

C.C.C.

13

K&E
COLLEGEFIELD BOOK
360°

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Field Notes

K & E

REG. U. S. PAT. OFF.

Camp 75-S Minoogna COLLEGE FIELD BOOK

Showing the quality of the Paper and Engraving in the Standard K & E Field Books described on one of the following pages.

Ray H. Hall

At the beginning and end of this book will be found general information relative to a few of the items of the extensive K & E line, which will be of interest to the Engineering Teacher and Student.

Book XIII

KEUFFEL & ESSER CO.

NEW YORK, 127 Fulton Street, General Office and Factories, HOBOKEN, N. J.
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1940

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This College Field Book is intended to familiarize student engineers with the high quality of the first grade Field Books listed in our General Catalogue.

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TABLES. Hall's Tables for Excavations and Embankments, and Keith's Tables for Highway and Railroad Engineers, are valuable features which are included in many of the K & E Engineers' Field Books.

The pages in this book are exactly like those in K & E Field Book No. 360. The K & E line includes other Field Books, Transit and Mining Transit Books, Level Books, Cross-Section Books, Earthworks Books and Topographical Books.

XIII.

Surveys & Corner References

Camp 75-S

Minocqua

Ray A. Hall

38-5 E

Oct. 10th 1940Hall Hansen
Halpman

O.M.C

 $\frac{24}{25}$

Orig. MC #5 on E Sec 24

W. side of point. Set new
Y.P. post + Iron Pipe*just W. of HC Hall's short stake
which he set in Oct '33 from
both bearings.

" " remain; SW one is stumps

N. " is down - marks plain

*
V.O.

Orig N 7° E 16.5

" S 25° W 13.6

H.C.'s Y.P. 10° N 62° E 5.95

" W.P. stp 18° S 1° E 31.75

P.M. with P.O. DeWalt + crew.

Identified Orig MC #24 W. shore
by stub of NW BT 4' high
marked plain. Other not
evident.

Set new spruce post + mark:

O'Var	}	Spruce 5" S 27° E 7.8
		" 4" S 39° W 23.

38-5

27

34From V.M. Main's post for NE x 34
Pace W.4 ch. shore Skunk L. at N. end
of hard land.Ten steps (+3kk) S of this point loc
Find what appears to be orig MC
#2. Y.P. stp with notch, agreeing
with loc. of birch stool.

Duro tamping peg. (rain).

4/3
9/10
Orig. Oct. 11th 1940 with Halfman, Hansen,
Checked well* point + oak post
found at SW cor Sec 3.

Iron as set agrees with stumps
of both oaks. No scribe marks but
run unmistakable taxings.

Var 0	Orig.	N 66 W	3.95'	
		"	S 19 E	17.8'
	New	Oak 8	N 46 W	13.55'
		Found	" 5	S 57 W

On medium high ground. Lake visible
to NE + SE only.

Fellow cut out line E V 2'

280 $\frac{1}{2}$ ' = 4.25 ch Find some ones

Oak MC post from which Oak 12"
from N 52 W 3 $\frac{1}{2}$ ' Drive an Iron
pipe about 6" SE of stake.

This MC is 6 or 7' N of Random.

" " does not agree with any
combination of stumps extant.

Could not find any MC on E shore

" " " " " "

Shishetogama L for \$3.

Show a $\frac{1}{4}$ post (old) in bog between
Hwy 70 + Sunday L.
Vaughans?

Found some Burrygo's bearings on
N + S shores Franklin L. but lack
notes, + posts are gone.

Found an old post on S shore
Topsy (or Adrian L.) for MC Smith of
N Ex 16. Looks like CD Vaughan's.

Both his bearings are dead

#27 0	"	"	Sp. 5	S 5 E	12.2'
	"	"	" 4	S 45 W	11.5'

New - N.P. 5" S 7° E 48.6'

High water has killed spruce bordering lake.

Lake Survey

Bench Marks.

Oct. 15th 1940 Remove Williamson
BM from Clear Lake (Brok 12 p 36)
+ set same on N. shore of Mercer L.
on Lot 3 Sec. 13-39-25 E being
on the grounds of the old
Mercer Lake Resort

3' E of NTS fence
260 ± E of 4th Sec. 13
19' W of shore.

Oak 5 (not marked) N27W 10.25
" 11 " " " N24E 25.

