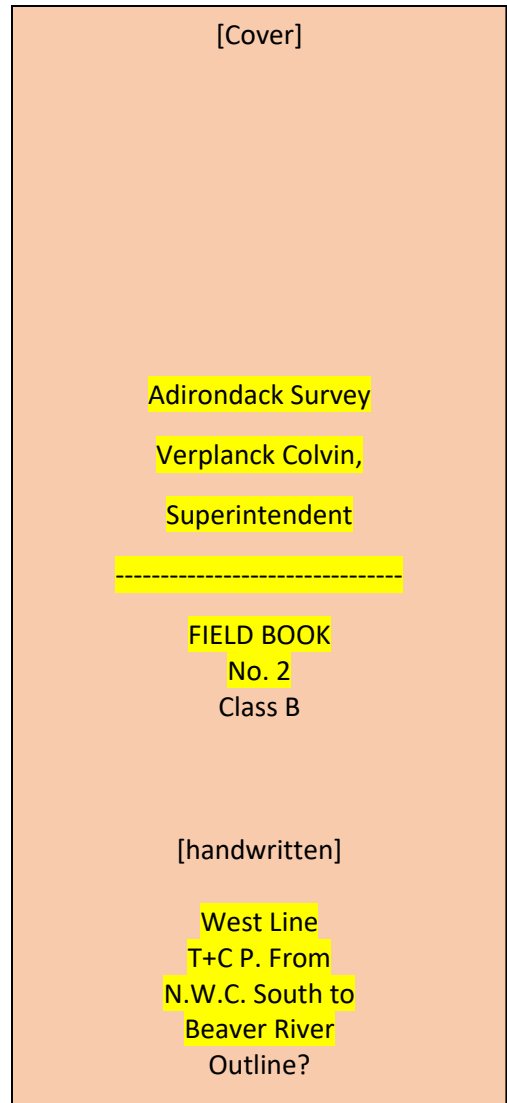
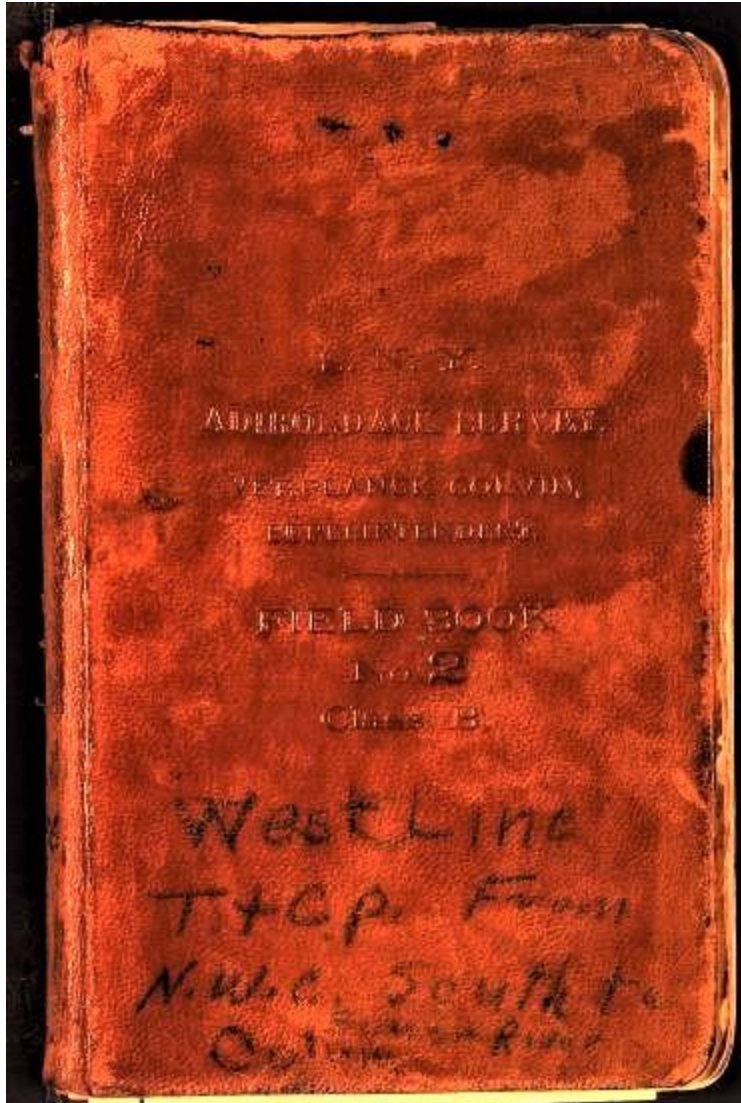


**Introduction to This Journal, Volume 158:**

**Tweedy, Frank. "Survey of Totten and Crossfield Line from N.W. Corner to Beaver River: Field Book No. 1." Albany, NY: Department of Environmental Conservation Colvin Field Books B1406, Vol. 158, 1878.**

This Journal recorded the first half of Tweedy's "Line of Levels" from the NW Corner to Beaver River, with the left side of each page as a Table of Stations every 100 feet on that T&C Line, frequently with fore and back bearings noted and with temperature and barometer readings taken for some key points through the day, the distance they covered from the NW Corner, and then each Mile-mark along the way. The right side of each page then shows a sketch of the topography represented by the Table, with many interesting features added. Tweedy paid particular attention to Corners, boundary lines, where his camp locations were, when the crew ended its work each day, elevation lines, streams, trails, tree-types, and a host of topographical features. This first volume of his T&C Line survey work began on or just before July 18, 1878, and ran through August 16<sup>th</sup>, 29 days, ending with Station 1413 at the Beaver River where he set up a 30 foot high red flag (p. 101). An early end to that T&C survey work was "on account of high water." After reaching Beaver River, he continued another several thousand feet to the Carthage to Champlain Road, where another BM was set. In his Synopsis of work (p. 125) he stated that he reached Station 1141 covering 67,023 feet in total (12.7 miles). Tweedy listed in that Synopsis 35 "courses run" on that T&C Line, with several perpendicular side-runs to ponds or lakes nearby, as if a "course" was what his crew covered in one day. At any rate, on average they traversed 2311 feet per day, or just over a half mile. On p. 115 he remarked "T&C 17.6 ft E of Foresight line. This is probably Richard's line," referring to earlier survey work; then in numerous places he refers to the 1853 survey work done by Squire Snell, his current co-worker on the Southwestern Division of the Adirondack Survey. The Table on page 84 is a key to this older Survey work on Beaver River and the T&C Line, with Richard's Survey done in 1815 and Snell's in 1853 and 1854. Richards is mentioned 15 x and Squire Snell 34 x. At each 1000 foot mark Tweedy took the temperature and a barometer reading (until the latter piece of equipment broke), and set up a post to mark that point. Tweedy's sense of excitement at finding key monuments and the posts or Corners from earlier surveyors marks this journal, with the exhilaration and jubilation expressed in Colvin's 1886 Journal when he led a crew that included Tweedy and Snell on a search for the "Big Corner" dividing the Totten & Crossfield Purchase from St. Lawrence County, the Great Macomb Tracts, and Watson Township in Lewis County. This Journal captures that same jubilation with more discoveries all the way from the Oswegatchie to the Beaver River. Colvin was no doubt pleased when he read through each of Tweedy's Journals, which include these detailed Tables for each 100 feet and the helpful sketches of topography for each Table. A significant number of pages are missing at the end of the Journal, with tape shadows that may relate to that. [See fuller Introduction to Tweedy's Journals & Bibliography].

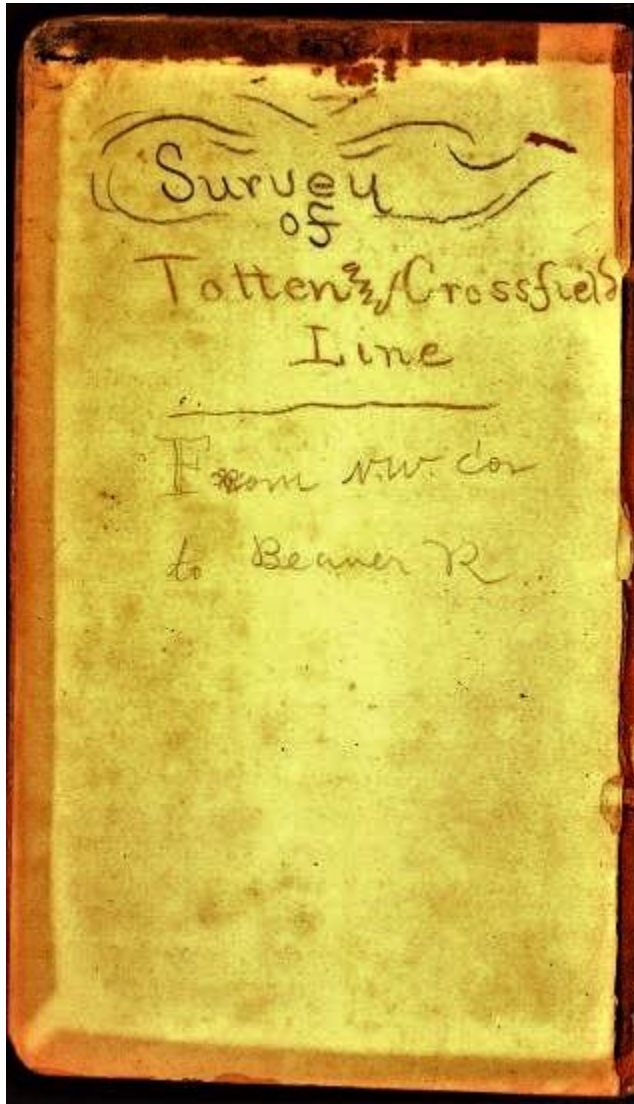


[DEC Environmental Conservation ID for this Colvin Field Book]

B1406

VOLUME NO. 158 [156 is crossed out]





[Inside Cover]

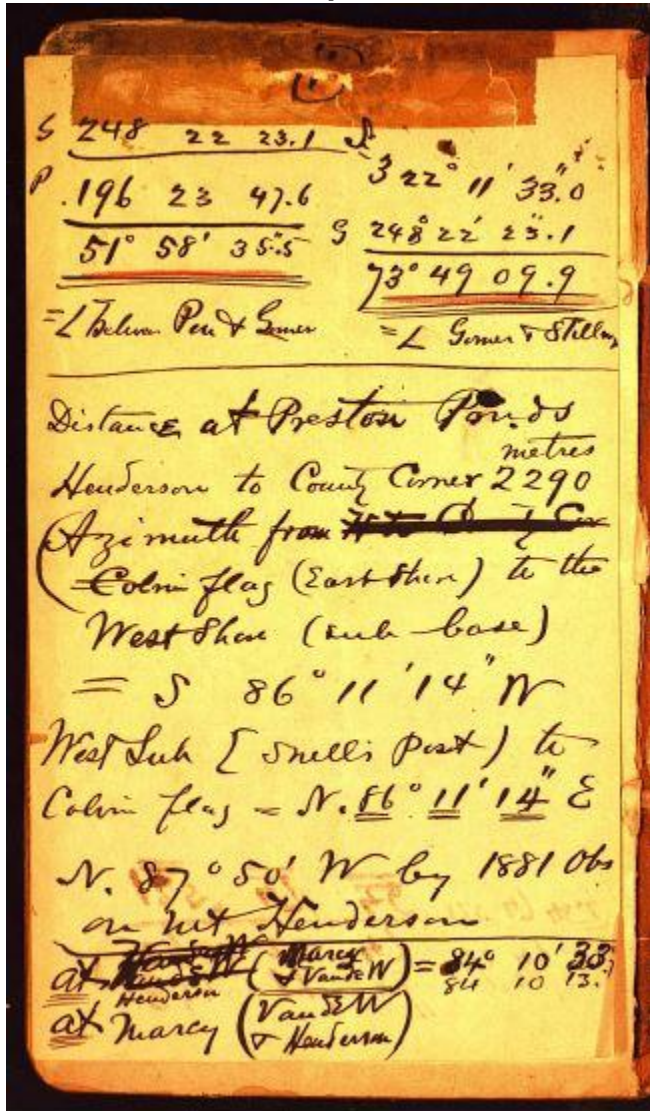
Survey  
of  
Totten and Crossfield  
Line

---

From N.W. Corner  
to Beaver River

[Page 1 is blank, with the reverse image of Page 2]

[P. 2, Various Notes which seem unrelated to the theme of this Journal (T&C Line), and seem to be in the handwriting of Verplanck Colvin, with angles between 3 Adirondack Mountains (names unclear), with distance from Preston Pond to Mt Henderson, several Azimuth readings and reference to a "Colvin flag," and then the only tie-in to the Western ADKS that I see, "Snell's Post"]



[P. 2]

Somer? Mtn	Stillman? Mtn
Pen? Mtn	Somer? Mtn

51° 58' 35.5"	73° 49' 9.9"
=[Angle] between Pen & Somer	
=[A] bet Gomer & Stillm	

---

Distance at Preston Ponds  
Henderson to County Corner 2290 metres

(Azimuth from Colvin flag (East shore) to the West Shore (sub base)  
= S 86° 11' 14 W

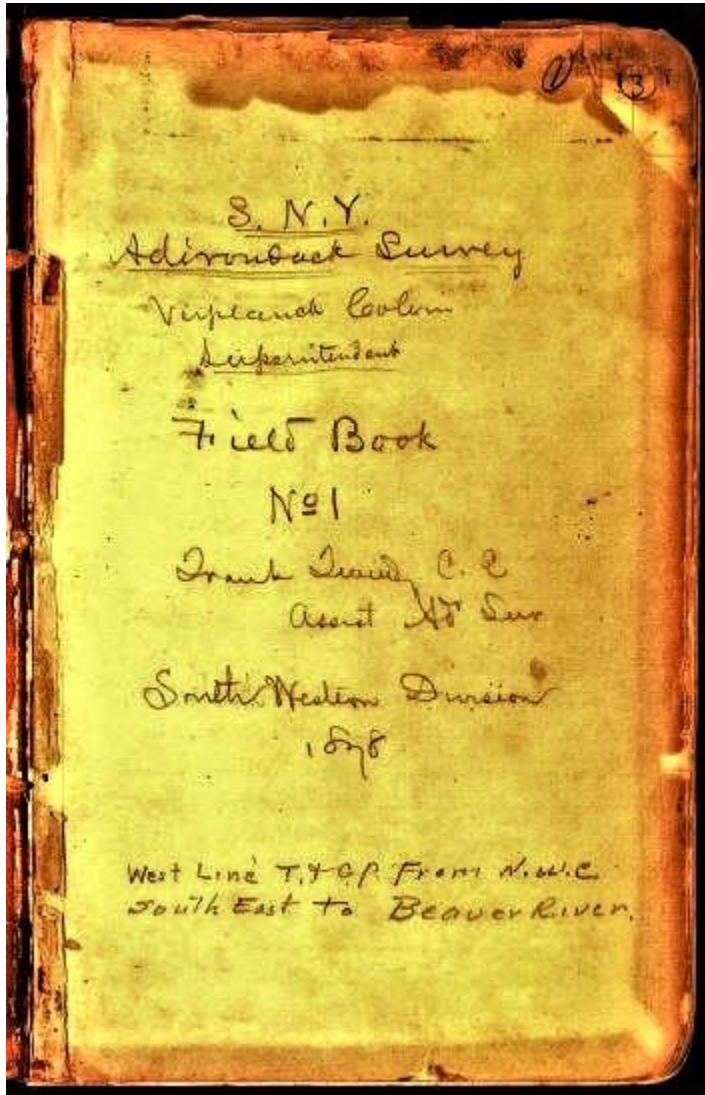
West Sub [Snell's Post] tp  
Colvin flag = N. 86° 11' 14" E

N. 87° 50' W by 1881 Obs  
on Mt. Henderson

---

At Mt. Henderson (Marcy & Vandew?)	= 84° 10' 33.7"
At Marcy (Van deW & Henderson)	84° 10' 13"

[P. 3, Title Information]



[P. 3]

1878

S.N.Y.  
Adirondack Survey

Verplanck Colvin  
Superintendent

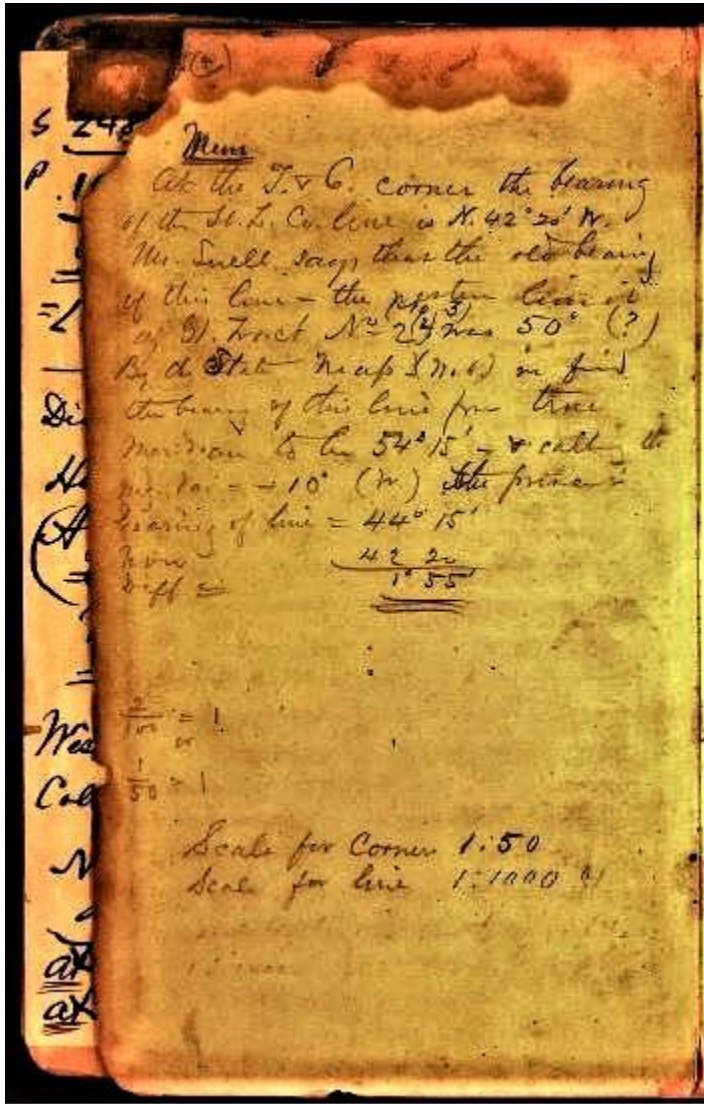
Field Book  
No. 1

Frank Tweedy, C.E.  
Assist Ad Survey

South Western Division  
1878

West Line T. & C. P from North West Corner  
South East to Beaver River

[P. 4- a Memo about the T&C corner adjacent to St. Lawrence County & the Brown's Tract]



[P. 4]

Mem

At the T. & C. corner the bearing of the St. Lawrence Co. line is N. 42° 20' W. Mr. Snell says that the old bearing of this line- the western line is by Br. Tract No. 2<sup>(2)3)</sup> was 50° (?) By the State Map (No. 6) we find the bearing of this line from true Meridian to be 54° 15' - & calling the neg. var. = -10° (W.) the present bearing of line = 44° 15'

Now	<u>42</u> <u>20</u>
Diff =	1° 55'

$\frac{2}{100} = 1$	$\frac{1}{50} = 1$
---------------------	--------------------

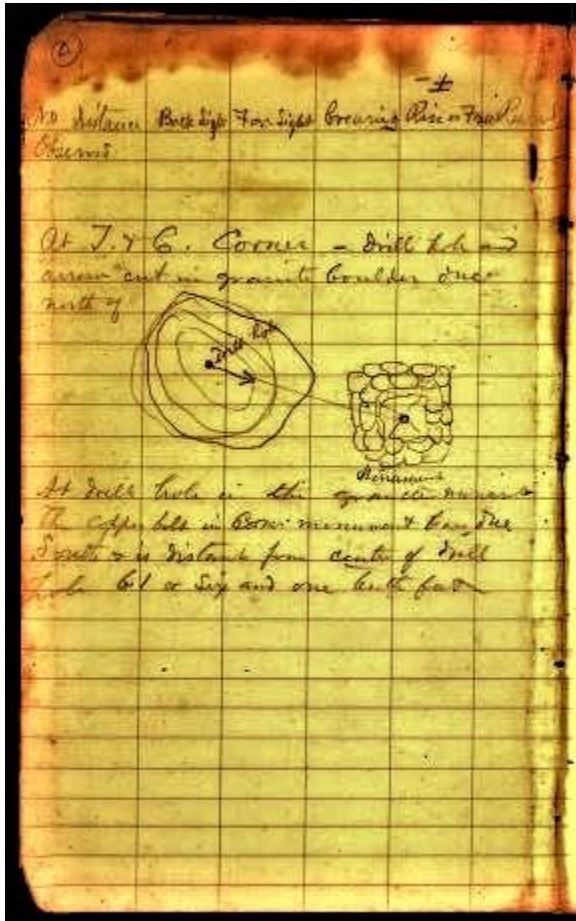
  

Scale for Corner	1:50
Scale for line	1:1000

[P. 5 blank]

[P. 6 Description of the Totten & Crossfield Corner in the NW, with a copper bolt in place]

Distance	Back Sight	Fore Sight	Bearing	Rise or Fall (+/-)	Resernt?
No distance observed					



[P. 6]

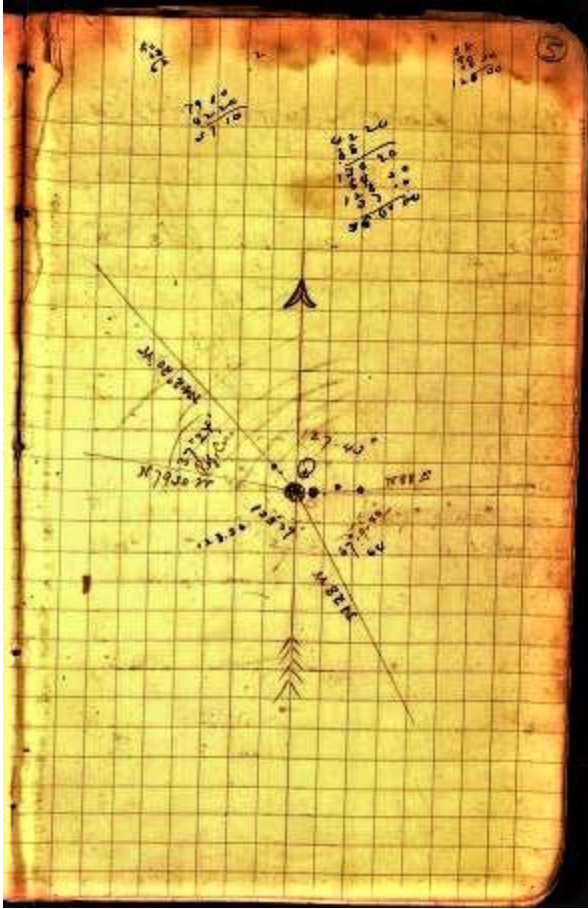
4.  
[Table Headings as shown above]

At T. & C. Corner- drill hole and arrow cut in granite boulder one north of

Drill hole  
→  
Monument

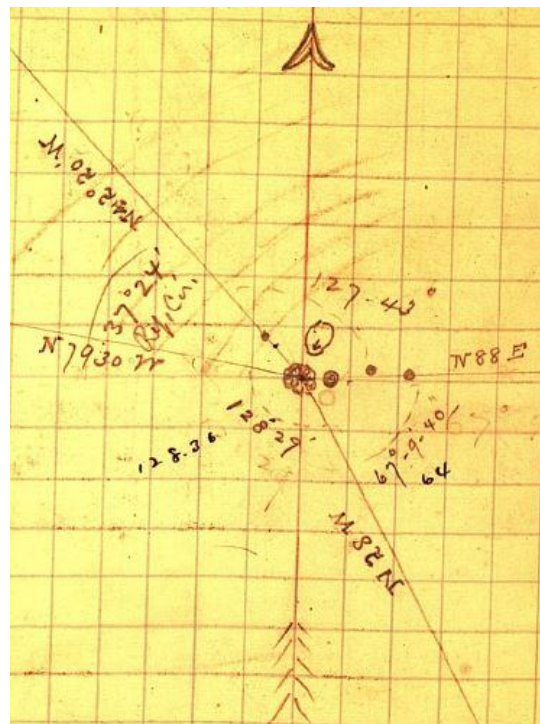
At drill hole in the granite ? the copper bolt in Corner monument bears one South & is distant from center of drill hole 6.1 or Six and one tenth feet.

