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Township 47 north, ranges 32, 33, 34, and 35 west, specimens 31601-31633. No. 259 [1891]

Mathews, E. B.

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

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59

259

LAKE SUPERIOR SURVEY

Mathews

Ind. 1

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.







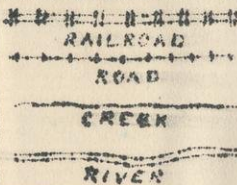
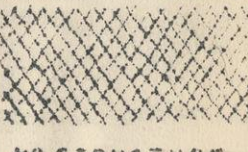

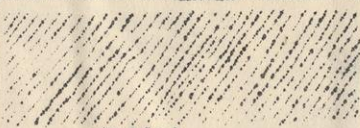

It will be the constant business of the geologist to search for outcrops. All hills within a reasonable distance of the course of travel will be examined. Oftentimes upon the steeper slopes of a hill a rock surface is covered with a coating a few inches thick of moss, leaves or vegetable mold and can 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 $3 \times 4 \times 1$ inch. In case several specimens of the same ledge are necessary, and when ledges are numerous, specimens $2 \times 2\frac{1}{2} \times \frac{3}{4}$ inch will be allowed. In all cases collect chips for slicing. No two specimens will be given the same number. In the cases in which several specimens come from the same ledge, the different numbers assigned to them will enable an easy description of their relations. Specimens will be placed at once in paper bags provided, upon which shall be marked in at least two places, with a blue or red pencil, the specimen number.

TOPOGRAPHICAL SIGNS.

 <p>PINE OR HEMLOCK</p>	 <p>HARDWOOD</p>	 <p>PINE OR HEMLOCK AND HARDWOOD</p>	 <p>CEDAR SWAMP</p>
 <p>SPRUCE OR TAMARACK SWAMP</p>	 <p>MARSH</p>	 <p>RAILROAD ROAD CREEK RIVER</p>	 <p>NO STRUCTURE</p>
 <p>↓ 55° S. NEARLY MASSIVE</p>	 <p>45.35° E. 35.42° E. SHALY OR BEDDED</p>	 <p>75° 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

Notebook # 7.

E. B. Mathews, Topographer.

J. H. McDonald, Comptroller

SPECIMENS 1601-1633

TOWNS: 47-32
47-33
47-34
47-35

2

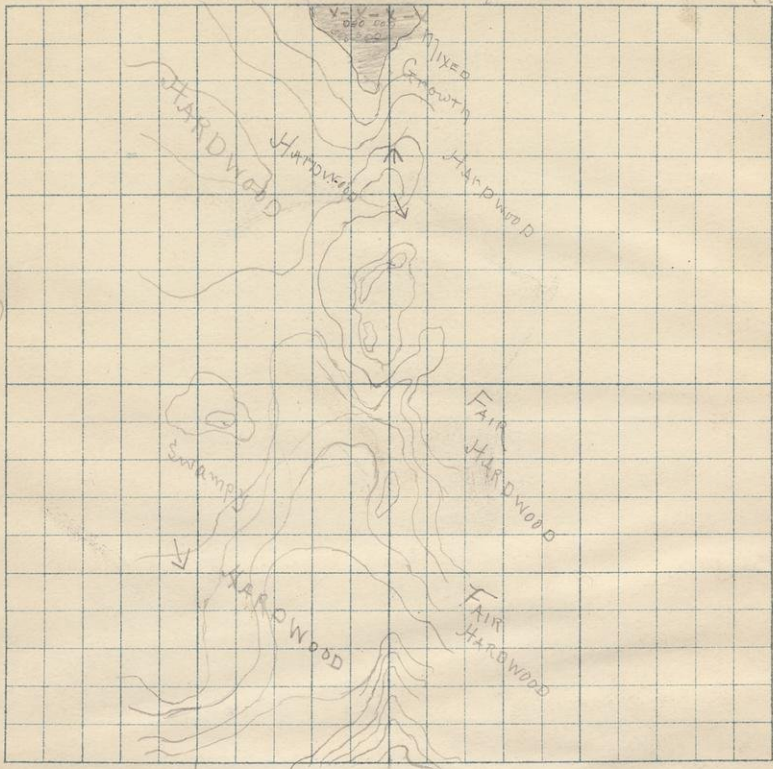
854.48 Bul,
(860)

S. 13 T. 47 R. 32

Bul 857.88
(840)

(860)
(870)
(860)
(870)
(860)
(860)
(850)
(870)
(850)

(850)
(880)
(890)
(870)
(890)
(860)
(850)
845
(840)
(880)



↑
e. light.
↓
Swamp here

Sept 12, Bright.

Running south on east range line of
47-32 sections 13 + 24.

B.M. 837, 38 Amuroid (840) $\sqrt{40}$ s S. $\sqrt{2}$
Zamarack + alder swamp.

200s (850) 400s (880) Hardwood 500s (890)

600s (870) 690s (890) $\sqrt{50}$ E 1000s (860) $\sqrt{50}$ E 9.10

1200s (850) 1400s (845) $\sqrt{50}$ 30'E

1600s (830) 1800s (800) $\sqrt{50}$ E

2020s (780) stand intermediate section line

19 E of corner.

9.45

The hardwood on this ridge of swell account

Running north on east eighth of 13
(870) $\sqrt{50}$ E fair hardwood.

1.20

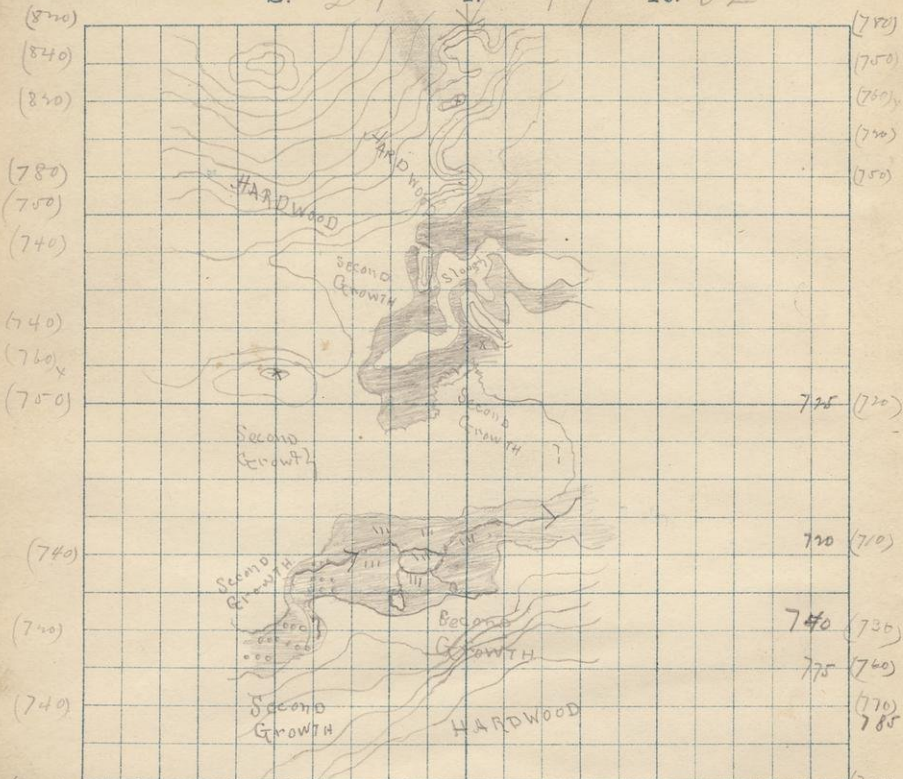
1000x (870) Assort of hardwood

2.10

1973 N stand benchline 40 W of 1/8 stake 2.40

4

S. 24 T. 47 R. 32



(770)
767.94 BM

(770)
BM 786.74

↑
E right

↓
E section line

Running south on east section line of 24
(47-32) (780) $\sqrt{50}$

1000 (750) swampy growth.

4000 (the contours are a little too far apart) (750)

6450 (710) edge of slough, 10000 (700) $10 \frac{40}{10}$

13135 (710) 15375 $\sqrt{50}$ E.

17000 (760) Hardwood (C)

19875 (770) storch section line $\sqrt{30}$ E of corner 11.20

B.M. 786.24 Ameroid (770)

Running north on east right of 24.

B.M. 767.94 Ameroid (770) $\sqrt{50}$ 11.20

10000 (750) $\sqrt{50}$ 12.40

20292 (830) storch intermediate line all/pasture

The hardwood is only of a fair quality + size 12.20

6

775.85 Bu
(780)

S.

14

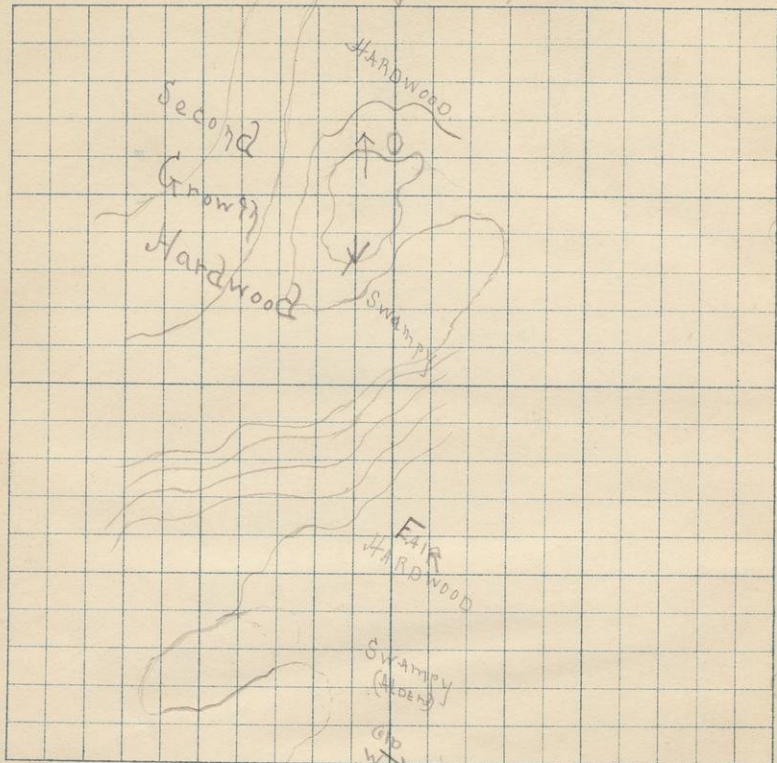
T.

47

R.

32

Bu 797.85
(800)



Quarter line

Sept 14. Overcast,

7

Running south on quarterline of 14 (42.32)

Bull. 797 85 Aneroid (800) $\sqrt{4}^{\circ}E$ 6.40

Fair thick hardwood.

2000 (800) 4000 (870) 5000 (820) $\sqrt{4}^{\circ}E$

6000 (810) 8000 (800) a sort of swampy growth.

10000 (820)

7.30

13000 (850) small second growth maple.

14000 (850) Fair thick hardwood, 16000 (850)

18000 (850) swampy with alders.

21950 struck intermediate line 114 E of 1/4 stake

there must be some bad variations or else

the line was wrong.

8.40

8

S.

23

T.

47

R.

32

(240)

(250)

(250)

(260)

(270)

(270)

(250)

(230)

(230)

215
(250)

225
(270)

250
(290)

255
(900)

275
(920)

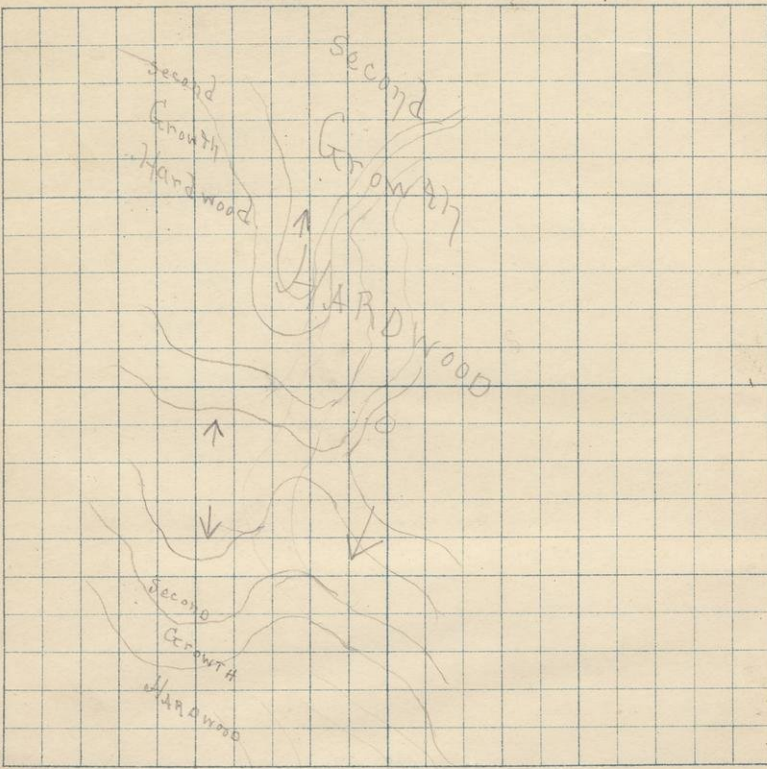
250
(910)

250
(900)

230
(880)

(270)

Acc. 827.06



378.57 Acc.

Running south on quarter line of S.B. (47-32)
 There seems to be considerable trouble
 all along this line on account of
 water from float some of which occurs
 on the surface. We cannot get
 variations but are running on $V_{0.2}$
 according to the map. Second ground bench
 10005 (900) 9.30

11005 (920)

12295 Found a test pit about 15-20 feet deep into
 the drift. No ledge was struck. A very old test pit
 19755 struck bench line 148 \pm of $\frac{1}{2}$ inch
 Bull 827.06 Aneroid (875) 10.15

Running north on west eighth of S.B.
 Bull 828.57 Aneroid (830) 10.30
 Rainy since nine o'clock.

S.

15

T.

47

R. 32

B.M. 7449

(745)

B.M. 715.?

Bench
line
(730)

(730)

(760)

(770)

(790)

(800)

(800)

(800)

751.50m

(750)

(760)

(760)

(770)

(770)

(780)

(780)

(770)

(780)

VXX
XXX
XXX
XXX
XXX
XXX
XXX

Second
Growth
Hardwood

XXX

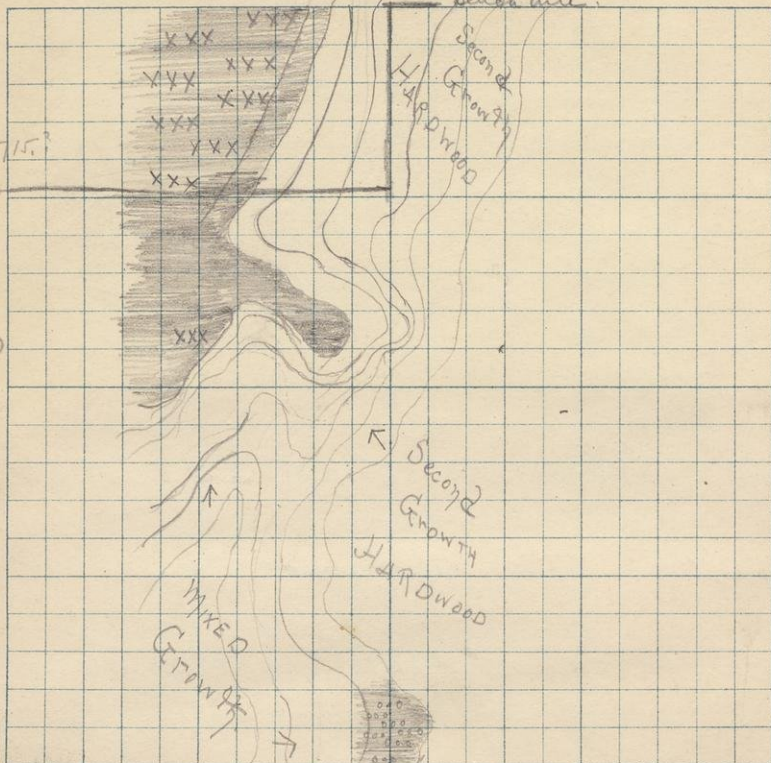
Second
Growth
Hardwood

MIXED
GROWTH

0.0
0.0
0.0
0.0
0.0
0.0

v eight

Section line of 15.



Sept 17. Bright.

11

Running south on east section line of
(47-37)

BULL. 746.09 Ameroid (745) Hardwood and growth

4728 line so far on a fog in the bench
line. ("No bearing seen for nine miles")

BULL. at benchline $\frac{1}{4}$ mile south of section
line 451.52. Ameroid (750) 8.10

10005. (770) small and growth Hardwood 8.30

50738 (780) struck intermediate line 10 W of corner. 9.00

Running north on east eight of 15.

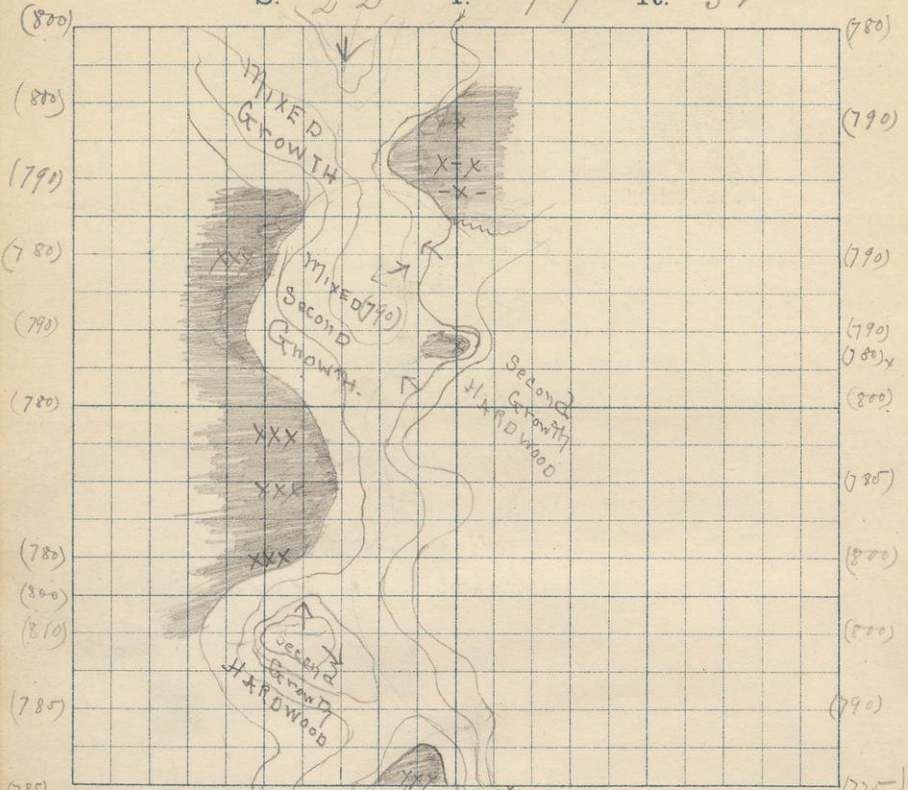
(800) 1408 Mixed small hardwood + soft.

