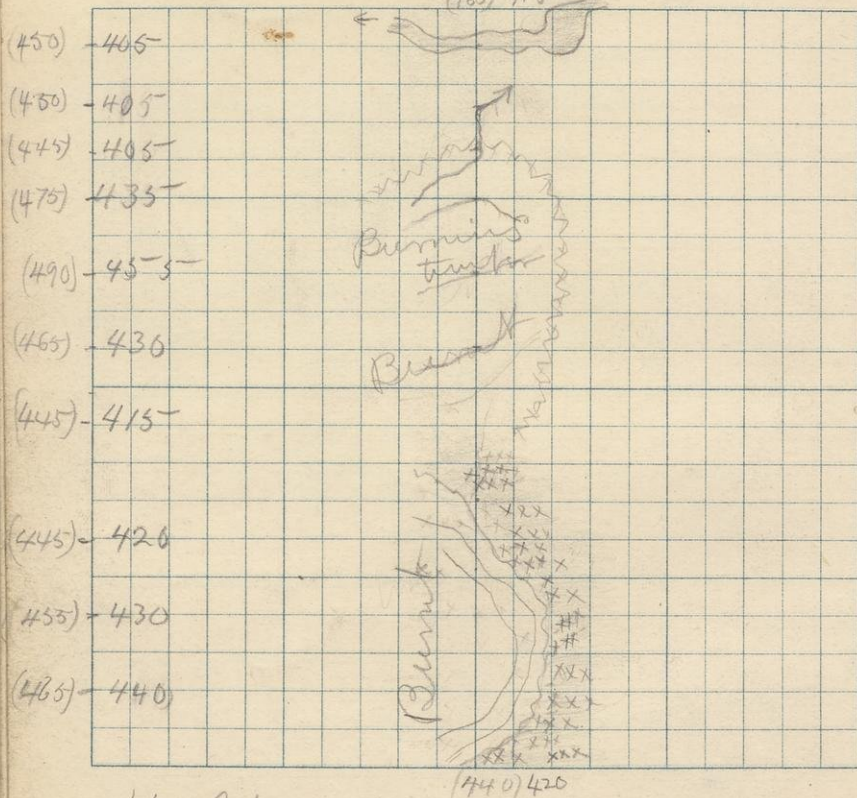
Struck line at 2286 right at
post

2300

S. 8

T. 44 N R. 34 W

(465) 415



1/4 line of 8
 Spk Hazy

Spot in burnt cedar tamarack (2273)

200 burnt timber, Poplar bush (2300)

400

500 burnt spruce cedar & pine

600 burnt cedar & grassy under (2280)

800 (2300)

987. Edge of swamp then running (2280)

timber, using 6.36E now use

10.33 Am

1100 running timber (2300)

1300 " " (2320)

1500 " " (2310)

1625 edge of burnt tamarack & cedar (2280)

1758 creek 10ft wide, flows SW (2285)

1900 edge of Paint m. River 30 paces
wide flows E (2285)

1935 other camp (2290)

2000 low ground mixed timber

2000 Bench line at 2105, 10 paces E
of Bench mark

Bench mark 413.98

Aneroid 158 (2300) (400)

11.15?

No 1299 fine grained
No 1402 coarse

45

1299 Nos 1299 + 1401 O.N; 11.30 W. outcrop of
1402 schist structure, schistose
blown by weathering; when weathered
more compact. Strike, N 80 E, dip
50-55 N. Exposure extends along line
over 700 paces from near 1/4 post, forming a more or less interrupted ridge, 10-40
ft high.

Spring N from 1/8 post 12.15 am

1/8 post in recently burnt timber

Bench mark

471.62

aneroid 158

23757

100 burnt burning

2370

1401 No 1401, N 145, W 1595- slate

2350

300 low ground - cedar

2325

368 edge of Point River, over 40 paces
wide. 12.30 P.M.

2320

548 other side 1 P.M.

2325

550 other bank

2330

700 cedar spruce balsam

2330

A N + S blazed line here gives 2'30'

Dial gives

8° E

735 burnt timber

2330

760

2335

900

2335

1200

2340

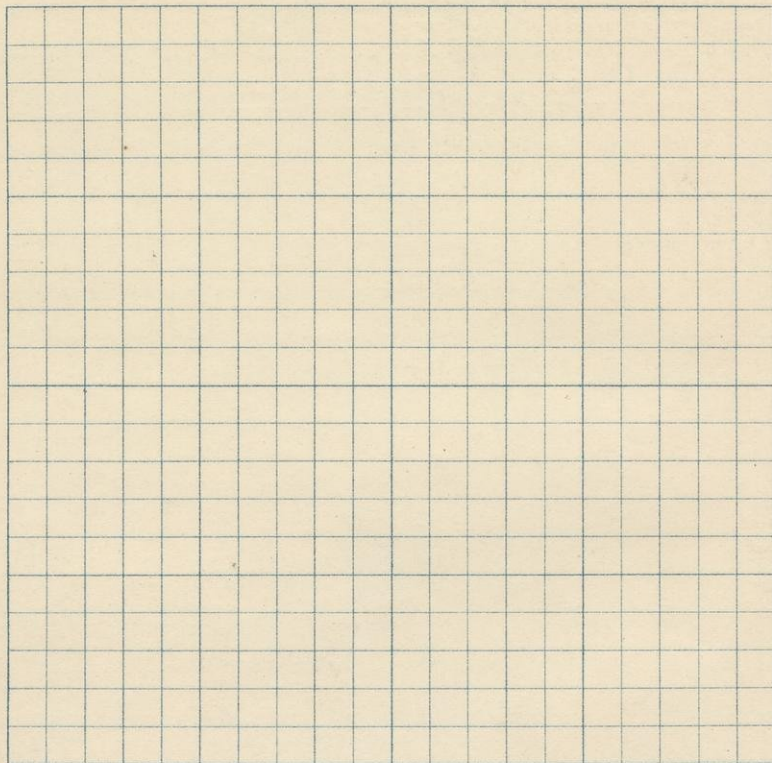
1400

2365

S.

T.

R.



1500	Burnt	2345
1630	the burnt spruce stand mark	
1730	other edge of it	2360
1765	top of bank	2375
1800		2370
2000		

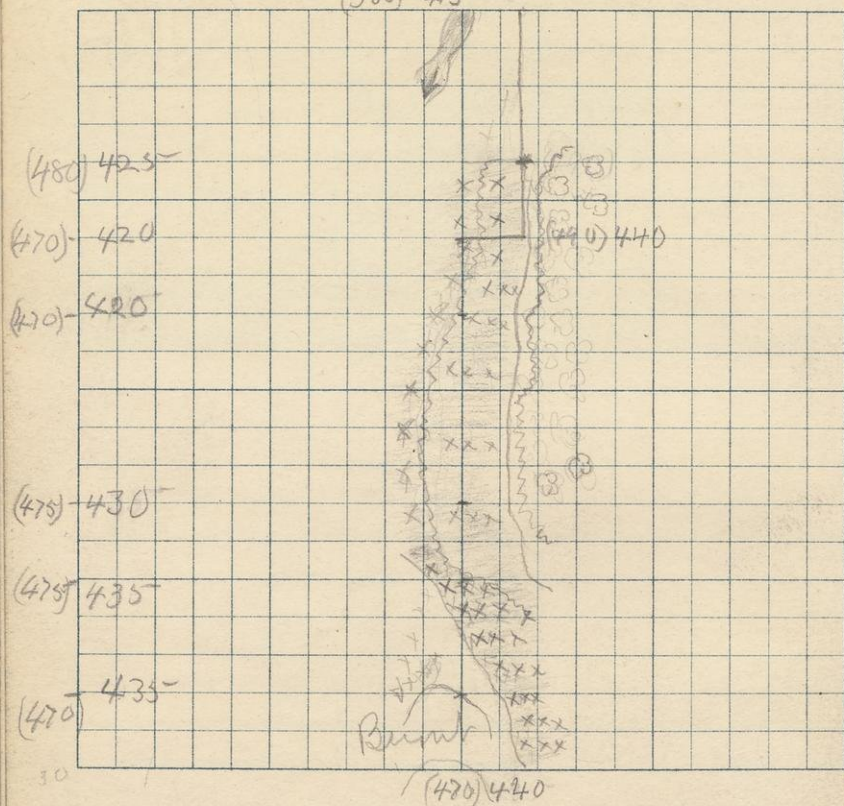
struck line at 2020, 45
 paces N of square line we cap
 pure to be Optake 1.50 km to 5 PM

S. 5

(580)

T. 44

R. 34



The aneroid readings
are not to be relied on.

200 1/4 N 1/4 of 5

Bearham Litcham hunt timber

Start to 150 paces W of stake 2375

Start to 165 2 PM

200

2375

300 cedar + tamarack swamp

500 other side of it - timber swamp 2380

600 hunt tamarack + cedar 2

700 " " " 2380

800 " " " 2380

1200 Inman " " 2375

1400 Spruce + balsam 2375

Offset back E 150 paces

End of offset 2395

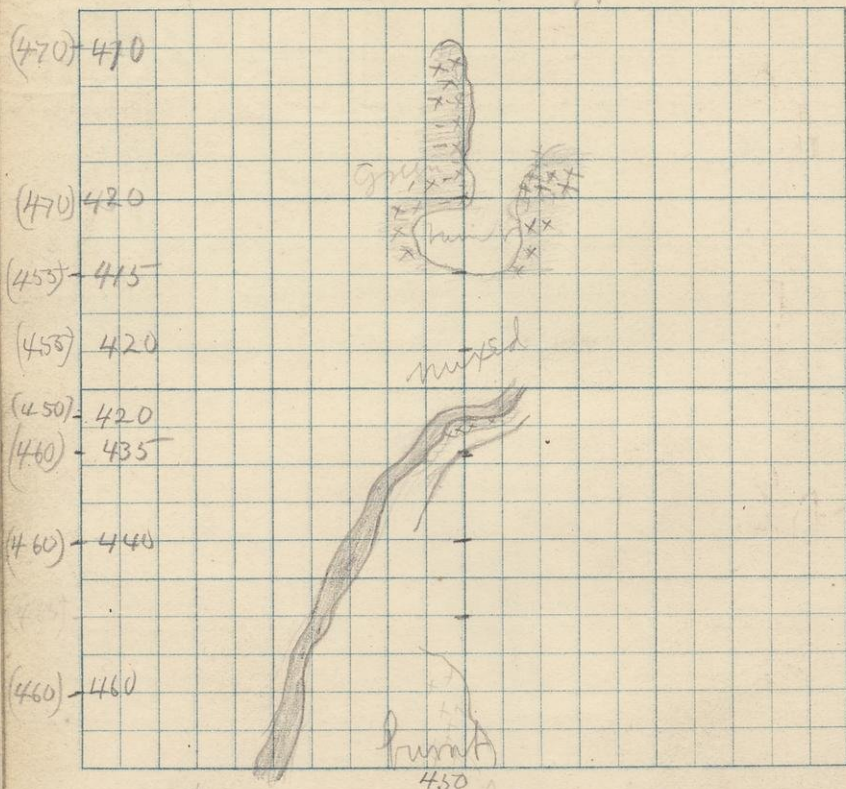
1500 3 PM

1600 2385

1800

BAL. 416.90

2405 at 320 P.M.