[Note my numbering of pages is not in sync with Tweedy's, mine P. 6, his P. 4]



[P. 7 with bearings originating at the NW Totten & Crossfield Corner, with the T&C Line on a N 28 W bearing toward that Corner]


[Closeup of P. 7]



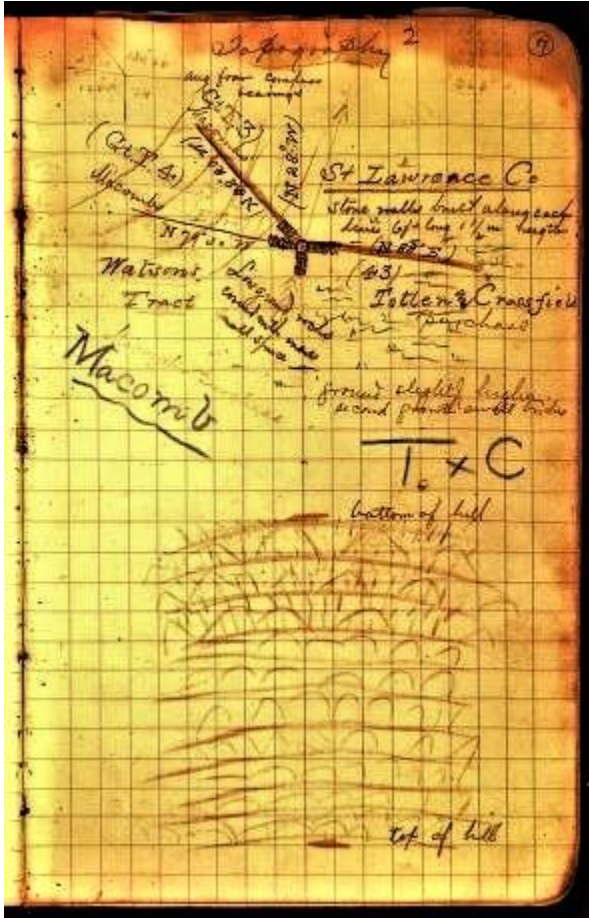


[P. 8- Table for Stations 1 to 21 along the T&C Line from the NW Corner, with detailed info at that Corner as a preface to that Table]

Corner of Totten & Crossfield and St. Lawrence Co. and James Watson Tract Nickel plated coper bolt (No. 1) set in rock 11.7 ft from spruce- 6.1 ft from rock with arrow cut into it

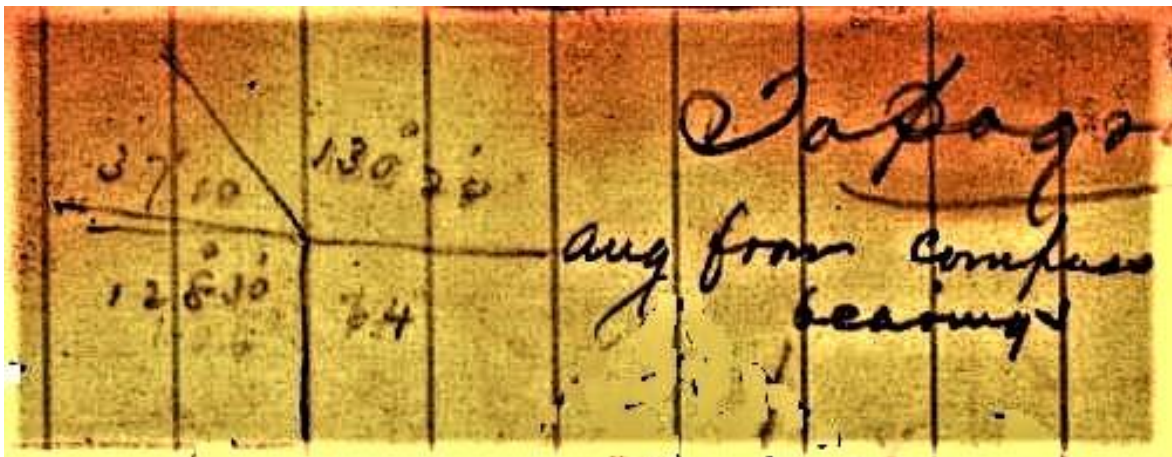
Station	Clinometer	Reduced Distance	F.S. Bearing [Fore Sight]	B.S. Bearing [Back Sight]	Ther. Barometer
1	0	50	S 28° E	N 28° W	10 PM
2	0				Temp (det) 89° Temp (atl) 85° Barometer 27.88
3	0				
4	0				
5	0				
6	0				
7	0				
8	0				
9	0		S 26° E	N 28° W	
10	soft maple marked				
11					
12					
13					
14					probably local
15					athanlion?
16					
17					
18					
19					
20 (985.45)	0				
21					

[P. 9 Topography for Stations 1 through 21 in the preceding Table, with this page numbered as 7 by Tweedy; Here Tweedy labeled all the major tracts and a county emerging from this Corner, with bearings and angles noted]



Topography 2 7  
 angles from compass bearings  
 [See Enlargement Below]  
 Great Tract 3 (Macomb)  
 Great Tract 4 (Macomb)  
 St. Lawrence Co.  
 stone walls built along each  
 line 6 ft long 1 1/2 in length  
 Watson's Tract (43)  
 Low ground, rocks Totten & Crossfield  
 covered with moss Purchase  
 ground slightly higher  
 second growth small bushes  
 T x C  
 bottom of hill  
 top of hill

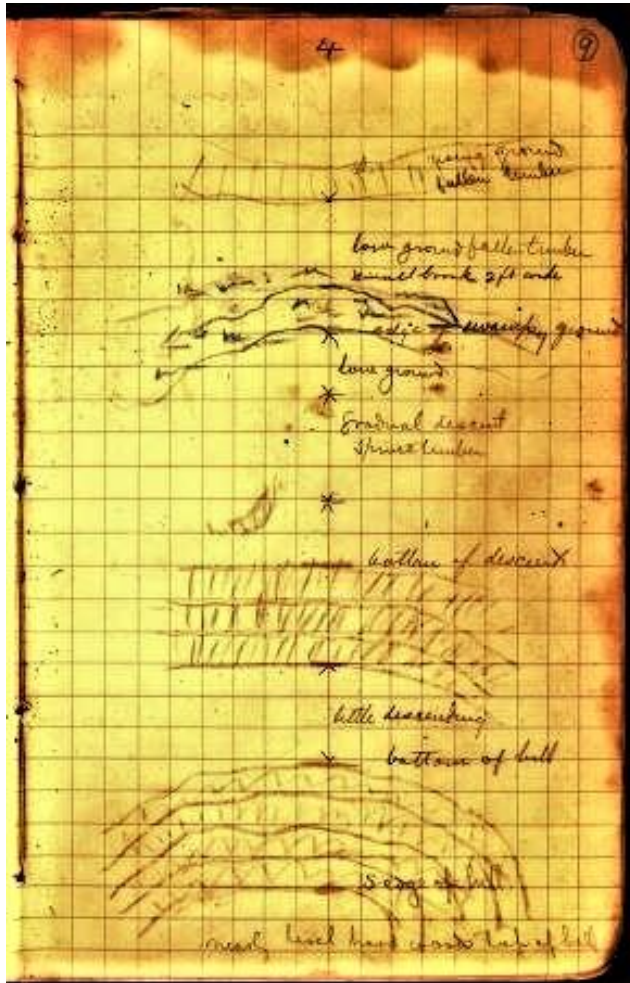
[Enlargement of Compass Bearings Around Corner Post]



[P. 10- Table for Stations 1 to 21 along the T&C Line from the NW Corner, with notes about distance, bearing, temperature, and barometer readings]

Station	Clin.	Reduced Dis	F. S. Bearing	B.S. Bearing	Therm. Bar.
48					
47			S 28° E	N 27.5° W	
46			"	"	
45	2241.8		"	"	
44 +38			"	"	
43	0		"	"	
42	0		"	"	
41	0		"	"	5:20 PM T det 79.5° alt 78° B 28.15
40	0		"	"	
39	0		"	"	
38	0		"	"	
37	0		"	"	
36	0		X	"	
35 (1731.8)	0	Correct + 10 ft Mistake made by chairman	S 30° E	N 28° W	
34	0		"	"	
33	0		"	"	
32	0		"	"	
32	0		"	"	
30	0		"	"	
29 (1431.80)	x		X	X	
28			S 28.5° E	N 28.5° W	
27	10 1/2°		"	"	
26			"	"	
25 (1235.15)	x		"	"	
24	0		"	"	
23	0		"	"	
22	0		"	"	

[P. 11 Topography for Stations 22 through 28 in the preceding Table, with this page numbered as 9 by Tweedy; this sketch shows a hill, stream, and swampy ground]



9

rising ground  
fallen timber

low ground, fallen timber  
small brook 2 ft wide

edge of swampy ground  
low ground  
x  
gradual descent  
spruce timber  
x  
bottom of descent

little descending

bottom of hill

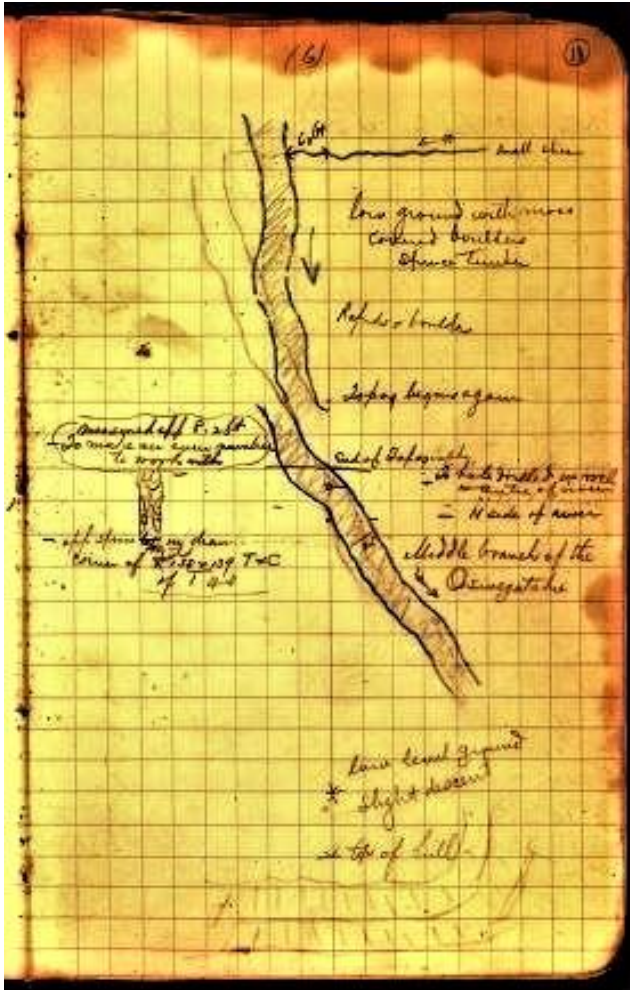
S. edge of hill  
nearly level hard wood top of hill

[P. 12- Table for Stations 49 to 68 along the T&C Line from the NW Corner, with notes about a river-crossing, with distances & bearings noted; also noted is a date when Station 67 was reached and temp and barometer readings taken; not sure why Stations 1-8 are listed in the Table again]

Station	Clin.	Reduced Dis	F. S. Bearing	B.S. Bearing	Therm. Bar.
8 +26					
7			S 28° E		
6			"		
5			"		
4			"		
3			"		

2 +25			S 23° 45' E Here an any? is found crossing the river	N 23.75° W	
1			"	"	
Commencement from 68 + 8.2			"	"	
8.2 68	3400. 3391.8		"	"	
67 +24.9			"	"	July 18 10:40 AM T 83.5° F B 28.09 T alt 82°
66 +24			"	"	
65 +28			"	"	
64 +31.7	3191.8	x	x	x	
63			S 28° W	N 28° W	
62			"	"	
61			"	"	
60			"	"	
59			"	"	
58			"	"	
57			"	"	
56			"	"	
55			"	"	
54	2691.8		"	"	
53			"	"	
52			"	"	
51			"	"	
50			"	"	
49			"	"	

[P. 13 Topography for Stations 49 through 68 in the preceding Table,  
with this page numbered as 11 by Tweedy;  
this sketch shows the Middle Branch of the Oswagatchie River  
with a hole marked in stone in the river and Township 43 lot corners]



11

60 ft small stream

low ground with moss covered boulders spruce timber

Rapids + boulders  
Topography begins again

measured app? 8.2 ft  
-To make an even number to work with  
-app spruce 6 in diam  
in Township 43 of T&C

End of Topography  
-To hole drilled in rock in centre, or N side of river

**Middle branch of the Oswegatchie**

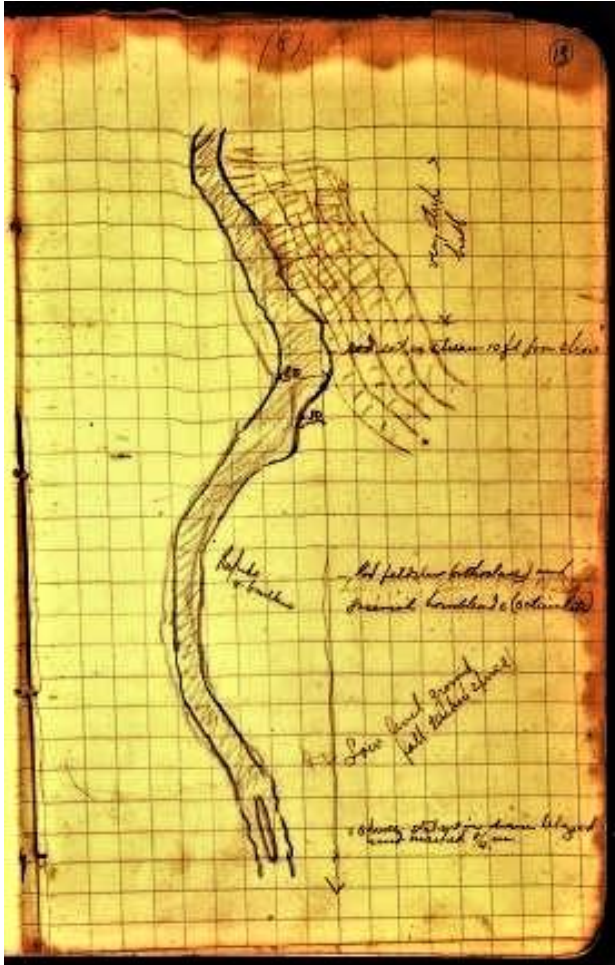
\*low level ground slight descent

\*top of hill

[P. 14- Table for Stations 9 to 33 along the T&C Line from the NW Corner, with notes about a river-crossing, with distances & bearings noted; I am unsure of why Tweedy repeated Stations already covered; two dates are noted- July 18 & 19]

Sta	Red Dis	F. S. Bearing	B.S. Bearing	Therm.	Bar
33				July 19 3:58 PM T(det) 81 T(alt) 80	B 27.90
32	5000				
31					
30					
29					
28	4800				
27					
26	4708				
25	4650				
24					
23					
22					
21					
20					
19					
18		S 26 E			
42.8 17	x	x	x		
16			S 28 E		
15					
14					
13				July 18 4:40 PM T 83° Fah T. (alt) 82.5°	B 27.87
12	4000				
11 +10 =	3900 = ¾ mi				
10					
9					

[P. 15 Topography for Stations 9 through 33 in the preceding Table, with this page numbered as 13 by Tweedy; this sketch continues on the Middle Branch of the Oswagatchie River with a rod and spruce stake marked on the shore. Not sure why the return to earlier stations here...interesting geological notes]



13

very steep hill

rod set in stream 10 ft from shore

80 ft

Rapids & boulders Red feldspar (orthoclase)  
Greenish hornblende (actinolite)

Low level ground  
fallen timber (spruce)

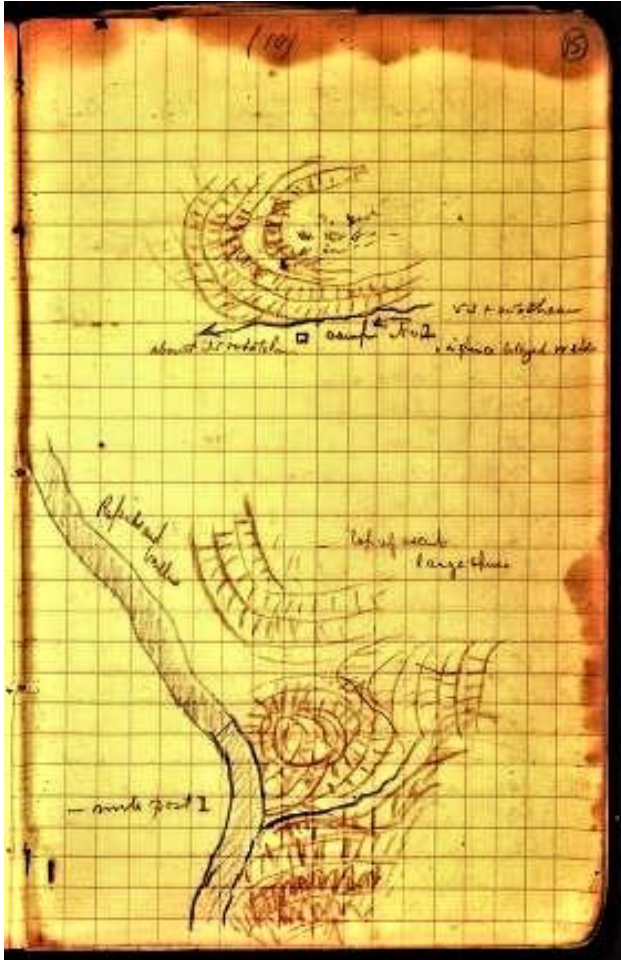
spruce stake 3 in diam  
blazed and marked  $\frac{3}{4}$  in



[P. 16- Table for Stations 34 to 58 along the T&C Line from the NW Corner, with notes about a river-crossing, with distances & bearings noted; the one-mile mark is noted with two temp and barometer readings on July 19<sup>th</sup>]

Sta	Red Dis	F. S. Bearing	B.S. Bearing	Ther.	Bar
58	6300				
57					
56	6200				
55					
54	6100			July 19, 5:15 PM T 80° T(alt) 79°	B 27.89
53					
52	6000				
51					
50	5900				
49					
48	5800				
47					
46	5700				
45					
44	5600				
43					
42	5500				
41		S 2°8 E			
40	5400	x	x		
39	5350		N 28° W	July 19 4:40 PM T (det) 80.5° T (alt) 78°	B= 27.84
38	5300				
37	5280 (1 Mile)				
36					
35					
34					

[P. 17 Topography for Stations 34 through 58 in the preceding Table,  
with this page numbered as 15 by Tweedy;  
this Table & sketch list Mile post 1 from the NW Corner,  
along the Oswagatchie River, with Camp No. 1 on a stream running into that River]



15

53 + 25 = stream

□ Camp No. 1

about 35 rods to line

-on spruce blazed W side

Rapids and  
boulders

-top of ascent  
large spruce

-Mile post 1

[P. 18- Table for Stations 59 to 84 along the T&C Line from the NW Corner, with two temp and barometer readings on July 20<sup>th</sup>]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
84	7600				
83	7550				
82	7470.6 7500	x	x		
81	7450			July 20 9 AM T det 74.5° T (alt) 75°	B = 27.86
80	7400				
79	7350				
78	7300				
77	7250				
76	7200				
75	7150				
74	7100				
73	7050				
72	7000			July 20 8-10 AM T 72° T alt 72°	27.9
71	6950				
70	6900				
69	6850				
68	6800	S 27° E			
16.4 67	x 6750	x	x		
66	6700		N 26° W		
65	6650				
64	6600				
63					
62	6500				
61					
60	6400				
59					

[P. 19 Topography for Stations 59 through 84 in the preceding Table, with this page numbered as 17 by Tweedy; this sketch notes corner marker for Watson Tract, with an ending to the work on July 19, 1878]



17

(40)

Corners of lots 40 & 41 Watson's Tract

- 40 spruce stake 4 in diam
- ☐ marked opp dead beech (blazed)
- 41 much fallen Spruce

side hill

(41)

line crossing several small ridges at their extremities

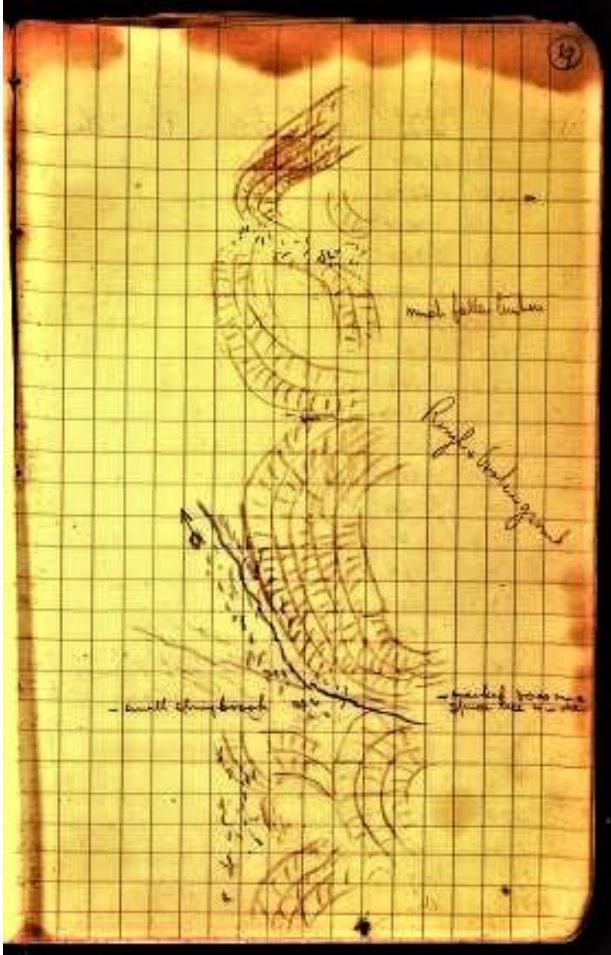
end of work July 19, 78

boulders covered with moss, fallen timber

[P. 20- Table for Stations 85 to 109 along the T&C Line from the NW Corner, with one temp and barometer readings on July 20<sup>th</sup>]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
109	8850				
108	8800				
107	8750				
106	8700				
105	8650				
104	8600				
103	8550				
102	8500				
101	8450				
100	8400				
99	8350				
98	8300				
97	8250				
96	8200				
95	8150				
94	8100				
93	8050			July 20 10:30 AM T(det) 82° T(atl) 84°	B 27.8
+24		*	*		
92	8000				
91	7950				
90	7900				
89	7850				
88	7800				
87	7750				
86	7700				
85	7650				

[P. 21 Topography for Stations 85 through 109 in the preceding Table, with this page numbered as 19 by Tweedy; Tweedy marked North on this sketch, noting an 8000 ft mark on a spruce tree]



19

much fallen timber

Rough & broken ground

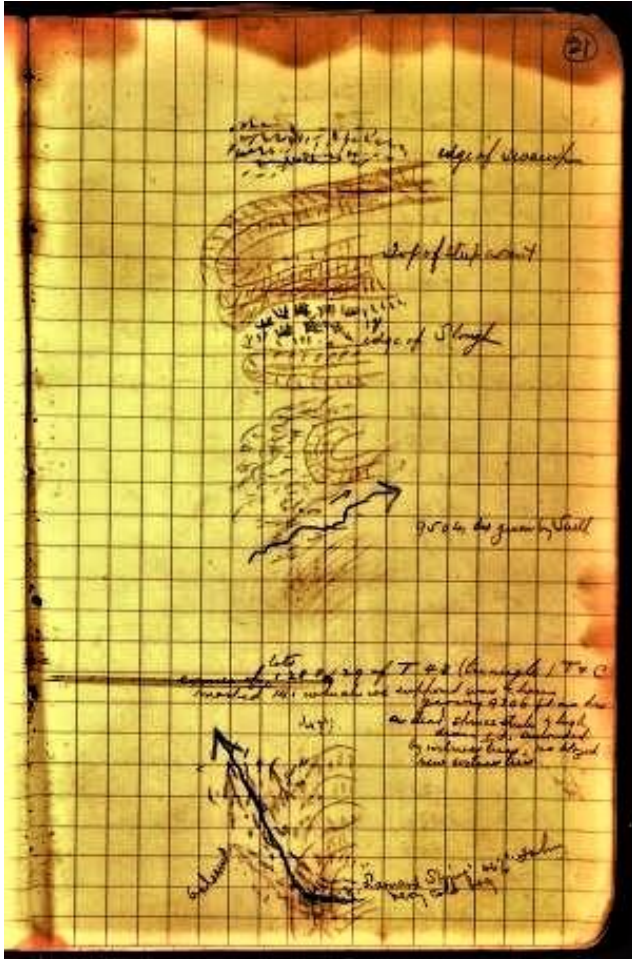
-small spring brook

-marked 8000 on a spruce tree 4 in diam

[P. 22- Table for Stations 110 to 134 along the T&C Line from the NW Corner, with three temp and barometer readings on July 20<sup>th</sup>, 11:50 AM and 2 & 2:30 PM]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
134	10100				
133	10050				
132	10000	x		July 20 2:30 PM T 86° T (atl) 89°	B 27.80
131	9950				
130	9900				
129	9850 + 30				
128	9800 +15	x		July 20 2 PM T 85.5° T (atl) 87°	B 27.9
127	9750				
126	9700				
125	9650				
124	9600				
123	9550				
122	9525 9500				
121	9450				
120	9400				
119	9350				
118	9300				
117	9297 9250				
116	9200				
115	9150				
114	9100				
113	9050				
112	9000	x		July 20 11:50 AM T 85° T (atl) 86°	27.9
111	8950				
110	8900				

[P. 23 Topography for Stations 85 through 109 in the preceding Table, with this page numbered as 21 by Tweedy; Tweedy references previous work by Squire Snell, as he added witness trees to Corner of 2 lots in Township 43 of T&C Purchase, and he refers to a cold spring or bog named "John Lamand Spring"]



21

edge of swamp

top of steep ascent

edge of Slough

9304 dis given by Snell

Corner of lots 128 & 129 of T43  
(triangle T&C) marked 141  
which we supposed was  
chains giving 9306 ft as dis,  
a dead spruce stake of high  
diam- 1.3, surrounded  
by witness trees. We  
blazed new witness trees

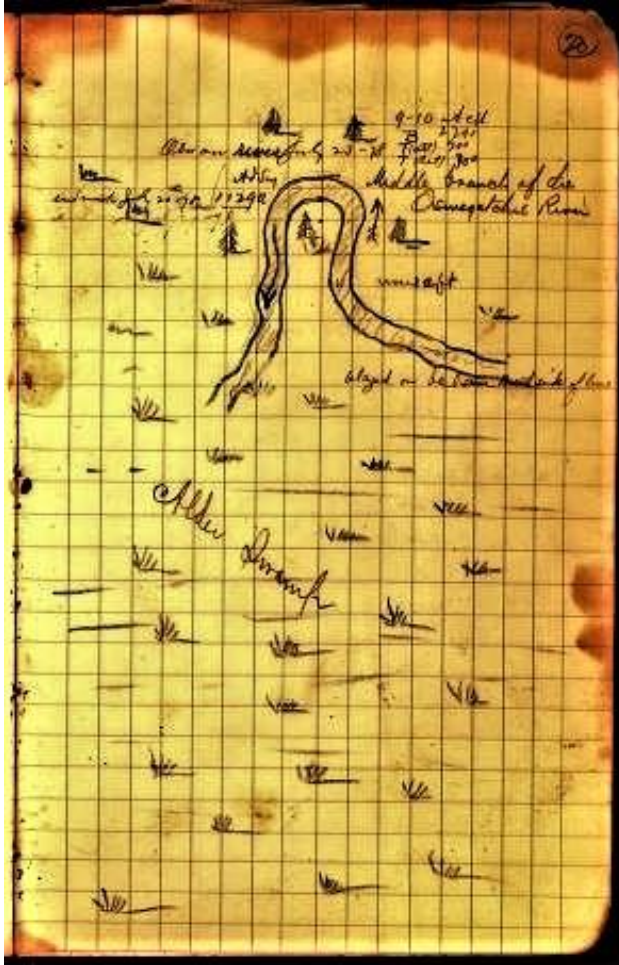
balsam "Lamand Spring" 46' John  
very cold bog



[P. 24- Table for Stations 135 to 159 along the T&C Line from the NW Corner, with one temp and barometer reading on July 20<sup>th</sup> at 4:15 PM; Tweedy reached his 2 mile mark from the NW Corner of T & C]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
159	11350		N 22.5° W		
158	11300 +29	Deviation from the line			
157	11250 +40	S 22.5° E			
156	11200		N 28 W°		
155	11150				
154	11100				
153	11050				
152	11000	x		July 20 4:15 PM T 86 T (atl) 91	B 29.85
151	10950				
150	10900				
149	10850				
148	10800				
147	10750				
146	10700	S 28° E			
145	10650 +27		N 27° W		
144	10600				
143	10550 +10	(2 Miles)			
142	10500				
141	10450				
149	10400				
139	10350				
138	10300				
137	10250				
136	10200				
135	10150				

[P. 25 Topography for Stations 135 through 159 in the preceding Table, with this page numbered 23 by Tweedy; he notes a July 20, 1878 end for work here on the Middle Branch of the Oswegatchie River and a tree blaze to the W of the line]



23

Above river July 23-78, 9-10 AM

B 27.91, T(at) 70°, T (det) 70°

AdSug?