10802 (730) swamp. thick.

15302 struck benchline 65 W of $\frac{1}{2}$ stake

BULL. 715? ^(not present) Ameroid (730) 1.45

S. 22 T. 47 R. 32



785.04 Am.

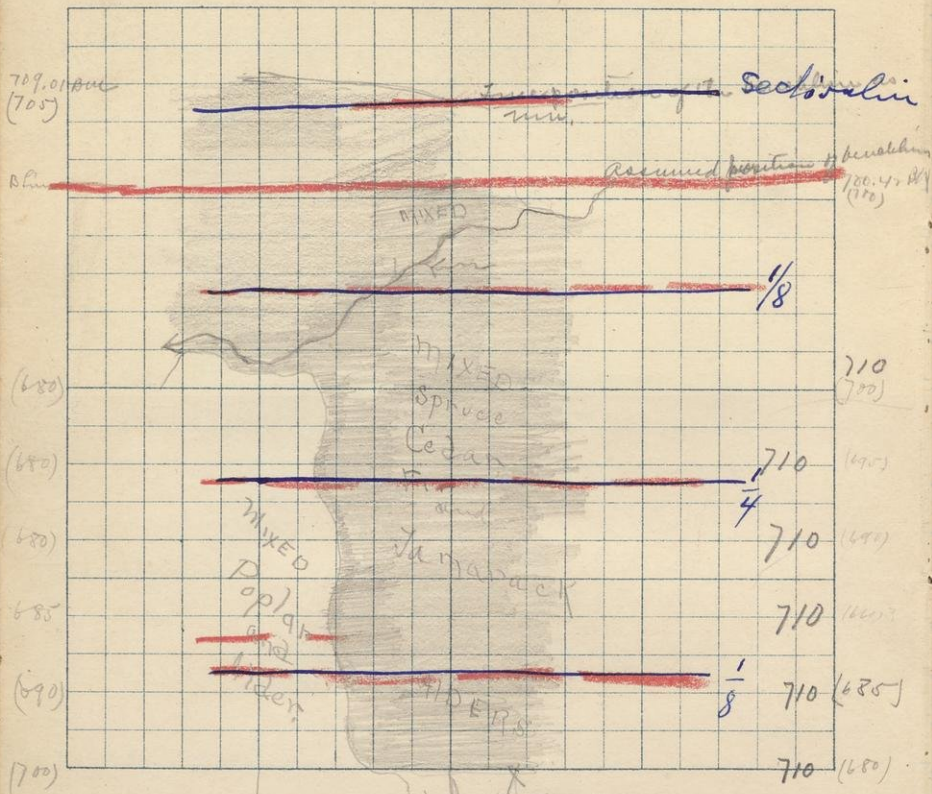
Bm 809.78 around (810)

E right

E section line

Running south on east section
 line of 22, (47-32) (800) $\sqrt{5.0}$ 9.05
 200s (790) spruce swamp.
 1000s (800) small med growth hardwood $\sqrt{5.0}$ 9.40
 2009s (775) " " " $\sqrt{6.0}$
 struck bench line 127 w of corner 10.15
 BUL. 809.28 Aneroid (875)

Running north on east eighth 22.
 BUL. 785.04 Aneroid (785) $\sqrt{5.0}$ E 10.30
 600 n (780) $\sqrt{5.0}$ Cedar swamp. 1000 n $\sqrt{5.0}$ 11.15
 1600 n (790) mixed small growth.
 2030 n (800) struck intermediate line 12.30



Weights
 This line is where it
 ought to be.
 The most probably island
 all the numerous points
 faces + east 100-150 ft

140
 1170
 477
 1210
 200
 400
 1170
 1270
 1570
 1600
 1710
 1770

Sept. 18th Bright.

15

Remaining south on quarterline of 16.

B.M. 704.42 Aneroid (700) $\sqrt{0.20}$ 7.20

Bearer swamp.

The benchline is about 470 s of section line,

1000 s. (700) $\sqrt{4.0}$ Spruce + balsam swamp. 7.45

2170 s (680) stunted intermediate line 148 s of quarter stake. I think the stakes on our

bench line are placed 100 s of where they ought to be. The work we do from this

bench line cannot but be poor + inaccurate. 9.00

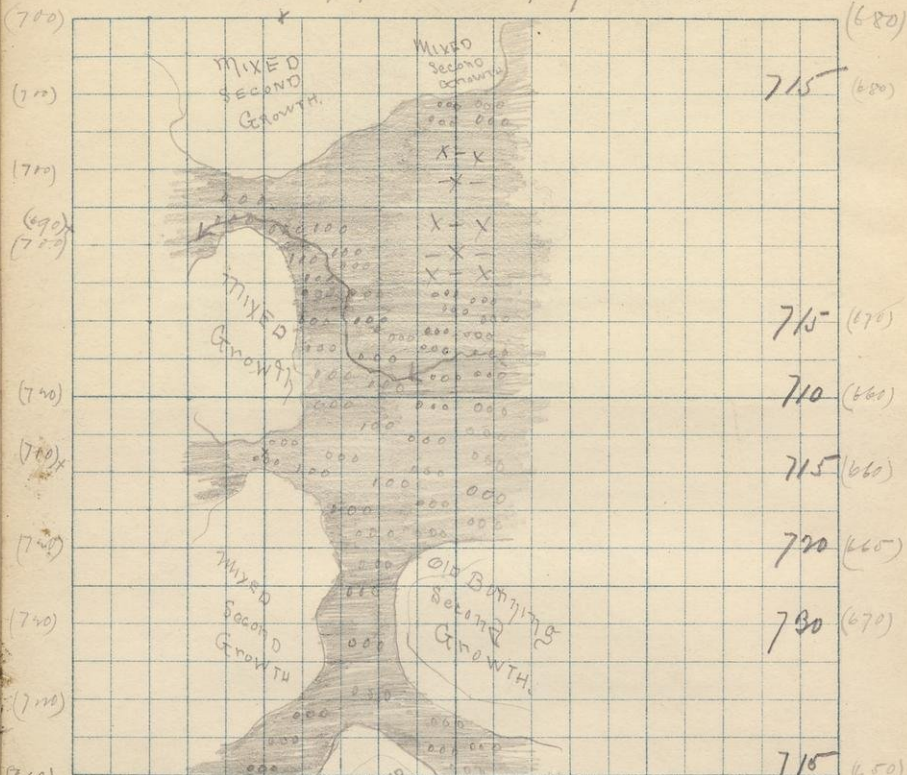
Running north on west edge of 16 12.30

1000 s (680) alder + poplar mixed, not a swamp. 1.25

1000 n creek.

1806 x (700) stunted bench line 118 W of 1/8 stake

B.M. 709.01 Aneroid (705) 2.15



weight

quarter line.

Running south on quarterline of 21
 (680) S.S.E. Mixed second growth 9.00
 alder + spruce swamp almost all the way
 from 700s - 1400s with a creek at 900s.
 1000s. 9.45

1990s struck south benchline 110. W of 1/4 stake.
 BM 715.65 Aneroid (650) 10.30

My compassman has heretofore done good work +
 I believe he is doing it now, there must be some
 trouble with the stakes.

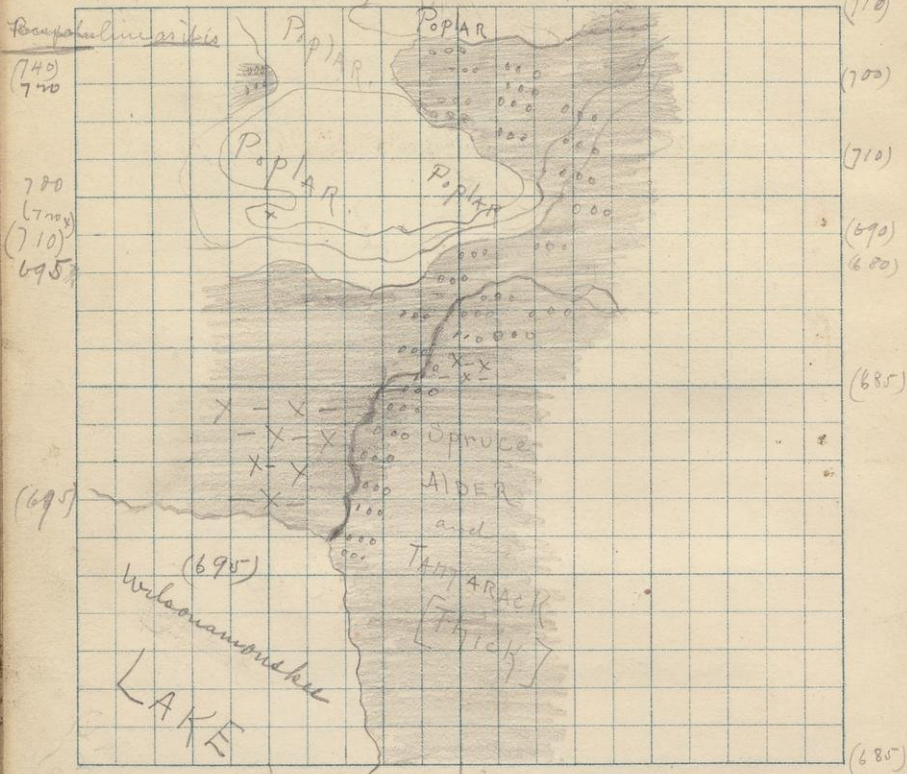
Running north on west eighth of 21
 BM 711.34 Aneroid (710) 10.35

1000 W (715) mixed second growth 11.15

700 + 2 (700) struck intermediate line 500 of 1/2 11.30

RM 719.49

S. 17 T. 47 R. 32 (RM 710.75)



e eight

e section line

This line should be moved south 100 paces + east 100 paces to have it where it ought to be

The line runs a quarter the true position than if were plotted according to our close

Sept 19 cloudy.

19

Running south on east section line

of 17 467-32

B.M. 710.75 Aneroid (710) $\sqrt{4030^{\circ}E}$ 7.10

Poplar growth, 905 (700) alder swamp.

7755 Creek (680)

1000 s (685) Tamarack swamp $\sqrt{40^{\circ}E}$ 7.55

1900 s (685) struck intermediate line 8.45

1

Running north on east upstate of 17,

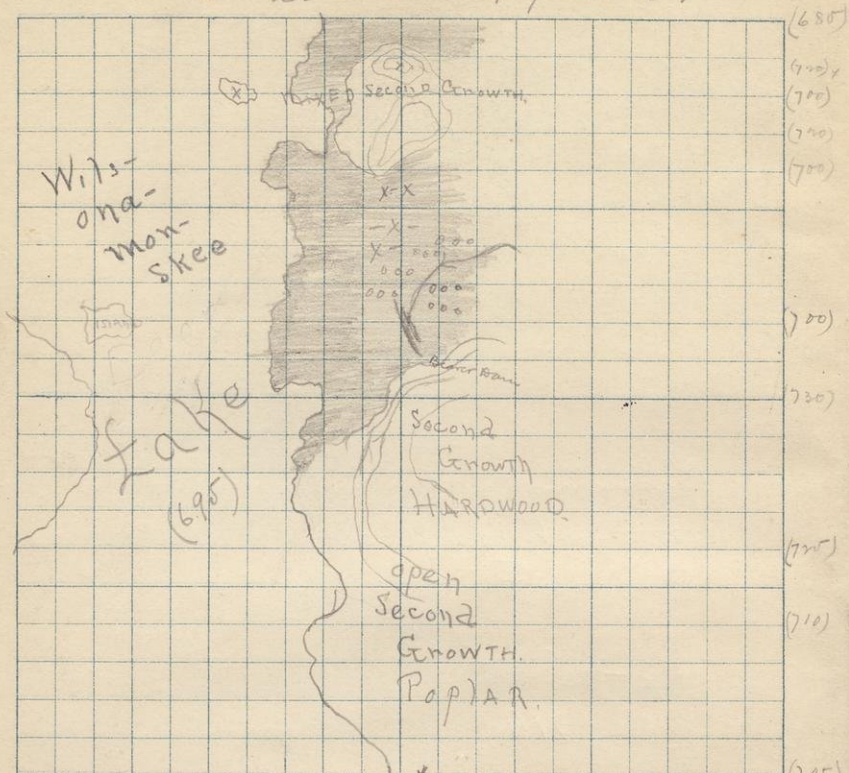
starting at 666 N Aneroid set at 695

$\sqrt{30^{\circ}E}$ 12.15 Spruce swamp

1895 N struck bench line 90 W of 1/2

B.M. 719.48 Aneroid (740) 1.15

It



ACM 703.07

section line

Running south on east section
line of No 47-32

(685) $\sqrt{4^{\circ}30' E}$ Alder tamarack + spruce
swamps. 8.50

800s. (700) side of creek stopped by beaver dam
no open connection with the lake

1000s (720) 2nd growth hardwood. $\sqrt{4^{\circ} E}$ 9.30

1987s (710) struck benchline 43 E of Gomer

B.M. 703.07; Aneroid (705) 10.05

Line north in lake,

- x The island or shoal marked (x) may
have been an outcrop it looked like
one of that which we have been
calling "greenstone" The platy
of this island it must exaggerate
the original not being over 15-20 feet.

697.77 B.M.
(660) 697

S. 18 T. 47
700' 500' 1600'

R. 32 B.M. 7 + 1185
(710)

(675)

700

(700)

(690)

715

(700)

(690)

710

(690)

(680)

700

(710)

(685)

710

(700)

(690)

705

(690)

(680)

695

(675)

(680)

695

(675)

(670)

685

(675)

(680)

690

(700)

(690)

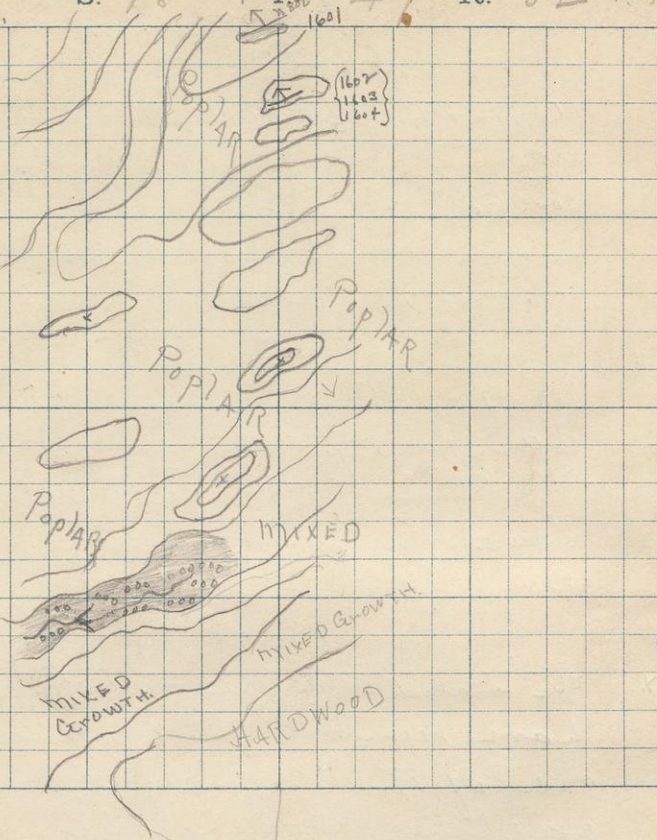
700

(700)

(700)

710

(715)



Quarter-line.

Sept 20 Bright.

23

Running south on quarterline of 18.
Bull. 7 x 1.5-8 aneroid (720) 7⁴⁵

Poplar with the whole surface covered with boulders.
1000 x (680) Poplar + many boulders. 8⁴⁵

1975 x (715) struck intermediate line 85 E
of 1/4 stake $\sqrt{40-50}^{\circ}$ E all the way. 9³⁰

Running north on west side of 18. 47-32
(700) $\sqrt{30}^{\circ}$ Hardwood. 1⁵⁰

420 x (670) creek flowing SW.
1000 x (685) $\sqrt{30-30}^{\circ}$ E poplar growth 1⁵⁰
1360 x $\sqrt{70}^{\circ}$ E.

2020 x (665) struck benchline SW of 1/8 stake.
Bull. 697.77. Aneroid (665) 7³⁰

1601 On bench line at quarter stake. Dip 72° N
Strike $\sqrt{80}^{\circ}$ E

1602 1750 x 1000 WSE cor 18, strike + dip same as

1603 above. 1602 I believe to be a weathered
portion of 1603. Others in the party do not.

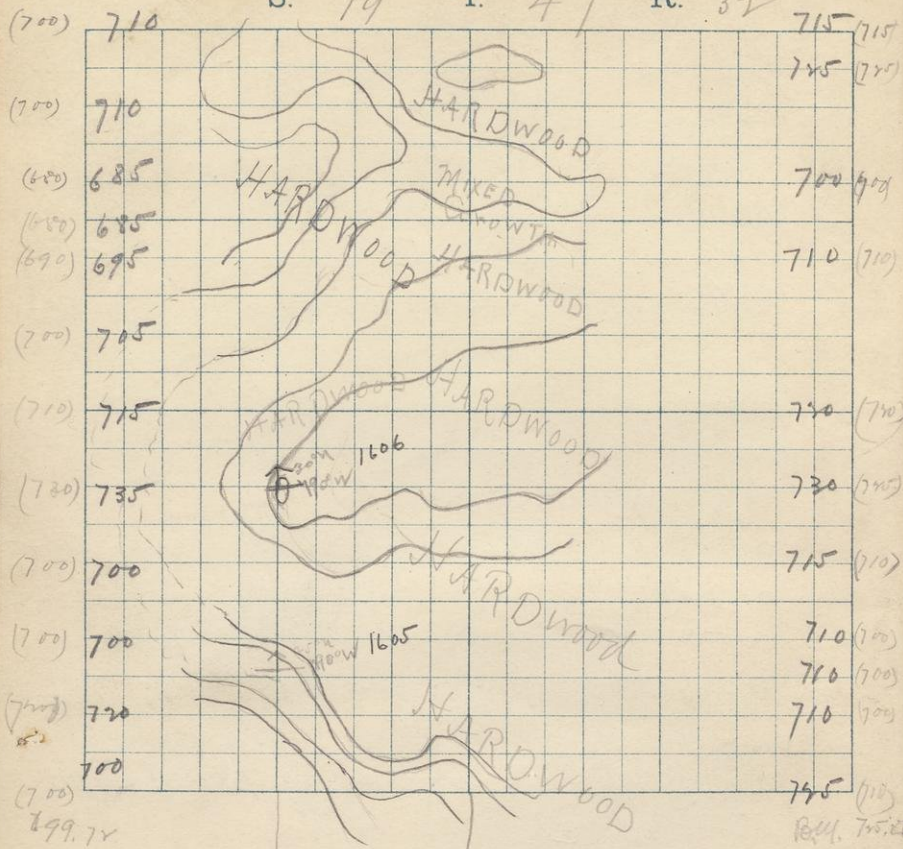
Dip 82° N. If find 1602 along the strike of 1603.

