

Township 43 north, ranges 30, 31, and 32 west, specimens 31654-31700, 33001-33035. No. 273 1891

Mathews, E. B.

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

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LAKE SUPERIOR SURVEY

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LAKE SUPERIOR SURVEY.
INSTRUCTIONS.
Topography.—On the left-hand page map as much of the section as has ac-

tually 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 topographi-

cal 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 suf-

ficient 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. c., 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 bowlder, 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.

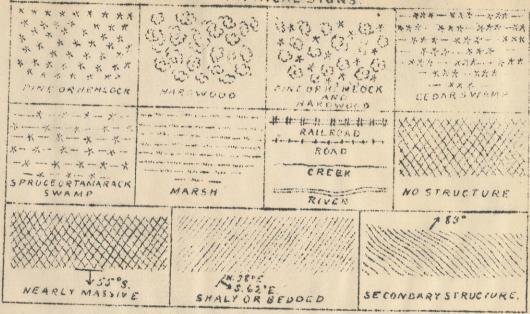
EQUATION OF TIME FOR 1891,

1.				
JULY. Subtract from watch time.				
AUGUST.				
2				

		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

THEORITON OF TIME LOW TOOT"

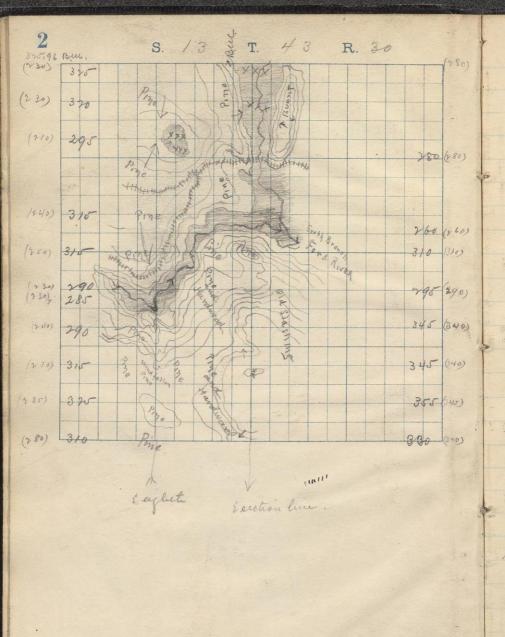
TOPOGRAPHICAL SIGNS



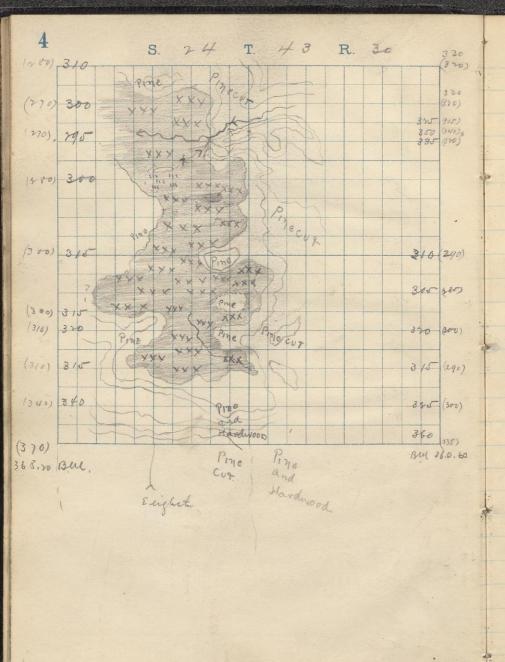
SPECIMENT: 1654-1700 300/-13035

TOWNS - 43-30 43-31 43-32

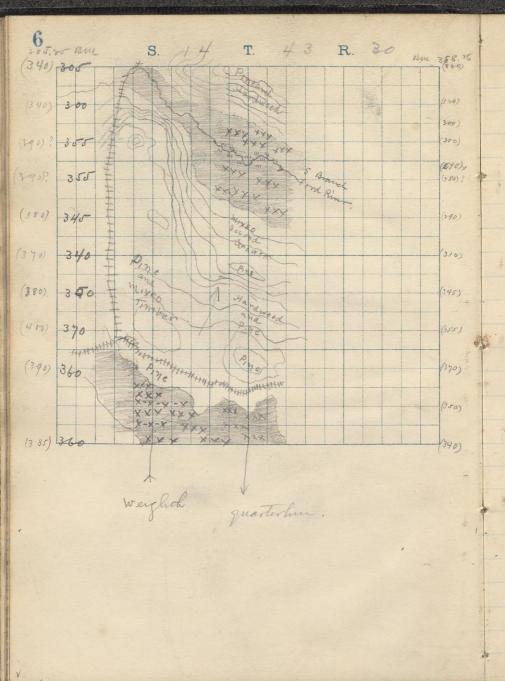
NB - also a # 1654 in Borse # 64



Oct > 6, Overcast. Running south our east section him of 13 (43-36) (Range line) BM (150 W) 296, 41 amind (300) 0= 30,72 8,45 Missed swamp mostly cedar, (280) crech 100 8 85 E (\$80) 5160 Supplywad (850) 800 S. Ford River. 2005 S (320) Pine to west hard on east 1005 rooss (320) stuck intermediate line at come Rue route on east eight of 13. aneroid (180) 51.30 gives good time 12.20 6752 (230) crossed ford never. gooulars) supply road. 100 1000 n (roo) Pure mage 13122 supply road. 2003 1430) struck benchling at our / state and found the Berl side of another muchy state 100 W. 1.40 Bell . 375,96 Ceneral (230) 1140n secor13. low watercovered outerop of banded 1654 states, blue, red, grey etc. The stuhe (appropulately) was N 350W dip 300 sw. The stuhe of the charage was (approximately) is no W dif 60° EW.



Rung south on east section him of 24 (43-30) (Evangeline) Enceroid (300) Pine out soul sowert glin 2855 (315) small creek. 1000 5 (790) Pine cut où sast standy ou west rede 1035 1000 5 (335) struch tenchibie at comer. Blet. 360.60 aneroid (335) 11,00 Bul 36 8,20 annoid (370) 0= 11, 15 400 n (310) Cadar swamp, 10002 (300) " 16502(270) small creek flowy W.
19552 (280) stuck internedicte line at
1/8 states 12.32 17.30' E used. Pine first class size and quantity med guardy



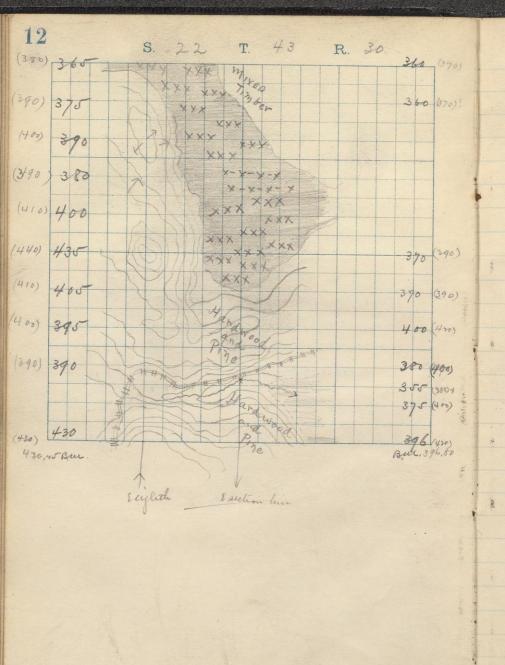
Oct & 7, Overcast. Running south on quarterline of 14. BM 3 \$8.76 amoid (3 60) 0 = 29.67/1/030'E 8,00 5358 (90) crossed south branch ford niver. Ereaterpart of the cedar is small, 1000 s (310) Pine just alread 17355 (350) supply road. 2000 5 /340) cedar swamp stineh intermediate
line at 1/4 stoke line at 14 stoke Rung north on wert light of 14. averand 385 463 n supply road. 1,00 1000 m (370) Pine and mixed growth 1918 n (340) South branch of Ford River 2008 x strick benchtim at 1/8 state 1,30 Bell 305, 75 aurord (340)

