

159.



INDEX Pg 26

Notes

Run West

Town Line E-W bet 1-36 136-137-23 Pg 157  
E-W - " 2-36

Rg Line Run North

13-18-

7-12

6-1

137-27-28 Pg 160-161 Book A

Town Line Run West

5-32

6-31

137-138-27 Pg 163-164 A

137-28- Bet 2-11- Pg 12-

Rg Line North Bet

31-36- 138-27-28- Pg 198-A

TINC - 16-30-70-100

Board - 17-31-71-101

Map - 4-5-6-7-20-21-22-23-28-29  
33-39-40-41-42-43-46-47-

Addresses 14-

Bet 2-11- Buti value Pg 34-38-39-40-41-45  
44-45- 27 Figures

My Notes

Southern Range Line

Plot Pg 4-5-6-

Soon Range line Pg 13-15-19-20-21-22-23-33-35-

159

may 88



2.  
January

Jan 17-1922 Tuesday

Attd day in office in Beaumont

Copy records and US Valis

for survey of

Govt Lot 1- Sec 6-137-27 = 56.68 Hk

" 2 " " " " 22.11

" 3 " " " " 54.17 "

" 4 " " " " 42.06 "

SW NE " " " " 40.00

215.02

also

Govt Lot 1 Sec 1-137-28 = 45.75

" 2 " " " " 55.57

" 3 " " " " 47.93

149.25

364.27 acc

To flat into townsite for  
B. A. Michner of Pine River Minn  
joint owner with -

@ 15. a day and expenses

Lv Bed 12.15 at night train to PR.  
from 8.19 stay at Spencer Hotel

John W. Cress





154.15

87  
84.3

83



$26.37 \times 10.3 = 26.3$   
 $10.3 \times 10.3 = 10.3$

157

103054.50

1548.30 on bank carry 10' 0"

2340.2 on gold 20 ft

449 carry 1/4

200.3

Let 6 = 135.0

7 " " " " " "

151318

35135

3583.5

1448.3

131218

1237.5

850.80

2437

2629.70

2631.8

15251.55

2625.77

20121.8

5138.30

80



Stamp - Pen No F.L.

ser. 15 -

in  
cups

longitudinal

Forman for

Jordan's

Almond  
Pachyderm  
the back

Henry Bangs

11/10/10

Johannes  
Pellegrini



2165 H walt run

2188 wof

Found in  
159 Oct 9

33

66

198

198

2178

Reepag 76

Book 3 x for

~~34-333~~

4-5-32-33

137-28

JP 8 N about 40 E 38.5

" 9 N " 70 W 38.50

" 17 S " 50 W 109.80

" 8 S " 40 E 61.90

50.40

14" 35

28.7

2677.5

2706.2

2626

2643.1

2851.7

2358.2

2626

2727

30

2592.10







Jan 18-1922



See p 57  
Book No. 6.



Jan 18-1922





Jan 18-1922  
US Notes in part Range Line  
Twp Cor In Trout Lake 137-138-27-28 run  
North  
Bet 31-36 Var 10°E

40.00 = 1/4 In Trout Lake  
47.57 = MC N. side YP 16 N 82 E 82 =  
Dead Pine 10 N 67 W 77 =  
47.57 Lks = 3139.62 Feet

8000 = 5280 Feet Cor To  
25-30-31-36-138-27-28  
Aspen 10 N 15 E 21 = 13.86  
WP 9 S 77 E 46 = 30.36  
" 8 S 57 1/2 W 46 = 30.36  
YP 9 N 50 W 31 = 20.46

Pg 198-US  
Book A

RANGE LINE  
Beg @ 13-18-19-24 - 137-27-28 run  
JP 7 N 74 E 38 Lks  
YP 16 S 78 E 74  
JP 12 S 28 W 77  
JP 6 N 82 W 27

North Bet 13-18-Var 9°E  
40.00 Set 1/4 - JP 4 S 22 E 12 =  
JP 3 N 77 W 21 =  
8000 = cor

7-12-13-18-137-27-28  
YP 10 N 48 E 24 = 15.84  
" 13 S 8 E 33 21.78  
" 10 S 57 W 19 12.54  
" 12 N 28 W 13 8.58

NORTH Bet 7-12-Var 9°E  
2567 = 1694.22  
Set MC. So Side White Fish Lake



RANGE Line Jan 18-1922  
ash 7S 72E 7 = 4.62  
YP 14S 43W 40 = 26.40

40.00 =  $\frac{1}{4}$  - 7-12 on line

80.00 Cor 1-6-7-12 on line  
North Bet 1-6-V 9° E  
3548 = 2341.68. MC N. Side Whitefish L  
Red Cedar 8N 21E 17 = 14.22  
" " 10N 42W 37 = 24.42

40.00 =  $\frac{1}{4}$  Bet 1-6-137-27-28  
WP 15S 7E 49 = 32.34  
Maple 7N 69W 20 = 13.20

5460 = 3603.60 ft  
MC. to side Trout  
W. Cedar 5S 83E 7 = 4.62  
" Birch 6S 58W 4 = 2.64

8000 Twp Cor in Trout Lake

XXXXXXX

Town Line  
From Twp Cor in Trout Run  
West Bet 1-36-V 10° 12' E  
40.00 =  $\frac{1}{4}$  on line  
80.00 1-2-35-36 on line

West bet 2-35-V or 10° 12' E  
1773 = 1170.18 MC W. side Trout L  
YP 18N 22E 310 = 204.60  
WB. 8S 76W 215 = 141.90

XXXXXX

Town Line 137-138-27  
3-4-33-34  
YP 13N 10W 56 =  
" 16N 72E 49 =  
" 14S 30E 38 =  
WP 22S 32½W 54 =

Town Line



Town Line Jan 19 1922

West Bet 4-33-137-138-27  $\sqrt{8'59''}$  E

40.00 Set  $\frac{1}{4}$  YP 15N43W35 = 23.10

" 22S55E 65 = 42.90

6200 Tam Swf NW-SE

7000 LV " SW-NE

7500 Tam Swf SE-NW

8000 4-5-32-33.

Tam 5N48E 119 = 78.54

W Birch 6N84 $\frac{1}{2}$ W 161 = 106.26

Tam 4S60E 105 = 69.30 ft

Asp 8S19W 126 = 83.16

West Bet 5-32-Var  $\sqrt{8'59''}$  E

8.00 LV Tam Swf NWSE

2197 = 1450.02 MC E Side Ox Lake

YP 6N87E 69 = 45.54

" 24S72E 103 = 67.98

2849 = 1880-34 W MC. W of Lake

YP 14N38W 40 = 26.40

" 24S9E 92 = 60.72

4000 Set  $\frac{1}{4}$  Bet 5-32

YP 14N50W 121 = 79.86

? WP 24S9E 92 = 60.72

8000 Con 5-6-31-32-137-138-27

W Birch 4N43E 24 = 15.84

Asp 12S58E 9 = 5.94

" 12S38W 37 = 24.42

" 12N82W 12 = 7.92

West Bet 6-31  $\sqrt{8'59''}$  E

1210 = 798.60 ft MC E side Trout

Asp 4S29W 24 = 15.84

Cedar 5N82E 63 = 41.58

7775 = 5131.50

pt for Twp Corn Trout Lake

Note - 1320 = 148.50 short = 1171.50 US



Jan 19-  
1922

Subdivision US Notes

137-27

8-9-16-17-137-27 Cor in Cross Lake

21 Lxs = 13.86 W. and 160 Lxs = 105.60 FT N

of lake shore

North bet 8-9 & 9 1/4° E run in

2121 = 1399.86 FT N to Cross Lake and MC,

YP9S38E 52 = 34.32

No other trees

4000 net 1/4 Bet 8-9-137-27

YP15S 87E 68 =

" 15S 14W 51 =

8000 Cor 4-5-8-9-137-27

YP14 N 67E 139 = 91.74

" 24S 54E 284 = 187.44

" 18S 48W 132 = 87.12

" 10 N 37W 170 = 112.20

South Bet 4-5-137-27 19° E

1000 = 660.00 FT and MC Nail

WP15N 19E 51 =

YP18N 56W 36 =

4661 MC S. of lake

WB 65 1/2 E 78

WB 55 46W 53

8000 Cor 4-5-8-9-

XXXXXXXXXX

17-18-19-20-137-27

10015' YP12N 24 1/2 E 173 =

" 18N 76 1/2 W 48 =

" 18S 36 1/2 W 47 =

Asp 3S 28E 61 =

North Bet 17-18-137-27 010' 30'

3200 marsh E-W

4000 net 1/4 Bet 17-18



JP 5N 11W 76 =

Jan 19-1922

7S 65E 71 =

6133 = 4047.78 FT set MC. So

side arm of Rush Lake

NP 12S 49 1/2 W 18 =

NP 10N 41 1/2 E 28 =

7174 = 4734.84 ft set MC North

side arm of Rush Lake

Oak 4N 36W 39 =

YP 10N 56E 40 = 26.4

8000 Cor 7-8-17-18-137-27

Oak 3N 43 1/2 E 13 =

Elm 5N 36W 34 =

WP 10S 19 1/2 W 13 =

Elm 3S 46 = 26 =

North Bet 7-8-137-27 v 10° 15'

156 = 102.96 FT set MC.

So side Rush Lake

WP 10S 15W 170 =

Elm 3S 42E 182 =

844 = 557.04 MC N side Rush L.

Pin 9N 69 1/2 W 326 =

Oak 10N 53E 117 =

2039 = 1345.74 FT MC. S.

side of Lake

YP 12S 25W 35 =

9S 80E 23 =

4556 = 3006.96 FT MC.

N side Lake

YP 12N 34W 31 =

" 9S 80 1/2 E 108 =

8000 Cor 5-7-8-137-27

YP 12N 15E 98 = 64.68

" 9N 23 1/2 W 90 = 59.40

WP 10S 32W 31 = 20.46

" 7S 23E 96 = 63.36



USN alt 137-27 Jan 19-1922<sup>11</sup>

South bet 5-6-137-27 on 10°17' E  
2307 = 1522.62 FT M.C. N. side L.  
JP 7 N 9 1/2 E 87 =  
WP 12 N 18 W 74 =

3964. = 2616.24 FT Point for  
1/4 Bet 5-6-137-27  
in lake.

6764 = 4464.24 M.C. N. of Lake  
YP 15 S 45 E 44 =  
YP 12 S 6 1/2 W 145 =

7964 = 5256.24 Cor to  
Sec 5-6-7-8-137-27

West bet 5-8-137-27 on 10°16' E  
3963. set 1/4  
YP 14 N 80 E 21 =  
Pri Stub 15 S 1 E 75 =

7927 = 5231.82 FT in line set  
Cor 5-6-7-8-137-27

West Bet 6-7-137-27 on 10°15' E  
900 = mark NTR  
2100 LV mark NW-SE

2285 = 1508.10 set M.C. E side  
Whitefish Lake  
Asp 35 S 31 3/4 E 42 =  
YP 12 N 3 1/4 W 339 =



12

USNalis Jan 19-1922

2-3-10-11-137-28 V 10°30'E

YP16N 76 1/2 E 23 =

YP18N 45 3/4 W 22 =

YP12S 49E 9 =

YP10S 51 1/4 W 26 =

East Bat 2-11-137-28 on 10°30'E

4000 at 1/4 Bat 2-11

WP18N 29E 83 = 54.78 //

YP18S 50E 11 = 7.26

5889 = 3886.74 MC, W side  
Trout Lake

WP8N 44 1/2 W 28 = 18.48

" 8S 27 W 36 = 23.76

	83
	498
7.26	498
	<hr/> 5478



138-27-28

Range Line

Jan 19-1922 Thursday

Check and write US notes all PM

Best Milchner - Chas Webber -  
Harry Hill fix hand sled for  
fish house Curo writes notes  
Sam Schultze on for dinner  
P.M.

John W Curo takes transit and  
rides with Sam Schultze on for  
or Harold B. Stotts  
We pick up Harold Curo and  
Jesse P. Babcock on old RR grade  
where they have driven up from  
Crown Lake and drove Harold's  
Ford over a part of Trout Lake  
looking for me.

We leave the Ford and they go  
with me to Stotts

I call up Alina at Brainerd  
She says: Gerald is sick I tell her  
to call Harold Stotts if she needs  
me

Bob - Harold & I walk half a mile  
to to Co 25-30-31-36-138-27-28  
and we chain Babcock's old cut  
out line

South on Range Line

75. stake + 300 = 375 stake + 25  
= 400 - stake 700 - stake

John W Curo



Jan 19-1922 cont'd

It gets dark and we strike 20  
and E for camp Bob & I have new  
shoes - Harold gives me his.

At Camp after dark

All stay with Michener in his  
new cabin

Alma gets Telegram from Duluth  
that mother is dangerously ill  
She telephones Harold Stotts who  
gets Mr. ~~Row~~ and his team  
they bring message to me.

I give Stotts \$45<sup>00</sup> all the  
money I have - He says he will  
give it all to Row

Bob and I figure late till  
12-midnight

Address:

Ruchman  
Whiteley & Bockman Patent Attorneys  
527-528-First Natl Bldg  
N.Y.C.

John W. Cus



Range Line

15

Jan 20-1922 Friday.

I L. Babcock to take my place  
and go to Brainerd with Herald.

Mr Michener & I started 700 S cont'd

1000, -1300, 1600, 1900, 2200, 2500,

2800, 3100, 3400, 3700, 4000, 4003. South  
about 604 miles. 4300, 4600, 4900, 5200,

5500, 5800, 6100, 6400, 6404 about 604 miles

6700, 6944 SNear edge of Ice. 7000 stake

Foot of Hill. cut-line to top of hill set  
Hub and quit for night.

Jan P. Babcock.



# Time Sheet 1922

	January											SUN				
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
ESIS																
John W Curo	?	1	1	-	-	-	-	-	-	+	-	-	-	-	3	
Exp.	RR 1.19	Mile 1.85	-	-	-	-	-	ag 1.00	-	-	-	-	-	-	-	
I P Babcock	-	-	?	1	1/2	-	1	1	-	1	1	1	-	-	8	
BAMichner	-	-	-	1	-	-	-	-	-	-	-	-	-	-	11	
Harold J Curo	-	-	?	-	-	-	-	-	-	-	-	-	-	-	-	
Sam Baholty					1/2	-	1	1	-	1	1	1	-	-	1	

could on page 76 - 30 - 70 -



# Board Sheet With Michner BA

January 1922

	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
JW Curo	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
JP Babcock	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12 1/4
HJ Curo	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Michner	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Webster	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
H. Hill	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3 1/2
Sam Schalltz	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12

50 days



Sunday Jan. 22, 1922

Mr. Blow brings some things for  
Michner also gets word that his  
Wife is sick and so he gets Mr Blow  
to take him, Webber & Hill to Pine-  
River.

Leaves Scholtze & L. to run out-  
lines.

L. P. Babcock



19

Book 159

Range Line

@ 8:00 AM.