1604. Found some twenty feet south of 1603 +
extending into the ledge 5 inches or more.

The north half of section 18 is thickly
strewn with boulders.

Am doubtful concerning true bedding.

S. 19 T. 47 R. 32



weight

quartzite

no interpolation on the
 aneroid for contour
 seemed to be flat +
 the aneroid mistleby
 the aneroid without
 change closed corner by
 on the B.M. at the
 weight

Running south on quarterline of 19.
 Hardwood, $\sqrt{4^{\circ}30' E}$ 1
 100s (725) 400s (700) 600s (710)
 1000s (750) $\sqrt{4^{\circ} E}$ Hardwood, fair 10.55
 1200s (725) 1400s (710)

1994s. struck the south fence line 85
 E of a stake marked "about the 1/4 stake"
 B.M. 725.86 Anroid (710) 10.40

Running north on west eighth of 19.
 B.M. 689.72 Anroid (700) 10.50
 (stakes only 475 faces apart). $\sqrt{5^{\circ} E}$

2000 (720)
 1000 N (710) Hardwood good. 12.00
 1600 (680) $\sqrt{2^{\circ}30' E}$.

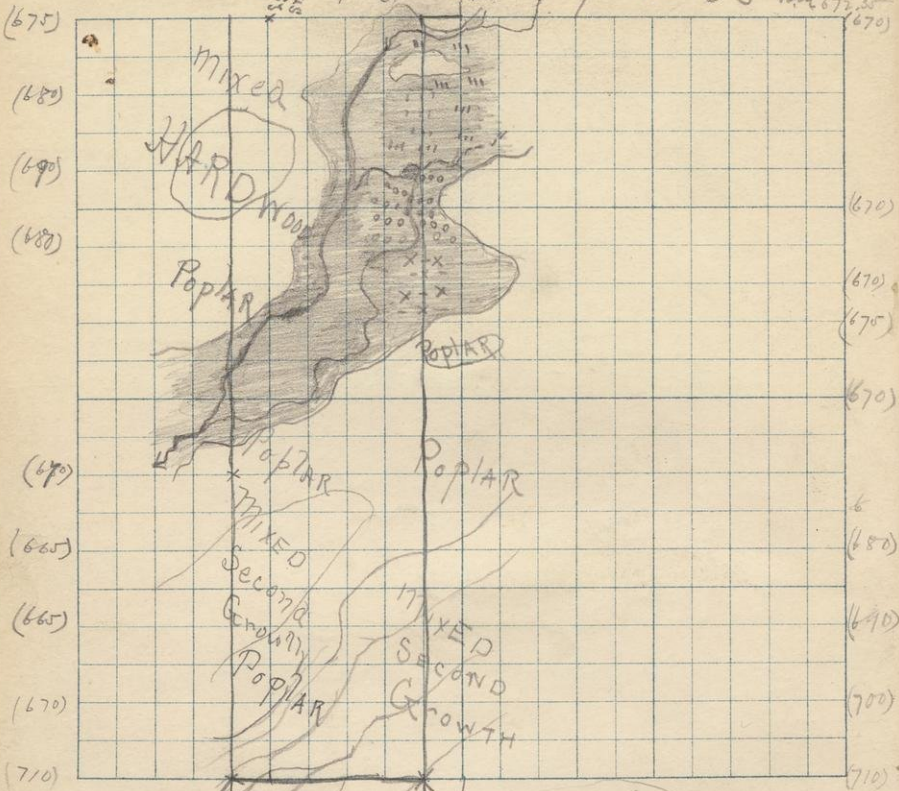
2009 (700) struck the intermediate line 18 E of
 1/2 stake. 12.40

1605 310x 1500 WSE over sec 19. Low edge of schist
 strike $290^{\circ} W$ dip not determined

1606 785 x 1500 W high outcrop of schist strike
 85 W dip from 30° - 70° N generally about 30° .

I am not sure that I found a true
 bedding in the outcrops found.

S. 35 STAKE 1/3 T. 47 R. 33 B.M. 677.25 (670)



line traced (according to the
 S.S. stakes)
 Probably the true section line.

last section line

east eighth (500w of sec corner)

Sept. 21 Bright.

27

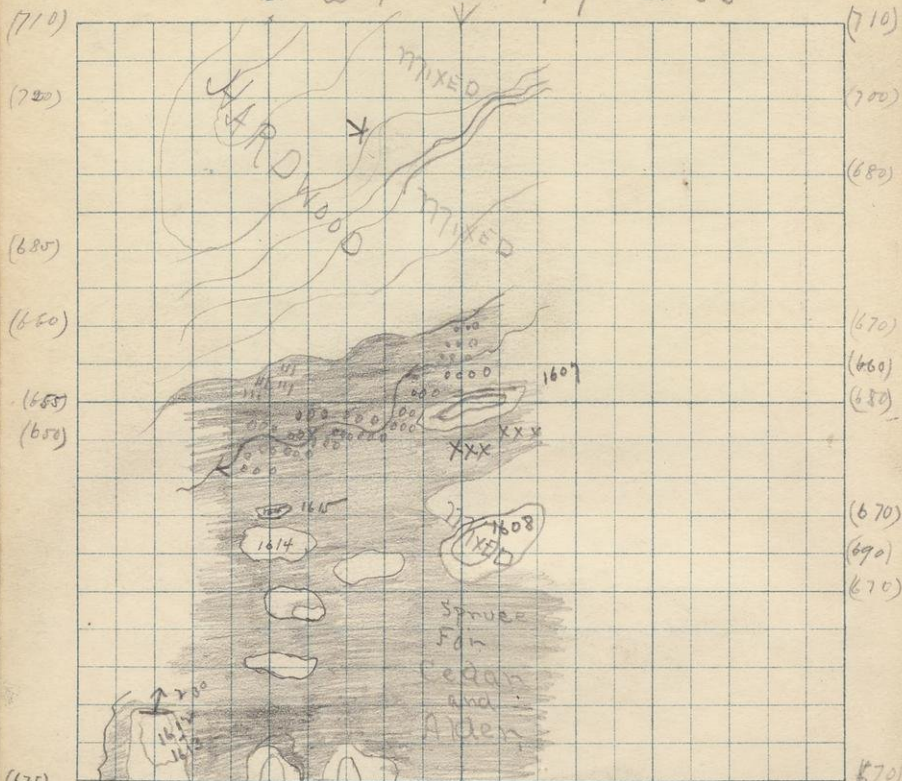
Running south on east section line of 13
47-33.

B.M. 677. 35 Aneroid (670) $\sqrt{3^{\circ}30'}$ 7. 10
set off 100 paces ^W to get somewhere near the
tree corner 35's stumck creek flowing ^WSW (670)
all altitudes apply to ^W & S line 100 w of $\frac{1}{4}$ line of plot.
1000 s (670) $\sqrt{3^{\circ}30'}$ E Poplar + alder 8. 00
1300 s $\sqrt{40}$ E

1962's stumck intermediate line at corner 8. 30
If we had started from North L.S.S. stake we
would have been 100 paces to far east.

Running north on east eighth of 13 (47-33)
Hardwood $\sqrt{2^{\circ}30'}$ E (710) 9. 50

1950's (675) mixed growth.
Blue, Aneroid 4. 00
we struck the line 100 w of $\frac{1}{4}$ stake



(675) 675.58

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last section line

676.76

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Running south on east section line
of 24 47-33. (710) $\sqrt{4030^{\circ}E}$ 8.40
mixed second growth.

1000s on north side of abrupt rise of 20 feet.

1998S(670) stunch benchline at corner 10.30

Running north on east eighth of 24 (47-33)
Bull. 675.58 Amroid (675) $\sqrt{7^{\circ}E}$ 1.00

300x70: 461x75W, 750x70 (variation probably wrong)

1000x (655) alder swamp. 2.50

2060x (740) stunch horizontal line

140 E of stake (wrong time used owing
to breakage of watch 3.50

1607 1000x SE cor 24 (47-33) large outcrop of schist
no dip nor strike obtainable

1608. 650x SE cor 24 (47-33) outcrop of quartzite

1609. 300 W SE cor 24 (47-33) outcrop on benchline
no true bedding evident.

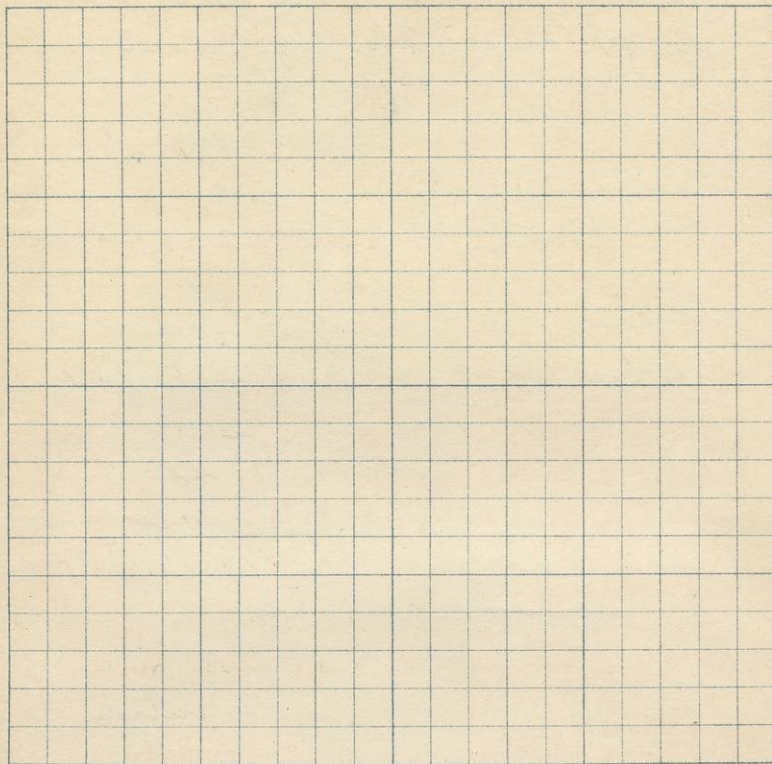
1610 478 W SE cor 24 (47-33) dip. $23^{\circ}N$ strike $190^{\circ}W$

1611 At this ledge there appears to be
true bedding in which 1610 lies
below 1611. The line of demarcation
between these two beds is not

S.

T.

R.

16
16

16

161

straight and regular but according to the differences in the weathering of the two would appear to be others.



This sketch would be in the direction of the dip across the strike.

- 1612 800 W S E cor 74 (47-33) large outcrop
 1613 in which a bed of 1612 seems to underlie a bed of 1613. Dip + strike the same as at 1610 & 1611
- 1614 650 N 500 W S E cor 74 (47-33) massive low but fairly extensive outcrop.
1615. 700 N 500 W S E cor 74 (47-33) massive abrupt outcrop of medium size.

32

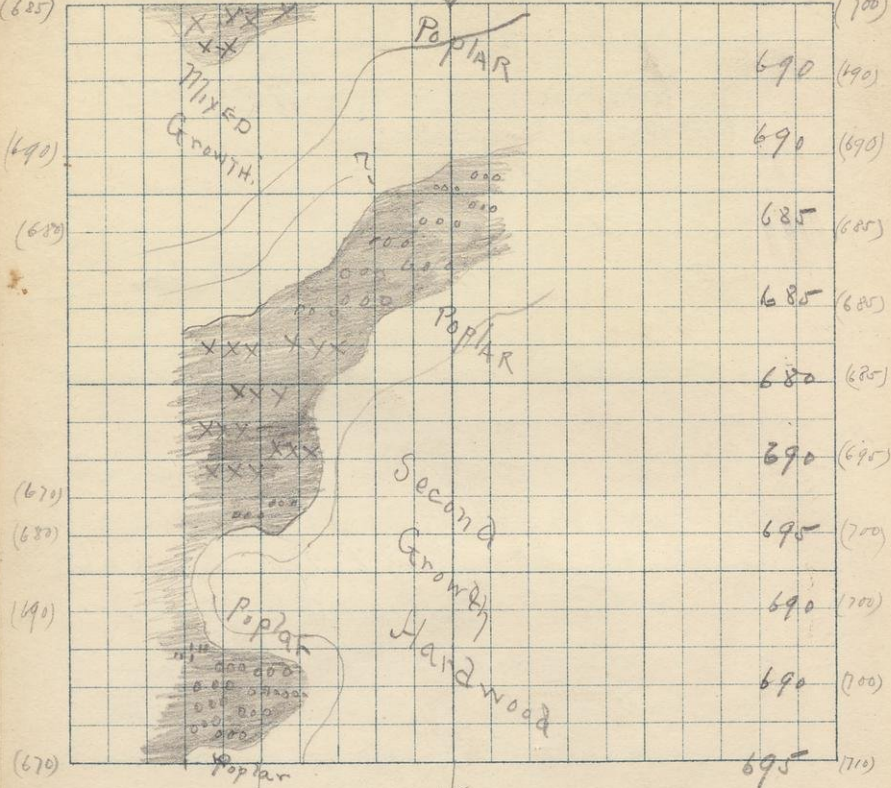
S. 14

T. 47

R. 33

Bul. 702.54
(700)

689.04 Bul.
(685)



quarterline

weights

Sept 22, Bright,

33

Running south on quarterline
sec 14 (47-33) $\sqrt{30}^{\circ}$ E Poplar growth 67.50
B.M. 707.54 Anceid (700)
10005 (685) poplar $\sqrt{4}^{\circ}$ E 8.25
20005 (710) no line found so continued 9.00

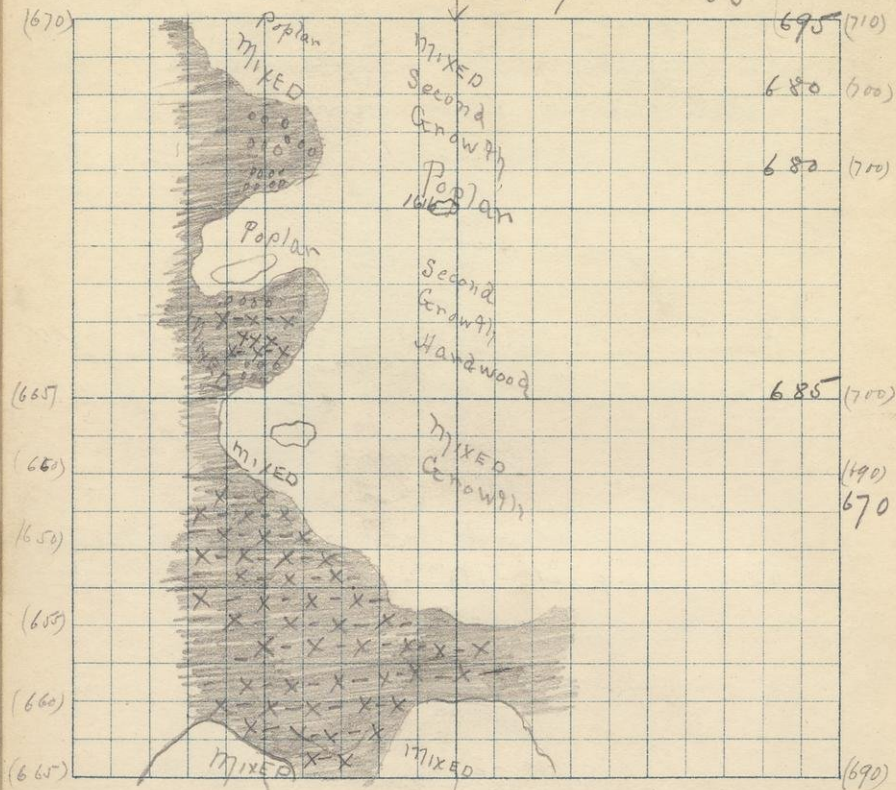
Running north on west-eight of 14
(670) $\sqrt{30}^{\circ} 20'$ E poplar 1.00

19702 (685) struck benchline 35° E $1/8$ slate
B.M. 689.04 Anceid (685) 2.00

S. 28

T. 47

R. 33



664.93 13m.

13m. 668.31

weight

quarterline

Running south on quarterline of 23
 (47-33) $\sqrt{4}^{\circ}\text{E}$ (710) mixed second
 growth (chiefly hardwood) 9.50
 1000s (700) $\sqrt{3}^{\circ}30'\text{E}$ mixed second growth 9.40

1962^s struck south benchline 16 $\frac{5}{8}$
 of $\frac{1}{4}$ stake,
 Bull. 668.31 Anroid (690) 10.05

Running north on west right of 23 (47-33)
 Bull. 664.93 Anroid (660) $\sqrt{3}^{\circ}\text{E}$ 11.10
 1000n (665) mixed growth 11.40
 2000n (670) poplar $\sqrt{3}^{\circ}30'\text{E}$ no line so
 continued north 13.55

1616 1500n 1000w SE cor 23 ledge of massive
 quartzite.

36

S.

15

T.

47

R.

33

Blk. 690.41

706.78 Blk.

(750)

705

(740)

700

(710)

690

(710)

685

(700)

680

(700)

685

675

(690)

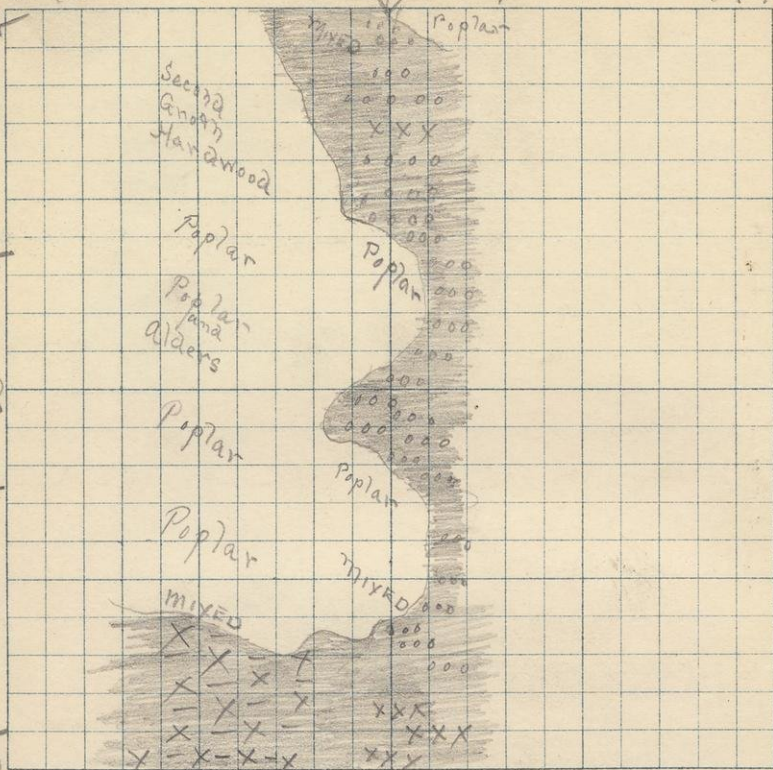
(690)

(690)

680

675

(690)



east section line.

