

Township 46 north, ranges 32 and 33 west, specimens 30264-30281. No. 242 [1891]

Kelly, Fred T. [s.l.]: [s.n.], [1891]

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LAKE SUPERIOR SURVEY

ANALY. 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 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 kench-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. 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 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.

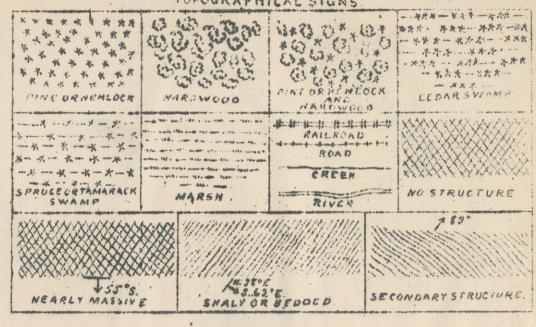
Denote the ledges of rock, when no structure is made out, by cross-hatching, making the cross-hatching cover as nearly as possible the areas occupied by the exposures. If the rock is a massive one, but still more or less plainly bedded, use the same sign with a dip arrow and number attached, showing 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 $2x2\frac{1}{3}x\frac{3}{4}$ 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.

"TUPOGRAPHICAL SIGNS.



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						
	Subtr	act from	watch	time.							
17-21	1	22-26	2	27-31	3						
JULY.											
	Subtr	act from	watch	time.							
1-6				14-31	6						
AUGUST.											
	Subtr	act from	watch.	time.							
1-7		8-13			4						
19-23	3	24-26	2	27-29	i						
30-31	0										

アルス

SEPTEMBER.

0

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							
					1					
		OCTO	OCTOBER							
		Add to wa	Add to watch time.							
1	10	2-4	11		5-8	12				
9-12	13	13-16	14		17-22	15				
23-31	16									
					*					
		NOVEN	NOVEMBER							
		Add to wa	atch	time.						
1-13	16	14-19	15		20-23	14				
24-26	13	27-29	12		30	11				

No. 4 Fred T Kelly Trank Hason, compassingen SPECIMENS, 264-281 46-33 46-32 NOTE: 263 uno suppet.

2 S. 2-7 T. 146 R.3 630 x at 10:35 aneroid 20 ft too high Checks from others: 11:55, 3, oft higher 1:30,50 It ligher No compassion rain alone

averand at BM (667.21)

4 S.34 R. 33 144 x raine 619 (\$ 75/X 268. 1110 N 1000E by mosture as it was moist / place. 260 partly fund timber 020 reach line at stake sun seen stake 4 ancid 57

wood aneroid you good hard v 7° eart 1900 N 865 N, of 8, E cor sec 34-46-264 a large ledge at the brow of a hill Land slopes from it & SE a second ledge of same kind about so paces Ser of it 1875 N 924. Wof & 8 cord sec 34 -46-33 Strike N 80 M det N78 Not a very large ledge purhap 160 sq. Sty of exposure So hunth hirathered that it was diffe out to get a specimen 1 266 1200 N. 940 WoT/ S. E. Cor Sec 34.4683 ared with blebs and dikes at & termination of ledge described above Strike Nyof east dely 480 Very shale Portions contain much him contact with Ao 266 11:35

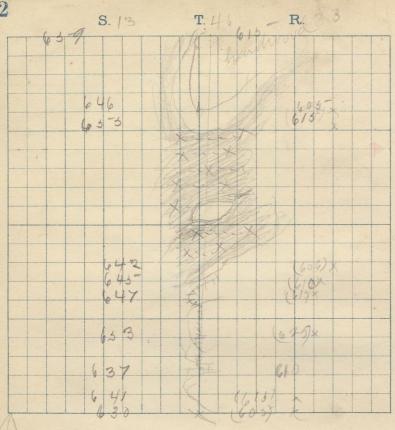
6 S. 34 609 548 the hoggetation, hence consider-No compassman ran about

Set aneroid at BM (396,73) and start north in pine chopping and burning V 5 VV, 1200 enter of dar + tam owners 1460 03 tipo enter partly buried hara word with a few shance & hait 1875 N 500 Not S. E. Cor sec 34 270 Strike N 32° & dep N 83° Expo. sure extending westward for ken and having numerous did not succeed in suc mg this new but did I sun and old north cross the

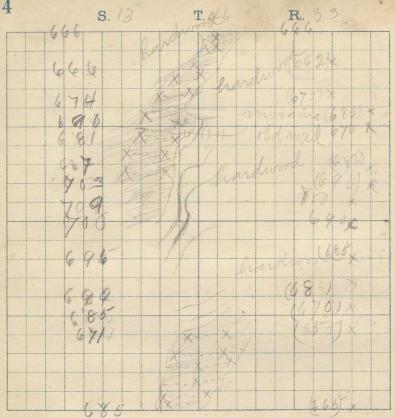
Isvod hardwid imable lordi) green V.4º Hast 1000 N3 east 1160 road 1200 Hardwood mable of birch with some hen lock of soal tering himes, some of the latter 2 bring blopped Reach line 125 steps swest of Le stake aneroid 683 at 130 670. BM 6 36,92 abs 28140