Mordan Jan 23 - 1922 40° Below 0°

Sam & I get breakfast and  
start for Work @ 8:30 Work all

A.M. Cutting line & chaining  
across point from Lake Marshud

7000. 7300 - 191.5 = 7108.5 1 Hub

7300 - 7300 + 216.15 = 7516.15

S Hub, 7600, 7600 + 232.7 =

7832.7 60 spike - 10 ft North of

N Banks of Whitefish Lake.

to dinner @ 12:30. Leave 1:50  
for Work.

From 7832.7 S outth plumb down steep  
bank about 40 ft. High to Whitefish  
Lake. 7900 Near Edge of Ice. 8200, 8500  
60 spike set for offset on account of  
building on south side Whitefish  
Lake.

D. P. Barabak



## Range Line

@ 7:30 P.M.

Monday Jan 23-1922.  $22^{\circ}$  Below  $0^{\circ}$   
 put in point about  $\frac{1}{4}$  mile South  
 on lake turn  $90^{\circ}$  Left or S  $90^{\circ}$  E run  
 300 ft. set 60 ft spike set point  
 about  $\frac{1}{4}$  mile East for turning angle  
 to run South. Work 5:30 P.M. quit.  
 for Night.





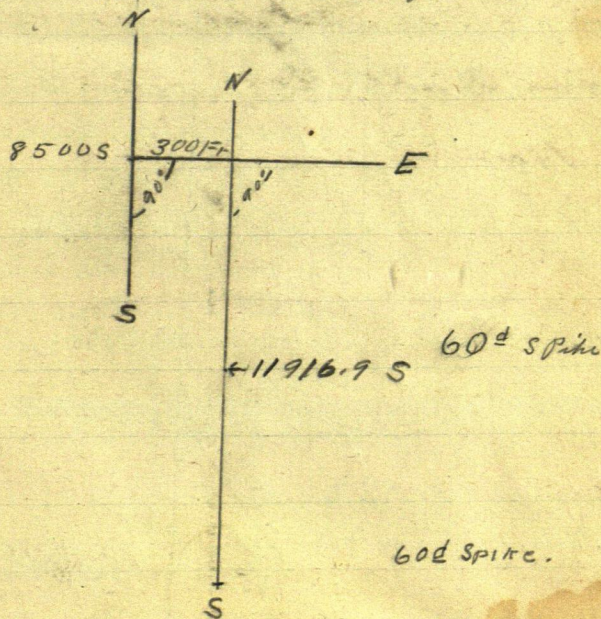
11916.9 S 60° Spike  
Range Line

@ 7:30 AM

Tuesday Jan 24, 1922 36° Below 0°

Sara Schultze & I start at 8500 S

300 ft E turn 90° to Right and  
continue South 8800, 9000, 9400, 9700,  
10000, 10300, 10600, 10900, 11200  
11500, 11800 11916.9 = 60° Spike.



11800 S continue 12100, 12400, 12700 13000

13300 13600, 13900, Spike South  
Shore White fish Lake. Start and cut  
brush and Run Line do not chain  
cut about 1/2 mile of line break ahead  
quit for night.

J. B. Patrick



Range Line 16-137-27-28

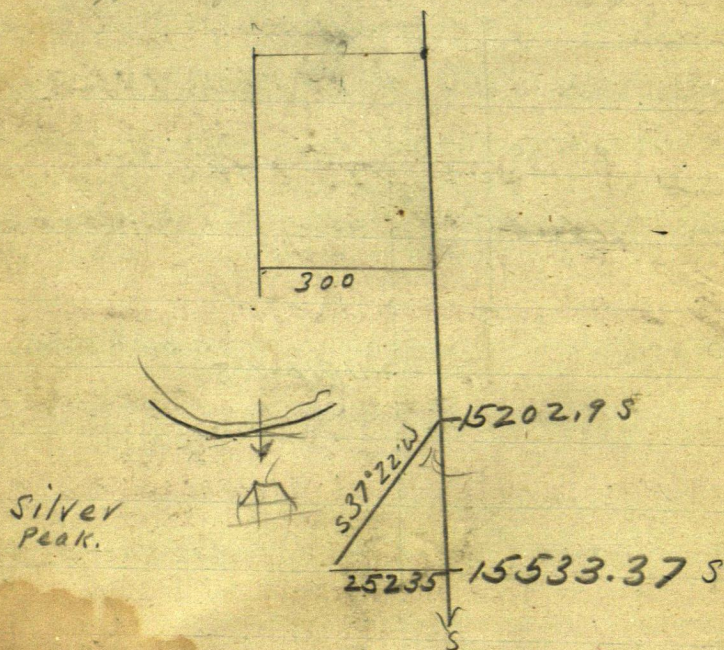
Wednesday Jan. 25, 1922

@ 8:20 A.M.

4° Below 0° 0'

Snows all day

Sam & I Clean house takes  
all day to fix it up. Wash windows  
clean off shelves etc.



37° 22'

Sine 60691K 415.8 = 252.35 OK

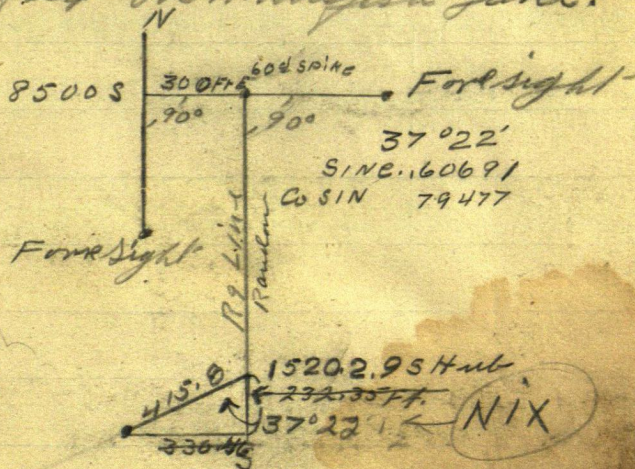
Cos 79477K 415.8 = 330.47 OK

D. Babcock



## Range Line

Thursday Jan 26, 1922 14° above 0°  
 Sam & I started to work @ 8:00 AM.  
 started from 13900. S and chain  
 13943.6 - 60 ft spike on south shore  
 of Whitefish Lake. 14200, 14228.2 ft  
 14500, 14755.5 ft on brink of hill  
 15000 top of hill 15202.9 ft on  
 top of hill Look for SW cor of sec 12  
 find NW & SW B.T.S. Plainly marked  
 from Hub. 15202.9 S cor stands  
 S 37° 22' W 415.8 ft on account  
 of offset on Whitefish Lake.



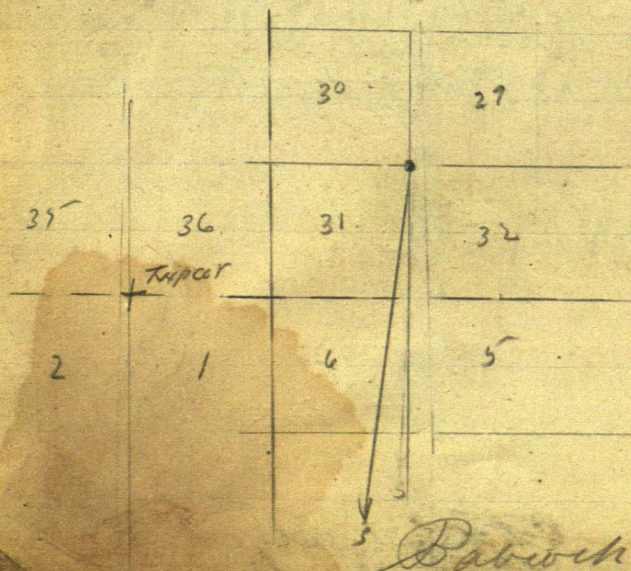
J. P. Babcock



So But 31-32-138-27

Friday Jan 27, 1922 14° above 0°

Sam Schukitz + I leave camp  
 @ 7:30 AM. for SW Cor of Sec 29-138-27  
 where we start Random line  
 South to locate SE Cor of Sec 6  
 137-27. Cut line all AM. after  
 dinner bring brush scythe cut  
 small brush + chains South @  
 300, 600, 900 stakes not on line.  
 274.6 Hub. 1200, 1475.5 Hub. 1500,  
 cut line South about 300 ft. to claim  
 Hard for 2 men to cut brush claim  
 and Run line.





Bt 56-13727

Saturday Jan 28, 1922 18° above 0°

Sam &amp; I leave camp @ 7:15 A.M.

Start @ 1500 S. Continue 1800, 1945.25  
 1 tub, 2100, 2400, 2700, 3000, 3300, 3600  
 3900 stakes not on line 3948.7 604 stake  
 in ice on Trout Lake. Cut line to top of  
 high bank South shore Trout Lake  
 12:00 A.M.

P.M.

Sam & I leave camp 12:50 P.M. Line  
 in 1 tub on top of hill & chain South  
 4200, 4500, 4800, 5100, 5400, 5415.75  
 1 tub on top of hill 5280 comes near  
 brink of hill but line E & W may  
 bring it North from there.  
 5400, 5677.9 1 tub, 5700, 6000 stakes  
 not on line. 6096.75 1 tub 5:15 quit for  
 night.

5415.75 <sup>feet</sup> E  
 5677.90 " E  
 6096.70 " E

ft then West

J. P. Babcock,  
 Asst. Co. Surveyor.



26

Nndex

Plot Bet 5-6-137-27 Pg 5-7

USNale Pg 11

South Bet 5-6-137-27 Pg 24-25-28-29-32-(33 Bottom Pg)

Sunday Jan 29, 1922 28° above 0° 0'



Monday Jan 30, 1932

Snows all day.

Fish for Lake trout get one  
Laver.

		3926.40
5235.22	5235.22	
1308.80	1308.80	
	2616.40	
5235.20	3926.40	1308.80
		3926.70
1308.80	1308.80	
3	2	
3626.4	2617.6	1308.80
		2
	3926.4	2617.60



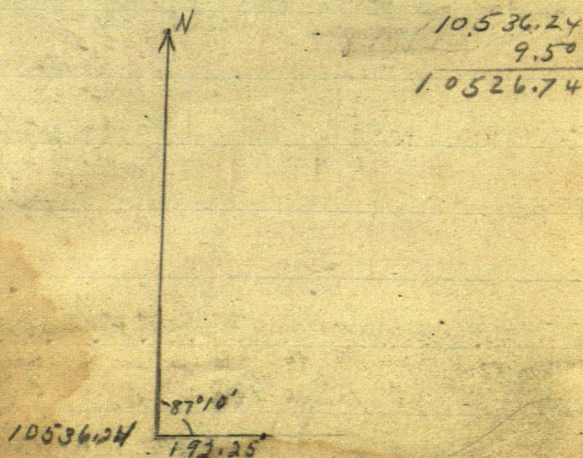
So Bet 5-6-137-2)

Tuesday Jan 31, 1922

Sam &amp; I start for work @ 7.50 A.M.

start at Hub. 6096.75 and continue  
Random line south across Hen Lake.6575 Enter La Hen Lake 9180 Island Hen  
Lake 9212.0 S 60 d spike on Island.9300 on Island 9400 leave. 9600, 9900,  
10200, 10500 stakes Not on line.

10536.24 Hub U.S. chain. look for

Cor to see 5, 6, 7, 8 137-27 find N.W. &  
S.W. B.T.'s Plainly Marked.let cor & take new bearings. Vor.  $8^{\circ}15' E$ Pop. 4 N  $43^{\circ}10' E$  25.7 Ft.Old NP 35.9 N  $23^{\circ}30' W$  59.4 " } Check for correct distanceOld WR 97.10 S  $32^{\circ} W$  20.46 " } O.V.Pop. 5 S  $70^{\circ}20' E$  38 Ft.From Hub 10536.24 Cor stands N  $87^{\circ}10' E$  192.25.

D. Babcock Civil Co. Surveyor.



137-27.

29

1°03'  
Sine .01832  
Cosine 99983

Box 5-6

Wednesday Feb 1, 1922.

Snow and warm all day Lay up

JWCarr and Herald get Wm  
Boozell and his team to drive them  
from Cross Lake to Michener Cottage  
to Cross Lake @ 2 P.M. at Cottage 4.30 P.M.  
Boozell and team go back.

P.M.

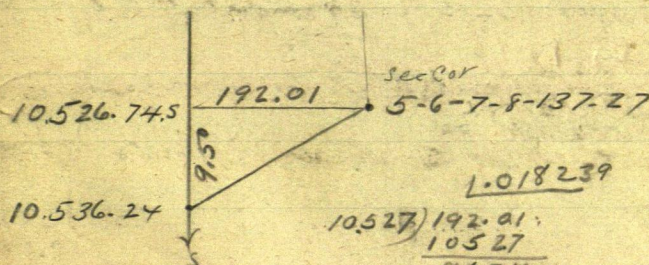
Figuring Corrections

87°10'

1°03'

(31)

Sine 99878 x 192.25 = 192.01 E OK.  
Cosine 04943 x 192.25 = 9.50 N OK.



1.018239

10.527/192.01 =

10527

86740.

84216

25240.

21054

41860

31591

1.02770

10527  
1824

OK 42108.2

21054

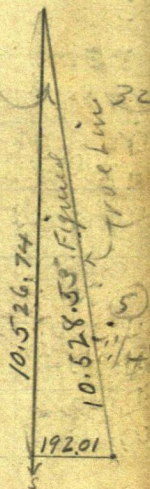
84216

10527

192012782

Corrections = .018239 of foot E for each  
foot South via random = Tang 1°03'  
Call this "1824" E

10.536.24/9.50 = .000902 of foot N. for  
each foot South, via random





# TIME SHEET FEB. 1922.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Feb.					SUN												
John W. Curo		1	1	1	0	1	1	1	1	1	1	0	2 45	2 45	1 1/2	1 1/2	1
EXP																	
I. P. Babcock																	
B. A. Michener																	
H. J. Curo																	
Sam Scholtz																	
Carl Schultze																	
Hank Blow																	
Micheners Team																	

7/2

Also on Page 16-30-70-100-



## Board Sheet

With Michner, B.A.

Feb. 1922.

John W. Curo

I. R. Babcock

H. U. Curo.

Chas. Webber.

Harry Hill.

B.A. Michner

Sam Scholtz.

