

C.C.C.

2

FIELD BOOK

364 A

Index

II

Page	Sec.	T.	R	Remarks	
✓ 1	27	38	5 E	Cruising + trav 10	
✓ 3	"	"	"	P. 10 traverse	
✓ 4	22	"	"	" " "	
✓ 6 to 11 - 21	15	"	"	" " "	
✓ 12	¹³ / ₂₃	38	4 E	P 14 "	
✓ 16	1	38	5	Camp 75 - S - plans	
✓ 19	2	"	"	Orig. Cor 1-2-11-12	
✓ 21	11	38	5	P 10	
✓ 23	13	"	"	Correcting random 4 38-5	
✓ 24 - 26	7	"	"	Random Range line 4 38-5	
✓ 28 - 34	18	"	" E	" " " "	
✓ 36 -	19	"	"	" " " "	
✓ 40 -	6	38	5 E	Random 4 S $\frac{1}{2}$	
✓ 41	2	38	5	Curves on P. 10	
✓ 43	4	38	5	Cruising for Φ - no result	
✓ 44	6	38	5	Random Φ begun	
✓ 46	"	"	"	" Φ	
✓ 51	6	"	" E	Random 4 N $\frac{1}{2}$	
✓ 53	"	"	"	Orig. Tp. Corner	
✓ 56 - 61	36	39	4	P. (17) & Orig. North $\frac{1}{4}$ cor.	
✓ 59	7	38	6	Cruising wood lot	
✓ 65	33	39	5	P. (16) traverse	
✓		4	38		5
✓ 71	29	39	5	"	
✓		30	"		"
✓		32	"		"
✓ 70	32	-	-	Orig. Sec. Cor. (NE x 32)	

Index - continued

Page	Sec.	T.R	Remarks.
71-85	29-30	39 5 E	P. (K)
86-89			" Scotchman L Rd.
90-92	21	38 4	
93	29-32	39 5	Lower Trail
95.	30	39 5	Pine L. Road
97	20-29	.	Squirrel L "
101-105	24-25	39 4	Squaw L "
106-108	4-9-16-17	38 5	} #2 Fire lane
109-110	23-24	38 4	
111	19-24		1/4 cor on Range ^{W 38} _{St.}
112-115	19+20	38 5	} #2 Fire lane
116-118	22-23	38 4	
119-121	28-33-34	39 5	P. 20
122-124	1	38 4	P. 22
125-135-139	1-2-10-11	" "	P. 17
135+142	32	39 5	Cruising
136-138	8	38 5	E+W 1/4 line
143-144	31	39 5	Approx. only
145-149	13	38 5	4W 13
150-154	12	" "	4W
154	1-2-11-12	" "	Origl Cor.
155-157	11	" "	SE 1/4
158	2	38 4	SE diagram
60	6	38 5	

Sec. 27-38-5 E.

Project 10

Sept. 21st 1933

RH + E. Gergen.

Misc. cruising in NE 1/4.

Find people post 1/4 mile W + 1/4 mile N ±
of stake for 1/2 in NE 1/4

Search for Origl 1/4 around said people post.
Fail to find any conclusive evidence.

Found possible BT scar on 24" O.P. stp
which fits with depression where the 12" hem
could have stood. This location is
about 2.70 ch. E of people stake.

Sept. 22nd 1933

Overcast to Fair 65 75°

RH Hall + Don McLeod

Measure Ely (var 3°E) on old random
4 NE 1/4 27 found. chain tape.

0.0 People 1/4 post br. N. .42

2.68 fall .18 N. of possible 1/4 cor.

15.20 Enter marsh (dead cedar + Tam)
br N + S.

Notes say 12 60 E of 1/4 ✓

22 + 27 38-5 E.

continued

19.27 fall .195 S of $\frac{1}{8}$ post found:

21.85 leave swamp SW + W.

28.40 Enter bottom

+ lay off base N. at rt L

3.56² ch.

b.s. approx. triangular.

Over river + marsh + pick up old random.

35.87[±] picket + br. marsh.

+ 1.895

37.76[±] find Post at Engl cor

22-23-26-27

this corner OK by SW and BT (all figures OK)

N. bearing uprooted.

Re-set post + place rocks around it.

No new bearings available except:

Pole 7" N53°W .56 ✓

Bunch 3" S56°E .59² ✓PC.
no var

on bank

4/23/34 Set Wis Cons. Mon

Corner is in SW cor of swamp

About 2 rods E + 3 rods N of hard land.

Near S. on random found var 6°E.

0.0 Sec Co to W. at rt L .79

11.53 to E of Cedar Falls Road

about .88 NE of my pace sta.

Book 1

✓

27-38-5 E. (P.10) 3

Continue traverse of road crossing Tomahawk
River at Cedar Falls. from staff compass
station at E. end bridge.

Pocket compass no-var. chain tape.

① N76°W across bridge 2.55 ch. ^{6.1} 2.47.30 }
1.90 }② N62°W 9.53 ^{4.48} 8.47

@ 5.53 hit E. tip of 1 acre marsh

@ 8.30 right boundary tang to
long narrow marsh to N30°E

no chance for easy curve

③ N36°W 9.33

@ 7.42 re-cross old road (NE)

x Curve 10°

④ N27°E 4.67 ^{4.16} 2.17

to approx. line Secs. 22+27

Pole 7 post? to west (var 3°E) .59

Reduced to var 2°

① N74°W 2.55 = .70

② N60°W 9.53 = 4.17

③ N34°W 9.33 = 7.73

④ N29°E 4.67 = 4.09 2.26

2.45

8.25

5.21

Kc NW

in NE

22-38-5

Project # 10

Sept 23rd 1933 Fair + warm

Rt Hall + E. Duszynski

Resume Pocket Compass + chain traverse

N^{ly} thru 22. as brushed out by
Hunt + Pinkowsky

Begin again at Sec line or sta 4.67

After starting out 10° C. at (3)

① N27°E 6.90

@ 4.25 intersect + follow old road.

② N26°E 7.00

parallel old road (2 rds W)

③ N24°E 6.75

@ 1.57 re-cross old road (NE)

3.66 " " "

x Curve 6° left.
Ext. .196 Tang. 1.943

Offsets 87' + 1.74'

④ N1°E 18.00

@ 5.472 hub found marked '10'

@ 9.21 re-cross old road to NE.

Then NW across & again

@ 17.33 re-cross do to NE

course here reads N1°W

⑤ N1°E 30.00

There is slight angle right² but compass change
in var. indicates straight course.

@ 6.00 beginning - slope

@ 9.95 \pm old grade in gully (No. S706)@ 22. Enter scattering hemlock
on summit

⑥ N3°E 5.00

@ 3.40 re-cross same road in gully (NW)

@ 5.00 end of brushing.

⑦ N4°E 9.15 ch. + set two
stakes beyond road limits.This calc. 80.00 N. and 16.21 E of
pole $\frac{1}{4}$ post (adjusting courses of
traverse to 3°E var)Course continues N4°E — then N26°W
to pass between marshes

Pace W (on var 3°E) from 9.15.

66 steps enter marsh

343 hrs swamp.

374 (record) comes out at E edge old
road on ridge.Could find no oval $\frac{1}{4}$ 9/24
24/4

Project 10

In Sec 15-38-5 E.

Pocket Compass + tape Traverse 0 var.
Continued by E. Duszynski with D. M. Lead

(Sta 7) on page 5 on assumed ± 15
being 80.00 ch. N + 16.21 ch E. of
1/4 post found for ± 22 .
calc on basis of 3' E var.

Sept. 25th 1933 - Cloudy - 65° F.
Duszynski + M. Lead. (100 tape)

⑧ - N 4° E. 125' P.I.

- 2.9' = B.C. 12°C left.

Tang 127.9'

Ext 16.84'

Offsets = 2.61 + 5.22

Length of Curve = 250'

$\{ 2313.7' \}_{ 35000}$

⑨ N 26° W

@ 265 bottom of ascent + Gr.

Swamp to W. 15' from E

400' Crest of hill (Boulder)

578 10' boundary on line also 4 others
near. Cannot avoid due to
swamps right & left

@ 688' Enter W. tip of swamp.
Extends west about 50'

735' Over same

Follow very close to W. edge of swamp
(Fill for ? dist)

850'

1385' Enter Swamp NE + SW

1435' Leave " + climb steep grade.

1640 Crest of hill + enter flat

2000' On rocky ridge (all rocks)

" End of brushing.

2130 End of exceptionally rocky soil

2313.7 P.I. (next tang. to N 21° E)

> 2158.0' BC 16°C. right (length 293.7)

Lat + dep. =

N 7° E (125) = $\frac{ca}{1894}$

= 1.87 N + .23 E

N 80.00 16.21

81.87 16.24

N 23° W (2313.7) = 35.057

= 32.27 N + 13.70 W = 114.14 2.54 E

Project 10
Sec. 15-38-5 E.

Sept 26th '33 Cloudy - cool
E. Swazynski + D. McLeod
Pocket Compass + 100 tape

⑩ N 21° E 890. P.I.

@ 155.7' E.C. (16°C)

@ 497' Jack pine tree N 67° W 50'
610 leaves flat + descend - Gr. to
800'

C 12° Tang 1.414 Ext. .205

⑪ N 54° E 244.3' = 3.70

@ 0 swamp tree SE 45'
100 beginning of neck between swamps
244.3 Edge of swamp tree N 40° W 30'

C 16° Tang 1.357 Ext. .248

⑫ N 12 1/2° E 296.7' = 4.50

@ 291 swamp tree 30° SE

C staked by eye.

⑬ N 63° E 134.1' = 2.03

@ 134 beginning neck bet. swamps
" 5' pole for P.I. " tree NW 15'

C staked by eye

⑭ N 47° E 139.4' = 2.11 P.I. 16' to swamp

@ 100 enter young Jack grove

C staked by eye ^{2.95}

⑮ N 26° E 194.5' P.I. (Swamp tree NW 30')

@ 100 end of neck + Jack grove

⑯ N 38° E 228.6' = 3.46 P.I.

@ 100 top of ridge + end of 100 + Gr.
200 bottom " " = 100 - Gr.

C 5° Tang 1.56 Ext. .106

⑰ N 27° E 529.5' P.I. = 6.02

@ 110 - 270 + Grade - Heavy young Y. Pine forest.

C 5° Tang 2.54 Ext. .278

⑱ North 347. P.I. 6.16

@ 260 - 347 - Grade + enter Swamp E+W
grove of varied pine on slope

⑲ N 11° E 172.9' = 2.62

@ 32 E old logging road + bridge
N-W line

45 br. swamp.

56 large rock tree left 22'

thence N 43° E about 100'

" N 70° E

N.B. Make one curve 20° north out of stations 18 + 20
to follow swamp neck - continue page 21

= N 11° W 7.292
N 58° E 4.963
20° C

Lat + dep. of preceding traverse
 Fee + to chain
 Course adjusted to 3° E var.

	N	E	W	N	E	W	E
(9)							
(10)	N 24° E	13.485					
(11)	N 59° E	3.70	12.372				
(12)	N 15½° E	4.50	2.01				
(13)	N 66° E	2.03	4.34				
(14)	N 50° E	2.11	.82				
(15)	N 29° E	2.95	1.36				
(16)	N 41° E	3.46	2.58				
(17)	N 30° E	8.02	2.61				
(18)	N 3° E	5.26	6.95				
(19)	N 14° E	2.62	5.25				
			2.54				
			40.78				
			21.87				
			154.92				
			24.41				
			114.14				
			2.54				

Project 10

Continued

October 4th '33 Overcast 50° ±
 R.H. with Duszynski, Genger, McLeod & Pogorelc.

Stake in Curves as noted on page 8
 Chain tape.