11290

end work July 20<sup>th</sup> 78

Middle Branch of the  
Oswegatchie River

? 2 ft

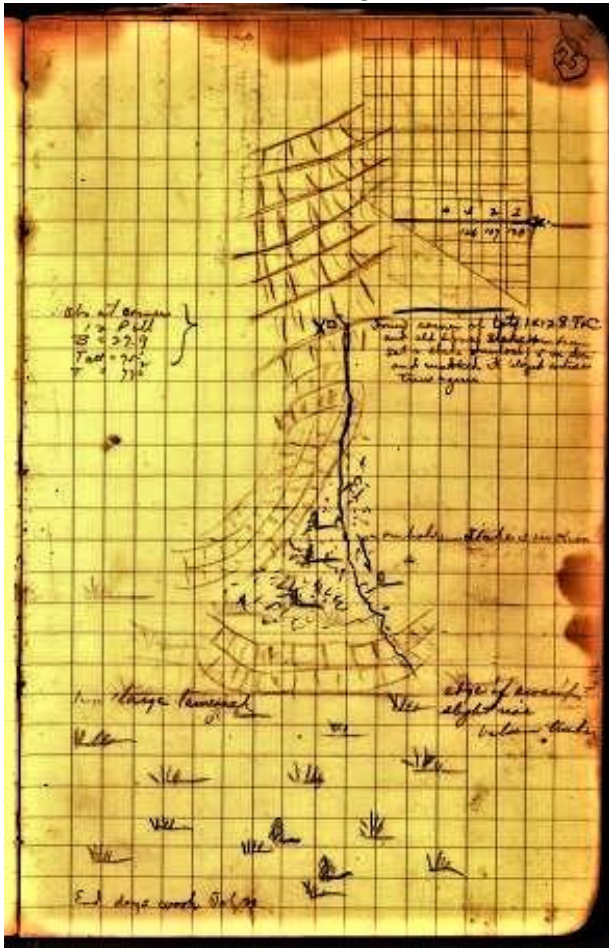
blazed on balsam  
West side of line

Alder Swamp

[P. 26- Table for Stations 160 to 184 along the T&C Line from the NW Corner, with one temp and barometer reading on July 23<sup>rd</sup> at 10 AM; Tweedy reached his 2 mile mark from the NW Corner of T & C]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
184	12600				
183	12550				
182					
181					
180					
179	12350	S 28° E			
178	12300 +32.4 12332.4 feet				
177	12250		N 25° W		
176	12200	S 25° E			
175	12150 +37		N 39° W		
174	12100				
173	12050				
172	12000	x		July 23 10:00 AM T 75 T (det) 74	B 27.89
171	11950				
170	11900				
169	11850				
168	11800				
167	11750				
166	11700				
165	11650				
164	11600				
163	11550				
162	11500				
161	11450				
160	11400	S 28° E			

[P. 27 Topography for Stations 160 through 184 in the preceding Table, with this page numbered 25 by Tweedy; he notes a July 20 end for the day's work here with discovery of Lot Corners on the T&C Purchase's western line, remarking witness trees for that Corner on a balsam stake]



25

4 -5 -2 -3  
126-129-128 x

Abs? at Corner  
12 PM  
B = 27.9  
T at l = 75.5°  
T = 77°

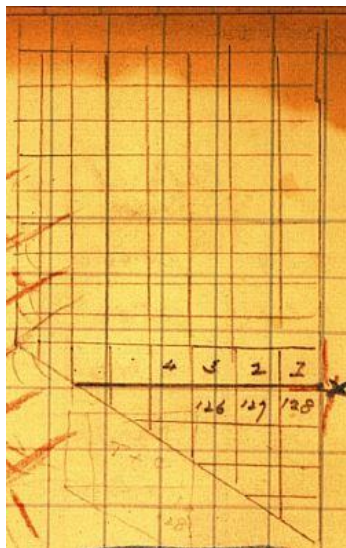
X  Found corner of lots 1 at 128 T&C and old Spruce Stake 4 in diam and marked it blazed witness tree again

on balsam Stake 3 in diam

edge of swamp  
slight rise  
balsam timber

large tamarack

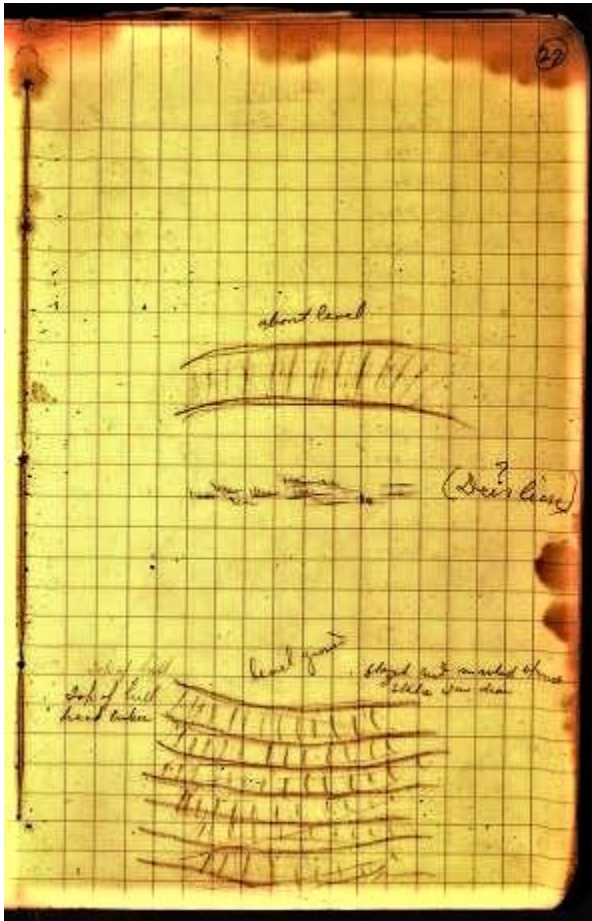
[Detail for T&C Corner & Lots from Upper Right]



[P. 28- Table for Stations 185 to 209 along the T&C Line from the NW Corner, with one temp and barometer reading taken at midday, no date given]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
209	13850				
208	13800				
207	13750				
206	13700				
205	13650				
204	13600				
203	13550				
202	13500				
201	13450				
200	13400				
199	13350				
198	13300				
197	13250				
196	13200				
195	13150				
194	13100				
193	13050				
192	13000	x		12:40 PM T(atl) 76° T (det) 71°	B 27.84
191	12950				
190	12900				
189	12850				
188	12800				
187	12750				
186	12700				
185	12650				

[P. 29 Topography for Stations 185 through 209 in the preceding Table, with this page numbered 27 by Tweedy; noted as level ground with a blazed and marked spruce stake]



27

about level

(Deer line?)

level ground

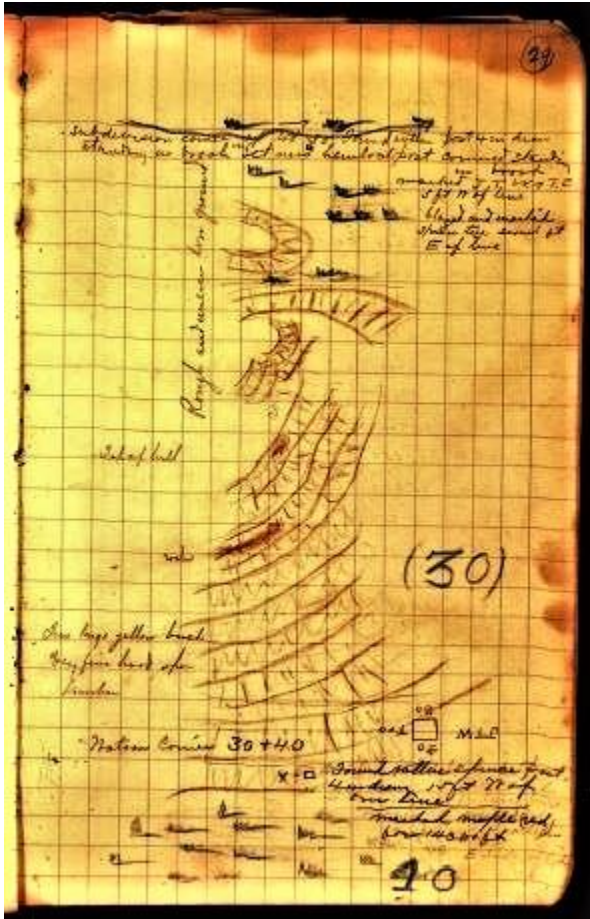
Top of hill  
hard timber

blazed and marked  
spruce stake 3 in diam

[P. 30- Table for Stations 210 to 234 along the T&C Line from the NW Corner, with three temp and barometer readings taken through the afternoon, no date given]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
234	15100 +19.5				
233	15050				
232	15000	x		4:15 PM T 75° T (det) 72°	B 27.8
231	14950				
230	14900				
229	14850				
228	14800				
227	14750				
226	14700				
225	14650				
224	14600	x		3:35 PM T alt 76° T 75°	B 27.77
223	14550				
222	14500				
221	14450				
220	14400				
219	14350				
218	14300				
217	14250				
216	14200				
215	14150				
214	14100				
213	14098 14050 +48				
212	14000	x		2 P.M. T = 75° T = 73.5°	B = 27.84
211	13950				
210	13900				

[P. 31 Topography for Stations 210 through 234 in the preceding Table, with this page numbered 29 by Tweedy; noted an important stake marking Watson Corner 30 & 40, with marking "JTW" for James Watson]



29

Subdivision corner of lot 30 found rotten post 4 in diam standing in brook. Set new hemlock post cornered stands in brook marked J T W and T.C. 5 ft W of line

rough and uneven low ground      blazed and marked spruce tree several ft E of line

Top of hill

(30)

Fine large yellow birch  
very fine hard open  
timber

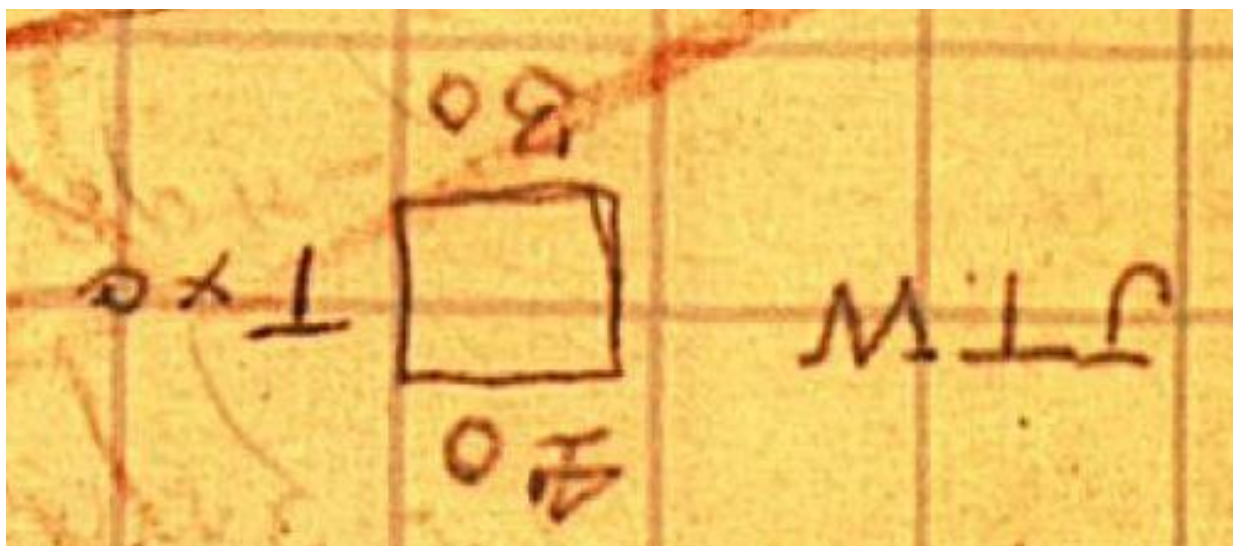
Watson Corner 30 & 40

[See Insert Below]

Found rotten spruce post 4 in diam 15 ft W of our line marked maple (red) for 14000 ft

(40)

[Insert from Sketch]

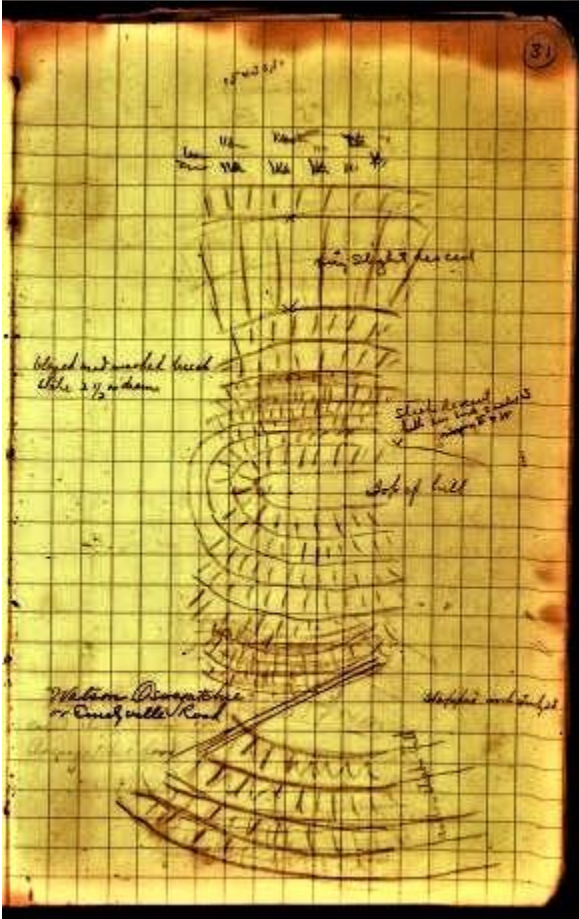




[P. 32- Table for Stations 235 to 259 along the T&C Line from the NW Corner, with four temp and barometer readings taken on two days, first on July 23, 1878, then on the next day, July 24<sup>th</sup>; Tweedy reached the 3-mile mark at Station 248, with note that at Station 240, he found a stake Snell had earlier placed in the road]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
259	16350			11 AM T 75° T 75.5°	B 27.87
258	16300				
257	16250				
256	16200				
255	16150				
254	16100				
253	16050				
252	16000	x			
251	15950				
250	15900				
249	15850				
248	15800 +40	(3 M)		10:20 AM T 70.5° T = 77°	B 27.8
247	15750				
246	15700				
245	15650			July 24-78 9:45 AM T (atl) = 69° T (det) = 66°	B = 27.85
244	15600				
243	15550	S 27° E			
242	15500		N 27° W	July 23 5:15 PM T 75° T det 71°	B 27.76
241	15450				
240	15400 + 40	to stake 4 in diam set in road (15430.8 by Snell)			
239	15350				
238	15300				
237	15250				
236	15200				
235	15150				

[P. 33 Topography for Stations 235 through 259 in the preceding Table, with this page numbered 31 by Tweedy; noted a work stoppage on July 23, with the finding of the old Snell beech stake on the Emilyville Road]



31

x 15430.8

very slight descent

blazed and marked beech  
stake 2.5 in diam

step descent  
hill in line 2 miles S  
running E & W

top of hill

Watson Oswegatchie or Emilyville Road

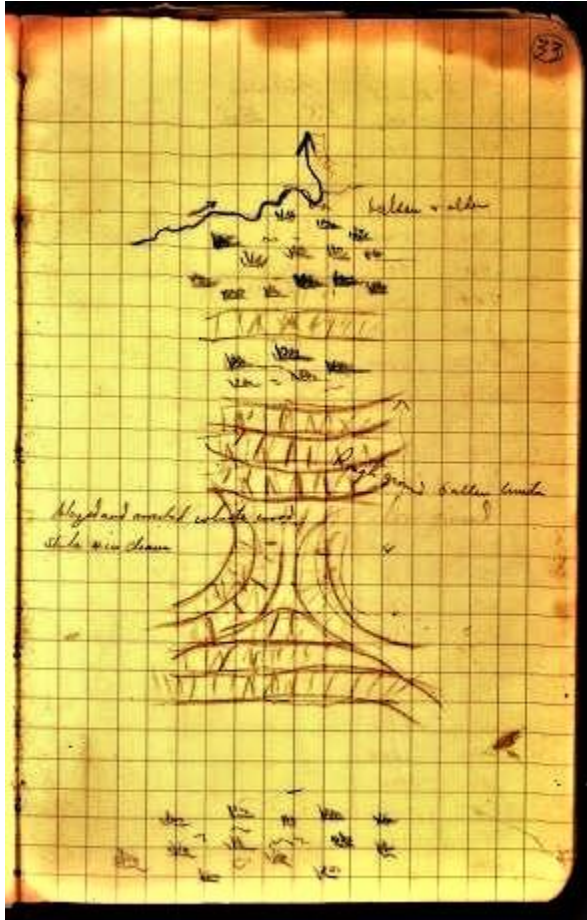
Stopped work July 23

rather steep hill

[P. 34- Table for Stations 260 to 284 along the T&C Line from the NW Corner, with one temp and barometer reading taken, no date noted]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
284	17600				
283	17550				
282	17500				
281	17450				
280	17400				
279	17350				
278	17300				
277	17250				
276	17200				
275	17150				
274	17100				
273	17050				
272	17000	x		12 AM T = 77 T det 76.5	B = 27.88
271	16950				
270	16900				
269	16850				
268	16800				
267	16750				
266	16700				
265	16650				
264	16600				
263	16550				
262	16500	*			
261	16450				
260	16400				

[P. 35 Topography for Stations 260 through 284 in the preceding Table, with this page numbered 33 by Tweedy; rough ground with fallen timber]



33

balsam & alder

Rough ground, fallen timber

blazed and marked white-wood?  
stake 4 in diam

[P. 36- Table for Stations 285 to 309 along the T&C Line from the NW Corner, with one temp and barometer reading taken, and work ending July 24<sup>th</sup>, 1878]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
309	18850				
308	18800				
307	18750				
306	18700				
305	18650	end of days work July 24 <sup>th</sup> 1878			
304	18600				
303	18550				
302	18500				
301	18450	S 25° E			
300	18400		N 27° W		
299	18350				
298	18300				
297	18250				
296	18200				
295	18150				
294	18100				
293	18050				
292	18000	x		2 PM T (atl) 82° T 70°	B 27.88
291					
290					
289					
288					
287					
286					
285					

[P. 37 Topography for Stations 285 through 309 in the preceding Table, with this page numbered 35 by Tweedy; here Camp No. 2 was located on the Outlet of Wolf Lake, with a blazed spruce nearby]



35

Wolf Lake

Camp No. 2  
Beaver Dam

Outlet

low level ground, small balsams

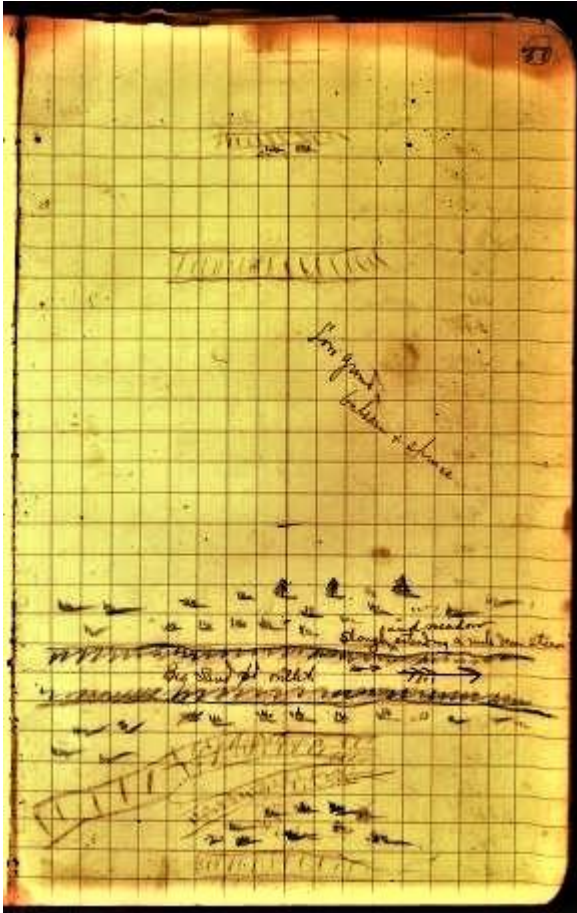
marked and blazed  
spruce tree 4 in diam

stream 4.5 ft wide

[P. 38- Table for Stations 310 to 334 along the T&C Line from the NW Corner,  
with 2 Temp & Barometer readings made  
and a mysterious note for Stations 316-320, referring to P. 8]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
334	20100				
333	20050				
332	20000			12 PM T 85° T 79.5°	B 28.00
331	19950				
330	19900				
329	19850				
328	19800				
327	19750				
326	19700				
325	19650				
324	19600				
323	19550				
322	19500				
321	19450				
320	19400	Stas. la? P. 8			
319	19350	"			
318	19300	"			
317	19250	"			
316	19200	"		11:50 AM T alt 86 T 80	B = 28.00
315	19150				
314	19100				
313	19050	S 27.5° E			
312 +64	19000		N 25 W°		
311	18950				
310	18900				

[P. 39 Topography for Stations 310 through 334 in the preceding Table, with this page numbered 37 by Tweedy; here he refers to Big Sand Pond outlet, with low ground and balsam and spruce]

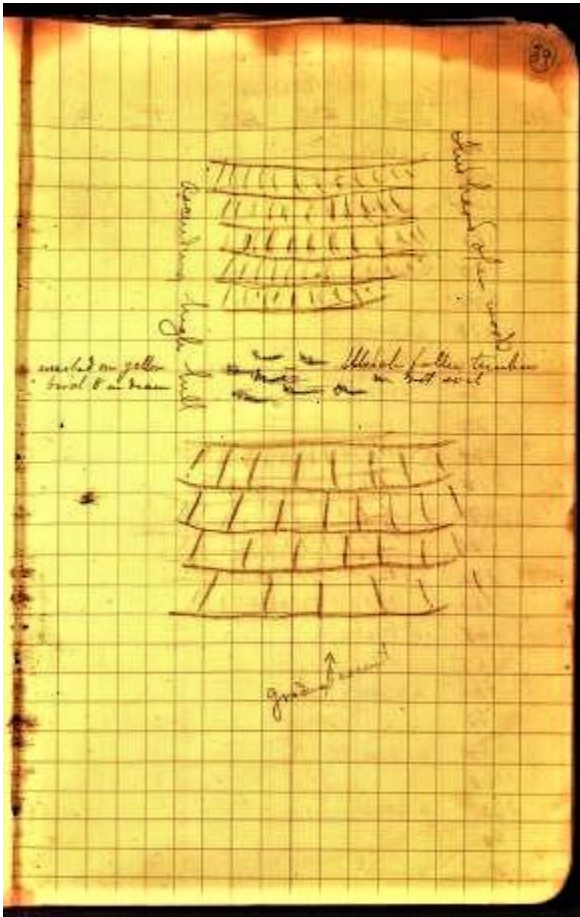




[P. 40- Table for Stations 334 to 356 along the T&C Line from the NW Corner,  
with 1 Temp & Barometer reading made  
and the 4 Mile-mark reached near Station 353]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
359					
358	21350				
357	21300				
356	21250				
355	21200				
354	21150				
353 +20	21120 21100	(4 M)			
352	21050				
351	21000			1 PM T 80° T 75.7°	B 27.7
350	20950				
349	20900				
348	20850				
347	20800				
346	20750				
345	20700				
344	20650				
343	20600				
342	20550				
341	20500				
340	20450				
339	20400				
338	20350				
337	20300				
336	20250				
335	20200				
334	20150				

[P. 41 Topography for Stations 334 through 359 in the preceding Table, with this page numbered 39 by Tweedy; here he refers to a marked yellow birch and much fallen timber in a swampy area]

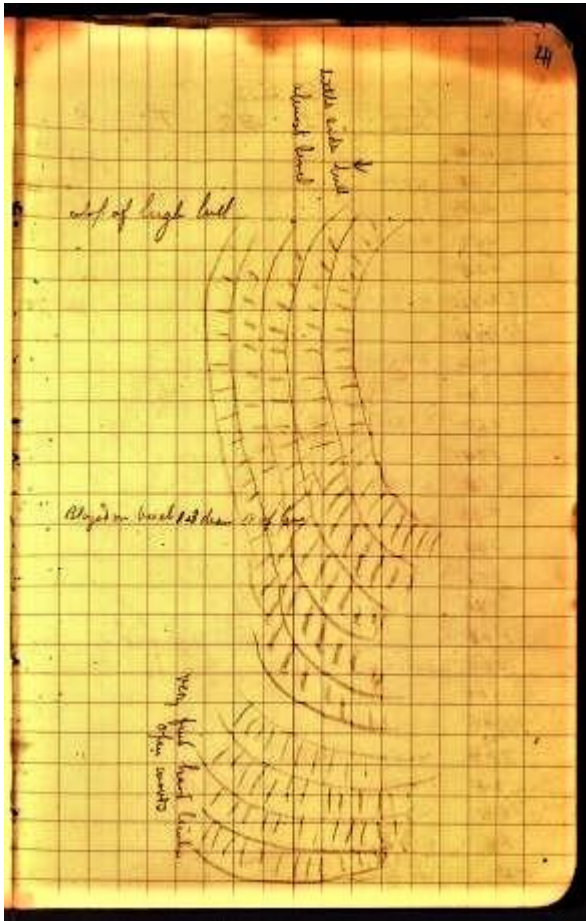


	39
Ascending high hill	Fine hard open woods
marked on yellow birch 8 in diam	Much fallen timber wet soil
gradual ascent	

[P. 42- Table for Stations 360 to 384 along the T&C Line from the NW Corner, with 2 Temp & Barometer readings made]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
384	22600				
383					
382	22500			1:50PM T = 78 T = 71	B 27.76
381					
380	22400				
379					
378	22300				
377					
376	22200				
375					
374	22100				
373					
372	22000			1:30PM T = 79 (atl) T = 74.5 (det)	B = 27.7
371					
370	21900				
369					
368	21800				
367					
366	21700				
365					
364	21600				
363					
362	21500				
361					
360	21400				

[P. 43 Topography for Stations 360 through 384 in the preceding Table, with this page numbered 41 by Tweedy; here he refers to a blaze on a beech near line, and two high hills]



41

little side hill  
← almost level

Top of high hill

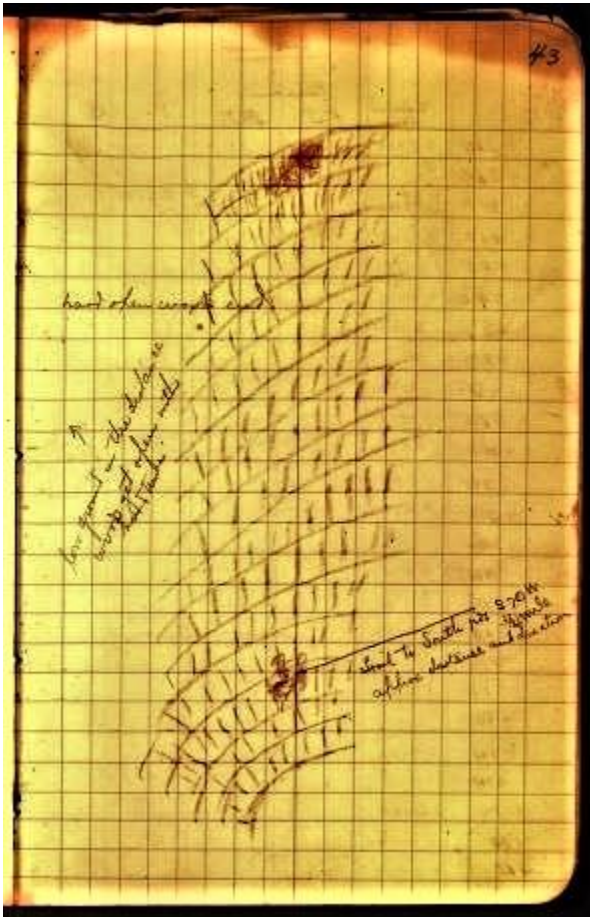
Blazed on beech 1.3 diam W of line

Very fine hard timber  
open woods

[P. 44- Table for Stations 385 to 409 along the T&C Line from the NW Corner, with 1 Temp & Barometer reading made and 1 F.S.-B.S. Bearing taken]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
409					
408	23800				
407					
406	23700				
405					
405	23600				
403					
402	23500				
401					
400	23400				
399					
398	23300				
397					
396	23200				
395					
394	23100				
393					
392	23000			2 PM T 78 T 72	B 27.8
391					
390	22900				
389		S 27 E			
388	22800		N 27.5 W		
387					
386	22700				
385					