Carl Schulze

	1	2	3	4	SUN 5	6	7	8	9	10	11	SUN 12	13	14	15	16	17
John W. Curo	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L
I. R. Babcock	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L
H. U. Curo.	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L
Chas. Webber.	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-
Harry Hill.	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-
B.A. Michner	0	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
Sam Scholtz.	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L
Carl Schulze	-	-	-	-	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L	S L

80



Feb. 2-1922 Thursday

Bert Michner leaves camp @  
4 or 5 am. walks to Blows place at  
Swanberg P.O. catches stage and  
goes in to Pine River

Too windy to work - not cold. sun  
shines some. Sam Schultze and I  
in camp. Harold and Luer go to  
fish house. get back 2 pm. with 5 fish

I figure corrections

10009022 lbs. 0182396

Line bet 31-32 - 138-27 on random

Hub

13208 " N 1.19 to 1318.815 and E 24.05  
2640 " N 2.38 to 2637.625 " E 48.10 1/4  
3960 " N 3.57 to 3956.435 " E 72.15 5/16  
5280 " N 4.76 to 5275.245 " E 96.20 section

5280 + 1296.24 =

But 56-137-27

6576.24 " N 5.93 to 6570.315 and E 119.84 1/4  
7896.245 " N 7.12 to 7889.125 " E 143.90 1/4  
9216.245 " N 8.31 to 9207.93 " E 167.95 5/16  
10536.245 " N 9.50 to 10526.74 " E 192.01 section

96.20	1X	18239	=	18239
23.64	2X	"	=	36478
119.87	3X	"	=	54717
	4X	"	=	73956
	5X	"	=	91195
	6X	"	=	109434
	7X	"	=	127673
	8X	"	=	145912
	9X	"	=	164151

Michner returns @ 9 pm

2889.12  
6570.31  
1398.81  
1318.84  
vii Rand



53

Cor

→ E  
See Pg 22

15840.00  
15833.32

6.63 8200  
15833.37  
~~15533.375~~ 0'10'

25235

+0030676

~~15,533.37~~ 47.65

$$15.833.37 \overline{) 47.65} \quad \underline{.0030095^E}$$

15 833.37  
15 533.37  
15 833.37 mch  
Range Line

$$0.5525 N. = 6.635 \text{ knots}$$

1320.5 " N. 55° T. 1319.45 S and E 3.97  
2640 S " N. 110° T. 2638.90 S " E 7.94  
3960 S " N. 166° T. 3958.34 S " E 11.97  
5280 S " N. 21° T. 5277.79 S " E 15.88 Temp. Co. ~~seen~~ ✓

6600S" N 2.76T. 6597.245 " E 19.85 = N 1/16  
7920S" N 3.31T. 7916.695 " E 23.82 = 1/4 ✓  
9240S" N 3.87T. 9236.13 " E 27.79 = 5/16  
10560S" N 4.42T. 10555.58 " E 31.76 = 5/8 ✓

Hank Blow arrives late with  
Michener's team. Locomotive @ 8:30  
Harold and I in one crew Bob &  
Schultz in another.  
Put up red flag @ cor 10-56-7-8-  
137-27 then Bob drives 3 miles  
John W. Cress over



34 Feb 3

west to cor 2-3-10-11-137-28  
find red cedar stake check with  
old US BTS by NE-NW-SW

new BTS viz

JP 5N 27°10'E 57.7 FT

NP 6N 36°W 34.8 "

JP 8 S 68°35'W 28.0

NP 4 S 53°30'E 12.50

Sight 3 miles east on red flag and  
set line E of Sam Schultze  
and Bobcock work alone

Except that Bert Michener leaves  
camp about 1-P.M. and walks 3 or  
4 miles west and takes a line to  
Bob & Sam. Took no lunch

I come in a little ahead of Harold

Harold Snow shovels 1 1/2 miles  
north and checks the stakes to

cor Sen 25-30-31-36-138-27-28 OK.  
but crooked line of stakes chained  
by Michener & Bobcock

all get to camp after dark

No dinner for Sam and Bob

Hank Blow goes home with team after  
dinner

Sam Schultze goes home to get Carl

JAC:ms



Feb. 4-1922 Saturday

Harold and I correct line  
 @ Hub MKd 7832.7 is really  
 8132.70 So on brink of Hi bank  
 N-side Whitefish Lake on Range  
 line we run East @  $90^\circ$  to random  
 24.48 Ft and set 60' spike  
 red cloth & red flag  
 7916.70 So run East 23.82  
 set 60' spike red patch for  
 line  $\frac{1}{4}$  Cor

Bet 1-6- 7137-R 27-28

Old B.T.S.

15" WP Slumps S E 26.2 ft

7" Maple N  $69^\circ$  W

New B.T.S. Uij

at 7517.5 Chain E 22.62-  
 nail & red patch - and red flag  
 on line Range line

7108.5 run East 21.39 set  
 nail & red patch also red  
 flag on line. walk to camp  
 for dinner @ 12.20 PM.

Fifty snow particles fall  
 all day.

PM Lve 1.30 PM

@ 6950 S-Lv Ice Trout Lake back of bank  
 8175 foot of bank ends Whitefish Lake



Feb 4-1922 Saturday Contd  
Range Line

@ 5280. to chain N to 5277.79 then  
E on 15.88 set 604 spikes red patch also  
6 ft pole and red flag on ice for line  
corner Twp Cor.

137-138 R 27-28 on ice in Trout Lake

6600. chain N to 6597.24 S. Then 90° E and  
19.85 set nail & red patch also pole and red flag  
on ice Trout Lake @ H  $\frac{1}{16}$  bet 1-6  
137-27-28

Coming back @ T @ Hat mark 7832.7  
which is 8178.7 num

South on ice in Whitefish Lake  
Find Babcock Hat 8500 ~~at~~ about  
1 foot off line. This hat is really 8800 S.

Herald and I chain South on  
Whitefish Lake @ 9236.13 set stake  
Temp S  $\frac{1}{16}$  bet 1-6-137-27-28

10.555.58 set stake Temp on 1-6-7-12  
on Range Line

Babcock walks 4 miles West  
and cuts line along all day Sam  
fails to show up.

Herald and I meet Babcock coming  
home after dark. we find Sam and Corl  
shells in camp when we get in

Sunday 5-1922 Herald and I  
spear one fish cock in our  
pen. all lay up



Feb 6-1922 Monday

37

slightly colder just zero  
at 7 am. starts snowing lay in  
and Lv camp @ 9<sup>27</sup> am.  
Babcock. Carl and Sam Schub.  
I go 3 miles west and conclude to  
take their lunch. I collect him  
Herald and I collect him

See Page 33. Chain 90° East 27.79 ft  
@ 9236.13.5 set nail and red patch also tall red  
flag on ice for S 1/16 bet 1-6-137-27-28

@ 10.553.58 So. set Hub on Whitefish  
Lake Turn 90° and run East 31.36 ft  
set nail & red patch also tall red  
flag on ice for line corner to run  
1-6-7-12-137-27-28

Transit @ Kandahar hub 10.553.58  
sight a mile East on red & white  
flag @ Cr to 5-6-7-8-137-27. NE  
angle reads 89°  
set a picket line 80 rods East on  
ice then walk back and cut line  
on point on range line L @ 11-20  
Ar camp 11-30 am. dinner in camp  
Sam corner out @ 10-4 mi. cold no  
wind. PN

Herald and I Lv @ 1.05 PM  
Beg @ Cr 5-6-7-8-137-27 chain  
West toward Liavut on ice Cr  
250 int low land 300 ft  
475 int low pt from Sr  
55° at  
600 station in 200 ft N of main  
land. 900 on ice 200 ft  
main land over



Feb 6-1922 Contd.

1200 - 1320 stak 300 n of  
main land which runs Sd  
He bank and 600 S of Cabin  
on SW cor of Island - a line  
will cut almost E of Island  
perhaps west of E

1500 - 1700 where 325 ft of  
and in line with NW cor of bank  
which runs S about 110° W helps  
with 1800 stak 2100 - 2450

2640 stak 2700 - 3000

3300-3600-3900-3960-4200

4500-4550-5100

+80.5 - 5180.50 sec cor

on ice.

Coming East to 1/4 bet 5 and 6  
137-27 on Island Lake. we work transit  
on random line and from stak 7800.  
Chain South 89.12 ft 7889.1250

Turn 90° from random and run East  
143.90 ft and set nail with red patch  
on ice also set stak & red flag for  
line 1/4 corner. In comp @ 6 ft.

Babcock with Cort and Sam Schul-  
tz, bring up line from Cor 1-2-3-10-11  
137-27 foresighting 3 miles East on

red flag @ Cor 1-5-6-7-8-137-27

3-6-9-12-15-18-21-stak 2388.2 Hub

24-27-30- 3287.95 Hub

33-36-3900-stakes and quit for mile  
get in flin dock.

Joe Curran



Feb 6-1922

137-27

39

contd.

At 2640 East But look for 1/2  
bet 2-11-137-28 when US valis  
call for

WP 18N 29E 83 LKS = 54.78

YP 18S 50E 11 " = 7.26

at.

3086.74 (=5889 LKS) on West  
side Whitfish Lake US valis say

WP 8N 44 1/2 W 28 LKS = 18.48 ft

WP 8S 27 W 36 " = 23.76 "

do not look for them.

@ 8-PM I figure correction and  
write up notes.

### Corrections

But 6-7-137-27 as US valis do  
not give this dist - we estimate  
same by taking the mil. N and  
mils 50 of this line U of

N. side sec 6 - is 5131.50 FT US  
S. " " 7 " 5270.10

2110401.60

5200.80 FT US

5180.50

estimated.  
= my ch of this = ⑥ 20.30 short  
5200.50 US

US	US	US	US
1240.80	1320.00	1320.00	1320.00
4.85	5.15	5.15	5.15
1235.95	1314.85	1314.85	1314.85

my ch

5180.5 W

3946.55 W

2629.70 W

1314.85 W

See Pg 58

5180.50 my ch

quit @ 9-20 + write down ch to 10. 6000.55  
write woodhead note for Howard also  
" Red Star etc. JWC  
60 below



40 Feb 7-1922 Tuesday

Bert Michner gets up @ 4 am.

Lvs @ 5<sup>30</sup> am. goes with Frank Blow  
stage to Pine River

Carl Schultze is to cook in  
his place. We get up @ 6-30.

22° below zero bright sunshin

Herald and I work on E line  
see 6-137-27 and get to camp  
at noon

Bob and Cien walk two  
miles west and bring up the  
line East (Contd from P 738)

39-42-45-48-5100- stake 5280 Spk  
and both shot

54-57-60- (Nale: about 4000 E. end  
lake) 5650 L. lake.

60 25.90 Spk on point of land E of  
Trout Lake narrow

6200 about end white fish lake

63-66-69-72-75-78-

78 00.9 Hab nice

91-94-97-1000-10300

10. 438. 95 59 Hab nice

measured random from the north

Cor 1/ 1-6-7-12 beam

E 66° 09' S 77.9' W (Right)

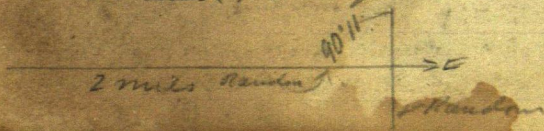
NW angle of random lines  
reads 90° 11'

2" 90° 11'

looking N.W. from Hab 10. 438. 95-

Carl gets in @ 12.20

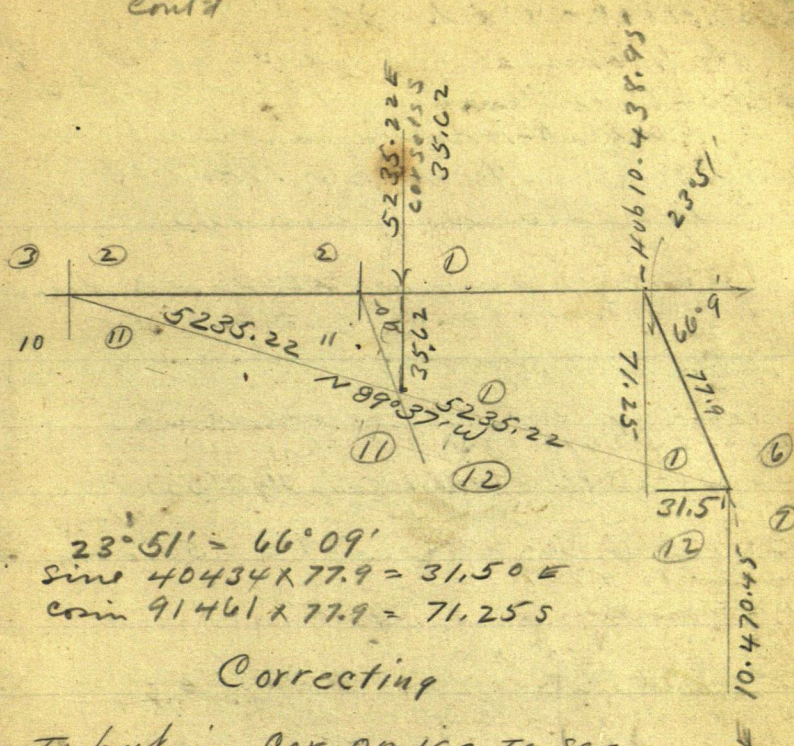
Bob and Sam get in @ 1-30-pm.





Feb 7-1922  
cont'd

41



$23^{\circ} 51' = 66^{\circ} 09'$   
 $\sin 40434 \times 77.9 = 31.50 \text{ E}$   
 $\cos 91461 \times 77.9 = 71.25 \text{ S}$

### Correcting

To put in Cor on ice to see  
 1-2-11-12-137-28

@ 5235.22E. We are to turn  $90^{\circ}$  to  
 random and run South 35.62 ft  
 and put up red flag.

Bab & Sam set up on 1/4 Cor  
 bet 1-5- on Range line sight- so 1/2 mile  
 on run on Turn SW angle  $90^{\circ} 50'$  fixant  
 telescope and run E at about a hundred  
 feet and hit Birch line. This should  
 have been  $90^{\circ} 50'$  for S.E. angle

Herald and I go to stake 5400 S ch  
 $\sim 124.76$  to  $5275.24$  S. Turn  $90^{\circ}$  and  
 run E at 96.20 set stake for

Temporary Cor to 5-6-31-32  
 on straight line 2 miles from  
 cut line west to Trout Lake.

J.W.C.



42

TROUT Lake

Feb 8-1922-Wed. SURVEY

Nichner still in Pine River

Carl Schultze cooking 18° above zero

@ 9-25 Bob-Horold-Ham went out

set line on 1/4 bet 1-6-137-27-28

Look so on line line turn 90° 50' L  
and cut line EastI am in camp figuring corrections  
Carl cooking lunch to take out.

Looking up my old field notes of

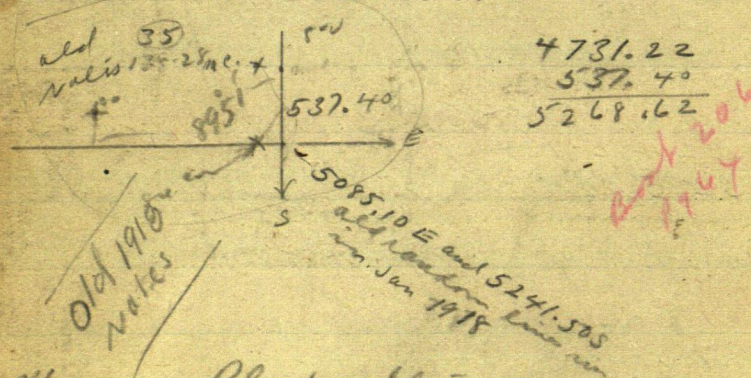
Timothy Twp Ry 64 Book No 6-

Jan 24-1918. I find the line bet

35-36-138-28 short. .002155579

feet. The 538.56 ft OS from MC to 1-

or 1-2-35-36- also short 1.16 = 537.40

added to 4731.22 = 5268.62 all figured  
via random run in 1918.