8 S. 2/3 T. 43 R. 30 (385) 360 (340) XXX XXX XXX XXX (395) (390) 340 (330) (390) 340 (360) 410) \$352 (390) 385 (375) Sasola L. Co. RR. (348) (370) 370 (350) (390) (360) (400) Bu 404,13 356.89 Din Westeighth quarterlini

Run of pourth ou quarterline of 23. amord (340) Cedar, swamp, Viso's 9.4 1000 8 (385) mixed hurler 1400 8 (300) crossed marrow guage R.R. 15005340) creck, XXV 15.608(350) narroguage Sagota L. R.R. 2000 5 (400) stuck benchline at /H stake. Bell, 404.11 accord (400) Rung worth on west eighth of 23. BILL, 856.89 Queroid (360) 0=29.68' 10,55 4452. Sagola namow guage R.R. 1000 n(410) Missed timber 2000 u (385) cedar swamp, struck wtenudiate live at /8 state

S. /J T. 43 R. 30 312.96 Buy 307.13 (3-60) 314.96 300 (300) (360) 310 3 30 (330) 3 30 (330) 330 (335) 360 (365) 340 (346) 335 (340) 4(0) 390 350 (360) 300 (370) 380) 365 E section line contours mixed on acit of swamp, apparently on the line the swamp was continuous the averoid reading make it look as stough it was not believe they are one and it some in the sectionline and the east eight?

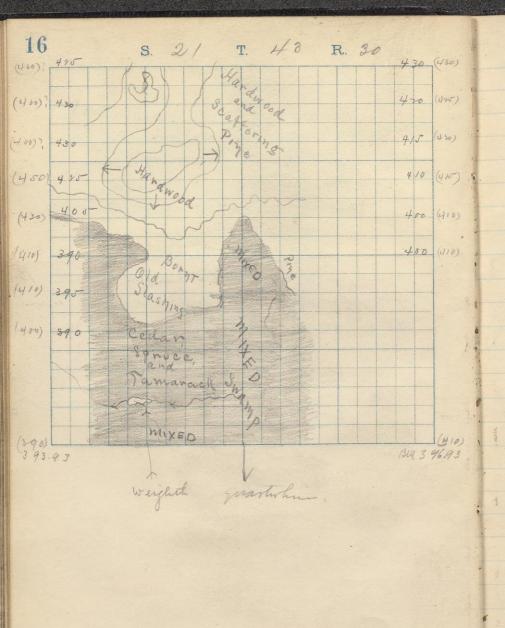
Oct 28, Run south on each section him 7 45 (43-30) 7.40 BUL . 30 7. 13. Comwid(310) 0 = 29. 321 Cedar swamps 1685 (300) S. hauch Ford river 1000 5 (365) white piece good sire fair quality 8,5 1700 & (345) Cedar (good tuber) swamps, 25 15 5 supply road on edge of swamp. 10045 struck intermediate here abcomer 8,40 Rung with ou easterflit of 15. anerond (300) Cedar swamp, good brushy, 2124(380) creek, (270) out of severy. soon (400) supply road. 1000 n(370) cedarswamp. 16 ro u (300) Stranch Ford airer 2000 u (360) shuch benchlin at /8 state Bell . 312.96 award (360) Brushed live the last haff mule. gh



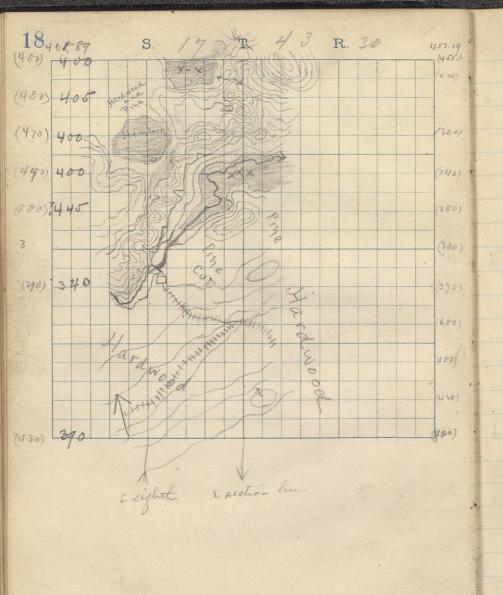
13 Runny south our earl section him 07 2 2. Comoid (3 70) 510 30'E used. 8 45 1800 5(390) Cedar swamp. 9 30 16205 Sagola R.R (390) 16458 (380) creek flow East. 2000 S(470) stuck benchlin acomer, Bell. 396,80 Queroid (4 10) und V1030'E. 10,11 Run , north on east eighth of 22. Bell. 420. 75 aneroid(420) 0=29,2851 10. 375 x (350) creek. 4067(290) R.R. 1000 n (440) Hardwood and pine 10,50 2000 n (380) struck intermediate line adar swamp,

14 s. / 6 43 R. 30 Bur3 45.49 359.46 (32)5 (410) 355 (310) (390) 340 (400) 360 3301 (410) 370 (350) (446) 400 (385) rawood (385) x (450) 415 (400) HALL WALLEN (440) 400) (440) (430) greaterlin

Pot 19. Fair Running south on quarterline Bell 345, 49 Concroid (345) 0=19.15' 8,40 4078(310) Stranol Ford noir 1000 5(350) Whited turber 9.05 1508. Supply road. 0)? 1000 sterch intermediate line ab /49,30 Running north on west eighet 916 ancroid (460) Hardwood. 1945 478 n supply road. 1000 u Hardwood & scattery pine 1555 u (485) S' branch Ford River roso u (410) Hardwood, struck bushline at /8 stake. B.UL . 357, 46 annoise (410) 1,00



Running south on quarterline 07 21- 43- 30, annoid (430) 1000 mixed swamp 2000 S(410) struck tenabline at /4 stake. BUL. 396.93 Concroid (410) 10,5 Rum of north on week eighthe of 21, Bul . 3 9 3 , 9 3 annoud (390) 00 10,20 Cedar, sperce and tamarach swamp 1000 M (410) dividing him between swamp starting // 2000 n (460)? Stuch butenucleate bue at 1/8 state



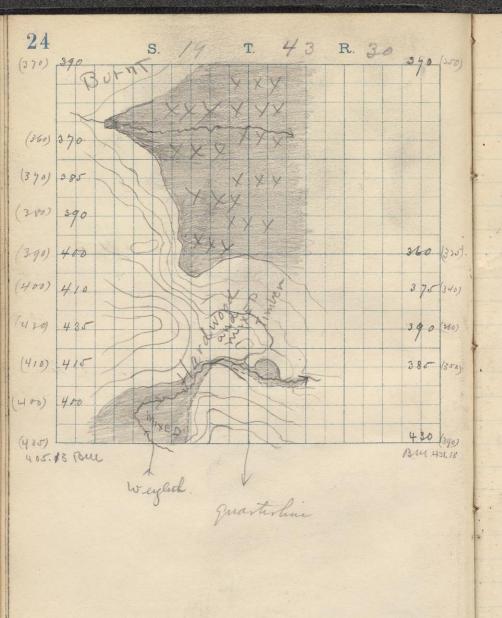
Oct 30. Bught. Rung south our east section li Wird truber 500 8 swamp, 5425. S hauch Ford River 1000 3. (360) pine on rask standy on werkent 8 1384. Supplywad. roos (4 00) struck utimideste him at corgos fair hardwood scattery give. Rung north on east eight No notes taken onacit of severe tooth B.UL. 401. 89 ameroid (480) 1,30