Sept 23. Bright.

37

Running south on east section line
of 15 (47-33)

B.M. 690.41 Aneroid (690) $\sqrt{30}$ 8.40

1000 s alder swamp (685) $\sqrt{30}$ 9.30

2000 s spruce swamp no line
found so continued south 10.30

Running north on east eighth of 15,
(690) $\sqrt{30}$ s spruce swamp. 2.15

1000 n (700) $\sqrt{30}$ Poplar growth 2.55

2073 720 s) struck benchline 45 w of 1/2

B.M. 706.78 Aneroid (750) 2.30

(690)
675

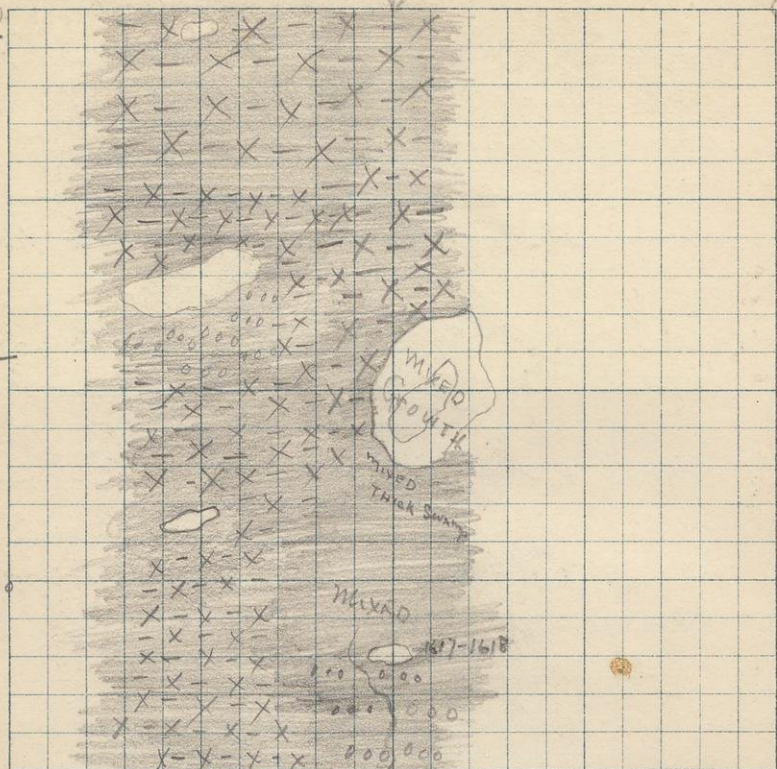
(690)?
675

665
(670)

665
(690)?

660
(660)

(660)
658.54 B.M.



656.
(190)?
658.54

16
1

Running south on east section
 line of 27 (47-33) (690) $\sqrt{3}^{\circ}$ 10.70
 1000 (690) mixed growth 11.15

20073 struck the benchline 23 W of cor. 12.15
 Bill. 656.14 Aurooid (not road purpose)

Running north on east eighth of 22
 (47-33) spruce swamp.
 Bill. 658.52 Aurooid (660) $\sqrt{3}^{\circ}$ E. 1.00
 1000 n (670) spruce swamp $\sqrt{3}^{\circ}$ 2 1.40
 1500 n $\sqrt{3}^{\circ}$ 2 1.55
 2000 n 700 line found so continued. 2.15
 north (690) spruce swamp.

1617 200 n secor 22 ledge of quartzite + slate. Dip
 1618 43° n strike $N 70^{\circ} E$ with cleavage planes
 almost perpendicular.

40

55747 AM
(710)
654

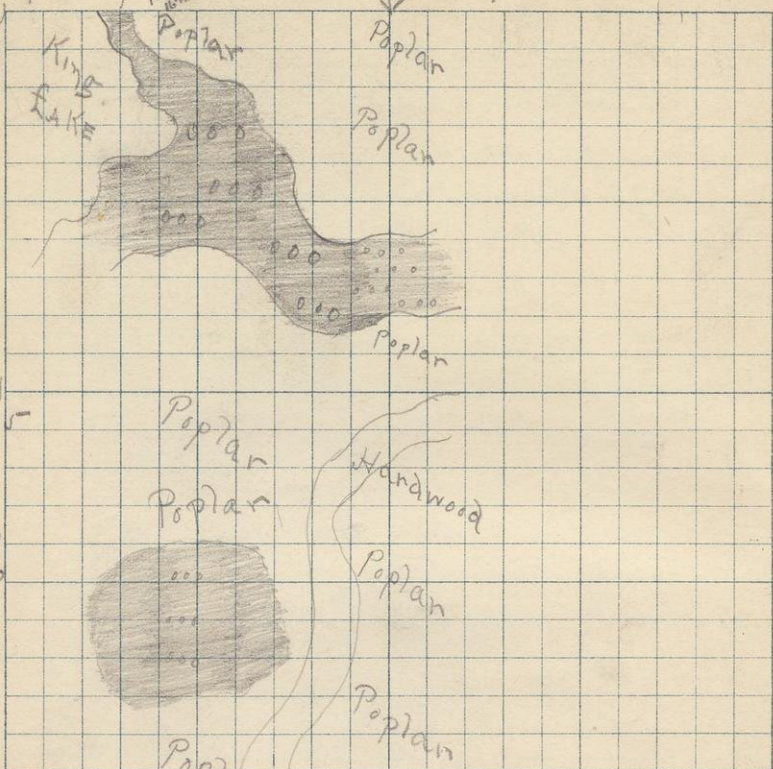
S. 16

T. 47

R. 33

Sec. 67.00

KING
LAKE



quadrangle

16.
16.

Sept 24.

41

Running south on quarter line of 16
Bull. 6570 or Anroid (680) $\sqrt{7^{\circ}E}$ 7.25

Poplar.

2005 (680) Poplar.

10005 (670) Poplar $\sqrt{3^{\circ}30'E}$ 8.10

11505 (690) Hardwood

20005 (690) no line found so continued south
poplar 9.15

Running north on west eighth of 16
(47-33) Anroid (690) $\sqrt{7^{\circ}E}$ poplar 1.40
10002 (710) poplar growth 2.40

20232 (710) struck benchline 13 E of $\frac{1}{2}$ stake
Bull. 657.47 Anroid (710) 3.30

1619 An benchline 1475 W see corner low outcrop of
1620 quartzite. Strike $\sqrt{70^{\circ}E}$ Dip $40^{\circ}(?)$ N.

Running south on quarterline of
 23 (47-33) $\sqrt{3}^{\circ} E$ Ameroid (690) 9. 05
 poplar growth
 5000. Pine slashing (at work now)

1975. stretch benchline at $\frac{1}{4}$ stake 10. 40
 B.M. 694.53 Ameroid (700)

Running north on west eighth of
 23. (47-33) $\sqrt{3}^{\circ} E$. Hardwood.
 B.M. 685.91 Ameroid (685) 12. 20
 1000 n (700) mixed growth 1. 15
 1700 n (700) supply road, poplar.
 2000 n (690) no line found so continued
 north $\sqrt{3}^{\circ}$ Poplar. 1. 40

645.90
(650)

S.

17

T.

47

R.

33

Bill, 6.7.14
(655)

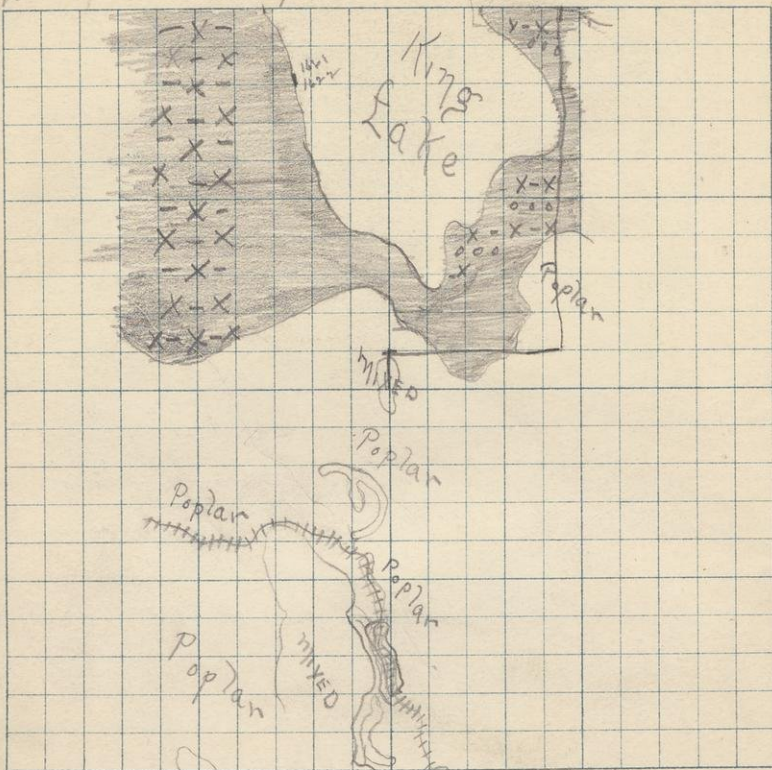
(650)

(670)

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(670)



645
(650)?

640
(650)?

640
(650)?

640
(650)?

166

16

Sept 25. overcast

45

Running south on east section line
of 17. (47 + 33)

Corner in lake. started row of 1/8 7.20

B.M. 657.47. Aneroid (655) $\sqrt{2}^{\circ} E$

900s set west to section line.

1000s (630) on section line, poplar. $\sqrt{2}^{\circ} E$ 8.40

1700s (620) supply road (on ridge) $\sqrt{2}^{\circ} 30' E$ 9.10

2000s (620) no line found so continued south 9.35

Running north on east eighth of 17 (47-33)

Aneroid (670) $\sqrt{2}^{\circ} E$ poplar growth 1.50

1870s (650) entered open tamarack swamp

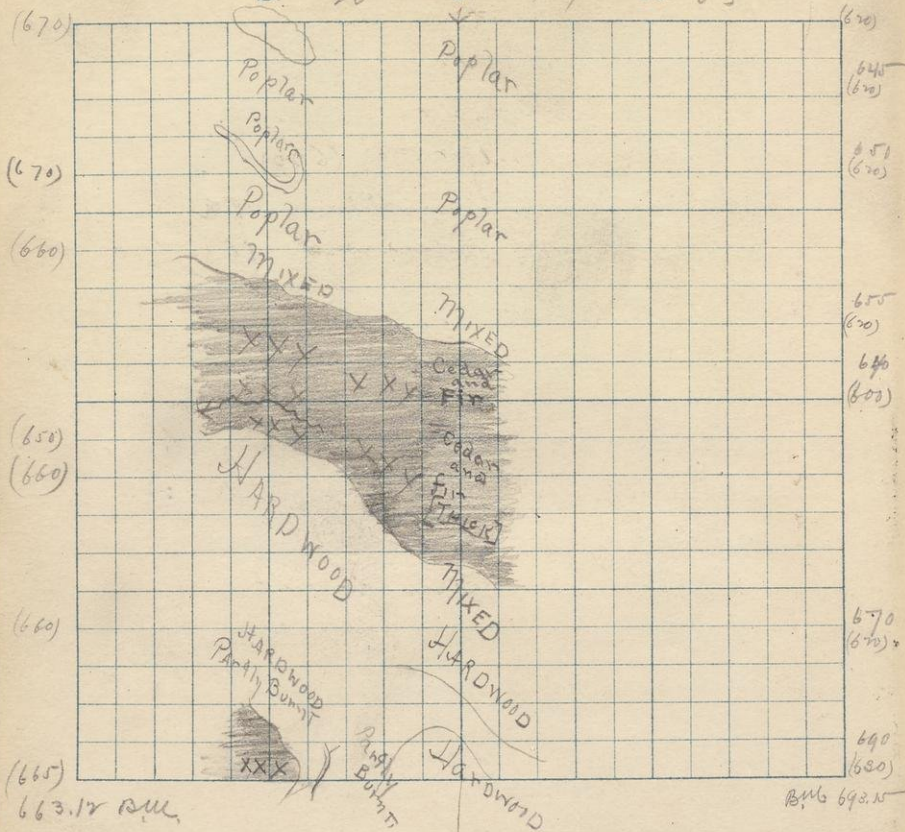
$\sqrt{3}^{\circ} E$ 1.40

2020s struck benchline 40 paces e of 1/2 lake

B.M. 645.90 Aneroid (650) 2.10

1669 Low outcrop on shore of lake roots of benchline

1672 no trace + some dip nor stumps obtained opposite



663.12 RM

RM 692.5

section line

Running south on east section line of 20
 (47-33) $\sqrt{3^{\circ}30'}$ E Anemoid (620) Poplar
 10225 Cedar + fir swamp, (600) $\sqrt{\quad}$ 10.30
 16500 Hardwood, good, (620)
 1993 (630) stink benzoin 19th of course
 Bell. 693.15 Anemoid (630) $\sqrt{3^{\circ}E}$ 11.50

Running north on east eight of 20 (47-33)
 Bell. 663.12 Anemoid (665) $\sqrt{3^{\circ}30'}$ E 11.45
 Cedar swamp, which soon changes to hardwood.
 1000 n (650) Cedar + fir swamp (stink) creek
 probably flowing SW. $\sqrt{3^{\circ}30'}$ 12.10
 2000 n (670) no line found so continued
 north. 1.00

611.53
(670)
610

650 (660)
670 (670)
650 (650)

(650)
595

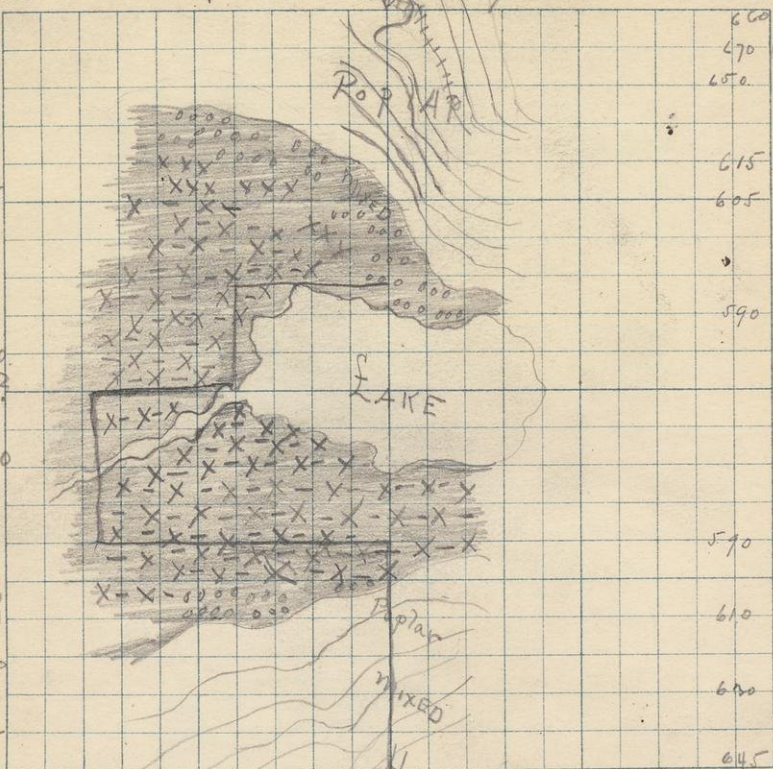
615 (620)
605 (610)

590
(640)
(620)
590

590 (600)

590
(610?)
600
(620)
635
(650)

590 (610)
610 (630)
600 (650)
645 (670)



Wright

Quarter line

Sept. 26

49

Running south on quarter line of
18 (47)-33)

Bill 657.42 Aueroid (660) $\sqrt{3^2} = 3.00$

Poplar

790 s stretch shore of lake (600)

1000 s in lake,

2000 s. (670) Hardwood fair, no time found
so continued south. 10.15

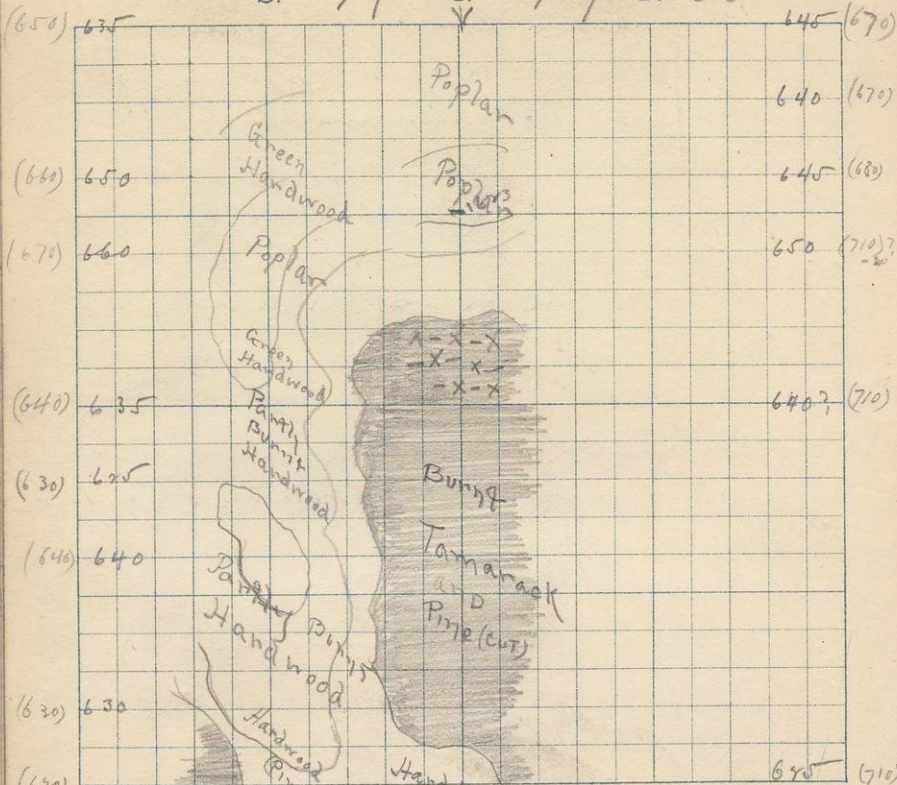
Running north on west edge of
18 (47)-33) Aueroid (600) $\sqrt{3^2} = 1.00$

900 n creek (670)

1000 n (640) ^{Spice} Larivach swamp. 2.00

Bill 64.53 Aueroid (570)

2.45



617.34 224.