Blow and learn

Arrive @ 10-30 am with supplies  
and gas right back. I figure till 11- am  
and to with cart and lunch  
we all eat on Range line to west of  
point.







44

Feb 8-1922 Could PM

Herald and I go NW to

M.C. on N side Trout

Set lall pole and flog from slatup

7.44.55 BT and new BT. viz

20° N P 51.8 N 38° E 48.18 old

- N P 10° N 56° 30' W 53.60. new comp.

set lall pole in mound of snow-red  
flog by flat chain and start to go  
but find we are running too far left

Babcock a mile to flag on west  
on line with M.C. from which we  
chain 537.40 ft and set lall flog  
in mound of snow for line sec Cor  
NW Cor Sect-137-28. Then we chain

South on true line bet

1-2-7137-28 till we meet Sam  
and Carl Schultz coming from the S.  
Sam + Carl have 3300. ft

we have 1800 + 201.00 = 5301. ft lall  
correcting

@ 2650.50 N set short stake in mound  
of snow in lake front for 1/2 Cor bet 1-2-

1325.25 N set lall flog in mound  
of snow for 3 1/16 bet 1-2-137-28

Chained N from

1-2-11-12

set by Babcock viz

at 5235.22 E Ch 90° South 35.62  
ft and at Cor to 1-2-11-12-137-

28 on ice in Trout Lake

Correction for this two



miles straight is

.00682 of a foot so far each ft  
E ork being  $0^{\circ}24'$  about  
( $0^{\circ}24'$  reads .00698)

At 3926.40 E ork Bab sets  
Hub on random line  $90^{\circ}30'$   
26.70 and sets tail stake for  
E  $\frac{1}{16}$  bet 2-11-137-28

BTS Vj

Balsom  $2\frac{1}{2}$  N  $78^{\circ}$  W 171.00 ft

Buch 451.45 W 47.90 "

with Harold & Compore

Transit @ Cor 1-2-11-12

Look right North to NW corner

1- also MC on N. shore - Transit  
lenses - look South to

spot a base of 12 inch Elm  
284.75 ft to 10 $\frac{1}{2}$  nail & red  
polish nail will not drive of  
foot. Then

Look right West on  $\frac{1}{16}$  Cor  
and look E ork on line line  
471.80 to flat spot at base of  
6" W. Oak 10 $\frac{1}{2}$  nail and red  
polish. This nail also refuses  
to drive. Clear in

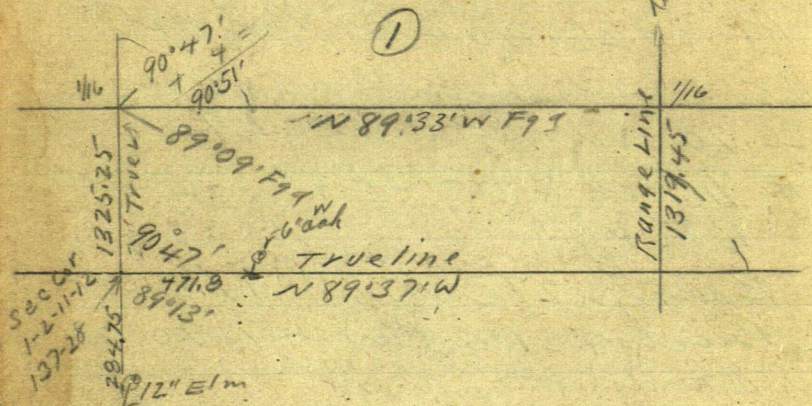
Just.



C.R. 1-2-11-12-137-28  
NW angle of line lines reads  
89°13'

137-28

①



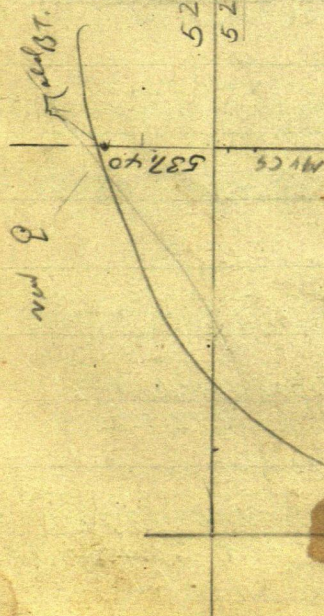
Nulla in die No. 55



35.89  
35.07  
82  
41  
20  
1.

Book  
159

47



5280.0 US  
5272.22 mych  
7.78

5131.50 US

5096.21 mych  
35.29 short

137.27

①

2

F19 @ 60°

Random 3 mi. straight  
N 89° 10' E  
True 5180.50 mych  
0.1433  
0.04413

5235.22  
5235.22  
5235.22

5235.22  
5235.22  
5235.22

10470.44

518

7.78

about

3 1/4



48

Feb 8-1922 Cont'd

Sam and I take bearings of Trout Lake  
narrow  $\overline{N}$  Cor 1-27-12-137-28

Looking west or north on line line as  
Mendian don't remember -- (North  
I think)

8" Elm - with 3 valches in SW side and  
standing on the brink and 25 ft NE of pt of  
land bears S 69° 55' E 352.10 ft rough ch

6" Oak - 3 valches in NW side, 6 ft NE of  
brink bears S 64° 38' E 389.70 ft rough chain  
Note: The 6" oak we call SE Cor Bridge site  
8" Elm NE Cor Bridge site

old stump root S 65° 10' E 354.3 ft at brink  
note: another better stump stands about  
6 ft south

S 13° 05' E 298.20 rough ch to North  
part of sign board on West pt of land at  
narrow -- 10 ft W of pt for West end  
of New Bridge site

Carl starts home 30 minutes ahead  
But get in at dark. 20 - above zero  
Bright sunshine all day

### Corrections

To get Length N side, see 1-137-27

E side runs on 0° 00'

W " " N 0° 24' W  
0° 24'

Tang = .00698 + 5301. ft = 37.00 ft added to  
5235.22 on W side of cut = 5272.22  
for N side, see 1-137-27 Figured

Figuring Course of N line see 6-137-27  
So side runs N 89° 10' E W side is 24.50 ft  
longer than E side 5272.22 - 24.50 =  
= .004647 = 0° 16'



Trout Lake  
Michner Plat

49

Feb 9 1922 Thursday.

Michner Still at Pine River

20° above zero @ 6 a.m. Cloudy

Babcock and San Schultze take lunch  
and go 2 miles west - set up on S  $\frac{1}{16}$  bet  
1-2-137-28 turn 90° 51' N.E. digger and  
run East on what should be true  
S-  $\frac{1}{16}$  line of sec 1 -

at MCN<sup>o</sup> - US Halls say MP 18N 22E 310 -  
204.6 WB 85 76W 215 = 141.90 find all  
bluffs

Harold and Carl Schultze Beg @  
Twp CO<sup>2</sup> in Trout Lake Chain + W on line  
I stay in and figure conclusions

Figuring course of N line sec 1-137-28  
S. side run 89° 37' W. West side is 23.21  
longer than E side 5272 into 23.21  
= .004402 = 0° 15'

Note: Hat 6096.75 on E line sec 6  
is NE of big hole and south limit for  
road purposes

Carl gets in about 12. Harold cuts  
line till 1 - PM

Chain East on N side sec 6 - to  
420° E set stakes PM

Correction

To make random staking at 2 miles  
from SW Co 29-135-27 to NW Co 8

137-27 = .018239 of a foot E for each  
ft South = 1' 03" N. 1' 18.24" E



50

Feb 9-1922 Cont'd  
PM

Corl-Horald and I go to Hub 5275.24 S  
on random Horald sets Hub @ 4800 S

Then I read NW angle of Random  
lines = 90°45'

Corrections

@ 1824" Hub 4800 S goes East

87.55 ft lks on straight line  
Two miles N.W.

Horald and I beg @ stake 4200  
continues East

on Towns Line

4285' 2 of 10" cedar on brink of Low  
land which extends about 80 ft S &  
= 15 foot of high hill Top of hill about  
250 ft S and some East.

4500 stake 25 ft N of foot of hill  
and 50 ft from Lake shore on flat  
ground 4' above lake Top of Hill 150  
S = 4690 foot of hill 70 ft from  
water 4800 side hill 20 ft from  
bottom and 120 from water

4930 brink of hill

4800 + 203.6 = 5003.60 Hub on  
random. + 96.2 = 5099.80 Hub

Temp on

1130

ft 21 of random

4800.00

203.60

5003.60

96.20

5099.80

5100 + 55 = 5155 S

bank of Low land 4' above water

5217 foot of hill

@ 5099.80 + 0.20 = 5100 stake

Horald read Continues East

5268.00 Hub



Feb 9-1922

2036

51

Cov'd

thence down long hill 5400  
5526 foot of hill, 5600 bottom  
of hole overflow from Trout Lake  
bags 20 50ft Lake is 100ft - Left  
narrow sea wall along Lake 5700  
slak near E. edge of hole.

But Michener is in sight  
coming with a pack across Trout  
Lake 5:40 PM Too dark to  
see more

at Hub 3287.85E but sees  
2-11-137-28 Bab and Sam  
Lake lies to hold point on ran-  
dom line

Maple 7N about 60°E 16.70ft  
Elm 7S " 50°E 24.05

Herald and I walk in with  
Michener and find the rest in  
camp at dark. 6 o'clock.

Just.



52

Feb 10-1922 Friday

Bab and Sam go west. Harold  
I and Carl NE. are on ch job at  
7-20. I take a camp and have to  
walk half mile back to camp for  
rods

Best corner back with meand out  
all 4 go East but seen

5700-6000 - stakes

6041.00 Set 10 d nail red patch  
20 ft from this bank 10 ft from 40 ft from  
Trout Lake

Ties Oak 6 S about 80 E 11.77  
" 5 S " 45 W 31.80

To flat spot

6150 end of Trout Lake bottom

6300 stake on shore. Lake runs

100 ft 20 6400 Lake bottom

60 ft 20 125 ft Low shore 6' hi

6560 L Lake

6600 stake in line Ties

5" NPS about 80 W 22.09 //

3" NPN " 5 E 23.22 //

To flat spot at bore

6900-7200-+10=7210 E old

road NW-SE +80-7250

small stake 7310 near 10 rod marsh

7500 22 L marsh foot hills

7280+300=7580 stake on mid

" 7580+74.50=7654.50 stake

on big hill. 7771.50 stake for hub

in line Temp 1/4 Cor bet

31 ft E of old road NE-SW



7920	2307
<u>7655</u>	<u>7</u>
265	2293
	<u>29</u>
	232.2

5131.50
<u>2640.00</u>
7771.50
<u>7654.50</u>
117.00

2180
<u>29</u>
2209
<u>121</u>
226
<u>126</u>
79.86

7520
<u>745</u>
7654.5
<u>92</u>
552
<u>552</u>
6072

From Hub 7654.50 E 1st fr spot  
at base of 24" WP stump bears  
S 44° 44' E 103.80

US Natl call fr: see p. 5  
YPI 4N 50° W 121 = 79.86 N = 80.40  
WP 24 S 9° E 92.415 = 60.72 ..

all gather at cottage for  
dinner. Babcock and Sam hand  
in their valises.

Beg @ 5 1/6 bet 1-2-137-28 Turn  
NE angle 90° 51' R. and run East

1447.4 set 2x36" hub & lock and  
back shot. 30 inches from  
from low brink @ 1500 slabs

1548.3 Hub & lock on brink of 150 ft  
hill on Trout Lake - 1800 - 1961.9

Maple hub & lock on slight rise

2100. 2343.2 set 60 d spikes red  
patish about 10 ft west of brink  
on Whitefish Lake. Hit out 0.15 of  
a foot so of the 20 1/6 set Hub in  
above

69	103
<u>414</u>	<u>618</u>
414	618
<u>75.54</u>	<u>6798</u>



54

137-138 R27-

8000 on 4-5-32-33-

see page 5

West bet 5-32 18' 59' E

8.00 L. m.p.

2197 m.c. E m.d. Lk = 1450.02 Feet

Y P6 N 87 E 69 = 45.54

" 24 S 72 E 103 = 67.98

2849 m.c. = 1880.34 Feet

m.d. m.c.

Y P14 N 38 W 40 = 26.40

" 24 S 9 E 92 = 60.72

4000

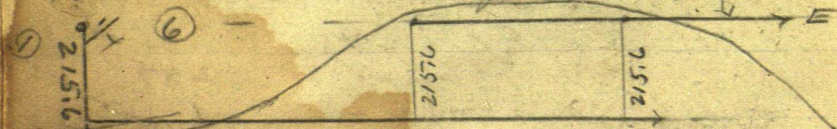
Set 4

Y P14 N 50 W 121 = 79.86

W P 24 S 9 E 92 = 60.72 m

P.M.

Sam and Bob go back and  
at Hub on brink of whilfish 215.6  
ft so of 1/4 Cor but 1-6. offset  
so 215.6 ft from our timber and  
run East see plat 22



Carl goes with Sam  
and Bob



Feb 10 - 1922 Friday cont 55

Heavy wind swings to NW  
drops about 30° colder Heavy wind  
Bert Harold and I

Reg @ 7771.50 = Temp  $\frac{1}{4}$  bet 5-32

Continuous E or E.

300 = 8071.50 stake. 696 = 8467.5

enter lake. NE-SW (516.2 E Hub)

old USBT stump not

marked or called from my notes

beams about 70° W about 25 ft

900 stake near 1158 L. of lake

1200 - stake 1425 touch NW cor

small bog 1500 stake npt

from north 1520 enter ox lake

run about N 20° E 400 and

S 20° W 300 ft to pt. of land

1800 - 1970 L. of Lake enter marsh

2100 - 2400 - 2640 - 2700 stake in

swamp. We set stake 0.60 of foot

so of line random and at 2640

+ 10. 411.50 E set stake 0.60

of foot so of line random line

BTS Vig - Dead lines

WP95 30° E 57.7 + .27 = 57.97

WP 10N 20° E 20.6 + .27 = 20.87

Then beat it back on acct of fierce  
cold NW wind. Harold and Bert  
go to camp. I go to Frank Blow place

Alma and Gerald L. Bed @ 5 PM.

drive to Jenkins. I get them by phone

@ 6.15 - also call HEKundert at Bed

who will give Alma \$50. when she gets back

I blow home to camp by moonlight

gwc.