10 S. 24 T. 44 R. 3 3 XX XXX No compassman ran about

11 Set aneroid at B. M. 384.64) 9:00 abs 28,200 pine burning als 28,250 120 marsh near tereels 130 creek 275 burnt cedas swawf 7 40 mach stream 2000 reach line 4 to of stake aneroid (600)



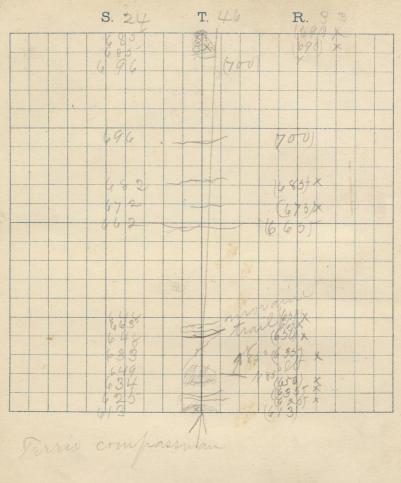
13. 11:00 300 green hardwood (her god enter tam arack swamy eroid (6.16) B /16629 also 28210



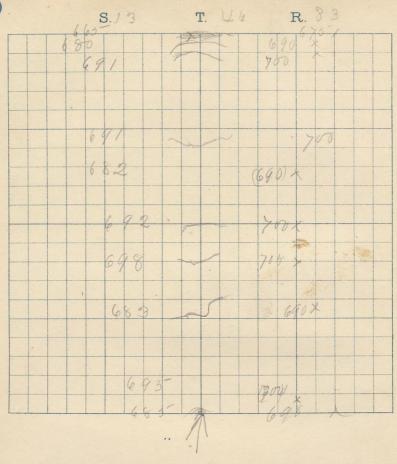
No compassman van alme

Set averaid at 666 B.M. 66993

when Jar hard ameroid 465 200 N 30 enst 375 tomarrow warm hyprod + hemlock 900 Pine cloopping with hard wood burnt functioccasional of stake arrived 580 B 11623



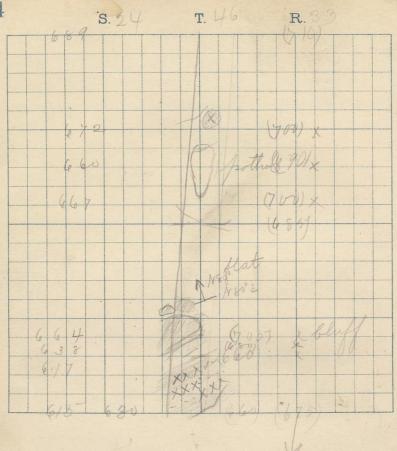
Set aneroid at 6/3 7BM6/6/688 in tamarack swamp v 45 21. So north sti 28280 840 160 N 1000 M of & E corsec 24 46-33. Strike N 85° ON dip N 85° Ledge much feroken perhaps 150 Maces east and west rock very hard dike of white quark extens und X15 E diffe about 4 or & hiches 337 trail, hardwood fair 9:20 1300 hemlock + harder Do Dy reach line 75 east



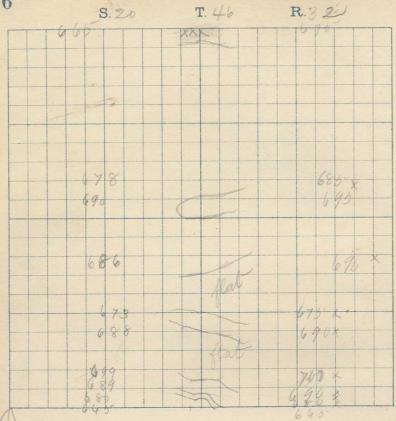
post ameroid 690 edge of ground unmediately enter hemlock good some small hardworld i by dial 4° ea 1000 A face prices others as Valore, 9:03 1230 Glod maple with a buch 2000 reach fing at stake anerold 675. (corrected) B.M 668.73) 665 als 128,185+

s.13 T. 46 R. 23 (1995)

Set aneroid at 67 1 8 BM (167421) 676 So south it, plat variation cloudy aby 28,180 Fair hardwood with 0,13 5 290 edger swamp for edge fredar + lamarack swamp fair haddwood with scattering 600 N/ east a feat hembech 10 \$ 5 tamprack mamp v 50 east 1000 small hardword sphice 1500 V 12 east Good mable + buch 11:13 with some humbook 1871 Tam swam 1930 hardwood 2000 reach line 115 princes



Continue south from to mile post aneroid 710 food hardwood I hemlock of 650 east 1000 hardwood smaller with puri choppings 50 5-201 30 9 1 Sp cor of sec 24-46-33 Strike Ar Start dip Or 80° songlow eratic exposure soming an uregular mound the blebs are grute numerous in parts: in a few places there are small 1600 and ther ledge of same kind 17 or cidar swamp of slave aneroid in swamp 660 at stake 67 50 2 8.175 BM (6 34.9/163) 26