Nov. 62 219

Wayland

Quarter line

Running south on quarter line
 of 19 (47-33) Aneroid (670) Hardwood $\sqrt{3}^{\circ}E$.
 1000 s. (710) ? Spruce swamp partly burnt. $11^{\circ}20'$
 2000 s. (710) struck benchline at $1/4$ stake
 B.M. 673.19 Aneroid (710) $11^{\circ}20'$

Running north on west eighth of 19.
 B.M. 617.34 Aneroid (620) $11^{\circ}40'$
 1000 n (640) Partly burnt hardwood with
 all the pine just cut, $\sqrt{5}^{\circ}E$ $12^{\circ}25'$
 2000 n (650) poplar, no line found
 so continued north $12^{\circ}50'$

1673. 1600 n 1000 w sec on 19 low outcrop of gatho ^{diabase?}
 with jointing about N+S + E+W with a dip in the
 latter of about $80^{\circ}N$.

52

176.30 Bull.

S. 13

T. 47

R. 34

Bull. 94

(620)

(620)

(610)

(600)

(600)

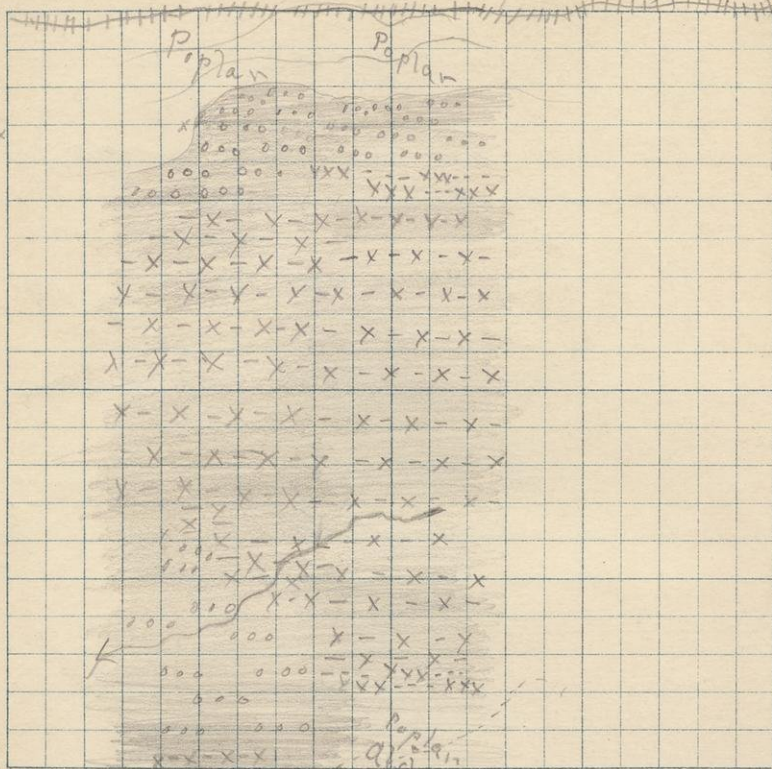
(600)

(600)

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600

(600)



English

C section line

Sept 30 Overcast

53

Running south on east section line
of 13 (47-34) & Range line of 34.

B.M. 628.94 Aneroid (620) $\sqrt{50}^{\circ} 30' E$ 7.20

poplar 2600 s (600) alder swamp
5000 spruce swamp.

13350 creek (600)

20000 s (600) no line found so continued south. 8.15

Running north on east eighth of 13, (47-34).

$\sqrt{50}^{\circ} 30' E$. Aneroid (520+20) spruce swamp 11.50

3500 creek (600)

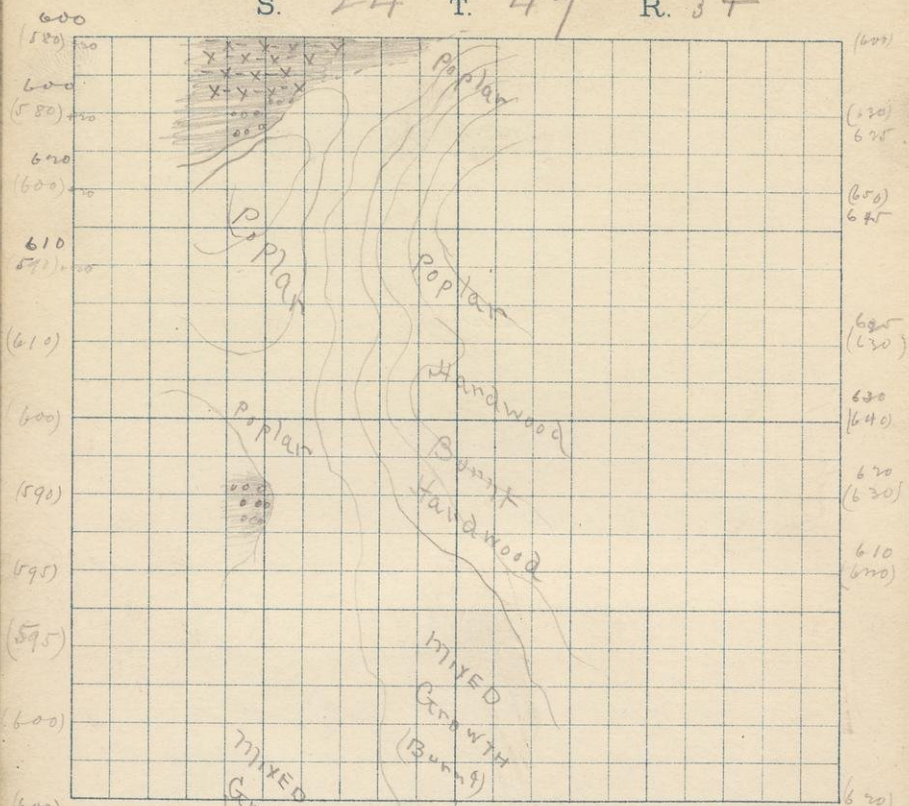
10000 spruce swamp (600) 11.25

1996 N struck benchline 10 W of 1/2 section 11.50

B.M. 626.30 Aneroid (630)

I could not use aneroid it was so
unsteady so ran through with out it
estimating the heights myself & giving
aneroid reading accordingly.

Supply road runs along the
benchline.



MIXED
GROWTH
(Burr)
↑
eigleth

MIXED
GROWTH
(Burr)
↓
section line

603.04 Burr

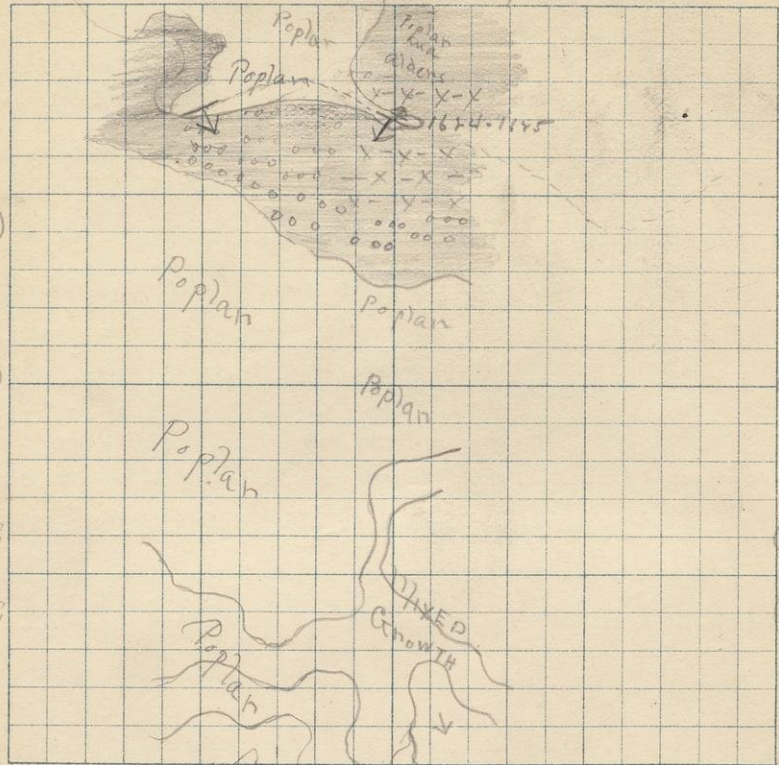
Burr 611.99

Running south on east section line
of 24 (47-34) (orange line)

5000 (630) Aneroid (600) poplar & alder 8.35
8000 (630) fair pine " hardwood.
10000 (640) burnt hardwood. $\sqrt{2}^{\circ}30'E$ 9.15
19888 (620) slash timberline at corner 9.40
B.M. 611.99 Aneroid (600) $\sqrt{2}^{\circ}30'$

Running north on east eighth of 24
(47-34)

B.M. 603.04 Aneroid (600) $\sqrt{3}^{\circ}E$ 10.50
10000 (600) poplar $\sqrt{3}^{\circ}E$ 10.30
20000 (580+20) spruce swamp $\sqrt{2}^{\circ}30'E$ 11.00



Weighted Quarterlines

16.2
16
16.2
16.4

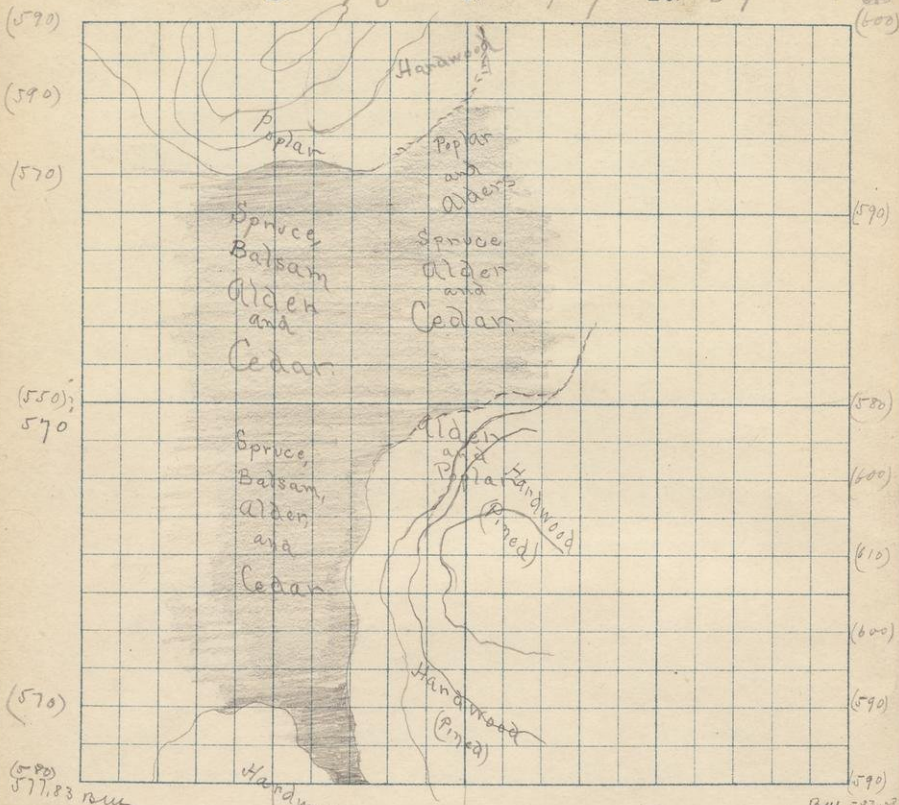
Oct. 1, Corncast.

57

Running south on quarter line of 14,
 Bill 60501 Ameroid (605) $\sqrt{30' E}$ 7.50
 1000s (600) poplar $\sqrt{30' E}$ 8.30
 2005s (600) Hardwood. Struck original
 section line 5 E of old stake + B.T. $\sqrt{30' E}$ 9.10

Running north on west eight of 14. (47-34)
 Poplar $\sqrt{30' E}$ Ameroid (590) 11.25
 1000n (500) Ameroid unreliable, Poplar growth
 $\sqrt{30' E}$ red. 12.00
 2002n struck benchline at $\frac{1}{8}$ stake 12.30

- 1624 1700 x 1000 w sec cor 14 outcrop of shale $N 80' W$
 dip $49' S$.
- 1625 Inclusions found in 1624 without any
 apparent order or arrangement.
- 1626 1730 x 1500 w sec cor 14 outcrop of quartzite and
 badly faulted shale. Strike $N 60' E$ Dip $64' S$
- 1627 1626 a specimen of the shale 1627 of the quartzite
 I think these outcrops to be parts of a
 fold extending as shown on the map



Running south on quarter line of
 23. $\sqrt{3}^{\circ}$ ~~SE~~ Aneroid (600) Hardwood 9.15

500s (590) $\sqrt{3}^{\circ}$ E

1000s (580) $\sqrt{3}^{\circ}$ E alder + poplar then hardwood ahead 9.45

2000s (590) stretch towards line at 1/4 stake 10.05

B.M. 583.78 Aneroid (590) $\sqrt{3}^{\circ}$ E.

Running north on west right of 23

B.M. 577.83 Aneroid (580) $\sqrt{3}^{\circ}$ E Hardwood 10.15

1000 u (550) Thick, Spruce, balsam, alder & cedar swamp 10.45

2000 u (590) no line found so continued north 11.15

60

582.60 Ill.

S. 15 T. 47 R. 34

582.54
(589)

(590)

(610)

(610)

(600)

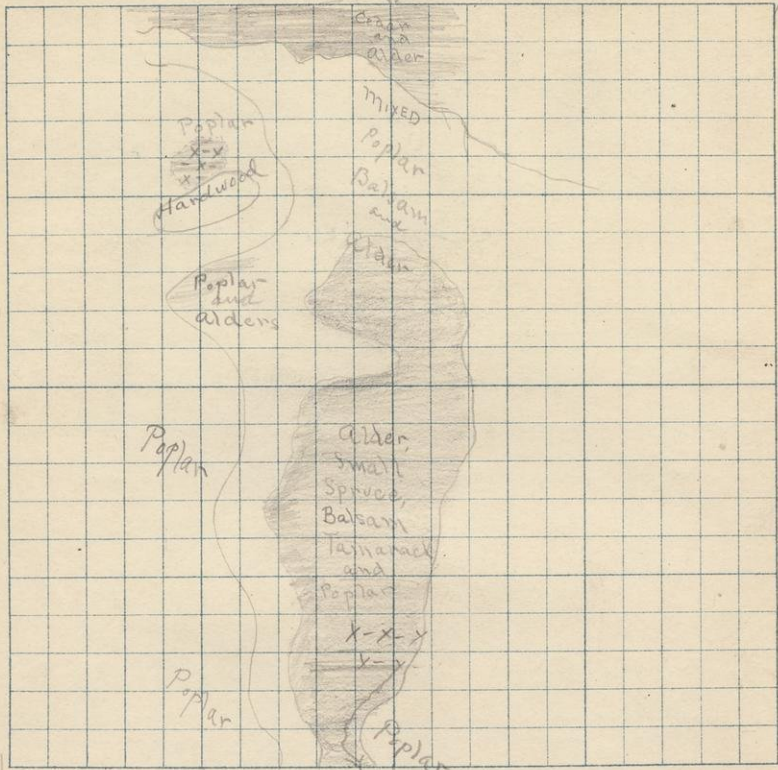
(610)

(595)

(590)

(585)

(590)



Oct. 1st. Cloudy.

61

Running south on east section line
5715 (47-53)

B.M. 582.54 Aneroid (5-80) 14' E 8.10

Thick Cedar + alder swamps.