[P. 45 Topography for Stations 385 through 409 in the preceding Table, with this page numbered 43 by Tweedy; here he refers to a trail to South Ponds on low ground]



43

hard open woods end



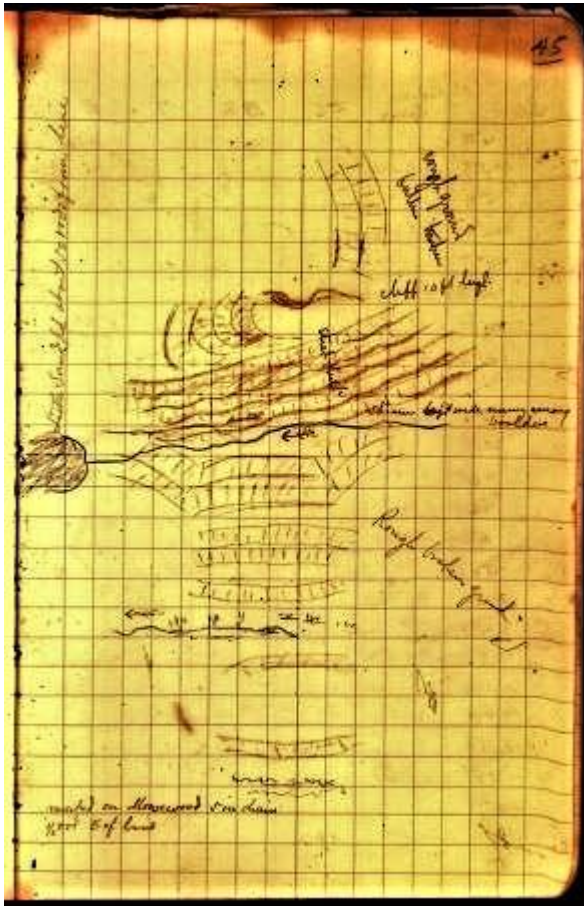
low ground  
in the distance  
woods yet open  
with hard timber

Trail to South Pds  
S 70 W,  $\frac{3}{4}$  mile  
approx. distance  
and direction

[P. 46- Table for Stations 410 to 434 along the T&C Line from the NW Corner, with 2 Temp & Barometer readings made]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
434	25100				
433					
432	25000			4:30 PM T 75° T 69°	B 27.80
431					
430	24900				
429					
428	24800				
427					
426	24700				
425					
424	24600				
423					
422	24500				
421					
420	24400				
419					
418	24300				
417					
416	24200				
415					
414	24100				
413					
412	24-000			3:15 PM T = 76° T = 72°	B = 27.89
411					
410	23900				

[P. 47 Topography for Stations 410 through 434 in the preceding Table, with this page numbered 45 by Tweedy; here he refers to Little Sand Pond 50 rods from the Line, near a cliff]



45

Little Sand Pd.  
about 50 rods  
from line

rough ground  
fallen timber

cliff 10 ft high

steep hill

stream 6 ft wide  
running among boulders

Rough broken ground

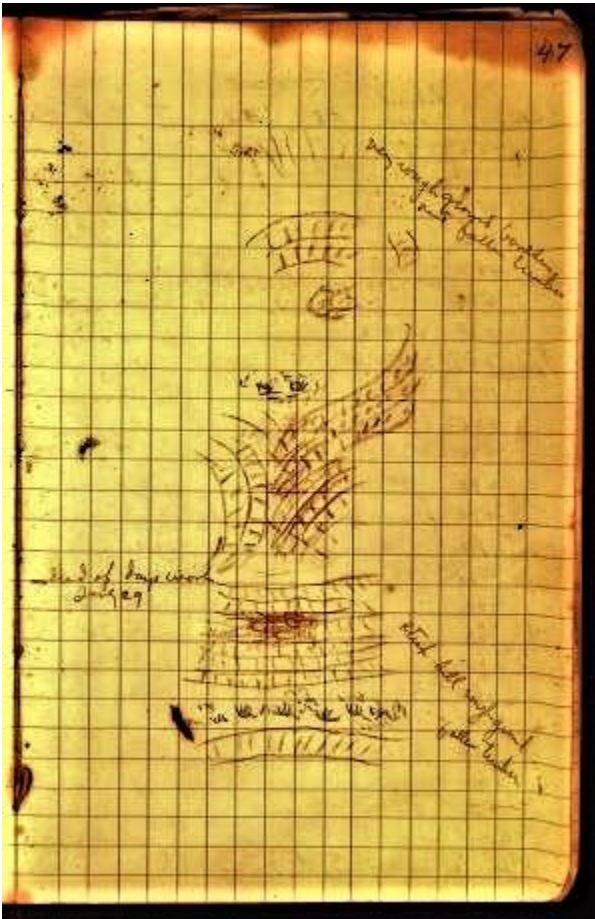
marked on Moosewood 5 in diam.  
1/2 rod E of line



[P. 48- Table for Stations 435 to 459 along the T&C Line from the NW Corner,  
with 1 Temp & Barometer reading made  
a stake found and the end of this day's work at Station 445]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
459					
458	26300				
457					
456	26200				
455					
454	26100				
453					
452	26000			12 PM T = 70 T = 69	B = 27.70
451		mountain maple stake 3 in diam			
450	25900				
449					
448	25800				
447					
446	25700				
445		end of days work July 29-78			
444	25600				
443					
442	25500				
441					
440	25400				
439					
438	25300				
437					
436	25200				
435					

[P. 49 Topography for Stations 435 through 459 in the preceding Table, with this page numbered 47 by Tweedy; here he refers to rough ground and fallen timber, with the end to this day's work on July 29]



47

very rough ground  
boulders and fallen timber

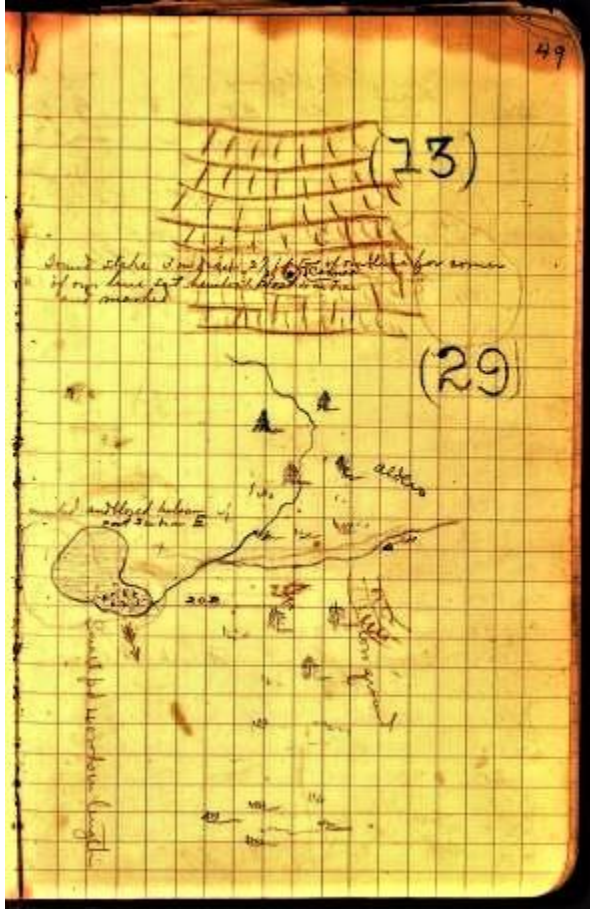
end of days work  
July 29

steep hill  
rough ground  
fallen timber

[P.50- Table for Stations 460 to 484 along the T&C Line from the NW Corner, with two temp & barometer readings and the 5-mile mark reached near the Watson Corner 25 and 29]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
484	27600				
483					
482	27500				
481				3:00 PM T = 71.5° T 70°	B 27.6
480	27400				
479					
478	27300				
477 +46	27396	= corner 13 & 29 Watson, distance by Snell 27376.8			
476	27200				
475					
474	27100				
473					
472	27000			1 PM T = 70° T = 68°	B 27.75
471					
470	26900				
469					
468	26800				
467					
466	26700				
465					
464	26600				
463					
462	26500				
461					
460	26400	(5 M)			

[P. 51 Topography for Stations 460 through 484 in the preceding Table, with this page numbered 49 by Tweedy; here the Corner of Townships 13 & 29 of Watson was found and a post set near a small pond]




49

(13)

Found stake 3 in diam 2 ½ ft fr our line for corner

Corner of our line set hemlock post 4 in diam



and marked

(29)

alders


marked and blazed balsam post 3 in diam E

29 R

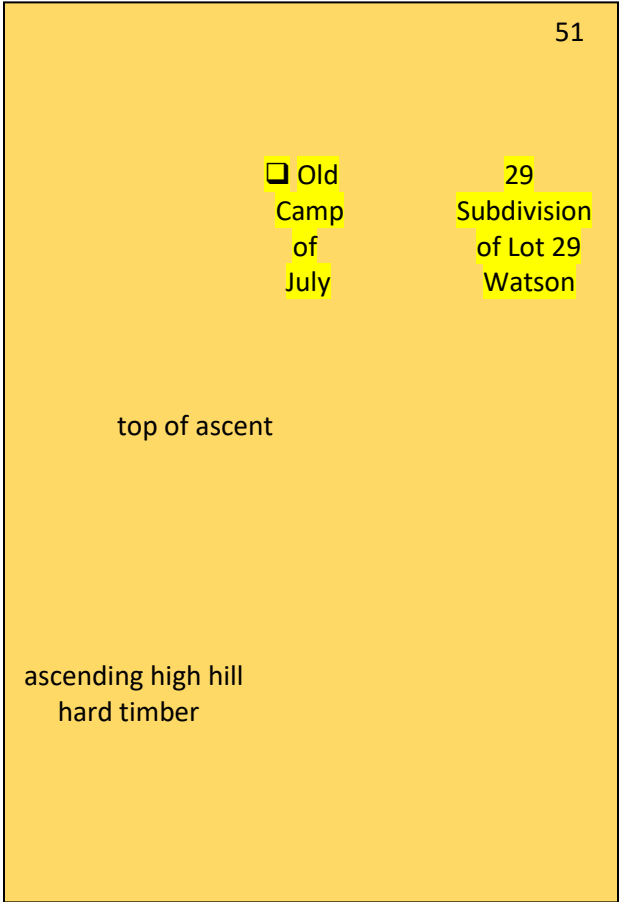
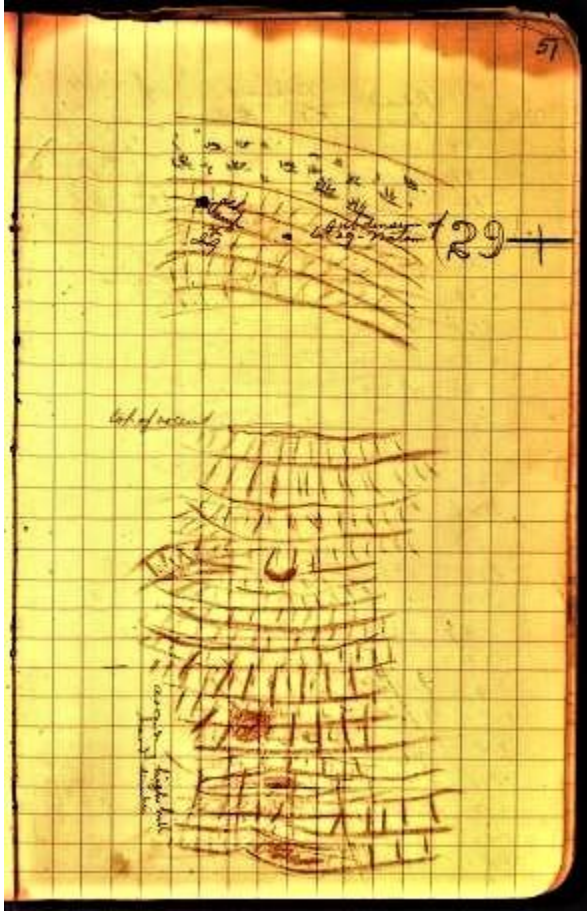
low ground

small pond 40 rods in length

[P.52- Table for Stations 485 to 505 along the T&C Line from the NW Corner, with one temp & barometer reading and a Watson Subdivision marker at Station 506]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
509					
508	28800				
507					
506 +19	28719	Subdivision of Lot 29 Watson, found old post marked 1854 set near spruce post 4 in diam and marked corner two feet W of line			
					
505					
504	28600				
503					
502	28500				
501					
500	28400				
499					
498	28300				
497					
496	28200				
495					
494	28100				
493				3:30 PM T 70° T 69°	B 27.65
492	28000	blazed and marked beech 1 ft diam in line			
491					
490	27900				
489					
488	27800				
487					
486	27700				
485					

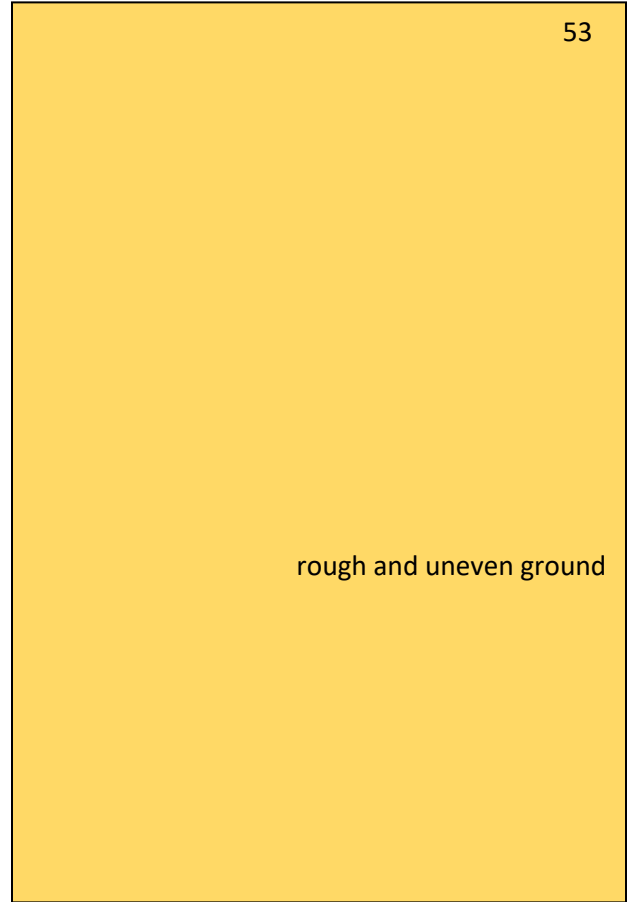
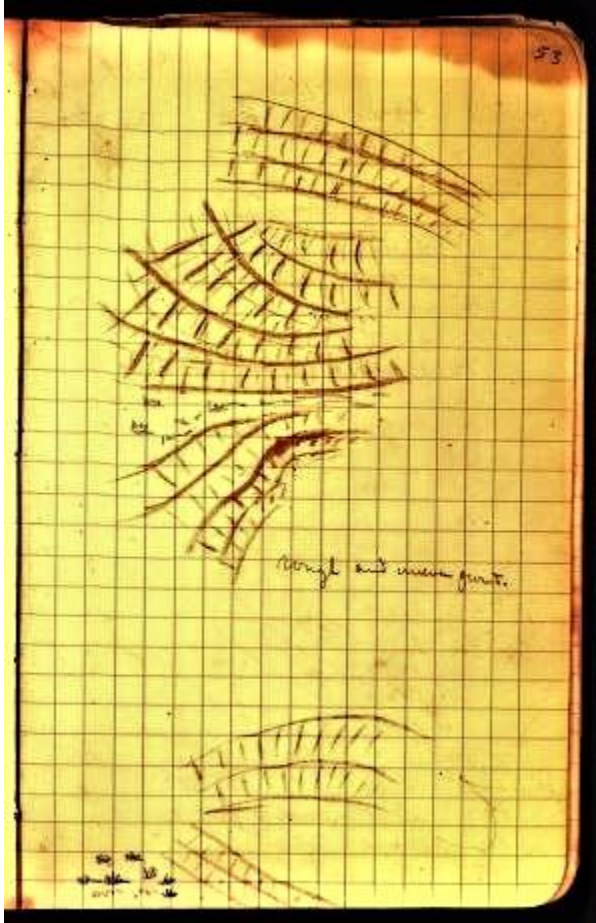
[P. 53 Topography for Stations 485 through 505 in the preceding Table, with this page numbered 51 by Tweedy; here the Subdivision of Lot 29 in Watson he located, dated 1854, with his old Camp from July nearby]



[P.54- Table for Stations 510 to 534 along the T&C Line from the NW Corner, with 2 temp & barometer readings and marked trees at the thousand marks, where those temp and barometer readings were taken]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
534	30100				
533					
532	30000	marked maple 3 in diam E of line		5:50 PM T = 67° T = 62°	B = 27.63
531					
530	29900				
529					
528	29800				
527					
526	29700				
525					
524	29600				
523					
522	29500				
521					
520	29400				
519					
518	29300				
517					
516	29200				
515					
514	29100				
513					
512	29000	maple tree E of line 1 ft diam		4:45 PM T = 70° T = 66°	B 27.61
511					
510	28900				

[P. 55 Topography for Stations 510 through 534 in the preceding Table, with this page numbered 53 by Tweedy; the only notation here was that the terrain was "rough and uneven ground"]

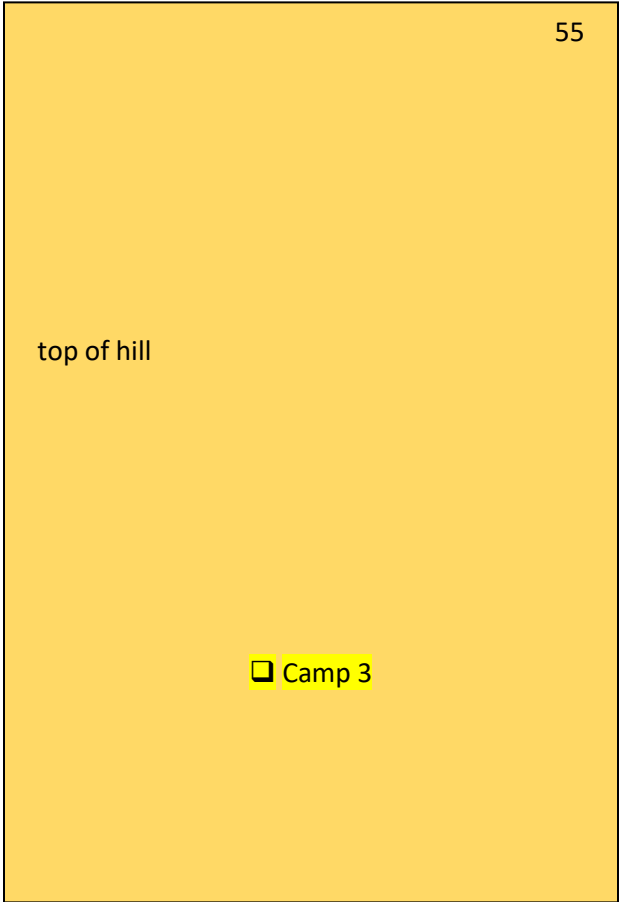
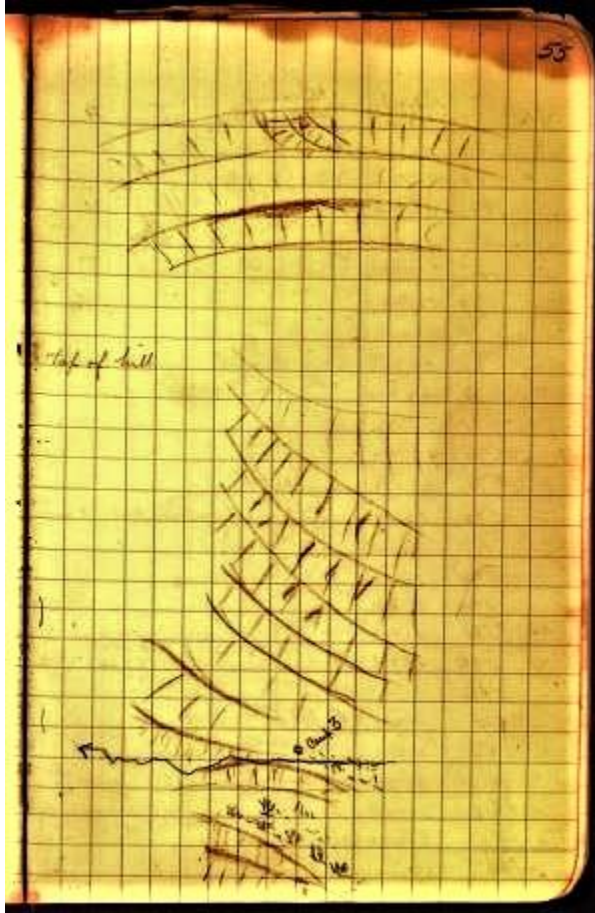




[P.56- Table for Stations 535 to 559 along the T&C Line from the NW Corner, with 1 temp & barometer reading at the 31,000 ft mark, with blazed spruce, and notation about the end of work for July 30<sup>th</sup>]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
559					
558	31300				
557					
556	32200				
555					
554	31100				
553					
552	31000	blazed spruce one foot diam E. of line		8:30 AM 71° 69°	27.58
551					
550	30900				
549					
548	30800				
547					
546	30700				
545					
544	30600				
543					
542	30500				
541					
540	30400				
539		S 28.5 E			
538	30300		N 27.5 W		
537		end of days work July 30- 78			
536	30200				
535					

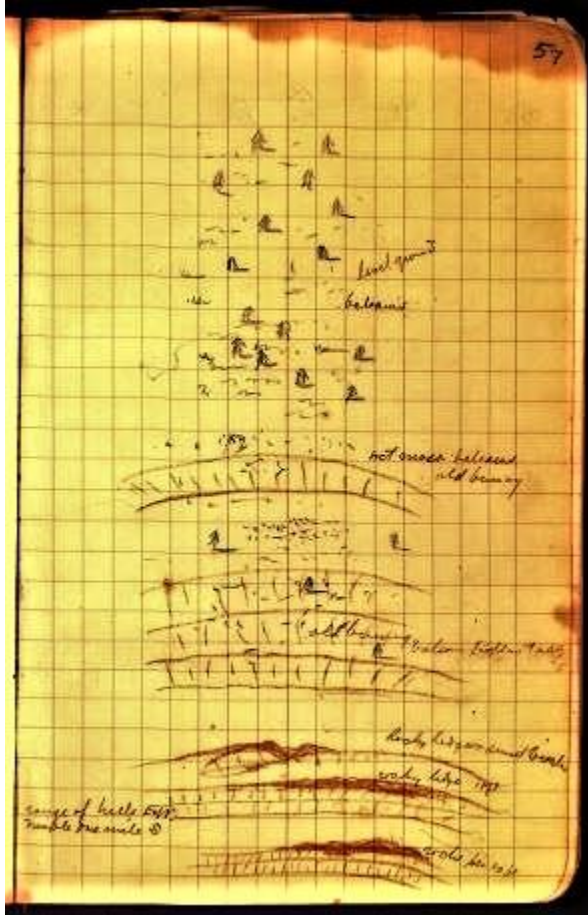
[P. 57 Topography for Stations 535 through 559 in the preceding Table, with this page numbered 55 by Tweedy; the only notations here are the top of a hill and location of Camp No. 3 on a stream]



[P.58- Table for Stations 560 to 584 along the T&C Line from the NW Corner, with 2 temp & barometer readings, one at the 32,000 ft mark, the other at the 6 Mile-mark]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
584	32600				
583	32550				
582	32500				
581	32450				
580	32400				
579	32350				
578	32300				
577	32250				
576	32200				
575	32150				
574	32100				
573	32050				
572	32000			10 AM T = 80° T = 79.5°	B 27.655
571	31950				
570	31900				
569	31850				
568	31800				
567	31750				
566	31700				
565	31650 + 30	(6M)		9:30 AM T = 29° T = 76.5	B = 27.64
564	31600				
563	31550				
562	31500				
561	31450				
560	31400				

[P. 59 Topography for Stations 535 through 559 in the preceding Table, with this page numbered 57 by Tweedy; the only notations here are the top of a hill and location of Camp No. 3 on a stream]



57

level ground  
balsams

wet moss, balsams  
old burning

Rocky ledge & small birches

rocky ledge, 15 ft

range of hills E.W.  
nearly one mile S.

rocks bea.? 10 ft

[P.60- Table for Stations 585 to 609 along the T&C Line from the NW Corner, with 1 temp & barometer reading and a post blazed at the 33,000 ft point, and F.S. & B.S. Bearings taken by two creeks, with reference to the "Ad Sur" Line]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
609					
608	33800				
607					
606	33700				
605	33650				
604 + 9	33609 33600	S 26.5° E			
603 +14.2	33564.2 33550	S 0° E Great creek on line	N 0° W		
602	33500		N 27.5 W Ad Sur line 2 rods E of line		
601					
600	33400				
599					
598	33300				
597					
596	33200				
505					
504	33100				
593 + 40	33090 33050	Creek S 27.5 E			
592	33000	marked and blazed larch		12 PM T = 80° T = 79°	B 27.63
591	32950		N 28 W		
590	32900				
589	32850				
588	32800				
587	32750				
586	32700				
585	32650				

[P. 61 Topography for Stations 585 through 609 in the preceding Table, with this page numbered 59 by Tweedy; the only notation here is to identify the river that follows the Line as Middle Branch of the Oswegatchie]