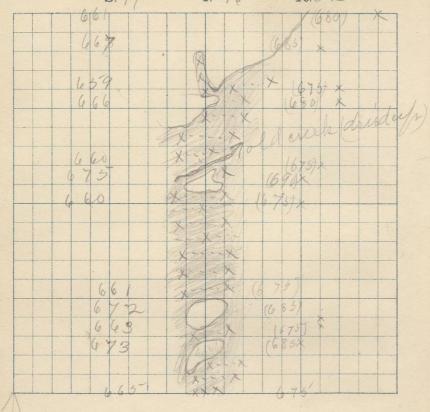
Ar Nason compassman

Start worth in good hardwood Set aneroid at 665 BM 66 8.70 v 3° east als 28.165 1100 hardwood & June grule good with a few bremlocks 28

S. 17

T. 46

R.3 2



29 Continue north from sec cor, mile Jost aneroid 675 in cedar swamp 75 paces Samarack owarmy 9:10 173 frine spruce + hardwood o 3° east 340 hardwood ofmice & balsan 300 tamarack swamp sprice + Mardiovid 950 1/225 old creek channel drugt 1500 small kaidwood & buil 2010 reach line at stake aneroid .680 (corrected for 4ft) BM 16648 5) 6.61

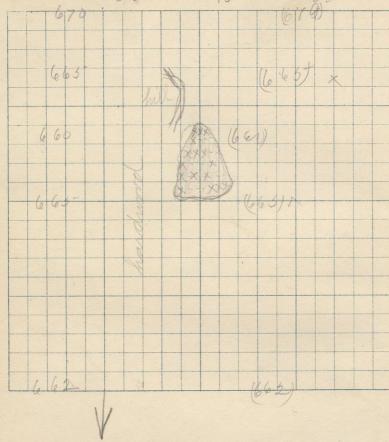
T. Herek almitary east of BM S. 17 (653) X

Start south from 1/2 B.M. set aneroid at 649 BM 63271 649) abs 28.145 thicket at edge of swam to east love pine west ve east 1833 30 lamarack swam 75 drug up creek channel 275 Good fine with swall 576 tamarack mua leve hadwood spruce + pine rather small 800 fair hardwood with a price + a Celte from. 950 Good frie + hardwood 110 1200 Hardwood good with 1700 some hembook other was 1842 Color tlamarack swamp aneroid 680 at state 695 12:48

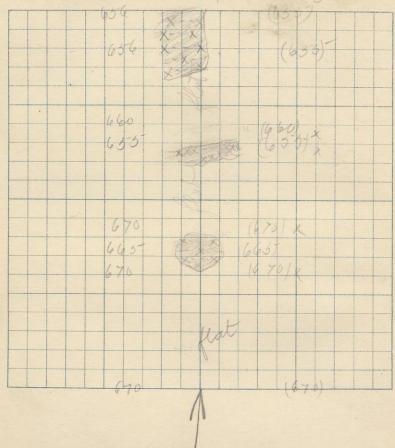
S. 20

T. 46

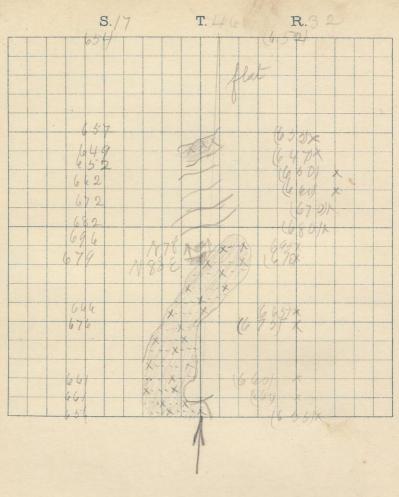
R. 32



Continue south from to mile post aneroid 675 Jan hardwood 11:45 a four prived or o End and lamarack swamp 980 food maple of birch with afen no reach line 10 steps east g state abs 28130 12:30 aneroid 662 BM 66576 662



35 Set ameroid at 679 1316 67425 300 scattering fries with hardwood gold 625 cuter lamarack swamps x 35 sord hardwood with spruce and a few frines 1175 enter cedar swamp 1290 fair transword & have 1980 reach lime at & Jost



leontime north from & mule port aneroid 635 tamarack swam \$40 go small hardword print & spring witha four hendrocks go four hardwood with some 820 NO000 D of SEcor of see 17 4632 Strike 1 N800 8 /slep 178 Jedge at border of tamarack swamp extending east & west Sollowed about top paces some overlain by randy soil 10/13 gov another Jedge (shell of same 1375 cidar swarmfr 1 1550 Good hardwood about 2/ of cor and cor his tamy (657.66) abs 28, 3.15 /05 5