1000 S (585) mixed poplar, balsam + alder. 8.50

2000 S (590) poplar. ~~Stictium~~ found so

continued south. 9.40

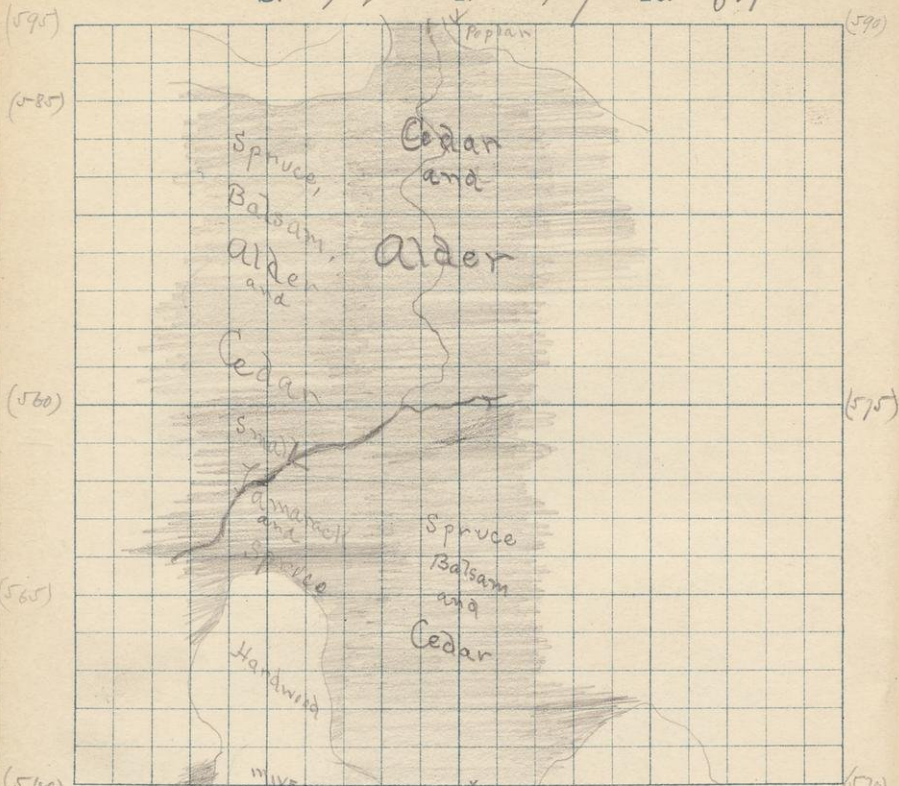
Running north on east eighth of 15

14' E and Aneroid (595) mid growth 14.50

1000 N (610) poplar. 1.30

2018 N (590) struck the benchline 140 W of 1/8.

B.M. 582.60 Aneroid (590) 14' E and 2.50



(560) 55736 All

MIXED GROWTH
↑
E. clypeata

x
↓
E. section line

(570) full scrub

Running south on east section
 line of 2nd (47-34) $\sqrt{402}$ (590) 9th lar. 9.40
 10003 (575) creek open swamp (just line) 10.35
 20148 stuck *Perceblum* 40 E of cor
 Bull. 567.29 Ameroid (570) 11.15

Running north on east edge of 2nd
 Bull. 557.36 Ameroid (560) $\sqrt{402}$ 11.30
 mixed growth soon changing into swamp.
 10002 (560) swamp (creek at 000) 12.15
 20002 (595) no line found so continued
 north. $\sqrt{4}$ used. Second growth 12.55

64

59146 R.M.
(599)

S. 16 T. 47 R. 34

Aug 20 23
(579)

(591)

(600)

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(600)

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(570)

(605)

(600)

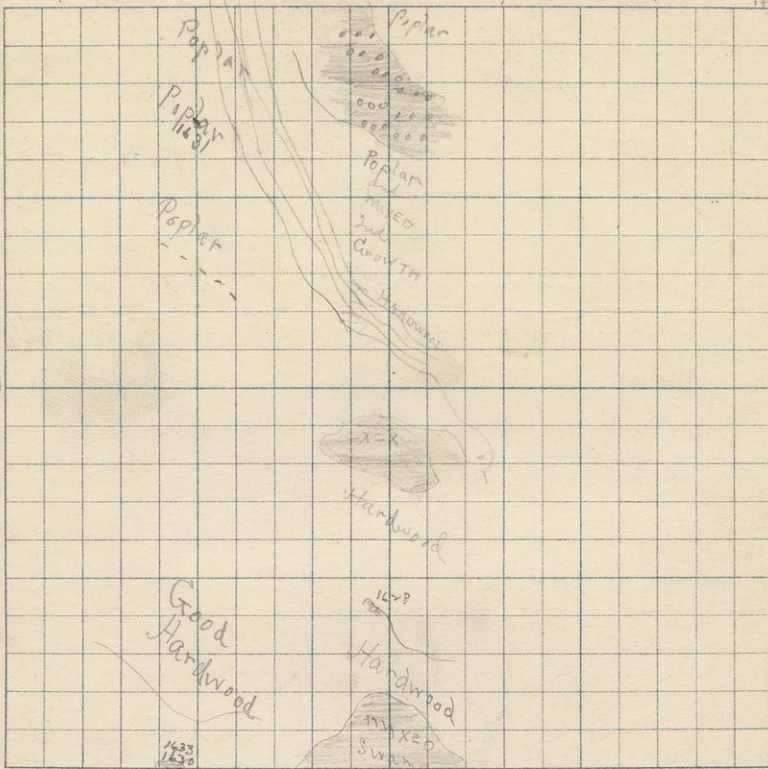
(599)

(600)

(610)

(605)

(600)



↑
weight

↓
quarter time

162

162

163

163

Oct 4th Rainy.

65

Running south on quarter line of 16
Bull. 588.73 Aneroid (570) $14^{\circ}30'20''$ 7.30

Poplar

8000 s (585) fair hardwood

10000 s (600) " " " " " " $14^{\circ}30'20''$ E 8.10

11700 s (600) Good hardwood.

20000 s (600) swamp. no line found so
continued south. 9.00

Running north on west eighth of 16.

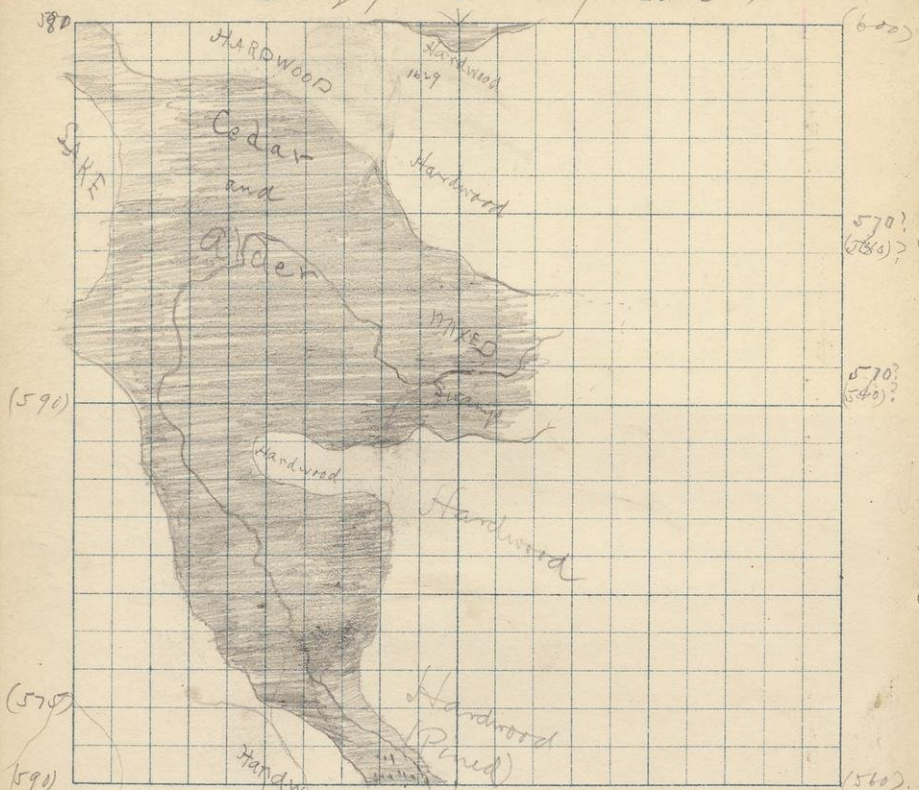
$14^{\circ}30'20''$ E used Aneroid (590) (with mistake) 1.30

10000 n (590) good hardwood 1.50

20000 n (590) struck Kenablic 5 W of plateau

Bull 591.46 Aneroid (590) Poplar 2.20

- 1628 4000 n 10000 s sec-16 outcrop of graywacke
trending n + s cleavage. strike $n 80^{\circ}E$ dipping
- 1628
1633 15000 W SE cor-16 small covered
outcrop of graywacke 1633 inclusion in 1630
- 1631 17000 n 15000 W SE cor-16 small low outcrop of
graywacke with some parts more schistose
(different grades of schistosity)
than others dip between $11^{\circ}S$ strike $n 80^{\circ}E$.



W eight.
 quaternary

162

163

Running south on quarter line of 21,
1000s (560)? Mixed swamp. 9.³⁰

905s (560)? Creek?

2000s (560) Struck trenchline at ~~8~~ stake
Bill 579.49. Amund (560) 10.⁰⁰

Running north on west eighth of
21,

Bill 592.87 Amund (590) 12.¹²

5752 crossed creek flowing SE (570)

14252 " " " SW (570)

20002 struck lumbermans stake and
continued north. 1.⁰⁰

1629. 1830x1000W SE cor 21 outcrop of gray tache
entirely covered. Nothing made out
in regard to its structure.

1623 Inclusion found in ledge.

580
570

580
590

580
610

570
600

640
620

610
620

611
620

600
620

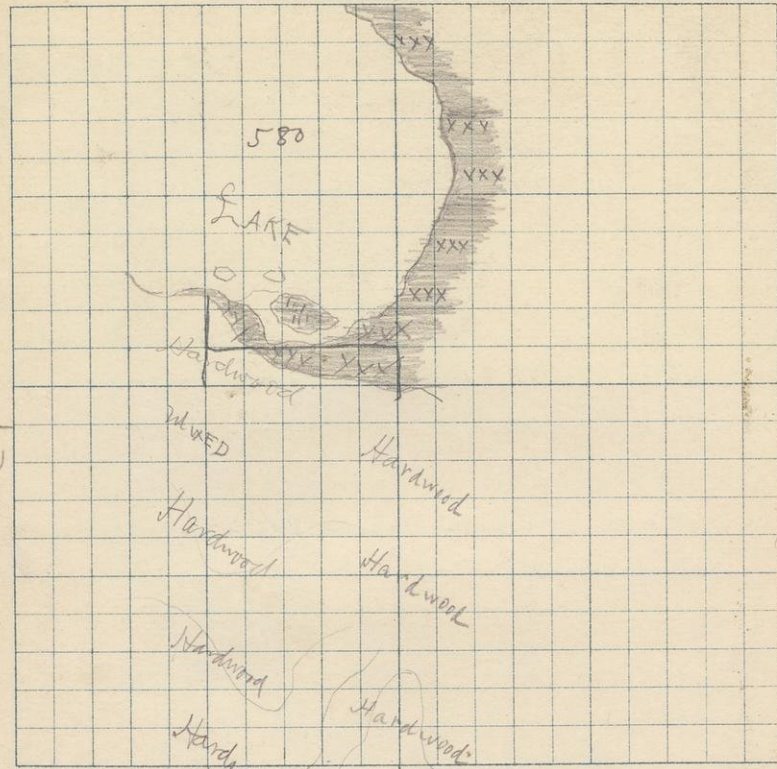
585
615

1610
618.17 1322

BM 587.99

eight

section line



Extra

69

Running north on east side of gro.

B.M. 615-17 Anwid (615)

Hardwood with scattering pine 10.⁰⁰

1200 ft Lake 11.⁰⁰

Running north on east
section line of 40.

Lake 1270 S (660) Cedar swamp 11.35

Good hardwood after 1100 S.

19988 struck bench line at corner

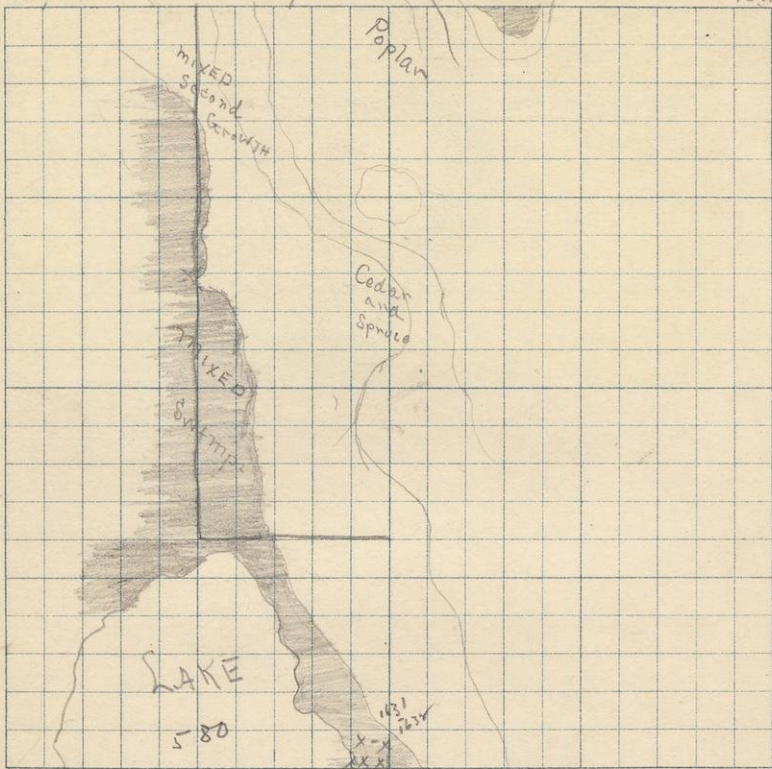
B.M. 587.99 Anwid 12.⁵⁰

70

S. 17 T. 47 R. 34

12.11.19.61
(600)

599.66
(590)



585
(580)

585
(580)

(600)

(620)

(600)

(610)

595
(600)

580

(570)?

light

section line

16.
-
163

Oct. 5th Bright,

Running south on east section line
of 17

BM. 619.61 Aneroid (670) $\sqrt{40^{\circ} 20' E}$ 7.55

740's (600) inland spruce-cedar growth.

hardly could be called swamp.

1000's (610) Poor hardwood 8.30

woods (570) spruce and cedar swamp 9.30

Running north on east eighth of 17.

2014 21 struck benchline 432 of 1/8.

BM. 599.66 Aneroid (590) $\sqrt{40^{\circ} 20' E}$ 11.10

1631 1300 S2 cor sec 17 Outcrop of sideritic quartzite

1632 being richer in siderite on the west side.

The weathering shows for a much the beginning
of an ore formation. The more slaty it is the
less carbonate + vice versa

72

617-4 Bull.
(615)

S. 18

T.

47

R.

34

617.78
(620)

(610)

(600)

(590)

(600)

(590)

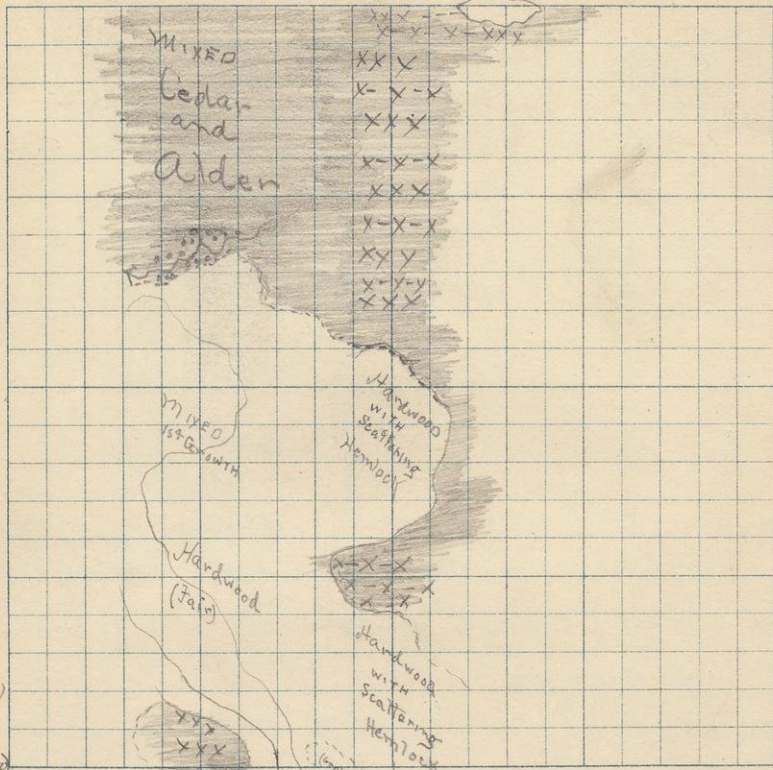
(580)

620
(620)

670
(610)

620
(610)

(605)



weight

quarter line

Sept 6th cloudy.

73

Running south on quarter line of 18 (4734)
 Bill. 617.71 Aneroid (620) $150^{\circ}15'E$ 8.20
 Spruce + cedar swamp, "about 1/4 stake"
 1000 s. (620) Fair hardwood with scattering hemlock.
 $150^{\circ}E$ mixed 9.00

2000 s (610) Fair-good hardwood with scattering
 hemlock of good size + quality.

No line found so continued south. 9.40

2200 s struck "original" line of 1/4

Running north on west eighth of 18 (4734)
 Turned about 4° vary from $3^{\circ}30' - 4^{\circ}30'E$ without any
 regularity probably due in part to observation.

Aneroid (580) cedar swamp. 11.00

1000 n mixed first growth (590) 12.00

1375 n (600) small creek flowing SW in Alder
 swamp

2000 n struck benchline 20 W of stake.

Bill. 617.52 Aneroid (615) 12.40

The variation given by the map $5^{\circ}15'E$ ($2^{\circ}16'30''$)
 is too much. The one or two dead
 observations obtained gave $3^{\circ}30'E$

However we ran by $4^{\circ}E$ wh. proved
 about $30'E$ too much.

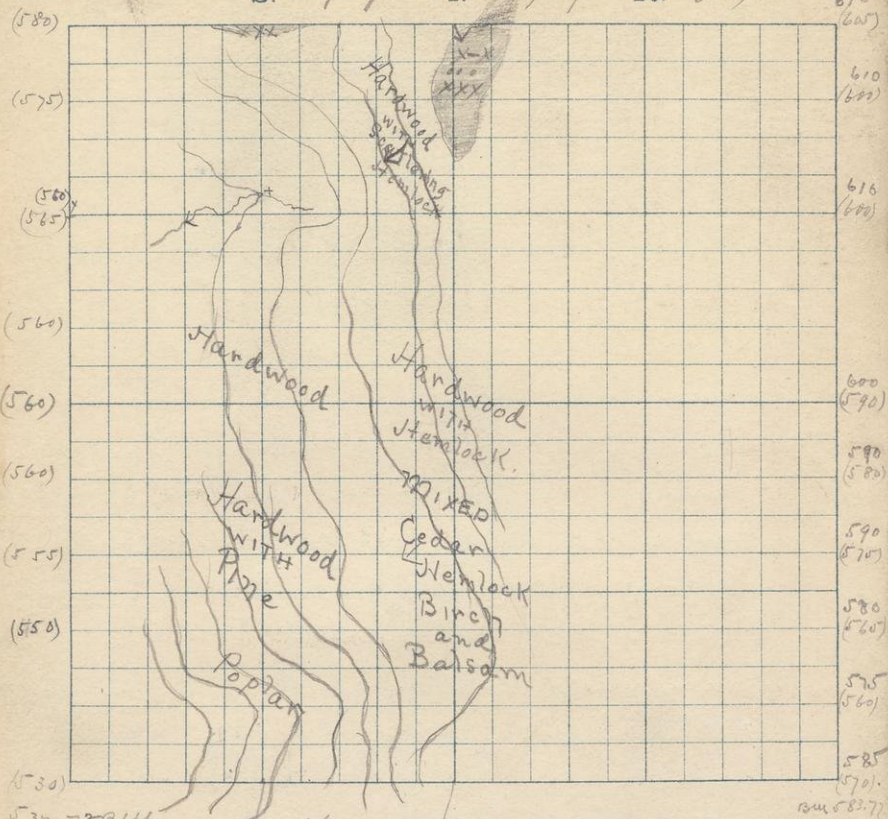
617.79
(620)

620
(620)

620
(610)

620
(610)

(605)



weighted line

quarter line

585 (570)

Running south on quarter line of 19
 (47-34) Aneroid 605 9.4°
 1000s (590) 10.00

1000s (570) struck bench line at $\frac{1}{4}$ stake
 Bell, 583.77 Aneroid (570) 10.20

Running north on west eighth of 19 (47-34)
 Bell, 534.73 Aneroid (570) Total 4°E 10.35

young poplar in old bury returned,
 Some very good pine, if cut soon.

1000n (560) very fair maple hardwood with
 few scattering pine 10.45

1050n (560) small creek flowing SW.