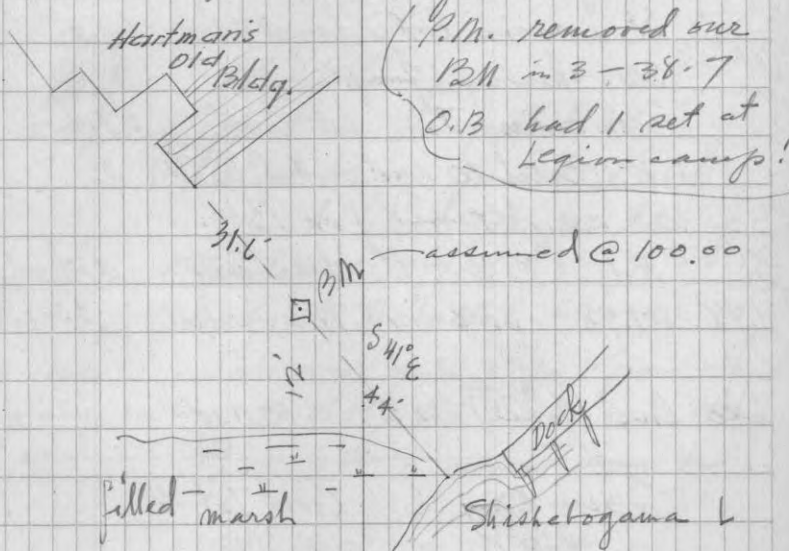
SW of new cottage Nly 40'

Assumed elev. 100.00 B.M.

BS	H.I.	F.S.	Elev. Lake	by	Method.
2.63	102.63	7.29	95.34	R.H. Hall	Abney

Lake Survey.
Shishobogama L.

Oct 22nd 1940 Fair 50°
Hall Hansen, Conforti
Set BM at Hartman's Cottages
Lot 2 Sec 10 - 39 - 5 E
On line of S face of Sly bldg. at lake
3 + 31.6' from "



BS	H.I.	F.S.	Elev. Lake	by	Method
7.65	101.65	7.5	94.15	Hall	Abney

The MC has been in dispute &
recently surveyed but surveyor
put in blind corners?

Lake Survey

Upper Kaukesha L.

Oct. 23rd 1940 fair 45°
 Set BM at Camp Miami
 (by permission of) Ed. Burrend, Prop.
 in Gort. Lot 5 Sec 9-38-6

8' from water

SE x main lodge br N21°W 62.7

SW x chimney (fireplace)
 on cedar cottage br East 57.4

W. Birch 10 (not marked) S88°W 3.

100.00 Assumed for BM.

BS	H.I	F.S	Elev. lake	by Method
1.98	101.98	6.08	95.90	Hall Stoney

Sec line (fence) br E 10 rods or more

Sunday L. Gort Lot 4

Sec 3-39-5

at J. Pierce's Cottages.

BM - assumed, 100.00 set 14' from water

S. cor. main Bldg br N4°W 120.3'

Oak 8' (not marked) N45°W 10.1

" 14 " " S45°E 4.2

BS	H.I	F.S	Elev. lake	by Method
2.67	102.67	7.29	95.38	Hall Stoney

- See page 29 -

Lake Survey (38-6)

Oct. 21st 10 PM

SW cor Sec. 3 as defined by cement
 monument in fence cor SWW + old
 survey post leading on fence.

Vaughan's? stump 30" North 90.9'
 Chain north three brush var. 2° E ±
 0.0 monument

90.9' BT stump

249' offset W to point 33' E of

Iron Pipe found + with
 which other pipes line up 3 1/2'

Continue Nly
 + about parallel "

1162' To an Iron Pipe from which
 a 20" W.P. br S40°W ± 4.2'
 (from I.P. a cement man br
 N10°W 5.7')

This pipe seems to be
 Vaughan's south M.C.

" offset E 50' + continue
 1229' our temporary BM on root
 of Pine br W 16' ±

1385' ^{opposite} cement mon. on shore

38-6
W S 1/2 3 continued

1616 opposite logical point for
North MC by 2 bearings.

2718 To an iron pipe found
in edge of swamp, agreeing
with remains of a Tam S29E 7'
- Old spruce BT stub
to N20E 11'

A cement monument on S 1/4 14.8'
The wire fence W & S agrees with I.P.
and there are 2 old posts
alongside the pipe

- 2 for wandering near beyond 130.0

2716
1358 = mid pt.

27-39-5

Search for E 1/4 + SE cor.
Lines run last March for trespass.
26" snow. (Book 12 p. 5)

Oct. 24th 1940 fair 30° up. (Hall
Hansen, Conforth)

Original
(E 1/4) Find Orig. NE bug down + cut in two
about 8' up. Turned over by Wallace
no doubt. Boxing good. But no
marks visible until I chop in +
expose (faint) B.T.
Fail to identify the other.
Dig in moos + find base of old
post in agreement with NE bug.

Drive * I.P. just NW of old post
" Tam. post W " "

			ch
New *	Tam 4"	N63W	.19
V. 0°	Tam 4"	S55E	.20

Drive marked Tam. stake in BT atp.