	Reduction to var 2'	Page 4	
⑤ 1 N 27° E N 29° E 6.90	= 6.04	3.35	
⑥ 2 N 26° E N 28° E 7.00	6.18	3.29	
⑦ 3 N 24° E N 26° E 6.75	6.06	2.96	
⑧ 4 N 1° E N 3° E 18.00	17.98	.94	
5 N 1° W N 1° E 30.00	30.00	.52	
6 N 3° E N 5° E 5.	4.98	.44	
7 N 4° E N 6° E 9.15	9.10	.96	
8 " N 6° E 1.89	1.88	.19	
9 N 26° W N 24° W 35.06	31.51		15.37
10 N 21° E N 23° E 13.48	12.41	5.27	

#	Crnoid	ch.	A.	S.	W.	=	S	W.
(67)							121.84	70.72
(68)	S 40 1/2 W	2.60		1.98	1.69			
(69)	S 46 W	2.30		1.60	1.65			
(70)	S 29 W	1.50		1.31	.73			
(71)	S 51 3/4 N	3.80		2.06	3.20			
(72)	S 78 3/4 W	3.40		.66	3.34			
(73)	S 69 3/4 W	1.30		.45	1.22			
(74)	N 78 W	2.90	.60	.38	2.84			
(75)	S 69 1/2 W	1.10			1.03			
(76)	West	3.00			3.00			
(77)	S 67 W	1.70		.66	1.56			
(78)	N 83 3/4 W	1.80	.20		1.79		130.14	92.77
(79)	N 69 3/4 W	2.50	.87		2.34			
(80)	S 80 3/4 W	1.70		.27	1.68			
(81)	"	1.00		.16	.99			
(82)	West	1.40			1.40			
(83)	S 71 1/2 W	1.20		.38	1.14			

P. (14) in 13 + 23 38-4 E.

Resume from page 158 in Vol 1.
traverse of old road

(84)	S 88 W	2.30		.08	2.30			
(85)	N 54 3/4 W	3.00	1.15		1.63			
(86)	N 38 1/2 W	4.40	3.44		2.74		125.57	106.99 W.

Converting into normal course = 121.72 111.52 W.
 or calc 1/4 S to E 172 d. N + 850 d W of 26.85 = 196 p. 22.0 E.

P. (14)
 @ Rd. Continued

38-4

Sta 208.664	EC 10°	foot of sand hill
+ 2.018	Tang.	S 33° W.
210.682	B.C.	5° C. left.
2.20	" "	length
212.882		
20.05	Tang.	S 22° W.
232.932	B.C.	5° C. right.
4.70	" "	length
237.632	EC.	
9.794	Tang.	S 46° W.
247.426	B.C.	1° C. left.
4.30	length	" "
251.726	EC.	" "
35.984	Tang.	S 42° W.
287.710	B.C.	8° C. right.
3.69	length	" "
291.400	EC.	
3.16	Tang.	S 71½° W. -6.
294.56	B.C.	24° C. left (down draw)
1.96	length	" "
296.52	P.C.C.	P. R. C. 24° C. (Right.)
2.104	length	" "
298.624	EC.	
.23	Tang.	S 75° W.
298.854	B.C.	16° C. right to intersect fire lane
1.76		
@ 300.61		

15

Summary of (14)

Paced dist from junctn with 2 in	SE-SE	Sec 4-38-5	ch.
to End of 11° Curve	=		61.64
" " " in NW SW 4			
Tang. (measured) S 85° W P.C. - 2912'			44.12
" Sta.			105.76
" "			21.17
" "			136.93
" "			41.78
" "			168.71
To approx line of Secs. 5+6 (38-5)			
Hence by meas.			300.61
Total			469.32
" (14)	80		5.86 miles

98.426
 168.71
 267.136 sta. intersect old Crouch Rd.
 - 469.32 Total
 202.184 ch or 2.52 miles to #2 from junctn old Crouch Rd.
 or 13% of (14) yet to be stumped & graded.

Secs. 1-2-11-12

38-5 E

Oct 16th 1933 Raimy. 60° -
RH Hall with Duszynski - Genger. M-Lead +
Pogorels

Identify Orig. Cor. to Secs. 1-2-11-12
by Orig. Y. Pine now a 16" tree.

Facing was exposed by chopping years ago
"38 N R 5 E S 11" is plain.

Chopped in but lower part of scarf was rotted.
This tree faces NE instead of SW so I conclude
the Govt. Surveyor reversed the bearing by
mistake. Set new post

Pocket Compass N 51 E 52 lbs from Bearing
no var.

Other post found at cor. of timber is
about 8 lbs too far from Bearing. & does
not agree with anything.

New Bearings. Pocket Compass Over.

}	Y. Pine 14" S 14 SW	.383
	" " 26" N 87 W	.302

On NE shoulder hill at N 6 x State timber
set flag. .65' S + .7' E of post.

March 9th 1934

See entry

from page 9
 23 (N 57° E 4.963)

October 5th 1933 R.H. + regular crew of 4

(24) N 19½° E 15.42

@ 1.697 EC 10°C.

> 9°C. left. Tang. 1.587 Ext. 195 Rad. 6.373

(25) N 8½° W 20.156

> 2°C. right Tang 1.50 Ext. 039 Rad. 28.65

(26) N 2½° W 4.078

> 6° Curve (right) Tang. 1.42 (Ext. 106) Rad. 9.55

(27) N 14½° E 3.584

> 2° Curve (left) Tang. 1.627 (Ext. 046) Rad. 28.65

(28) N 8° E 8.777

Oct. 6th Same party Fair 60°

> 1° Curve (right) Tang. 2.50 (Ext. 055) Rad. 57.29

(29) N 13° E 11.106

> 3° Curve (right) Tang. 1.671 (Ext. 073) Rad. 19.10

(30) N 23° E

@ 8.357 Intersect Sec. line between 10 + 11
 1.02 ch. S. of North ¼ corner.

→ for ¼ cor see Book 1 page 40

- (30) N 23° E. 9.075
 10° C. left. Tang. 2.52 (Ext. 53)
- (31) N 25° W. 10.59 Rad 5.737
 12° C. (right) Tang. 1.124 (Ext. 156) Rad 4.783
- (32) N 1° E 5.80
 @ .31³ Orig. Cor 2-3-10-11
 to S 87° W .675
 2° Curve left. Tang. 2.00 (Ext. 07) Rad. 26.64
- (33) N 7° W. 5.504
- 34 N 53° E

P.I. 12° C. (opp. Sec. Cor) ch.

{ E Y.P. BT N 24 W .51
 x Birch N 82 W .246

P.I. 2° C. N of cor.

{ x Birch N 80 E .248
 x Pople S 48 E .369

P.I. 60° C at Sand hill

{ Hub on True Sec line S 60 W .771
 random S 78 W .225
 (62.78)
 x on Birch N 19 W .235

P.I. 30° C N. of Sand hill

{ x on 3 Pople N 65 E 19.65'
 do S 65 E 27.95'

P.I. 5° C on S slope rock hill

{ x on popple S 50 W 10.5'
 do N 48 W 23.4'

BC. x Birch N 53 W .382

E 13-38-5 - correction

Oct. 18th 1933 Fair 55°

Rt Hill with Duozymaki + Gorges.

(M^r Lerd + Pogorek on sick list)

Correct N 1/2 of line + set 1/4 + N 1/8 as in B.I. P. 61

Observed Sun 3 times at 15.42 S of N Ex 13. on
 corrected line.

Results indicate some lapse in alignment
 on random E 12 (crossing Tambeskin swamp)

Avg of 3 obs. makes E 13 S 0°-23° E
 instead of S 0°-58° E

W. Sec. 7-38-5 E.
" N $\frac{1}{2}$ "

Random Range line - North

October 17th 1933 Fair 50°
R.H. Hall with Duszyński - Gajger + Pogorski.

0.0 Our new post at Orig NW 1/4 #7
N. on random (var. 2°-20' E)

Observed Sun at post.

① 8:59 Am. Cent Std time
vert \angle 23°-28'
Az. 134°-04'
(calc 134°-10')

② 9:02 Am
vert 23°-44'
Az. 134°-44' (calc 134°-40')
cured E

5.79 ch. Hub + observed Sun. .005

① 9:40 Am. alt: 28°-09.5'
Az: 144°-09. (calc 144°-10.5')

② 9:43 Am alt: 28°-25'
Az 144°-50.5'
calc 144°-51'

N.B. -
Average of 4 obs gives N 0°-01' E as true
course of random

6.84 Intersect of #14 road
 \angle to SW = 21°-44' \pm

12/6/34 Z-368 = 486.3' Set line marker "486.3"

15.27 \pm fall .95 \pm E. of blazed Norway 15 yrs (cat.)
15.883 hub (var here 1°-55' E) .013

20.00 correct E .017 for '8 @.
W P 5 S 52 1/4 383
232 40

2 B Oak 5 S 61 40 E .28

24.064 hub (var do) .02
36.727 " " do = 1°-55' E .0305

40.00 hub
Fail to find Orig NW x 7
Many stumps - far gone - burned.
Difficult to find which 2 were
"only trees standing" 73 yrs ago

Found a post at about 41 1/2 ch + a little W
+ blazes E & W about opposite this post.

40.00 at \angle E .033 for NW x 7
Plant Scribed Cedar post.

True Az
Var. 1°-17' E { W. P. 17" N N 82°-40' E 3.216
9/28/34 { W. P. 16" N 53°-52' W 2.779

Resume on page 40

only trees near

44 7 - 38 - 5
 S^{1/2}
 Oct 25th 1933
 Fair 30° Snow 9" deep.
 R.H. Hall with Ruszynski, N^o Lead + Pogorek.
 Transit over our post at Owl / 1/4 S.
 Orient it on random line N. 0°-01' E.

Var = 2°-30' E.
 Bearings - Owl S53°-20' E Rec. (26) 17.2
 New W. Pine 8" S 40°-10' W .129 8.5
 " " " 10" S 62°-35' E .733 48.38

Produce same random (S 0°-01' W)

0.0 1/4 S. post
 3.65 hub (1/4 E of W edge) .014
 9.869 " .039
 (5.50 stake at records for 10" Hem).022
 17.716 hub .07
 19.636 " .077
 20.143 nt L E .079
 .507

4/20/37 Set 4" x 6" x 6" Pitch post for 1/8 S.
 On SE shoulder - Pond bro E.

25.31 Hub
 (27.95 Tally stake at rec. for 12" Hem.)
 31.78' Hub - even with N. edge spec marsh W/H
 var. here 2°-56' E .125

33.00 side hill - swamp bro W .20 ±
 35.74 Hub .14
 37.422 " .147
 39.168 " on N. edge plateau .154
 about 3 rods E of
 shoulder do.

40.00 Tally stake by eye on line.
 .832
 N.B. all stumps here are large (pine).

N.B.B. Since there are many down + rotted
 Hemlocks + few pine 1/2 to 2 ch E of tally 40
 + since D. Jossart says Wm Schlect Talvays
 claimed cor to be E of here we
 do most of searching (several hours)
 at that point. However there have been
 several hemlocks in the immediate
 vicinity of tally 40. Very far gone.

Random
18-38-5 E.

40°

Oct. 30th 1933 Fair. 2" snow melting fast

R.H. Hall with Duszynski, Ganges. W. Lead. Pogoda.
Search again for orig. NW cor. no results.

Continue same random (50°-01 W)?
" " meas.

40.00 tally for said NW cor. 18

40.285 at 2 E .158 for Cor. 7-12-13-18

4/23/37 Set brass topped Co. Mon (new type)

Var 3-106
T.A. { Jack 9" S 43°-20' E 1.566
Jack 5" S 21° W .56

Read above var. on random - read bugs. magnetic.

46.43 Hub N. side gully .182

48.55 Picket at rec. for line tree .19
Notes call for 20" Hem.

48.937 Hub. (on W. edge of do) .192

54.526 " " .214

56.379 " on S shoulder of ridge
(Var. 2°-18' E) } .221

18-38-5 E.
continued

29

Oct. 31st '33 Overcast to fair 65°

Same party

Look some more for NW cor 18.

Then continue random

56.379 Observed Sun (with vernier set on 180°-01 on random)

① 2:53 PM Standard time

alt = 16°-33' - 01' inst. out.

AZ = 228°-24'

Calc " "

60.428 at 2 E .237 for 8 S.

4/23/37 W. Pine post.

Var { Pople 4" S 81° E .417

2°-30' E Peak of rock S 9° W .694

Same as line. 82x3'

60.13 Hub on shelf. (N. slope)

62.394 " on N shoulder. .244

65.21 " " SW " .256

N side large pot hole

4W 18-38-5

65.21 Staewz Am.

(1) 1:51.5 PM

alt. $23^{\circ}22'$

Az. $214^{\circ}09'$

(calc)

(2) 1:55 PM alt. $23^{\circ}04'$

Az $214^{\circ}51'$

(calc. ")

67.82³ Hub in E edge bottom .266

Small swamp bet NW 1st 2 ch.

72.81 Hub on rim SE of swamp. .285

(var. here $2^{\circ}20' E$)

80.570 at E .316 for $\frac{1}{4} S 13/18$

Set brass topped

Monument + post.

no bings near.

