

C.C.C.

9

16-17

31-32

#9

INDEX

Page	Sec.	T.	R.	Explanatory
1-2	3	38	4	Game Refuge Line
3	2	"	"	44
4	3	"	"	44
6	3	"	"	44
7	4	"	"	44
8	5	"	"	44
9	6	"	"	44
12	30	37	4	44 $\frac{1}{2}$
13	29	"	"	44 $\frac{1}{2}$
14	33	"	"	Interior
15	29	"	"	44
16	6	37	5	44
20	12+13	38	4	44
23	24	"	"	44
27	"	"	"	Orig. SWx
29	12+13	"	"	Re-meas. 44
30-33	6	37	5	Orig SWx + W $\frac{1}{2}$ + re-meas.
34	24	38	4	transit trans. on #2
36	14	"	"	Random 44
38	15	"	"	44 & Orig. S $\frac{1}{4}$
39	13	"	"	44
42		37	4	#29
48	28-27	39	5	Scotchman Rd.
50	19-30	38	4	(57)
53	15	"	"	44 W $\frac{1}{2}$
54	22	"	"	#17
	23	38	5	44 (for mappers)
o	30	37	5	44

Camp 75-S Minoogna

C.C.C. K & E Wis.
REG. U. S. PAT. OFF.

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.

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.

KEUFFEL & ESSER CO.

NEW YORK, 127 Fulton Street,

General Office and Factories, HOBOKEN, N. J.

CHICAGO
516-20 S. Dearborn St.ST. LOUIS
817 Locust St.SAN FRANCISCO
30-34 Second St.MONTREAL
7-9 Notre Dame St. W.

Drawing Materials, Mathematical and Surveying Instruments, Measuring Tapes.

APR 11 1986

M

Ray # Hall

1
Bootjack Game Refuge
38-4 & 39-4

Exterior lines of Refuge unit
comprising Secs. 3-4-5-6 (38-4)
& Secs. 29-30-31-32 and
S $\frac{1}{2}$ NW $\frac{1}{4}$ and the SW $\frac{1}{4}$ Sec. 33
(in 39-4).

Random $\&$ Sec 3 (38-4)

Nov. 1st 1937 Overcast 45°

Hall, Hink, Ferkus, C. Peterson &
Gliszinski.

North on random picket line

From I.P. at orig. cor. 2-3-10-11
Initial, sight with hand compass on
staff - Var. $1\frac{1}{2}^{\circ}$ E \pm

0.0 Orig. Sec. Cor.

5. 9.47 16 20 25 Tallys

15.30 lv. Swamp E + W

Quit 1 Pm acct Rain

\therefore True var at SE \times = 0° -10' E.

2
Nov. 2nd '37 30° Overcast

Snow flurries

Some party - Continue N $\frac{1}{2}$ M
no blazes found

39.70 Fall .40 E of possible
 $\frac{1}{4}$ location.

2 stps which may fit.

Set Tally stakes every 5 ch.

55.93 Enter Swamp ENE

64.00 SE end bog pond

Extends WNW 4 ch \pm

69.63 lv. Swamp SE NW.

71.20 Re-enter NE + W (4.6' E)

80.37 Temp picket at U.S. Record

Search for cor; then run
west on 2° E var. \pm

From 80.37

18.00 lv. Swamp N + S !

22.20 to 26 lengthwise thru

grass slough

33.00 Enter Swamp open

N + S.

Find no $\frac{1}{4}$ S

80.37 .073 = Tang 1920'
80.97 / 1.12
21.1 / 1.12

N. Sec. 2 38-4

Nov. 3^d '37 Fair 45 Same party
Chain w^y thru brush from
orig. N⁸⁰W. Var. 2° E.

38.46 Enter Swamp N⁸⁰ SW
40. Tally stake

N. end of swamp pond
brs 5 3 or 4 ch.
Find no 1/4 S.

45.75 lv. swamp SW

49. " border brs of 3rd.

57.20 Enter thick Tam. alder swp.
N⁸⁰ SW.

58. Swamp border S. 3rd ±
No blazes.

61 to 65 neck of land N⁸⁰ S

80. Set Tally 100' 205'
Th. pace W. 35 steps + S. 72 steps
To our 80.37

Search again for Sec. Cor. 100' E of
80.37 + find stp. of 2 orig. Bt.
These are the NW + SW "
+ marks are small but plain.

The courses do not exactly fit.
However, by intersecting record dist.
from these 2 we get within 1 link
of record to a charred stp. S22 E.
Set new Tamarac post + marked
slabs at the 2 west Bts.
Nothing for new bearings.

Orig. N80W	.485
Var 0 " S42W	.497
" ? S22 E	.596

Dig + find bottom of old post
one link W. + leave same.

On our N 3 us run

-1.86	Fall .603 S. of orig N ⁸⁰ W 3
0.0	our Tally 80.37 from S.

+ 34.80 adj. meas. enter swp.
S20 E + N10W

our picket line runs on 3° here.

N Sec 3-38-4

Continued

Nov. 4th '37 Fair 45°

Same party

40.

+ 1.14

= 43. ch. W of pt. opposite NE x 3
and continue same random
-adjusted meas.-

Tallys every 5

80. Find no corner

" Some large spruce stood on
point of semi-hard land here.

84. leave swamp N + SW.

" old blaze brs. N. " .34

87. re-enter same swp. NW SE

89.90 leave " NE SW

92.56 over point (from N) + re-enter
swamp SE NE

97. S. end point (from N)

100. sleigh road SE NW

101. enter 3"-6" green spruce


105. W " " "

108½ old blaze (down) brs N .15 +

Must be on the line

113. W. swp. SE + enter low people

119. peak of low ridge

120. Record in bay  (No evidence)

S 3-38-4

Nov. 5th 1937 40° Snowing.Hall, Glisczinski, Ferkus, Hink
Peterson, Hernandez.

West on random picket line N. 3° E.

0.0 Orig. Cor. 2-3-10-11 (J.P.)

56' 8.50 leave swamp (open) + enter
low people point (from SE)83' 12.60 re-enter same swp SW.
Tallys every 5 ch.

39.84 picket at record.

30' 36' 2166 Search - no sign of 7 S
46 - 48 N. tip of point

51 - 53½ " " "

73. leave swamp SE and
continue on low people

79.68 set tally at US record

Many hemlocks grew here
Unable to identify any.

Since definite border of open
bry is only 50 x 60 lks N
we assume Sec. Cor. to be
very near here.



105 quit for day

7 £ 3 + 4 38-4

Nov. 9th '37 Fair 50°

½" snow (melting) same party

119.80 find no ¼ S

121.60 br. sup

" SW 1ch Th. SE 5ch. Th E.

128.70 enter same sup. SE NE

161.81 N. at st. L 6.99 ch to

Orig. Cor. 4-5-8-9

as described Page 58 Book 8

160. NS Record.

161.81

79.68

82.13

.0851 = Tang 4.52'

chs .99634

∴ 79.68

82.427

162.107 own meas.

160 record

2.107

random
was 1 / 2 1/4 W. 1/2 S. 1/4 E.

Since pro-rate throw cor 3-4-9-10

too far W. decide to correct

Toward sta. 79.68

∴ Sta - 79.68 x .0851

Possibility that corner may exist on
extreme N tip of pt. opp. 80.73

Random £ 5-38-4

Westly on random picket line $V \frac{1}{2} \circ E$

0.0 Orig cor. 4-5-8-9

40.08 ½ Couldn't find ¼ S

all open bog - find some
time?