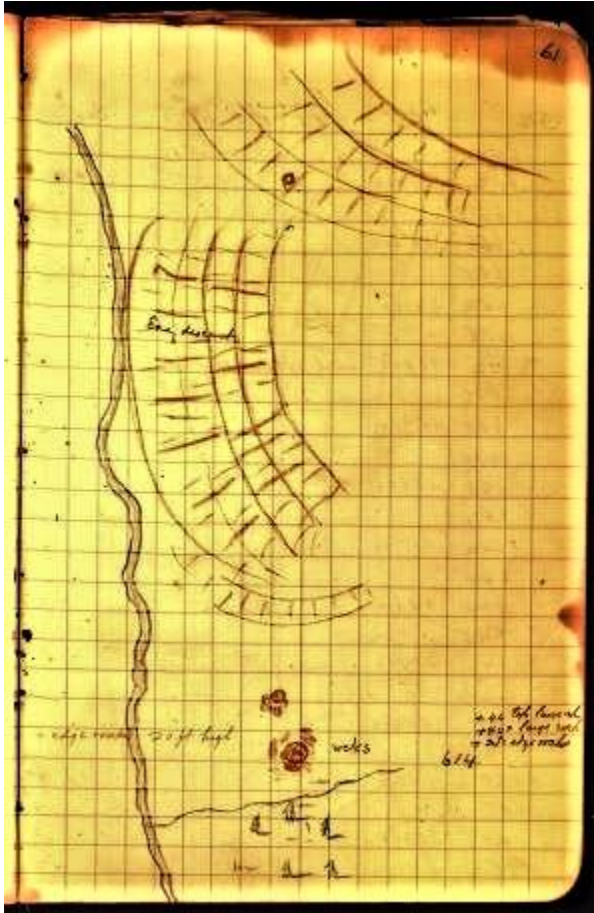
59

Middle branch of Oswegatchie →

[P.62- Table for Stations 610 to 634 along the T&C Line from the NW Corner, with one temp & barometer reading taken, one at the 34,000 ft point]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
634	35100				
633					
632	35000			3 PM 80° = T 78° = T	27.57 = B
631					
630	34900				
629					
628	34800				
627					
626	34700				
625					
624	34600				
623					
622	34500				
621					
620	34400	S 28 E			
619 +8.5	35358.5 34350		N 26.5 W		
618	34300				
617	34250				
616	34200				
615	34150				
614 +25	34125 34100				
613	34050				
612 +40	34040 34000			1:30 PM T = 79 T = 77.5	B = 27.56
611					
610	33900				

[P. 63 Topography for Stations 610 through 634 in the preceding Table, with this page numbered 61 by Tweedy; this line again follows the Oswegatchie, with huge rocks beside the shore, and exact distances from River noted]



61

Easy descent

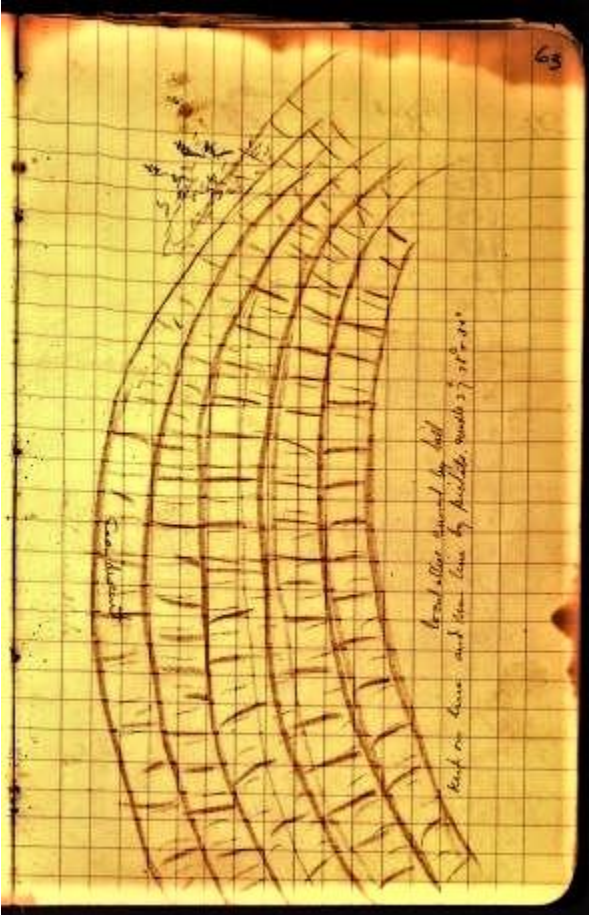
-edge rocks 20 ft high  
rocks  
+46 top large spruce  
614 +40 = large rock  
+25 = edge rocks



[P.64- Table for Stations 635 to 659 along the T&C Line from the NW Corner, with one temp & barometer reading taken at the 36,000 ft point, and a note about August 5<sup>th</sup>]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
659					
658	36300				
657					
656	36200				
655					
654	36100				
653					
652	36000	beach 1 ft diam W of line		4:30 PM 78° 76° Aug5 12:45 PM T = 80° (det)	27.52
651					
650	35900				
649					
648	35800				
647					
646	35700				
645					
644	35600				
643					
642	35500				
641					
640	35400				
639					
638	35300				
637					
636	35200				
635					

[P. 65 Topography for Stations 635 through 659 in the preceding Table, with this page numbered 63 by Tweedy; here Tweedy noted some incident affecting the survey work, either a bull moose or hail? and something about "pickets" which may suggest a farmer's bull]



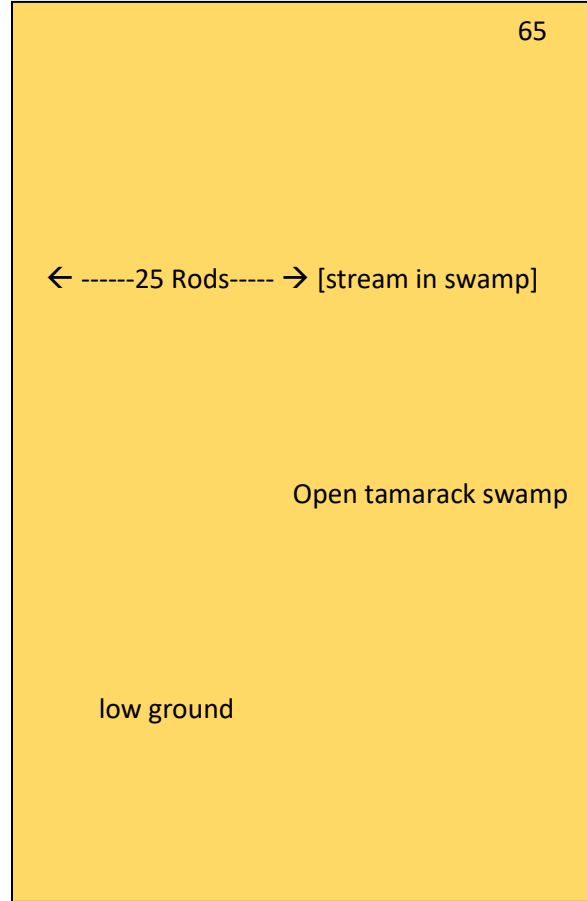
Easy descent

63  
local altiac?  
caused by bull?  
Keep on line  
and run line  
by pickets,  
needle 27°,  
28°, 29°

[P.66- Table for Stations 660 to 684 along the T&C Line from the NW Corner, with one temp reading taken at the 37,000 ft point, August 5<sup>th</sup>, but no B due to a broken Barometer; Tweedy reached the 7 Mile-mark on this southern half, and was compelled to angle away from the T&C Line for some reason, unstated]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
684	37600				
683					
682	37500				
681					
680	37400				
679					
678	37300				
677					
676	37200				
675					
674	37100				
673	37050				
672	37000			T = 80 1 PM Aug 5-78	The broken Barometer prevents taking any more obs
671 +10	36960 36950	(7 M)	on maple stake 3 in diam		
670	36900				
669					
668	36800				
667					
666	36700				
665					
664	36600				
663	36550	S 27.5 E			
662 + 47.5	36547.5 36500		N 8 W		
661	36450	S 8° E			
660 +26.5	36426.5 36400		N 28 W	x	compelled to angle to outer? line

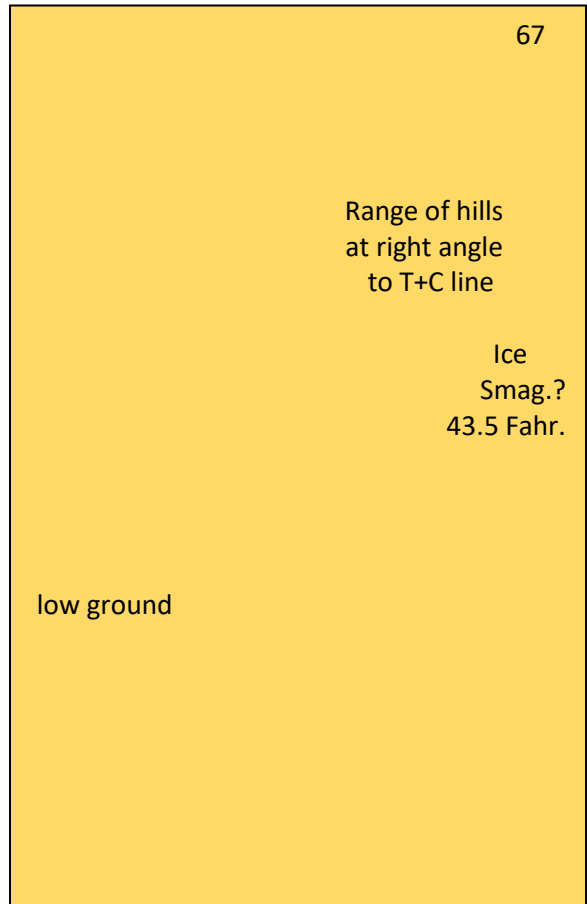
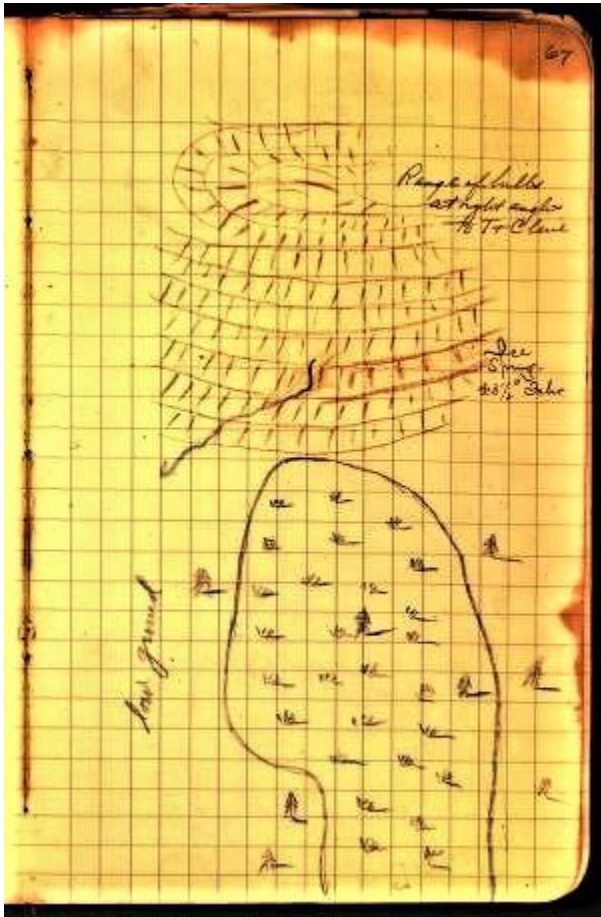
[P. 67 Topography for Stations 660 through 684 in the preceding Table, with this page numbered 65 by Tweedy; here Tweedy sketched an open tamarack swamp with a 25-rod stream flowing through it; probably the swamp forced him and his crew to angle out around the wet ground]



[P.68- Table for Stations 685 to 709 along the T&C Line from the NW Corner, with one temp reading taken at the 38,000 ft point, no barometer. A post on tamarack marked this point, with mention of an "Ad Sur" Line, probably "Adirondack Survey"]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
709					
708	38800				
707					
706	38700				
705					
704	38600				
703					
702	38500				
701					
700	38400				
699					
698	38300				
697					
696	38200				
695					
694	38100				
693					
692	38000	tamarack post 3 in diam...	Ad Sur line 18.5 feet W of old line	T 79° 2 PM	
691					
690	37900				
689					
688	37800				
687					
686	37700				
685					

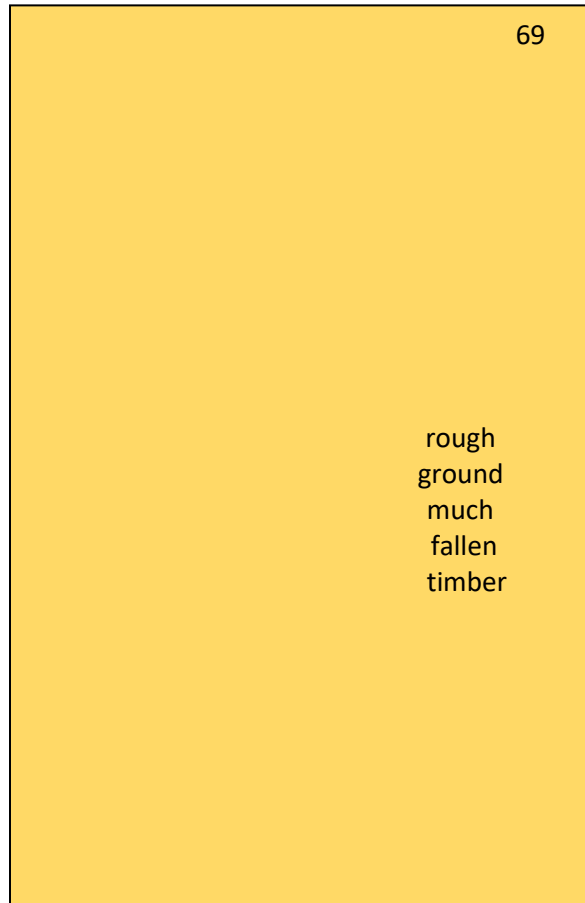
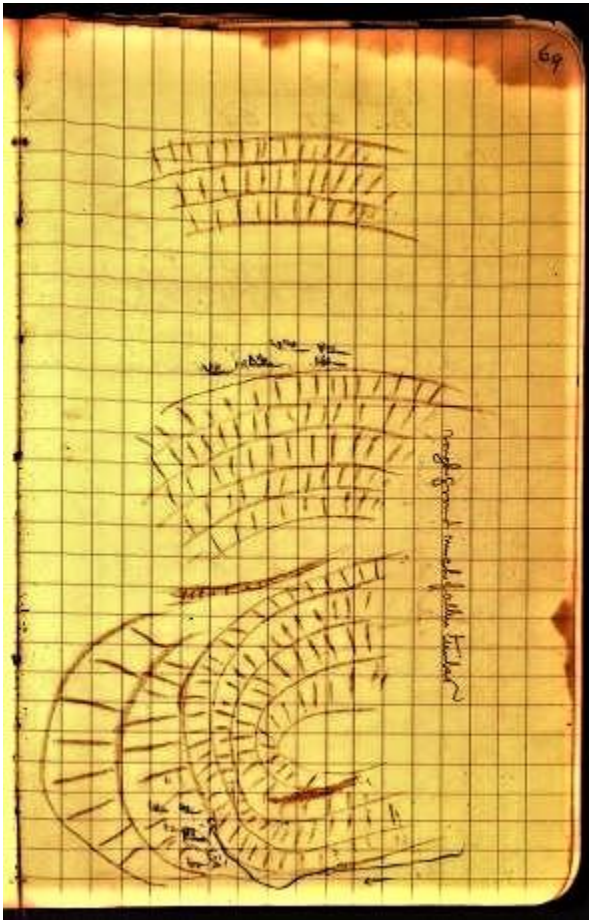
[P. 69 Topography for Stations 685 through 709 in the preceding Table, with this page numbered 67 by Tweedy; here Tweedy sketched another swamp, with a note that appears to be about ice, but that is doubtful at 43+ degrees]



[P.70- Table for Stations 710 to 734 along the T&C Line from the NW Corner, with 2 temp readings taken at the 40,000 & 39,000 ft points (no barometer). Posts were left marking these points]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
734	40100				
733					
732	40000	on balsam post 4 in diam		T = 78 4:40 PM	
731					
730	39000				
729					
728	39800				
727					
726	39700				
725					
724	39600				
723					
722	39500				
721					
720	39400				
719					
718	39300				
717					
716	39200				
715					
714	39100				
713					
712	39000	spruce 1 ft? diam E		T = 78.5 7:45 PM	
711					
710	38900				

[P. 71 Topography for Stations 710 through 734 in the preceding Table, with this page numbered 69 by Tweedy; here Tweedy sketched several hills with rough ground and much fallen timber]



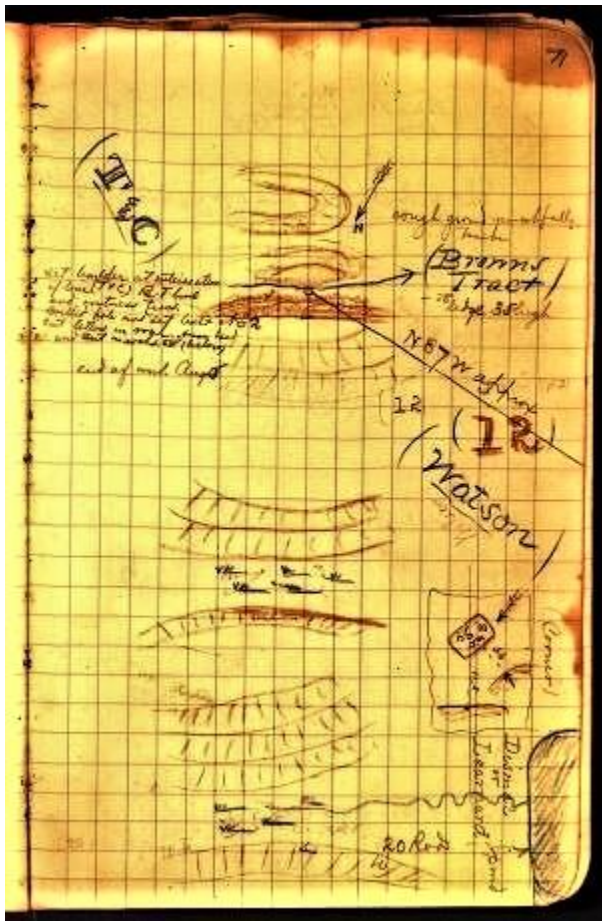
rough  
ground  
much  
fallen  
timber



[P.72- Table for Stations 735 to 759 along the T&C Line from the NW Corner, with a temp reading taken at the 41,000-ft point (no barometer). A post was left marking this point with a Corner of Brown's Tract and Watson discovered at the 41,157-ft point]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
759					
758	41300				
757					
756	41200				
755					
754 +47	41147 41100	Corner of Brown's Tract and Watson			
753					
752	41000	maple post 3 in diam		T = 77 4:20 PM	
751					
750	40900				
749					
748	40800				
747					
746	40700				
745					
744	40600				
743					
742	40500				
741					
740	49400				
739					
738	40300				
737					
736	40200				
735	40150				

[P. 73 Topography for Stations 735 through 759 in the preceding Table, with this page numbered 71 by Tweedy; here Tweedy sketched the major Corner of the T&C Purchase, Brown's Tract, and Watson, with his work on that Marker]



71

(T and C)                      rough ground  
                                               much fallen timber

Set boulder at intersection              (Browns  
of line (T&C, BT) line                      Tract)

and witness trees.

Drilled hole and set bolt No. 2              ledge

Cut letters in rock. Arrow head              35 ft  
and Cut in rocks. (below)                      high

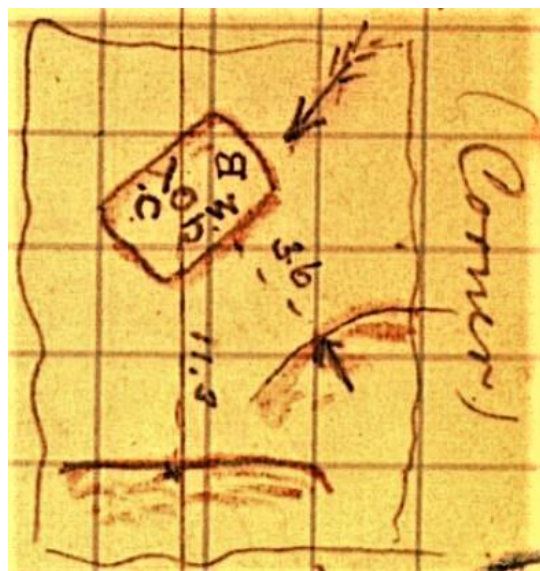
End of work Aug 6                      → N 87° W approx..

(12)  
(Watson)

[See  
Corner Insert  
Below]

Dismal or  
Leopard Pond  
20 Rods

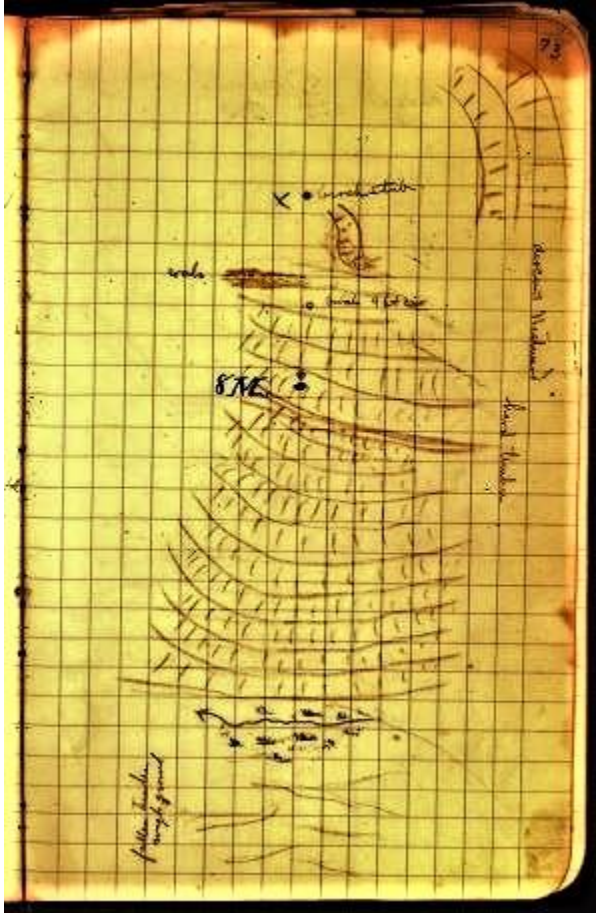
[Insert of T&C-Brown's Tract-Watson Corner]



[P.74- Table for Stations 760 to 784 along the T&C Line from the NW Corner, with a temp reading taken at the 42,000-ft point (no barometer). A post was left marking this point with the 8 Mile-mark reached at Station 776]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
784	42600				
783					
782 +40.5	42540.5 42500	beech stub 8 ft in marked	M. & 2 figures obliterated		
781					
780	42400				
779					
778	42300				
777					
776	42200	(8 M)			
775					
774	42100				
773					
772	42000	on ? wood stake 3 in diam		9:50 AM T = 69.5	
771					
770	41900				
769					
768	41800				
767					
766	41700				
765					
764	41600	end 2 <sup>nd</sup> max?			
763					
762	41500				
761					
760	41400				

[P. 75 Topography for Stations 760 through 784 in the preceding Table, with this page numbered 73 by Tweedy; here Tweedy sketched a westward descent with several stubs on line and the 8 Mile-mark reached]



73

x Birch stub

rocks

beech 9 ft cir

descent westward

8 M x

hard timber

fallen timber  
rough ground

[P.76- Table for Stations 785 to 809 along the T&C Line from the NW Corner, with a temp reading taken at the 44,000-ft point (no barometer). A post was left marking this point. Tweedy & crew reached the edge of Hawk Lake at Station 801]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
809					
808	43800				
807					
806	43700				
805					
804	43600				
803					
802					
801	43450	edge Hawk Lake			
800	43400				
799					
798 +11.5	43311.5 43300	edge Hawk Lake			
797	43250				
796	43200				
795					
794	43100				
793					
792	43000	maple tree 6 in diam E		10:30 AM T = 72°	
791					
790	42900				
789					
788	42800	S 29° E			
787 +10.5	42760.5 42750				
786	72700		N 27.5° W		
785					

[P. 77 Topography for Stations 785 through 809 in the preceding Table, with this page numbered 75 by Tweedy; here Tweedy sketched the East end of Hawk Lake with several ledges at the Outlet, noting that from this point on Mr. Snell's compass was used]



75

rocks 10 ft high

Gully

X From this point Mr. Snell's X  
compass was used

ledge 20 ft  
outlet

about 300 ft above  
Salmon lake

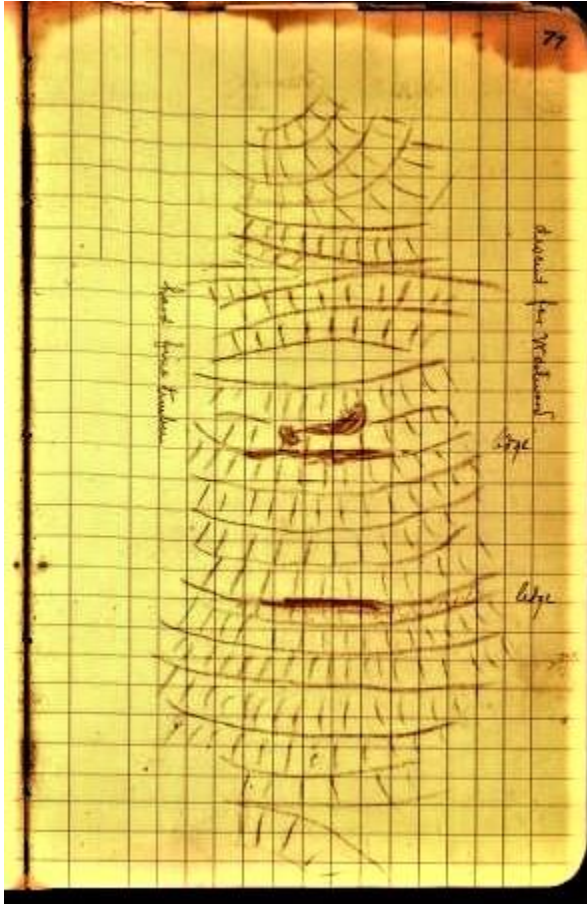
Hawk L

good hard timber descent W  
formally? fine spruce

[P.78- Table for Stations 810 to 834 along the T&C Line from the NW Corner, with two temp readings taken at the 44,000-ft & 45,000-ft points (no barometer). Posts were left marking each point]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
834	45100				
833					
832	45000	on spruce 5 in diam W		12:30 PM T = 69	
831					
830	44900				
829					
828	44800				
827					
826	44700				
825					
824	44600				
823					
822	44500				
821					
820	44400				
819					
818	44300				
817					
816	44200				
815					
814	44100				
813					
812	44000	on moosewood stake 4 in diam		11:50 AM T = 71°	
811					
810	43900				

[P. 79 Topography for Stations 810 through 834 in the preceding Table, with this page numbered 77 by Tweedy; here Tweedy sketched mountainous terrain with two rock ledges highlighted]



77

hard  
fine  
timber

descent  
for  
Westward

ledge

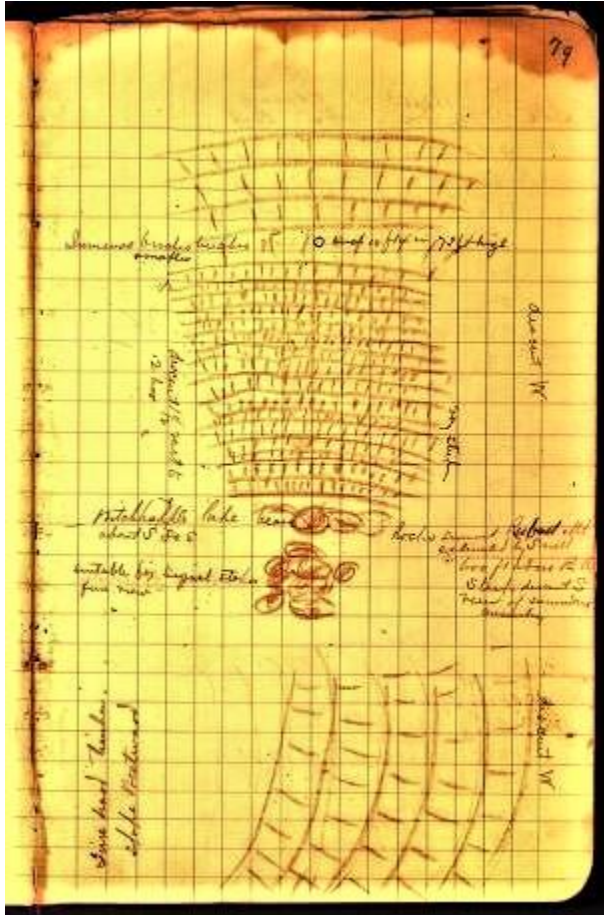
ledge



[P.80- Table for Stations 835 to 859 along the T&C Line from the NW Corner, with one temp reading taken at the 46,000-ft point (no barometer). a spruce post was marked for that point & Station 847 located on Rubart Mtn]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
859					
858	46300				
857					
856	46200				
855					
854	46100				
853					
852	46000	marked on spruce stake 8 in diam		2 PM T = 73°	
851					
850	45900				
549					
848	45800				
847	45750	Rubart Mt (summit)			
846	45700				
845					
844	45600				
743					
842	45500				
841					
840	45400				
839					
838	45300				
837					
836	45200				
835					

[P. 81 Topography for Stations 835 through 859 in the preceding Table, with this page numbered 79 by Tweedy; here Tweedy sketched the rocky top to Rubart Mountain, with interesting comments about Snell's estimate of its height above Beaver River, its suitability for a signal tower with its view of the surrounding area; Witchhopple Lake nearby]



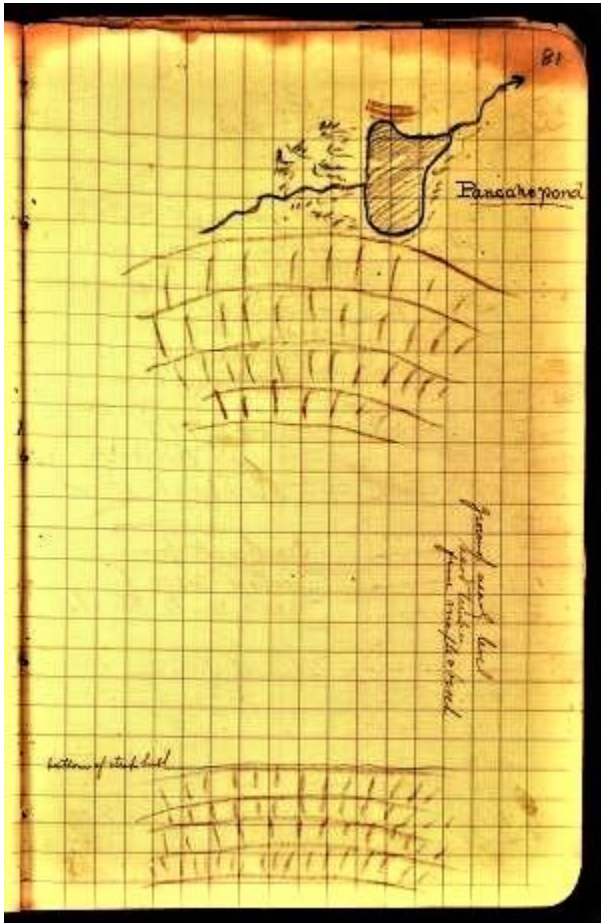
79

Immense birches, beeches & maples	birch 10 ft in circumf. 75 ft high
descent 1 ½ vert to 2 hop?	descent W very steep
	Rock summit Rubart Mt estimated by Snell 600 ft above B.R. Steep descent S View of surrounding country
fine hard timber slope Westward	descent W.