4W 18-38-5

31

November 1st 1933 Foggy 50°

R# + same crew (Dwozynski, Geiger)

M = Leod + Pogorek

75.34⁶ Hub on SW shoulder - steep slope .295
(var. here $2^{\circ}34' E$)

77.40 Hub + enter E arm of swamp .303
about 1 ch. from E end do
Swamp bet. E + NW.

80.01 Hub + look for W $\frac{1}{4}$ cor 18 .314

80.067 fall .01² E of possible $\frac{1}{4}$ cor.

* large Hem stump but find no
post hole more positive sign of
the birch.

— Do not know whether we are near
the line or W. of it.

N.B. after lunch I search in said arm of swamp
+ find old down cedar in our line at
about 79 ch. old flage both sides.

* July 9th 1936 Examine location + find said
stump at 80.07 to be Spruce.

The probability is that $\frac{1}{4}$ was near
80.00 if y. Birch grew there - low ground.

81.304	Hub on ridge	.319
82.25 ±	Enter Swamp. E+W	
82.543	Hub in "	.323
83.70 about	dead y. Birch 74" spotted N+S.	
84.60	fall .10 ± W of very sd blazes on tamarac stub	
85.109	Hub in Swamp.	.334
86.50	leave "	
87.384	Hub tally stake on ridge	.342
89.004	Hub on 2nd "	.349

Continue November 2nd '33 Overcast 40°

Same crew

95.00	Swamp hrs E 3 rods ±	
95.712	Hub (Var. 2° E) B & about .10 N. of hub	.375
96.30	To marshy draw SE + NW	
98.50	leave do	
100.15	Hub on low ridge narrow marsh on E for NE + SW (Creek bottom on W. side)	.393

US record. (Reversed)

80.00	1/4 S.	
86.00	lv. swamp.	
108.67	Ham 6"	
120.00	Sec. cor.	
128.69	Maple 4"	
147.61	W. Pine 6"	
158.50	Enter Swamp E+W.	
160.00	1/4 cor. between 19 + 24	161.14

Totals

= W 7/4 N to Tp. cor.	111.471	161.14
" S to W 7/4 19	161.141	-40.
		121.14?
		-40
		81.14?
3x80 + 30.65 =	272.612 meas.	
	270.65 Rec.	
270.65	1.962 surp.	
	.00725 " per ch	= .29 per 40.
		.297 - "

This indicates W 7/4 is practically on pro note N from W 7/4 19 but physical features on 40 6 contradict this.

Nov. 2nd (continued) CW 18-38-5

100.713 st = E. 39^o 7' 8" V 1^o 36' E
100.15
563 Set I.P. + foot.

2/2/38

V 0° W.P. stp. 20" S 14 W .33'
marsh to E 1 rod.

103.25 tang. of SW end same marsh to NE P

106.11 Hub + lewz bottom .416

108.67 fail to find 6" Hemlock

110.57 Hub .434

112.449 " on W. brow High land .441
overlooks bottom W.

120.021 right angl W-095 to
possible SW cor. 18

The two pine stumps check OK:
but are larger - than 12" &
rotted - Can not identify the
tree altho rotted tree wood
at right loc. looks OK

The hem is NE instead of SE
& uprooted. A y. Pine stp to
SE about .08

120.856 st = E .474 for Sec. Cor.

120.216 Hub .411

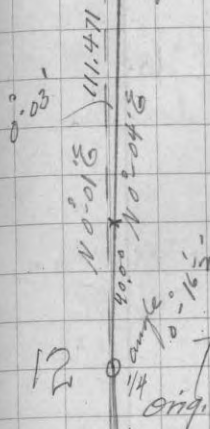
(set B.S. .005 E @ 8" W.P. ahead)

Diagram to

120.856 st = E (B.S. on line N) .474 for 13/18
Cor to 24/19

Top Cor. (orig)

2/2/38 Cloudy 75°



Set long brass capped
County Mon + r
cedar post (along side)

Mon 13" exposed

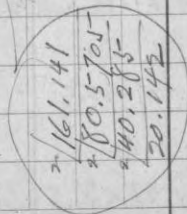
Var 2° E on Meridian ch
(Bearings on oval
W. Pine 7" N 21 W .344

y. Pine 11" N 61 1/2 E .476

W. Pine 9 S 40° E .287

0.135

50° 12.5 E



1/4 24 0 19
orig.

W 19-38-5 E.

November 3rd 1933 Overcast. Sunny 25°
R.H. + Amc crew (Am only.)

122.927 Hub Van 2°-18'E .482

tract transit 4° E of do.

123.02 W. Pine 8" on random line

Continue on said .005 ch. offset

127.05 Hub on " 498 - .005 (.493)

130.75 " " " 513 - 5 (.508)

135.697 Tally picket .. 532 - 5 (.527)

141.00 at 2 E .548 for 1/8 S.

141.78
123.02
18.76

141.784 Hub (Van 2°-09'E) ⁵⁵⁶ (.551)

Observed Sun ^{30°} Temp

① 10:32 Am alt. 27°-12' Az 160°-53.5'

② 10:35 " " 27°-22.5' 161°-44.5'

③ 10:39.5 " " 27°-37.5' 163°-00'

watch time (3' float)?

W 19-38-5 E.

37

145.947 Tally picket 572-5 (.567)

151.48' Hub in N. edge old opening ⁵⁹⁴⁻⁵ (.589)

157.93 ⊕ Swamp/sanger Fire Lane #2
hs NE + Wly

161.141
154.131
7.010

158.131 Hub .62 - .005 (.615)

159.80 Enter Swamp E+W.
Are west of old line

160.00 tally peg (not lined).

160. fall W. of orig 1/4 cor.
bet 19 + 24

W. Jimmie finds the cor. 2 old posts
agreeing with remains of both BTs
one has good facing.

Late for noon meal. Will tie in next trip.

180.8705
20.1423 = 1329.4'

from page 11

161.141 at 2 E .627 to orig 1/4 cor.

80.5705
60.4278
140.9983

-.00289 - Tang. 6°-13.3'
.00292

13.5'

1 1/2 19-38-5

39

May 3^d 1935

PM.

R# Hall with Pitt + Bairik CCC

Re-meas random $\frac{1}{4}$ from hub

158.131 which I check roughly with tape +
compass by comparing with our
sign post (meas. direct from 1/4.)

Find surp. of .067 in the 37.915 to hub ^{120.216}

As this re-meas was mostly up hill
+ no plumb bob used, will consider
1st meas. OK. (2nd meas. pro-rated well)

Search again for NW cor. no luck.

Most of fine stumps were more than 12".

I do not believe the two stumps I had selected
in '33 were the bearings.

It is singular that corner evidence along this
line should be so meager.

Random 4W-G-38-5

November 6th 1933

Overcast to Snowy 15° to 20°

R.H. Hall with Duzgynski + Genger only

Continue same random range line north 10°-01'E

from sta 40.00 page 25

40.00 on temp SW x G

54.50 fail to find line Norway mated

55.889 Hub (var here 1°-42'E)

all open - dead people .047

60.00

picket lined by eye probably 1/2° E of line

Correct E. .05 for 1/8 S.

68.25 Summit

69.00 Pitch hub (5/8 x do) .058

71.25 Enter Swamp E + SW

77.40 Creek .15⁺ wide

80.00 Tally by eye - snow storm wet bottom

fail to find orig 1/4 cor.

Continue page 51

P. 10

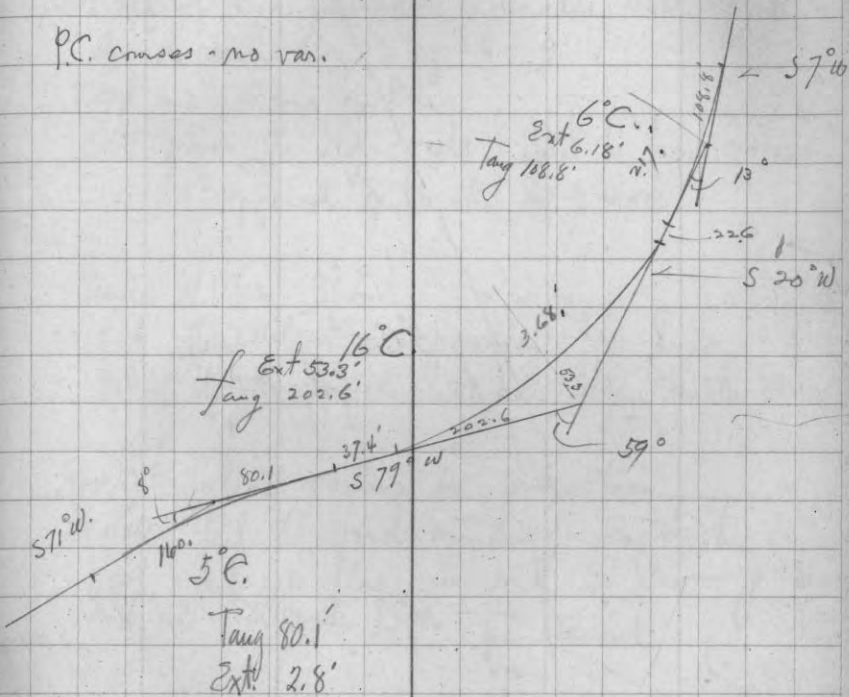
Curves on N. end. in Sec. 2-38-5

Nov. 7th '33 Am. R.H. + H.J. Mc Ginnis

Fair 20°

Stake in 6°-16° Curves etc as follows where
mad leaves tang. off #2

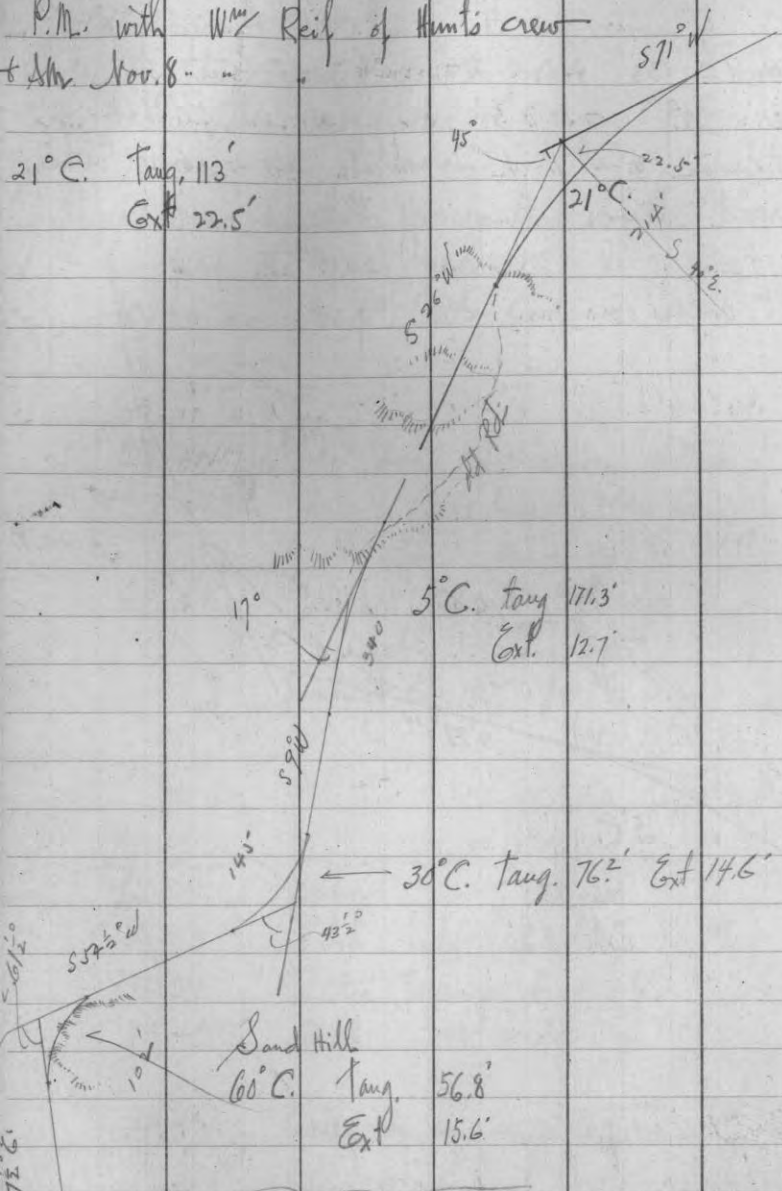
P.C. crosses - no var.