E 'Section line of 6

Sky clear

Bench mark

447. 1251

Answered 7 Am 23.90

Come in hunt timber. some thick
fairly heavy good pine recently burnt

200

2400

400

2405

600

2400

8.40

2400

875 cedar swamp

2390

923 Art River (burnt)

2390

955 other side

1100 cedar, balsam &c

2395

1200 8.02 Am

1300 burnt cedar

2395

1500 Kameack Swamp partly burnt

2410

1700 " taller green

2410

1900 burnt partly

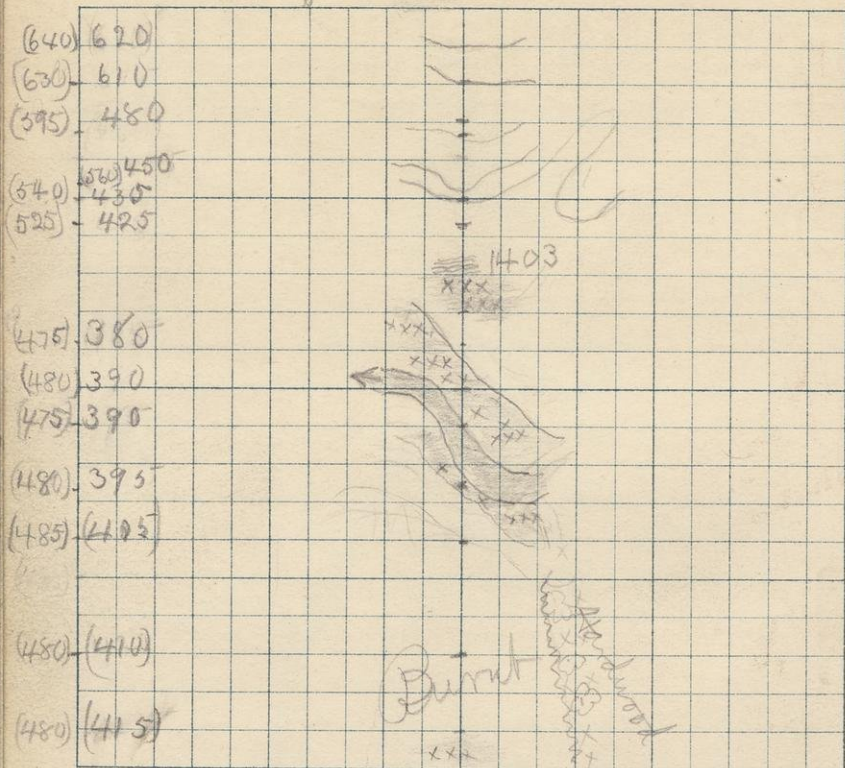
2410

Did not find corner.

19 Am

S. 7

T. 44 N R. 34 W



E line of 7

Top is South

Running S

100	burnt swamp cedar	2420
300	burnt timber	2420
500	" "	2425
600	" "	2425
720	cedar swamp	2420
770	Point or Menominee River	30
800	600 yds, flows SE	2415
900	other side	2415
1000	cedar swamp	2420
1065	Edge of above swamp	
1120	burnt timber 9.55 am	2415 ² x
1200	burnt cedar swamp	2415 ² x

No 1403: 14330, W.G. schist strike

about N 75° E dip about 50-55°

Ledge runs nearly in direction

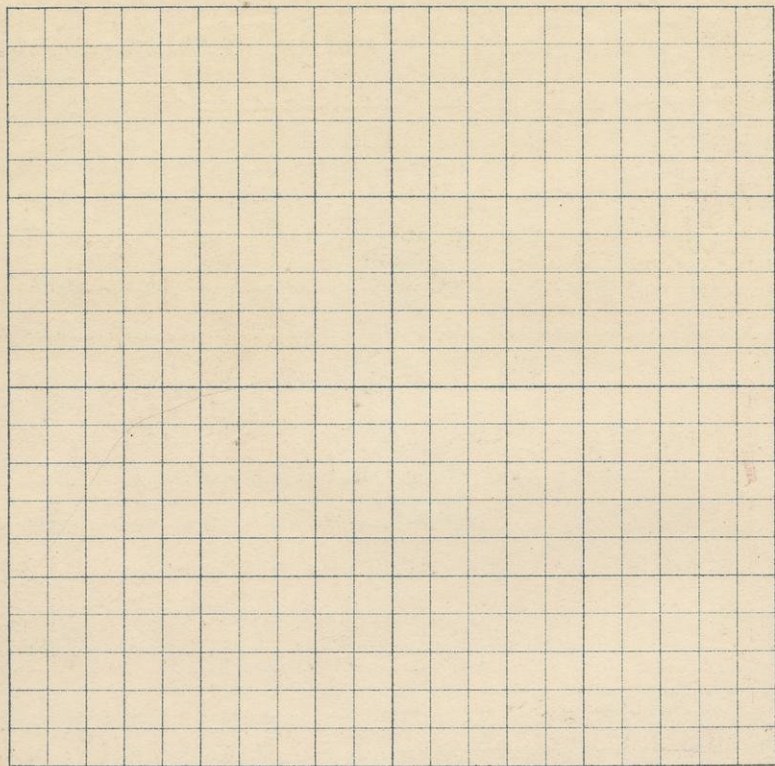
1403 apparent strike as is over 100 paces long + at western end, over 200 ft high

1430	10.15 Am	2465
1500		2480
1530		2500
1600		
1650		2525
1700		2535
1735		2550
* 1800		2570

S.

T.

R.



1830 10.30

1900

2585-

Struck ^{real} line at 181947
hunted [^] for ^{my} line some time
Jog of 100 paces in it.
Struck ^{real} line about
50 paces E of corner
Bench mark 504.74

Aneroid 10.53 AM. 2575-

S. 7

T. 44
(460)

R. 34

(460) 430

(455) 425

(465) 435

(445) 415

(435) 405

(445) 420

(445) 435

(460) 465

(480) 475

(445) 495



Burnt



xxx

xxx

xxx

xxx

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jump on 2 1/8 of 7
Bench mark

2580

Aneroid 158. 11.53 506.84

Bench mark in punt timber

1404 No 1404 125 ft 530 ft 2570

strike about E-W, Schist, with other (lit?)

200 burnt, & brush 2535

400 2533

600 Hunt cedar camp 2520

1405 No 1405 1800, W/O Schist; strike dip like 1404?

1000 in camp, followed blazed line

white line 400' Camp time

gives 700'

1200 burning swamp 2520

1283 Bank first branch of Paint

River 12.40 2515

1288 Waters edge 2510

1288 2530

1332 other side 2510

1350 top of bank 2520

1385 2540

1600 1.10 P.M.

1700 Burnt & burning timber 2540

1790 Bank of river? 2530

1830 Other side

1900 bank 2535

Struck line at 1997 paces 2535

Hit stake almost. 2535

S. 6

T. 44 N. R. 34 W.
(500) 445

(495) 440

(495) 445

(485) 435

(490) 445

(480) 435

(490) 445

(480) 440

(455) 445

(470) 435

Bunt

E 1/8 line of 460/475

Dry cloudy

going to on 2 1/8 of 6	
stake	2535
300	2545
500	2540
600	2530
648	
800	2533
1000	2565
1100	2535
1200	2565
1500	2560
1700	2570
1900	2570

Struck line at 2024, 22 paces
 W of Bench mark
 Bench mark 453.92
 Aneroid 158 2575
 2.35 PM

1/4 line of 1

Bench mark

52751

Anemoid 738. 7.15 Am

2660

Bench mark in mixed timber,
little good

100 burnt timber, thick bush

210 " ground falling

2655

260 " ground rises

2615

400 " " falls

2625

565 " ground falls sharply

2625

600 burnt cedar swamp

2580

700

2565

820 edge of West Paint River

2570

river flows E. 25 paces wide

going E along bank 50 paces E of
line, creek 3 ft wide, flows into
river from cedar swamp

2

850 ~~800~~ other bank 8.15 Am

2565

This N.E. 1/4 of 1 has been partly
cleared by a homesteader

1900 mixed timber

2590

9092 the road to homestead

1200 ground rises from 11-1200

2630

1300 mixed timber partly burnt

1400 burnt timber

2630

1600

2615

1700

2615

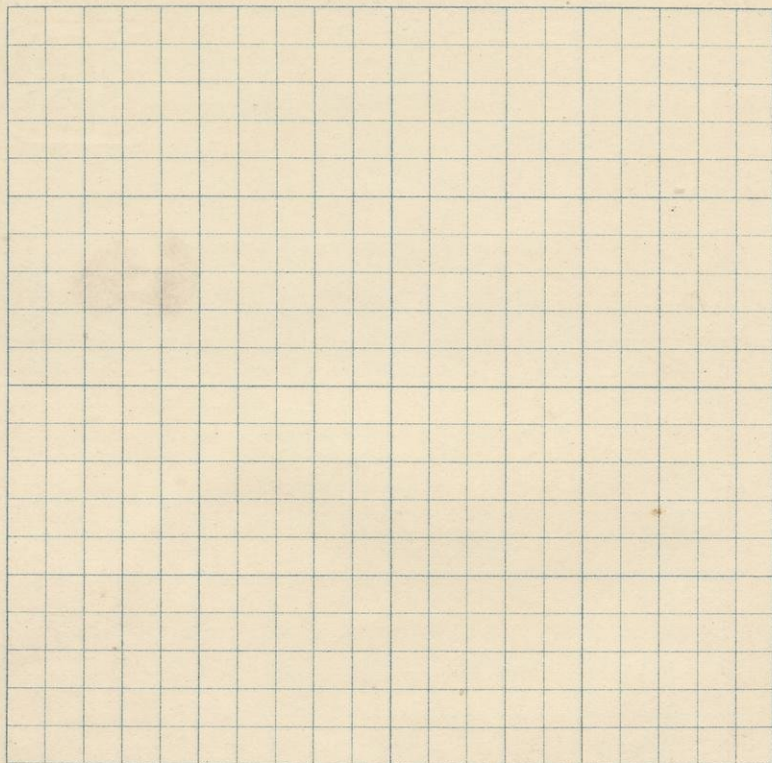
17715 cedar alder, Hamanack

2610

S.