[P.82- Table for Stations 860 to 884 along the T&C Line from the NW Corner, with one temp reading taken at the 47,000-ft point (no barometer). a yellow birch post marked for that point & Mile-mark 9 reached at Station 882]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
884	47600				
883					
882 +20	46520 47500	9 Miles			
881					
880	47400				
879					
878	47300				
877					
876	47200				
875					
874	47100				
873					
872	47000	marked yellow birch 1 foot diam E		2:50 PM T = 71°	
871					
870	46900				
869					
868	46800				
867					
866	46700				
865		S 27° E			
864 +31.5	46631.5 46600		N 28° W		
863					
862	46500				
861					
860	46400				

[P. 83 Topography for Stations 860 through 884 in the preceding Table, with this page numbered 81 by Tweedy; here Tweedy sketched Pancake Pond near a steep hill with level ground and good timber]



81

Pancake Pond

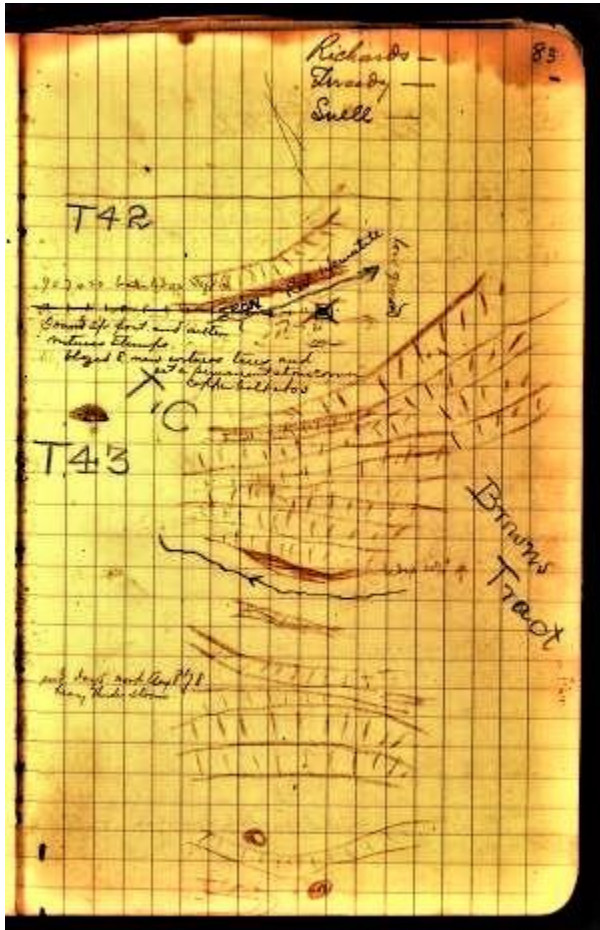
ground nearly level  
hard timber  
fine maple & birch

bottom of steep hill

[P. 84- Table for Stations 885 to 901 along the T&C Line from the NW Corner, with one temp reading taken at the 48,000-ft point (no barometer). a moosewood post marked for that point & history of survey measurements for T&C Corner of Township 43 & 42, including an 1815 (Richards), an 1854 Survey by Snell, and this 1878 Adirondack Survey; then there is the comment and signature by Verplanck Colvin verifying 1878]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
909		In 1815 line was S 31.5° E (Richards Survey)			
908 +40 +20	48800	In 1854 bearing (Snell) S 28.5 E			
907					
906 +17	48717 48700	Old line 445 feet W to Corner of (42 & 43)	T. 42 & 43 by Snell = (48625 by S) 740.60 chains	Richards Sur. 1815= (48879.6)	Ad Sur 1878 = 47717
905					
904	48600				
903					
902	48500		48,717 feet is correct <b>Verplanck Colvin</b> ----- See back page 5 where 3400 feet was run to Sta 1		
901					
900	48400				
899					
898	48300				
897					
896	48200				
895					
894	48100				
893					
892	48000	marked moosewood 4 in diam E		8:30 AM Aug 10 T = 63°	
891					
890	47900				
889					
888	47800				
887					
886	47700				
885					

[P. 85 Topography for Stations 885 through 909 in the preceding Table, with this page numbered 83 by Tweedy; here Tweedy sketched the important Corner of T&C Township 43 & 42, with Bolt No. 3 & Witness Trees' He listed, without comment, the 3 Surveys for this Corner, and he noted the finish of the day's survey work on Aug 8, 1878 with heavy thunder storms]



Richards- 83  
 Tweedy-  
 Snell-

T 42

907 +20 ? ledge 30 ft? Low ground  
 IRON Red Hematite

I found sp. post and ?  
 witness stumps.  
 Blazed 8 new witness trees  
 and set a permanent stone  
 corner, copper bolt No. 3

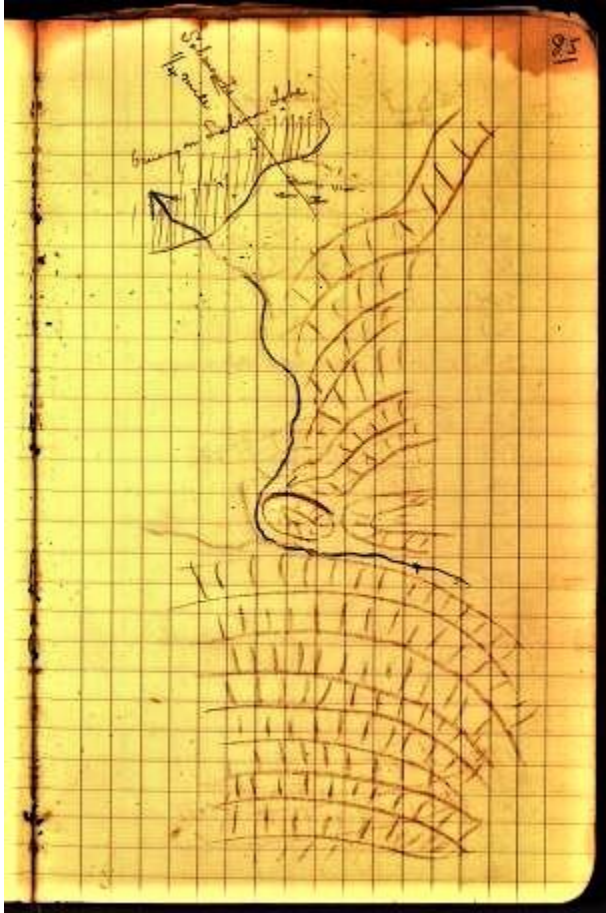
Browns  
 ledge 20.5 ft Tract

end days work Aug 8'78  
 heavy thunder storms

[P.86- Table for Stations 910 to 934 along the T&C Line from the NW Corner, with two temp readings taken at the 49,000 & 50,000-ft point (no barometer). post or stakes were placed marking those points]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
934	50100				
933					
932	50000	yellow birth 2 ft diam off E old line about 10 ft W		11:15 AM T = 68	
931					
930	49900				
929					
928	49800				
927					
926	49700				
925					
924	49600				
923					
922	49500				
921					
920	49400				
919					
918	49300				
917	49250				
916	49200				
915					
914	49100				
913					
912	49000	marked hemlock stake 4 in diam		10:10 AM T = 65	
911					
910	48900				

[P. 87 Topography for Stations 910 through 934 in the preceding Table, with this page numbered 85 by Tweedy; here Tweedy sketched an arrow to Salmon Lake and made a notation that there was significant burning up to the Lake]



85

Salmon L.  
¼ mile

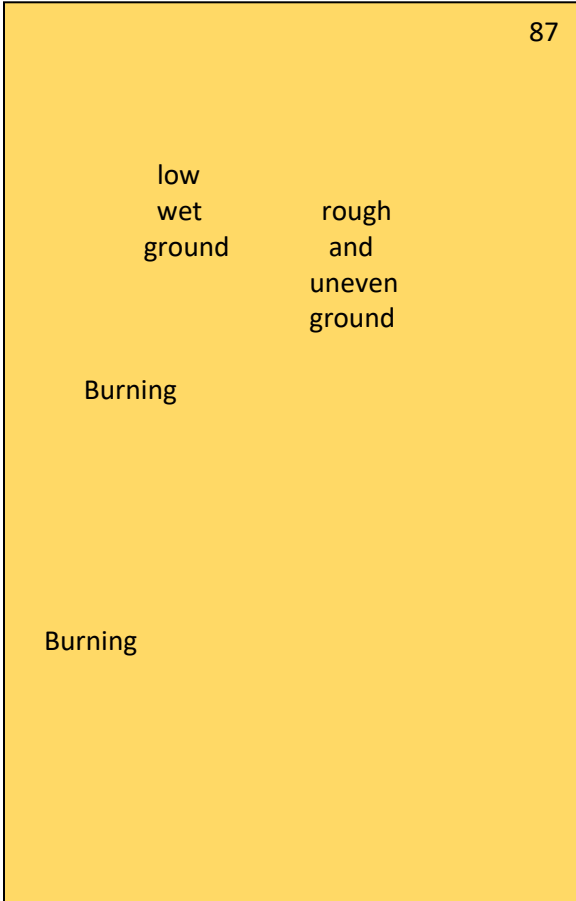
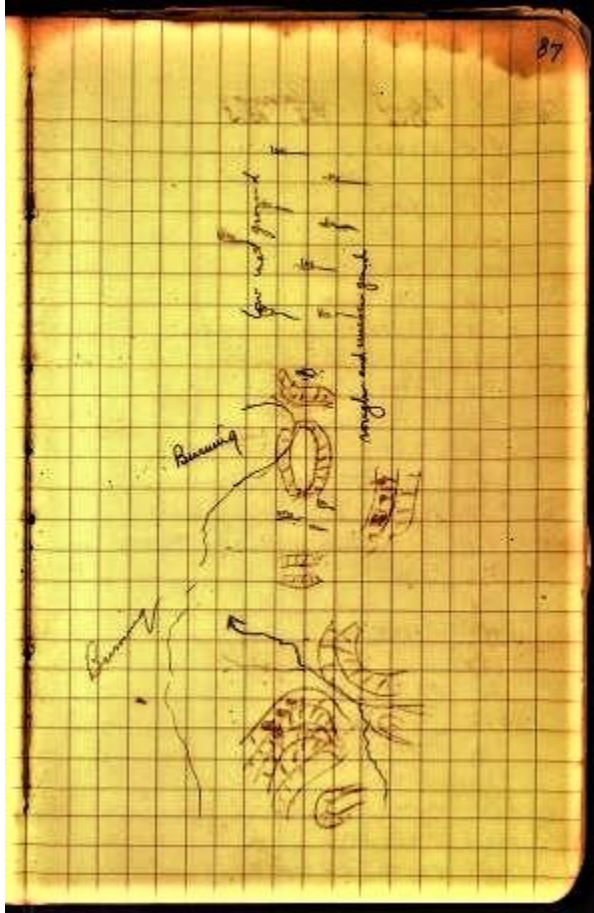
burning on Salmon Lake



[P.88- Table for Stations 935 to 959 along the T&C Line from the NW Corner, appears to have two errors, with Station 935 picking up at 49,150 feet instead of 50,050 ft, and then Station 950 skipping 50,200 and jumping from 49,900 to 51,000]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
959					
958	51300				
957					
956	51200				
955					
954	51100				
953					
952	51000	yellow birch stub 4 in diam		12:30 PM T = 68°	
951					
950	49900				
949					
948	49800				
947					
946	49700				
945					
944	49600				
943					
942	49500				
941					
940	49400				
939					
938	49300				
937		old line 5 ft W			
936	49200				
935					

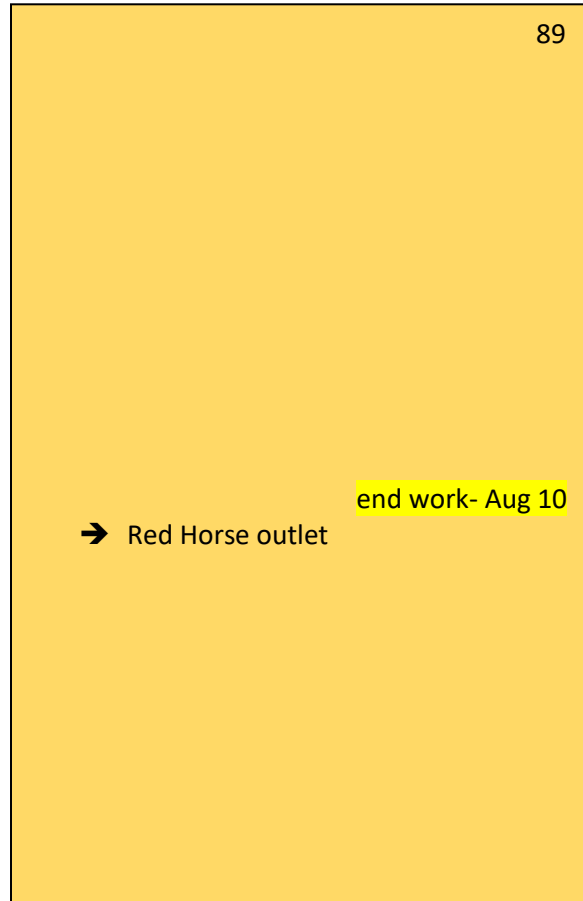
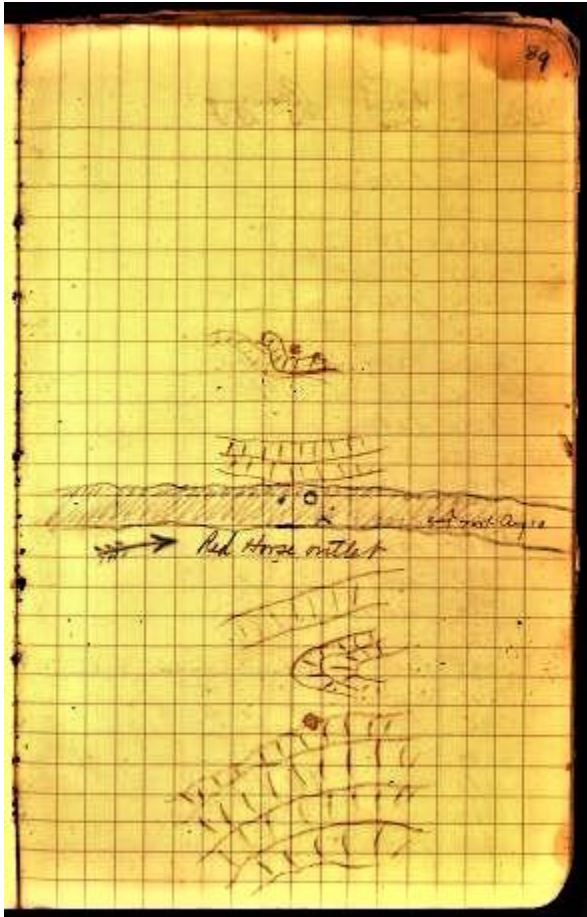
[P. 89 Topography for Stations 910 through 934 in the preceding Table, with this page numbered 87 by Tweedy; here Tweedy sketched an arrow to Salmon Lake and made a notation that there was significant burning up to the Lake in this area]



[P.90- Table for Stations 960 to 984 along the T&C Line from the NW Corner, with one Temp reading taken on the 52,000 ft point, where Tweedy noted the Red Horse Chain of ponds and lakes commenced]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
984	52600				
983					
982	52500				
981					
980	52400				
979					
978	52300				
977					
976	52200				
975					
974	52100				
973 +34		opposite side Red Horse			
972	52000	Red Horse set post on edge of stream		1:15 PM T = 70	
971					
970	51900				
969					
968	51800				
967					
966	51700				
965					
964	51600				
963					
962	51500				
961					
960	51400	Old line 3 ft E			

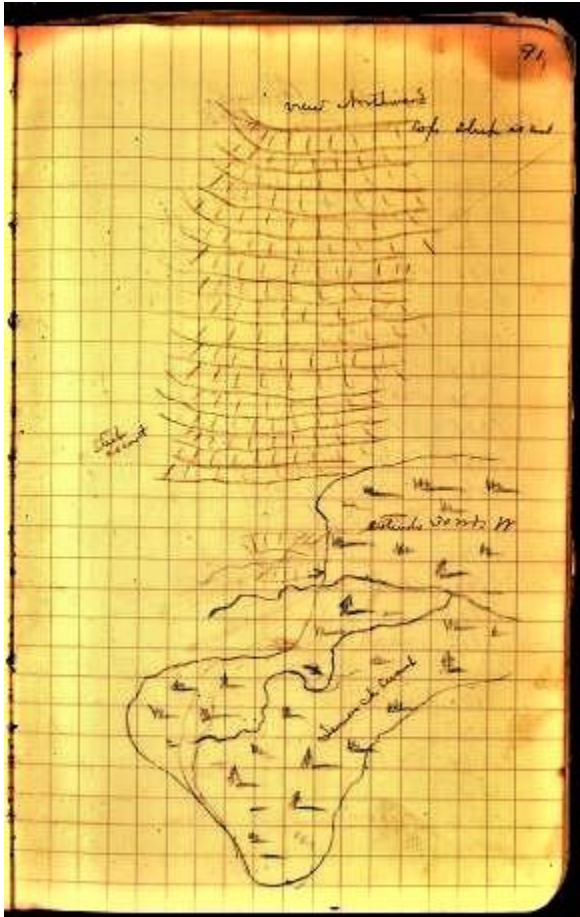
[P. 91 Topography for Stations 960 through 984 in the preceding Table, with this page numbered 89 by Tweedy; here Tweedy sketched the outlet to the Red Horse chain of ponds and lakes N or Beaver River, with the note that the crew ended their work for this day on Aug 10<sup>th</sup>]



[P.92- Table for Stations 985 to 1009 along the T&C Line from the NW Corner, with one Temp reading taken on the 53,000 ft point, a black cherry stake marked and a notation at Station 988 that the crew had reached its 10-Mile mark]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
1009					
1008	53800				
1007					
1006	53700				
1005					
1004	53600				
1003					
1002	53500				
1001					
1000	53400				
999					
998	53300				
997					
996	53200				
995					
994	53100				
993					
992	53000	black cherry stake 3 in diam		9 AM T = 66.5	
991					
990	52900				
989					
988	52800	10 Mls			
987					
986	52700				
985					

[P. 93 Topography for Stations 985 through 1009 in the preceding Table, with this page numbered 91 by Tweedy; here Tweedy sketched a very steep climb with a view Northward and an extensive Tamarack swamp at the bottom]



91

view Northward  
top steep as cut?

steep  
ascent

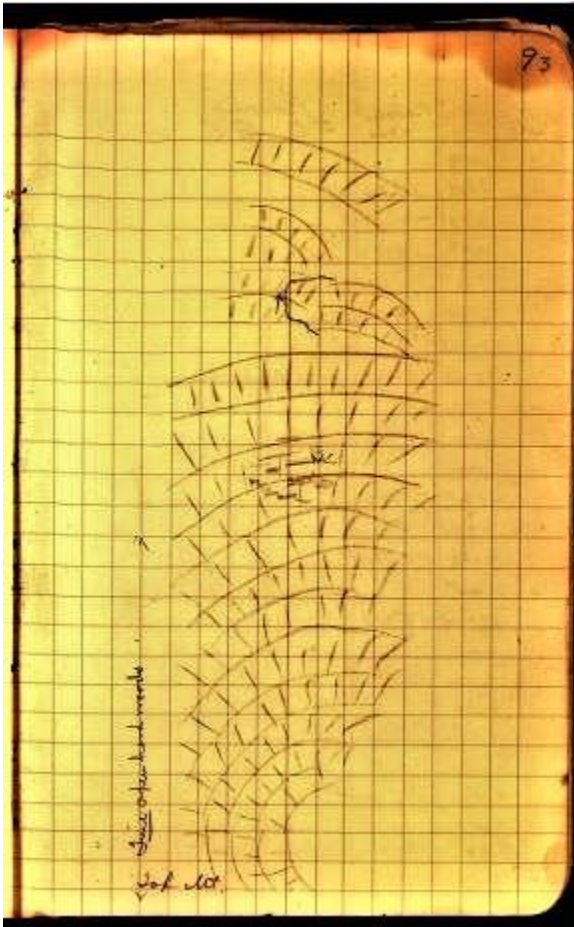
extends 30 rods

Tamarack swamp

[P.94- Table for Stations 1010 to 1034 along the T&C Line from the NW Corner,  
with two Temp readings taken on the 54,000 ft & 55,000-ft points,  
with beech posts marking those two Stations]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
1034	55100				
1033					
1032	55000	beech stump 5 in diam		10:20 AM T = 68°	
1031					
1030	54900				
1029					
1028	54800				
1027					
1026	54700				
1025					
1024	54600				
1023					
1022	54500				
1021					
1020	54400		S		
1019					
1018	54300				
1017					
1016	54200				
1015					
1014	54100				
1013					
1012	54000	beech post 3 in diam		9:50 AM T 65.5°	
1011					
1010	53900				

[P. 95 Topography for Stations 1010 through 1034 in the preceding Table, with this page numbered 93 by Tweedy; here Tweedy sketched the top of an unnamed mountain, noting fine hardwood forest]



93

Fine  
open  
hard  
woods

Top Mt.