38 S. 17 T. 46 R. 82

Set aneroid at & BM at 648 BM(65/88) 648 abs 28320 tering pines v, 0° 11 10 200 Cidar of tamarack rivary 300 small hardwood worth Giardwood 2749 20 N.5/5 W. of S.E. cor of sec. 74 44 32 Strike ON6494 dely N80 Ledge about 120 paces long extending 930.1330 VIST XE, cor, sec. 17-46 32 Strike N/15 W de/s 750 Near west end of above ledge; rock very hard difficult to get a specimen 12:00 1250 cedar awareh 2010 reach limes 25 Thindely went of

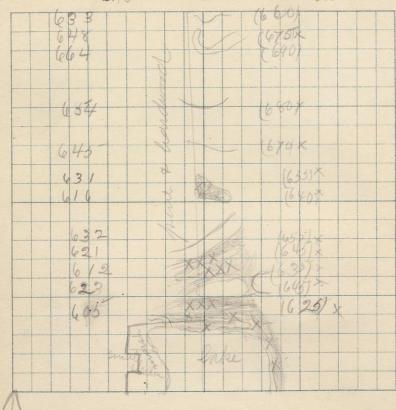
Continue south from & mule post aneroad 665' of trained in the morning only line Geroft har dword with scattering 1875 swamp (tamarack) 10 25 hardwood good with 290the yach line 120 paces word BM672.76 669

42 T.46 R.3 2 S. 22 640 633 277 10 N 235 N of & E cor of sic 21 46-30 Strike 180 of dip Noto Ledge crosses line (East + west), is about 75 or 80 paces long and is not much wrathered but corpred largely with there

Set aneroid at 632 B. M. 6653,39 652 abs 28,445° v. 30 east Start north in good hardroad 7:50 225 1000 A of 28 con see 22-41-32 Striker 759 Odep Ny 8 Ledge about 2 ft high at edge of a slight elevation rock very hard but us dikes inselle 8:18 300 Some pines with the hardwar 700 N 20 91 1 SE cor sec 21-4632 279 Strike 1773° M difr N 85° Led an wegular mound about 15 Al aboto surrounding country Hard to get a representatily speaker 912 outer of with same sock as in 274 20 paclesvustako 1500 lake make offset around

T. 46

R. 32



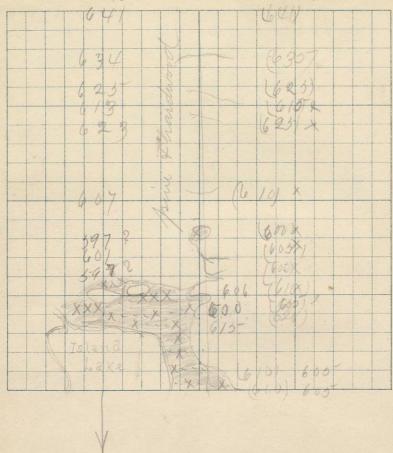
miletin 45 leontinue northy from & west of lake 2 20 paces from cor suberord 6 30 100 north start east West 3-0 paces north 150 + East 400 north again at 10 to swam paranack 1976 reach and 75 paces of posts aneroid Eles BMG alls 28430 ::

46

S./3

T. 46

R. 32



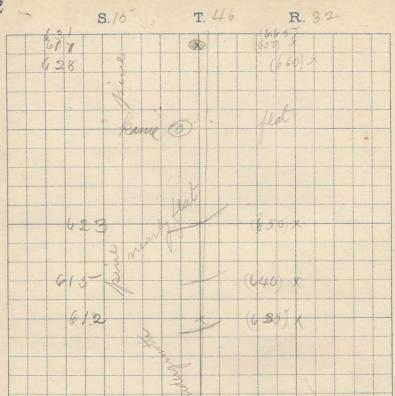
Set aneroid at 641 along M. 645.73 abs 28415 18 east in fair hardwood + fine 12:00 340 small hardwood & spruse 150 5 about forme + 1 small handwood 1150 lamarack rivant 1200 to frine 2 transword + 2 frie spruce of pun 20/3 reach line 20 Knees cars

48 S.22 T. 46 R. 32 Islan. 608 280 (6 23/K 6/6 NB. Phi middle line of maps Thows the line followed we the eighth line

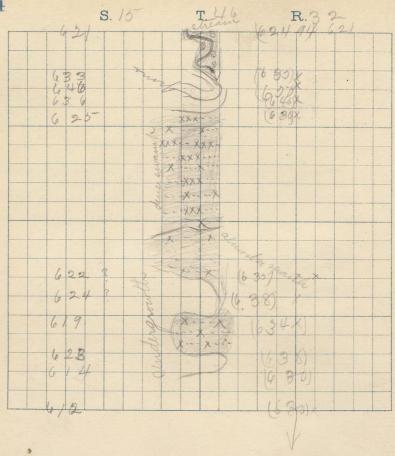
Continue south from of mile stake is used a east cloudy lake lake tevrel 603 775 at south border of lake Small hardwood Ospruce and 1033- N 1526 W of SE cer See 22-46 1280 82 Strike 1 35° W difs 1 85 Idge part of ridge very much in appearance do a morans exposure for 60 or 70 pass frights about 15 1825 good hardwood with 962 reach line at stake arresides BM625.44 Cabo 28.435