55. W. Swamp N + S

59.89 Fall 2.72 ½ N of old stub
squared 40 yds or more ago

.0454 = 2° 35'

30
3° error

Nov. 10th

Corrected & flagged £ 4

" " " 5 to agree

with stub @ 59.89

= 59.95 ± direct.

Continue £ 5 as corrected

Passes 2' ± S of squared stub @ 59.89

Start new meas. at "

11.27 £ rd road NE. SW.

\$ 6-38-4

Nov. 11th 1937 Fair 45°
Hall, Glisczynski, Fenkus, Hinkle
Peterson, Hernandez
E. on random picket line
(Ar. of blazes) - var. $\frac{3}{4}$ ° E.
- about 5 ch. Fed. Trunk Trail

0.0 Fed. stake found set
record course + dist.

from stp of SW BT.

var } other "down"
0 } 1st N54E .19½
S67W .23 ✓

Enter swamp at post N + SE

3.50 In " SE.

4.01 S face 6" cedar

6½ W. Hem fr cedar swp

8.10 Fall .23 N of old blaze

25½ W. Cedar NE +

enter grass + dead
alder.

35.70 Creek 10 S.

38.20 Same NE

39.00 Fall 1.137 N of Orig ¼ S

.29 = 1° 40'

40

12 W

correct
var.

Set new cedar post by rec.
course + dist from Hem. stp.
now fallen apart but which
bears } axe notch in rotted
shell. Old cruisers mark +
old blazes and pencil record
all testify. Cor. is on N
end of a spot of hard land.
Orig Hem. S54E .18
var } " ? Fir N55E .18
New Cedar 7" N48W .349

Furnished Thrall with correction
figures for trueing up line.

Nov. 12th 1937 Fair 50°
Same party. Continue our picket
line W. by from Boatjack road.

11.27 E

20. Fall S of orig. cor.

set location as near as possible
from one orig B.T. (still alive).

Th. W by on 3° 20' E. ±

39.57 Fall 1.077 S of ¼ S.

1.072 = 1° 34'

Correct flags for refuge brushers.

Random cor = 4° - 12' + 22' 30" (var)

30 - 39 - 4 25°

Nov. 15th '37 Overcast - snow
with Aink, Peterson, Glimski
Ferkus, Hernandez.

Find USGLO monuments for N# 26 39-3
and NW cor ^(orig.) 25. Pace S on blazes
from " " " 1/4 mile to old
log camp. Thence scout out
route NE - then slash to N# 25 39-3
Some where E of 1/4 S.

Nov. 16th '37 Partly fair.

Same party.

Follow USGLO N# 25 E to
Orig NE x find. US monument.

Thence E on picket line var 1° E.
(Scout S thru alders find no line
blazes.)

Mech. E on picket line (N# 30)

4.23 USGLO meridian random
(br. on 1/4° E)

0.0 " Monument

14.22 br. swamp SE + N.
no sign of old line

21.75

25.75

} Swamp NW + SE

37.40 Picket at record -
enter swamp. NE

Nov. 17th

S from NW x 30 on eye picket line 0 var
12[±] encounter USGLO blazes.
fall about 9 ft. E of USGLO 7 S.
Fudge line into " "

Thence fly again using var of line
coming to 1/4.

(Seefeld continued same + came out
within 3' of NW x he reports.)

Nov. 18th 1937 Fair 30

Same party except Glimski (absent)
Continue E on N# random
Saw no sign of 1/4 nor line.

41.40 br. swp NW + SE

Norway ridge seems to continue
S + then W.

" big square rock br ± N 90 or 100 lk.

43.30 enter swamp NW SE

44. Creek S SE

45^{1/2} br. swamp NW

50.40 enter open marsh S + E

52^{1/4} rock promontory br N 1 1/2 rods ±

62 br. marsh NW S

64 enter alder swamp NE + S

4# 30 + 29 39 - 4

Continued

67. lv. swamp NW S6

70 Tally on hill

77. 40 " at US record for
cor. 19-20-29-30

+ enter cedar swamp NW + S.

- no swamp in US notes -

81.30 lv. swamp N+S

85.40 enter " in west end

93. quit for day.

Nov. 19th '37Hall, Hink, Hernandez, Peterson, Firkus
Block, Bernat.

107. E Creek 25 N+S

lv. swp.

Creek

152. Var here reads $3\frac{1}{2}^{\circ} \pm E$

157.10 set flag at records

33-39-4

Nov. 22nd '37 Fair 0° rising temp.

Same party + Glypczski.

North on random $\frac{1}{4}$ S line from
Sta. 120 Page 5 Var $3\frac{1}{4}^{\circ} E$

0 " " enter swamp E+W

lv. " "

enter " "

60.00 Run west $V 2^{\circ}$

40 ch. lv. swamp. no sign of 4#

Nov 23rd '37 Overcast $25^{\circ}-30^{\circ}$ North on $V 3^{\circ} E$ from sta. 40 above

14.51 fall 1.51 W of old blaze

enter swp.

20.80 lv " NE SW

old E+W blaze 60 E.

Sec. Cor. evidently stood on knoll

 $1\frac{1}{2}$ ch E of 20.8020.80 change course to $\frac{1}{4}^{\circ} W$ var.

+ continue meas.

This falls 50 or 60 lbs E. so
deflect line to orig $\frac{1}{4}$ S.

between 28 + 29

60.85 $\frac{1}{2}$ $\frac{1}{4}$ " "

Sec 29 - 39 - 4

Identify orig. $\frac{1}{4}$ between 28 + 29
by stub of NE Spruce some
scribe marks visible. Other tree
frozen down. did not attempt
raising same.

Set new Cedar post:

var 0	{	New Spruce 4" N50E .57
		" " 6" S87E .263

Thence north v. $2\frac{1}{2}^{\circ}$ E.

29. br. swamp E+W indef.

39.07 Intersect one random

H-29 @ 153.46 E of NW x 30
and enter swamp E+W.

Search in vain for Sec. Cor.

Find no line evidence in timbered
swamp N of 153.46.

If corner was near where 40ch
from S. intersects 157.10 from W
then dist N. to swamp
must have been .50 instead of 5.00

Post lines as run, for refuge.

37-5 E.

Surrey to determine $\frac{1}{4}$
NE $\frac{1}{4}$ NW $\frac{1}{4}$. Trespass reported
as extending on SE $\frac{1}{4}$ NE $\frac{1}{4}$

November 30th '37 Fair 0°F.

Hall with Hink, Peterson, Block

Bumdt, Fergus, Hernandez

and J. Hardler

Transit random S. from Orig. NW. cor.

Sec. 6 as staked by Lone Surveyor.

Var 2 = 15' E.

- .42 E+W random found

0.0 Trip Cor.

66' 1. br swamp E+W

1.80 Hub

142' 2.15 Enter Swamp SE NW

343 5.50 br " E+W

5.842 Hub

528' 8.00 Enter Swamp E+W

10.038 Hub

716 11.76 leave swamp NE SW

16.182 Pine Hub

1158 18.00 enters open marsh NE SW

20.00 Tally picket

6-37-5 E.

1330 20.15 br. marsh S.E.
 1452 22 se enters marsh SW
 1617 24.50 br. " E+W
 1650 25.005 Hub
 " Point of marsh bro W ^{115'} 40 steps

(11.22 old stage found -46 W)
 36.328 Hub
 38.65 fall .88 E of a hem stp.
 with 2 stps
 N - E .06 nearly gone
 N - E .07
 * a hem bro found bro N67W 18 1/2
 38.67 opposite Hassler's 1932
 facing on a talson
 38.573 Hem BT found bro W .251
 40.00 Hub Var 1°37' E

Search reveals nothing

Hassler is of opinion that he found
 a post here and faced his mark
 to it.