Westly from I.P. V 2°
1.05 1/2 ch. To our random .27 N 7 40.00
as near as can be
lined up.

ii @ 39.73 S. fell 1.05 1/2 W. 9 1/4 1° 32'

27-39-5

continued

N.B. (see Book 12, p. 5)

E $\frac{1}{4}$ as located now results in increase

of 0°-14' of angle at NE x 27

and 0°-09' " at E $\frac{1}{4}$ H

= 3.6' too far W at N. end slash

4.8' " " " " S " "

Just fail to find NE x

Oct 25th 1940 17-39-7 P.M.Origi
W $\frac{1}{4}$

Find B.F. Davis post in bog
agreeing within 1ft with
Origi of SE bog (a stub 15" hi
at edge of marsh - marks OK).
Other not evident.

Drive short *Iron Pipe SE of old post
+ mark:

*	N. Pine 9"	S 72° E	78.65	
var 0'	W. Pine 12	S 20° E	84.30'	
	Origi	S 37° E		.85

* Set new cedar post alongside.

Bench Mark

Lower Kauteshin L.

Oct. 30th 1940

On shore of Govt. Lot 7

(SW SW Sec 3-38-6 E)

98.7' S. of Concrete man on shore
of for MC $\frac{1}{8}$ Sec line (4th Lot 7)

23' W of E Town Road

12' E of shore

134.5' of N19°E from D.P. found
(assumed to be South MC
on Sec. line.)

Set WCD Bench Mark monument.
Assumed elev. of 100.00 for "

BS	HI	F.S.	Elev. Lake	By Method
3.15	103.15	6.59	96.56	R. Hall - Abney
		2.15	101.00	" BM on pine

B 11 Page 36

- 4.23
96.77 in 2/14/40

Game Refuge

1-38-6

Nov. 18th 1940

Assume road jet as SE cor Sec 1.

Thence W. along road

900' ± enter brush

1309' To S.P. in fence cor.

Thence N $\frac{1}{2}$ on eye picket lineVar 2 $\frac{1}{2}$ ° E

fall about 9' W of fence cor.

SE x Sec 1 N $\frac{1}{2}$ Var 1 $\frac{1}{2}$ ° E

1320 set post for sign

2640 find old $\frac{1}{4}$

Run Ely from NW x SE SE

fall about 3' N of sign

Post - this has same

Nov 19th & 20th 40

Post Legion Refuge, leaving out:

SW SW 18-38-7

NE NE 20

SW SE 17

Post NW $\frac{1}{2}$ line thru Camp 21 Lake+ N to the S 2 L road Thence NW on
W side do to Legion Rd.

In Timber Stand Imp.

Tues. Dec. 3rd '40 Fair -15°

Hall, Hansen, Glaser + Conforti

N $\frac{1}{2}$ on random from VMK's W $\frac{1}{4}$ (Assume this is Origin $\frac{1}{4}$)

Var 5° E

(being about same corrects as
Main's line S of $\frac{1}{4}$)

Run by eye pickets.

100' leave marsh SW + E

148 picket 41

171 fall 4' E of blazed stub

322 picket 115

415 enter spruce + cedar swamp ^{NE}

435- picket 155

1361.1 fall $\frac{9}{10}$ ' E of old spot foundDec 4th '40 same crewContinue to NW x + fall about
10' W. of our WCD monument

Var plane at cor. 6° 30' E

Measurement resumed:

628 $\frac{1}{2}$	picket	2.24
700	"	2.49
802.6	"	2.86
931.3	"	3.32
1056.7	"	3.77
1167.1	"	4.16
1245.	"	4.44
1400	leave away E+D	
1464	picket	5.22
1585.1	"	5.65
1703.4	"	6.07
1934	to Cedar Falls Rd.	
1962.7	picket opposite sign	
2028.9	" + enter marsh	7.22
2202	"	7.85
2400	" on pt of land	8.55
2540	lv. marsh NW	
2626.4	picket	9.35
2685	enter marsh again E+D	
2721.6	fall 9.7' W of Mon	
	for Engl cor. 22-23-26-27	
	.00356 = 0 $\frac{1}{124}$	
1360.8	= $\frac{1}{2}$ dist	
1361.1	post found	
.3	" is $\frac{3}{10}$ N + 5.75' W	

→ See page 21 ←

for Sanding
Thurs. Dec. 12th 1940 Snowing +24°
Plan to connect Origl MC #51
(W. shore) with DS Burnett's TXI MC on
E. shore. These were there in July '28
when HC Hall + Son checked
& as run by Burnett (as far W. as #51)
Did not reference " post, nor #51

Find TXI post on W. shore but
can not be certain it stands OK
since clean up work around new
cottage has changed picture.

locate TXI E. MC as near as
possible by following our random
+ judging Son's last hob. down.
thence $\pm 80^\circ$ W to N. 49 $\frac{1}{2}$ '