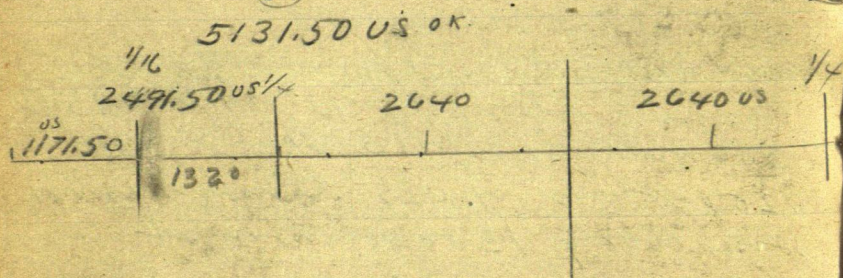
56

Feb 11-1922. Saturday

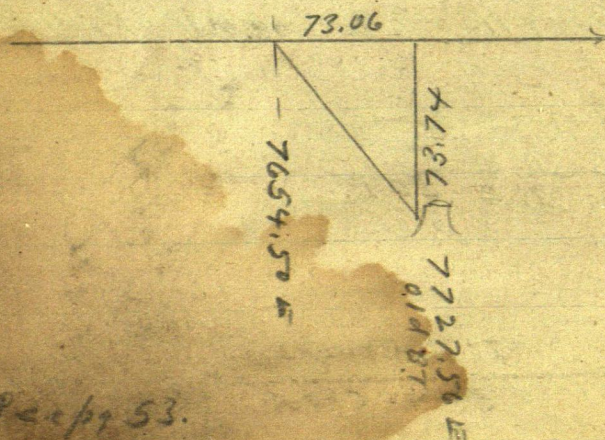
20° below at 6 am no wind  
 Bat takes whale crew to cut line  
 E. this can see 6-137-27

I figure Corrections in camp  
 with Bart.

(31)



S 44° 44' E  
 Sine  $\cdot 70381 \times 103.8 = 73.06$  E  
 Cos  $\cdot 71039 \times 103.8 = 73.74$  S



Page 53.



# Corrections

57

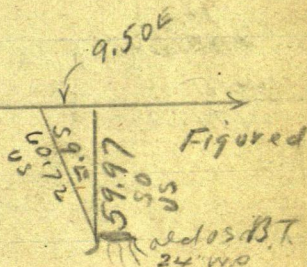
S 9° E 60.72 FT US.

Sine .  $156.43 \times 60.72 = 9.498$  E OK

Cosine .  $98769 \times 60.72 = 59.975$  OK

7771.50 vs  
7718.06 much  
53.44  
short

7654.50  
63.56  
7718.06



73.06  
9.50 OK  
63.56

73.74  
59.97 OK  
13.77

Nat. as alld

7054.50

73.06

Plaster

63.56

9.50

13.77

13.77

73.74

7771.50 FT US

7718.06 much

53.44 short

13.77

53.44 short

7771.50

Hub  
Tompson

over



58

## Corrections

53.44 Ft Short in 7771.50  
 = .0068764 of a foot West for  
 each foot East

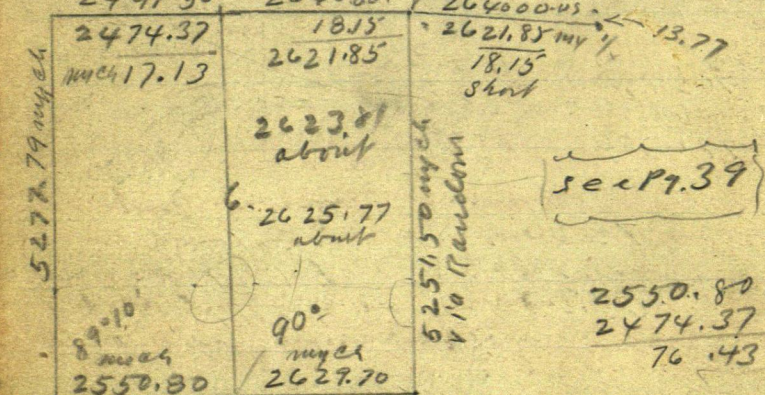
2491.50 E goes West 17.13  
 ft west to 2474.37

5131.5 goes west 35.29 to 5096.21 E

7171.5 E " " 53.44 to 7718.06 E

and South 13.77 to line 1/2 Blt 5-32

2491.50 5131.5 7171.5 2640.00 26400.00 137138.2



$$1.014503 =$$

Estimate 5270) 76.43 =

Tangent = 0°50'

$$\begin{array}{r} 2474.37 \\ 2474.37 \\ 2474.37 \\ 2474.37 \\ 2474.37 \\ 2474.37 \\ 2474.37 \\ 2474.37 \\ 2474.37 \\ 2474.37 \end{array}$$

Bert Muehner and I stay in all  
 a.m. I figure corrections Harold comes  
 in @ 9-30 with frozen feet. Bert and I  
 apply snow to. Bert and crew get in  
 @ 10-a.m. all stay in & cold & wait  
 for Harold and I to get corrections figured  
 Bert & crew go fish 2 hrs. Sam gets dinner  
 J.W.C.



Feb 11-1922 Could

59

10° below zero @ 11-9 m.

strong NW wind Sunshine, etc.

### Corrections

At limp NE cor sec 6-137-27

= 2 ft stake being 5099.80 E set transit  
here - focus north to flag on sec 6 turn  
90° and run 3.59 ft West to 5096.21 E  
our random E & W would then pass

- 1.10 ft North of line NE cor sec 6

All in for dinner @ 12-30.

Babcock's Center line of sec 6-137-27  
coming from the west, hits about 3 ft  
to of limp 1/4 bet 5-6  
we will look this up later.  
P.M.

Bab. Carl - Harold - Sam - go to  
1/4 bet 6-7-137-27 - work transit on  
line chain 10.3 ft E. from stake 26.40  
W. to 2629.70 W. our which spot  
transit - turn 90° from line E-W  
Sec line and run

North on Q sec 6-137-27  
cross line @ center of sec 6 - falls about  
150 ft N of lake shore and on top of  
big hill. Continue north thru  
heavy brush.

Bert and I go to 1/4 bet 5-32  
on Town Line bet 137-138 & 137-27 W  
at hub 7654.15 E chain E 63.56 ft  
to 7718.06 E of true Twp cor then  
turn 90° run South 13.77 ft and  
set 60± spike & red patch for line  
1/4 Cor bet 5-32 NEW BTS P260  
from which old 24' W.P. stp well  
check perfect for course and distance  
previously figured

John W. Curran  
run



60

Feb 11-1922 could  
we then walk half mile west  
and @ Temp S. can - run west 3.59  
ft west 90° 15' N + S. straight line N to  
set 60° spike and red patch

BTS viz

12" Pine stump root N about 20° E 7.27 ft  
3" oak stump N about 70° W 19.07 ft  
3" oak tree S " 25° W 16.27 "  
7" Birch stump S " 85° E 25.82 "

To flat spot at base turned by guess

Note:

At 1/4 but 5-32-137-138-27

BTS viz

Oak 11 N 40° 06' W 72.12

" 55 65° 53' W 42.40

To back in flat spot at base

Bert and I come to camp - stop  
5 minutes then walk out and help  
Babcock and his crew run  
North the can of sec 6-137-27

Inherent N line @ 2473.20 E at

2474.37

2473.20

1.17 to the right.

all beat it to camp 10 4.30 a  
about 5 PM. Calcd 10 or 20 below  
some wind N.W.

A 101

Feb 12-1922. Sunday. Harold catches  
3 fish 2 by own. Sam catches 2 good size.  
Pickup all horse drivers at noon

PM.

Amishmen Calcd N.W. wind 10° above  
Bert Michener says off Corl schully  
@ 8 25° a day 6 days 815.00 ft.

phy. w. can



# Michener Survey

61

Feb 12-1922 Sunday continued

PM.

Cord and Sam go home. Harold goes to  
Whitefish Lake fish house - Bert goes  
to Trout Lake fish Ho. Bob & I keep house

(31) Figure corrections

5131.500 S

35.27

5096.21 mch

13.11  
20.22

sec cor

5096.21

3.59  
5099.8 E

1.10 ft

6600 in

2621.85  
mch

(32)

7718.06 E

13.77

(5)

(6)

Spik @ 6600 Tied viz See Page 52

NP 55 about 80° W 22.09

NP 3N " 5° E 23.22

goes West 192.86 To 6407.14 E

Then South 90° 7.43 To line W 1/4

bet 5-32-137-138-27

This falls in Trout Lake overflow  
about where it makes the largest

bulge South which is about 125 ft

I will there figure on Bert's

door "193 W-7.43 S"

13.77

1.10

214.87

7.43 S.

Cold and stormy  
all stay close to fire

John W. Cress



62

Feb 13-1922 Monday

OK 28° below zero @ 8 am too cold to work  
 OK 22° " " " " " " Bright sunshine

To find where the line bet boat  
 Look 5 and 6 - Sec 6 - T132-27 cuts the  
 Island E and W. we will set up on  
 True Range Line on S  $\frac{1}{16}$  bet 1-6.

Look so on true line: Turn Left  
 90° 50' (S.E. angle) and run East  
 to Island set spikes etc.

To put in random S  $\frac{1}{16}$  Cor on line  
 But run 56-137-27 set hub on  
 random: (see Page 38-32) - 29-50.

@ 9216.24 Chain north 8.31 T.

9207.935 Turn 90° E. random and run L  
 East 167.95 T. Turn  $\frac{1}{16}$  on straight  
 line 2 miles N.E. This must change  
 West 0.90 of foot west

.018239 E

and W ?

Correcting T. correct

E on side run 6-137-27

OK 5415.755	gave E 98.78	+ W 3.49 = 95.29	E OK
OK 56 77.90	"	E 103.56 + W 3.31 = 100.31	E OK
OK 60 96.70	"	E 111.20 + W 3.03 = 108.17	E OK
OK 65 70.315	"	E 119.84 + W 2.70 = 117.14	E OK
OK 78 89.125	"	E 143.90 + W 1.80 = 142.10	E
OK 92 07.935	"	E 167.95 + W 0.90 = 167.05	E
OK 105 26.745	"	E 192.01 + W 0.00 = 192.01	OK

Correction = .0006835 W

52 75.245	= 5251.5 N and gave W 3.59	OK
54 15.755	= 5111.00 N gave W 3.49	OK
56 77.905	= 4848.84 N gave W 3.31	OK
60 96.705	= 4430.04 N gave W 3.03	OK
65 70.315	= 3956.43 N gave W 2.70	OK
78 89.125	= 2637.62 N gave W 1.80	OK
92 07.935	= 1318.81 N gave W 0.90	OK
105 26.745	= 0.0 N gave W 0.0	OK



Feb 13-1922 cont'd

Island

63

Harold gets tipik H. @ 10 am. Cold front  
partially in air NW wind - 3° below @ 12.10  
caught an armful of big ones  
PM

all Lr camp @ 1-30 Cold-windy  
To mark pt where line bet  
Gout Lst 5-6-137-27 cuts the  
Island E. and W. Babcock  
sets up on S. 1/16 on range line look  
south-lin 90° 50' East and  
Michner drives 60± spikes on  
west shore of Island about 1 foot  
from SW side of big pine stump  
(the only big stump here) then  
he walks further East up hill  
and drives another 60± spikes  
also red patch this viz  
3" NP green stump west - 1.85 ft  
3" Birch lies south - 7.50'  
flat spot at base of both  
NOTE: This last spike should  
have been set about 3 inches south  
spikes about 100 ft apart  
Michner sets these further  
measures distance 1-1375 with  
pole.

Bab and Michner then goes to  
camp and on out East and corrects  
the line bet sees 5-6-137-27

stations 56 77.90+  
60 96.70  
65 70.31

Now they set this

108.17 E when it should have been

100.31

= 7.86 - 100 for E. We will correct this later

Jul.



64

Feb-13-1922 Could

Herald and I. begin on line Range  
line @ sta 8354.55 - which is on ice  
see Page 133. Run 437.81 ft 20 of 1/4

8354.55.

7916.69

437.81

corner. Call this

Whitefish Sta O.O.

Range line as Meridian.  
Run

N 76°39' E, on ice about 300 ft from

shore; @ 600 set sta (1); N 76°39' E 600 (2)

N 76°39' E 600 1/6 Sta (3)!

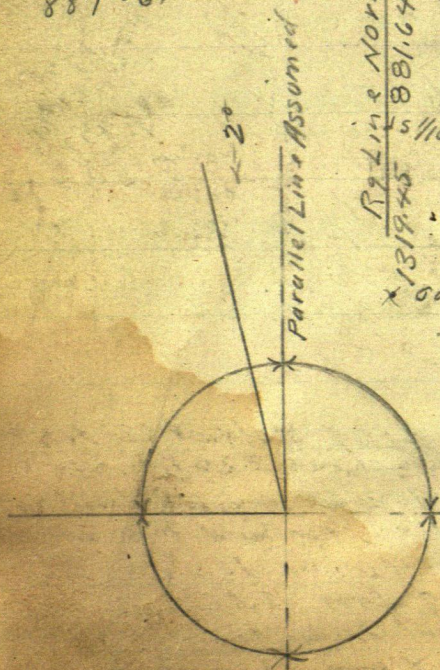
(see 1)

(see 6)

262638.90  
1319.45  
437.81  
881.64

114  
N 76°39' E  
600 600 600  
① ② ③  
437.81  
881.64  
1319.45  
5 1/6

X 500 1-6-7-12





Feb 14-1972 Tues

65

3.4° below zero @ 6:30 AM.

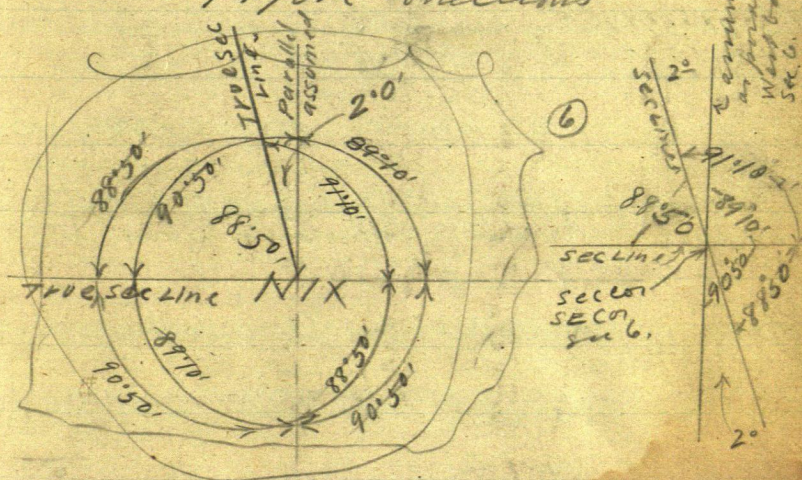
bright sunshine - some wind. too cold to work P.M.

I give Babcock \$10. cash; 2 checks of \$5 each Total \$20. He starts out to look up the corners. He is to go to NE cor 5-137-2 and run 6 miles S-2 west 6 north then East to our camp. expect him back tomorrow. mile.

just zero all PM and light dark 4° below at 10-10 PM.