20 T. 43 R. 30 S. 20 (430) 390 Handwood (450) (400) 370 (400) Stashing 4001 (410) mirro 770 (410) 380 (380) 375 (400) (390) 385 134488,42 EMIL Now he without he 405.38 E eight

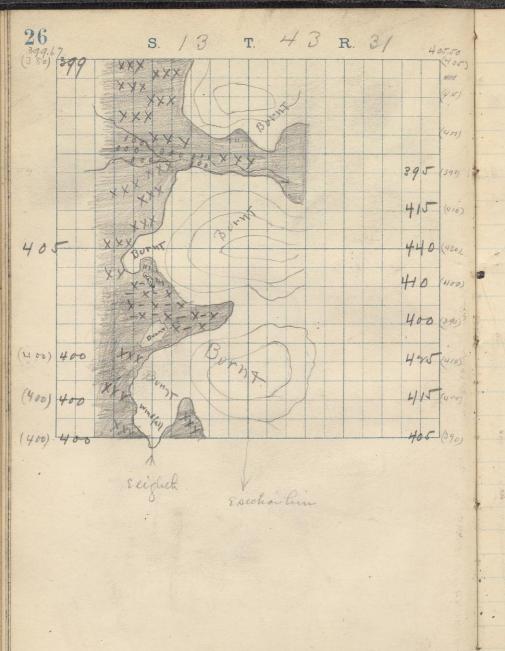
Running south our east section live of so, I arrevoid (4 30) Hardwood 9.10 1000 8 (410) Ou edge hetwen pine + swang 9,20 150) 15808(400) creek flow west BM. 485,22? Annoid (385) Run Hosist anevoid (+05) 0=28.88 11,30 (10)

22 376.74 BM. 43 R. 30 T. 1248 9411 (300) 375 MIXED Timber (Pogn) 380 (380) (3/0) 370 375 (370) MIYER 365 (360) BurnT (340)3 375 3 80 (370) MINER Swamp 8 60 800) (350) 410 (390) 470 370 (360) (380) 405 385 3905 (365) 390 345 (365) 390 (360) (360) 380 (390) 390 quarlirline. weighth

Oct 31. Snow Running south on quarterline of 18. BUL. 3 4.11 aneroad (395) 0=78,87 0 8,50 Poor quality nevered turber with pinecut. 7155 (060) creek flower E. 1000 8 (350) first energy from swamp 9:40 Rung north on west eighet of 18. 1000 m (380) bunt pur stacking 18.40 BUL 376.74 anevoid (3 20) 1, 15



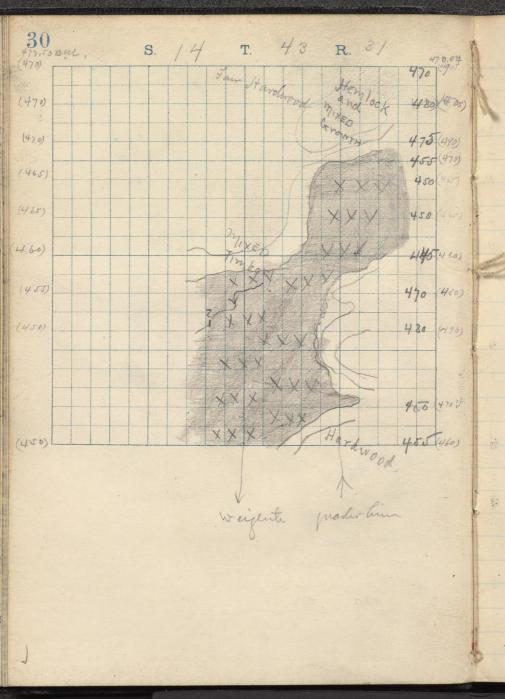
Running south on quarterhing 19. Quefoid (\$50) The trusher out in no guarter. 1000 S (300) fuch out of swamp 2000 5 (90) struck benchun at /4 1040 creeks at 3 75 and at 1615 s Bell. \$31,18 Querord (390,) Purey north on west eight of 19. Mixed swamp. . . 11.35 1000 re mixed lumber (3-90) 1625n (360) creck. 1996 x 1390) struck intermediate lune 158 of 1/8 state + continued north. 12.20



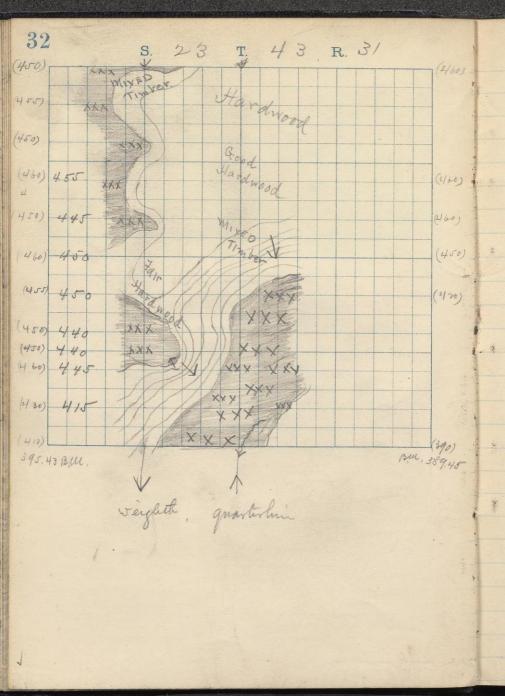
Mor. 1. Snowing. Running south on east live Bell. 405.50 Queroid(405)0=1941' 820 Wixed truber 5938. 18901 Creek. 1000 s (390) brunk lands. 8,50 2000 s (390) struck intermediateline abcomer Running north ou east eighth 713. Ecedar swamp. Bue 399.67 annoid (380)

28 43 R. 3/ (400) 400 405 (890) 3 95 (380) \$ 00 (380)? (410) 400 (380) (420) 415 890 (370) (4/0) (410) 415 HATTHE 3-95 (370) LaKE (410) 400 (370) 400) 400 (370) (430) dayd 40 od 4 4 3 (370) (430) Bu 403.86 127.23 Bur Sago acction live right

Running south on each him og 24 (40-31) 90 8 (380?) (creek, 2000 8(370) edge of pine slashing Excount 10,15 Bul, 403.86 amorie (370) Running north on east eight BUY, 477.73 anewid(430) 0 = 29.47 10.30 Hardwood, fair. 510 n (410) Lake. 1000 H (410) Cedar sware fo. 11.15 1) (6) room struck intrinded to him but no state Continued north 12th



nor. Ind. Fair. Running south on west expected 1 4(43-31) Bell: 47 br. 50 award (470) 0= 79.64" J.45" 28,50 3365 V7045'W. 7658, VO. Fair - Fine Hardwood. 1000 3 (400) mixed trusher J1501 E 1400 5 (450) cidar swamp. 1700 1845 5 J3. E. 1900 8 J3030°E. 20168 stuck whinedeal line 23 w g/8 V508. Peru juint on quarterline 7 14. V 10 E. annoid (460) Hardwood, 1,00 700 n J3018. 735 h VOOE 1000 n (460) swamp toos 1.35 18162 V 30'W. rovon (490) struck benelling at /4 states. But. 2470.04 annoid (490) V 45'E 2.5 (0)



33 Rung south on west eight of 3 mixed trucker 500 amoid (400) 1000 1000 6005 V68E 1000 5 (460) Fairhardwood 18'00'E. 10,50 20335 (410) struck benchling at 1/8 state. Bell. 395, 43 Queroid (410) 5 Bul 38 9.45 Queroid 390) 0 = 1961' Voc 11.45 800 N(420) Out of swamp 15080'E, 1600 re (400) Bood Lardwood 530E. rooo re (460) struck interiordale line at 1/4 state. A few angular bouldness, in burcher, have been found on this section they were in every case grante.