50 T. 46 S. 22 R. 32 604 (AB)X 609 10) 16 Alle line proof blased took a long time to find it. hence large correction

Set aneroid at 618 418 MG 29, 71/als 28418 Start north v 3 east Fair franchisch + sprice with scattering prices 7:43 30 redak y lamarack swamp 340 fair hardwood + spruce with scattering fruits 765 N 10/5 9/ 5/8 Ecor of see 22-46 281 -32 Strike N63 Vr. dep 85.0 Lidge about 50 packs long and about bory It high forming 10 30 swarp at edge of stream 106 2 stream 1320 frine + undergrowth 8,50 940 Javot outroid 620



frost aneroid 620 14 mile Andergrowth v. 30 swest 130 sprice + balsam (small) with occasional prines 500 N3 east 700 frime white sprince of stud 900 Good fine with a small of small hardinoul 1950 tamprack swamp 1975 reach line 45 paces east of stalse, aneroid 665 abs 2034 \$ MG 34.65 631



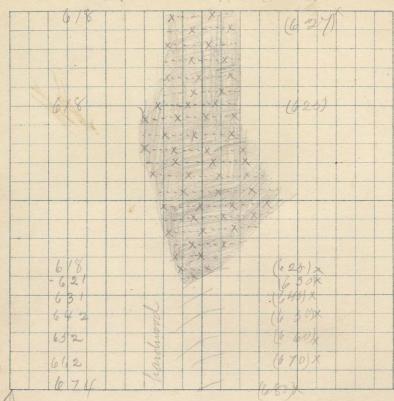
Set ameroid at 621 BM 62494 als 28,350 or 50 east start south in alder swainf 11:05 25 stream 200 lsood of un 400 small spruce & franchivol with scattering fruits 425 cedar & thmarack swamp 1030 partly open swamp or marsh 1500 lamarack many

T. 46 S. 28 R.32 (6 8 9) (B35)X (6.4 gx 6 15 2 ** ** ** (6/20) ? (6/6) ** (6/6) ** XXX (600) 615 422 1660 XXX

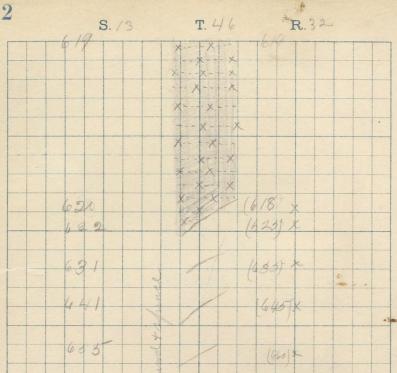
lantimur south from to mile front sam spriet + firely \$13 # east 12:10 3 sotamarack swamp 550 Good frine with small showe + hardwood. W/15 alder swamp 746 reach stream 780 ginte good fine will a little hardword goo Jair hardwood with as 975 Thinarack swamp of state aneroid 655 13 M (61840) Daly 28,3/3

58 T. 46 R.3 2 S. 24 The readings given for this mile seem to me to be too high taking into consideraslope was scarcely the anested and starting the medle read file asserved. I gher necessitating the

Sal ameroid at 635 3 same as protast abs 28535 in quite good hardwood may 1000 Life Clous variation of 11° shows a variation of 13° last 1600 v. 6° east 10 8tels further south but no stake found for so spaces on either sia



61 leviting north from sec cor gueroid 680 Ishol & mable and burch with a little basswood 840 1400 fair maple buch + spruce 600 Mariarack swarps 725 is by line (no deal) He east \$73 obsent tamarack swamp 1537 wby line 18 east 1828 reach line at cor post averad (627) " BM621.71 618 abs 28540. lear prist of old survey Line at B. M. shows a variation of Bens Later the party running the 1/2 line west of the section fine says the old survey Hime is at least 100 paces with,



· Ciar

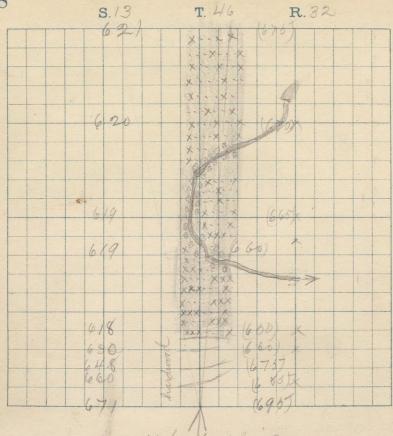
Set ameroid at 1/2 BM at 4/9 B.M. 42268 abs 28626 N Beast and To south in tamarack swamp 9000 940 small spruce balsan & birch with occasional prinis 1030 Fair maple of buch with a lettle bassind good + spring + so attering how soused, 50 dast, in dial 10:15 1300 Sofod maple of birch with some good basswood 1885 reach mile line go paces east of & mile stake. aneroud 665

64 (665) R32 T. 46 S. 24 1660 Through a missenderstanding of the compassman on the last hable the variation used was 50 or the average variation taking into account and wast cetter lines mustead of this going north. The dials were tak by its action that magnitic disturbance throughout the buile