T.

R.



1900 mixed timber

2615

Black line at 2006

6 paces W of 1/4 stake
9.03 AM

(2650)

June 5.

fine maple + birch

(570) - 570

(600) - 600

(620) - 620

(620) - 620

(585) - 585

(535) - 535

(560) - 560

(550) - 550

(535) - 535

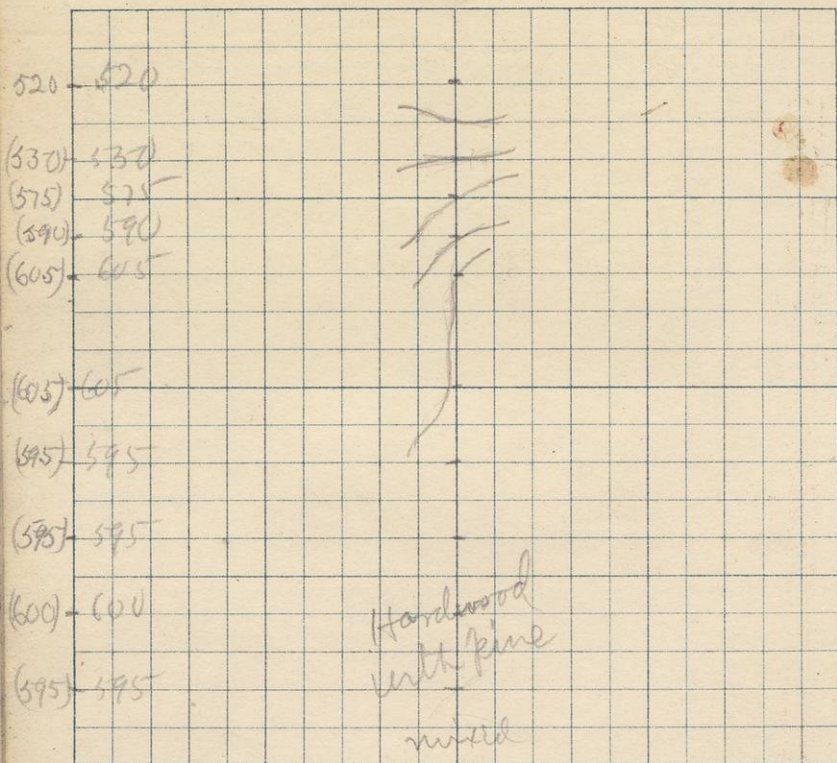
Hartford

(520) 520

June 5, 9.05 am

65

1/4 plate mixed timber	(2650)
200 good maple & birch	(2665)
400 " " "	(2475)
500 " running on " "	3030 E
600 " " "	(2650)
800 " " "	(2680)
1000 " 9.20 " "	(2685)
1100 " " "	
1200 " " "	(2715)
1300 following blazed line which gives	30 E
1450	(2750)
1600 using about 2030	(2750)
1800	(2780)
1900	(2730)
2000 blunts line at 2023, at line	
blazed for 1/4 plate by some lumbermen	
plus line	(2710)
True 1/4 stake about 20 paces E;	
Bench mark 25 about E	579.72
Aneroid 158 9.56 am	2700



2 N 1/8 of 12 600

Long N

Find on N $\frac{1}{8}$ of 12	698.42
Aneroid 158 910.06 Am	2725
200 mixed timber, some good birch	2720
400 mixed some good birch maple	2725
500 hit on E + W line exactly. about 8 paces from corner	
600 some good scattering pine	2720
700 mixed " " " "	2720
1000 10.25 Am	2730
1225 10.45	2730
1225 11.25 starting with, scattering hemlock - good	2730
1300 " " ground falls	2730
1400 W now runs on 2 nd 30° E	2715
1486 hit on 1/8 exactly	
1500	2700
1600 ground slopes more gradually	2675
1600 mixed - scattering pine hemlock hemlock - pine cut	2653
1800	
Struck line at 2003	2643
right at stake 12 M	

Ran this line in 3 $\frac{1}{2}$ E

S. /

T. 44

R. 35

(545) 545

Hardwood
minim

(535) 535

burnt

(545) 545

(535) 535

burnt

(545) (535) 535

(545) 545

(535) 535

burnt

(540) 540

Pine for

(530) 530

Hardwood

(535) 535

burnt

(535) 535

burnt

(535) 535

burnt

(540) 540

burnt

(520) 520

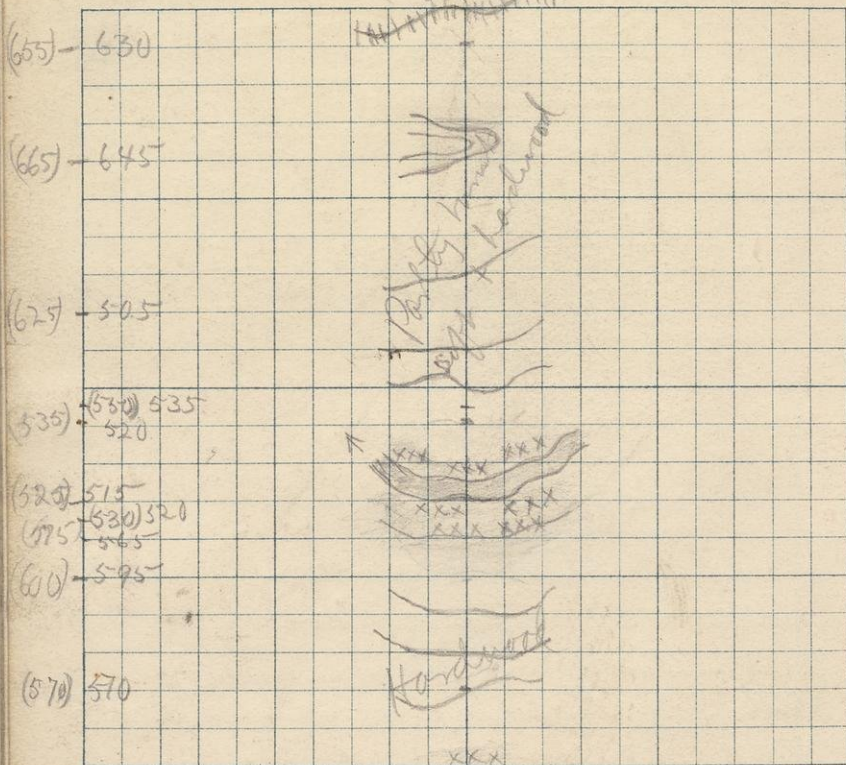
11 1/8 of 1

Spring N

12 M

69

1/8 stake mixed lumber fire cut	(2645)
100	(2653)
200	" " good maple (2665)
400	" " " " (2680)
500	" " " " (2690)
500	" " " " (2690)
2616	tole road " " 30.55
800	" " " " (2690)
900	" " a little peeling pine (2683)
1000	mixed lumber (2665)
1500	(2680)
1200	(2670)
1230	near Paint tank (2660)
120	near as on 85 paces wide on off N
120	near cedar swamp
1300	near cedar swamp
1350	mixed " " (2660)
1400	(2670)
1565	(2680)
1600	(2600)
1700	Ramming (2570)
1800	Heavy timber, mixed lumber
	good maple thicket
Struck here at 1946, 1245	(2675)
1.05	Answer 153 (2670)
Bend mark	544.17



E 1/8 of 2

615

Sky Clear or Cloudy

Running on about $3^{\circ} 30' E$
for whole distance

Top is South

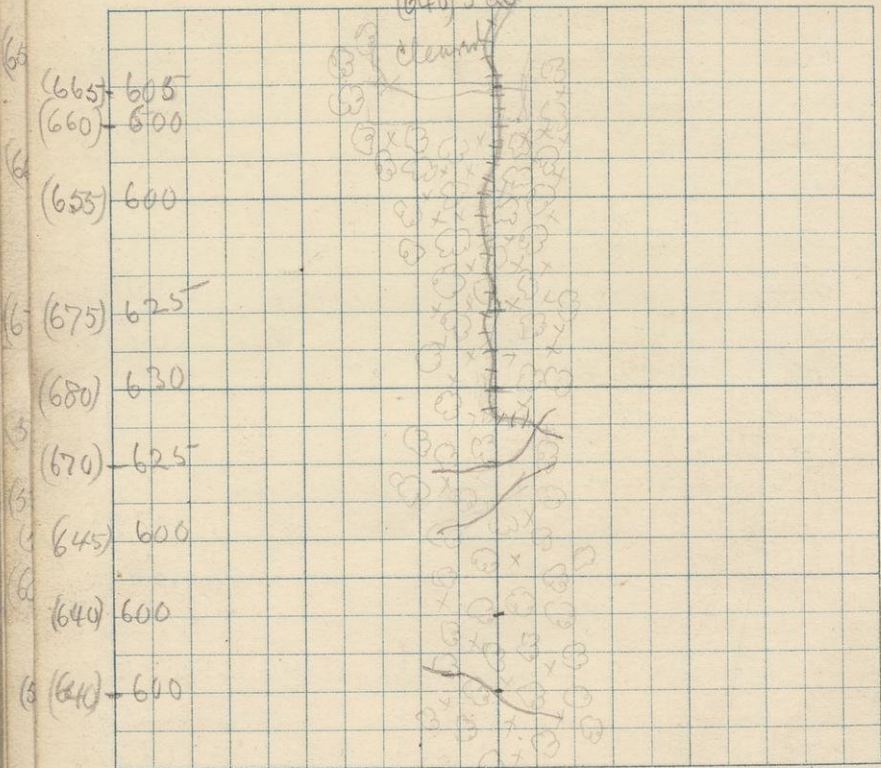
July 13

71

Bench mark

7.15	Am. Anemoid 58	27.92 in	513.72
	Corner in "wet ground - cedar & soft wood		2765
200	Some good maple		(2760)
433	edge of bluff burnt		
500	burnt		(2850)
600	burnt cedar swamp		(2825)
650	green " "		(2780)
700	edge of W branch of Paint R		(2775)
735	other edge		
800	dead cedar swamp		
905			(2785)
950			(2800)
1000	7.45 Am		(2820)
1100	partly burnt hard & soft wood		
1200			(2875)
1600			(2915)
1700			(2910)
1900			(2905)
2005	to road good one		
	Struck line at 2040 paces		
	5 paces W of corner		(2905)
	8.20 AM		