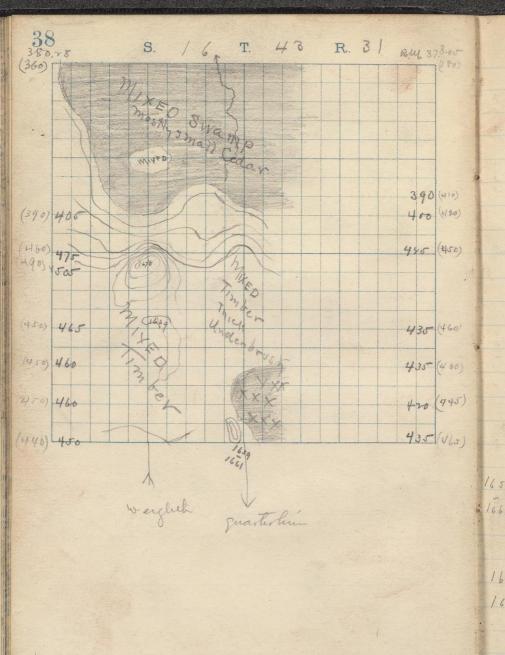
34 R. 3/ T. 43 464.04 S. 15 480 (480) Va aread 480 (480) 490 (490) (490) 450 470 (475)? 455 (460) MINED Chourn (450) (460) 470) 440 Ceolar and Boruce Shoce 430 460) M. VER 450) 430 e section him.

Nov 3. Bright. Rung south ou each him of \$5 Bul 478, 47 aneroid (480) TIS'E 0 = 29,56 8,45 200 8 (480) Fair hardwood, VION'E, 400 5/490) " " Treso's 4505 \$502 600 5/490-) " " Treso's 1000 8(460) mixed wampy growth T408 9,20 17005 V545' E. 1400 850,0-18 1600 8 50,505. 200 55' (460) spense swamp, struck state 1000 Rung north on each eight 150 auch 15030'E 1250 1000 (470) cedar and spence swamp, 150 1503018.

1350 n (490) just energy from swamp 150 noon struck tenchling at 18 state. BUL 464,04 aucraid(50) 303012, 2.00 1656 400 W 82 cor 10 (on tenchline) series of tertito , 1658 which show up 1656 which appears to be a runch altered grante or porply dike. This dike has been altered on one side of it to the slatylooking roch 1657 while on the deter is a segregation of the freed? selica in an impure chest. 1658

36 43 R. 3/ 22 T. (450) 1430 430 (460) (+30) 475 XX 430 (470) (450) 446 MIXED (450) 450 (475) 425 405 (510) (420) my con timbor. 450 (505) (435) 440) 440 (500) 420 (480) (4200) 427.63 16 Esection line t eight.

Runny south on east him of 22 aniford (460) spine swamp 17 2 100 2008 \$ 6.45'E. 400 \$ 560 £ 600 & 560 8 8008 15 45'E. 10005(500) hardwood 56°E. 10,45 1600 5 (505) 55.8. 2000 5 (480) struck benchlin at comer Bell. 417.79 annoid (480) Knung north on east eighth of rr. BM. 479, 63 annoved (475) 0=19.48 1410'E 1/20 1000 n (450) mixed huber - badwood 54°30'8, 1200 1600 re 5-030'E. roof n 400) shuch internediate line (ut not stake) and continued north . 35) Tust at this point out of swamp. State 75 & 7 our position. 150301 E. 801 7.79 You soow se cor you how orelesof of coarse gramed greanstone

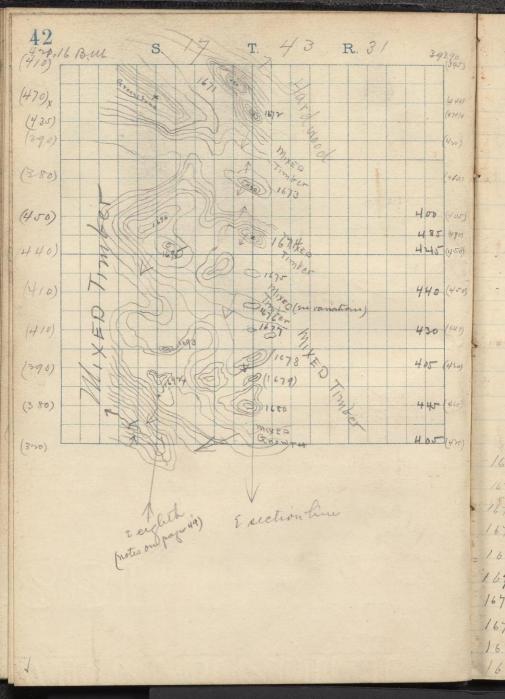


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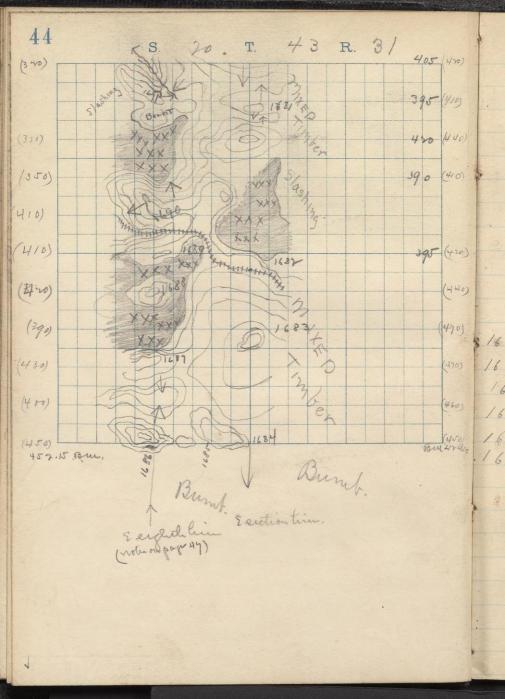
nor 4 avercast Hummy south on quarterline 17/6 BUL 378.05 Rueroid (300) 0= 19.08 8.00 Mysd swamp, 14's. 1000 5 (450) neiges of turber thich underbush 855 1990 8, (405) stuck intermishablin 6 west of 1/4 states 1402, 9. Rung north on west eighthe of 16, Raming + sudway. 1000 m/4 des du north slope of hill. 2000 2000 n (360) stinch benchling Eight paces & of point 500 Woy / and get Que came out 47 E of h. S. /8 states 10ll , 380, 78 aneiond (360) V30 & weed the entire mile, 1659 100 N 1000WS & cor 16. large outerop of grandow : 1661 1659 represents to north face from which it grades into 1660 ne 15-ropaces S, 1661 shows one of its weathering products, 6 non 1500 w secon 16 low outoup of greenstan 1669 1670

40 43 R. 31 T. 430 (465) 420 (450) (450) 21448 420 (450) (415) (420) 4308 ((440) 450 1 XXX (4 ros 4 35 420 (400) (430) 435 THE THE THE THE THEFT WHEN 410 (450) (410) 410. (400) 400 4 15 (460) 411 (460) 166 BW. 411,74 394.45 Bul. 166 Weighth quarterhim 160 168 166

41 Brung south on quartisting of 8/ 65) 10,00 10008 (400) Spuce swamp. 10,40 15508 Supply road (under construction) 50 from Sagola - Manifules 49 855 (400) Shirely terchlin stolahe Bell 411,74 annoy (460) V 3° W € - 10005. 13° € - 1700 U 4030' € - Fenchline Rung north on west eight of 21.
But 394, 75 anewid 395 0= 78.98 11,30 580 n supply (town) wad. 1000m (4 ro) muxed turber - hardwood 12,30 ross i no line found. It may have believe vachoutop of hill but doubt it. 460) 4.60) 1667. 1890 n 10 row Secon 11 large outerop of griendon Moon lorow se cort/ " " " 1663 175 n 1575 w 52 corn " " " " " 1664 700 m 1000 82 corr, low " " 1665 Soon 1500 W secores " " " " 1200 x 1500 w 52 com. " " " " " 1667 1668 1650 n 1500 Secors 1 " " " " Outerof of greenslow 2000 1500 W.