Herald-Bert and I play rumorm.

### Figure Connections



To put spike in E. edge of Island bet Govt L 55-6-137-27. Bgc (Hut 9207.93 South [see Page 32] run 90° to random East 167.95 ft on second random on straight line 2. miles N to then run West 90° to straight 2 miles, only 0.90° of foot to line S. the corner bet Sec 5-6- Then transit on line sec line N 2° W and then turn parallel with the so bdy of sec 6 and run 589°10' W. --- feet and set 60° spike on E. side of Island.



Feb 15-1922 Wed.

Bright sunshine  $16^{\circ}$  below Lay up  
in a.m. - Harold goes fishing - But goes  
to shoo out wood. I figure conifers.  
O.O. Zero @ 10.30 a.m. no wind.

Harold spears and loses the big  
one - But looks up a wood out.  
all lay in  $\frac{1}{2}$  cold

P.M.

Harold and I get in a good full half  
day Beg @ sta 0.0. and run

In Whitefish

@ 449 cuts  $\frac{1}{16}$  line running

S	76.39 W	600 - Sta	0
"	"	600 - Sta	0
"	"	600 "	0
"	"	600 "	0 Set N-1.40

Turn Left and continue

S	W	600 Sta	0
S	W	600 "	0
S	W	600 "	0

Turn R. and continue

S	W	600 Sta	0
S	W	600 "	0

From which 6' oak. 3 matches in sw side  
bear N W 200.5 ft to  $\frac{1}{2}$  of  
the Seepage for this line

Bath Run Coupon 2 mi S - 2 mi W  
6 miles on Town line and back to camp  
@ 8 P.M.



Feb 16-1922 Thursday

67

32° below @ 5-30 a.m. lay in all am.  
Bert Michner Lvs camp 515 am catches  
Blow and stage @ 630 goes to P.R. for  
mud. Bright sun all am. - just  
Zero at noon. Babcock Lvs @ 12. M.  
To begin @ SW Co T138-27 and run 6. mi  
N. to C. Line where he may stay over night  
with Lee Garner. We cleaned stove pipe @  
9. am.

Val: on S 1/4 line sec T13728 Hat 1548.30 E  
on W. brink should go 10 ft E for lot line and  
20 ft W. of Hat 2343.2 E would be about E  
limit for lot stakes

PM

Herald and I Beg @ O.O. and  
continue Whitefish Lake shore line  
E on

setting stakes to sta 52. near  
Michner cottage

Michner gets back from Pine River  
fls dark with a big pothole load of gravel  
Heavy South wind 4° below  
Zero at 9 pm.

Bert-Herald and I alone

Val: sta 1800 + 779.2 cross NRS  
E from C.

Lv. Whitefish Lake beach NW + SE  
Enter mouth or overflow.

Babcock stays over night up the grade  
with G.



Feb 17-1922 Friday

Harold and I L 8-30 am

Warner - So wind. 4 above

③ Sta 524 Linn R ant trail T

551 - 57. R 290.80 to Sta 59 + 90.8

=  $N\frac{1}{4}$  Cr bet 5-6-137-27which we establish by setting .30 of foot  
further than where Bob set it

We drive 60° spike Red patch

BTS Vj

Oak 4" N about 1° E 5.40 ft to bottom  
of spot at base of lineWIP 18 S 45 W, 9.50 to dim spot  
in bark at base. Turned by eye.Walk West and put in 60° spike  
red patch line center of arc 6-137-27

BTS Vj: Oak 7" N about 20° E 10.95

" 6 S " 20° E 6.95

Flat spot above. This location Vj

2.2 N and 0.58 W of I.P. of round line

Nati: center is 25 ft from back of hill  
at 90° to range of hill top

Linn R @ 12- M.

PM.

Correcting E &amp; W of sec 6.

③ 5138.36 E. figured the  $\frac{1}{4}$  bet 5-6

set N 4.40 = .000856 N, for

each foot E

2512.58 E would go 2.15 N

We chain

Baz @ 2 sec 6 - chain East on road

= 2512.58 + 87.42 set stake "2600"

2837.7 E top of draw going to lake

2900 stake 3132.60 Hut - 3250 stake

3441.50 Hut 3500 stake - 3583.50 Hut

- about 145 ft west of lake

Nati: This should go 1/2 mile S. with.



Feb 17-1922

3583.50 is about 120 ft from foot of hill and lake shore @ 90° to lake  
 Lot stake could go 50 ft E or W and be O.K.

We correct this line by

2512.58 x .00856 = 2.15 N  
 3132.60 x " = 2.68 " nail ✓  
 3491.00 x " = 2.99 " nail ✓  
 3583.50 x " = 3.07 v

set 60 spikes @ pts marked v. thus v  
 go west set Lot Line stakes being  
 12 in nails red patch also red flag  
 red strip around top.

Test out stadia of Alor and find  
 same O.K. @ 100.

To Camp @ 5.45 Beat corner for  
 nr. 22 above zero @ 6.45 PM.

Cloudy.

Batcock gets back 8.30 To Henry  
 Oberbiller gets supper home  
 10 camp at 12-midnight

5096.22

1319.45	1163.45	1310.92	1310.92	1310.92	1295.39
1319.45	1181.57	1311.90	1311.90	1311.90	1295.29
1319.45	1199.70	1312.89	1312.89	1312.89	1319.02
1319.45	1217.82	1313.87	1313.87	1313.87	1319.03
1319.45	1235.95	1314.85	1314.85	1314.85	1314.85

See Field Book H 227

1932-6104117 2627.2

2.6 short

Pg 103  
 Bk 227

5180.53



## Time sheet Feb 1922

Mar 1922

	18	SUN 19	20	21	22	23	24	25	SUN 26	27	28		Mar 1922	1	2	3	4
JWCoro	1	0	-	-	-	-	-	-	0	1	1	-	1	1	1	3	4
Exp	-	0	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-
Harold J Coro	1	0	-	-	-	-	-	-	0	1	1	-	1	1	1	3	4
RAMlicher	TO PR	0	-	-	-	-	-	-	0	-	-	-	ask 1	1	1	3	4
IP Babcock	-	0	-	-	-	-	-	-	0	1	1	-	1	1	1	3	4

= 5

16-30-70



# Board Sheet with B A Michner

March 1922

Feb 1722

JWCuro

Harold Curo

I P Babcock

B A Michner

18  
P B  
S L

SUN 19

- B

- B

D B

S L

- B

- B

20

-

4

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21

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27



Feb 18 - 1922 Sat

Bert Michener up @ 4 - am Lus for Pine  
River via Blow stage. I get up @ 6 - am.  
8° below zero. 11° below @ 7 am.  
Bright sunshine

Bat leaves for the E.

Harold & S.  $\pi$  sta 0.0. S

Red patch in spot on 7' J.P. on bank of  
his catbank N 47° 12' E sta 1.5 E  
Stadia 452.1/2 angle 4° 30' up LL 30'  
back - water 15' out

LL Sta 00.5 at Hut

stades read 2.20 = 7° 30' up on bank  
LL 30' back water 20' out

Sta 1.5 W. 4' Bank 5 ft from bank spot red patch  
N 66° 02' W stades read 3.40 angle 5° 30' up  
Water 25' out  
LL 25' back

Creek in bank 2' lies in low spot at  
bank of reverse bend N 85° 31' W

Whitely pit back stage

From sta 00.5 run S 76° 39' W 600 ft.  
Sta 6. SW.

$\pi$  Sta 6 - Sta 1 SW then N 43° 10' E  
stades read 3.87 1/2 angle 4° 45' up  
Creek in 3' bank in run N 23° 02' W  
stades read 2.08 angle 5° 15' up

This run appears to run thro to Trout

LL Sta 2 SW  $\pi$  TS 6 - SW  
14' P stp on bank N 64° W stades 3.80  
4° 40' up

From  
TS Sta 6 run S 76° 39' W 600 ft to TS 12  
 $\pi$  at TS 12 SW



Feb 18-1922 cont

73

SW LL 24.2  $\bar{\pi}$  at SW TS 12

N 38° 31' E Rod 3.85 - 4° 40' up

LL 35 ft N water 25' out

Rod in bank near 2.80 N 11° 30' W 6° 30' up  
water 20' out LL 30' back

Sta 3 SW  $\bar{\pi}$  @ SW TS 12

2" Birch rod patch 2" from bank

N 58° 24' W station near 4.0

angle 4° 20' up LL 35 bank water 20' out

from the SW 12 in S 76° 39' W 60° 7.  
SW TS 18

$\bar{\pi}$  @ SW TS 18. LL Sta 3 N 35° 27' E

rod near 4.25 angle 4° up

LL 35 bank water 20' out

Bank N 15° 40' W

Rod 2.40 - angle 6° 30' up

Depression N 29° 11' W bank near

rod 2.80 angle 4° 20' up

Sta LL 4. = 4" Birch in bank near station

N 66° 51' W Rod 3.40 angle 3° 45'

LL 35 bank water 20' out

from the

SW TS 18

S 76° 39' W 60° 7' at station  
SW TS 24.

$\bar{\pi}$  @ SW TS (24) LL Sta 4 beam N 44° 58' E

Rod 3.80 angle up 3° 15'

Bank 2.62 N 36° 50' E 5° 25' up

Rod 1.50 N 5° 10' E 12° 30' up

" " 1.35 N 39° 10' W 17° 15' "

" " 1.60 N 65° 30' W 16° 45' "

Home to dinner @ 1-15 PM. 18° above zero  
21° above zero 2726 to end of day

Rod 2.40 S 85° 27' W 10° 20' up

$\bar{\pi}$  SW TS (24) LL Sta 5 beam S 76° 40' W

4" Birch in bank LL 35 bank 25' water

Rod near 3.10 - 8° 30' up 23° 45' LL

beam S 61° 52' W



74 Feb 18-1922

From Star SW/TL (24) run S 47° 11' W

cross 7/6 lin

600 to 750 "30" 2.

$\overline{A} @ 8630$       42 S 45 5 beam

N 23° 07' E Red Rock 3.70 - 6° 15' up

on bank road nears 2.6 ~ 6'E 9°35' up

1.75 ~ 22.50 W - 14.30' up

Hub 2343, 20 E. on 1/10 W.

N 50° 47' W Rd ~~776~~ 1.70 - 14' 15' up.

= Net 22" 6"

gor 25' back is 10 ft from bank  
30' to water

30' to water

From Sta SW T<sub>1</sub> 30° run 847.11' W

© SW TL Sta 32" is 130 ft. from hill

33 130

34+50 = 75

36 " 30 " "

37 " " 20

37 11 20

38 10

39 n n 20

60  
H. cat. 60

⊥ @ SW TL (42) run S59°34' W

45-40 ft 15 ft of hill

46 + 50 15 " " " " " "

48 5

1. Hi Bank

49 20 " " " " " "

Low

51 3 80 " " "

11 Low 11

52 " 110 "

Very L

54 80 " "

11 12

$\bar{A}$  @ 16 SW TL 54 runs N 71° 37' W 110 L v. n.

200.5.  $\Phi$  oak see page 66

Humid @ 6-10 - 7° above zero 4-20 pm

Bright new-hires all day



Feb 19-1922 Sunday

75

14° above @ 7-12 AM - snowed last night.  
Herald and I alone at Shack.

12° up @ 8-30 storm from the north

55° 31' W. Road read 3.10 - angle

60° 5' up LL 40' back

2° 8' 32" N. 10° 10' 00" back

on bank at 17° W

Road 2.10 - angle 10° up LL 40' back

SE LL 54.2 km N 37° 20' E

Road 2.7 - - up 7° 15' - LL 40' back

AE TL 11.6 km N 76° 39' E 600 ft

to 12. ~~to 12~~

LL up 2 km N 79° 05' W

Road 11.2 angle 4° 20' up

LL 40' back

back 10 km to 12° at 100 ft back

LL 40' back

~~to 12 2.5 km 3.6 km~~

~~to 54.0 E - road at 4° 10' 00" W~~

LL 50' back. Hill 2.9 angle

2° 45' up LL 50' back

11

from the SE TL 12 km

N 76° 39' E 600 ft to TL 18

@ 9:15 am to camp walk on snowshoes  
for Brainerd via Jenkins



Feb 20-1922  
Take 3-30 am night train  
Jenkins to Beamin.

Feb 21-22-23-24-25-1922  
all week in Beamin at office to  
storm. Harold alone at camp.  
Babcock with Sam Buchile.  
Michener at home in Pine River.

Feb 26-1922 Take early morning  
train to Jenkins - Sunday dinner  
with Wesley - PM. Wesley takes

Chas Kamberling and I to White  
fish Lake I go 8-miles across lake  
to camp ~~to~~ to west shore @ 4-15.  
at camp @ 7-05 dark find  
Babcock just arrived.

John W. Cunn



Feb 27-1921 Monday 18° below @ 7 am  
nw wind

SE Quad Whilfish L. Sec 6-137-27

T @ Sta 0.05 on TL Run N 76° 39' E

600 ft. TL Sta 6.

LL Sta 1. bears N 53° 31' W - Rod 3.10

angle 6° 45' at # 7' JP on bank

See Page 72.

TL Sta 2. N 37° 20' E Rod 2.70 angle

7° 15' up LL 40' bank = 8' JP on bank

16' cut bank.

# Sta - Rod on bank N 17° 0' W Rod 2.10 angle

10° up LL 40' bank

SE TL Sta 6 - run N 76° 39' E 600 ft.

Sta TL Sta 12.

T @ Sta 12 - LL Sta 2 N 79° 05' W Rod

4.20 angle 4° 20' up 16' cut bank

= 8' JP on bank LL 40' bank

+ Sta ? N 12° W 100 ft bank 10' H'

From TL Sta 12 - SE run N 76° 39' E

600 ft. Sta 18 - from which Sta 2

T @ Sta 12 LL Sta 3. N 54° 0' E

Rod 4' JP on bank LL 50' bank

Media 2.9 angle 2° 45' up

From TL Sta 12 run N 76° 39' E 600 ft.