+ set temporary stake in edge of lake
for DS Burnett MC

A marked W. Pin 13 for
(MC) N66 E 47'
MC th. why on line toward #51
E MC called 25 N + 25 W (150' grid)
MC N 3 stations @ 27 W
29 W
tho. about 4° W

ice 6"

17

Booth L. continued

Jan'y 8th '41

24 N	26 W	comes at shore		
22	28	shore	E 16'	S 18'
21	29	"	E 20'	S 21'
20	30	"	E 23'	S 27'
28 N	40 W		W 34'	S 41'

Dec 5th 9th 10th other activities.
 18th 20th 30th " "

Booth L. Jan'y 7th '41

7 N	34 W	shore	E 4'	20° slope bank
5	35	"	S 150'	biggy
6	35	"	W 113'	
10	32	"	E 27'	20° slope
"	"	NW x boat house roof S. 61.7		
10	40	shore	W 120'	tan. bog.
15	41	"	W 70'	elder "
			30'	S of landing.

(150)

Swamp Ranger L.

18

10-11-14-15 38-4

for sounding.

Friday Dec. 13 - 1940 fair +7° sup
Hall, glasses, Hansenplan grid from air photo + initials
" from W 48' \$14
" " called on N 10 WN 47' from " " Var 2 1/4°
eye jackets -

62.	enter spruce swamp		
357'	to do	NE + SW	
1742'	intersect	Swamp Ranger L.	
1800	stake on ice	for 12" 10 W	
.	"	"	13 10
			14 10
			15 10
			16 - 10

(No corners known on the lake)

Ice about 6" thick
slush + snow on that
Creek unsafe.

Squaw L. 39-46.

Plan 200' grid initiated
from EtW $\frac{1}{4}$ line Sec. 9

Run by CD Vaughan 1924?

" of HC Hall 1930

Orig $\frac{1}{4}$ S. on each end.

East MC called 40 N 15 W

Jan 9th '41 overcast $+15^{\circ}$

Hall, Ziefarske & Kohlman

Did not have our notes (1930) but
picked up true line & ran west
across lake from 40-15 (E. shore)40" — 23" + 124' fell 3' S. of E. end of
fence.
we at run.

N+S on 21 + 20

47 - 20' + 68' N to shore.

Jan 13th35" — 16" NE extremity of Yalla Venice
hammerhead bo. N 67' + 10 20'

34" line strikes cottage about 18 W

Jan 22nd / 41

53 N — 6 W comes at shore

Thence west $25\frac{1}{2}'$ + South $108\frac{1}{2}'$ to
orig. MC #9 as near as can
be determined

Squaw L.

24 N 27 W Thence west 103' +
South 49.7' to orig MC between
Secs. 16 + 17 (HC Hall 1931)27 N 29 W Thence North 66' +
west 76.7' to MC between 8 + 17
(HC Hall 1931)

(Bench Bt No. N 26° W 29.4')

36" — 25" Thence west 158.7' Thence
North 49' to location of
orig. MC #25 (between Secs 8 + 9)
as near as we can get it
from one bearing. (CDV)

for T.S.I.
 Jan'y 14th '41 +18°

Hall, Zeiferakce + Kohlman
 Continue S on $\frac{1}{8}$ line in NW $\frac{1}{4}$

[Had bushed out true 4-NW NW
 Jan'y 30th + run picket line S
 from W $\frac{1}{8}$ 44 on 4° E var.

0.0 W $\frac{1}{8}$ 44

406.4' a picket

1173. staff

1361 set temp'y back pin post
 var here 4 $\frac{3}{4}$ ° E.

Thence E on var 2° E. Thru
 the reproduction (wry pin)

Sometimes called L. Raymond.
 150' grid.

Jan'y 23rd 1941 Overcast +10°

Hall, Kohlman, Cruse + Darlinger

Orig. MC #51 between 8 + 17

$\frac{12}{59}$

called 28 N 2W

Thence west on extension of true line
 from NE cor 17.

28 " 11 W Thence west to shore

W. on 27 to 15

414'

S on 15 to 21

W. on " etc.

Jan'y 27th '41

15 " 34 W Thence South 145°

+ west 81 $\frac{1}{2}$ ' to cement MC
 about rec'd dist N of $\frac{1}{4}$ 44 17.

see book 12 Page 57

Bear Lake 155' grid

mostly in Sec 24 - 38 - 5 E

Since Orig MC #5 (E. shore of 24) see
page 1 scales 600' N of S. extremity
+ " 3600' W of E.

Will use said MC #5 as 4^N - 24^W

Jan'y 24th 41 Overcast +5°

Hall, Kohlman, Crass + Darlington
4^N - 24^W Thence W by on line with

Orig. MC #6 to 4 - 28

North to 10 - 25

East to 10 - 12

@ 10^N - 23^W NW extremity of pt.
bys S 20° E 80' ±

Jan'y 28th 41

4^N - 7^W Thence west 92' +
south 168' to old MC post
found on N + S cut out line
(range line?)