Aug 31 levertime south from & mule frost ancroid at 665 In good mable + birch with a little basswood. 1000 N 3° east used. 1300 Timber as before with occasion 1976 reach line 2 go paces west of 4 stake aneroid at stake 655. but bout where line was reached also 635 abs 28,476 BM (643,36) 642

66 S.24 R. 32 6/6 (650)X 683 Clobox · N. B. The variations are not all reliable Muroughout the day's run, (the four plats I.e. this and I the three succeed fing ones) as the degree eincle was loose was not noticed until the close the day's run. This also accounts for the difficulty in lin

Let ancived at 45 \$ 4BM 656.01 als 289 start north in good hardy (maple, & birch with some basswed) N. 220 M. 140 N. 22° M. 600 N.19° My timber same as before 800 V. 7° Wheet only fair with a little of 1200 0.10 H Tumber of same kind as before justhout spruces but good 1400 014 W 1600 N.3001. 1860 tamarack + cedar swamp 2014 reach time 130 praces cast Ota searching for frost the old & surrey the post found still 313 places farther west but the L, 8 S. to host is stillabout 200 haces farther west

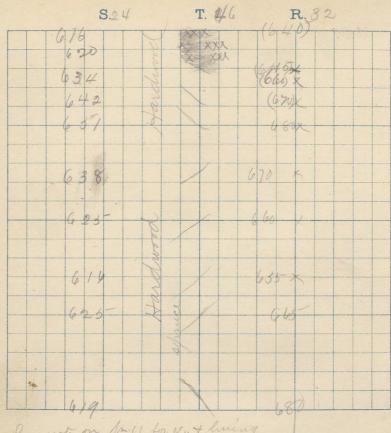


Der mote on spage 66 for V., + living

oldgoldt 69 levature north from he mule frost avervid 695 0 27 east 9:50 In wood mabile of buch with a little shouse & basswood 350 dedar + tamarack quant 500 NIB east The reach stream 1000 112° east Tamarack swam 10'40 1238 reach beaver dans In frost which is marked exact I do not know how to account for the great difference in as upon questioning the frassman I from the used variation than the dial gave aniroid 675 abs 28.330 variation at 4 stake 1° east 11,20 BM624.73) 621

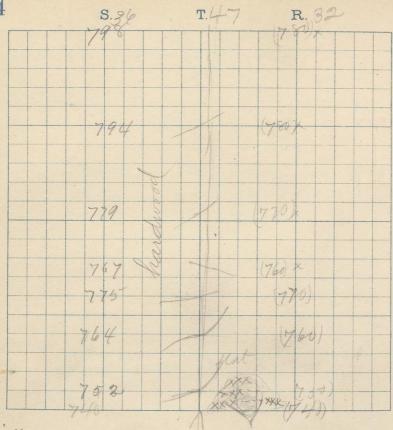
70 S. 13 T.46 R. 32 640x 6 20 640 ruce balsam & frine (648) otale See note on p. 66 for v., + lung

Set aneroid at 621, &B.M. 624,61 abs 283 20 v. 23/11 Start south in tamarack maint 215 reach la aver dam 350 V 78° W 678 Sprice + whites pure with balsan 1000 N 70 West 1050 tamarack mamp 13/2 reach stream 1425 Spruce & balsan 13 7 race line 103 paces west of testabe (?) aneroid at stable 643 Mon reaching line 655- 1:10



See note on fr. 66 for N., + living

Continue south from 10 mile post in redar & lamarack swamp aneroid at 646 Q 7° east 200 Fair hardwood with spruce 500 070 W Good hardwood 1,26 1000 v 29° W. Fair hardwood with spruce scattering formes 1132 0.110 01 1500 W 30 Dt reach line 147 baces west of & stake. Survoid whom reaching Mue 680 at stake (6 6 5) abs 28,2/20 B.M. (603.40) 619 V. at stake 70 Me 2:26



* *

Set aneroid at 7:40 78.16 74410 abo 2816var cloudy 50 Winsed to north in hair hardwood to spruce with scattering fines 700 O by dial 70 01. 800 fair mable + birch with a file good baswood toccusiona 1965 reach line 46 fraces east of stake 780.

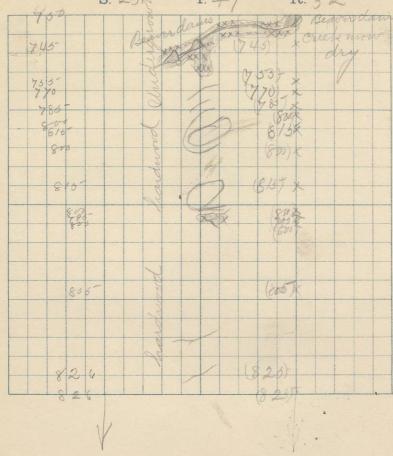
T. 4 Jana dan R. 32 S.23 (740) 3 790 17 63 x (760) 782 783 Thork