1000n (580) swamp of small cedar. 11.20

76

558.4 x 13m
(550)

S. 213

T. 47

R. 35

(520)
(510)

(500)

(515)

(530)

(540)

(550)

(500)

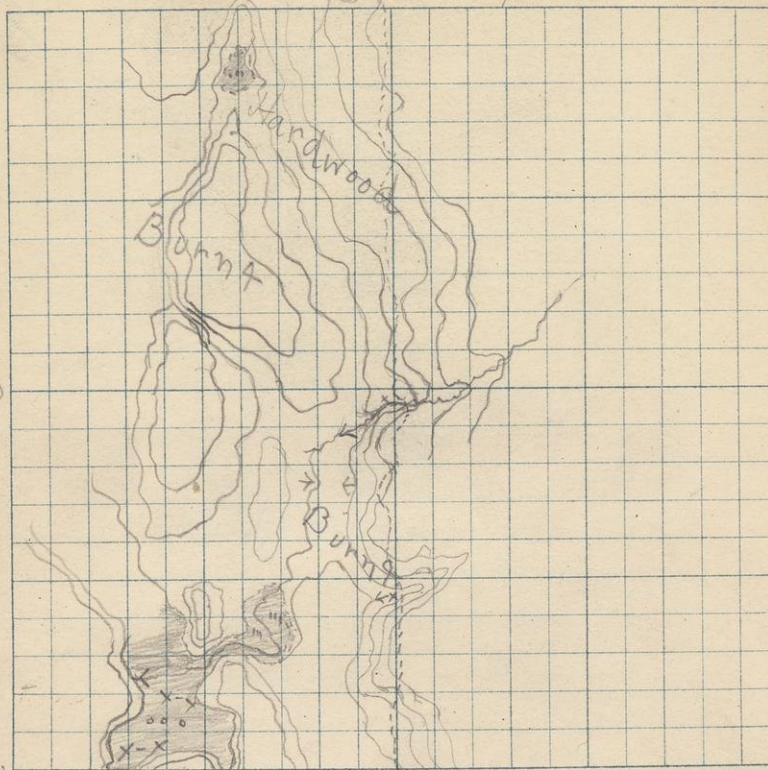
(520)

(540)

(520)

(490)

(520)



E. eight

E section line

Equal to Bench station on 2556x

Oct 7th

77

Running south on east line of 13
47-35 (Range line)

B.M. "682.89" Aneroid (580) 1502 8.15

Partially burnt Hardwood.

1040 s (540) creek flowing SW 9.50

Fair hardwood with some good pine.

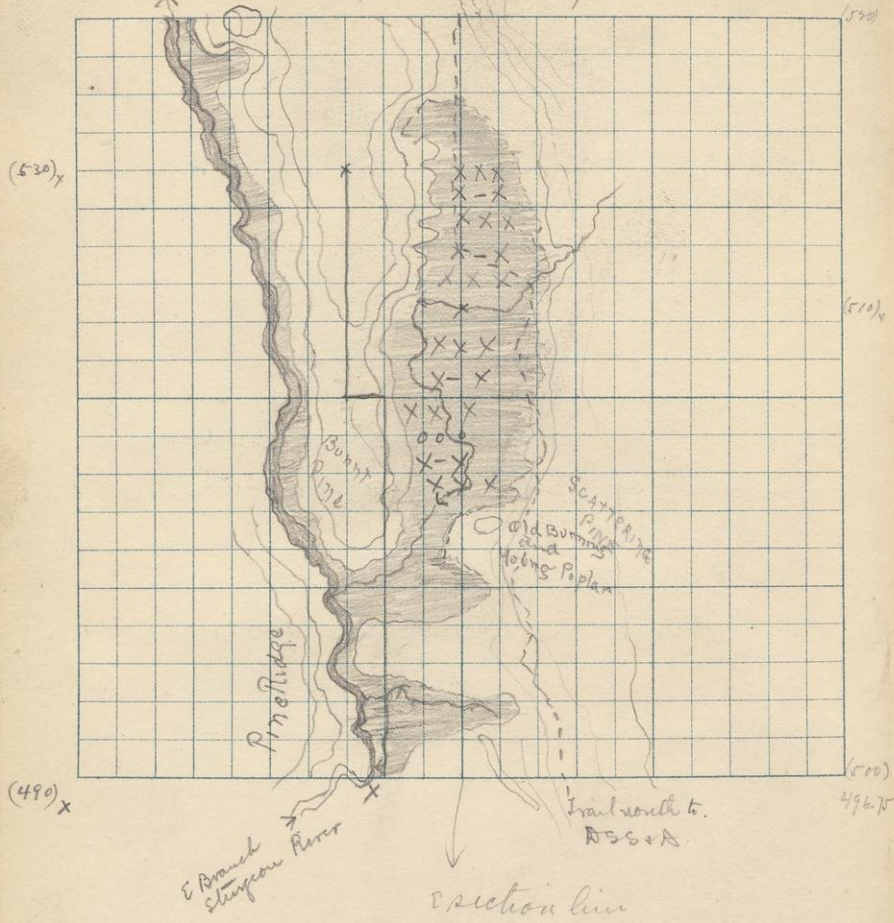
2000 s (520) stump "original" at corner 9.15

Running north on east eighth of 13
aneroid (530) Tued 502. 11.50

2000 n (550) stump benchline at 1/4 stake

B.M. 553.44 Aneroid (550) 12.45

S. 24 T. 47 R. 35



Running south on east section line of
24 (47-35) (500) Partial Runny:

740S (510) small creek in pines + cedar swamp.

8170S, 1200S + 1335S small creek.

1820S (500) small creek.

2000S (500) @ old Runny struck benchline
at stake

Bill. 496.79 Averoid (500)

10.¹⁰/₁₀₀

Running north on east eighth of 24.

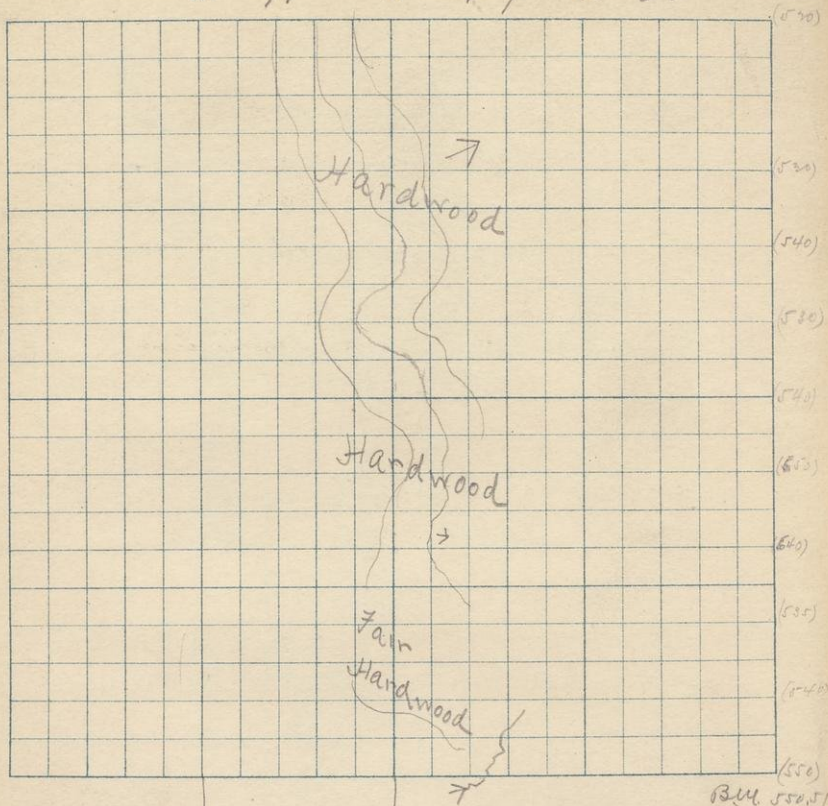
Sturgeon River E Branch (490) 500 W of
corner. started 200 E of 1/8 stake

10.²⁰/₁₀₀

1000 N set back 100 paces.

2000 N set back 200 " on to the N + S

east eighth line + then continued 11.¹⁰/₁₀₀
north.



weight

quarter line

This plat not numbered wrong.

Oct 8. Cloudy.

81

Running north on quarterline of 11
47-35

Bill. 550.51 Ameroid (550) $\sqrt{5.5} 8.5$
Fair hardwood.

200 x (540). 400 x (535) 600 x (640) 800 x (550)

1000 x (540) Fair hardwood $\sqrt{5.0} 8.5$

1200 x (520) 1400 x (540)

2004 x (520) found intermediate line but no slate
so continued north 9.20

(470)

(460)

(510)

(490)

(520)

(500)

(515)

(500)

(520)

(500)

(500)

(520)

(500)

(525)

(525)

(500)

5

(530)

(500)

(540)

(500)

(535)

(500)

HARDWOOD

Hardwood

Hardwood

weights.

quarantine

This plat is not numbered wrong

Running north on quarter line of
 2 (47-35) (570) $\sqrt{500}$ E. Hardwood 9. $\frac{20}{20}$
 740n (540) (812) (495)
 1785 (575)

4973n struck north benchline 3w of $\frac{1}{4}$
 B.M. 461.75 Anroid (460) $\sqrt{500}$ E 10. $\frac{35}{35}$

Running south on west half of r.
 B.M. 468.57 Anroid (470)

Struck line at 2005 $\sqrt{500}$ E 7 1.15

200 (510) Hardwood

400 (520) "

600 (515) "

800 (520) Spruce Swamp

1000 (520) " "

1200 (525) Hardwood

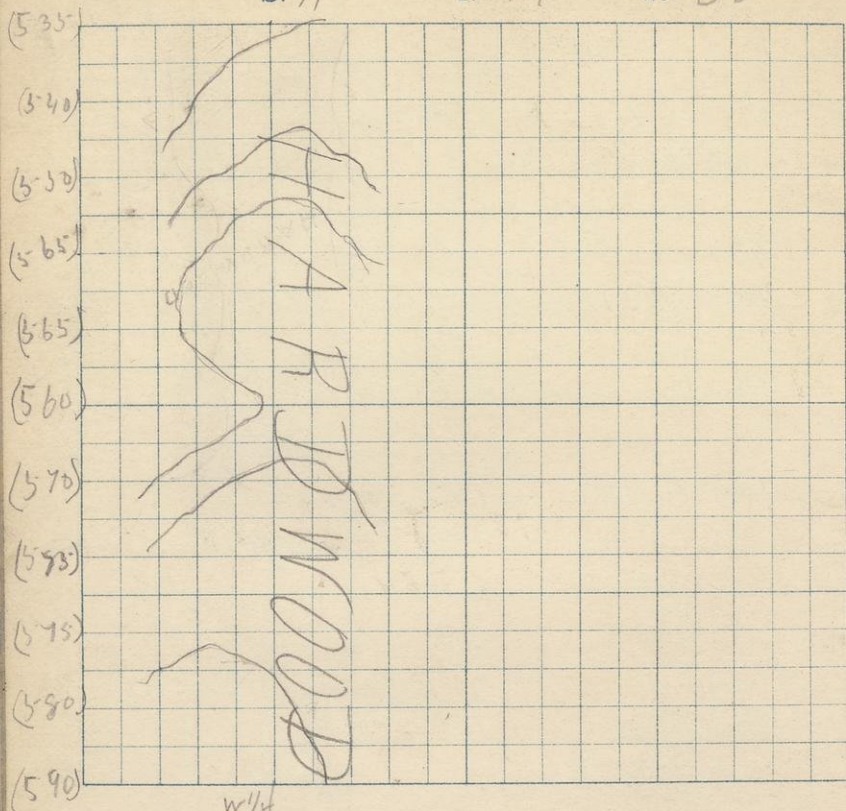
1400 (525) "

1600 (530) "

1800 (540) "

2005 (535) "

Notes on run south taken by J.S. Finley



578.75 base $w/8$ ↓

This plot is not numbered wrong.

Notes taken by J. S. Friday.

Young Son W $\frac{1}{2}$ line Sec. 2,

85

0. (535)	Hardwood
200 (540)	"
400 (550)	"
600 (565)	"
800 (575)	"
1000 (560)	"
1200 (570)	"
1400 (575)	"
1600 (575)	"
1800 (580)	"
2000 (590)	"

B.M. 578.75 June 2.15

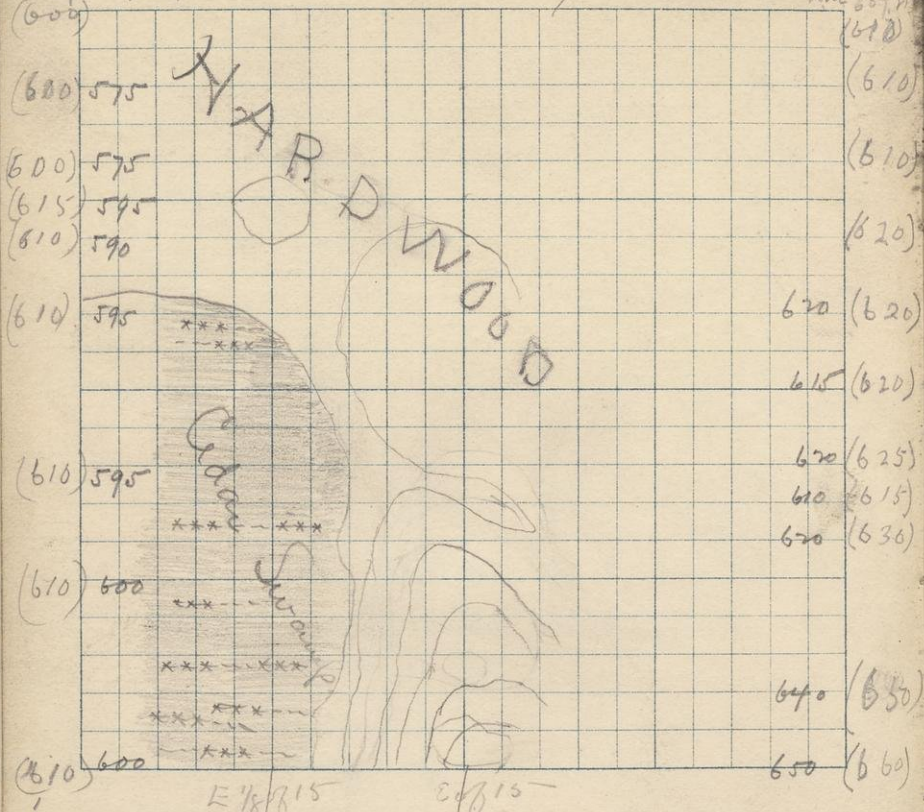
Closed at 1984

86

577.10 mi.

S. 15 T. 47 R. 35

mi 507.11



Notes taken by J. S. Finlay.

Going South on the East line of 15-

47-35 B.M. 607.21 Aneroid (660) 20

Time 8.25 V. 5 $\frac{1}{2}$ -f.

200 (610)

400 (610)

600 (620)

800 (620)

1000 (620)

1200 (625)

1300 (615)

1400 (630)

1800 (650)

2000 (660)

Hardwood.

"

"

"

"

"

"

"

"

"

9.20

~~B.M. 577.81 Aneroid (660) V. 5 $\frac{1}{2}$ Time 9.30~~

Going North on E. $\frac{1}{8}$ line of 15-

0. (610)

500 (610)

800 (610)

1200 (610)

1400 (610)

1500 (615)

1600 (600)

1800 (600)

2000 (600)

Thick Cedar Swamps.

"

"

"

Hardwood and Hemlock.

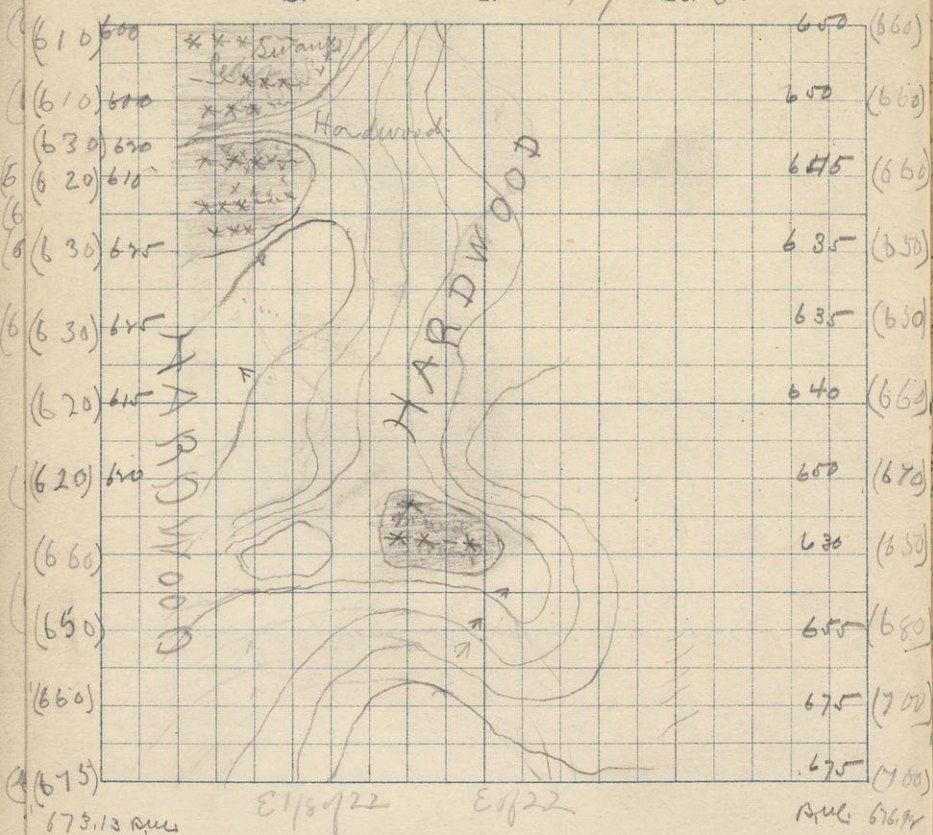
Hardwood

"

"

Closed at 2015

B.M. 577.81 Au. 600. Time 1.45.



Crossed a trail
at 1200 ft. running
northwest.

Notes taken by J.S. Finlay.

Going South on east line of 22.

B.M. 577.81 aneroid 660

Time 9.30. V.S.