Jan'y 29th Fair +14°

Hall, Kohlman, Crass, O'Connor ^{Miller}

Continue staking into N. side

— Could not find range line N of lake.

Continued from last winter. 200' grid

Sec (11/41)

Re-construct 33" line from MS ¹⁸ 19

33-47 S. To 16-47 + lay out

1/30/41 unfinished tip.

Jan'y 31st 41 Fair 20°

Hall, Crace, Kohlman, Miller, O'Connor.

E on 34" to 34-39

N on 39" to shore (50"-39" + 71' Hem. Timber
bank abrupt 8' hi. level.

@ 49-39 North 71' + west
299' to orig MC bet. 17 + 18

E on 34 to 27 W. N on 27 to 36

2/3/41 N on 27 to 47

W on 47 to 32

N " to 50-32

49-32 west to 49-40

49-39 East to 49-32 over run by
(49-33 to " only 192.5) 7 1/2'

Computed 49-33-34-35-36 W 7 1/2'
+ left error for bay.

Franklin I. 150' grid. 16-39-5

Feb. 4th locate C & Vaughan's MC's
on E 16 by his record distances from B to

South MC N on line $\vee 3^{\circ} 6' \pm$

@ 75' set 16 N - 5 W.

18 5 + 66' N = MC
with shore.

17-5 W @ 90° etc

Feb 17th 41 + 9° windy.

18-11 W to 18-15

" - N to 23-15 + 74' to
shore 42' W of End N 4.

19-15 W to 19-19 Th. N 47' to shore

rolling. 20' slope

people 6
oak 4 density 6
birch 3

75-
300
41"
197.6 cov

19 — 38 — 5 —

Kennedy's

Feb 5th '41 with Crass, Kehlman, O'Connor + Miller

Look over dead cedar on SE NB

In poor condition + scattered, bog wet
creek to pen.Measure S on old blazed sec line
var 3° E ±
from a cedar with old blaze + about
on E+W cutting line.

0.0	said	cedar
235'	creek	W
670'	"	E
1308'	orig 1/4	bet 19+20

— can jack this up
+ extend it north.

Sunday Lake
Secs. 3 + 10 39-5
150' grid.

Feb. 10th 1941 Overcast +15°
with Crace, Miller, O'Connor
Old $\frac{1}{4}$ S. to found post at S. edge $\nabla 70$
in bog. Called 13N - 3W

Thence west on cut out line found
800' right Var $1\frac{1}{2}^{\circ}$ E \pm
West MC - apparently falling 12° N.

923 intersect lake

1000 Tally on ice (6.46)

1400 " " (9.04)

2276' fell 14.7' N of MC in
west end bog 280' E going $\frac{4}{9}$ $\frac{1}{10}$
page 3

Connect 1000 - 1400 - 2000

" " + 50 = 13N - 10W (shore 110° E)

West to 13-14

S to 7-14

17N 8W Thence East 53.5'

+ South 9.3' To our

cement BM (Page 7)

Fuller Lake $\frac{3}{10}$ 39-4

150' grid

Feb. 21st 1941 Overcast 7°
Hall, Crace, Miller, O'Connor

Attempted to identify sec line across
lake by US meander notes - found no
pts.

Feb 24th '41 Same party - Snow 20°
Since NW cor Sec 10 is in road +
" distances to both bngs are not in
agreement with US notes and as I have
not HC Halls nor C.D. Vaughans notes
I use point record dist from NW tree (Hem)
+ in random line \pm west.

{ NW tree N 26 W (PC) 23.1k = 15.2'
{ SE rtp S 37 E " 28.6'

Ely from corner Var $1\frac{1}{2}^{\circ}$ E \pm eye pickets
did not cut trees of any size

0.0 our peg in W side of town road
330 \pm to 470' bog hole

550' fall 3.3' N of old blazed Hem.
now a stub.

635' fall 6' N of more recent blaze 170 Hem.

703' fall 1.5' N " 7" Hem. blazed 10yrs \pm

962' 1 $\frac{1}{2}$ " maple 1" N of line - converted

1420' fall 11' N of recent blaze on
w Pine stub.

1445' shore (N 16 E 2ch) + (S 50 W 2ch)

Fuller L.

10-39-4 E.

Since no evidence of Tamarac shows above the snow for west MC and the line location (by old Hages) is definite, I accept the pine stub # 11 S of 1420' for purposes of this survey. Our picket line would cut into timber visible (on SE $\frac{1}{4}$ Sec 3).

On E. shore was old dead 10" Tam with good cruiser mark (faced west)

Stake out 150' grid from

* Pine stub called 17N - 6W

Sighting Ely to Tamarac cruises tree var. about 1° E

set out skeleton north to 23-6

9N - 5W south to shore 43'

Buckskin Lake

200' grid

mostly in 36 - 40 - 4
+ 1 39 - 4

Feb. 26th '41 Hall, Crase, Miller, O'Conor
Found Indian Boundary Survey mon. for
East Meander Corner Top. line

St. P. Pin 13" N27W 11 ft.