P. 10 continued

P.M. with W^m Reif of Hunt's crew
to Mr. Nov. 8

21° C. Tang. 113'
Ext. 22.5'



S 72° E

Also connect with 12 ch of line between Secs 10 & 11
38-5

Cruising along
Nov. 8th P.M. Overcast.
Pace S. (var 3° E) on assumed line between
3+4 from angle point on traverse of #2

→ Plat of this traverse indicates 550 steps &
should reach Cor 3-4-8-9
Find no signs of line.
569 paces to old road: + fail to find corner.
Supposed to be .16 S. of road

Thence W. (on 3° E.)
904 steps to Swampcrazer Fire Lane
914 blaze a pole at E. edge thick Swamp

Nov. 9th alone continue in snowstorm.
+ 948 fail to find anything: very thick
1169 set up flag. = 100 ch. in Swamp as
per record.

Find one blaze - recent about a chain W. of here

Thence S.
144 steps to old Creek Road at old camp.
147 mark a 3" W. Birch

£ Sec. 6 - 38 - 5 E.

November 10th 1933 Fair. 18° to 25°
 R.H. Hall + Emil Gergen
 Run N. on random from Engl cor 5-6-7-8
 Set + referenced Book 1 page 134 Aug 30th
 by setting θ on hard ground 1.37 1.7 corr.
 on course of 3° E variation in line with
 Sec. Cor.

Random 1/16
 1/0-16/6

0.0 Engl. Sec Cor in W. end swamp.

68 Leave Swamp - hrs. SE
 1.369 Transit station
 thence meas to summit on slope angle
 $16^{\circ} - 12'$
 Cos. " " .9603
 Meas. on slope $\times 1.512$
 1.453 to picket
 - .033
 + 1.42 1.420

2.789 Hub on ridge
 4.50 ± Bottom of gully Estw
 4.816 Hub
 5.682 " on ridge
 var. here = $2^{\circ} - 45' E.$

10.198 Hub on ridge SW of gully 16 + NW
 12.655 " (var. $2^{\circ} - 32' E.$ here)

Absence Sun
 Transit oriented to 180° = line South
 Temp $25^{\circ} F.$

① 3:08 P.M. Cent. Std. time
 alt obs. $11^{\circ} - 27'$
 Az $230^{\circ} - 30'$
 → Calc " = $230^{\circ} - 14'$

② 3:10.8 P.M.
 obs. alt $11^{\circ} - 10'$
 " Az $230^{\circ} - 56'$
 → Calc. " = $230^{\circ} - 40'$ ✓

17.26 £ line of # 14 SW
 17.872 Project # 14 on curve
 line picket

Enter Swamp.
 Hub on island of hard land

Resumed on page _____

∴ Course of random
 appears to be S. 0°-16' E

Random \pm Sec G-38-5 E.

November 13th 1933

Overcast - Snow from 1 PM on $+10^{\circ}$

R.H. Hall with Gager + M^cLeod

Set transit at post - orig. cor 5-6-7-8

Sight $N 0^{\circ} 16' E$ \pm on new cor \pm

Our new bearings read: (Y. Pines 12")

Mag. var $3^{\circ} 18' E$ } $N. 76^{\circ} 55' W$.52
 $568^{\circ} 23' W$.945

Run $N 89^{\circ} W \pm$ since US notes say they varied $S 1^{\circ}$ (1.41 ch.)

0.0 Orig. Sec. Cor.
 .40 leave swamp in W. extremity
 1.529 Hub .06
 7.055 " .275
 10.226 " broken ridges 185 .398
 14.773 " .575
 15.22 BS
 17.555 Hub .684
 18.22 E Truck trail project 14 .709
 18.90 Enter swamp $N \pm S$.
 18.032 Set white post + aluminum markers at E edge road marked 1190

17568
 463
 18032
 = 11901 12/6/34

\pm G-38-5

Continued

November 14th '33 $+16^{\circ}$

RH Hall + R. M^cLeod

19.89 Tally picket in swamp .774

20.189 at \pm $S 78^{\circ}$ for $E \frac{1}{8}$ cor.

12/6/34 Set scribed cedar post:
 Var $2^{\circ} 21' E$ } Spruce 5" $S 1^{\circ} 50' W$.947
 1989 hrs $N 20 E$

23.00 leave swamp $N \pm S$.
 26.74 Hub 1.041
 31.372 " Hilly 1.221
 36.92 " 1.438
 40.00 Tally picket \checkmark

40.377 at \pm $S 1.57^{\circ}$ for $\frac{1}{4} S$.

12/7/34 Set scribed cedar post

Var $2^{\circ} E$ } W. Pine 4" $120^{\circ} 25'$.572
 $559^{\circ} 35' E$
 do 5" $322^{\circ} 22'$ 1.102
 $N 37^{\circ} 38' W$

3122
 1222
 2480
 1600

40.277
 36.92
 2.45

~~483.24~~ true hrs $\checkmark 40.408$
~~20.810~~
~~18.032~~
 2.778 beyond w. post $\checkmark 2.172$

6-38-5

Continued

November 15th '33
Overcast, mostly 0° to +14°
R.H. Hall + D. McLeod

45.932 Hub 1.788
49.60' " ± leave plateau 1.931

58.864 Hub 2.292
59.687 4' stub of poplar in line 2.323

60.566 at L of 2.358 for 1/8 S.

87° Sd scrubbed cedar post-in gully

Var 2° E
true Az

W. Pine atp 20° = $\frac{131^\circ - 20^\circ}{548} = 49^\circ$ ✓
y. Pine 4" = $\frac{309^\circ - 35^\circ}{150} = 298^\circ$

in hollow

64.22 Hub - on W side 2.50
+ enter oak + poplar flat

Appear to be falling N. of
con. location.

12/10/34 Brush out Connected \$6
@ about 63 ch. fall about 3' S of
14" db of y. P. with old flazes.

6-38-5

49

Continued

November 16th '33 P.M. only
Fair +20° 7" snow
R.H. Hall with E. Genger + D. McLeod

70.055 Hub (var. on 0° Az. = 2° 54' E
probably = 2° 12' E)

83.223 Hub
83.228 Intersect Random Range line
at sta 40.

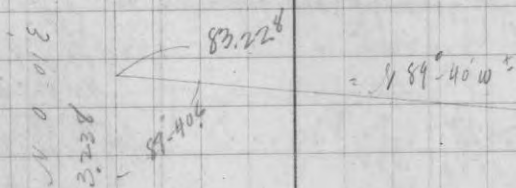
+ 3.238

43.238 N. of sight W. 47

Turn angle E to S. randoms.

- ① 89° - 41'
- ② 179° - 20.5'
- ③ 269° - 02.5'

COE = 89° - 40.6' ✓



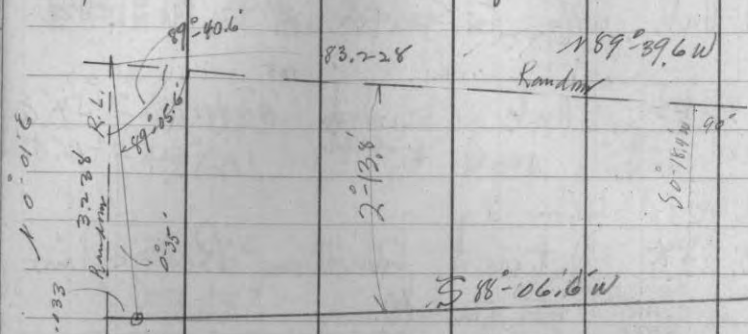
Random
40 ch.

43.23
40.40
3.83

82.40 ch.
13.23 ch.
19.4 ch.
1.13

11. Remains
154 ch. of 40.40 ch.
on 172 59 43.23

Calc. Dec 5th 1934 after abandoning hope of finding evid. evidence of $\frac{1}{4}$ + SW x. Could not find them last summer in bare ground.



$$\begin{array}{r} \cos 89^{\circ} 05.6' \times 3.238 = .051 \\ - 83.228 \\ \hline 83.177 \end{array}$$

$\therefore 83.177$ at $\frac{1}{8}$ S. 3.238 to SW x cut by R.H.H.
 $.03893$ - Tang. correction = $2-13.8$

$$\cos .99924$$

\therefore True length = 83.24

Rec. 83.40

$$\frac{83.40}{.84} \text{ corr. } (.01019 \text{ per } \times 40 = .408$$

$$\begin{array}{r} 40.408 \\ 40.377 \text{ on random} \\ \times .03893 \\ \hline 1.572 \text{ correct} \\ .786 \text{ at } \frac{1}{8} \text{ S} \\ \hline 2.358 \text{ at } \frac{1}{8} \text{ S} \end{array}$$

$$\begin{array}{r} 2 \overline{) 40.377} \\ 20.1885 \text{ } \frac{1}{8} \text{ S} \\ \hline 60.5655 \text{ } \frac{1}{8} \text{ W} \end{array}$$

$$\begin{array}{r} 89-41.6 \\ 2 \overline{) 13.8} \\ \hline 77.58.4 \\ 176.00. \\ \hline 88-04.6 \end{array}$$

See
Page 60

Continued from page 40 —

November 21st 1933 Overcast 30

Ray H. Hall with Don McLeod

Marshall Colson + Frank Koszeniski

transit at 69.00 + line in sta. 80.00
 (N. of sigl $\frac{1}{4}$ Sec 7-38-5)

Continue $10^{\circ} 01' E$? - on same random
 88.64 $\frac{1}{8}$ S. old winter road ($\times 70^{\circ} E$) + SW
 89.00 P.S. picket

rec'd photo to E.T.W.

face blaze W-S-E to W 2nd +

\rightarrow Evidently some one came S 20 ch. from
 to line!

95.00 line picket $.079$

marked on tree N. to opp.
 (Was $2^{\circ} E$ in swamp.)

80.00 correct E. $.067$ for $\frac{1}{4}$ cor.

100.53^c correct E. $.084$ for $\frac{1}{8}$ S. \checkmark

Random 4-6-38-5

103.30 br. Swamp E+W (Rec. 98.50)⁰⁰

steep slope

Pines 15" but no blazes

105.17⁶ Pitch hub at top of rise^{.098}

109.11³ Hub + quit for night^{.091}

(Nothing at 108.35 but find
line tree near 109.25?)

November 22nd

Smoky 25°

Same party

109.15⁵ fall 44" W. of line tree

Scar + 2 notches on N. side

S 1/2 of stub burned away.

-Descend into bottom from tree

111.47¹ right angle E. 093 to

Engl. Tip corner

.00083

= Aug. 0°-02.9 fall W.

Engl. Cr. to Tps 38+39 N.

53

Ranges 4 + 5 E.

Set pitch post 5 1/2" x 6" x 5' by remains
of the 4 hemlock Bearing trees! The
SE + NW ones show a notch, very far
gone. Dig but fail to find post hole
altho we did find what appeared to
be a post at surface of ground.

Approx. true Courses - Mag. var 2°-05' E.

Engl. locations of bearings - (all down)
as near as can be ascertained:

S 23° E	.17
S 35° W	.25
N 66° E	.38
N 9 1/2° W	.31

New:	W. Pine 4°	N 44° W	.246	16.24
	N "	7°	N 74° 20' E	.629 = 41.5'
	N "	5°	S 33° 10' E	.791 52.2
	N "	6°	S 48° 25' W	1.19 78.54

Run West on random at 1-38-4 by 8° off
random range line. About 9 ch. & quit for
the night.

G. = hub

111.47
109.15
103.30
5.87

109.15
103.30
5.87

109.15
103.30
5.87

111.47
109.15
103.30
5.87
Rec

July 10th 1936

W	6+7	38-5		
Comment	—			
N. from Engl	W 1/4 7	as run		
Meas.	Rec.	natural features		
71.25	71.00	Enter Swamp,	.25 surp.	
77.40	77.50	Creek,	.10 short.	
103.30	98.50	beave "	4.50 surp	
			or 20 short	
109.15	108.36	Line tree	.79 surp.	
111.471	110.65	Tip. cor.	.82' surp.	

110.65) .821 (.00742 surp per ch.

P.R.