Age of B.T. seems same as
 flowage survey?

Ely on random Twp. line found (46)

0.0 Hub
 .003 Intersect random 40
 42 N. of post. 89°25' 89 25
 L E to S 178°50'
 4.15 br. swamp SE
 5.88 Hub

4W-5 1/2 6-37-5 E

Dec. 1st '37 -10° overcast - calmHall, Hink. Firkus, Hernandez, Block,
Peterson, Alisczynski, Berndt.

Continue same random S.

46.34 Hub + offset BS $\frac{25}{100}$ ' W

To pass two of Pine @ 50.00

Continue on offset

53.725 Hub

60.867 "

424⁹ 64.95 " Trail SW + NE

67.28 "

72.519 "

77.00 "

670⁷ 78.90 enters flowage E+W80. Tally \pm on line

find nothing.

Dec 2nd wrote Vis. Valley Imp Co
for data.Dec. 9th Rec'd " " notes

made by _____ in summer 1924

Should be able to complete
job now.

See page

Control Line in 38-4

4W Sec. 12

Dec. 2nd 1937 Overcast +15°Sky on Random Transit line from
our monument at Orig. Cor 1-2-11-12Initial orientation from knoll 1/2 ch S
of corner. var. 2° 24' ESetting tallies every 5 ch. not all lined

0.0 NW x 12 Orig.

46 .70 lv. swamp SE.

1.25 Hub

109 1.65 re-enter swamp SE

13.92 Hub v 1° 55' E

151⁸ 23. lv. green spruce SW NE

24.929 Hub v 3° E.

190 27.12 Creek .20 E+W.

46.00 Hub v. 2° 28' E

46 40.099 rit L W. .464 to orig. 1/4 S.

191 set new post } Tam 3" N 44° E .453

138 var 0° " 2° 56' W .173

364⁰ 55.15 lv. swamp NE SW.

55.965 Hub v 2° 16'

364⁸ 58.30 re-enter swp. E+W

13-38-4 E

80.32 decide 9/9/40 to act Tempary cor.
 .86 W. of random.

leave swamp

49345 74.765 Hub at SE x marsh

76.065 " "

80.00 " at U.S. Record

Flagman used poor judgment

" Swamp hrs W 5.30

Record 4.50

we are .80 E ?

Rec = 80.30 $\frac{100}{10}$

4.50 W to swp.

84.80 " from RL.

calc 84.776

79.846
 .41
 79.476

+ 5.30

84.776

OK

160.752
 40.10
 886
 3/120.652
 40.219
 2
 80.438

40.10
 40.22
 80.32

By aligning with $\frac{1}{4}$ North we would have SW x 12

.464 x 2 = .928 W of rand.

by swp " .80 at 80.378
 .86
 .37 160.752

.49 in 80.438 = .0069

= .021'

N 7-07 W true to 12

13-38-4 E.

Dec. 31 1937 Overcast 30°

Hall with Berndt, Gleszinski, Firkus

Hink, Hernandez, Peterson

Continue same random S.

80.00 var. 2° 52' E

87.105 Hub 2° 55'

80.32 at 2 W .86 for SW x 12 (to agree with
 Records to app
 + line $\frac{1}{4}$ N)

103.62 Hub 2° 35'

120.539 at 2 W for $\frac{1}{4}$ (.208 N of hub)

120.747 Hub 2° 45'

129.63 "

134.958 " 2° 34'

140.00 " 2° 31'

N. cor. cabin hrs Wly about 6 nd.

" " 2 S to W 88° 37'

140.647 Th. W. on 3° for dividing line

= \$ Walter Kay

pending final disposition

\$ 14

140.04 at 2 W to N. cor Range Cabin

13 & 24 38-4

Dec. 6th 1937 Snowy +13°
Hall, Hink, Berndt, Glogzinski
Firkus, Peterson.

8:40 AM arriv job.

140.99 doubtful blaze W .52

142.81 old face blaze N+S

br. N. .67½

144.80 " " " .696

156.40 ⊕ Truck Trail #14 N+S

160.00 Pine Hub for

Temp. cor. 13-14-23-24

var 3° E here.

Search 86 lbs W. to be in
line of blazes - nothing definite

7.783 = 179°

171.477 Hub

V. 2° 27'

.635 W

179.265

V. 2° 46'

.82

180.866 at x W .862 for 8 S

= 1.601

9/ Set Pinon for 8 S

also Cedar post

WPstp 20"
Balam 6"

183.

⊕ Truck Trail #2

179.26
3.74

1 tally SE of Dewalt's mark

2 ¼ ch " of my "

186.615

Hub + enter thick cedar +

1.001 W

spruce swp. SE + NNW V 2° 47'

Record (reversed) - 186 ch ✓

190 ½

old blaze on N side stub 2° E

195.972

Hub

2° 42'

200.00

" for temp ¼ 23 + 24

V 2° 35'

Boys find E+W blazes about 3rd ahead
+ a stake about 1 ½ ch W on blazes.

24-38-4 E.

4W

Dec. 7th '37 Overcast +10°
Hall, Hink, Peterson, Gliszinski
Bernett + Phelps.

@ 200. old stake bus SW 1.65
↳ S to W 54°-51'

∴ 200.95 at L W to old stake 1.349

Search for old evidence - none.

* 200.975 at L W to orig 1/4

207.273 Hub 1.33 from random

220.656 Hub 1.29 from random

Offset B.S. 4" = 1/2 k E.

Continue over island on
same .005" offset.

Should find some trace of Sec. Cor.

221.132 at L W. 1.289 or 1.294
= .476 for 1/8 S. from random

* April 29th '38 V.M. Maine reports
finding orig. evidence of this + cor
+ setting post.

See page 60

240.219
20.1095
60.3285
200.975
40.099
476.076
40.219
+40.099
80.318 etc.
60.329
140.647 etc.

4W Sec 24-38-4 E

Continued

Dec. 13th '37 Fair +5° to 20°
Hall, Bernett, Hink, Phelps
Peterson, Gliszinski.

Continue meas. + line S.

222. hr swamp SW

224.293 Hub (offset 4° E)
V 1°-37' E.

225.25 re-enters Swamp E + W.

226.441 Hub (still on offset) V 2°-10'
1.278 from offset

" One sun observation (not so good)
10:30 AM CST alt 18°-34 Temp +10°
↳ off line S to E 19°-56' ±
∴ Random calculates S 0°-20' E. (one obs)

231 ± hr. swamp E + NW ^{from 1/4}

233.186 Hub var 2°-30' E + 1.259

re-enters Swamp NE + NW

238.178 Hub - did not set R

238.322 R on line (offset) in view of Sec. cor.
V 2°-18' ↳ S to W 22°-35' dist. 3.217 ch.
45°-10'

reverse + set reference hub .138 NE
of 238.322 in line with corner.

Cor. Secs. 23-24-25-26

(Orig.)

Identify corner by very old stake which agrees with both bearings. SW one is stub 10' hi. marked σ NW " " Stamp with boxing apparent. Pencil registrations from 1912.

Set new cedar post record dist. from both σ mark: $\frac{ch}{v}$

New.	{ Cedar 6" N84°E	.233
v 7°	{ " 6" S13°E	.353

Meas. N. on random from 238.178

4.99	To Hub	233.186
17.53	"	220.656
30.929		207.273
38.195		200.

.017 excess over first meas.