Continue north from 4 host aneroid att 680 Fair ma Horsel vyo Muse of cloude 9:45 515 tamarack swamp 660 poplar & hardwood hundergrowth 1180 tomarack swamp 1360, poplar, maple, birishe buch + sprice 1964 reach line at stake \$05 abs 28210 BM (745,3 7/74

S. 23

T. 47

R. 32

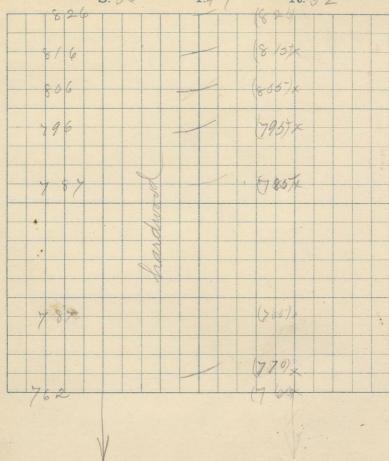


Set aneroid at 750 & M 75381 Start south in spruce & balsan un abo 2 81957 dergrowth with scattering small hardwood + white former 055° east 115 swamp edge of creek bottom 125 old braker dark 325 shruce + balacin undergrowth Good Small proplar maple and besch 1050 tamarack swamp 1435 Sair hardwood maple & bush 1956 reach line 55 ha

S.36

T.47

R.32

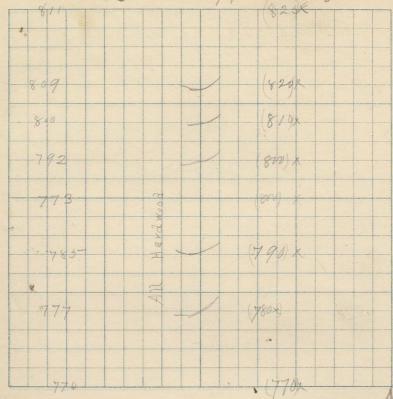


Continue south from & mile post anervid 825 fair hardwood NION 100 Good smaple & brick a Lun bassewoods 7/00 fair maple + brick a little bass 1600 11548 Of. Good har dwood with scallering Tute prines 1900 reach line about 13 traces B.765.72

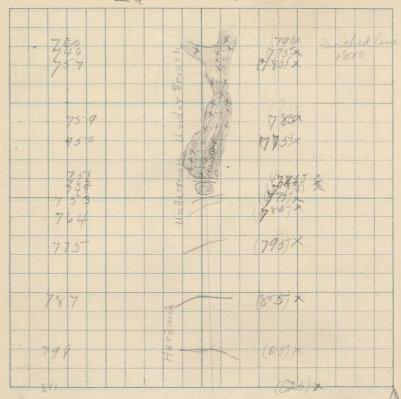
S.3/5

T.47

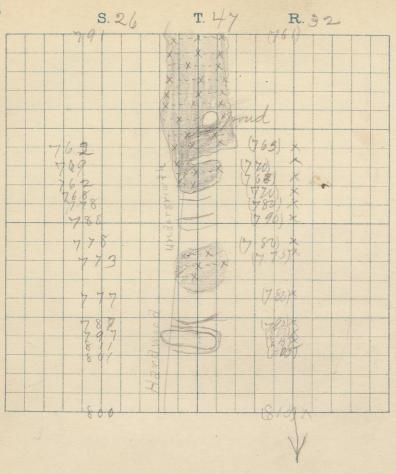
R. 32



Set aneroid at 770 or BM77357 abs 28360 Start north in good pardword (maple of birch) 013.0 Why dial 100 fair smaple + buch with a little bassersond (0 01. 3° W 1600 01 4° 0/ 8:30 1600 0 8° 01. 2000 reach line at corpost averad 820



Continue north from see cor anervid at 825). N 124 96 tain hardwood mable of buch with some basswood mostly att young | 9.26 625 Hardwood & Shruce mider growth you four mable buch & fassioned gov hundergrowth fine spruce chery dia 1000 v20 earts 1075 muder growth as before 1100 tamback & alder swamp 1300 Shruce balsam + berch un 1300 N 2 east 1800 markene 65- hace east of cor anervid 790 at edge of swamp absorbe vat post 3° east BM (764.18) 760



Set aneroid attoll &BM 7654 abs 28,335 V2° east Start south in tamorack swamp 645 hardwood undergrowth or 25" cart 675 lamarack rulembr 823 Old pine burning with prople spruce + buch undergrowth 1000 00 1140 tumarach swamp 1340 fair hardwood (maple & birch 134 0 14 4° cast bood maple & berch 1910 reach line 130 pales west of sport amercad 505 + 12/3