∴ 71.25	x	"	=	.528	=	71.53
77.40	x	"	=	.574	=	78.07
98.50	"	"	=	.731	"	104.23
108.36	x	"	=	.804		109.164 ✓

Since our meas. to Swamp + creek are OK we assume all variance in meas to be N. of creek.
Therefore I will correct corners into line but set record N. of 1/4 7+12.

36-39-4 E'

Prelim. traverse old road P. 17

Nov. 23rd '33.R.H. Hall. H.J. M^r Ginnis + A. Knutson.

Distances paced only (assume 93.1 per ch.)

Courses P.C. set on stake - 0' var.

Commence on Shafer's road about 100'

NW of " arch entrance.

(in NW NE 36)

①	S 59° W	152 steps =	6.58 ch.	t
②	S 71° W	159	6.54	
③	S 72 W	156	6.78	
④	S 66 W	156	"	
⑤	S 54 W	134	5.80	
⑥	S 64 W	138	5.98	
⑦	S 72 W	73	3.16	
⑧	S 61 W	89	3.85	
⑨	S 50 W	68	2.96	
⑩	S 70 W	96	4.16	

thence SE 1/4 on old road

NB - for extension of Pine L. Stone L. Rd. see

M^r Ginnis talum book 11/23/33

57

⑪	S 48 1/2° E	105	=	4.55
⑫	S 51° E	58		2.51
⑬	S 21° E	32		1.88
⑭	S 12° E	82		3.55
⑮	S 23 1/2° E	47		2.03
⑯	S 35° E	75		3.25
⑰	S 35 1/2° E	101		4.38
⑱	S 17° E	69		2.99
⑲	S 3 1/2° E	134		5.80
⑳	S 23° E	80		3.46
㉑	S 37° W	34		1.47
㉒	S 76° W	71		3.07
㉓				

Nov. 24th '33 Hall + M^r Ginnis

⑳	S 41 3/4° W	43		1.86
㉑	S 20 1/4° W	100		4.33
㉒	S 36° W	137		5.94
㉓	S 29° W	130		5.63
㉔	S 51 3/4° W	88		3.81
㉕	S 58° W	39		1.69

Post found for 1+2-35-36 facing on sing. B.T.
for N. 10° W 24 = 1.04

Sec. 7-38-6

(29)	S 29½ W	67	=	2.90
(30)	S 21 W	108		4.68
(31)	S 29¼ W	49		2.12
(32)	S 19 W must follow	97		4.20
(33)	S 25½ W	79		3.42
(34)	S 29¾ W logical	128		5.54
(35)	S 16¾ W	80		3.47
(36)	S 29½ W	111		4.81
(37)	S 35 W	40		1.73
(38)	S 24¾ W	90		3.90
(39)	S 19¾ W	137		5.94
to old camps.				

Swamp crossing near here involves 109 steps
of swamp fill

Crossing.

November 25th 33

Rainy & wet 5" snow

R.H. Hall & Harry Ahlborn

Pace 64 from Orig. NW x 7. (0°-40' W var)

Calc 23.1 steps = 1 ch.

105 } N. peak of open swamp
145 }337 fall 1½ steps S. of an old post ✓
+ set up flag.740 about beginning of swamp SW + NE
797 = rec. indep.

803 HH plashing & enters firm ground

868 E Pinkowiskis wood road NW + SE

997 Cross another " " N + S

1259 Set temp flag for E ½ W
in N end swamp

1715 Intersect our random E 6 (7)

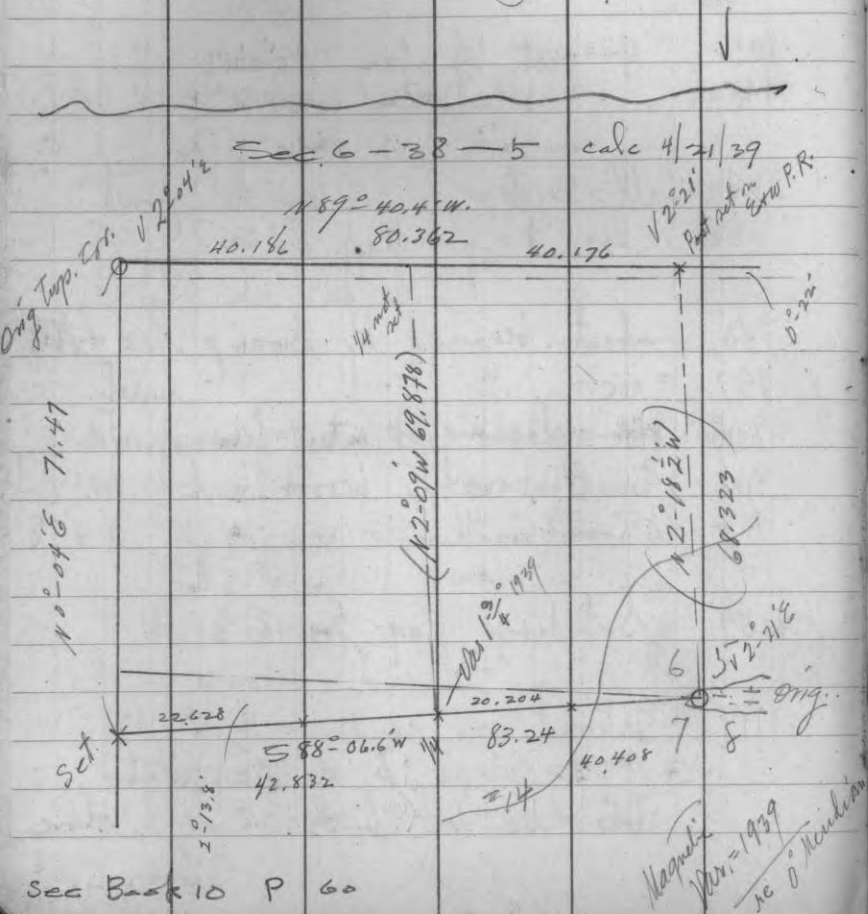
32 steps S. of temp stake

Stake = rec. dist S. of MC on N. shore

Silver L. ↓

P.H.
Pace S. on about 2nd Evan
from old post found (@ 33 steps) W 1/4 #

Find then blazes on our course
462 begin picket line E thru Swamp
+ over ridge - possibly 15 ch.



Project (17)
November 27th 1933
Overcast 25° 5' snow
R.H. Hall with M^r cod: Colson: Kaszenski

Find Orig. 7 S. cor. between 35 + 36
North bearing OK but old stake found does
not agree.

Set new tamarac post by record course +
distance from BT this agrees with stp.
of other tree - no detail on this - badly rotted.

More 7' galvanized pipe found to correct
location. — No good new blgs near —
Run picket line E. (on 2nd Evan) chained
0.0 Orig 1/4 cor.

.50 ch. old logging road NW + SE
2.00 hr. swamp NE + SW
9.008 picket
14.96 to present Pine Lake Road
(Shaper's road)
= 987.4

1. there in E road S 67° W. 1.00
2. " " S 62 1/2° W 6.572
@ 4.50 BC 5° E. left + leave road
" P.I. SWP stp 22' N 10 W .24
" " " 14' N 41 E .30'

P. 17 in 36-39-4

P.C. no var

- ③ S 42° W 34.507
 @ 2.072 E.C.
 @ 30.795 BC 3°C left. - P.I. ^{ch.}
 (Cross old road near E " ") P.I. 5 S 41 W .152
 " 4 S 51 E .598
- ④ S 20 3/4° W 16.133
 @ 3.712 E.C.
 @ 13.747 BC 7°C left around swamp
 " P.I. { P. stp. 20 N 2 E .641
 " " 14 S 51 W .467
- ⑤ S 11 3/4° E 12.27
 @ 2.886 E.C.
 @ 10.179 BC 3°C night.
 P.I. " Birch 3° N 72 W .40
 " 3° N 44 E .222
- ⑥ S 3/4° W 8.722
 @ 2.091 E.C.
 @ 6.382 BC 16°C night
 P.I. WP stp. 10 S 7 E .272
 do 18 N 74 E .153
- ⑦ S 67° W 6.375
 @ 2.34 E.C.
 @ 4.892 BC 16°C left. P.I. Birch 3 N 80 W .518
 @ 5.39 old sleigh haul 5' deep 14' wide P.I. 4 N 17 W .593
- ⑧ S 22° W 5.796
 @ 1.483 E.C. = Sta. 80.589
 @ 4.743 BC 5°C night
 P.I. { P.I. 4 N 43 E .604
 W.P. stp. 20 N 51 W .283

17. continued

63

Nov. 28th '33Hall with McLead. Colson + Koszencki
Stake sta. 3 to 5 as noted!November 29th '33.

Overcast 39°

R.H. Hall with Duszyński. Genger. Pogorek
+ Anthony Wojciechowski

Stake ⑤ to ⑦ as noted.

December 1st '33

Fair 10° to 20°

R.H. Hall with Duszyński. Genger. McLead.
Pogorek + Wojciechowski.

Resume from ⑦

- ⑨ S 32 1/2° W 10.958
 @ 1.053 E.C.
 @ 9.544 BC 8°C night
 2776
- ⑩ S 55 3/4° W 5.722
 @ 1.414 E.C. 95
 @ 2.889 intersect approx tp. line (var 2° E)
 133.6
 2.025 E S orig Cor 1-2-35-36
 @ 3.998 BC 10°C left.

① S 22 7/8 W
@ 1.724 E.C.
= Station 103.155 ch = 6808

N.B. — See note page 125 ←

Old post for Ouhl. Cor. 1+2 38-4
+ 35 + 36 39-4

does not agree exactly with Anderson's notes
Alex Anderson used a regular sequence in
noting his 4 bearings i.e.
NW - NE - SE - SW

He omitted courses in notes for this corner
but by assuming he used his normal order of
rotation we have #4
Hem 9° S — W .16

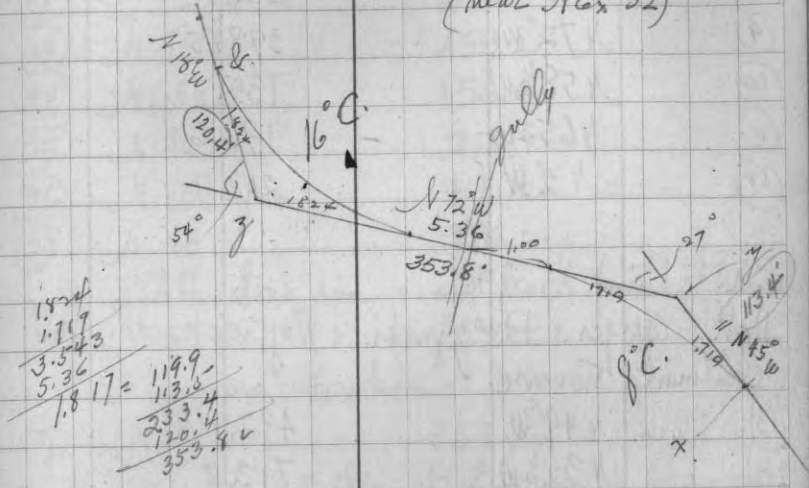
This #4 being only being capable of identification
we swing arc of .16 & find old
post hole in safe general direction as
existing post (N 60° E)

Set new post + pile rocks around
New — W. Pine 9° North .929
= N 2° E ±
or in Sec 36

Remodeling road to Squirrel Tower

Dec. 2nd Am Overcast 35°
Duszyński + Wójcichoński - traversing trail
R.H. H + Gergen ↘

(near NE x 32)



Duszyński + Wójcichoński
Begin trav. of trail with P.C. (on staff) + ^{195'} ~~chain~~ tape.
In Sec. 3-38-5 E.
0.0 = P. 2 at sta 42 on page 128 Book 1
In SW NW Sec. 3.

- Mag. 0 var.
- ① S 27° W 693.2'
 - ② S 87° W 161.5'
 - ③ S 69 1/2° W 290.3'

@ 190.5 gate
@ 280.5 bridge — (channel N 10° W)

P. (16)

(4)	N 73° W	125.1
(5)	N 43° W	303.2 + gr. to flat
(6)	N 32½ W	231.3
(7)	N 61½ W	170.2
(8)	N 45½ W	200.5
(9)	N 72° W	398.5
(10)	N 58½ W	135.
(11)	N 65½ W	196.6
(12)	N 2° W	213.9

P.M. Rain 40°

Hall, Gergen, Droszynski + Wojciechowski
continue traverse

(13)	N 49° W	492.1
(14)	N 32½ W	713.8
(15)	N 11¾ W	321.9
to stake 4.8' W of $\frac{1}{4}$ road at intersection with tp. line		169.2 + 4.8 =
= 174. feet W. of $\frac{1}{8}$ cor on 4-38-5		

Continued in Sec 33-39-5 E.