\therefore 241.29 at $\angle W$ $1.235 - .005 = 1.23$ ch.

.00510

Tang. $\delta = 17.5'$
fall σ .

See page 60

3/241.29

2/80.43

2/40.215

20.1075

20.1075

40.215

60.3225

20.1075

80.4300

100.5375

20.1075

120.6450

140.7525

20.1075

160.8600

180.9675

20.1075

201.0750

221.1825

20.1075

v 241.2900

Was noted
as to
in relation
to
true
new
true
determination

1.23

2/.410

2/.205

.1025

Re-meas. Dec 14

199.962

41.29

3/241.252 total

80.4173

160.8346

\therefore @ 160.835 or

.875 D. of hub "160"

thence calc. $\angle W$ @ 90° 82 lb.
for Temp sec. cor.

\therefore 4 of crosses *2 at 21.71 ch \angle Temp \times
= 1.606 S of $\frac{1}{8}$

29)

W 12-13-24 (38-4)

Dec. 14th '37

Fair To Overcast.

-8° at 8 AM

chain.

Hall, Hink (Peterson, Phelps, Glesinski)

" " check alignment at 80.

Chainers re-meas S. from NWx12 with 100' tape.

Dec. 14th

Dec 2nd

Dec 2nd

918.5'

13.92

918.7'

1645.5'

24.929

1645.3

3695.2'

55.965

3693.7'

4929.2' ch.

74.765

4934.5'

5274.1 = 79.911

80.00

5280.

6599.

100.00

6600.

6837.8

103.62

6838.9'

7967.1

120.747

7969.3

8904.2

134.958

8907.2'

9236.7

3/241.252

3/1.23

9859.1

80.417

10557.4

79.911

41

11,314.4

.506 S. th. W

11,830.2

True Area =

241.22

838

241.252

12,313.5

12,931.

13,197.5

200.00

13,200.

2.5' short.

Was 1st meas.

(30)

Sec. 30-39-5 E.

W 1/2

Nov. 29th '37 Fair -3°

Hall, Gligzinski, Berndt, Block, Peterson

Set on transit random from Dors W 1/8 E 1/4-50°

7.794 picket

13.874 " (BS)

17.29 E old road NE + SW.

18.247 Hub. Thence. - right to on J.P. for 1/4

+ 13' 8°-25' 1,823 ch.

1.818

= .1327 & 1.818

20.065 st - 6 .134 to Temp 1/4 S (set by doubling from Dors Centre then 1/8 in S 1/2 = .00666 = Tang 6°-23' fell N.

West from Dors W 1/8 E by defl. - N. of random 0°-23'

8.32 Hub

11.18 E New Pine L. road (SW 1/4)

13.407 Hub

20.527 set Popl. stakes for location of orig. SW cor 30 - will search again when snow goes.

Could not be so sure of exact spot by pacing when we searched here before.

1998 at D
20.065 - fall
1991. 055 comp
100 ft 5
x 20.44
20.067
20.067 P.P.

20.065
20.527
40.592

Sec. 6 - 37-5 E.

December 17th 1937 Fair 30°

Hall, Hink, Gleisinski, Peterson,

(Phelps Berndt) chain.

Find Orig. West 1/4 S. as identified
by Valley Imp. man in 1934. His post,
down pits @ 52 lbs S 72° E from
his Hem and 23 lbs NE of an old
Hem. (down). We set new cedar post.

→ at 1.22 N of our sta 40.00 " "
to S 23 lbs \angle N to E $89^{\circ}48'$

Search again for SW. corner

48 lbs E to 78.80

Find it (farther E)

Line in hub at 78.432 (on offset $\frac{25}{100}$ W) same

Thence meas. to Sec. Cor. 1.452

 \angle S to E " " " $54^{\circ}28'$ ∴ @ 79.276 at \angle E 1181-.004 = 1.177 to cor

Their post in good condition, agrees with
tall stump of only 14" Pine + mound
where birch grew.

Nothing near for new Gings.

Re-measure random W-N. from sta 40.

3.67 Hub called 36.328' or 3.672

14.976 " " 25.005' or 14.995

19.97 Tally 20. 20.

20.529 = 19.308 of Top Cor. at post E-11 1/2

1/8 $\frac{25}{100}$ W
of same line
from
Hub

}	Spruce 3" S 46 1/4° E	1.177
	" 4" S 41 3/4° W	.718

23.787 Hub 16.182 23.818

29.909 " 10.038 29.962

34.107 " 5.842 34.158

39.837 Top cor 0. 40.

- 40

.163 short. ! Does not pro-rate out.

this indicates 39.837

1.22	
<u>38.617</u>	at \angle E .23 to cor.
	$\frac{.00596}{.00596} = 0^{\circ}20.5'$

" " 1/8 should be 11 1/2 E @ 20.529 N.

238.617	N. of Tally. N. of Hub. 89° 54.8' off random
19.308	
<u>39.837</u>	
20.529 N.	

Wis Valley gives 38.20 from Top x S to 1/4

6-37-5

Solar Observations for Azimuth.

Dec. 17th '37 30° to 40° F.

AM At. 77.43 S. of Twp Cor.

① 10:06.5 C-ST. alt 16°-36' + StoE 27°-01'
(∴ random = S 0°-51' W)

II

At. 78.43 S. of Twp Cor.

② 10:40 18°-51.5' < 19°-15.5'
S 1°-00.5' W③ 10:42.8 19°-01' 18°-35.5'
S 0°-55' W④ 10:45.5 19°-10' 17°-55'
S 1°-03' W

Ave. S 0°-57.4' W

P.M. on H, random 5.88 E of Twp cor.
40° F. < S E to SW.① 1:27.6 PM 18°-01' 110°-38.5'
= S 89°-04.5' E.② 1:30.8 17°-48' 111°-19'
S 88°-58' E.③ 1:33 17°-39' 111°-51.5'
S 89°-02' E Av. S 89°-01.5' E

9.699 Hub + 10 - enters surp N. & S.

Planned to spot N. 8" but decided to
deflect N. (0°-03') to Hub 20.00

24-38-4

Transit traverse along #2 to determine
bearing of Trial E Sec. 13Dec. 20th 1937 -4° Fair Hall + 5 CC

Assume random 44-13 as S 0°-20' E

∴ From Temporary cor. 13-14-23-24

N 89°-40' E 54.1' see pg 60 *

S 0°-20' E 1447.8' to #3 thence: ch.

① 116°-41' = 116°-15' ✓	818.1' = 12.40
② 124°-30' = 124°-04'	767. 11.60
③ 129°-49' = 129°-23'	1602. 24.27
④ 127°-30' = 127°-04'	418. 6.33
⑤ 108°-34' = 108°-08'	264.9 4.01
⑥ 84°-32½' = 84°-06'	286.5 4.34
⑦ 62°-22' = 61°-56'	442.5 6.70
⑧ 46°-36' = 46°-10'	822.2' 12.45
⑨ 42°-30' = 42°-04'	775.8 11.76
⑩ 61°-27' = 61°-01'	171.3' 2.60

To Hub on random range line

⑪ 55°-42' 227.4' " " reads 0°-27'
To loc. poster should " 0°-01'Reduce all azimuths by 0°-26'
see col. #2Convergence of random S. appears to
be 0°-47'

Course of 44 random appears to be S 0°-46' E

35

From #2 N.0°-01'E. 2460.1'
East 31.3 to

NE cor. 24 as proposed to set.