T. 47 R. 32 S.35 (810) (8/0) x 798 786

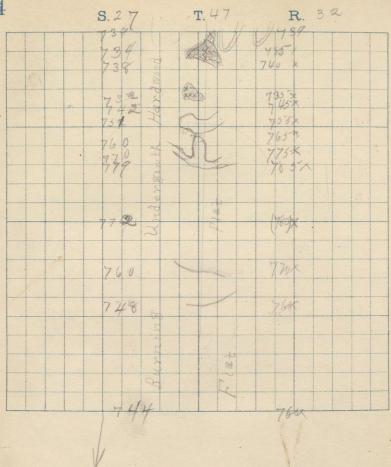
leoutinue south from & onle frust ameroid at 805 N 32° cast 12:20 Bood hardwood mable & birch with scattering punds 1000 N7º01. 1948 reach live Go paces east of & state aneroid 800 abs 28,260 Ov. at stake 9° W. B.M. 790.47

90 769 R. 32 S.34 · · 756 7 47 730 738 17 40 Y 748 (745 . 7 35 N.B. Two readings were taken in the rise of 15 ft at the same point. This was for the watake taken while looking

Set ameroid at 7.23 14BM, 7 26.68 als 28,320 NH east Iso morth in good hardwoods mable and brich with scattering frines 710 tamaracle swapup 800 hardwood undergrow scattering fries 1130 old burningers 1970 reach link 170 east of ancervid at line 170 at a take

S. 27 T. 47 R. 32 768 761 (785) 50

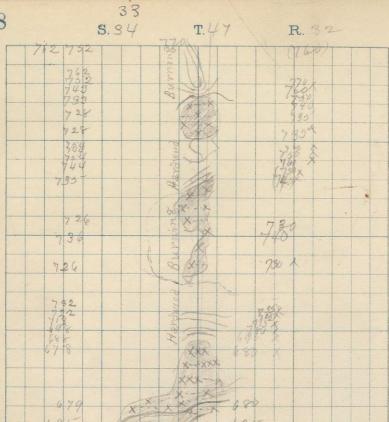
93 Continue north from 14 mile post ancroid at 690 v3ª east Old burning I frue + hardwood 25 famardels swamp 210 Old Trine burning on v 3 east 720 Samarack swarp, barre 1000 VI " east breen lamarack swamp 914 120 Fair fractioned + office with scattering whites 1260 tomarage swamp 1842 reach line 180 pages east of front whis is marked about 48 I are rad 795 absolut 28,235 BM 770.76 Bearing tree of old 4 stake found 87 party east of L. S. S. Me stake.



95 Set aneroid at 739 18 B. M. 74294 ale 28,260 v20easl Start south in fair hardwood (maple and buch) and spruce 30 lamaraclo sucum 130 fair maple, long + spring scatteri 3/10/ cedar of tamarack swamp 350 fair hardwood & shruer 300 las 30 east. Hardwood & spruce mo by undergrowth with scattering 1500 Old frue & hardwood barning 1876 reach line 45 haces week

R. 32

97 Continue south from 18 mile post aneroid at 760 0 10 east 1748 180 lamarack swareh 130 Burning as before 300 tamasheloswands 500 030 5 20 old burning pine + hardwood 635 lumarack swamp 815 old burning with a little gree 1000 30 Ent 1100 fair handwood with scall 755 als 28,245, B/16 726,55 1235



Set aneroid at 695 seccor BM 1943 als 28335 V plat of about 5 used spruce with poattering water 12/18 36 tamarack owarth 105 reach creek 440. fair hardword maple & bere with reathering hours 15 seast 800 tamarack swamps 1253 930 pine + hardwood burning 10 30 burnt lamarack wamp 12 8 Fair hardwood maple & buch with scattering white homes 1340 04 ealst 15:10 tamarack swamp, 14 gy old burning with rouce pure + underbrush left. 1960 reach line 76 phose east of cor bost anexord whow reaching line you at state at con post 7ths lear post marked about

bost ancroid at 770 Old burning with pratches of under growth, beforely, plat variation used 1160 tamarack swamp 415 Old busing with under low tamarack many 1013-Olds burning Sprice June of hardword middergrowth 1650 sedas Hlamarack swamp 2086 reach line in swamp 140 backs wast of con frost hwarked about anchoid in swamp 725 at post 745 abs 28,286 BM74603

28 102 S.27 R.32 Hardwood

103 Set aneroid at 719 18BM 723.64 Start south in cedar of tamarack 672 Hudergrowth maple brich + spress lamarack swamp 1400 fair hardwood Arrice & balsain 1957 reach line go freeder west of & stake aneroid 735

33 s.34 104 R. 82 T. 47 720 Flat Handwood H 8

anisoid at 735 Hardwood mindergrowth 28 fair maple & birch with some spice flembock & scatte \$50 Undergrowth maple buch + spruce 1080 Fair maple and buch 1990 reach line 43 haces west anerod 678 abs 2835, BM 483,38 This book was simply rotten work

106 Aug 8 It spile mable & birch with some basswood to alout to pases then tamarack swamp no was over boulders and should great finaguetic. disturbance 1st mile back snauch up to between 9 410 hundry then spruce balsam & hardwood until about 1000 after that maple, bisch & some basswood. 2 Ald mile back, mable & birch with consider. able basswood throughout, are outerop in either but needle vary abustiade

1788 N 500 8 0 8 8 Eor see 34. strike 1 38 wast dep 1 30

.01746242vv