(16)	North	284.2
(17)	N 21½ W	359.9

(18)	N 15½ E	113.1
(19)	N 6¼ W	275.3
Thru Sag. slopes W.		
(20)	N 39 W	146.3 along rim
(21)	N 73¾ W	217.2
(22)	S 82¾ W	631.5
(23)	N 55° W	459.2
(24)	N 65½ W	156.6
(25)	N 42 W	214.7
(26)	N 15½ W	491.2
(27)	N 43 W	376.2
All along rim - all level to Eastward		
(28)	N 58 W	220.1
more broken		
(29)	N 19° W	351.6
@ 90' gully at E edge of swamp		
(30)	N 16° E	130.4
(31)	N 10¾ W	232.3
(32)	N 48 W	233.2
(33)	N 32 W	227.9
around N. end of swamp.		
Can circle N & E about 1.00 to stay on		
(34)	N 81 W	93.7 ridge
(35)	S 62½ W	79.3

- (36) N $57\frac{3}{4}$ W 261.6
across swampy creek at narrows
@ 205.5 \pm bridge
- (37) N 34° W 128.2
- (38) N $58\frac{3}{4}$ W 203.2
Must follow ridge between Swamps
- (39) N $35\frac{1}{4}$ W 150.
- (40) N 45° W 227.9
Still on S. edge of ridge
- (41) N 29° W 256.7
Along W. rim of flat, widening ridge
— very rainy.

- Dec. 7th 1933 Overcast 25°
RH + Duszynski - Geyer - M^s Leod.
Pogorele + Wojciechowski.
- (42) N 2° E 348.3'
along ridge Top.
- (43) N $27\frac{1}{2}$ W 113.2'
- (44) N 45° W 177.3
@ 63.8 B.C. 8° Curve left.
see sketch page 65 in chains.
- (45) N 72° W 353.8
@ 113.5 E.C.
@ 150 bottom of gully N.S.
cdc Interest \pm 32
S of Sec. Cor. \pm
@ 233.4 B.C. $9\frac{1}{6}^\circ$ E. right.
- (46) N $17\frac{1}{2}$ W 272.
@ 120.4' E.C.
@ 176.1 Interest line of secs 29+32
in T39N R5E \pm 1
151.3' W. of Orig. Sec. Cor.

P. (16)

Orig. Cor. to Secs. 28-29-33-32
(found in Nov by M. Coy)

NW orig. tree is Y. Pine stub 10' high
Good boxing (chained) "B.T." ok
Intersect rec. measurements from this + a
gubbed-off Tam stp. + drive new post.
Comes in narrow swamp swale
(sleigh-hand) to N + S.
Just west of center of do.

Mark new bearings:

P.C.	Jack Pine	7"	N 50° W	37.
no. var.	"	2"	S 42° E	46.7
	"	6"	N 36° E	35.
	Orig. Y. P.		N 47° W	16.5"
	" Tam		N 9° E	11.9"

Run picket line W. (Var. 2° E)
0. Sec cor.
151.3 Intersect tow line as noted.

- (47) N 10° W 265.9'
E. edge of ridge
can go W. 40'
- (48) N 12½° E 382.6'
OK route - can swing 30' E or W
- (49) N 2½° W 353.4'
@ 200 edge of gully west - shallow
+ enter Y. Pine grove
@ 300 broken terrain 70' ± E.
- (50) N 5½° W 149.
- (51) N 6½° E 131. logical route
- (52) N 5½° W 159.3
could drop 40' westerly
- (53) N 11½° W 187.2
- (54) N 20° W 119.7
- Gp. (cut 53 to 55?)
- (55) N 9° E 136.5'
@ 55 4 cor. cross made for N 40° E 56'
- (56) N 40° W 131.6
(* Scotchman L. road for S 46½° E
from (56)
- (57) N. 59½° W 230.1 logical route
- (58) N 81° W 87.1 + Gp.
- (59) S 61° W 107.9
stay 30' or 30' inside here

Trav. P. (16) in 29-39-5

- (60) S 39½ W 169.3 in E rd.
 (61) S 67° W 257.1
 along ridge top - logical route
 (62) S 50° W 143.4
 skirts S. edge Norway grove
 (63) S 62° W 148.7
 Must stay S. 50 or 60° (scattering trees)
 (64) S 37° W 172.
 S. edge pot hole
 (65) S 56½ W 203.3 (logical)
 (66) S 70 W 152.3
 (67) N 83½ W 202.1
 on N. edge hollow - try S. side
 (68) S 43½ W 146.4
 (69) N 88 W 137.4
 (70) S 74½ W 193.4
 (71) N 85½ W 282.4 on flat
 (72) S 83½ W 275.
 (73) N 76½ W 117. on N. rim gully
 (74) S 88½ W 172.7
 (75) N 55 W 104.2
 top of ridge N + S
 (76) N 68½ W 201.2
 to steep pitch

73

- (77) S 82° W 149.9
 (78) N 62½ W 163.5
 stay N for gradual grade
 (79) S 87 W 80.4
 (80) S 72 W 149.6 to E
 Squirrel R. bridge.

Plot this 600' = 1" + determine logical cut-offs.

December 8th 1933

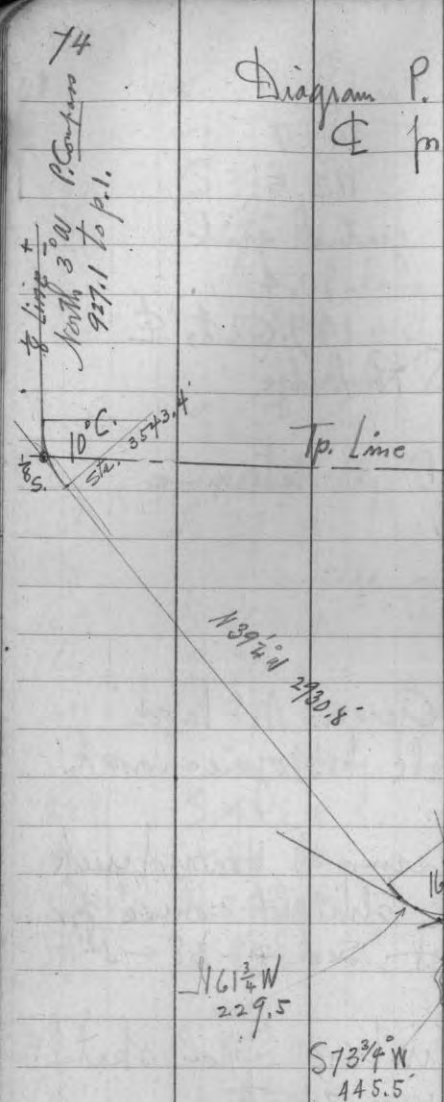
Overcast +10°

RH with Duzynski - Gergen. M^cLeod
 Bogalek + Wojciechowski

Determine logical crossing of Howard creek
 near Sta. 3 + make straight course for
 E ½ Sec. cor on T⁴ Sec 4-38-5

+ back up to #2 Fire Lane as in sketch.
 on page 74 etc.

Diagram P. (16)
 ☐ for road



85.3
 + 50.
 135

85.3
 66
 151.3

0° variation

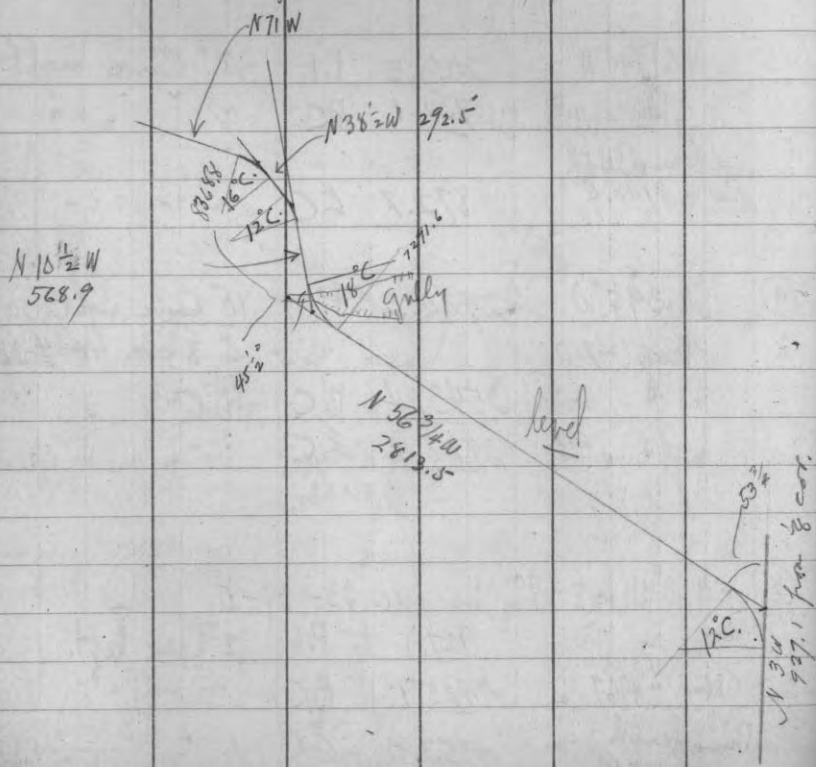
75

Survey of (16) reads =

- o.o ☐ #2 Swampyanger fire lane
- ① N 64³/₄°W 151.3 P.I. 26° Curve left.
 @ 66' B.C. " " "
 Curve length 162.5 = 228.5 E.C.
- ② S 73³/₄°W 445.5 P.I. 16° Curve right
 Tang. 213.7 = 442.2 B.C. " " "
 Curve length 278.1 ∴ 720.3 E.C. " " "
- ③ N 61³/₄°W 229.5 P.I. 16° Curve right.
 Tang. 118' = 732.1 B.C. " " "
 Curve length 140.6 872.7 E.C. " " "
- ④ N 39¹/₂°W 2930.3 P.I. 10° Curve right
 Tang. 2670.7 " = 5¹/₈ cor. 4-4-38.5
 = 3543.4 B.C. 10°
 length Curve 365. 3908.4 E.C. " "
- ⑤ N 3°W out 1/8 line in Sec. 33-39-5
 927.1 to P.I. 12° Curve left.
 Tang. = 496.7 4405.7 B.C. " " "
 Curve length 447.9 = 4853.0 E.C. " " "

P. 16

December 9th 1933 Overcast 10° to 18°
 RH with Hunt, Small, & Johnson
 (foremen)



- | | | |
|---|---|---|
| ⑥ | N 56 ³ / ₄ ° W
Tang. 2438.6
Curve length 252.8 | 2813.5 to P.I. 18° C. right.
<u>7291.6</u> BC " " "
<u>7544.4</u> E.C. |
| ⑦ | N 10 ¹ / ₂ ° W
Tang. 318.
Length of Curve 231.2 | 568.9 to P.I. 12° C. left.
<u>7862.4</u> BC " " "
<u>8093.6</u> E.C. " " " |
| ⑧ | N 38 ¹ / ₂ ° W
Tang. 68.9
Curve length 106.3 | 292.5 to P.I. 16° C. left.
<u>8162.5</u> BC " " "
<u>8368.8</u> E.C. " " " |
| ⑨ | N 71° W
Tang. 269.5
Curve length 227.5 | 490.4 to P.I. 10° C. right.
<u>8638.3</u> BC " " "
<u>8865.8</u> E.C. " " " |
| ⑩ | N 48 ¹ / ₂ ° W
Tang. 267.6
Curve length 200. | 482.7 to P.I. 5° Curve right
<u>9133.4</u> " BC " " "
<u>9333.4</u> E.C. |
| ⑪ | N 38 ¹ / ₄ ° W
Tang. 218.3
Curve length 332.5 | 490.1 to P.I. 10° C. right.
<u>9551.7</u> " BC " " "
<u>9884.2</u> " E.C. " " " |
| ⑫ | N 5° W
Tang. 228.8
Curve length 200. | 504.6 to P.I. 20° C. left.
<u>10113.0</u> BC " " "
<u>10313.</u> E.C. " " " |

December 11th 1933

Mostly fair -18° to 0°

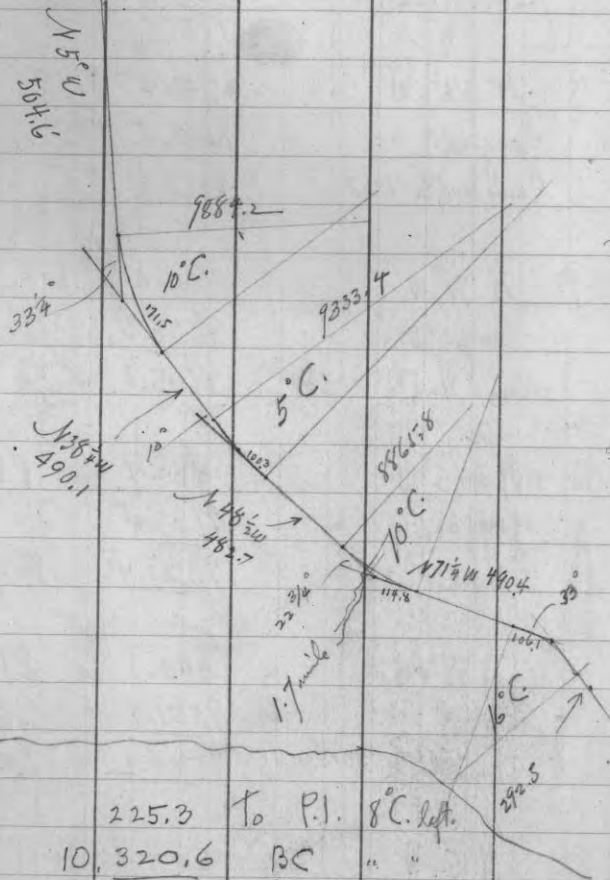
Rt Hall with Duszynski, Genger

M=Lead. Pogorelek + Wojciechowski

Continue staking curves.