S. 11 T. 44 R. 35



2 line of 11

Group 5
 Came in fine maple thicket

200	mixed timber	2890
400		2890
600		2895
800		2920
925	to road - good one	
1000	in to road	2930
1100	in to road	2930
1200	" " "	2925
1500	ground slopes gently up!	2905?
	This drop must be atmospheric	
1700	edge of wood	2910
1780		2915
1800		

Struck our E & W line at 1830
 paces at a stake 5 paces W of
 Bench Mark 285.59
 9.36? Oneoid 158 28.90

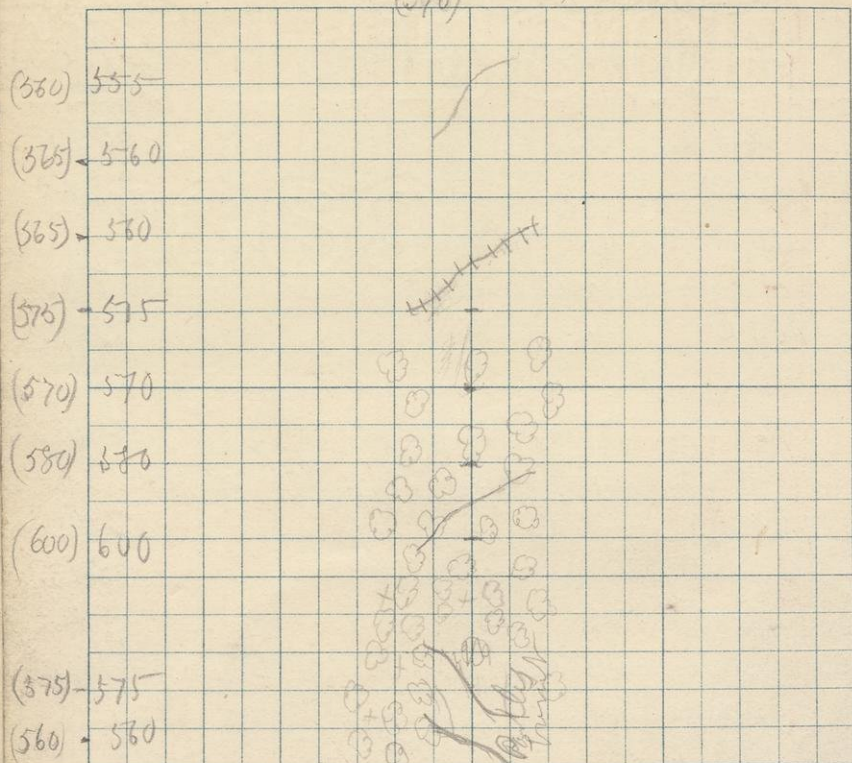
74

S. 11

(370) T. 44

R.

35 W



E 1/8 line of (575)

For 1000 run in about 3° 30' E

Long N. 10.20 Am

75

1020 Bench mark 573.38

Aeroid 158 2895

75 Partly burnt 2880

land partly cleared by homestead

200 grass field 2895

500 edge of clearing

600 good mixed timber, some 2920

good maple & birch

800 2900

900

good maple & birch

1000 10.42 2890

1200

2895

1345 the road

1400 mixed timber some good maple 2883

1600 " " fine cut recently 2885

1800 2870

Struck line at 2004 1/4 sec
N of a lumbermans 1/8 stake.

11.20 Am

2890

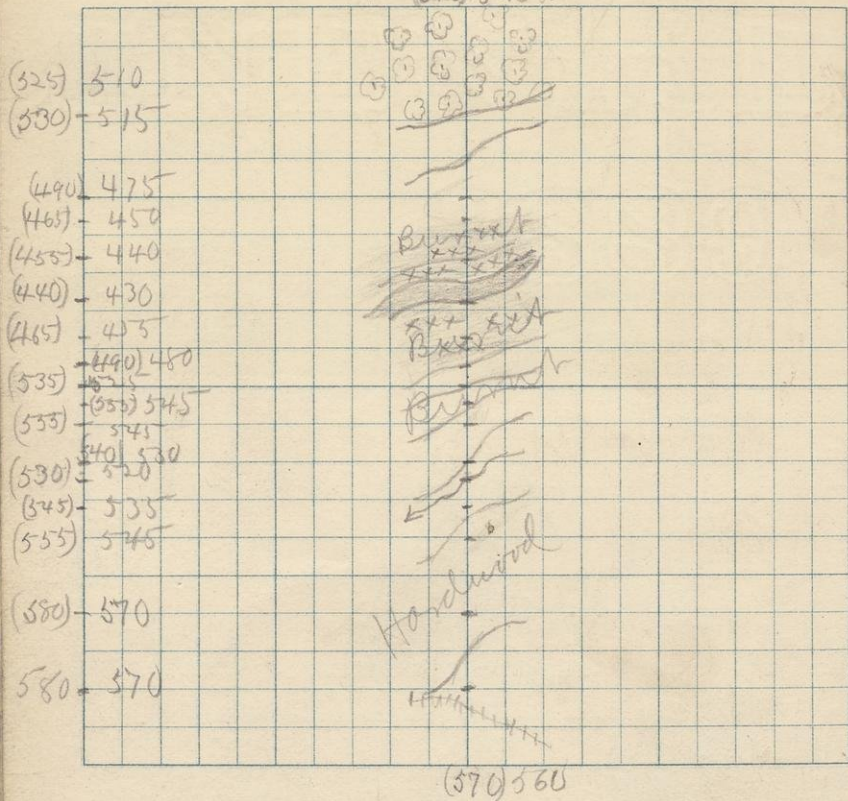
S.

2

T.

640 555 4

R. 3574



Running on surface of old plot here
 39% about
 By Clear
 Air very sultry.
 Aneroid kicking about

Going N from E of stake of 2 77

Corner in mixed timber good maple,
pine to S of here all cut, 2890
133 old coke road

200

(2900)

400

(2900)

600

(2875)

I think this fall due to atmospheric

675

disturbance
Edge of bank

(2865)

700

750

dry brook bed, burnt timber

(2850)

Stream ran East

800

burnt timber, thick brush

(2860)

900

top of bank

(2875)

900

11.54

950

edge of Paint Run (McKunich)

valley

(2875)

1000

burnt, thick brush

(2855)

1060

dead or burnt cedar

(2810)

1130

(2780)

1225

Edge of N branch of Paint

(2760)

1275

other edge

1340

in green cedar swamp

(2775)

1345

burnt cedar

(2775)

1440

" "

(2785)

1500

" " + softwood

(2785)

1600

(2810)

1725

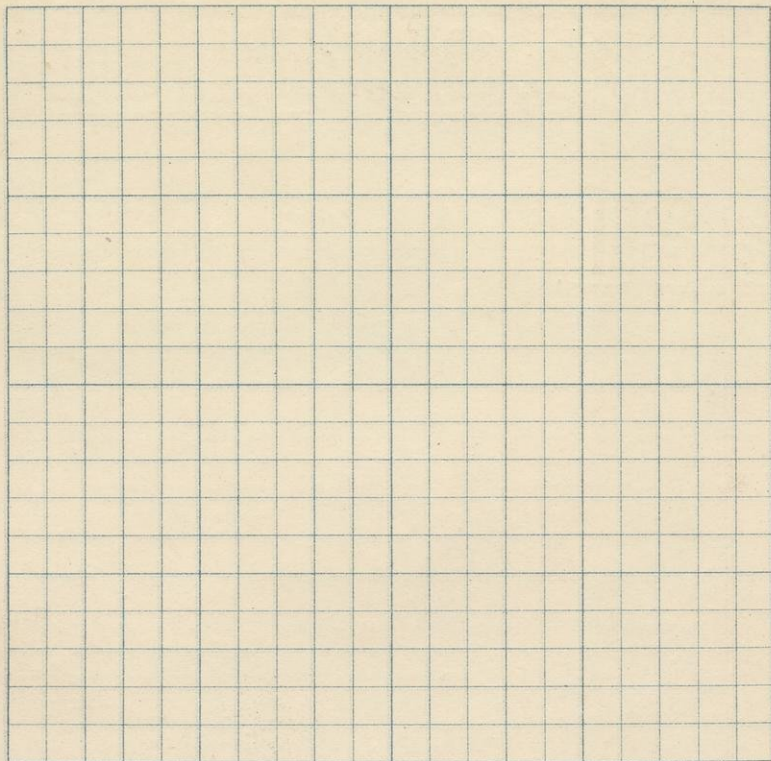
edge of mixed timber

(2850)

S.

T.

R.