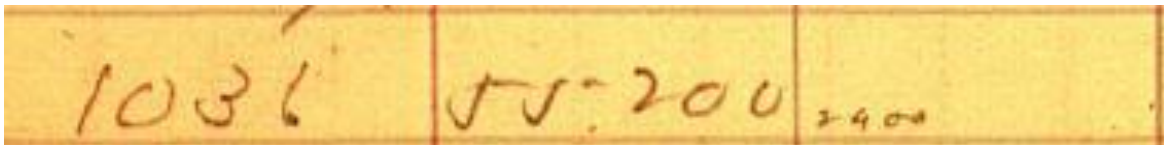
[P.96- Table for Stations 1035 to 1059 along the T&C Line from the NW Corner, with one Temp reading taken on the 56,000-ft point, no barometer reading, and a beech post marking that Station; note explanation for Tweedy #'s in 3<sup>rd</sup> column]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
1059					
1058	56300	3500			
1057					
1056	56200	3400			
1055					
1054	56100	3300			
1053					
1052	56000	beech stake 3 in diam		11 AM T = 70°	
1051					
1050	55900	3100			
1049					
1048	55800	3000			
1047					
1046	55700	2900			
1045					
1044	55600	2800			
1043					
1042	55500	2700			
1041					
1040 +10	55400	2600			
1039					
1038	55300	2500			
1037					
1036	55200	2400* [see below]			
1035					

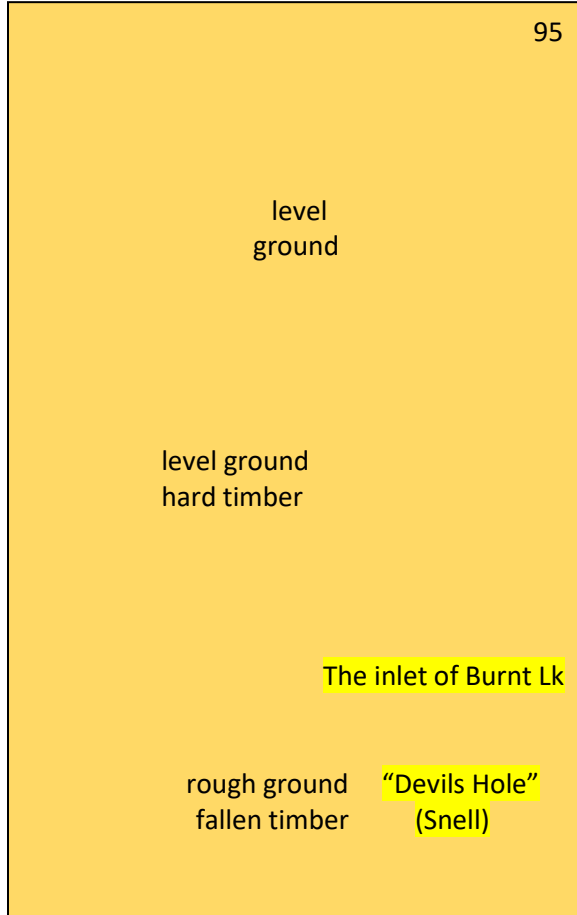
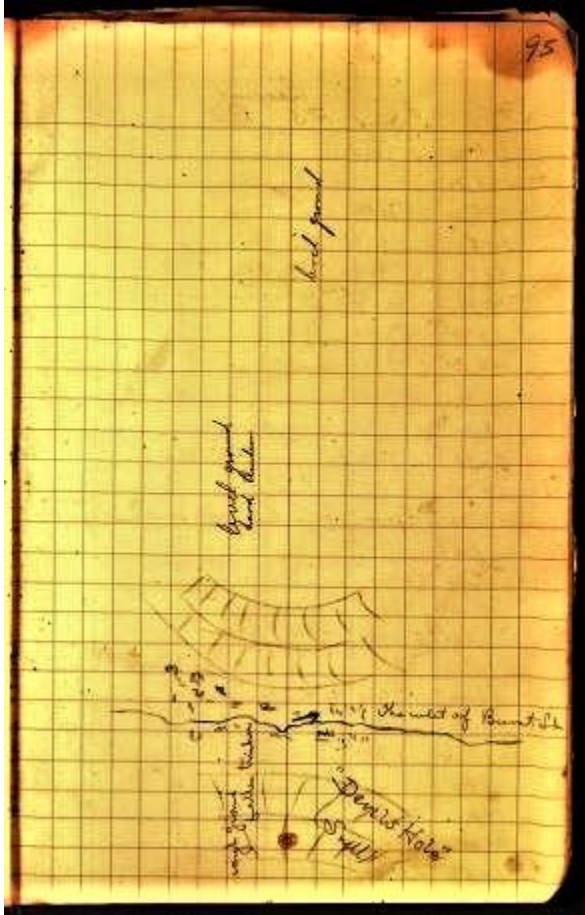
[Note from Station 1036-

Tweedy has been adding in small numbers to the right, a figure such as "2400" corresponding to his foot marks, descending by 100-foot intervals toward the end-point, Beaver River, so for 55400 "2600", for 55300 "2500", and for this 55,200 foot point, "2400";

Tweedy has been doing this for 6 or 7 pages now]



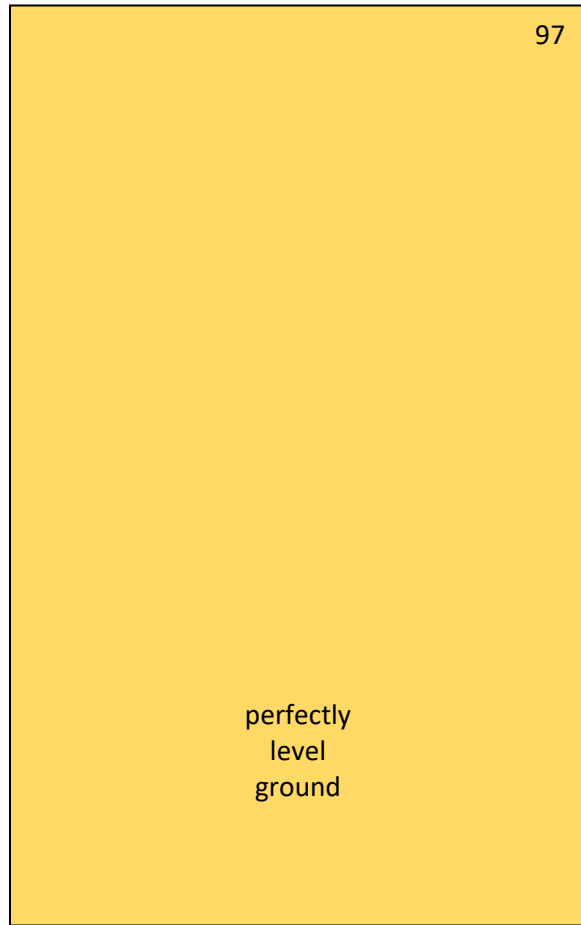
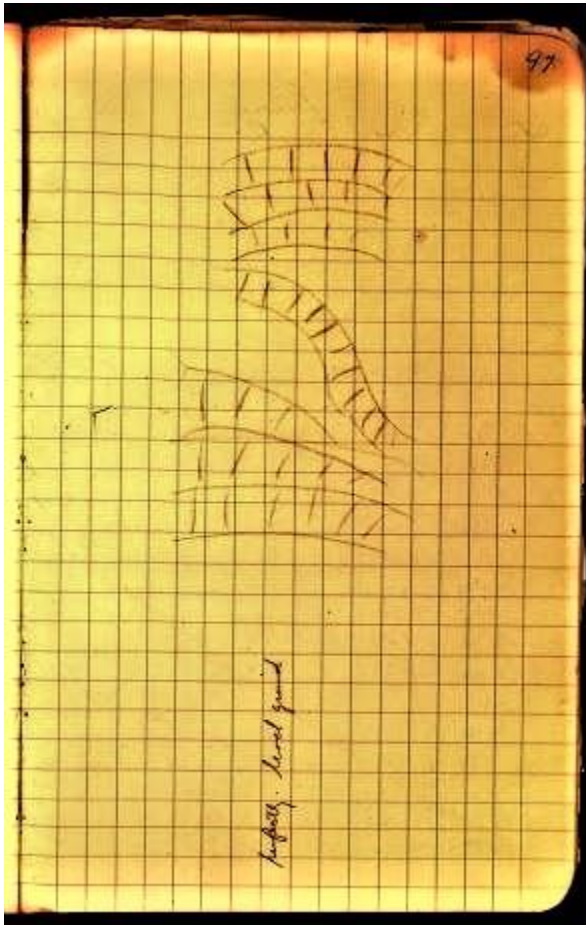
[P. 97 Topography for Stations 1035 through 1059 in the preceding Table, with this page numbered 95 by Tweedy; here Tweedy sketched an inlet to Burnt Lake, with a notation from an older Snell Survey that "Devil's Hole" was located here]



[P.98- Table for Stations 1060 to 1084 along the T&C Line from the NW Corner, with one Temp reading taken on the 57,000-ft point, no barometer reading, and a spruce post marking that Station, 1072]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
1084	57600				
1083					
1082	57500				
1081					
1080	57400				
1079					
1078	57300				
1077					
1076	57200				
1075					
1074	57100				
1073					
1072	57000	spruce tree 10 ft W of line		11:30 AM 71.5°	
1071					
1070	56900				
1069					
1068	56800				
1067					
1066	56700				
1065					
1064	56600				
1063					
1062	56500				
1061					
1060	56400				

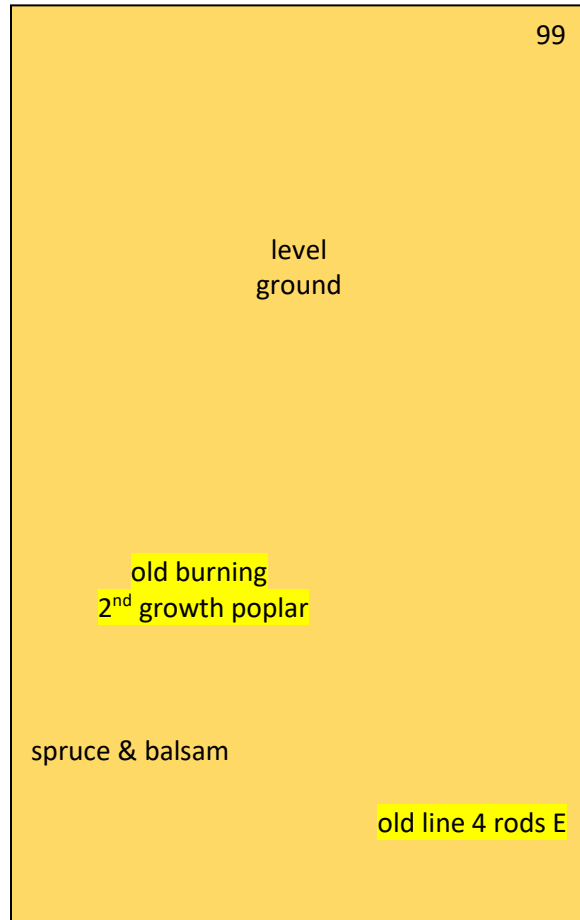
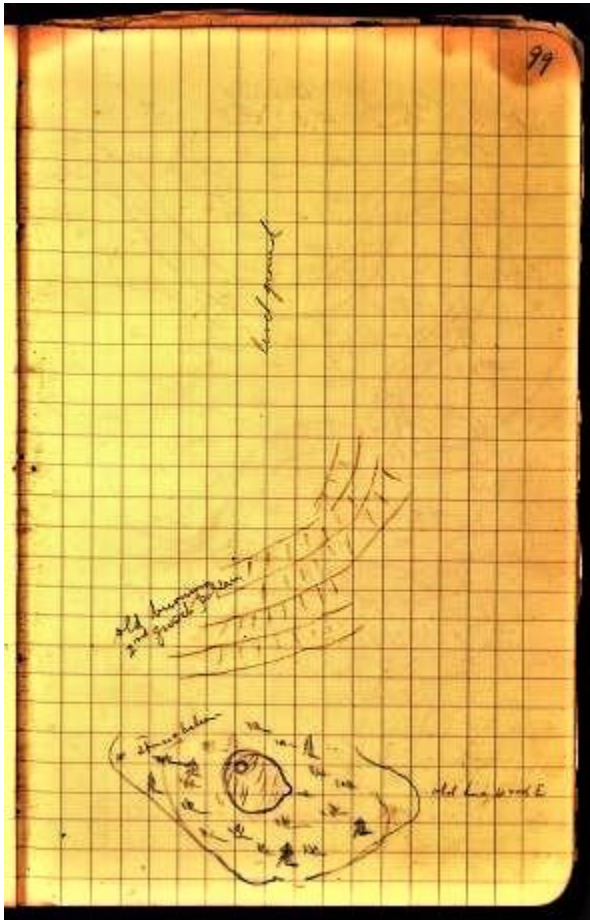
[P. 99 Topography for Stations 1060 through 1084 in the preceding Table, with this page numbered 97 by Tweedy; here Tweedy simply noted that this topography was "perfectly level ground"]



[P. 100- Table for Stations 1085 to 1109 along the T&C Line from the NW Corner, with one temp reading at the 58,000 foot point, where a tamarack stake was placed, and the 11 Mile-mark reached at Station 1093]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
1109					
1108	58800				
1107					
1106	58700				
1105					
1104	58600				
1103					
1102	58500				
1101					
1100	58400				
1099					
1098	58300				
1097					
1096	58200				
1095					
1094	58100				
1093	-30	11 Miles			
1092	58000	tamarack stake 3 in diam		12:30 PM T = 70°	
1091					
1090	57900				
1089					
1088	57800	S 29 E	old line 4 rods E		
1087 +22.8	57722.8		N 28 W		
1086	57700				
1085					

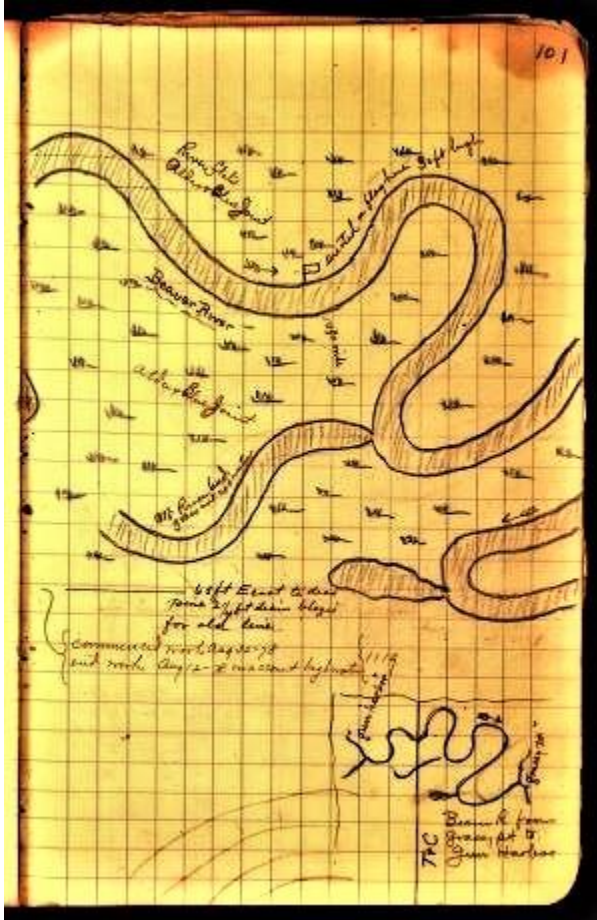
[P. 101- Topography for Stations 1085 through 1109 in the preceding Table, with this page numbered 99 by Tweedy; here Tweedy noted the old line nearby, with old burning and second growth poplar]



[P. 102- Table for Stations 1110 to 1134 along the T&C Line from the NW Corner, with one temp & barometer reading with a flag pole set on a summit near the Beaver River]


Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
1134	60100				
1133					
1132	60000				
1131					
1130	59900				
1129	59850				
1128	59800				
1127					
1126	59700				
1125 +22	59672 59650				
1124 +22	59622 59600				
1123					
1122	59500				
1121					
1120 +20	59420 59400	S 30° E			
1119 +9.8	59359.8	centre flag pole; built signal here 50 ft high red flag at summit	N 32° W		
1118	59300				
1117					
1116	59200				
1115					
1114	59100				
1113					
1112	59000	spruce stake 3 in diam		1 PM T = 75°	
1111					
1110	58900				

[P. 103- Topography for Stations 1110 through 1134 in the preceding Table, with this page numbered 101 by Tweedy; Tweedy reached Beaver River where he set up a 30 foot flag and sketched the T&C Line through the River, noting commencement of the work on Aug 30 & completion Aug 12- he probably meant July 30 to Aug 12, 14 days]



101

River flats  
Alder & Blue Joint

 erected a flag here 30 ft high

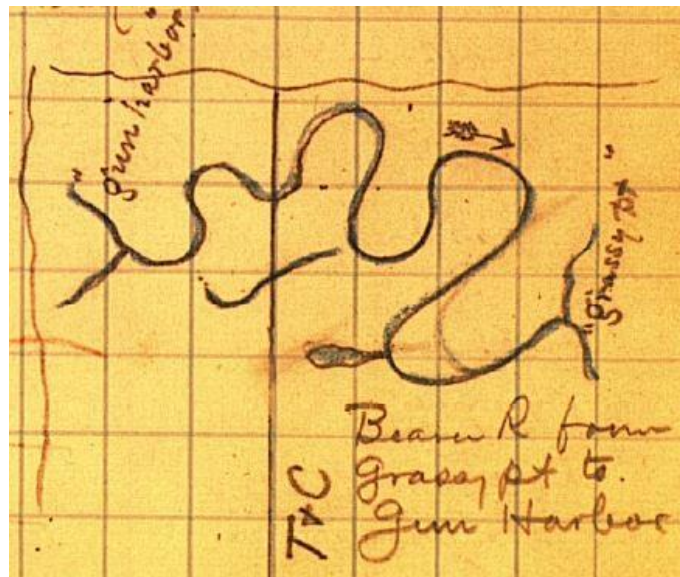
Beaver River 50 ft wide

Alder & Blue Joint

Old River bed  
grass and 2 ft water  
63 ft East to dead  
pine 1 1/4 ft diam blazed  
for old line

commenced work Aug 30 1878  
end work Aug 12-78 on account high water  
(1119)

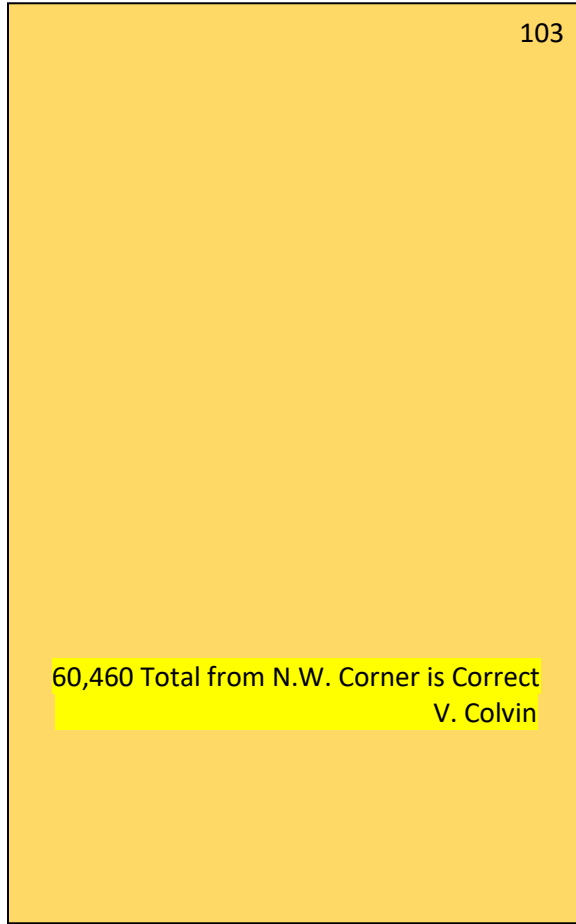
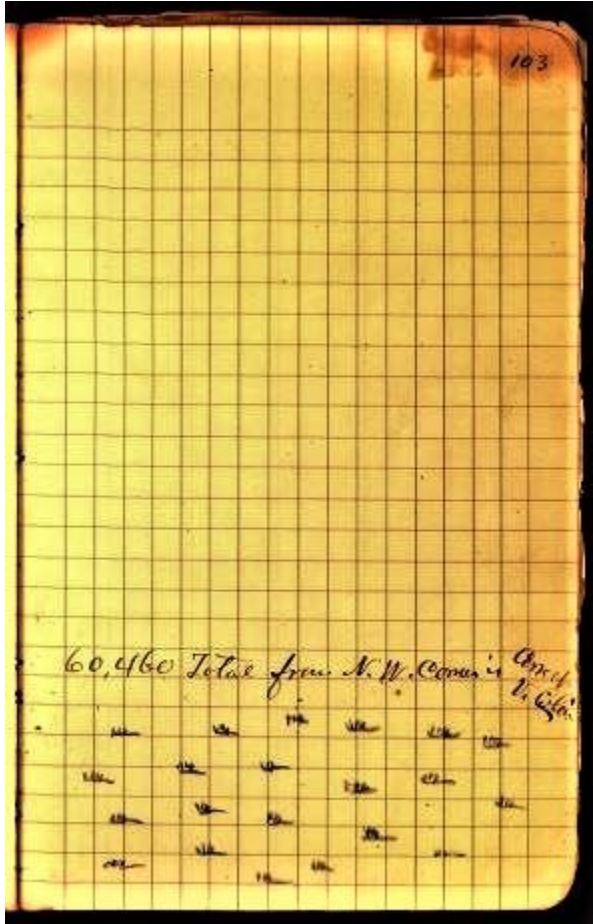
[See Enlargement  
of This Map Below]







[P. 105- Topography for Stations 1135 through 1141 in the preceding Table, with this page numbered 103 by Tweedy; Tweedy here marked marshland which probably represents Beaver River flats, with this important statement signed by Verplanck Colvin, actually written by him:  
"60,460 Total from N.W. Corner is Correct"]



[Pp. 106-107 are blank]

[P. 108- Table for Stations 0 to 24 along the T&C Line from the NW Corner, with the total of 60,460 feet covered to where the flag was raised at Beaver River flats, which on P. 104 was at Station 1141 + 10 feet (and here seems to be Station 0), this is a bit unclear unless due to high water, Tweedy finished his 1878 season by starting over, Stations 1-24, on the South side of Beaver River, in anticipation of the next season, following the T&C Line South to Eighth Lake; for Stations 1-24 add 1200 feet to his total for Season 1878]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
24	61660				
23					
22	61560				
21					
20	61460				
19					
18					
17					
16					
15					
14					
13					
12					
11					
10	60960				
9					
8					
7					
6					
5					
4					
3					
2					
1					
0	60460	S 30° E	This point is Station 1114 + 10 ft several pages back (see page 102)		

[P. 109- Topography for Stations 1135 through 1141 in the preceding Table, with this page numbered 103 by Tweedy; Tweedy here marked marshland which probably represents Beaver River flats, with this important statement signed by Verplanck Colvin, actually written by him:  
"60,460 Total from N.W. Corner is Correct"]



109

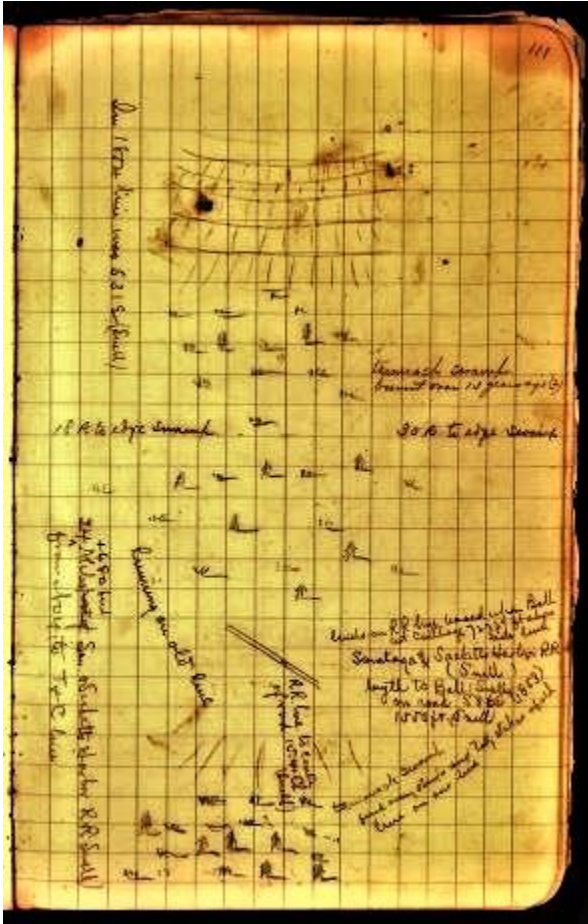
low level ground  
some hardwood  
slight rise

Begin here South side Beaver River swamp  
on account of high water Aug 13-78, T = 78°

[P. 110- Table for Stations 25 to 49 along the T&C Line from the NW Corner, adding to the total feet beyond what was recorded for the red flag, as Tweedy apparently devoted an additional 2 or 3 days running this Line below or South of the Beaver River, reaching the 62,910-foot point at Station 49]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
49	62910				
48	62860				
47					
46	62760				
45	62710				
44	62660				
43					
42	62560				
41					
40	62460				
39					
38					
37					
36	62260				
35					
34	62160				
33					
32 +34.2	62094.2 62060				
31					
30	61960				
29					
28	61860				
27					
26	61760				
25					

[P. 110- Topography for Stations 25 through 49 in the preceding Table, with this page numbered 111 by Tweedy; Tweedy here offers many notes with historical references to Snell's 1853 & 4 Survey work for the Saratoga & Sacketts Harbor Railroad which funded him; the topography here has the RR crossing a tamarack swamp]



111

In 1854 line was S 31° E (Snell)

tamarack swamp burnt over 15 years ago (?)

18 rods to edge swamp                      30 rods to edge swamp

Running on old line + 680 feet                      Levels on RR line based upon B.M. at Carthage 14 Miles Sar & Sacketts Harbor RR (Snell) 727.27 ft above tide level

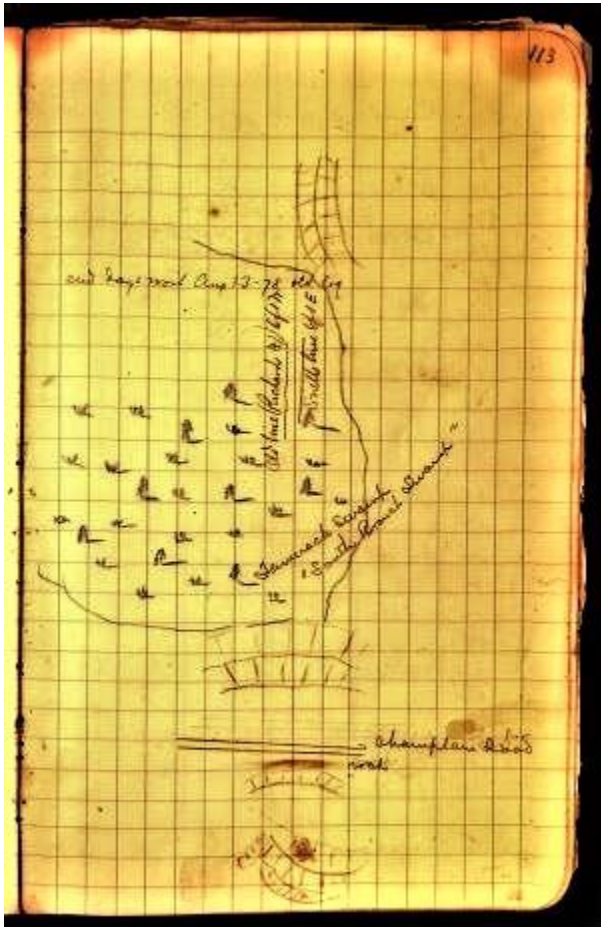
from No. 4 to T&C line                      Saratoga & Sacketts Harbor RR (Snell) length to B.M. (Snells) on road S 86° E 1550 ft (Snell, 1853)

R.R. Lie to centre of road 15.41 Ch?                      tamarack swamp find many stumps & stakes of old line on our line

[P. 112- Table for Stations 50 to 74 along the T&C Line from the NW Corner, adding to the total feet beyond what was recorded for the red flag, as Tweedy apparently devoted an additional 2 or 3 days running this Line below or South of the Beaver River, reaching the 64,160-foot point at Station 74, reaching the 12-Mile mark and setting a hub and cutting an arrow in bedrock on the Carthage Road]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
74	64160				
73		S 25 E			
72 +37	64097 64060		N 26 W		
71					
70	63960				
69					
68	63860				
67					
66	63760				
65					
64	63660				
63					
62	63560				
61					
60	63460				
59	63410				
58	63360	(12 Miles)			
57	63310				
56	63260	S 28° E			
55					
54	24.95  814  63160	hub set in centre of road = arrow cut in large bedrock			
53	63110		N 28 W		
52					
51	63010	From this point notch in Ruport Mt where line crosses bears N 28 W			
50					

[P. 112- Topography for Stations 50 through 74 in the preceding Table, with this page numbered 113 by Tweedy; Tweedy here marked the end to his Aug 13 day's work as the crew reached the 12-mile mark, passing a swamp he called "South Branch Swamp" and reaching the Champlain Road, which is probably why he kept working beyond the Beaver River; at this point, he noticed two marks for the old Line, one 6 feet West of his line, probably Richards 1815 line, and Snell's line 6 feet E]



113

end days work Aug 13-78 old lrg?