∴ Based on Col #2

Temporary SW cor.¹³ is 79.335
336.8' S + 5236.1' W

= 5.103 ch.

of SE cor.
.06436 = tang. 3°-40'-50"
= S 86°-19'-10" W

5246.9' = 79.50 ch.

UB record = 79.95

N.B.

Old blazes found along W-14 line out
.045' ch. W. of Temp'y cor.

Decide to try N 89°-46' W from Temp'y cor.

Run by jungle 89°-00' N to W of random

x - 82 Intersection random lines
@ 160,849 Incaas. V. 1°-27' E
- .442 x find cor. 1127 N
0.0 Temp'y cor.

x " Solar obs. give N4S random as
S 0°-40' E + S 0°-43.5' E

8/20/40 281' W of final cor set road markers
W of road

10.16 Spike for hub.

10.718 Intersect true line +

36.8

= .558

0°-39.1'

Turn from
10.16
spike to
hub

21.878
19.378
2.500
= 166.3

\$ 14-38-4 E random
continued

36

Monday January 31 '38 Or'cast +15°
Hall, Hink, Behndt, Phelps, Petersn, Glisinski

15.708 spike for hub V on 0 = 1°-44' E

17 to 18.20 skint S. edge 5A marsh NE

20.24 old road NW

19.378 =

correct 5.099 = 6.53 from 8

21.898 Spk. for Hub (S. edge) V 1°-50'

23 to 25 in old road

29.30 ± cross " " again NW

29.88' Hub (218 S) 14.39' Var on 0° = 2°

enter Swamp

39.11

possible post 810 S .341

10/38 39.198 set = S to 1/4 S Iron Pipe (orig) .324

40.00 Tally W.P. 7 577°-50' E 2.454

44.542 Hub-leaning V. same
on neck NW + SE

57.155 Hub V 2°-10' E

will strike a blg.

60.50 ± enter Swamp SW

64.275 Hub + offset 30

20 Mk. S.

58.978 set = S .373 from 8 S

160.849

160.795

.056

spike

on

Meridian

random

37 \$14-38-4 random

Jan'y 4th 1938 +5° Fair
Same party - continue meas. on
random

69. to river - SE. 1 ch wide

74.10 br. to town N+D.

75.258 Hub + offset S 20 lks.
to pass cabin (1/2 rd ahead)
thence on spect.

80.10 old face flags .24 S.

80.19 Temp'y cor. (hub) on spect line
& continue. " "

78.759 at S .222 To orig Cor.

4/21/38 Set Iron Pipe + post
√ 50° E - New Sugar 13" N 29³/₄° W 1.171 ch.

98.674 calc $\frac{1}{8}$ S at 90° .473

92 ± Enter open swamp SE

95. Tally, not lined

99 $\frac{1}{2}$ leave swamp SW (1 ch. Th. S 4 ch.

100. Tally " SE)

102.971 Spike for hub

107.35 Enter open marsh N+D
(N about 1 $\frac{3}{4}$ ch Th. N10)

114.82 $\frac{1}{2}$ Spike for hub

Orig. $\frac{1}{4}$ S $\frac{15}{22}$ 38-4 E 38

119.00 Hub (var on 0° Az = 2°) + Turn
↳ E to S To Orig $\frac{1}{4}$ S bet 15 + 22
60:21 .833

118.588 at S to $\frac{1}{4}$.724 from spect line
" .20
" .924
" .00779 = 0° 26.8'

Orig random fell N.

.00779 x 80.10 = .624 - .20 - .24 = .184

S of old flags at 80.10

Temp'y SW 14 should go 120.26 R
E 1.115 (pending ✓ on \$13) 118.588 M
1.672 short from
Temp. cor.
13-14-23-24

Guided by old squared Tamm. we
find the North PT (down) faint marks
visible. Assume one of 2 steps SW to
to other orig. + set new cedar post.
Find old stake (down) within 1 lk. Use ours.

New Tamarac 3"
0° var } 579° E .644
Probs @ p. 14 " 3° S 23° E 1.027 = 67.8

See page 53.

Jan'y. 5th 1938 Fair -16° @ 8 AM.

Hull, Hink, Peterson, Phelps, Glisinski.

N 86°-19' E on calc. course from

Temp. y SW cor. (turning off random \$
4w. 1 87°-05' N to E)

0.0 Temporary SW x

29.63 = .449 st & N. 0.096 to final cor.

8/30/40 Set Co. Mon 10" exp (+ cedar post
(W.P. stp. 20" S 18° E (PC) 25.2')

54.12 82 N + @ random @ 160.793 (2nd meas.)

35.07 5.306 Hub (9 1/2' bk. = 6.23)

1) 10:21 alt 17°-42' + 68°-14'
= N 86°-43.5' E ?

2) 10:23.2 = 17°-54' + 68°-48'
= N 86°-46' E ?

14.788 hub v 1°-52' on 0 6.00'

1) 1:25 PM 19°-18' + 67°-03'
= N 86°-27' E

4.23.00 2) 1:27 (19°-13' (66°-34') = 86°-22'

20.213 st & N. 0.0887 = 5.85' for W 8

24.517 Spikes for hub (5.76)

35.045 " (5.51) v 1°-33' E on 0

39.50 Hub (should have been 39.75)

41.388 " 5.35'

Find no 4. S.

86°-34.6'
14.788
86°
M. av. calc
4.23.00
20.213
24.517
35.045
39.50
41.388

January 6th '38

39.977 st & N 7m H. 0.0815 = 5.38' (RR rail + cedar post)

Transit on 41.388 var 1°-57' E on 0 5.13

50.237 Hub

55.521 " " 1°-22' E 5.00'

58.00 enters narrow scarp N + S

60.00 set Tally stake on neck

60.70 HC enters marsh in NW x ds + follow N. margin "

64.515 Hub v 1°-30' on 0 (4.79')

65. enters same marsh W + N

59.741 st & N. 0.0742 = 4.90' for E 8 S.

69 to 70 creek S.

70.60 W. marsh - bank steep

75.119 Hub (4.53') (seem to be coming out OK)

+ 4.386 Have not set mon. at SE cor.

79.505 fall 2/2/38

0.067 } 7 mon. 0 = 02.9'

0.029 } 86°-22' = 5 to W. (random)

86°-19.1' @ 17m 42" short right.

86°-22'

86°-19.1'

86°-20' E true line bet

60. 54.741

2.59 = 17.1 W 860.

4/22/39

5.13

5.00'

(4.79')

(4.53')

2/2/38

7 mon.

0 = 02.9'

86°-22' = 5 to W. (random)

@ 17m 42" short right.

86°-19.1'

86°-20' E true line bet

13

74

£ 13 -

Calc. June 11th 1938

Calc final SW x as at .376 W

from sta. 160.756 (orig. meas.)

= .096 N^y at 90° from sta.

.449 on random £ 13 (page 39)

Since we fell .067 S of SE x

79.505		.096
-		.067
.449		79.051
2/79.056		+ .029
2/39.528		= .00037
+ .449	sta	88 25
39.977		.0815 = 5.38'
19.764		+ " 20.213' .0887 = 5.85'
59.292		59.741' .0742 = 4.90'
449		
59.741		

∴ S 86° 24' W 79.056 true line.

Project 29

(10+11
37-4)

Compass + Tape Travers.