Hor 7th Fair Kum y south on earthing of 17. BM 393 90. Ameroid (395) 0=18.94 . VINSE 7.00 The hardwood was poor, The yeared Tunber has a little good hemlost Mixed with it 1000 5. muxed tunber (450) 50 E. 8.50 12335, V 45'E, 12708 V160W 13008, VN'W, 13605 V20E 14505 J3045'E. 15405 Tros. 17205 8015'E. 1986 & stuck relemedate lim at com 100 W Secor 8. high outerop of greenston. -/671 17302 SECONTY " " coarse grained greeneton 1672 1673 1360n 28corl): " " " " 1180 x Secor17 " " " " " 1674 875 u seccosi) low " " . 1675 1676 730 n secor17 " " 1677 11 11 1 11 1678 11 21 4 " 1679 no restronty lugh. 1680 h ce 4



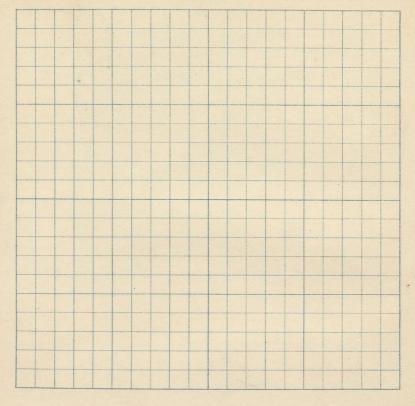
(400) Mighed growth - V302 G. 50 6005 V 70151E, 1000 SV 503018 (440) just out of swamp into clashy to muxed trusher. 10, 20 1996 S Struck brushlin at comer 11:5 \$ 16 81 1730 u secor so outcrop of coarse grand greenta 1000 USEcorro " " " " " " 1687 1683 600 n Secor 20 " " " " " " 60) 1684 at St corro " " " " " " " soowsecorso " " " 150) 1685 soow Secorco " " " " " 1686

46

S.

T.

R.



16 16 16

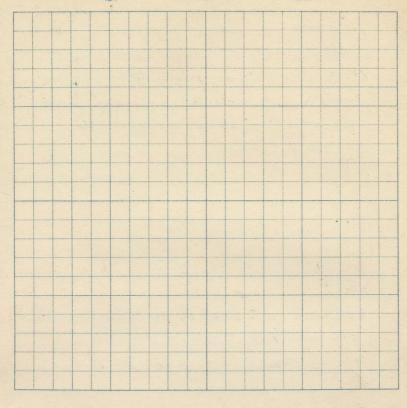
Rung north on east eighth of 20 (plotting on page 44) VIOE
Bul 457.15 annoid (450) 0= 18.85' 120 Bunt runged growth no good, 1000 n (410) mixed growth poor 15,00 1400 n (350) rengfair cedar growth 16582 (350) 0 FOE, 400/2 stuck retermediate line at /8/40 450n 500 w Secorro high outerop of 16.87 coarse grand greenstone. 1688 7 20 2 500 W = E corto large outerof y grand 1689 970 n 485 w 8 2 corro outerop of grante 1690 11252 500W SECOTED 1691 1800 U 500WERCOV 20

48

S.

T.

R.



1

16

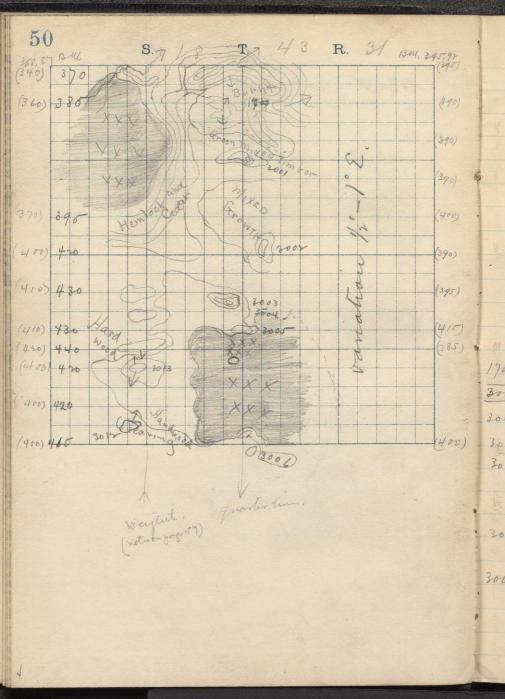
18

16

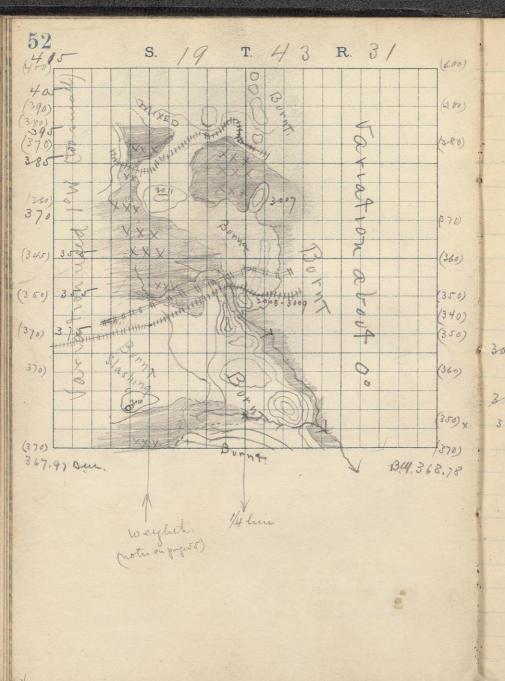
1.6

169

(Plotting for page 47)
7412 N 3030'E 1000 n (440) mixed tunber 240 2003 n (410) stuck benchling / 3thestate (B.M. 441.16 Queroid (410) 3.30 1698 240 n 500 W secor/ 7 outerop of greenston with small arich of frynte 470 n 500 w Secor 17 outerof of greaton. 1/693 80021500WS2cor17 11 "11 "11 1694 very coarse grained , with much hourtlevel. Time gravied homblevel (915 n 500 W)
11 35 n 490 w outerof of exceedingly 1890 1696 coarse greenston 1697 1340 n 500 W - greenslown. 1640 n 500 w - coarse grained greenston 1800 soon- greenston.