490.1
171.5
318.6

1148
50
648



(13)

N 45° W	225.3	To P.I.	8° C. left.
Tang. 7.6	10,320.6	BC	" "
Curve length 22.8	10,543.4	EC	" "

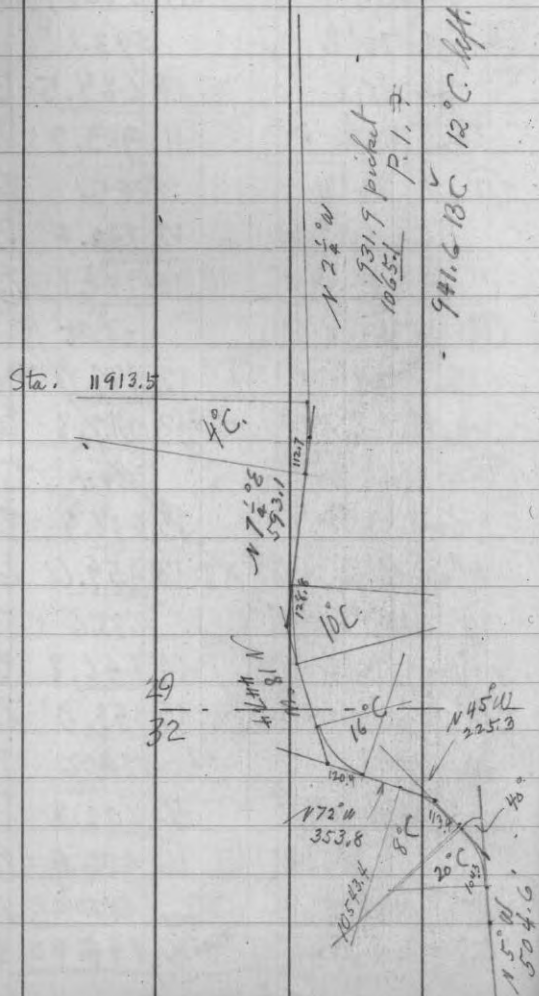
See page 67
measure in chain

- (14) N 72° W across gully 353.8 To P.I. 16° C. right.
Tang. 120. 10,663.4 BC " "
Curve length 222.4 10,886.2 EC " "
- (15) N 18° W 447.4 to P.I. 10° C. right.
10,941.9 To ± 432 151.3 W of acc. Cor.
Tang. 198.2 11,084.4 BC. 10° C. right
Curve length 252.5 11,336.9 EC. " "
- (16) N 7 1/4° E 593.1
Tang. 351.6 11,688.5 BC 4° Curve left.
Curve length 225. 11,913.5 EC.
- (17) N 2 1/4° W 1065.1 To P.I. 12° C. left
Tang. 828.9 12,742.4 BC 12° Curve left.
Curve length 241.7 12,984.1 EC " " + 4 Corners
- (18) N 31 1/2° N 244.5 To P.I. 13° C. left.
Tang. 2.9 12,987.0 BC. " "
Curve length 230.8 13,217.8 EC. " "
- (19) N 61 1/2° W 254.4 To P.I. 27° Curve left.
Tang. 1.1 13,218.9 BC " "
Curve length 240.7 13,459.6 EC. " "
- (20) S 53 1/2° W 1685.6 To P.I. 16° C. right.
Tang. 1387.2 14,846.8 BC " "
Curve length 306.2 15,153.0 EC. " "
- (21) N 77 1/2° W 1341.6 To P.I. 6° Curve left.
Tang. 1049.4 16,202.8 BC. 6° " "
Curve length 254.1 16,456.9 EC. - top of hill.
- (22) S 88° W 671.
Tang. 542.4 16,999.3 E Pine river Bridge

= 3.22 miles

December 12th 1933

Variable -3° to +20°

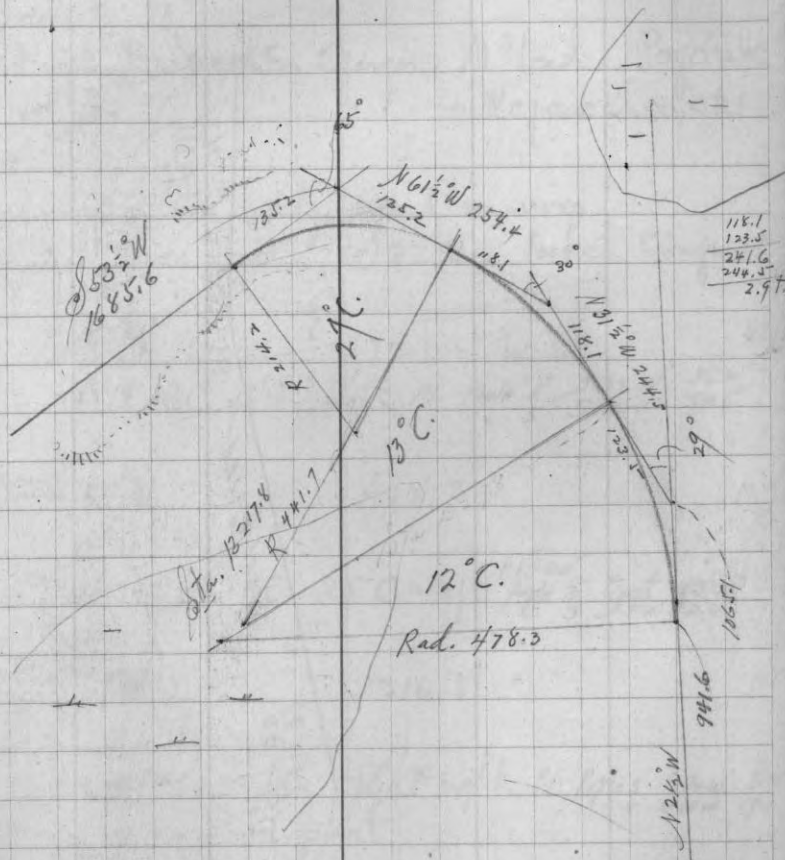
R.H. Hall with Duszynski, Genger, M. Lead
Popielec & WofciachowskiContinue staking ϕ curves

Continued

December 13th 1933 +10° Snowing.

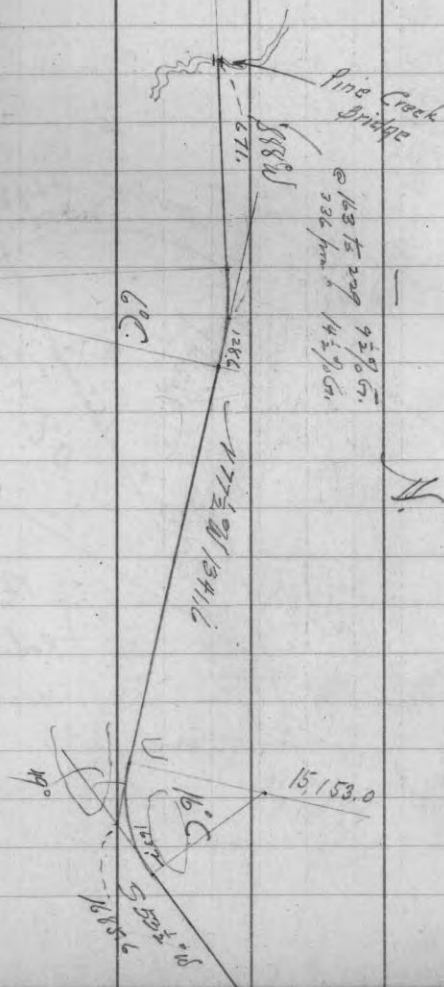
R.H.H. & same crew

Stake Compound curve as drawn, to fit terrain.



(16)
Continued

December 14th 1933
10° to 15° snowstorm wind Same party.
Continue staking & curves.



(16)
West of Bridge

Had traversed Id. road & plotted obvious cut-offs.
Dec 4th with regular crew

December 5th 1933

Overcast 20°

Rt with Anzyski, Gager, M^r Lead, Pogorek
+ Wojciechowski

Beginning in E bridge over Pine river.
Squirrel Tower br. S 22° W pocket compass.

- Ⓐ S 88 1/2° W 121 To P.I.
@ 18' BC 18° C. right. P.I. P. 5" N 35° W 36.4'
" 5" S 22° W 50.5'
- Ⓑ N 55° W 422.3
@ 103 EC.
@ 243.3 BC 20° C. left. P.I. 20°
" 3" East 10.0'
" 3" N 5° W 20.4'
- Ⓒ S 61° W 316.5
@ 179 EC.
@ 244.3 BC 40° C. right. P.I. P. 5" S 74° W 8.75'
" 4" S 10° W 19.1'
- @ 222 culvert

⑩

- (d) N 65 $\frac{1}{2}$ ° W 135.3
 @ 68' + Pt. rev. curvature
 @ 135.3 Tower road hrs
 BC 22° C. left. P.I. Pople 3 N 9° W 16.8
 " 5 N 49° E 26.7
- (e) S 85 $\frac{1}{2}$ ° W 136.9
 @ 68.6 E.C.
 72. BC 22° C right. = 1009.3 from river
 " " P.I. Pople 8 " 531 E 11.7
 " 2 " 669 W 17.8
- (f) N 66 $\frac{1}{2}$ ° W 307.
 @ 64.9 E.C.
 164.2 BC 16° C left. P.I. 145.4 beyond culvert.
 162 Culvert. " 5 N 83° W 4.5
 " 5 N 6° E 7.7
 Ext. 27.5
- (g) S 70° W 400.
 @ 142.8 E.C.
 233 BC 16° Curve right.
- (h) N 59 $\frac{1}{2}$ ° W 645.
 @ 167 E.C.
 117 Creek. culvert.
 467 " ✓
 557.4 BC 16° C right. P.I. 16° C (178 beyond culvert.)
 " 7 " 585 W 30.0
 " 5 " 517 E 16.3
- (i) N 33° W 275.4 *
 at 87.6 E.C.
 178.3 BC 12° C left.

$$\frac{645}{178} = 3.62$$

- (j) N 56° W. 546.6'
 at 97.1 E.C.
 288.4 BC 14° C left.
- (k) S 59 $\frac{1}{2}$ ° W 432.4 to turn in Town road
 at point 7' 11" trav. Δ
 @ 258.2 E.C.
 = 3,581.4' from bridge + 20,580.7' from #2
 = .68 miles = 3.898 miles

N.B. In June 1934 re-route #16 beyond (i) *
 to follow old route more closely
 See Book 3 page 53

Traverse in Secs. 29 + 28 (39-5)

December 7th '33 Overcast. Snow. +25°
 P.M. R.H. # with Dwozynski, Geger.
 M^cLead. Pogorelec + Wojciechowski
 (After completing trav. to Pine R. bridge
 page 73)

Begin at Sta. (56) "Four Corners"
 in NE SE Sec. 29 - (39-5)

100' Tape + Pocket Compass on staff.