Oak 4" S45E 9.5'

St. P. 16" Sly

Random from E is north 29 steps

Thence W by toward cut out random visible
4540' OK with 11515 MC monument

Front tipped partly over.

= 68.79 ch

115 57.50 orig record (say 3.75 W. lo. lake.)
13.75 more like it

Using East MC at 27N - 2W

Sta 4200 = 27 23

Feb. 27th '41 S. on 7 to 21 - 7

S on 5 to 13 - 5

+ search for MC $\frac{1}{12}$ no luck

S. on 12^W + 14^W to 13^N

check dep. at 13^N + find 401.8'

W. on 12^N to 12 - 17

W on 13^N

Buckskin L.

13th line west to shore ^{13-27th m} cut tail margin

13-26 S to 10-26

12th-26th west 273' + South 72.2' to
old MC post found.

No signs of US bearings but
find an odd Tum. blaze
west from here $\sqrt{5}$ W.

S on 22nd to 7-22 + 7-21

Searched S shore for MC #12
as yet have found nothing.
Should be about at

72' S. of 4th - 21st

Sec. 26-39-6 E. ✓ 34

East $\frac{1}{4}$ line (after Dorr)

- from B 12 P 29

March 4th 1941 Fair +15°
with Crace, Miller + O'Connor

Measure W₇ (S88°-52'00"±) on
corrected picket line from Dorr's
Center Sec. " " projected by eye

0. Dorr Center

54' cuts thick W₇ Pine

363 old grade SE reproduction

528' Φ new Hwy 51

653 Top of " fill

849 15" Red Oak ± on line

1197.8 Φ 7" poplar just N of line

1647' to Bolger Lake N+S

1700 pickets on ice

2000

2300

2600

2688

(Dorr record 2673)

+15

2688

" set staff on ice +
meas S (var $1\frac{3}{4}$ ° west)

342.1'

26-39-6 E.
continued

342.1 To what seems to be
Doris location of orig.
MC. S. Shore Bolger L.
(Taking course of west BT as BT.
Doris found it - MC comes
under sliding bank - found
only old auto tire.
Thence N by thru sta 2688

1402. Doris dist. (adjusted)
falls 30' E of end of spit
which is only place corner
could be if at Doris dist.
- Several pine stumps remain
on the point but none
check nor have marks
apparent.

Assume our alignment from C
could easily be off the difference
between 345.1 + 342.1 +
- that Doris Center as found is
actually " "

for grid use line as run + figure

South MC is 3 N 7 W.

∴ 1000' N + 50' = 10 N 7 W.

Make bal. of grid at 90° to this line.
(removed our E+W ¼ line stakes).

$V 1 \frac{3}{4} W$

Callear Lake
in Sec 35-40-14 E.
+ 2+3 39-4
150' grid.

March 5th 1941 partly fair +10°
with Craze, O'Connor & Miller
Finch + flag Marshall J. Hall's
180°W Indian Boundary cement
monument at Orig West MC Topline
agreeing with stump of the SW Tam.
marks all very plain - other not evident

At the East MC the stump of orig W Pine
has marks OK but corner location
falls about 12' out in lake.

We go E in line with West MC +
find the new cement mark for MC
Decide to use said WC MC monument
as 33 N - 4 W. The W on line
was about 3° E.

@ 28½' loc. orig. MC in lake.

@ 150' set 33-6

300' " 33-6
450' " 33-7 + 64½' to West MC

S. on 6 W to 29-6 W on 26 N to 9 W.

S on 9 W to 25 N. W on 25 N to 25-14

∴ 450' + 64½' - 28½' = 486' = 7364 ch MCs.
115 Record = $\frac{5.00}{2.364 \text{ rump.}}$
over water

Bolger L.

1402. spot w 30'
from which of Bsp
28 N 10 W 8 W 66'

150' grid

March 6th '41 Fair 0°
Same party.

13ⁿ - 9^w Thence E 102° 5'

South 119' to Orig. MC

E. shore (between secs. 2 + 11)

as near as may be from

1 green W.P. 20" N17E 7.2'

" " " " 20" S78E 8.6'

These appear to be the original
post found sets 2' W. of the pine tree.

Bearings are 10.3' apart S37° E

Facing face S17W + N 83W.

(old cruiser mark on SE (stub) faces ^{south})

1ⁿ - 15 W Thence south 106' to shore

1 - 15 Thence North 68' +

West 338' to a MC post

found for line of 10 + 11

This post has 24" W.P. set
pointed for bearing.

Shore contours here does not fit
meander notes.

Did not see any sig bearings.