Hor & Cloudy Running south our quarterlun of 18. BML. 1395. 97 annoid (395) 0= 28.800' 7.45 Mexed brunt tunber. 1000 \$ (390) Turked turker shirt swamp. 8,00 19965 strick intermediate him of 1/4 stake 1700 1800 m 1000 w Secor 18, outer poj greenston. 1530 x 100 w 3200113 outerop of nodulargremetoni. 3001 1100 re 900 w secor 18 " " amydaloidol g. 3002 760 n 1000 w secor 18 outerp of any falordal guesta (0 3003 3004 our scheston + the other marion. They he side by side and apparently pars one who the lotter 600 n 1000 w. SEcor 18 outerp of any flatoidal 3005 Cremston. 3006 any godaloided greenstone.



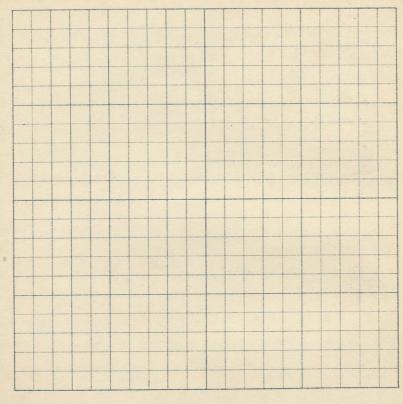
Ameroid (400) 365-4008 supplyroad. 1050 s. R. R. trach. (360) 11755. Lown wad, 0) 19818, shuch pendeline at /4 state. B.M. 368,78. Queroid (371) 10) 3007 1300 r 1000 to SE cor 19, banded grewtone Stule of bands NTS dip 76° W, 770 n 1000 w Scar 19, grandone, anygdolodo 3008 and brecaled? with large secretions or 9 x 3 009 bodies of cherty quartrite. (0)

54

S.

T.

R.



30

20

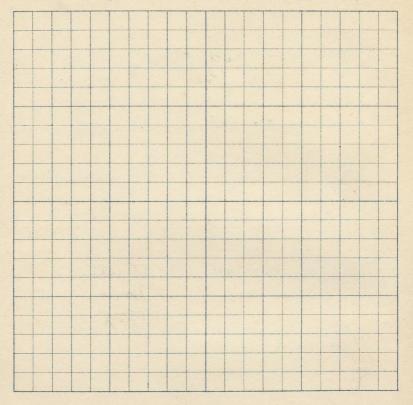
(plotting fage or) Bul. 367,97 aneroid(370) 0= 28.86' 11.20 Cedar Ewamp, 630 n Town road, (370) 745 n R.R. 1000 x cedar spiner + lamarach swamp 15% 1447 n supply road 2016 n(400) stuck relemedatelus 95 woy /8 stake 3010 room 16 NW Se cor 19. outer of greenstone breacie. 3011 1275n 1500 Seconty " " "

56

S.

T.

R.



30,

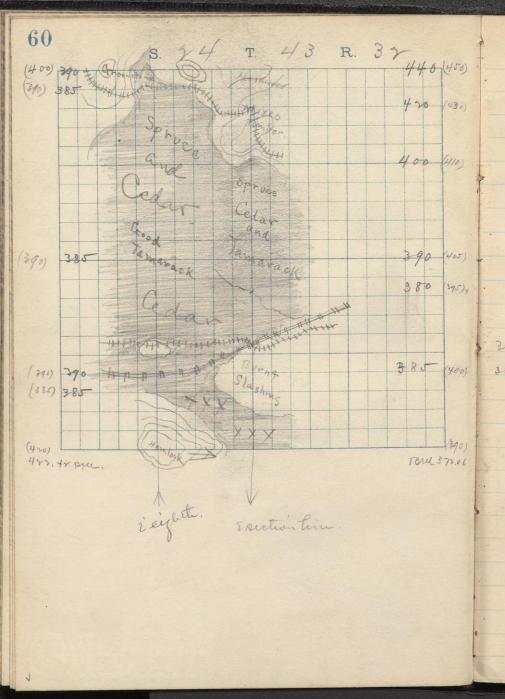
3013

2016

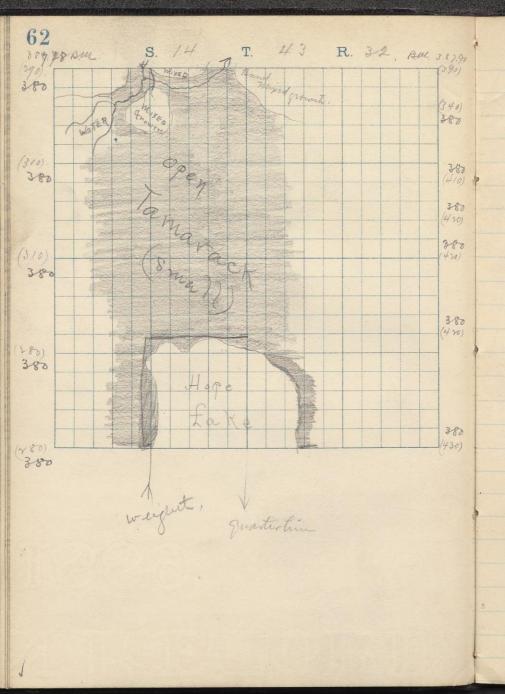
Runn north on westergeth of 18, amounted to cleany. (plotting on page to) 1000 in (400) fair-good hardwood 1.25 2007 2 (340) Bul, 368.87 Queroid (340) 7.5 30/4 130 re 15 25 w secor 18. Quiterop of greenton (pseudo-conformente) or breesia 400 n 1500 wscar 18. outerop of greenstone 3013 1900 n 1500 secr18 " "

5.8 3 84.8 × 13.04 s. / 3 T. 43 R. 32 383.13 (380) 385 (070)x 1400) -(380) (420) 405 (400) MIXED GTOWTH (410) 395 Hora wood 1400) 390 701 Bunn 10 75 3018 445 (450) 30 440 (445) (400) 390 440 (450) 3 o eight. E section line

Horge Cloudy, Rum pout ou east line 9/3 (43-34) fact range line. BUL. 383, 13 aneroid (380) 0=29.00' 8,45 Cedar swamp, large variations local, 80) 1000 & (420) fair hemlack growth 9.40 2000 8 (450) found intermediate line at convertige Thung north on cast expeth of 13, (43-32) BUL. 384.87 Quevid (400) 3,10 50) 14 ron secor13 outcrop of greenstone. 3015 30/6 pseudo.com 3017 770 21 8 Ecor13 ". took Secor13 11 11 2018 3019 500 n 82 cor 13 doo re St cort3 higher " \$ 2000 3073 grow seor 13 \ Lt 3044 room 700 W SECON 13" " 1770n 500 W SECON 13, 3044 3078 The wild closes result from Jablong the direction to me even through variation country whether pair or cloudy



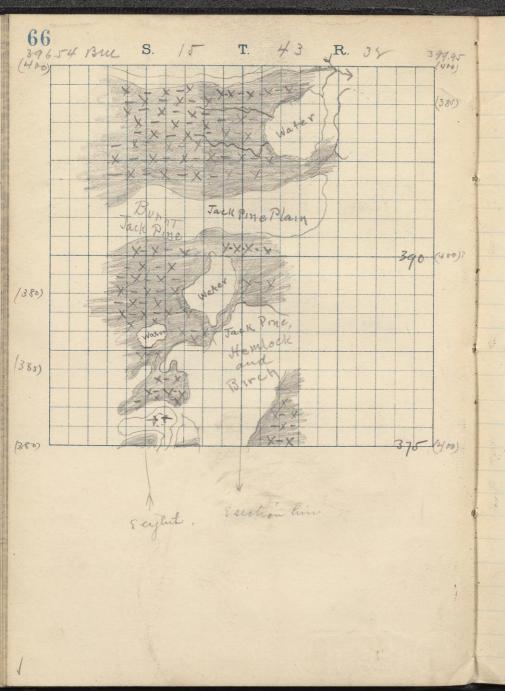
Rung south on east ling 24 (43-37) (East rangeline, 10,20 Hardwood, 10005 (405) Spine cedar + tamarach swamp. 11,10 14xx R.R. + Journ wad crossy 20048 (390) stuck beneliu alcomer. Bell. 372,06 annoid (290) Thung north on & eight of 74 (48-37), But. 42. 12.15 (000 m (290) of 1/8 stake. 1.50
10 60 u secor 24 outerop of greenstombreecia.
160 w secor 24 " " " " 30 77