1800

2845

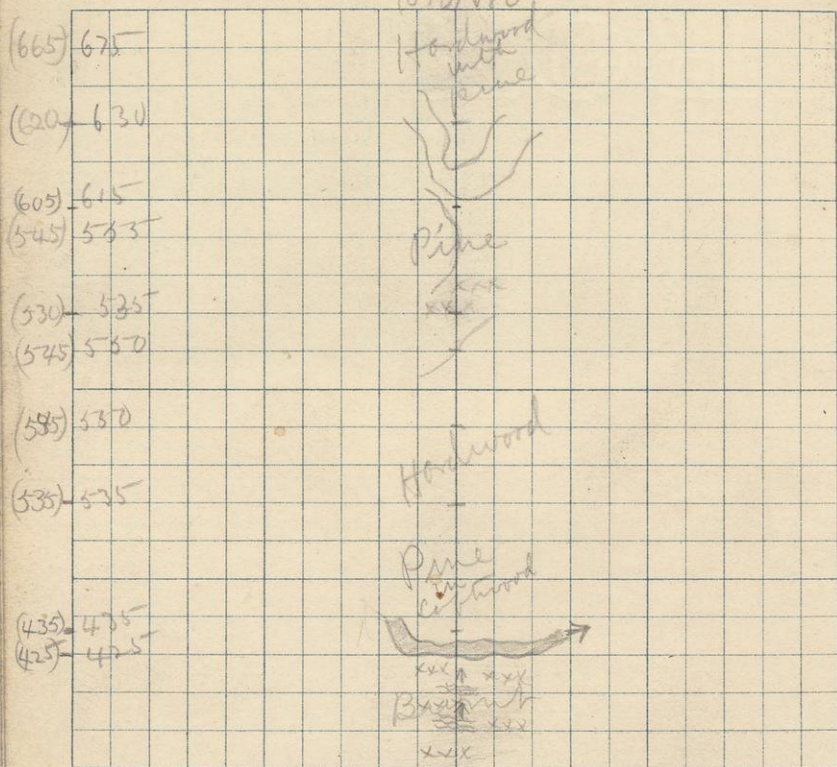
Struckline at 2016 paces,
page # of Bench mark 7
aneroid 158 2860
Bench mark 524.73

70

S.3

T. 44 N

R. 35 W



1/4 line of 3; going South.

Barometer Low
Sky Cloudy

TOP IS SOUTH

July 27?

223

81

Going S

Bench mark

453.63

745 Am Aneroid 158

(2680)

In cedar swamp burnt

1406

No 1406 N 187.7, N 1000 ft of slate (?)

Strike N 75 W; dip 65-78 N. outcrop
50 ft long

1407

No 1407 N 1800, N 1400 Crasser granitic
thicker rock - quartzite. Cliffs +
dip are about the same as

1406.

300 to edge of West Branch of Paint river.

25 paces wide - flow E. Raining

325 Other side of river 605 ft (2650)

340 top of bank - soft wood - some very

good pine - not very thick (2660)

700 good maple & birch (2760)

900 (2770)

1100 Soft wood Raining (2770)

1200 - 1300 cedar swamp (2753)

1400 Some fine pine - but not very
thick (2770)

1500 ground rises sharply (2830)

1580 (2845)

1700

1900 good maple & birch; some
good pine but scattering (2890)

S. 10- T. 44

R. 35

(560) - 595

(570) - 605

(575) - (600)

(533) - 580

(562) - 585

Pine
in
"mixed"Pine
in
HickoryPine
in
mixedmixed.
with
Pine

1/4 line of 10

Spring S
Top of map SouthRaining - notes taken on
slip of paper

Struck line at 462022 ⁸³ paces
5 paces W of 1/4 stake
Anemoid 158,935 Am (2895)

Gongs on 1/4 line of 10
5 paces W to road fair - running
along near section line.

Mixed timber - mostly softwood
with a little good pine.

200 - record lost by getting wet

400 mixed timber, mostly softwood (2890?)

600 record lost by getting wet - a little
pine of fair quality.

(A.B.) as it was raining & brush was
wet I kept record on a specimen log

This ^{record} ~~record~~ illegible & also in places

1040 ground near 28809

1100 hardwood good maple - some pine, good.

1200 " 10.35 km (2900)

1400 " fine maple; some good pine

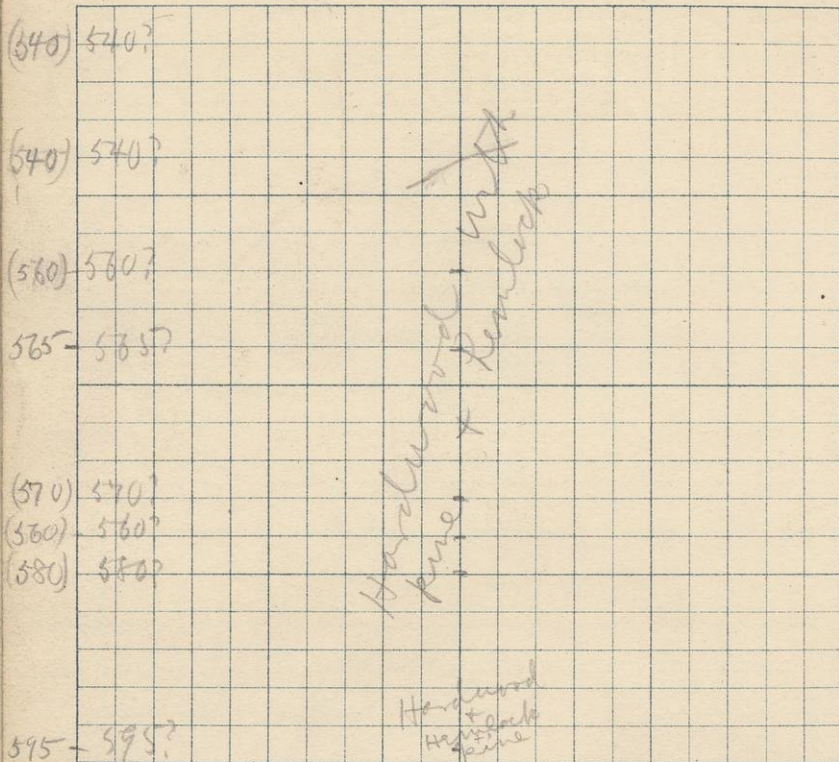
but scattering 28907

1600 mixed some maple 28831

1800 " some good maple

Struck

Struck line at 1985 paces
10 paces E of corner



Going N. N $\frac{1}{8}$ of 10

Running on 3° 30' E

Spy cloudy

Bench Mark 50 597.25
 Aneroid 158 11.25 Am (2880)

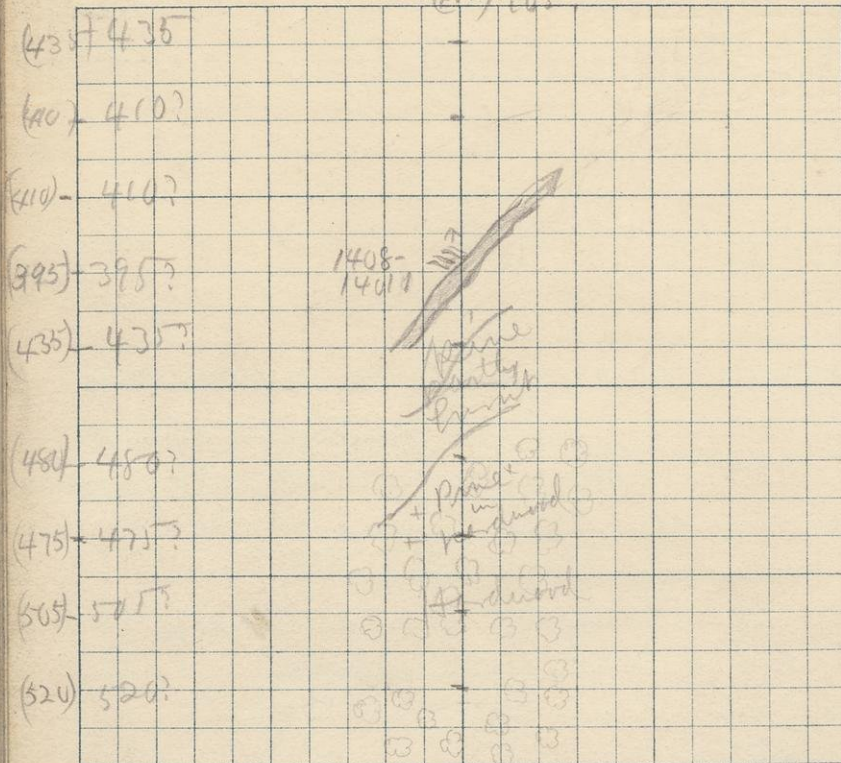
Gang R. on W 1/8 of 10 265
 Bench Mark 605.80
 Aneroid 138 2870

Mixed timber, a little scattering
 pine of good quality. Our
 water tight (?) compass south
 inside that cannot read
 within 2°.

30 "Mixed" maple, with a
 little fair hemlock (2860)

500	"	"	"	(2845)
700	"	"	"	(2825)
800	"	"	"	(2835)
1000		1	25 Pm	
1100				(2830)
1300				(2825)
1600				(2805)
1900				(2805)

Hit line at 1995 paces
 2 paces E of stake, followed a



Long Ar on W 1/8 line of 3
Sky cloudy

Blazed line for 1200-1500 paces
1.05 P. M. 2800

Going N on N $\frac{1}{8}$ line of 3
100 good maple
180 burnt timber, a
homestead.

200 (2783)

350 woods again

400 " (2770)

600 (2744)

700 some good large pine (2740)
not very thick

800 (2745)

1000 partly burnt pine, some
good pine not burnt

1100 (2700)

1275 edge of West Branch of Paint
River. flows N.E. (2660)

1300 other side

1408 has 1408, 1409, 1410, 1285

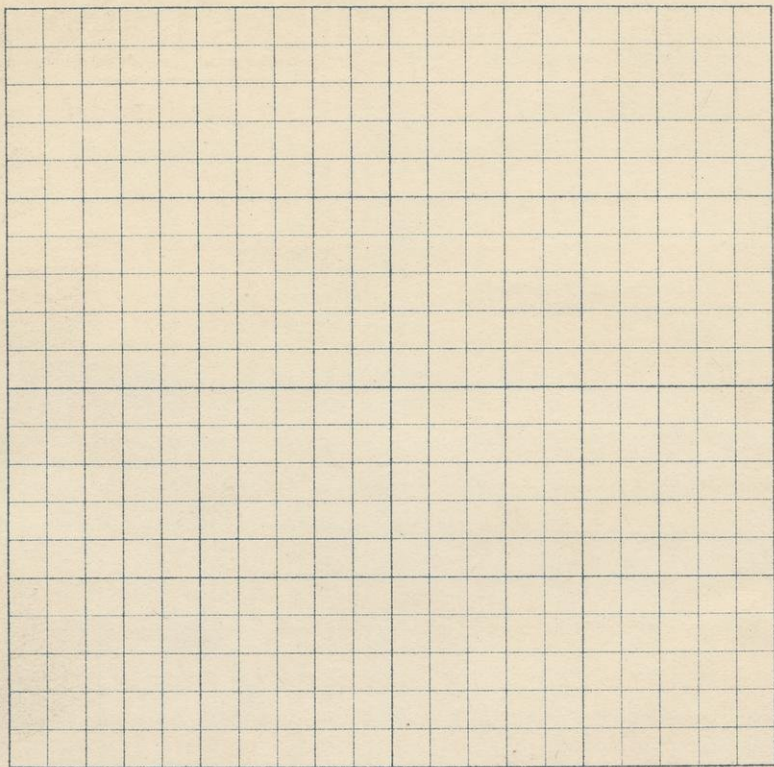
1409 1305 N; 1500 N; strike N 65-70

1410 E, dip about 70° N. (Compass
has lot of water in it & plumb
not thick) Ledge outcrops on
N shore of river in its bed.
Rock varies in texture & color & schist.