Sta 18 - LL Sta 3. N 84° 43' W Rod 3.5

angle 3° 30' up LL 50' bank



SE Quad-

$\overline{K}$ @ Sta 18. Mouth of draw N  $67^{\circ}37'W$   
 Road 1.55. Blind around 150 long

$\overline{K}$ @ Sta 18. LL Sta 4 = N

Foot of big sloping hill N 60 ft  
 LL 100' back

From Sta 18 run

S  $78^{\circ}25'E$

Sta 21. is 100 ft from foot of big  
 hill LL 100 ft

Sta 24 is 100 ft bet

24 + 70 feet L & left

cross line 75 ft hill

27 is 65 ft bet

30 75-

$\overline{K}$  31 - 50 ft from hill  
 Run Run

S  $87^{\circ}22'E$

Sta 32 is 100 ft to ft from hill  
 34 25 ft

~~35~~ 35 + 70 - 50 ft from hill



$\overline{A} @ 35+70$  run N  $44^{\circ}44'E$   
 130 ft to 37. - 25 ft from bank  
 (30+50 almost on point 15' out)

$\overline{A} @ 37$  Hub on E & W  
 N  $0^{\circ}45'W$   
 run N  $44^{\circ}44'E$  300 ft to  
 Sta 40

(Sta 37 is 30 ft from shore -  
 " 39 " 60 " "  
 " 40 60 " "  
 40+75+50 ft from shore

$\overline{A} @$  Sta 40 Hub 3583.5 on E & W  
 & L. N  $76^{\circ}59'W$

LL Sta 4 = 2.00 ft Red point on  
 pt 15 ft from bank low shore beam  
 N  $34^{\circ}04'E$ . Rod Sta 1.80  
 angle  $3^{\circ}$  up. L = 25' 6" up

From 40 run N  $44^{\circ}44'E$   
 300 ft to 43 from which  
 LL Sta 4 = 62.53 ft W  
 station mark 1.20 - 6" up

Sta 41+50 to 42 is 15 ft from point  
 43 is 40 ft from shore



From Sta 43 run N  $33^{\circ}02'E$

@ 43' LL Sta 5 line N  $22^{\circ}10'E$

Stadia run = 3.45 angle  $0^{\circ}$  up

LL 5' is Red top 12" p. 2 lines

8 ft out in beach

LL back 25 to 100 ft any place  
drill sloping shore 40 ft back.

From Sta 43 run N  $33^{\circ}02'E$

600 ft to Sta 39.49

@ 39' LL 5 line S  $47^{\circ}08'W$   
stadia = 2.65 angle  $1^{\circ}$

44 + 50 is 90 ft from shore LL 40' back

46 00 " 70 " " " LL 40'

49 " 60 " " " LL 40' back

From Sta 49 run N  $33^{\circ}02'E$  300 ft

To Sta 52.

Sta 50 is 50 ft from shore

" 51 " 40 is 40 ft from shore

@ Sta 52' SW on Ho N  $14^{\circ}04'W$

243.5 ft. Roughly in line with beach

Red Top on 10" up N  $11^{\circ}25'W$  70.6

OK for lat line 25 ft from shore

52 is 35 ft from shore

run N  $41^{\circ}45'E$  500 ft

600 to Sta 57



Feb 27 Monday 1922

81

53 is 20 ft from shore  
54 + 25 to 54 + 75 on point  
55, plate

At 57, rod in shore road 1/2  
S 54° 53' W - Station 2.00  
S 71° 28' W - " 1.60  
West " 1.70  
N 76° 20' W " 1.25  
N 35° W - .65

Sta 57 is 35 from shore LL 50' high

From 57 run 80° 08' E  
290.80 ft to H 1/100 m sec p 68.  
@ Sta 58, land 10' high

shore line

N 76° 30' E Station 1.70  
N 80° E " 1.80  
East " 1.80  
S 79° 45' E " 2.10  
S 67° 33' E " 3.05

I walk

where to Jack.  
Bab.



Feb 28-1922. Tuesday

16° below @ 7-30 no wind bright  
sunshine

NW Quadrant - Trout Lake  
Shore Sec 1-137-28

Bez @ sta "0" on Town line S side  
Trout Lake N side of point @ sta  
run shore line West to narrow

Traverse line on ice about 300  
ft from shore - LL <sup>sta</sup> on bank

Harold Babcock and J.W. Curo

"0" pt on Range Line 170 ft so 17 ft  
N 1/4 corner. Red lay on 3" oak on low bank  
S 2° 14' E 196.5 Chained LL is on top  
of hill 100 ft back

NE LL Sta 1 =

T @ "0" Take NE Tr LL Sta 2  
S 80° 28' E Station used 5.8 level  
LL Sta 2 - 10" up on low shore  
LL 50' back

LL Sta 1 = 12" up on edge, LL 60' back  
on top of hill - corner - S 68° 54' E  
Station 4.05

Run N 84° 30' <sup>32</sup> E 710 to Sta 7 + 10 AP.



Book

(159)

83

NW Triangle

$\overline{A} @ 0^\circ \text{ run } S 84^\circ 32' W$

LL Sta 1 - NW - P

- 15' Prim stp 5 // back - LL 100 ft back

top of big hill  $S 63^\circ 23' W$

Mod 4.90

From 0" run  $S 84^\circ 32' W$  600 ft

TL Sta 6" from which LL Sta 1,

$S 44^\circ 48' E$  Sta 2.3

Pt-on shore  $S 8^\circ W$

Mod 2.0

PA  $S 35^\circ W$

Mod 2.7

$\overline{A} @ TL 6"$  Sta 2 LL bears  $S 44^\circ 33' W$

3.7 Mod 3.7

= 3" dead Birch LL 100 back

Note: Sta LL 1 is just 20 ft W

of Pt-when retrace appears to come from North

18

TL Sta 6" run  $S 84^\circ 32' W$  600 ft

to NW Sta 12. From which

LL Sta 2 bears  $S 58^\circ 25' E$

Sta 3.95

APT  $S 83^\circ E$

Mod ~~2.9~~ 3.0

PA  $S 5^\circ 30' W$

Mod 3.2



84

Feb 28-- Tues

$\pi$  @ ~~12~~ TL 12' LL 26 3' beam

S 36° 09' W

Slodier 4.4

5" N P L L 100 W book

may be at remene ?



March 1-1922. Wed

20° below @ 7-30 am. Bright sun  
no wind. L<sup>v</sup> camp @ 9-15 am  
Herald Gladia and Bob & S  
From Trouere Line Sta 12.  
run - S 48° 32' W 600 ft to  
S TL Sta 18 from which Lat Line  
Sta 3 bears S 48° 18' E. Slader  
Rod reads 4.4 near depression  
LL 100' back

Pt bears S 34° E  
Rod 3.65

Pt S 12° 30' E Rod 3.3  
20 ft from foot of hill. 25 ft from willow  
and water edge

Pt S 15° 15' W Rod 3.6  
25 ft from foot of hill near west end  
of slope 30 ft to water  
Lower bank from here west

S/L 4-5 33° 26' W. Rod 4.35  
= 4" Birch near low place in bank - near 9 ft  
10 ft foot low hill - 50 ft to water  
Pt LL 75' back  
Run 600 ft West to Sta 24

⌈ @ Sta 24 on Trouere  
LL Sta 4 bears S 44° 36' E  
Rod reads Slader 4.7



86

27

Mar 1-1922

K TL Sta 24

Pt S  $38^{\circ}$  E 84 ft dist 3.7 foot low hill  
 10 ft out and 75 ft row of dead trees  
 on low beach @ water edge L-75 ft back

Pt S  $15^{\circ}30'$  E ~~W~~ Rod 2.75  
 @ foot of low hill and 125 ft row of water  
 on row of dead trees

Pt S  $2^{\circ}15'$  W W-84 ft 2.15  
 foot of NW side Round Bluff  
 125 ft from line of dead trees at  
 water edge

From Round Bluff a sharp point  
 of sand ridge 5-7-10 ft high extends  
 NW viz

Pt edge of bluff S  $19^{\circ}30'$  W  
 Rod. 12.15  
 " 1.05 edge of sand

Pt edge of sand ridge S  $50^{\circ}30'$  W  
 Rod dist 2.10  
 Run S  $84^{\circ}32'$  W 300 ft to No 27

K @  $27^{\circ}$  @ 10" Elm in stump of 4"  
 @ NW corner of low point bears S  $59^{\circ}38'$  E  
 241.50 ft  
 Short 15" stp @ other corner of pt  
 S  $13^{\circ}33'$  W 59.2  
 Note: This line of sand ridge runs  
 @ about  $12^{\circ}$  W for about 300 ft then  
 turns westerly



73° 40' E

7  
T@ TL SW 27. Shading @ foot of  
round bluff. S 42° 30' E

2.9

pt foot of hill S 21° E. 10 ft from foot of hill  
Standing dirt 3.10  
LL 50' back

pt

LL SW 5 - S 3° 36' E Shd 4.0

4" oak foot of bank at mouth of runway  
Wood road side LL 30' back

From (2) run S 32° 26' W 600 ft to

(33) from which LL SW 5 -

N 73° 40' E Shd dirt 3.6

T@ TL. SW 33.

pt foot of hill N 87° E

Shd 3.0. lying 125 ft from road  
LL 30 ft back

pt foot of hill Shd 2.4

S 62° E 73 ft from water 30 ft LL back

pt S 15° E Shd 2.8 - 25 ft from water

LL 75 ft back Hill gets higher  
by N rd just west of way SW

S 16° S 2° 28' W - Shd dirt 3.89

5" N rd foot of hill .15 ft from water

LL 100' back

From TL NW 33 run S 32° 26' W 600 ft

N 39.

T@ 39° LL SW 6 bears N 67° 42' E

dirt 3.25



88

5/2/4

T @ TL 54.99

pt 572° E dist 1.9, fork hill.  
5' from water LL 75 bush

pt 518'30" E, dist 2.25  
just over at water LL 75 bush

sta ⑦ S 17° 12' 41" W 12" dip fork hill  
dist 4.6, — 25 to water LL 75 bush  
Run S 32° 26' W 600 ft 100'  
No 45

T @ 45° LL dist ⑦ beam N 78° 04' E  
S 15 2.50

pt 544° E 2.0 to fork hill 15  
to water LL 75 bush

pt 58° E Rod 3.2  
at water & fork hill LL 100 bush

sta ⑧ S 2° 07' W dist 4.25  
4' dip 20 to water 10' from hill LL 75 bush  
Run S 32° 26' W 600 to 51.

T @ 51. sta ⑧ N 75° E  
dist 3.1

pt on hill in ⑧ @ 147.14 47.4 E

S 50° 49' 57" E Rod 2.3

fork hill ⑧ 20 from water LL see pg 7

pt 512'30" E Rod 3.65 - fork hill  
150 from water LL 75 bush  
Low sand bush

LL sta ⑨ S 14° 14' W Rod 3.9  
4" dip pop at water & sand



From (51) on S 32° 20' W 600 ft.

(57) from which N 2° 9' Ques on  
60° 35' E 245

pt N 85° E 300 ft hill LL 75 ft  
E 100 ft water set sand

pt S 2° E 3.5 foot hill  
50 ft L. lake set sand

AS 70 ft 4.6 side of big bluff  
all low land from here 6 ft

Dinner @ 3-0 pm

NE Quadrangle SP 82  
Sec 6 - Trout Lake Shore

TL Sta - 7+10

LL Sta 1-S 56° 28' W Rod - 3.9  
Foot hill on shore

LL Sta 2-S 38° 35' W Rod 2.1 on shore  
LL 50' back.

pt S 12° E Rod 1.20 - White  
10 ft water LL 50' back

Sta 3 = 16' dry slab 15' from Lake  
ft. hill LL 100' back  
S 79° 11' E Rod 3.55

N 84° 32' E line and  
N 63° 43' E 490 ft 1.22 12. ✓

12.00  
7.10  
4.90



90 NE Tri

TL @ Sta ⑫ LL Sta ③ beam S  $16^{\circ}47'W$   
Rod 2.95

PTS  $36^{\circ}E$  SE Rod 2.6  
ft of hill & water - LL 100 bush

Sta ④ = 12" up ft of hill & water edge  
S  $70^{\circ}43'E$  Rod 3.5 LL 110 bush  
Run N  $63^{\circ}43'E$  600 to Sta ⑮

TL @ ⑮ Sta ④ beam S  $28^{\circ}26'W$   
Rod 4.3

PTS  $4^{\circ}30'E$  Rod 2.16 LL 110 bush  
PTS  $64^{\circ}30'E$  X Rod 2.9 LL 100 bush

Sta ⑤ = pine snag @ water's edge  
ft of hill S  $82^{\circ}48'E$  Rod 3.9  
LL 125 bush  
Run N  $63^{\circ}43'E$  600 to Sta ⑮ (24)

TL @ ⑮ LL Sta ⑤ beam S  $25^{\circ}03'W$   
Rod 3.45

PTS  $30^{\circ}E$  Rod 1.9 ft of hill & lake  
LL 125 bush

PTS  $70^{\circ}E$  Rod 2.8 LL 125 bush

Sta ⑥ = 24" dry pine stump 30' ft  
ft of hill & edge of water LL 125 bush  
N  $84^{\circ}54'E$  Rod 3.9  
Run N  $63^{\circ}43'E$  @ 288 = 2688. cum  
N 84° 54' E 570 ft so 1/4 on  
@ 600 = 30'

TL @ ③ LL Sta ⑥ beam S  $32^{\circ}34'W$   
Rod 2.70

PTS  $28^{\circ}30'E$  Rod 1.45

Sta ⑦ = 3" Dead Ash - water ft of hill  
LL 150 bush N  $89^{\circ}05'E$  Rod 2.85



NE Tri

91 84

run N 63° 43' E 600 15 st (36)

TK 36 LL 5th 2 Cues S 43° 36' W

Rod 3.6 - about 30 ft from ft 1 hole

LL 150 back

PT. S 49° E

Rod. 1.35

LL 100 back Lower shore - 20 ft from water.

Sta 8 = 5' dry elm sap

Rod 2.85 S 87° 52' E @ water L in sloping shore LL 125 back? May be reversed?