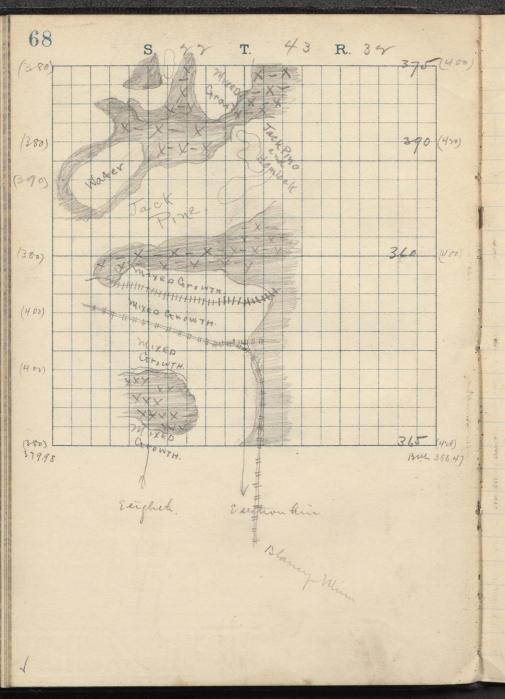
Nov. 10th Cloudy. 63 7.90 Rung south on quarterline of 14. BML 387.90 Comoid (390) 0 - 28.82. Bund mixed second growth 10005 (400) open tomarach. 9.00 9.30 20038(430) " Rung north on west eight of 12. Open tomorach altitu way, closed at 80 BUE. 387. 48 annoid (290) I have interpolated according to my judgement. Quested # 9 was used. 80

64 23 T. 43 R. 34 380 S. (380) (430) Hopefake 380 380 380 (340) 360 (330) 380 M V E D THINK THE THE 300 Small W. W. (350) V 11 1/11/11 Jamana 380 383 380) 383,7 rous Greathrhin w eight

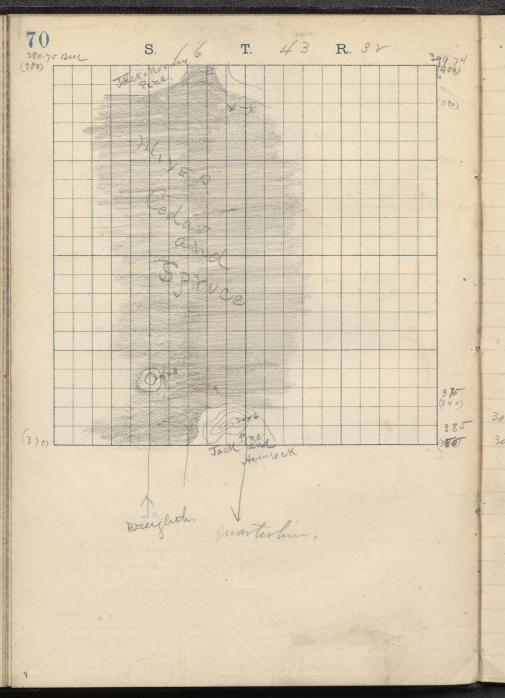
Rung south on quartirhin of 14. Open tamarach enamp all The way, 19768 346) struck hendling 87 w of 1/4 state BUL, 383,00 anerond (340) 11.00 Bul. 38/3. 72. Queroid (300). Open tawarach almost all the way soon (no line)



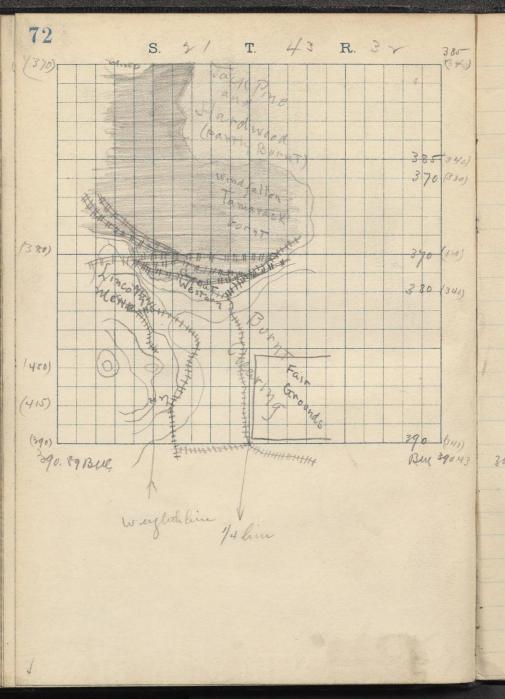
Nov. 10th. Cloudy. Puring south on east section him Bul 3 995 Queroid (400) 7. 40 1000 5(400) open tamarach 8,05 8.20 200 1 3 [400] minged low tand growth struck netermediate him at comer Rivery north on east eighth of 15, 11,5 1000 x tamarach swamp BUL 396,74 amoid (400) 12.15



Run g wfr (43-34) 1000 \$, (400) open tamarach 8,50 12558 town road, P.R. 1475+15005. 20 \$ 05 stuck benchine so wo of comer. Bell 386.49 Accord (400) 9 30 Rue 3 / 9, 98 annoid (300) 0= 28.92 9.50 Wixed growth. 660 n (100) R.R. 810 n. town road. 1000 u (380) open tamarach swamp. 10,45 yooon (380) found no line so contined north



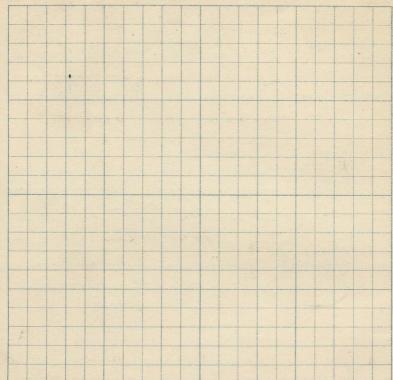
Nov. 11. Snowing 16 (43-39) / south on quartirling Bill 399.74 aneroid (400) 0= 48.74 8.30 Tack pure starre. 10008 Stedar + lamarach statute. 20018 stuck lumbermans the Tack pur flaire. 9.00 no line, Rung west eight of 16. 350m 1500w secorth outerpoly greenton 30 26 85 3028 0



Partially burnt fach pine & hardwood, 1000 s would fallen taluarach partly trunk. 2000 struck buchling at /4.
Bell, 390.43 anewid (340) 10,30 30) Bell of o 89. Queroid (290) 0= 20805 Bunkcleaning. our line. (found rivers stake) rrsnysrow outcrop of slate no bedding madeout

74

S. T. R.

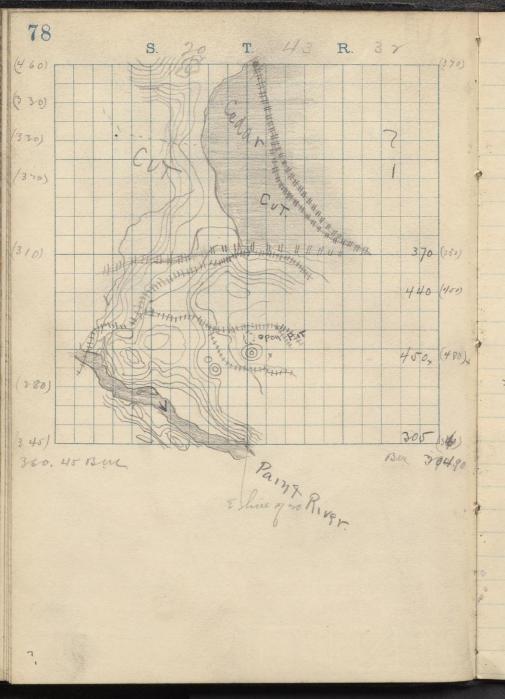


From what I could pick up I should finder the visitors report to have a fair flavor of hould.