(150 grid)

March 7th '41 Fair 0°
Crace, Miller, O'Connor

Orig. West MC between 7 + 18

Identified by stumps of both
original pine bearings. I set temporary
stake, cedar, by record dist from
the stumps. N73E + S80W
Deep snow - could not see

any post but stumps had

been hacked, presumably
by D.S. Burnett when he laid out

of Bo-De-Las in 1924?

Now - Soft Maple 10 S79E 9.75'

East MC between 7 + 18 identified
by D.S. Burnett post + iron pipe
agreeing with bearings.

Sight to West MC Var 2' W ±
Measure west on line.

0 = E.M.C.

+50' set 8N - 3W

+ Stake skeleton grid covering
E 1/2 of lake

Doherty Lake $35-39.7 E$
 (150' grid) $2-38-7 E$

East MC on Top line scales

1600' N = 12 N

100' W 2 W

West MC scales 2700' W = 12 N 18 W

March 10th '41 Overcast 25°

Crace, Miller, O'Connor

Informed by Mr Earle that
 two "Concrete monuments

set in '32 (by HC Hall from
 orig bearings) are now under
 water. did not have

any notes so secured ours
 via State telephone + 45 from
 L. Tom Ranger Sta.

Orig west MC found by dist from
 steps of both origls & by ref. rock:

N67W 34'

Now about 1" under ice

Orig E. MC found - snow from
 dist. from both orig
 no new bungs.

Head for west MC

Use $100' W$ of E MC as $12 N$ $3 W$
 $+150$ 12 4

Gairth Lake

Secs. 21-28-29 38-6 E

150' grid

Since 3 small lakes N of Gairth are
 to be rounded.

(Bass, Schwartz + Jug-out Lakes)

we allow for inclusion on
 same grid.

Will use Orig MC post on

#140 south shore Sect 29 + 28 as 7 N-30 W

— See Book II page 10

March 13th 1941 Fair 8° up
 Crace, Miller, O'Connor.

Identify North MC (#41) bet 28 + 29
 by spike marks inside green Norway
 of Assume this to be sub tree
 which agrees somewhat with
 large W.P. burned off & lying down

Set temporary picket from which

Orig to S54W 21.1'

" " N63E 40.3'

The sec cor + MC #42 are not
 very clear with this amt of snow.

Oringl MC #40 (called 7N - 30W) ^{79.64} ^{15 ch.} ^{990'}

Thence N. toward #41

Var 0°

First 300' (to 9-30) cut-tails + other
veg growth.

@ 11N 30W run perpendicular E.

13

30

"

"

14N 30W Thence N 40.3'

fall about 10" W of #41

$$\therefore 7 \times 150 = \frac{10.50}{40.3}$$

1090.3' between MCs
990' U.S. Record.

March 14th 41

26 N 25 W on Garth thence North

@ 150 N. shore "

@ 382 over neck to point (Bass L.)

125' ± NW of S. end

@ 450' set 29-25 on Bass L.

34-25 thence E @ 90°

@ 141' to Bass L about 80' N
of angle in shore

@ 441 internet Schwartz L. about
125' N of angle in shore
(-then gap in spruce fringe)

@ 150 set 34 N — 22 W

34-18 on Schwartz L. (th. E to shore 35')

" " BS on 33 — 19 + run
N 45° E. Toward August L.

@ 636.4' set 37 N — 15 W on W.
shore August L.

Thence continue NE 212.13' to 38-14

set 37-14

38-15

39-14

39-15

40-14

40-15

Use 141.42 on diag. as hyp of rt Δ
with base + alt 100'

Yawkey Lake (150' interval)

15 + 22 - 38 - 6 E

March 18th 1941 Fair +10°

Hall, Grace, Miller, O'Connor

Searched for Orig MCs on
line of Secs 15 + 22 but without
Success. Wire fence from west
intersects lake at what may
be Orig MC?

End by prolonging line of fence
E. (Per normal).

50' W. of E. shore take S N - 18 W

8" — 28 W + 132' W = E end

of fence at lake shore.

$$\therefore 10 \times 150 = 1500$$

$$\frac{1500}{132} = 25.79 \text{ ch.}$$

HS record.

20.26 ch.

This indicates that fence line
prolonged may be N. of orig
line.

21" - 15" Thence N 45° E

@ 71' to lake 30' W of 9" 21"

22 - 14 on bog. Thence North

Lee Lake

in 15 - 38 - 6 E.

March 19th 41 Same crew
Continue North from 22 - 14 over land.

(BS on 19 - 14) on lake

@ 260' W. bog

@ 400

ridge old grade to S₈₂ E

@ 600 to S. shore Lee L. SE

(+ NW to Pt 90' ±)

" = Sta 26 N - 14 W

+ Stake bal. of lake (150' grid).