S.

T.

R.



Layers not very distinct

89

1411 18 to 1411. N 1325-1335' N
1500 Strike at top, practically
about parallel with pre-
ceding outcrop N 70 E, 70 N

Rock is of coarser texture than
preceding. This fact shows con-
clusively that what I have
thought was the strike & dip of
the three plates & schists is really
20 - 5 - 1

1500 burnt pine (2675)

1600 thick standing pine - of
poor quality - punky.

1700 (2675)

1900 (2700)?

Struck line at 1980 paces

4 paces N of Bench Mark

Bench Mark 466.98

Aneroid 158, 3,53 Pm 2700?

Amesoid 158. 745 Am

200 Bunk timber same planing,
pine to left of line - thick, but
of poor (2615)

500 (2610)

580 little swamp (2605)

1412 600 on outcrop 1400 N. - O. W. strike

1413 740 N 20 W dip 66 N Plate or
Schist, called "greenstone" on old maps -
outcrop a large one

1414 700 on outcrop 1300 N. O. W. (2615)

strike N 15-20 W dip 65-70 N. Rock
practically same

750 (2585)

500 910 1000 in swamp

1218 Edge of W. Branch of Paint

River. River flows N.E. (2565)

River 500 65 paces wide

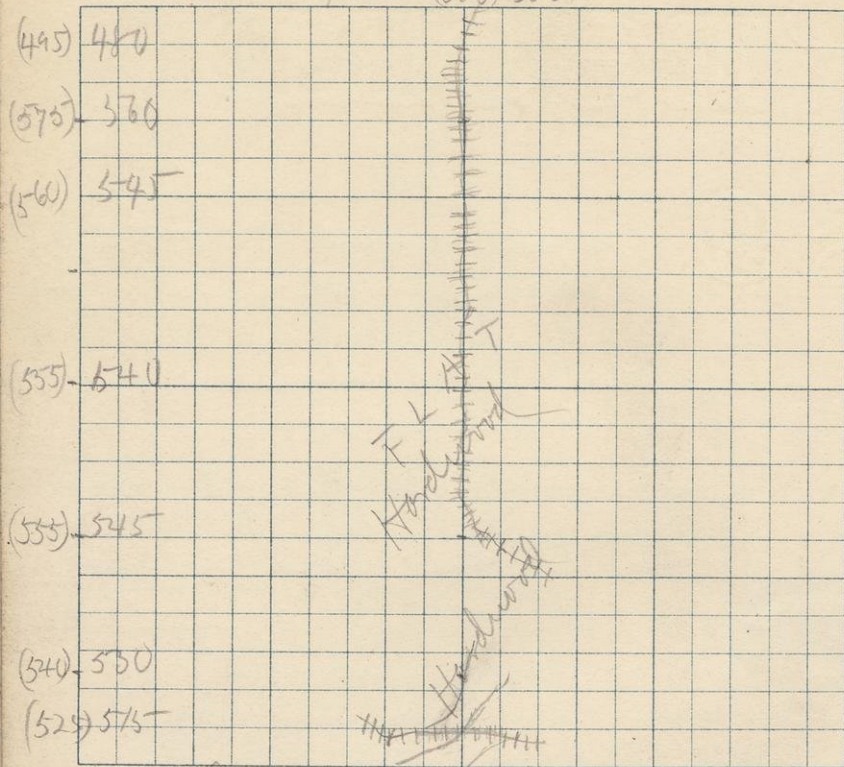
1300 other side

1400 bunk pine + cedar (2610)

some ^{green} standing pine of fair quality

1700 bunk cedar (2625)

1500 Shuck line at 2105; 5 paces W
of lake set by T. Howie (2660)



Line of 9

Going S.
top of map South

Burnt cedar

70 tot road

100 Edge of hardwood (271)

240 Hardwood, with cedar & hickory (2690)

Some good maple

600 " " 9:35 AM (2705)

700 tot road to Mohrston mill (2710)

900 mixed some good pinch maple (2705)

1000 hit quarter post 2

1000 fine maple & birch (2705)

1300 " " " with a very

little scattering pine of fair quality (2705)

1500 " 9:50 9:7 " (2710)

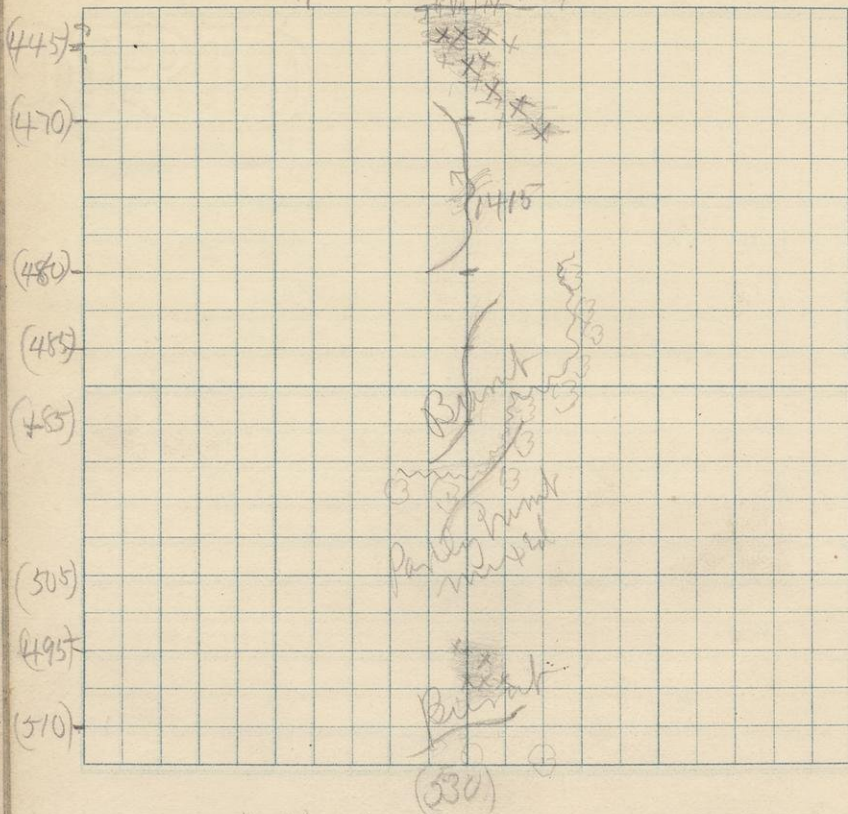
1700 " (2725)

1900 " (2745)

Struck line at 1990 at
stake ^{25 paces} followed road from 600

paces - Bench mark 385.28

10:04 AM Aneroid 158 2750



E 1/8 of 9

No 1415 metamorphic greenstone
now a calcite chlorite schist.

(470)
(495)

(515)

(515)

(485)

(490)

(490)

(480)

(460)
(480)470
420

Cherry bush

Cherry bush

Cherry bush

Burnt

Cherry bush

(460)

x
x
x
x
x
x
x $\approx 1/8$ of 4

These aneroid readings unreliable
 Did not interpolate.

1 km 97

Long N stake in thick alder 2640
 52 paces edge of W branching bank
 110 40 paces wide flow 2640
 110 other side
 150 edge of dead cedar sedge 2640
 juniper, cherry bush
 300 top of valley 2660
 300 gne 2670
 700 2671
 975
 1000 2670
 1200 2665
 1400 2690
 1600 2685
 1700 2680
 Bunch maple, cherry bush 2685
 1900 2675
 1985 creek 3 ft wide flow 2680
 Struck line at 2005, 15 paces
 N of Bench mark
 Bench mark 26805
 2 1.57 Km Anenid 2666

S.

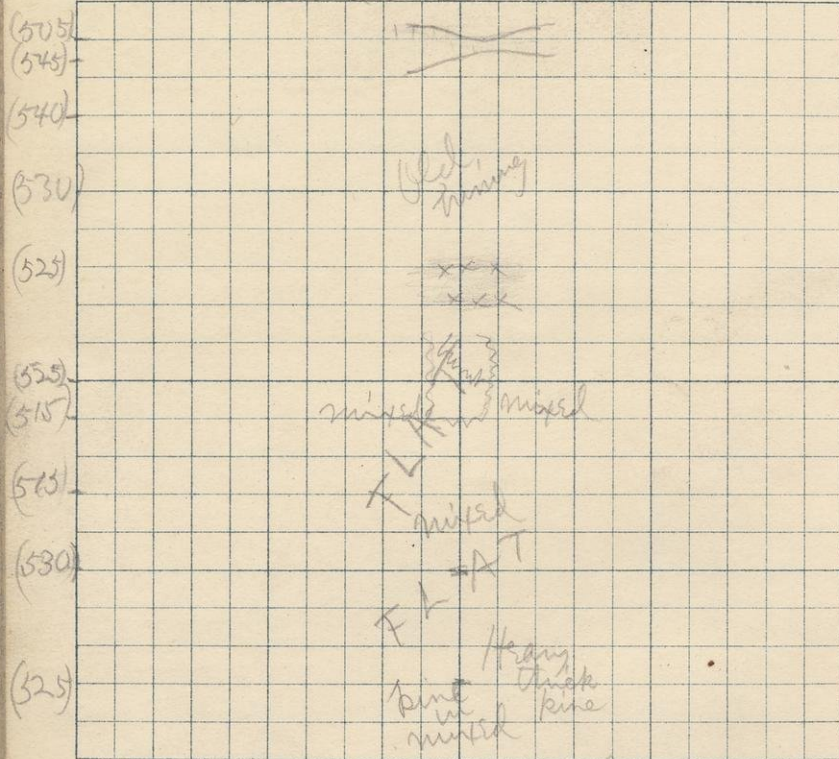
5(480)

T.