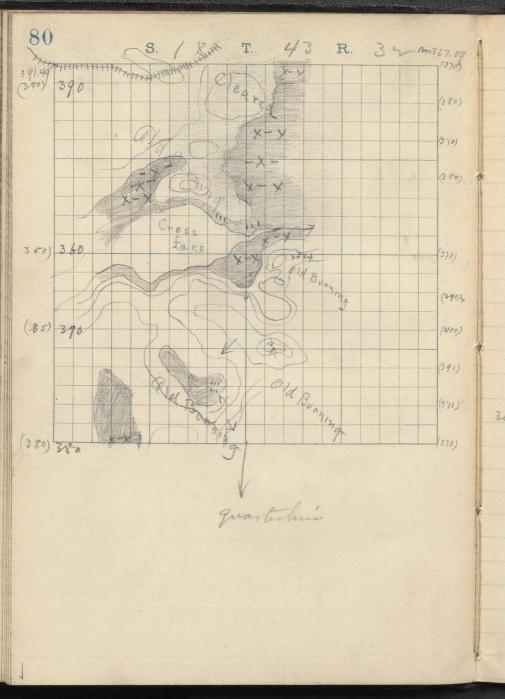
Great Western Mine, us g Swog 275 Footwall is a landed slate quarterty, vertical shappy, general 8 levels, 4 roff lowest, holding the same per Irras not allowed to go uto this num and the impression received was that The less I knew about the mine the better it pleased the captain. Ite toldine however that there was no regular formation 12 neither foot or tranging wall and no large deposit of ore, what ore there is occurs in small pockets in quarte or quartreti" or in a bandled slate quartite The shaft is vertical and is such in the centre of the wass of pochets and therefore the succession of rochs is unberoson, Circuston was found by me 1/2 mile north + 300 & of win also 1400 paces due north of mino) State outerops between Great Westing + Pariet River Mine also back of GW, (is sound The run is considered to be a very wet num The refusal to allow my visiting the diffs arose from the fact that some visitors had said the one was giving out.

76 375.20 BUL, R. S. 7 (380) (370) (360) (380) (360) (370) non way (320) (380) norwas (370) (390) (390) (380) Talley Elin 9 17

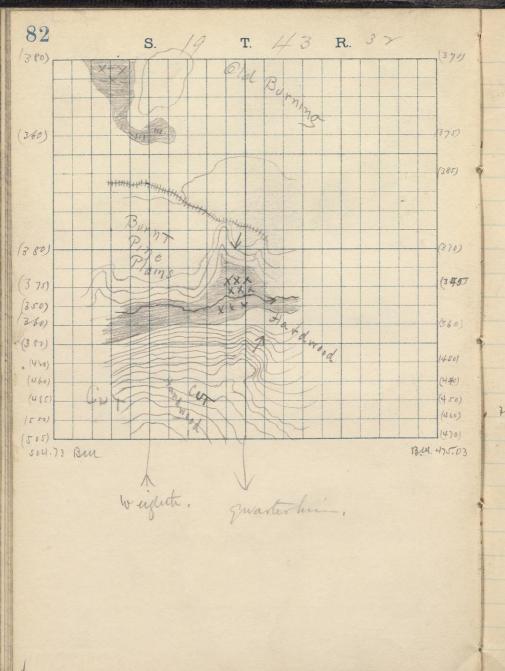
Nov.14 Cloudy, 77 Run south on east line of 17 (43-35) BM 387.88 aneroid (200) 8= 19.71 7.45 Bound slashing. nov - 900 s very thick young cedar swamp. windfallen (good time brack of logging road in try) 10008 you noway (360) 18755 struck interluedate line 20 wg corner. Court have dropped a hewdred in last half with (Essel mung him) 8,30 BUL. 3 75. 30 Queroid (380) mixed swamp 1000 s your nouvay (370) 9.00 2006 8 struck lumbermans state 10,00 (850) 2500 secon of greenslove 670 12 500 WS2cor17 " " Plate. 3030 300 no oo Warlor 17 " 3-031 " grenton 500 W SE CON SECONIZ " 3034



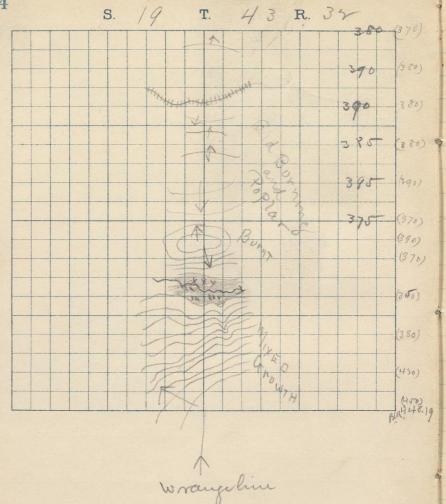
Pring south on east line of ro (40-37) 9758 R.R. (380) 1000 8(380) cleared land 9.15 19705. (360) Paint Perer, Bell on other riche BML, 304.90 amoid (360) Run source on easterflick of 20, anist turber, 10265 (310) 1600 8 (200) struck the Paint River. 1814 8 (245) struck benefiting at 1/8 BUL 360. 45 arerord(3 45) 11,45 3033 1685 n 500 w Secor 20 outerof of greenston as to have the country surface to the accountry ready pharmonia in the least.



nov 13th Cloudy. Bell. 3/67.09 anevoid (370)0=29,34' 7.20 Bunt cleany. 1000s tamarach swamp. 2000 8 (870) Old burning , young growth 8,20 Run north on west eighth of 18. Amount (380) Brend pine planes 1000 835 n Lahe (350) Bul 3 91,49 aneroid (3 80) 3034 1050 u 850 w Secos 18 reletof of green tour



Runing south on greatestin of 19. annoist 3,70) Old burn, 1000 5 (3.70) Old but plashing 8,45 1995 (470) struck hendeline v3 woj/4 statu Bul. 475.03 aneword (470) 9.10 Run , north on each eight of 19. BUL 504,73 ancroid(505) 0= 29.3 de 9.30 1000 21(380) bunt pur pland 9.58 soon(800) but pin plans 1000 1370 w Secor 19 outerop opelate trending



Run month on west line 43-32 frest range line. Bul. 448.19 ameroid (450) Wixed growth. 1000 n (370) bund mixed growth 2000 mf 870) "

86 S. 1 P T. 48 R. 32 Benny 375 (355) 390 (375) 36-3 (350) 385 370) BUNNT

Wrangeline

13-34 (west range line). aneroid (370) 1908 n (370) struck benchline rozy L.S.S. Bell 392.72 annoid (370) 3,00 north on our own line. Finis 1891

Blank Pages

88-117

Skipped