Jan'y 7th '38 Fair -4°

Hall, Phelps, Berndt, Peterson

Begin at approx spot for orig '14th

(have not yet set post from orig BT)

West on 2° 361' to £ 29

No var.

- 1) S 10° W 910 1/2'
@ 200 inside of curve
" 910 on W. shoulder + enter pen
 - 2) S 7° W diag. 860 on E.
 - 3) S 10 1/2° W 283 + lv. pen
" in E ditch + £ SW.
(all one course from curve)
 - 4) S 36 1/2° W £ 904 To P1 ^{Ext 25'} _{Tan 100 ±}
 - 5) S 89 1/2° W in £ 1053' ^{x 20} _{T 100 ±}
 - 6) S 37° W 233. on W shoulder
@ 100 in E ditch.
 - 7) S 23 1/2° W 168' on SE shoulder
 - 8) S 56 3/4° W 217 " W "
- " along N. shoulder
4628'

43

29 thru 11 & 10. 37-4

- 9) S35½W along S. shoulder 193'
 10) S70½W 639'
 @ 150' fire lane gate at
 W. end of fill
 @ 639' x 24' Tang 100'

- 11) N60¾W 281. ^{x 15} T 90
 12) S80½W 1531. ^{x 12} T 90
 13) N71W between marshes 292
 14) N78°W 2576' ^{To Town}
 @ 2468 approx 40 Sec 10
 @ or 50' N of W 4'

5512'

4628

10,140' Total.

NW Sec 11 ±

Jan'y 11th '38 Hall + Peterson
 Only NW x S on 3¾° E var.

Follow cut out line for ¼ mile

2640' measured find nothing. ^{Have 3} _{people}
 Th. E on 2½°

266½' course here same as road

" st. c. 62½' to sta ⑤

266½
 1053
 1319½

we would be 60' N of sta ④ with ¼ S.
 or 2nd NW of E on curve - blaze a cherry

44

Project (29)

In Secs. 2 & 1 37-4

Jan'y. 10th 1938

Partly overcast -24° at 7 AM -8° at 8:30
 Hall + Peterson

Compass traverse on & along E
 beginning on E Sec. 2 369' W of ¼ S.
 6° Var.

- ① N13° E 664' ^{Ex. 3} T 50
 ② N28½ E 734' ⁴ 60
 ③ N36° E 996' on W. shoulder
 ④ N69° E 200' " N "
 ⑤ S76¾ E in E 315' ^{Ex 12} T 70
 ⑥ N65¾ E 358' ⁴ 60
 200 to " cedar swamp
 ⑦ S78¾ E 210' ^{Ex 14} T 80
 ⑧ N58¾ E 353' ⁴ 70
 ⑨ N76½ E 217' ⁷ 60
 ⑩ N48½ E 195' ⁵ 60
 ⑪ N67¼ E 149' ⁵ 40
 @ 48' Intersect line of Secs 1 & 2 138' S of orig. ¼
 ⑫ N50½ E 195' ⁵ 40
 ⑬ N71¼ E E 343½' ⁸ 90
 ⑭ N52½ E on C.C. 266' ²⁰ 90
 ⑮ N13 W 330' ⁷ 70

5525.

- (16) N18 $\frac{1}{4}$ E 228' $\frac{88}{780}$
@ 215 wood road N60W 150th W
200 enters swamp draw
- (17) N55° E 245' $\frac{4}{75}$
@ 66' br. swamp
- (18) N61 $\frac{3}{4}$ E 275' $\frac{17}{80}$
- (19) S80 $\frac{3}{4}$ E 355' $\frac{7}{70}$
@ 290' proposed culvert
- (20) S41 $\frac{1}{2}$ E 213' $\frac{34}{113}$
enters marsh @ E curve.
- (21) N73 $\frac{3}{4}$ E 476' $\frac{30}{125}$
@ 350 br. marsh
- (22) N19 $\frac{1}{4}$ E 390' $\frac{8}{90}$
- (23) N6 $\frac{1}{4}$ E 431' $\frac{24}{130}$
- (24) N38 $\frac{3}{4}$ W

Continued July 24th '38 with Berndt, Peterson, Rainie Snowing +30°

- (24) called (25) by mistake - made 39 $\frac{3}{4}$
- (25) N39 $\frac{3}{4}$ W 464 $\frac{1}{2}$ ' $\frac{87}{790}$
@ 250 culvert
- (26) N22 $\frac{1}{2}$ W 175' "
- (27) N 2 $\frac{1}{4}$ W 142' "
- (28) N26 $\frac{1}{2}$ E 122' Ex 9'
- (29) N54 E 111' 8'

3627

- (30) N78 $\frac{1}{4}$ E 356' $\frac{140}{}$
@ 214 Swamsauger Bridge
270 BC.
356 $\frac{1}{4}$ on H Seal bro. N 16 $\frac{1}{2}$ '
" $\frac{86}{}$ E bro. S 13'
- (31) S76° E 126' x 10'
- (32) S30° E ± 311 $\frac{1}{2}$ ' x 5'
- (33) S39 $\frac{3}{4}$ E 123 $\frac{1}{2}$ ' x 7'
@ 41 culvert, 100-BC
- (34) S69 $\frac{1}{2}$ E 127' x 6'
- (35) N84 E 111' "
- (36) N57 $\frac{1}{4}$ E 100' 7'
- (37) N26 $\frac{1}{4}$ E 256' x 19'
@ 50 enters marsh @ 100 culvert?
175-BC 200 br. marsh
- (38) N78 $\frac{1}{4}$ E 243' x 6'
45 to 200 swamp 152' culvert
BC
- (39) S80 $\frac{3}{4}$ E 164 $\frac{1}{2}$ ' x 5'
- (40) N70 $\frac{1}{4}$ E 270' ±
- (41) N76 $\frac{1}{2}$ E 233' x 11'
100 to 175 Hemlocks
- (42) N45 $\frac{3}{4}$ E 393' x 10'
T 90
18
100
7
- (43) N62 $\frac{1}{4}$ E 399'
- (44) S74 $\frac{3}{4}$ E 416'

@ 295' Intersect ± line between R4 & 5
236 $\frac{1}{2}$ N of Cor. to Twp. 37 & 38

47) #29 in 31-38-5 E

45	N 85 1/4 E	199.	x 6
46	N 47 1/2 E	296.	6 100
47	N 68 E	140.	5
48	N 82 1/2 E	364.	4
50 to 350 Ash swamp			
183 Hi-bridge.			

49	S 86 1/2 E	230 1/2	x 8
50	N 62 1/2 E	186	9
@ 150 pulp road Ely			
51	N 26 3/4 E	192	7
52	N 7 1/4 W	126	3
53	N 21 W	346	8 50
54	N 9 E	112	6
55	N 42 E	214	Ex 14 =
@ 40 culvert? 150 BC.			

56	N 1 1/4 W	1097.	x 16 T 100
@ 880 culvert			
57	N 27 E	277	x 12
@ 220 BC.			
" 277 Blaze 2° cherry for P.I.			

N.B. — We have accurate traverse
this far from north.

Scotchman Lake Road. 48
Secs. 28-27 (39-5 E)

Jan'y. 13th '38 Overcast 45°
Hall, Hink, Peterson.
Staff Compass (0 var.) + chain Tape.
S. on V 2 1/2° E ± (Thru brush) from
Orig. 1/4 S. on W 28 11.63 ch. to E
Scotchman L. Road. do to N 56 W 1 1/2 ch.
to intersection with #16.