44 N

R.

35 W



530' Young Son 1/4 line of 5

TOP is South

Bench Mark 528.94 99

Achoid 158 52640 7.35

200 mixed timber a little pine of fair
quality ~~just~~ ^{uncut} on West grade.
Very thick & heavy pine on West (2635)
Amater 1325

500 (2646)
(5501)

Pine cut, thick under-
brush - hazel bushes & maple

700 (2621)
565

800 mixed timber

900 hunt opening 2625

1000 S. 34 Am 2635

1200 cedar swamp 2635

1300 " progress road (2635)

1400 9.30 Am

1500 once hunt - now, thick brush, 2640

1700 " " maple bush brush 2650

1850 " " thick poplar brush 2655

1890 well-worn trail 2658

1900 2655

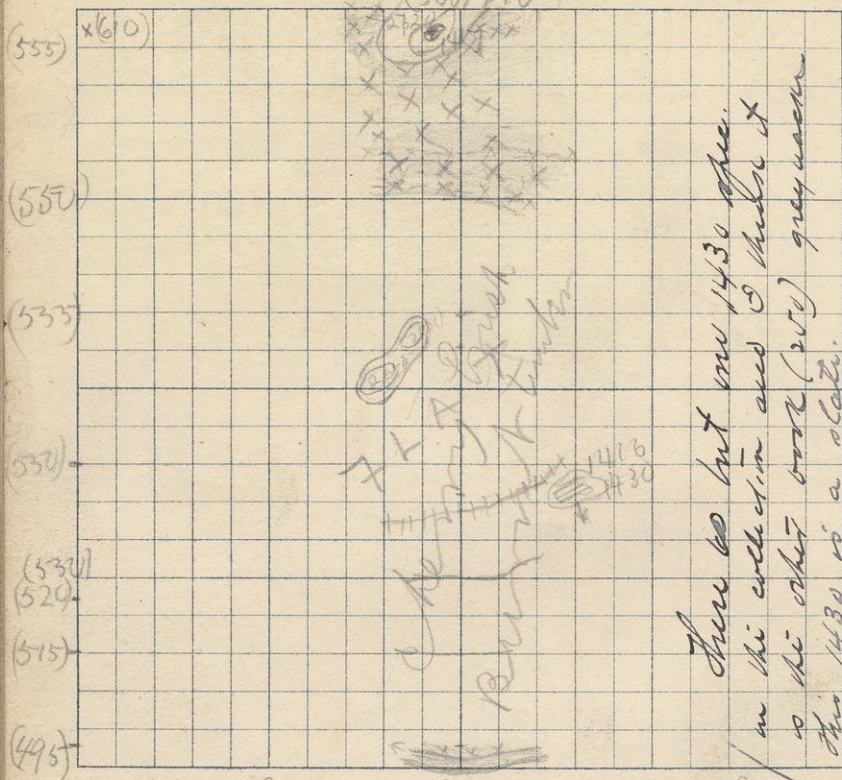
Hit quarter stake Hit line at
1989 5 paces E of quarter
stake. Stake on N shore of
W. branch of Paint river

Row 30 paces wide flows E 2690
25

S. 8

T. 44

R. 35



1/4 line of 8 going S

Play very kazy
Smoke from forest fires

TOP is South
Bench mark right?

(also a #1430)

10.05 AM

30 other side of river
50 Swamp

100 burnt - cherry + poplar brush 2605

300 " " " (262)

450 " " " (2630)

500 " " " (2640)

575 " late road " " pod 2660

800 11.30 AM 2660

No 14167/1430/1290, 1416/1205-1240, Strike

1416 N 50° E; dip 45° N banded purple
arched slates. outcrop very conspicuous1430 slate weather white and, Rock in
lake any outcrop yet seen. Outcrop a
knob over 20 ft high in burnt sand plain

1000 (No 1430 shows weathering) 2665

1200 10.53 AM 2665

1400 " 2670

1500 edge of swamp tamarack forest

burnt at 1570, taller 2660

1700 in Swamp 2660

1920 edge of Swamp 2665

Hill top of line top of hill 2720

This hill is composed mostly of 2720

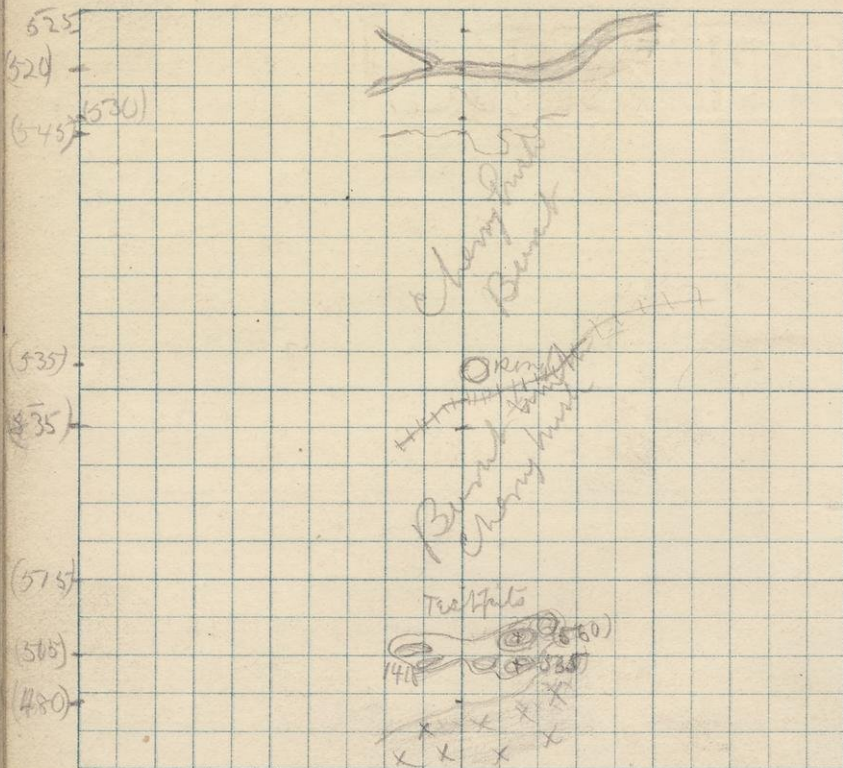
1417 slate fragments but nothing that

could be regarded as true outcrop north

Strike line at 1989, 4E, BM 463, 73

11.40 AM road 155 2670

also a
in Bore 50
Erm



W 1/8 of 8

1420 - not found

Mistake of 100 ft in bench mark
or in reading aneroid.
Did not interpolate

corner in tamarack swamp
Bench mark 471.28 103
Aneroid 158, 12.46 2695

190 other cedar swamp

190 other side of it (2705)

300 Bunk - (2700)

1418 No 1418-20 N 375 W 1530-1575. Strike

1419 N 70 E, dip about 65° N. Rock

1420 has appearance of a conglomerate
on weathered surfaces. Rock is
greenstone

Top of outcrop (2780)

? No 1422 same rock N ⁻⁴²⁵ 375 W 1300-
-1415. Strike N 50 E dip 45 N-60 N
Top of outcrop & end about (2800)
300 (2788)

Numerous test pits / hauls.

2 PM 153 PM?

No 1429 from test pit. Strike N
1421 65 E, dip 70 N N 500, 1440

15005 W. Slate, immediately on 1422

No 1420 from test pit. N 1495,

1422 1500 W good iron ore.

Test pits poorly laid out - on strike.

900 2 PM (2660)

(575)

Hard
with
pine
hardwood

585

(570)

Reddish
hardwood
underneath

(580)

(525)

Reddish
hardwood

(585)

Blunt
underneath

(560)

xxxxx

(525)

W 1/8 of 5

975

hole road

burnt

58

105

1030

hardy

burnt

1266-1400

1600

211

poplar & chan.

1670

ground falls

1700

1840

edges of West Branch of Paint

wide

flour &

2437

1940

burnt

Did not

Did not find 1/8 slate or E + W

line

100 burnt poplar brush

167

sugar spruce, larch, alder

140

all kinds of

200

burnt timber poplar brush, ground

uses

300

400

600

800

870

1000

1415

16

1200

1400

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4100

4200

4300

4400

4500

4600

4700

4800

4900

5000

5100

5200

5300

5400

5500

5600

5700

5800

5900

6000

6100

6200

6300

6400

6500

6600

6700

6800

6900

7000

7100

7200

7300

7400

7500

7600

7700

7800

7900

8000

8100

8200

8300

8400

8500

8600

8700

8800

8900

9000

9100

9200

9300

9400

9500

9600

9700

9800

9900

10000

10100

10200

10300

10400

10500

10600

10700

10800

10900

11000

11100

11200

11300

11400

11500

11600

11700

11800

11900

12000

12100

12200

12300

12400

12500

12600

12700

12800

12900

13000

13100

13200

13300

13400

13500

13600

13700

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13900

14000

14100

14200

14300

14400

14500

14600

14700

14800

14900

15000

15100

15200

15300

15400

15500

15600

15700

15800

15900

16000

16100

16200

16300

16400

16500

16600

16700

16800

16900

17000

17100

17200

17300

17400

17500

17600

17700

17800

17900

18000

18100

18200

18300

18400

18500

18600

18700

18800

18900

19000

19100

19200

19300

19400

19500

19600

19700

19800

19900

20000

20100

20200

20300

20400

20500

20600

20700

20800

20900

21000

21100

21200

21300

21400

21500

21600

21700

21800

21900

22000

22100

22200

22300

22400

22500

22600

22700

22800

22900

23000

23100

23200

23300

23400

23500

23600

23700

23800

23900

24000

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29200

29300

29400

29500

29600

29700

29800

29900

30000

30100

30200

30300

30400

30500

30600

30700

30800

30900

31000

31100

31200

31300

31400

Bench mark

Aneroid 138, 8,35, 506.27

27.75

Bench mark in mixed timber
partly burnt

300

(2775)

350

alder seed sprouts

(2770)

700

Snaps are met gradually. ends
about here

2775

800

Begins to rain

900

Some standing pine - good

2765

1000

30 paces west of line

1000

on line

8.03 AM 2765

1100

Chiefly spruce & tamarack

2775

1300

mostly spruce

2760

1380

head of creek 3 paces

1380

now almost dry; creek just 8 m

2770

1423

To 1423 - N, 485; N.D. a slate
ore but similar to many seen before
outcrop is much broken up
by weathering. Maybe about
N 60 E dip about 70 N

1424

N 490, W 10 outcrops

similar to preceding strata

1500

only a continuation of it

Strike

dip 80 N 10 W

1500

partly burnt softwood

2755

1750

edge of north fork of creek

1750

branch of stream joins main stream

2740

1750

Pass wide of flows

2740

2.5

Long S on E line of 6
(450) Running on 30-330 E 107

305

←
porty hunt
(465)
(455)

↑
1423
↓
1424
- (485)

mixed

pine (495)

XX
XXX
XX
(500)
540
(505)

mixed
(505)

Very cloudy

Top is South

E line of 6, 44 N 35 W

1800 unit, cherry bush 2735

Strike S fork of W branch of
 Point at 1790 about 100
 paces N of forks! There is a
 big west ranahan near the
 section here between the quartz
 post & here. How in the
 name of common sense did
 the man who first ran the
 section give it through? 1790
 change of ranahan is recorded
 on the old map
 coming N last night on N
 1/8 line of 8 we must have
 struck very near our 1/8 post.