39-7

March 21st '41Found Haren's "Bike a loce" road
snow bound.Reached lake by Paul Frederick
road in SW NE 26.Identified JH Vaughan's MC on
(Sec. 26) N+S $\frac{1}{4}$ line (N. shore) by his
two trees. Set Norway stake
which comes about 25' W of line
as marked by a new oak stake
which someone has set right in
front of Dave's GP.Dave's MC $\frac{1}{4}$ line S. shore
Both his bearings plain.

Use north MC as 28 N - 22 W

Orient on south MC. Use $1\frac{1}{2}^{\circ}$ E \pm March 24th '41 Same party.
extend grid W. + search for any
MC bet 26+27 also Dore's $\frac{1}{4}$ 26-27
Unable to identify either on account
of the snow.12 N 46 W Thence north 55'
" west 55.7' to
HC Hall's MC. on E+W $\frac{1}{4}$ line $SE \frac{1}{4}$ 273 N — 41 W Thence north 41 $\frac{1}{2}$ ' +
west 100' to MC $\frac{1}{4}$ 27

HC Hall re-located this by Dore's notes '93.

JH Vaughan's N+S $\frac{1}{4}$ line in 26 is not
entirely satisfactory as he ran it in
2 parts. Possibly the surveyor
who set oak stake (N shore) ran
entire line. ?

Scotchman Lake

23-39-5

100' grid (diag. 141.42')

March 25th 1941 Fair 20°
with Grace, Miller & O'Connell
West from E 1/4 on picket line

var 1° E ±

along spotted trees.

1690' to shore of Scotchman L

+ 50'

1740 = 13 N 2 W

Baas Lake

(100' grid)

24-39-5

March 25th '41 PM

North from cement monument at Orig
SE of Sec 24 on cut out & blazed
line found

611.2 (115 Rec.) could not be across
where MC stood

620 shore

700 was as 7 N 3 W.

1090 ± to north shore (Rec = 1113.4)

found stump of a Tamm. but
lack of supporting evidence.

Believe orig line was
somewhat west.

- Use line as extended by eye
pickets
from said cut-out line

Silver Lake - in 5+6 38-6 (100' grid)

Mar. 28th North on corrected line from
Orig MC S. shore (1000 3° 10' E)

Use south MC as 1 N - 7 W.

26-39-66

N 1/2

March 26th '41 25° Snow to fair
with Ivan Hassler + Crace, Miller, O'Connor
" " running with prismatic
compass.

Meas. thru the brush
plumbed hills ± Over 22° E

0. orig 1/4

100' in road

550' E road

900' To spruce Swamp ^{NW} SE
(US rec. 924')1295' mark Tully on 2" spruce
as SW edge open (pond?)

1297.1 1/2 total by for.

1302 1/2 our meas.

1495' E curving rd + br swp.
(US rec. 1551')

2280

2450± } small swamp at extremity

2604 1/2 fall 26' W. of I.P.
found at orig cor.

23	24
26	25

with stones around
Pipe agrees with stump of NE orig
Set new oak post

NEW	{	Oak 7"	N 14° E	4.2'
OVER	{	Oak 5"	N 77° W	16.6'

Cor is just NE of summit + SW of
post of hole (on slope of
" ")

51

Squirrel L.

5/29/41
calm

17-39-5

Set w CD Bench Mark near north
limit of Town Road. 6" exposed
20' ± N 2' E of road.
NE bearing for MC.
trans N 081° W 5'

100.00 Assumed Eler B.M.
+ .23

100.23 H.I. Abney
- 7.53

92.70 Lake level

+ 5.7
98.4 H.I.
- 2.05
96.35 } NW x cement found in

8.01

4.41

3.6 diff bet. lake + found in

Sec. 22
39-511
7

52

May 29th 41

Corrected our N 1/8 40 South
5.9' + west 1.0'
Our old bearings now read:

N 0° Cedar 7" S 19° E 39.7'
" " 8 S 78° W 34.9'

At origl NW cor 22 measure
South 11.9' + west 2' from
post as found + measure in
Dec. '38

and find old posthole
Set new cedar post in "

Our pole to N 19° E 29.5'
C to V buoy N 33° W 27.1'
N 16° E 45.
N P 12" S 1 1/2° W 151.8'

Leave ends to tie up

N/3 Dec 31 1940

Travel To 22-39-5 + remodel corners

found - " " 26-39-6 + built a E 1/4

" " " 17-38-5 - + act N 1/8

" " " Pearl L Take 9P (long) for W MC
E 1/4

142 38 28 3

Squirrel L.

W-20-39-5 at Lake - North being calc

20.87' N + 19.12' E of MC
24.75'

5/20/41 3.88' inside limit of 3rd s.d.
Other 578W 53.3'

Lake maps finished - on hand

Squirrel
Squaw

Buckskin

Garth

Schwartz

Bass

Dugout

28th Sept. D'walt with him

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