Old line (Richards ?) 6 ft W  
Snells line 6 ft E

Tamarack Swamp  
"South Branch Swamp"

Champlain Road

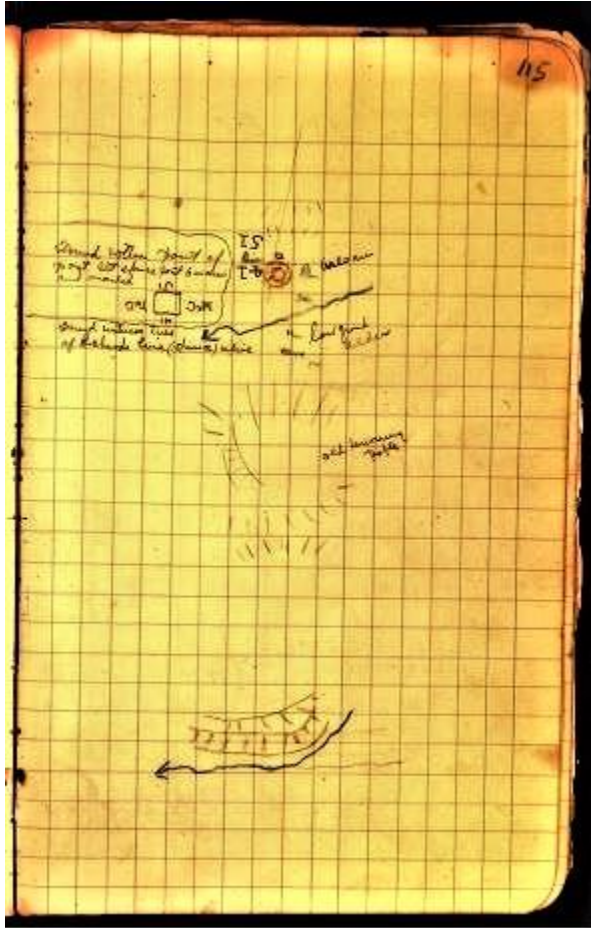
rock



[P. 114- Table for Stations 75 to 99 along the T&C Line from the NW Corner, adding to the total feet beyond what was recorded for the red flag, as Tweedy apparently devoted an additional 2 or 3 days running this Line below or South of the Beaver River, reaching the 65,360-foot point at Station 99, where he found the Corner to T&C Township 42, Lots 41 and 51 most likely marked in 1815 under Richard's Survey]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
99					
98	65360				
97					
96 +17.4	65277.4 65260	Corner of lots 41 & 51, Townships 42, T&C 17.6 ft E of old Survey line.	This is probably Richard's line		
95					
94	65160				
93					
92	65060				
91					
90	64960				
89					
88	64860				
87					
86	64760				
85					
84	64660				
83					
82	64560				
81					
80	64460				
79 +7	64417				
78	64360				
77					
76	64260				
75					

[P. 115- Topography for Stations 75 through 99 in the preceding Table, with this page numbered 115 by Tweedy; Tweedy here marked another Corner, this one as stated above, apparently two Lots between the Totten & Crossfield Line and I think the MaC or one of the "Great Macomb Tracts"]



115

Found rotten point of post, set spruce post 6 in diam and marked [see insert below]

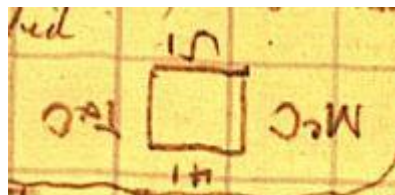
51  
-----  
41

balsam  
low ground  
alders

Found witness trees of Richards line (spruce) alive

old burning  
Pofila?

[Inserts for (L) Tweedy Mark for Corner of Lots 41 & 51 between the Macomb's Tract & T&C Line and (R) the Corner of Lots 51 and 41]



[P. 116- Table for Stations 100 to 124 along the T&C Line from the NW Corner, adding to the total feet beyond what was recorded for the red flag, as Tweedy apparently devoted an additional 2 or 3 days running this Line below or South of the Beaver River, reaching the 66,660-foot point at Station 124, where he found a large black cherry blazed ca 60 years before, most likely in 1815 under Richard's Survey]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
124	66660				
123					
122	66560				
121					
120	66460				
119					
118	66360				
117					
116	66260				
115					
114	66160				
113					
112	66060				
111					
110	65960				
109					
108	65860	S 29 E			
107 +30.4	65840.4		N 28 W		
106	65760				
105					
104	65660				
103		black cherry 5 ft cir 25 E of line	This tree has blazes of a line about 60 yrs old, probably Richards 1815		
102	65560				
101					
100	65460				

[P. 117- Topography for Stations 75 through 99 in the preceding Table, with this page numbered 117 by Tweedy; Tweedy here marked another Corner, this one as stated above, apparently two Lots between the Totten & Crossfield Line and I think the MaC or one of the "Great Macomb Tracts"]



[P. 118- Table for Stations 125 to 131 along the T&C Line from the NW Corner, adding to the total feet beyond what was recorded for the red flag, as Tweedy apparently devoted an additional 2 or 3 days running this Line below or South of the Beaver River, reaching the 67023.4-foot point at Station 131, where Tweedy states he ended his work for 1878, Southwest Division of the Adirondack Survey]

Sta.	Reduced Dis	F.S. Bearing	B.S. Bearing	Ther.	Bar.
131 +13.4	67023.4	end of work 1878,	SW Division Adirondack Survey		
130	66960				
129					
128	66860				
127					
126	66760				
125					

[P. 119- Topography for Stations 125 through 131 in the preceding Table, with this page numbered 119 by Tweedy; Tweedy here marked the end of his 1878 work on Aug 16, with the setting of a post marked "TC Mac"]



119

End of work Aug 16, 1878  
Set up a post supported by  
firm post and  
marked T C Mac

low ground  
balsam  
end burning

old burning  
Poplar

range of hills crossing line  
about 3000 ft distant

[P. 121- Table for Stations 1 to 13, odd numbers "rear," even numbers "ad" (for advance), with Fore and Back bearings and distance recordings. Not sure what this is about]

Sta.	F.S. Bearing	B.S. Bearing	Dis	
1 Rear		N 64.75 E	168.1	
2 Ad	S 64.25 W		323.5	
3 Rear		N 61.25 E	151.9	
4 Ad	S 69 W		151.8	
5 Rear		N 56 E	365.6	
6 Ad	S 66 W		133.5	
7 Rear		N 58.5 E	167.2	
8 Ad	S 43.5 W		193.1	
9 Rear		N 51° E	117.6	
10 Ad	S 39.5 W		97.2	
11 Rear				
12 Ad				
13 Rear				
(a) Rear	N 65 E		141.4	
(b) Ad	S 65 W		264.6	

[P. 122- Topography for Stations 1-13 (I think) with important notes here by Tweedy about the Tamarack hub in the center of the Carthage-Champlain Road opposite the Benchmark where the T&C Line crossed that road; this was also near the Saratoga & Sacketts Harbor RR, the survey for which S.S. Snell did]



122

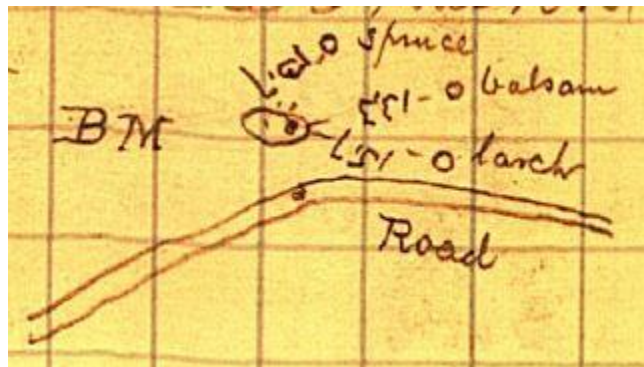
Tamarack hub 4 in diam set in center Champlain Road opp B.M.  
 Saratoga & Sacketts Har RR (Snells) distant 15.5 feet, blazed witness trees  
     spruce  
     BM balsam  
     larch

Road

hub set in centre of road where T&C line crossed

hub in centre of road opposite B.M. of Sar. & Sacketts Har RR  
     Di Do 39 (15 M)  
     Ad Sur 1876

[Detail of Tamarack Hub set in Carthage-Champlain Road]





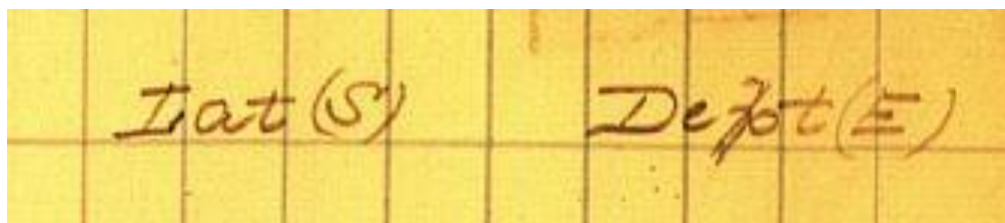
[P. 123-124- "Synopsis of Courses run in surveying Totten & Crossfield Line by S.W. Division, Adirondack Survey;" as stated in the Introduction, a Course appears to be the number of Stations that can be surveyed in one day, with distance covered and the Backward and Fore bearings, corrected in the last two columns; Synopsis completed on next page]

No. of Courses	Sta.	To Sta.	Dis (feet)	F.S. Bearing	B.S. Bearing	F.S. Corrected	B.S. Corrected
1	Big Corner 0	7	350	S 28° E	N 28° W	28	28
2	7	20	685.15	26	28	26	26
3	20	29	396.65	28	28.5	26	26
4	29	36	360	30	28	27.5	27.5
5	36	48	600	28	27.5	27.5	27.5
6	48	64 +31.7	831.7	28	28	28	28
7	64 +31.7	2 +25	301.5	23.75	25.75	23.75	23.75
8	2 +25	17 +42.8	767.8	28	28	28	28
9	17 +42.8	40	1107.2	26	28	26	26
10	40	67 +16.4	1366.4	28	26	26	26
11	67 +16.4	145 +27	3910.6	27	27	27	27
2712	145 +27	157	573	28	28	28	28
13	157	160	150	22.5	22.5	22.5	22.5
14	160	175 +37	787	28	29	28	28
15	175 +37	178 +34.4	145.4	25	25	24	24
16	178 +34.4	242 +35.5	3203.1	28	27	27	27
17	242 +35.5	300 +30.7	2895.2	27	27	27	27
18	300 +30.7	312 +6.4	575.7	25	25	25	25
19	312 +6.4	389	3843.6	27.5	27.5	27.5	27.5
20	389	539	7500	27	27.5	27	27
21	539	593	2700	28.5	28	28	28
22	593	603 +14.2	514.2	27.5	27.5	27.5	27.5
23	603 +14.2	604 +9	44.8	S 0° E	N 0° W	0	0
			33609 feet				

[Pp. 125-126- Synopsis Continued, with the grand total distance covered highlighted as 67,023.4 feet or 12.69 miles, which agrees with Tweedy's total listed on P. 118 at Station 131 +13.4 ft with his crew's end of work for 1878; from this Synopsis the crew covered over 2000 feet on Courses 11, 16, 17, 19, 25, 27, 29, and 32, with the most distance covered in Course 29, 11141.3 between Stations 864 and 1087, or on or about August 9 to 10 or 11, so a one or two day work on surveying; two additional columns were listed in Tweedy's Table, Lat(S) and Dext(E) as shown in below, with no figures filled in, not sure what these were]

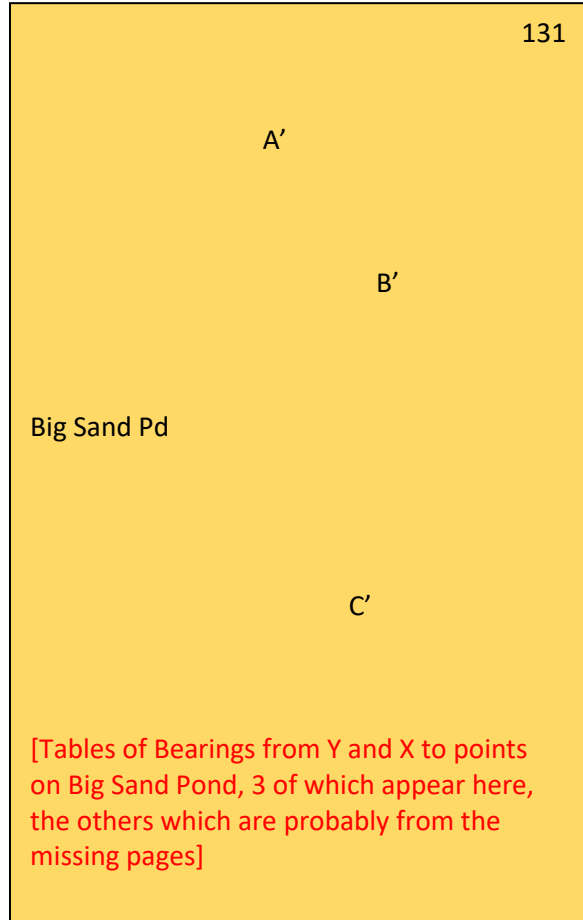
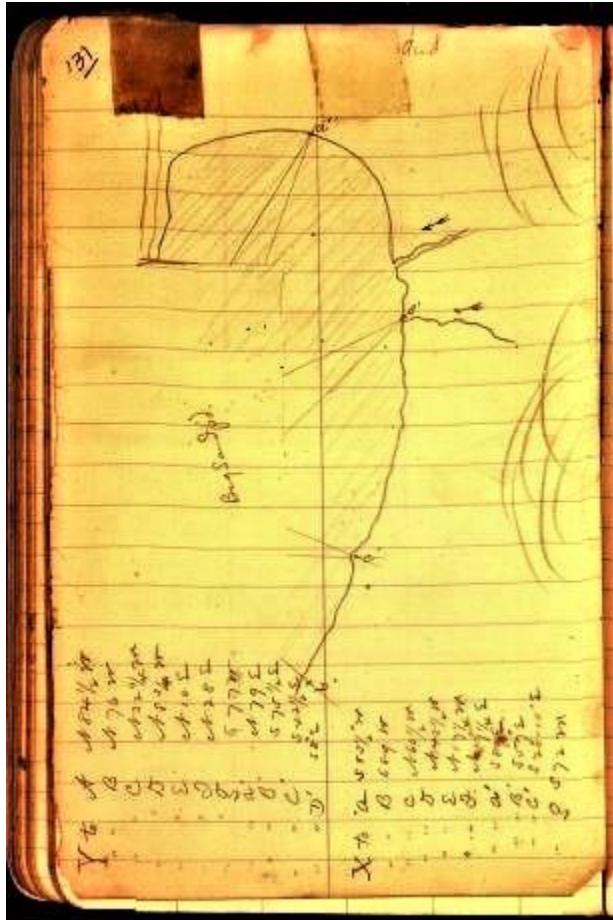
No. of Courses	Sta.	To Sta.	Dis (feet)	F.S. Bearing	B.S. Bearing	F.S. Corrected	B.S. Corrected
24	604 +9	619 +8.5	749.5	S 26.5 E	N 26.5 W	26.5	26.5
25	619 +8.5	660 +26.5	2068	28	28	28	28
26	660 +26.5	662 +47.5	121	8	8	8°	8°
27	662 +47.5	787 +10.5	6213	27.5	27.5	27.5	27.5
28	787 +10.5	864 +31.5	3871	29	28	29	29
29	864 +31.5	1087 +22.8	11141.3	27	28	28	28
30	1087 +22.8	1119 +9.8	1587	29	32	29	29
31	1119 +9.8	1141 +10	1100.2	30	31	27	27
32	1141 +10	54 +24.95	2714.95	30	28	26	26
33	54 +24.95	72 +37	922.05	28	26	26	26
34	72 +37	107 +30.4	1743.4	25	28	25	25
35	107 +30.4	131 +13.4	1183	29		26	26
			67023.4				

[Two Columns Not Filled in]



[Pp. 127 to 130 are missing]

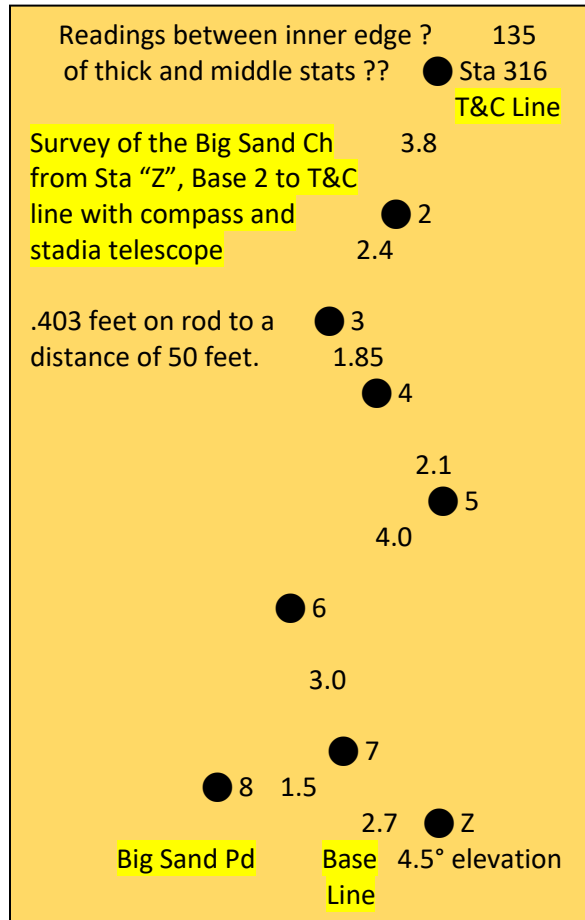
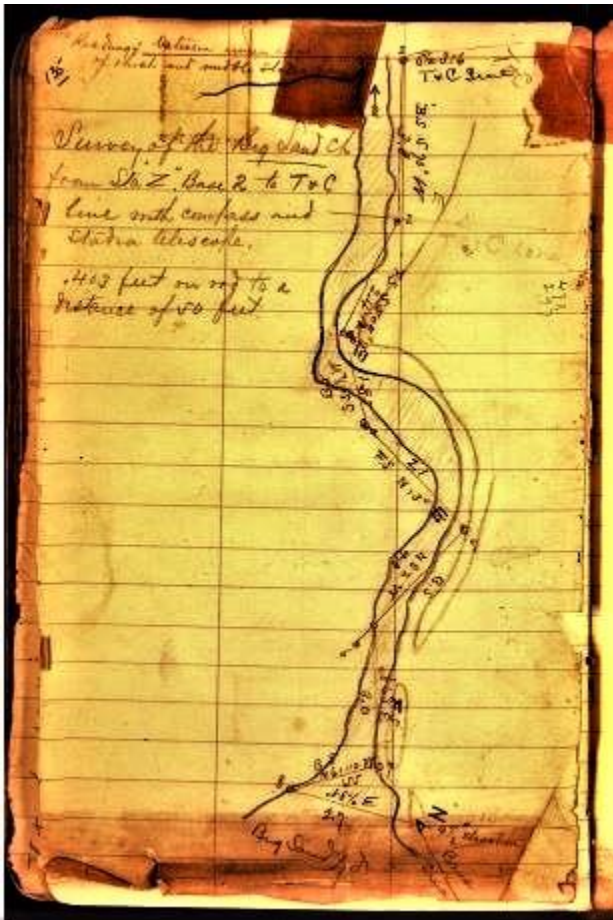
[P. 131- The remainder of this Journal has several sketches of ponds or lakes near Wolf Pond, with 3 pages (127 to 130) missing. The Table at the bottom of this sketch of Big Sand Pond shows Bearings from Points X and Y, which do not appear here, to points A through G and A' through D' only three of which appear on this sketch. Apparently, this Table pertains to more than this page; See Page 139- this Table with its alphabetic points correspond to Tweedy's Wolf Lake sketch]



[P. 132 is blank]

[Pp. 133-134 are missing]

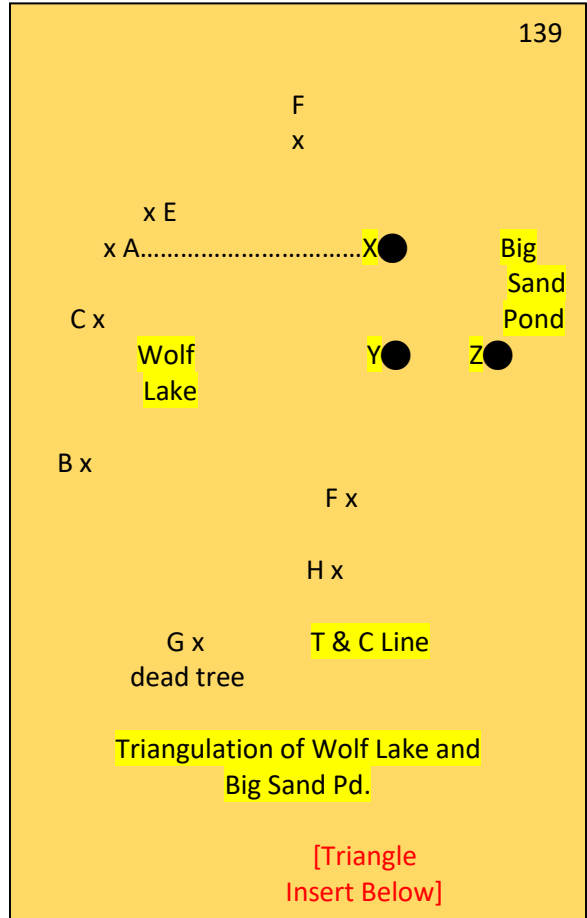
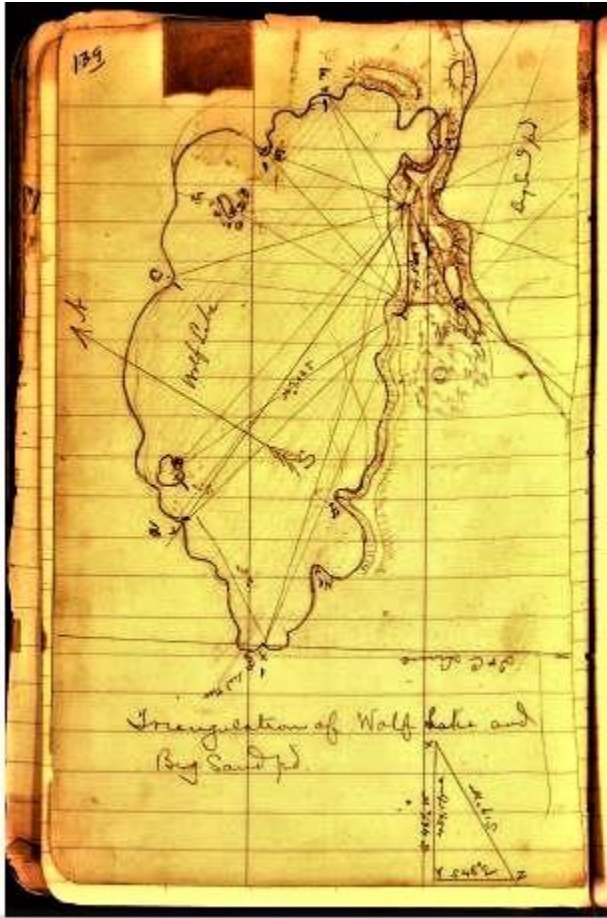
[P. 135- This sketch of Tweedy shows Big Sand Channel which flows North-South into Big Sand Pond, with the Totten & Crossfield Line crossing at Station 316, and with Stations 2 through 8 marked off in zigzag fashion along that river, the mileage (or rods?) noted in between and the Bearing of each line, from that Station 316 starting point to Station Z where the river empties into the Pond. At the Pond Tweedy sketched a Base Line for a survey of the Pond on the previous page (and probably the missing pages too)]



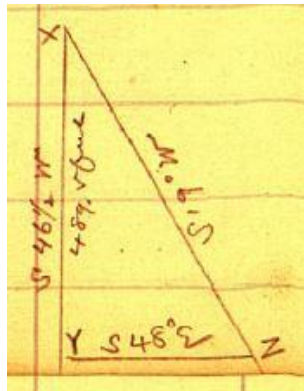
[P. 136 blank]

[Pp. 137-138 are missing]

[P. 139- This detailed sketch of Tweedy shows Wolf Lake with Big Sand Pond to the SE, with the Stations or points around its shoreline and on two islands measured from key points between the two bodies of water- X, Y, and Z, and with the Bearings all listed on his Table at the foot of Page 131. The Triangle at the bottom corresponds to his Base Line on P. 135. as the basis for his Triangulation of these two bodies of water. Their importance here had to do with the T&C Line which crossed both]

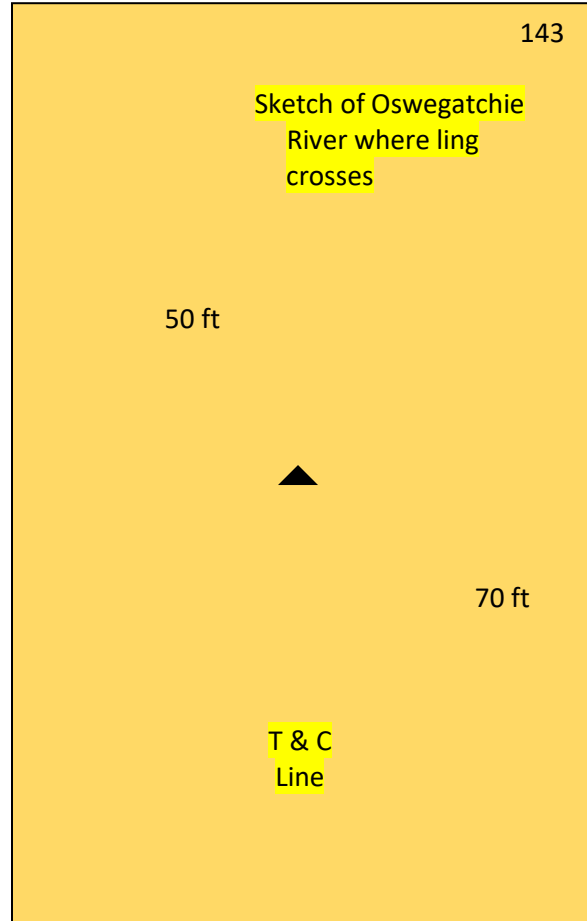


[Survey Triangle for Wolf Lake & Big Sand Pond]



[P. 140 blank, pp. 141-2 missing]

[P. 143, Tweedy's last sketch, offers a very detailed one of the T&C Line crossing the Oswegatchie River (see pp. 11, 13, 15) with numerous islands or large rocks in the middle of this stream which is 50 ft wide on its N side, 70 ft on the S side, and with a central Bold or Benchmark on a middle stone; the rest of the shore points or stones which Tweedy highlights give a Bearing from that central "triangle" and a distance. The T&C Line cuts down right through that central BM in the River]



[P. 144 blank]

[Pp. 145-163 are missing]

[Inside Back Cover- Here is a sample of a Surveyor's scratch pad, performing lots of operations in arithmetic, on the inside back cover]



[...and here is the Back Cover]