Trav. Ely. in E

0	=	4# Sec 28	
1)	S 83° E	10.26	
2)	S 41° E	3.43	
3)	N 87 E	4.89	
4)	S 78 E	5.33	
5)	S 56 E	3.62	
6)	N 89 E	1.59	5' N of E
7)	N 77 E	6.31	" "
8)	S 87 E	6.57	4' S " "
@ 2.64 culvert			
9)	N 83 E	1.26	4' S of E
10)	N 63 E	7.81	
@ 7.00 old grade S 59° E			
11)	N 84° E	4.64	4' S of E
12)	N 71° E	1.80	3' S " "
13)	N 58° E	2.18	

@ .57 E Squirrel R. bridge

Scotchman L. Road - continued
 28 & 27-39-5 E.

14)	N 19½° E	3.38	Ex. .35
15)	S 80° E	3.87	on S. shoulder
16)	N 60° E	2.39	
17)	N 21° E	1.74	
18)	N 9° E	5.47	Ex. .25 + jet trail W
19)	N 68° E	3.89	±
20)	N 78° E	3.44	s. shoulder
21)	N 56° E	2.05	±
22)	N 31° E	4.83	±
23)	N 35½° E	2.32	3' W of ±
24)	N 49° E	4.34	
25)	N 62½° E	7.21	

@ 2.53 Fall. N. N.7 D'Walt's
 stake for ± Sec line, marked
 "9½ ch. N. of ¼ S 27+28"

26)	N 55° E	4.36
27)	N 43° E	4.46
28)	N 52½° E	4.54
29)	N 78° E	3.43
30)	S 89½° E	3.25
31)	N 80½° E	3.25

Quit for the day.

Project #57 E. from County Line 50

Traverse thru 19-30-29-20-21 (38-46)
 Jan'y. 18th '38 Orucast 15° Snowing
 Hall, Berndt, Peterson, Raine
 USFS Post for orig SW cor. 19-38-4
 Orig B.T. hrs. S 74° E (no var). 243
 N. on this corrected line U. 3° E
 5.32 ch. = 351' ± #57
 Th. E by on ± 0° var. (Chain Tape)

1)	S 88° E	7.73 = 510'	4' N of ± Ex. .33
2)	S 80° E	7.23 = 477'	T. 3.25 x .09
3)	S 54° E	7.97 = 526'	T. 1.50 x .03
4)	S 67½° E	7.78 = 513½'	.18
5)	S 63° E	6.96 = 459'	T. 2.00
6)	S 85½° E	7.27 = 480'	Ex. .16 T. 1.25

@ 2.71 = (179) Gate (WCR)

2.96 = (175) ± Bridge - Little Willow

6.21 = (410) ± N+S ¼ line 9.90 = 653'

S. of orig ¼ S $\frac{19}{30}$

7.27 road to pit hrs. Nly

7)	S 68° E	13.49 = 890'	Ex. .20 T. 1.50
8)	N 85½° E	3.32 = 219'	.18
9)	N 61° E	3.60 = 237½'	.18
10)	N 39° E	4.48 = 295½'	.15

1607.5'

51) Project #57 in 30-38-4 E

- 11) N 23° E 5.02 = 331 E
 12) N 24° E 5.66 = 373½ Ex. 25 T. 1.70
 13) N 49¾° E 3.59 = 237 .07
 14) N 65¼° E 3.06 = 202 T. 1.00

15 @ .60 Beginning of fill

- 15) N 78½° E 3.81 = 251½ Ex. 12

@ 1.12 = 74' E Bridge - Willow R.

@ 2.00 End of fill.

3.81 cabin brs N 56° E

- 16) S 81° E 4.66 = 307 .08

@ 2.00 P.C.C.

4.66 cabin (same) brs N 47° W

4.66 fence cor N + E brs N - 13.0°

- 17) S 72° E 7.72 = 509½ 1.70

- 18) S 54° E 6.32 = 417 .08

- 19) S 46° E 4.05 = 267 .03

- 20) S 38¼° E 15.27 = 1007.8 Ex. 08 T. 1.25

- 21) S 47½° E 4.37 = 288 .09

- 22) S 59½° E 4.01 = 264½ .09

- 23) S 74° E 3.20 = 211 .08

To lot with cedar road

" " brs S var 2° E.

4667.

- 24) N 89¼° E 3.69 = 243½ .10

- 25) N 75¼° E 3.58 = 236 .10

- 26) N 62° E 4.54 = 300 .10

- 27) N 50° E 4.69 = 309½ .10

- 28) N 37½° E 5.40 = 356 .10

- 29) N 28¾° E 11.39 = 752 Ex. 10 Tan 140

- 30) N 40¾° E 3.31 = 218½ .09

- 31) N 52¾° E 5.30 = 350 .10

- 32) N 64° E 3.47 = 229 .02

- 33) N 68° E 27.06 = 1786 .10 2.00

- 34) N 76¼° E 5.09 = 336 .07

- 35) N 84¾° E 6.08 = 401 .09 1.30

@ 4.76 = 314 culvert

- 36) S 82° E 10.99 = 725.3

To point opp. big hem stp + approx N.S. 7/4 line

- 37) S 80° E 12.22 = 806½ .04

@ 3.00 enter marsh

- 38) S 82¾° E 9.06 = 598 .06

@ 5.00 lv. marsh

9.00 = 595 fill begins

- 39) S 85½° E 3.87 = 255½ E

@ 3.87 enter marsh

- 40) S 78¼° E 5.04 = 332½ .07

@ 1.60 = 105 E Bridge over Boatjack Cr.

- 41) N 85½° E 3.12 = 206

@ 2.00 Gate (W.C.D.)

@ 2.50 lv. marsh.

To lot old road SE to Indian pt.

53) \$ Sec. 15-38-4 E. (W $\frac{1}{2}$)

Jan'y. 19th '38 Overcast 25°F

Hall, Berndt, Peterson. Rain.

Run eye-picket line Wly from Orig. '14

S. bet. 15 & 22 (Page 38)

Run between first 2 old blazes found

@ 1 + 6 ch ±

0.0 1/4 S.

12.69 $\frac{1}{2}$ 3^d old blaze - on line -

we cut off above spots.

Var. here = 1° E

19.00 E. edge 20" Tam. stp 1' N of line

19.59 br. Swamp NE SW

25.01 Tally on low hem. stp. 1 R.N.

Jan'y 21st '38 30° Overcast Fog.

Hall, Peterson, Berndt, Glusinski

29.85 $\frac{1}{2}$ Balsam 6" on line.

35. Tally on poplar stp.

38.76 \$ Truck Trail #17 100 N. on V 2° E

40.07 Set poplar stake at US record

40.28⁶ Fall .61 $\frac{1}{2}$ N. of poplar stake

Found. M^cQuinn may have

set this in Dec. '33 at our

spaced record.

Do not remember finding it
then. Looks 4 yrs old.

40
36
3
1
3
1
6

Traverse #17 in Secs. 21 & 22
38-4 E

54

Jan. 0°

Jan'y. 21st

0.0 = \$ at \$ Sec. 15 (38.76)

1) S 1° W 12.07 = 791'

@ 11.10 culvert ?

2) S 8° E 5.60 = 370'

3) S 9° W 1.69 III'

4) S 43 $\frac{1}{4}$ ° W 2.54 = 168'

@ .67 = 44' culvert

5) S 6 $\frac{1}{2}$ ° W 2.19 144'

6) S 19° E 2.71 = 179'

7) S 8 $\frac{1}{4}$ ° W 4.27 = 282'

8) S 9 $\frac{3}{4}$ ° E 3.23 = 213'

9) S 16 $\frac{1}{4}$ ° E 6.19 = 408'

@ 2.00 enter swamp

10) S 8 $\frac{1}{2}$ ° W 6.44 = 425'

@ 5.85 = 386' culvert

11) S 3 $\frac{3}{4}$ ° W 3.25 = 214.5'

@ 1.04 = 68.6 Gate (W.C.D.)