From 36 m

N 76° 50' E 600 20 st (42)

TK 42 5th 8 Cues S 62° 40' W

Rod. near 3.30 starting drink

I take this last reading as Harold & Bob left to start of forest for camp 15 minutes ago

Might see 10. in small hi. cold wet wood. L for camp 6-00 pm cold fingers

Sun goes @ 6-00 p.m. flat at camp 6-14 PM - 11° above zero



8292 NE Triangle

March 2-1922 Thursday

$\pi$  @ TL S 1/2 (42)

PT S 20° 20' W

Rod 2.10

foot of hill 60 from water LL 75' back

PT S 40° 45' E E Rod 1.80 - 75 ft to water  
LL 75' back

PT S 75° 40' E Rod 2.6 foot of hill  
75 from lake - LL 75' back

LL Sta (9) N 87° 03' E Rod 3.15

Run N 76° 50' E 600 ft to TL Sta (48)

$\pi$  @ (48) LL Sta (9) bears S 65° 51' W

Rod 2.95

at - 7" dead poplar at water's edge

PT S 23° 30' W

Rod 1.40

foot of hill 50 from water LL 50' back

PT S 70° 30' E Rod 2.50 foot of

hill on sec L in LL 50' back

9075 to water

Run N 76° 50' E 600 ft to Sta (54)

PT S 43° 24' W Rod 2.3

foot of hill 100 ft to water LL 50' back  
which would be across section

PT S 58° 15' E E Rod 2.3

foot of hill 100 from water LL 50' back

Sec cor S 11° 51' E Rod 2.25

angle 9° 30' up



2638.07  
 1318.03 see page 46  
 5180.50  
 5096.21 5252) 84.29  
 84.29 655  
 84 84.29  
 55 154 84.29  
 770  
 729  
 15  
 692.4  
 6  
 72  
 20  
 2

From 1/4 bet 5-6-137-27 on line  
 run N 89°10'E 500 right-weather line  
 line and run East  
 1016. Standard to same date 25 ft E  
 7 ft edge of island  
 4" oak north 3.90 //  
 check chain west Chain 1023.30

From 1/4 bet 5-6-137-27 chain  
 on line line South 1319.01  
 set 5 1/16 on line  
 Turn from N 0°55'10" W and run  
 S 89°10'W and run west 1.50 //  
 station set up on N E corner of island  
 spot on 3" Birch South 0.86 of a foot  
 No bottom of spot chain 150.10 //  
~~Transit~~  
 Transit telescope run East

1365 Lk. -1200 + 215 1415 //  
 set 60° of line on side hill  
 6" 7p north 1.20 spot on 3 side



Mar 2-1922

94 SAE Triangle

TL 814 (40) Telescope S 44° 44' W

St. S. today distance  
Taking pt of water in Island Lake

S 79° 20' W - 100 - Hill & water edge

S 52° 45' W Rod 2.4 Hill & water

S 44° 44' W 300 - Hill & marsh water

S 35° W Rod 3.25 marsh & water

S 23° 30' W 2.70 marsh & water

S 14° 30' W 2.25 " "

S 0° 30' E 1.46 " "

S 25° 20' E 1.60 " "

S 46° 58' E 2.50 old dump

S 33° 10' E 3.75 " "

marsh water

start for camp @ 1-20 P.M.  
Bright sun Light west wind  
not too cold

whitish boiled for dinner  
Michener and Baber snow shoes gear  
11 Blows for tomorrow's team to  
mount out.

Set camp for Brainerd Big snow  
shoes and whitish Lake & Jenkins  
to Camp 3-15 mi. Trout Lake narrow  
C 4-15 but far miles.

6-25 at Kumbulmy, B.C.  
at upper rocky call up Wesley

Mar 3-1922 Spent Harold & Michener T.P. Kinn  
Harold comes to Brainerd on train

Dug out 3 bush, plant pale. snow into water today



Mar 21-1922  
Platting

Figuring  
and Platting

95

S.E. Triangle also SW Triangle

See Page 77.-64-66-

Sta

00. N 76°39'E = 13°21' - 1800 FT

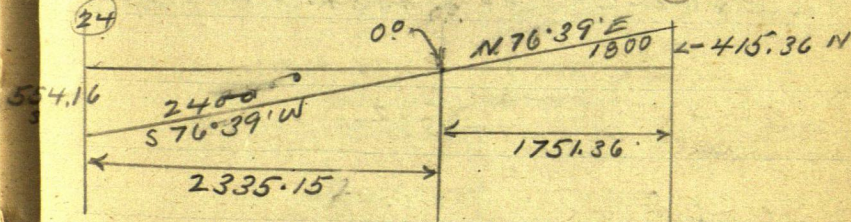
Sin 23090 X 1800 = 415.62 N

cos 97298 X 1800 = 1751.364 E

SW

(24)

(18) SE



S 76°39'W = 13°21' - 2400 ft

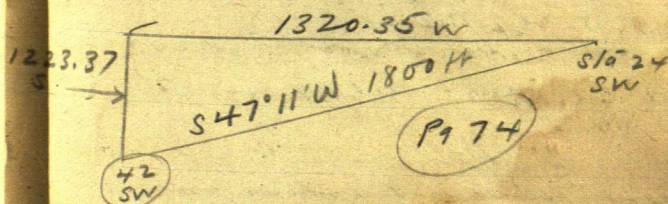
Sin 23090 X 2400 = 554.16 S

cos 97298 X 2400 = 2335.152 W

Sta 0.0. is @ 8354.50 S

1/4 is at @ 7916.69 S

437.8150.1/1x



47°11' = 42°49'

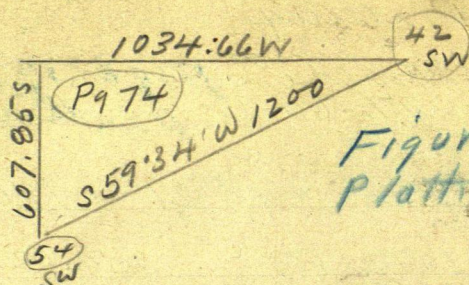
Sin 67965 X 1800 = 1223.370 S

cos 73353 X 1800 = 1320.354 W



96

March 21-1922

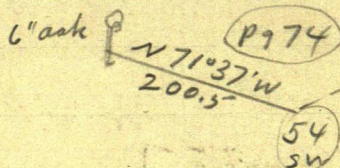


Figuring &amp; Plotting

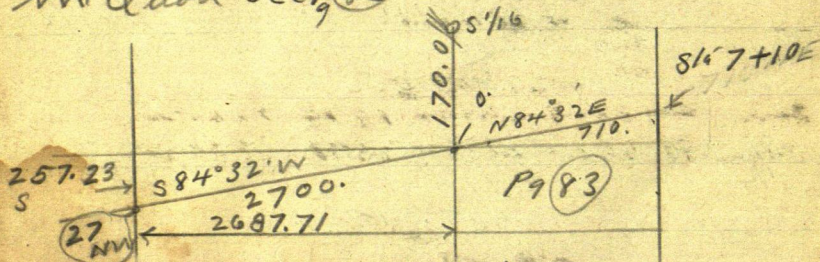
$$59^{\circ}34' = 30^{\circ}26' - 1200 \text{ ft}$$

$$\sin 50654 \times 1200 = 607.86 S$$

$$\cos 86222 \times 1200 = 1034.66 W$$



NW Quad Sec P982



$$84^{\circ}32' = 5^{\circ}28' - 2700 \text{ ft}$$

$$\sin 09527 \times 2700 = 257.229 S$$

$$\cos 99545 \times 2700 = 2687.715 W$$

$$5^{\circ}28'$$

$$\sin 09527 \times 710 =$$

$$\cos 99545 \times 710 =$$

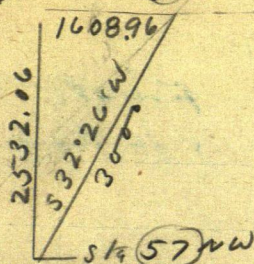


March 22-1922

97

P987

(27) NW

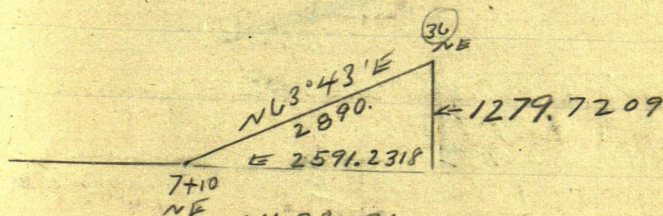


Figuring & Platting

S 32° 26' W

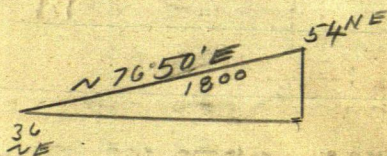
Sine  $53632 \times 3000 = 1608.96 W$

cos  $84402 \times 3000 = 2532.06 S$



Sine  $44281 \times 2890 = 1279.7209 N$

cos  $89662 \times 2890 = 2591.2318 E$



$N 76° 50' E - 1800 N = 13° 10'$

Sine  $22778 \times 1800 = 410.004$

cos  $97371 \times 1800 = 1752.678$



Parts 34 - 37 33

airny punt

Hi shaver out back

Smoking Machine

with mpls

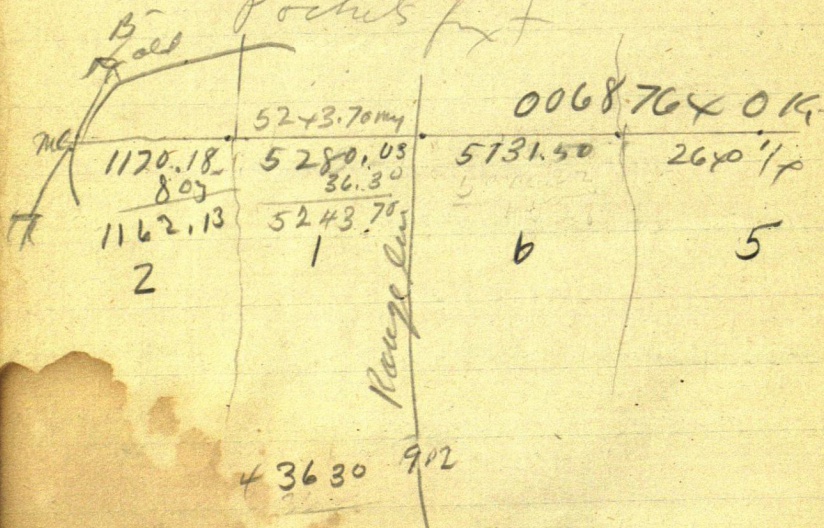
Call up Hall

Shells

BVD - 42

sex wool at Home

Pockets fix +





May 19-1922 Figuring  
and Platting. S<sup>E</sup> Triangle

$$\begin{array}{r} 45243701 \\ \hline 1310,925 \end{array}$$



1922

Time Mar

May

Sun

21 22 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

JWC

JPB

HJC

Cor

Sam S.

O Schulte

7  
5  
3  
10  
3  
4



Boord Mchm May 1922

JWC

IPB

HJC

S. Schullij

@ "

Bolichm

19	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0	-	4	4	4	4	00								
0	4	4	4	4	4	00								
0	4	4	4	4	4	00								
4	4	4	4	4	4	00								
4	4	4	4	4	4	00								
4	4	4	4	4	4	00								

1  
6  
5  
5  
6  
5  
25  
25



(Note.) Time & Board sheets are  
in Book. B. Pg 4+5.

Monday Dec 18-1922

I leave Ord @ 2.45 go to  
Pine River where I meet  
Bert Mitchner and we both  
go to camp. on Island Lake.  
arrive there @ 6:00 no fire  
and no water set up.

Tuesday Dec 19-1922

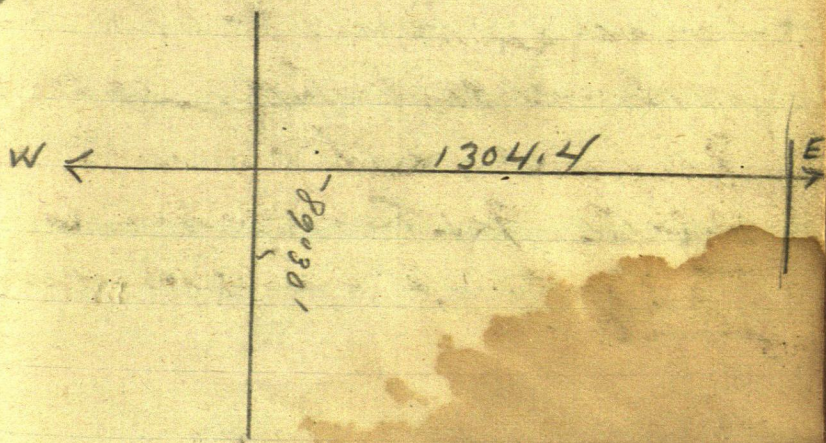
while Bert fixes up camp  
I figure out line to  
divide Gov't lot 1 sec 6  
T137-R27 in two equal  
parts.

Ivan Pabrook



Wednesday Dec. 20, 1922.

Best & I go to Road on  
North side of lot on south  
side of Plat of Run west.  
1304.4 ft. to E  $\frac{1}{6}$  line. then  
turn  $89^{\circ}30'$  R. and run  
line bet- Lots 1 & 2 sec 6. 137-  
27.



P.M.

Best goes to Pine River  
and will come back to  
morrow. I saw snakes.

Ivers Babcock



Thursday Dec. 21-1922  
Get breakfast and clean  
up camp and start to map  
up the South one half (1/2)  
of gov. Lot, 1. Sec 6 T137R27  
Dr. Camp all day making  
stakes.



Friday Dec 22-1922

Best comes back about - 8:10 AM

and Brings Ward

about at camp put in all day Laying out Mitchner's half of Gov. Lot 1. and staking Lake shore.

Lot one. 238 ft on Lake front - 300 along west end on North end. Thence along Lot line Lot no 2-3-4-5-6-7 all 100 ft. wide on Lake front, street 55 wide Lot-8-9-10-11-all 100 wide on Lake front. Lot-12=150.0 Lot-13-14=100 ft. and Lot-15=198 including street.

Set my hand cert. @ 3:10 P.M.



Saturday Dec 23-1922.

Bert works on fish-  
house, Ward & D stake.  
out Back of Lots.

Lots 1+2 = 199.1 ft. on Back

Lots 4-5-6-7 = 100 ft.

street 55 ft.

Lots 8-9-10-11 = 136.05 ft.

Lots 12-13-14 = 172.4 ft.

Lot 15 = 165 to Road Line

and 198 to ne Line

Through @ 3:20 P.M.

J. B. Babcock



107  
Book

159



108  
Dec. 22-1922 Cont'd.  
From Sec Line West to  
O. I. P. for Lot-line and N.  
and of lots. = 671.5 ft.

Continue W to 1304.4 ft.  
thence South. 1700 ft to  
Lake. cross Road + L.L. 600.  
ft. from lake.

Jan. 2, 1923

Stay @ Superior Hotel  
1.25 Breakfast & dinner  
@ Cronin's \$1.00 total  
\$2.25

Dear Bobbie.



Note: Part of A.M. on pg 111.

A.M.

Jan 3, 1923 - Wednesday  
Went to go rechain N+L  
in North Shore of White  
Lake. 100 - 200 - 300  
400 - 500 - 600 - 700 - 800  
900 - 1000 - 1100 - 1200 -  
1300 - 1400 - 1500 - 1510  
A.P. start at 0.0 = 1510 -  
100 - 200, 3, 4, 5, 6, 7, 8, 9, 10, 11  
12, 13, 14, 15, 16, 17, 18, 19, 20  
Start to tack 2000 - 50.  
Chain 1, 2, 3, 4, 500 + 30.2  
530.2 to Road West  
side of Gov Lot 1 sec 6.

510 + 2000 = 3570 + 530.2 =  
4040.2 ft

J. W. R. Boring



410  
P.M.  
Jan 3, 1923 Wednesday Cont'd  
Bert Ward + I go + Chain  
out back of lots 1, 2, 3, 4, 5, 6, 7,  
8, 9, 10, 11, 12, 13, 14, 15, 16. Road  
56 ft. 17, 18, 19, 20, 21, 22, 23  
24, 25, 26, 27, 28, 29 Road 40  
ft., 30-31-32, 33, 34, 35 all  
10 ft. 36 + 37, 146.5 ft  
end Lot 38, 146.0 ft.  
street 10 ft. Pine Lane.

Then Bert + I go to  
North Side Point to  
inter-sect Road + B, of  
Lots. while Ward splits  
wood.

Harv Babcock