200 (660) Hardwood

400 (660) "

600 (650) "

800 (650) "

1000 (660) "

1200 (670) "

1400 (650) mixed Swamp

1600 (680) Hardwood

1800 (700) "

2000 (700) "

Struck line at 2503

B.M. 676.92 aneroid 700. Time 10.40

Going North on East $\frac{1}{2}$ of 22

B.M. 673.13 aneroid 675. Time 10.55

200 (660) - Hardwood

400 (650) "

600 (660) "

800 (620) "

1000 (620)

1200 (630)

1400 (630)

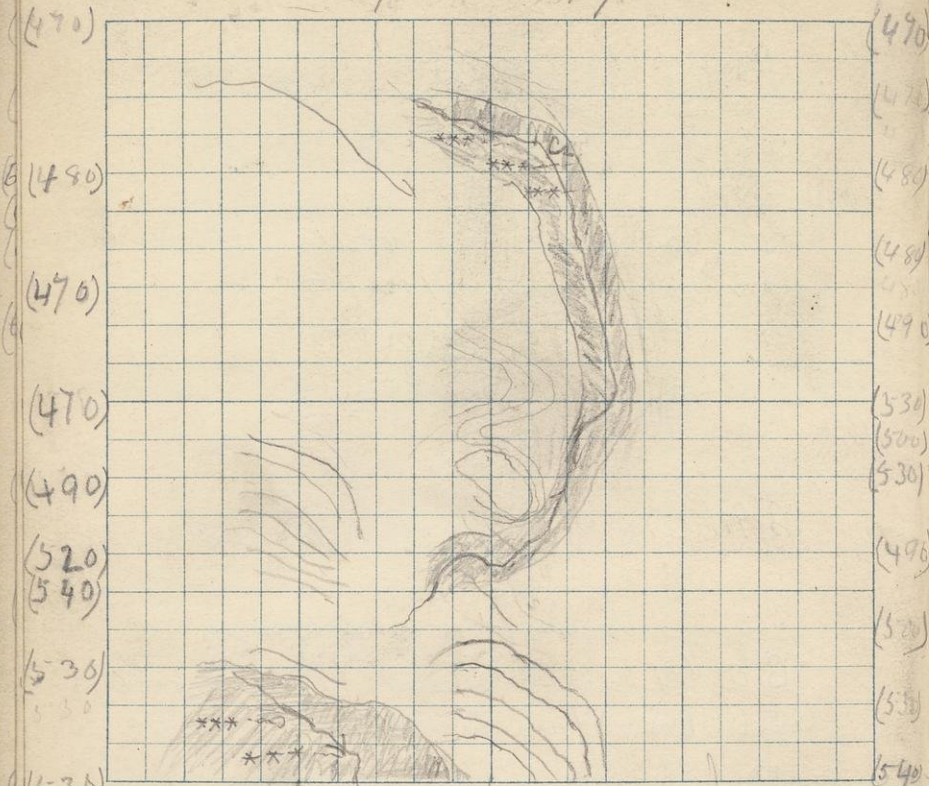
1600 (620) Cedar Swamp.

1900 (630) Hardwood ridge

1800 (610) Cedar Swamp.

2000 (610) "

No intermediate line



526.90 B.M.

B.M. 528.22

1/8 89

1/4 89

This plat is numbered wrong

315

notes taken by J.S. Finlay.

Going north on $\frac{1}{2}$ line of 9.

B.M. 538.88. aneroid 540 U.S. Time 7.30

200(530) Hardwood

400(500) "

600(490) A stream running North east
through small cedar swamp

800(530) Hardwood Knoll.

900(500) Hardwood

1000(530) "

1200(490) "

1400(480) "

1600(480)

1800(470)

2000(470)

Closed at Intermediate at 8.45

2011 paces

Going south on $\frac{1}{8}$ line of 9. Time 20

0.470. Hardwood

900(480) "

700(470) "

1000(470) "

1200(490) "

1400(320) "

1500(540) "

1700(530) Cedar Swamp. A stream
at 1850

2000(530) Swamp.

B.M. 526.90 aneroid 530 Time 3.15

394.32 Bar

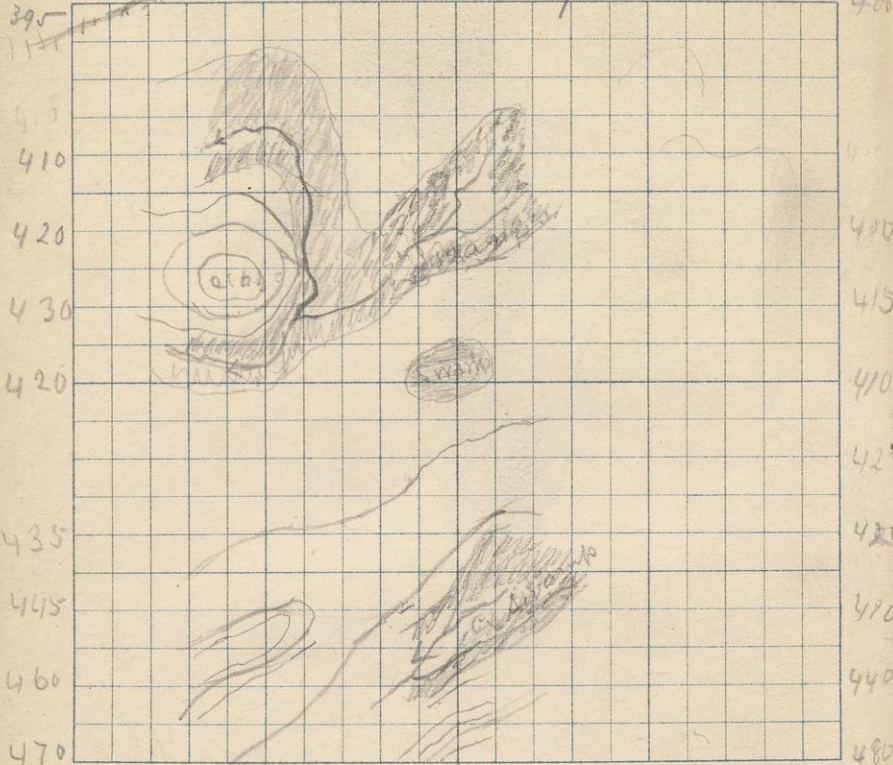
S.

4

T.

R.

35 June 3987


 $\frac{1}{8} B4$
 $\frac{1}{4}$ line B4

This plot is not numbered wrong

398.77
400
Going North on $\frac{1}{4}$ line of 4.

200 (440) Mixed hardwood & Hemlock
400 (410) stream running south in
600 Cedar Swamp.

400
600 (420) Hardwood

800 (420)

415
1000 (410) Mixed Swamp.

1200 (415) Hemlock.

410
1400 (400) Stream running through Cedar ^{Swamp}

420
2000 (400) Hardwood

B.M. 398.77 Closed at 1988. ^{Time 9:55}

420
75 paces south of R.R.

410
440
Going South on $\frac{2}{4}$ line of 4.

B.M. 394.32 Aneroid 395. ^{Time 1:10}

480
400 (410) Stream running through
Cedar Swamp

600 (420)

800 (430)

1000 (420)

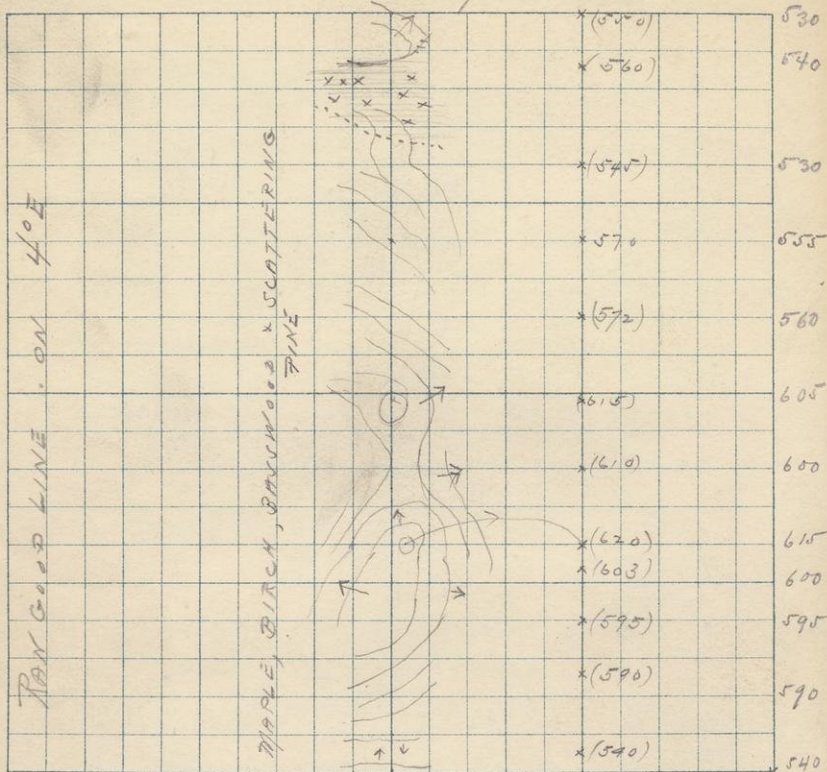
1400 (435)

1600 (445)

1800 (460)

2000 (470)

Notes taken by J.S. Finlay



BM 552.41

↓
E section line

↑
X

oct 12 Going N on line betw
secs 8 & 9 - 47 - 35

BM = 552.41 amount 0' = 30.76"

7-40 am

Hardwood at corner

1750 begins dry swamp

timber changes to

cedar spruce pine hemlock

1830 leave swamp and

enter hard wood

Strike post at 1994

(Run by ER Maurer. No time
taken for interpolations between
bench lines.)

2

SEE NEXT PAGE

RAN GULF LINE	VEAD E	MAPLE BIRCH		(410)			
				DS S X A	x(420)	395	
				CR	x(420)	375	
				LEVEL	x(430)	400	
				CEDAR HEMLK BIRCH	x(430)	400	
					CR	x(400)	370
					x(420)	390	
					x(440)	415	
					x(445)	420	
				MAPLE BIRCH FEW PINES	x(460)	485	
x(480)	455						
x(510)	485						
x(535)	520						
x(550)	520						

↑
X

Running N. on line betw
secs 4 & 5 - 47 - 35

Fine hardwood with scatter-
ing pine & hemlock from

0 - 1000

1050 enter swamp (dry)

large cedars, few hemlock
& birches

1260 rapid creek 12' wide flows W

1350 top of high bank enters
changes to maple & birch
& hemlock

1730 Rapid creek flows Str. S side

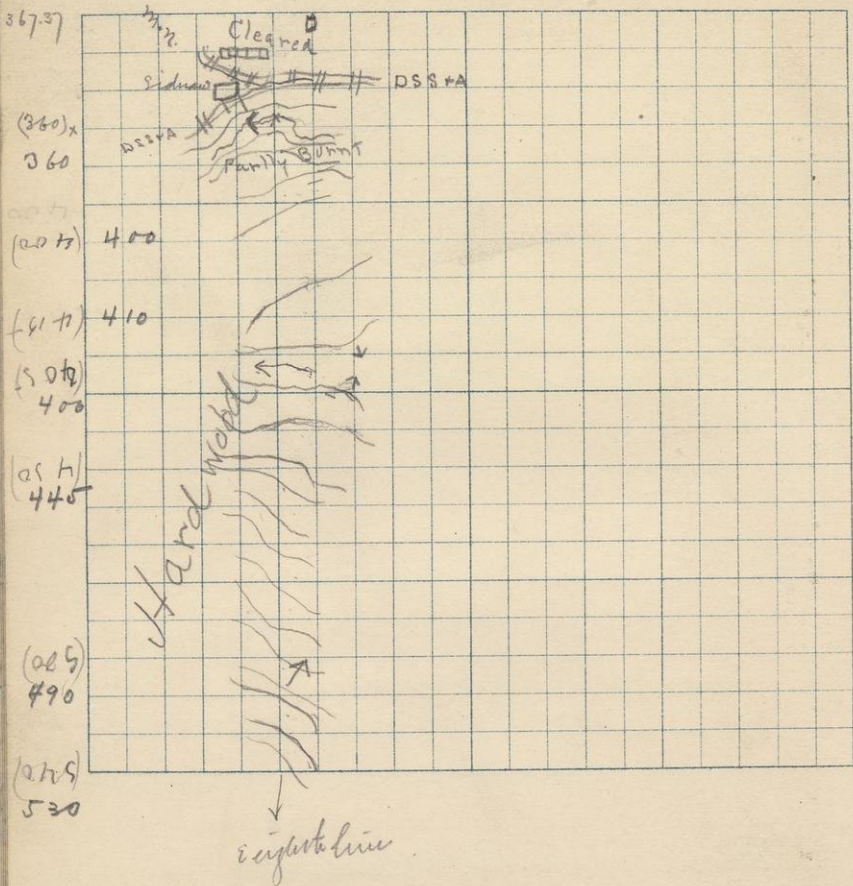
Stretc line at 1995 - 10p

W ground

BM 374.46 around 410'

9-30 am

Run by E.R. Manner.



Running south on a eighth of
J. (H7-3/5)

Bill 367.37 Amerind. (865) 1.70

1855 5888A RR.

3055 (B60) Creek flowing W.

200 (L. 350)

2000 L. 350
2000 L. 350
2000 L. 350

20205 struck intermediate line to 207 1/2. 2.00

Notes taken by J. S. Finlay.

(540) 530

(57.5) 530

(69.5) 545

(79.5) 545

(87.5) 555

(92.5) 555

(93.5) 565

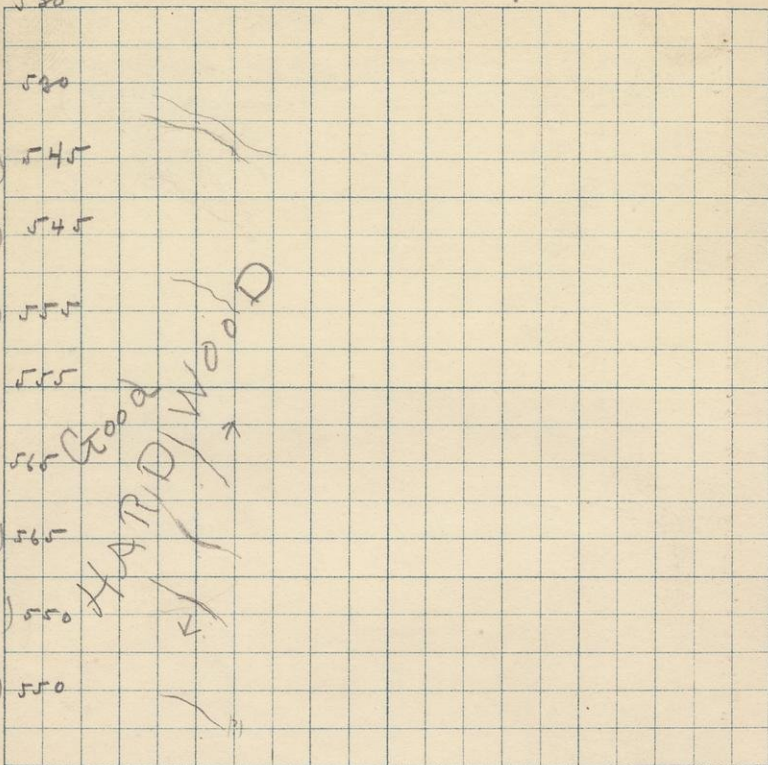
(98.5) 565

(102.5) 550

(107.5) 550

557.33 1200

(570)



Notes (?) by J. S. Finlay.

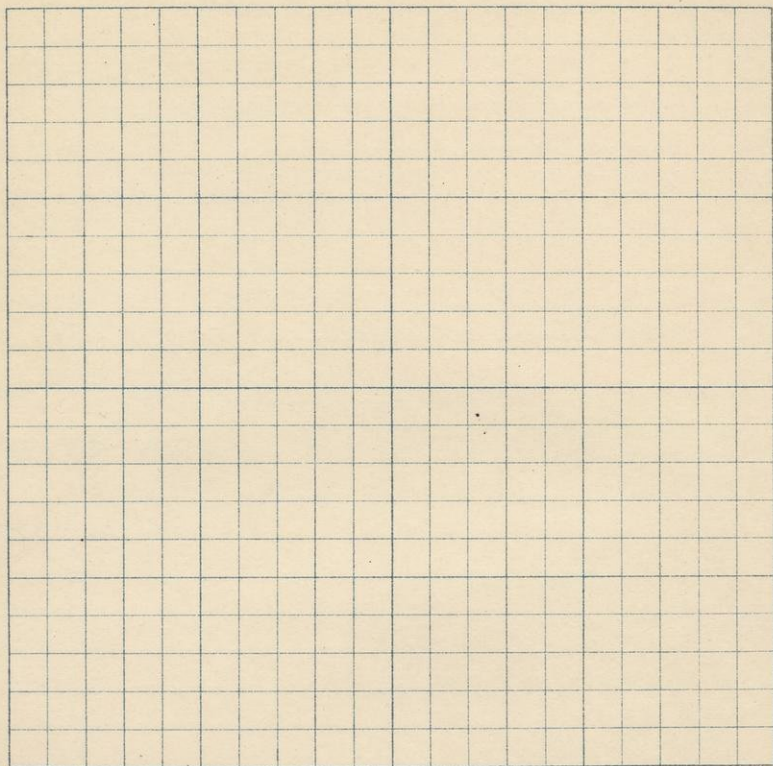
7016 S trench benchline at 50 g / 10 stake 2.50

see plotting of both Finlay's + my outcrops of 105 g

S.

T.

R.



S.

T.

R.

A large grid of graph paper with 20 columns and 20 rows, centered on the page. The grid is composed of thin black lines forming a square pattern.

J 47 R 33

R 32

J 47 R 33

R 34
↑ OS

1.5

*G
14

1.3

1.8

Don
1702

Don
1702
1702

1702 OS
1702

2.2

2.3

2
Don
1702
1702

*G

↑ G

1.9

*G

*G

Don
1702

Don
1702 OS

Don
1702
↑ OS
*G

OS = Atschite Schicht.
G = greywacke.

J47 R 34

J. 47 R 33

106

1000
1000

1000
1000
1000

Small
1000
1000

1.3

1.8

1000
1000
1000

7

16

1000

2.7

19

20

21

D = chaban

J 44

R

31

J. 47 R 34

17

13?

16

From
1150 L

15

14

15

1150 L
400 S

1150 W
300 S

1150

1150

1150

20

21

22

23

1150 = diatone
1150 = sediment schist.

1150 W
1150 S + C

J 47 R 35
↑ 20%
↑ 10%
↑ 5%

147 R 34 108

1.5

1.4
↑ 20%
↑ 10%
↑ 5%

1.3

1.8

2.2
* 8

2.3

2.4

1.9

JH7R36

J. H7 R 35

1.3

1.8

1.8

1.7

1.6

shallow
water

~~1.4~~
1.4

4

1.9

2.0

2.1

q = quartz

J47 R 36

17

16

15

14

20

21

22

23

A

B

A

A

B

A

S47

R 36

18

19

Blank Pages

112-117

Skipped

SVS

3/412

1/2
3/4
5/6