12) S 12 $\frac{1}{4}$ ° E 3.08 = 203'

13) S 21 $\frac{3}{4}$ ° E 2.43 = 160'

14) S 30 $\frac{1}{2}$ ° E 3.78 = 249'

@ 1.54

Lake 16 trail no rail

Ext. .07

Tam 1.00

.06

.11

.10

.10

.08

\$

.24

2.20

.03

.08

.07

\$

\$

Projects 17 & 57 22-38-4

15) S 21° E 4.83 = 319 .16
 @ 3.00 \pm is 10th W.
 @ 4.83 old $\frac{1}{8}$ post found hrs.
 S 76° W P.C. 4.993 = 329.5

16) S 55° E 4.22 = 278.5
 @ 2.00 \pm is .06 SW
 @ 4.22 jet with #57 (W. N 69½° E
 thence on #57

17) S 60¼° W 8.55 = 564 .08
 to jet old road (W. N 36° E)

18) S 48¼° W 4.47 = 295 .12
 in sand cut

19) S 25½° W 3.10 = 204½ .04

20) S 18½° W 2.77 = 189 .09
 to the Wye (hrs S 1° E)

21) S 36° W 2.49 = 164 .09

22) S 59° W 2.83 = 187 .12

to far end of Wye
 = our sta (41) (Page 52).

17 to 22 inc = 1597.5

Hatchery

Feb. 4th 1938 Fair +15°

Hall + Rainc

Give levels for North met house
 footing batter boards and check
 alignment.

4.92 Rod on old ^{center} (SW) met House floor

4.73 " " Top of Foundation SE met House

∴ .19' above floor of Center bldg.

Shroeder explained this was intentional
 " wants NE bldg. same as SE.

104.92 H.I. and marks on bldg.

- 1.59

103.33 H.I.

100.19 Required

3.14 rod reading for batter boards

Align ends by connecting our reference
 hubs on North with corners of bldg mess up.
 align Sides by meas. 1 from " " "
 stretch lines.

Turn = at NE cor. 89° 58' @ 179° 56'

4 meas. slightly more than 100 \pm OK

Advise shift of $\frac{1}{8}$ " at NW + NE corners.

Sec. 22 - 38 - 5 Cedar Falls
 Random

Feb. 8th 1938 Fair + 30°
 Hall, Gloszinski, Berndt, Phelps
 (transp.) Brown + mappers.
 Initiate eye picket line w/ly from
 Engl SE cor. (WCD mon.) var 2° E.
 ch.

1.90 enter marsh NE + SE
 5.10 Tomahawk R. SW
 6.90 over same
 6.99 - 10.70 14.093 16.02 pickets
 9.50 lv. marsh N + E
 15.40 enter marsh in NE cor do
 16.40 to " bus SW.
 18.20 Point of land from NE
 18.59½ rt = S 1.668 To 1/8 post
 found

.03592 Tang. 2°-04'
 0 2
 var = 4°-04'E

Correct line and pickets back to SE cor.

Calc true line = 18.607

Ph - Project corrected line w, continuing
 same meas.

18.607 post
 22.64 leave marsh S + NW
 23. picket

18.607
 57.214

Sec 22 - 38 - 5

25. to 25.75 cross S. tail of marsh
 extends S. 3ch =

37.00 4" Poplar 1½ Mc N. of line
 " bears "Cedar Falls" sign

(37.214 P.R. on 1/8)

37.39 E Project 10 P.C. N 23 E
 & S 23 W 3ch ± to

38.315 correct N. 03 + drive cedar stake
 Turn 84°

45.00 stump of 3" Poplar on line
 mark Tally on 4" Poplar about 5' S.

Feb. 10th '38 partly fair + 12° Same party.
 48.00 enter Swamp - Thick spruce - fir
 SW + E NE

55.60 lv. Swamp N + S

57.473 correct N. 044 + drive cedar stake

67. Picket + enter green swamp NE SW

69.40 lv .00707 = Tang 0°-24.3° " "

76.63 fall 1.059 S of Valley Imp post

their Eng = Y. Pine 14" S 31° W 1.065

var: New W. " 6" S 77° E .566
 Flowage hrs w about .75

$\begin{array}{r} 2/76.63 \\ 2/38.315 \\ \hline 19.157 \\ \hline 57.472 \end{array}$	$\begin{array}{r} 2/.059 \\ 1.0295 \\ \hline .0147 \\ \hline .0442 \end{array}$
for $\frac{1}{4}$ " $\frac{1}{8}$	w $\frac{1}{8}$

If Valley measured in feet:

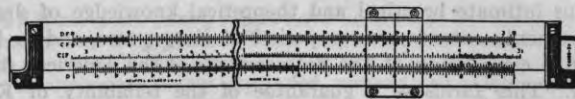
$$76.63 = 45057.6' \text{ length}$$

$$\begin{array}{r} 19.157 \\ 18.607 \\ \hline .55 \end{array}$$

$$\begin{array}{r} 1264.4 \\ 1320. \\ \hline 55.6 \text{ to more } \text{\textcircled{E}}. \end{array}$$

Since we find their post an additional 55 links $\text{\textcircled{E}}$ must assume they corrected this point twice by error — using a different Tape.

K & E SLIDE RULES.



The slide rule is an instrument for solving arithmetical, algebraical and trigonometrical problems without mental strain and in a small fraction of the time required to work them out by the usual long-hand methods. Anyone who has a knowledge of decimal fractions can learn to use the slide rule in a very short time.

K & E Slide Rules, made in our factory at Hoboken, N. J., are unsurpassed in accuracy, permanency and legibility. They have features, not found in other slide rules, which make for continued accuracy and convenience.

A variety of different rules enable a prospective user to select one most suitable for his purpose, at least expense.:

The **BEGINNERS' Slide Rule** is intended for those who desire to become familiar with the possibilities of the slide rule at little expense.

The **POLYPHASE Slide Rule** is suitable for a great variety of purposes, including the solution of problems involving squares and square roots, cubes and cube roots, trigonometrical functions and common logarithms.

The **POLYPHASE DUPLEX Slide Rule** has all the scales of the Polyphase Slide Rule, with the addition of folded scales which facilitate the handling of certain factors in computation.

The **LOG LOG DUPLEX Slide Rule** has all the scales of the Polyphase Duplex Slide Rule with the addition of scales by which problems involving hyperbolic logarithms and any power or root are rapidly solved.

The **LOG LOG DECITRIG Slide Rule** has all the scales of the Log Log Duplex Slide Rule, but with the trigonometrical scales re-arranged, expanded, and decimally divided. Vector problems, important in Electrical Engineering work, can be solved with one setting of the slide.

The **LOG LOG TRIG Slide Rule** has the same scales as the Log Log Decitrig Slide Rule, but the trigonometrical scales are divided to degrees and minutes, instead of to degrees and decimals of a degree.

In addition to the general purpose slide rules, the K & E line includes slide rules of more special character for the Surveyor, Chemist, Electrician, etc.

Every K & E Slide Rule is furnished with a complete and simple manual of instructions.

Our Slide Rule Catalogue is furnished free upon request.