Running N from it we came
 out nearly 80 paces N of our
 line 1/8 on the N side of 15. This
 line needs to be run with a
 good dial compass on a clear
 day.

By going N 300 paces to strike cor-
 ner post a little N of corner post (P)
 Right def. by J. H. Smith, & Fortune
 corner post 10.12 AM 2780

200

250

edge of S fork of W branch 18

paces, middle

270

other side

2790

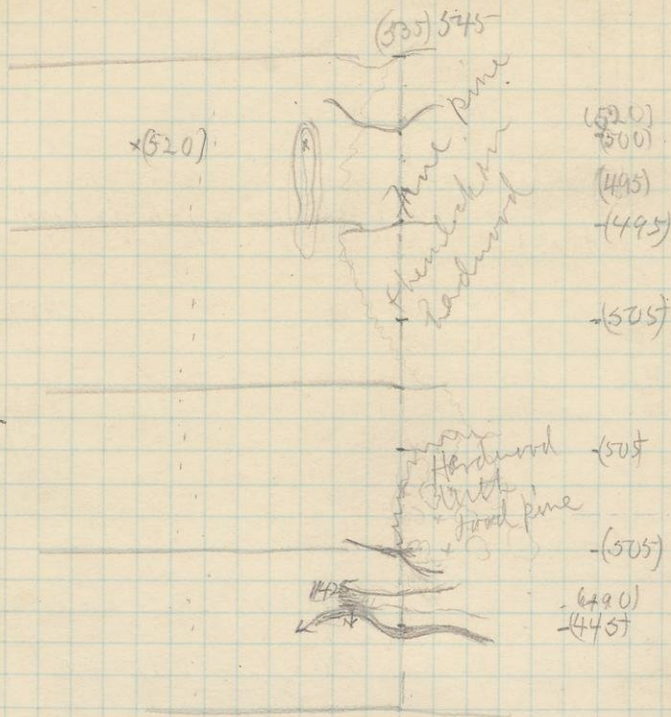
2715

S strike N 65 E; dip 65 N

14-25

N 1700; N 1830 in section 8.

This outcrop is 200 paces down



2 line of 7 44 N 35 W
Top to South

How can these readings be properly
interpolated? - around only 10 ft off at
knock mark.

Stream from where line crosses
stream at 270
Outcrop forms a bluff 40 ft high
on side of stream. 6/1 2760

350 burnt - cherry bush 2765

500 " some 2775

Hardwood, with fine heavy pine
& some good scintillating hemlock
W of hole

800 " 2775

900 " 11:15 AM

995 " 11:30 AM 2775

1200 following trail 200 paces W

from edge of wood 2785

1300 on trail 2765

Trail is on mixed timber, mostly
hardwood, with fine pine
color line 50

Trail 60? paces from line at

1500

Go back 200 ft back to top of

trail, trail at bottom of it. 0

1600 2765

1800 2740

1775 2770

Struck line by following trail; about
2040 paces

Bench mark, on edge of burning

Bench mark 345.08

Android 788 2805

11:53 AM

- going N on E 1/8 of 7
 mixed timber
 Bayish marsh 543.32
 1.07 PM Anegrid 158 (2816)
 200 mixed pine maple &
 300 heavy scattering pines (2800)
 400 fine pine not thick (2800)
 500 (2815)
 700 mixed pine maple & pine (2825)
 900 pine & hard wood pine not thick (2833)
 not heavy
 1100 " " (2835)
 It rains again, the
 rise in elevation disappears
 near the edge of the marsh 1213 PM
 1150 found 1213 - maple & oak (2865)
 1200 fine pine - thick & heavy (2800)
 ground falls quickly
 1375 (2735)
 1489 edge of 55th of N branch
 of Pine run - 20 paces under flow
 (2725)
 1600 on the side
 525 north - poplar & oak (2735)
 1700 (2745)
 Struck line at 1993, 3 paces
 E of stake
 used 3° - 315° E variation
 18




 $(465) 490$

 $465 \ 485$

 $(465) 470$


 $(445) 455$
 $(430) 435$

 $(430) 430$

 475

Edge line of S 1/2, Sandy

128 Rm

160

2740

320

of Park - edge of 1/2 pipe of W branch
25 paces up - plane 9 2735

350

other side 7. 40 Rm

400

older swamp

435

oldy hole - ground near

520

mount - poplar bush

535

top of rise

2780

550

old trail

60

700

same; poplar bush

2785

950

850

" " "

2780

1000

" 3.05 Rm "

1100

" " "

2790

1300

poplar bush - occasional poplar

6 in

diameter

2810

1400

1400

edge of swamp, chiefly

1620

spruce, 4 older balsam

2760

1800

in swamp

2690

1870

edge of swamp

2900

2900

Track line at 2005

next to Riche, W

splendid run - near

Richer

Beuch mark

504.61

line of 158

2720

4.50 12 Rm

505 (450)

X X X
X X X
X X X

- (490) 535

- (510) 530

- (665) 525

- 465-500

- 470 530

2' 18 dg 6

44.35

Gong Xun 11400 ft 25, 1745, K36

8.30 AM	Penckman	522.34
late	ancient	26.62
200	bank	26.55
400	"	26.50
500	"	26.60
750	edge of woods - hardwood	
800	hardwood	26.75
1000	mostly, softwood - swampy	
1200	"	26.80
1300	Spence's cedar, alder, swampy	
1400	"	26.70
1500	Edge of Swamp	
1600	partly, brown	26.80
1800	"	26.85

9.54 AM Hit Quarter Stake by following
up blazed line at 1910
make the 1000 paces?

Going to 114 line of 26 Started on 30.30

30 paces	edge of cedar swamp	
thick	white growth	26.60
165	Orch 2 ft wide flower	26.60
250	edge of swamp	26.60
300	bank, thick brush	26.75
500	alder swamp	26.85
575	edge of orch 20 paces wide	26.50

600 other side 26.35

775 paces N 1000 W, out strike

1650 dip nearly vertical 90-100

outcrop of plate - pink - may be

1426 boulder - surface considerably broken up

by weathering - outcrop about 25 ft

square + 20 ft high 26.45

local variation

10.40 AM 5.0 E (26.20)

140

X 565 (610) 117

X

(535) 520

(585) 560

(530) 575

X

(585) 535

(530) 520

(540) 530

(570) 545

(560) 535

(550) 530

hardwood

(520) 575

(570) 510

Brown (515) 575

(535) 575
(520) 500

(520) 520

1/4 of 25

1140 7 45 R 36

L

11	1000	burnt	pepper bush	2700
12	1200	"	"	2710
	57	11	"	4,45
	1300	"	ground hells	2710
	15	"	"	2715
				30300
	Running on			
	1573	to road - fair		
	1600	edge of tamarack swamp	2735	
	1700			
		less canopy 19753	2735	
		stuck here at 12075	2740	
15		paces E of Bench mark		
		Bench Mark	564.60	
		Aneoid 135 1205	2750	

	Going South on W 1/2 126			
	13512m	Bench Mark	579.98	
	run on 530' E	Aneoid 135	2785	
		Hardwood good shelter		
180		to road - fair		
200	running on	vanalav	4,45	2771
200	a little	stuttering hemlock		2275
300	longly	burnt ground		
400				2730
500	crests	2 rows wide	flared	2710
700	in creek bed			2700
900	"	"	"	
	500 yards	clab of open meadow	in both	
				2705
		Barometer evidently cannot be relied on for		
		57 ft. difference		
1000	mixed	timber	2:15 PM	2715
1100				2740
1200	path	burnt - ground		2710
1300	"	maple	burnt	2730
1400				2760
1500	came	W 15 paces	stuck	at N 15 line

(597) 530

(597) 530

(585) 525

(577) 515

(575) 525

(585) 540

(570) 530

(580) 545

(590) 555

(595) 565

(530) 525

(530) 530

(535) 515

(510) 495

(500) 490

(500) 490

(525) 575

(570) 570

580 380

W 1/8 of 26, 45, 36

going S

Top is South

W 1/8 of 23

Top is South

1600		2733
1700	edge of swamp	2750
1800	margin	
1900	edge of swamp	2755
2000	line at 2028 at lake	
2100	followed closed line part way.	3 PM
2200		2715
2300	late road - old one	
2400	hardwood ^{forest} maple	2800
2500	" "	2795
2600	" "	2785
2700	" "	2775
2800	edge of swamp cedar, alder	
2900	tamarack	
3000	in swamp 4.08 PM	2790
3100	edge swamp - softwood	2800
3200	softwood	
3300	very good maple	2800
3400	edge of wood - part of	2795
3500	" "	2800
3600	" "	2800
3700	" "	2800
3800	" "	2800
3900	" "	2800
4000	Struck ground 200 ft. away.	
4100	20 paces W of bench mark	
4200	Bench mark 530.87	
4300	5.15 PM ground 118	2800