N^c var.

①	S 46½° E	285.5	+ gr.
②	S 71½° E	150.6	+
③	S 86° E	174.1	
④	N 82° E	113.	level
⑤	N 70° E	101.9	
⑥	S 84½° E	99.7	
	around hill - ravine on left.		
⑦	S 43° E	112.5	- gr. curve
⑧	S 35½° E	123.	- "
⑨	S 88° E	347.	

Swamp on right - hillside on left

Must follow

⑩	S 79° E	325.2	
	+ grade - only logical route.		

⑪	S 56° E	220.1	
	about 8' above swamp here - around shoulder		
⑫	S 82½° E	131.2	
⑬	N 62° E	245.2	
⑭	N 41° E	200.4	
	Shoulder less precipitous		
⑮	N 31½° E	133.	
⑯	S 56° E	138.5	
	Square turn. 7 or 8' above swamp.		
⑰	S 31° E	220.	
	@ 50' enter marsh		
	149 New culvert		
	200' leave swamp.		
⑱	S 88½° E	228.6	8 or 9' above swamp
⑲	N 63½° E	116.8	hr. swamp.
⑳	N 82° E	141.9	
㉑	N 51° E	260.	
	@ 245 old grade br. S 57° E		
㉒	N 77½° E	202.7	
㉓	East	154.1	
㉔	N 64° E	272.3	
	@ 28' enter marsh		
	@ 154 @ new bridge over Squirrel R.		
	@ 175 leave marsh.		
㉕	N 15° E	377.9	
	up long hill to flat.		

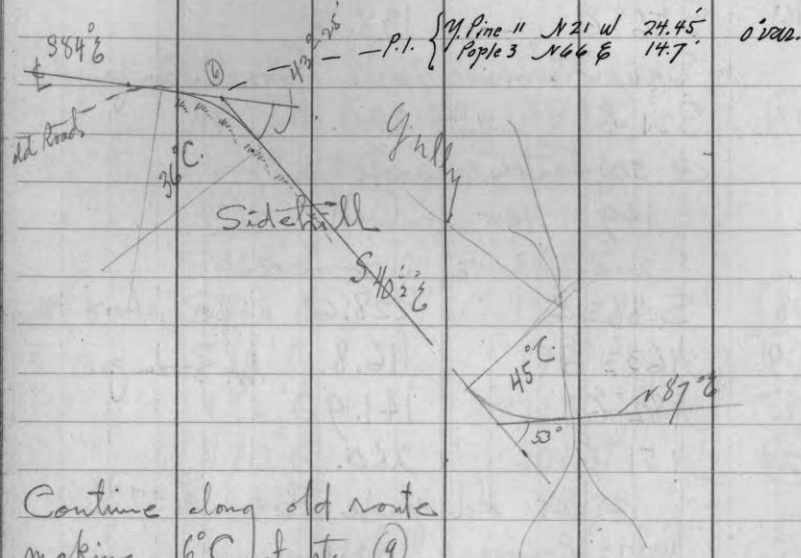
Curves on Scotchman L. Road

December 15th '33 Mild temp.

RH with Regular crew

Follow old route - Smoothing off curves

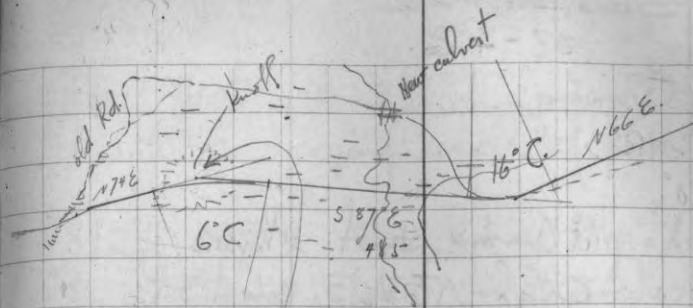
Except for initial stretch from

"4 corners" road intersection to top of hill. Make this $S 84^{\circ} E$ 

Continue along old route
making $6^{\circ} C.$ at sta (9)
 $16^{\circ} C.$ " (10)

January 5th '34 30° Snowing

RH with Duszyński, Gugen + Pogoroda

Stake $25^{\circ} C.$ at (11) $16^{\circ} C$ (12)

587.6 from P.I. on knoll

38' Enter marsh.

159.8 $8^{\circ} C$ $6^{\circ} C$ Curve212.5 4° Creek

237 leave marsh

483 P.I. $16^{\circ} C$ Curve. Thence see B 3

p. 35

Secs. 21 + 22
38-4 E.

Cruising

Dec. 16th 1933

Fair 20°

Rt Hall. McGinnis + A. Johnson

Fail to locate origl NE x 22 definitely
Finally select approx spot by
line on landmark E + by topography
of Creek bottom marsh.

Run West (var 2 1/2° E) 25 steps = 1 ch. ±

Steps - Ch.

321	12.85	Enter Swamp N+S
497	19.87	Lo. - in NW x pocket
623	24.90	" flat + enter
		Shallow gulfs NW + SE
999	40.00	swamp. large a stump

Thence S 14° E 120 steps = 4.80 to
old squared Tamarac. Cannot check
any origl trees but this stands
very near origl 1/4 without a doubt

* Found OK Jan'y '38 See Book 9

Thence West (var 2 1/2° E) along old blazes
(H. J. McG. keeping record of swamp etc.)

892 = 35.70 ± Cross old RR grade + set
temp stake for # 22.

Look in cedar swale for cor. but find
nothing. Dan Jesart says cor. was
right alongside RR on West side.
Assume corner to be at 910 steps.

Run West on # 21 (var 2 1/2° E)

216	= 8.64	Enter alders N+S
255	10.20	Lo. - W + NW
372	= 14.87	old RR grade has N 42° 40'
		them 136 E
378	= 15.12	mark a stub.

Thence traverse said old RR

① S 52° W	145	=	5.80
50 to 82			alders neck
= 2.00 to 3.28 ch.			"
② S 57° W	154	=	6.16
28 to 66			alders neck
= 1.12 2.64 ch			"
③ S 40° W	83	=	3.32

Old R.R. continued

④ S 22° W 107. = 4.28 ch.

along W. edge of swamp.

⑤ S 6° W 134 = 5.36

⑥ S 14° E 110 = 4.40

* To junction, thence along main line. (now travelled)

⑦ S 39° E 225 = 9.00

@ 157 = (6.28) tip of marsh - to. of.

⑧ S 36° E 120 = 4.80

⑨ S 38° E 170 = 6.80

⑩ S 35° E 204 = 8.16

86 to 144 neck of swamp

(3.44) (6.56)

⑪ S 36° E 137 = 5.48

To dry culvert

⑫ S 53° E 68 = 2.72

⑬ S 64° E 72 = 2.88

⑭ S 66° E 91 = 3.64

⑮ S 54° E 76 = 3.04

to junction with grade from NE.

① J. M. G. traversing do & beyond to Swampsaver fine line)

* i. N. should be 257 steps W + 517 steps N. of junction ✓

Squirrel Tower Road.

December 18th - 33

AM entire crew on Scotchman road curves

PM - Duszynski. M. Lead + Pogorek

Traverse stub trail to Fire Tower:

Sight compass 0° var. 100' tape.

Begin on (16) at d 125.3 page 84

① S 24° W 89.3'

2 S 23 1/4° W 211.3

3 S 15° E 125.4

4 S 35° W 141.9

5 S 36° W 177.3

6 S 20° W 145.1

7 S 45° W 36.

8 S 10 1/2° E 99.6

9 S 31 3/4° W 164.

10 S 17 1/2° W 121.2

11 S 13 1/2° E 125.7

12 S 1/2° E 156.5

13 S 25° W 67.7

14 S 7° E 264.2

15 S 30° W 58.3

Squirrel Tower Trail.

(16)	S 62 W	136.3	
17	S 39 3/4 W	66.5	
18	S 67 W	136.1	
19	S 23 W	126.	
20	S 13 1/2 W	112.1	
21	S 13 E	76.0	
22	S 19 1/2 W	73.	
23	S 9 E	123.8	
24	S 14 W	79.6	
25	S 42 E	115.2	Start climb
26	N 86 1/2 E	85.7	
27	N 59 E	162.1	
28	N 33 E	82.	
29	N 11 E	73.6	
30	N 44 3/4 E	206.4	
31	N 86 E	84.4	
32	N 61 E	173.9	To rear of bldg. on summit.

Pine Lake Road

In 30-39-5 Town Road.
Continue traverse ^{SW} from sta (20) = junction
of (16) with town road leading to Murray's

December 18th - PM R.H. Gergen + Wojciechowski

(21)	S 23 1/2 W	202.3	
	@ 190' old road, by S 85 E.		
	New route will join town Rd. here.		
(22)	S 62 W	341.4	
(23)	N 66 1/2 W	520.3	
	@ 520' old mining road, hrs. N.		
(24)	N 42 3/4 W	289.	
	To junction of Shafer road + follow do		
(25)	S 27 W	170.8	+ Gr.
(26)	S 87 W	252.5	
(27)	S 38 W	608.2	
(28)	S 22 1/2 W	361.5	
(29)	S 38 W	372.2	
	@ 150' E hrs W 20' +		
(30)	across town		
	S 43 W	279.6	
	@ 115' E hrs, left 20'		
	@ 224' " right 15'		
(31)	parallel to + 50 or 60' E of swamps.		
	S 3 W	95.2	
(32)	S 42 1/2 E	228.2	

Pine Lake Road

in 30-39-5 E.

(33)	S 41° W	389.1	
	@ 101 old road hrs right - curving right		
(34)	S 10 1/4° W	264.	
(35)	S 70 1/2° W	127.4	
(36)	S 42 1/4° W	316.3	

December 19th 1933 AM fair 15°Same party with chain tape
+ McCoys army compass - (readings in Az.)

(37)	200° =	S 20° W	2.74 ³ =	181.
(38)	212 1/4° =	S 32 1/4° W	8.63 ⁷ =	570.
(39)	260 1/2° =	S 80 1/2° W	3.97 =	262.
(40)	282 1/2° =	N 77 1/2° W	1.14 =	75.

should intersect Range line 5.046 ch S
of Cor. 25-30-38-36 ?
(by scale) (ran 2 1/2 E)

(40)		N 77 1/2° W	3.95	260.7.
	In Sec. 36-39-4			
(41)	299°	N 61° W	4.11	271.3
	alder swamp about 100' N.			
(42)	255°	S 75° W	2.53	167.
	To L. M. Mahins private road			
	" " " " " "			hrs 190°

Pine L. Road

Continued

(43)	275 3/4°	N 84 1/4° W	4.28	= 282.5
(44)	312°	N 48° W	6.30	415.8

110' to 250' belt of spruce swamp.

(45)	255°	S 75° W	7.37	486.4
(46)	238 1/2°	S 58 1/2° W	.90	59.4

To approx 1/4 Sec. 36 - 987 ft. E of 1/4 cor. of Cr. 1

Squirrel Lake Road (Town Road.)

N^{ey} from junction (16)December 19th '33 AM

Duszynski. McLead + Pogorelc.

Staff compass (no var.) 100' tape.

①	N 24° E	147.1
2	N 8 3/4° W	368.
3	N 18 1/2° E	325.3
4	N 47 1/2° E	210.5
5	N 74° E	338.6
6	S 86 1/4° E	297.9
	@ 250 road hrs S 43° W	
7	N 83° E	343.3
	@ 168 squirrel River bridge	
	" " " " " "	hrs S 12° E
4	N 69° E	229.7

Squirrel Lake (Town) Road
in 29 + 20 (39-5)

(9)	S 73 E	117.5
(10)	N 25 1/4 E	190.
(11)	N 54 E	187.2
To approx line of Secs 30 + 29 (39-5)		
1400' ± S of Sec Cor.		
(12)	N 84 1/2 E	283.9
13	S 86 E	165.5
14	N 60 1/2 E	114.0
15	N 29 E	269.8
16	N 11 1/2 E	443.2
17	N 46 E	246.6
18	N 5 1/2 E	77.
19	N 21 W	329.
20	N 10 1/2 E	183.5
21	N 5 1/2 E	226.4
@ 207' ± Intersect E Sec 20		
331' W of 1/4 cor. ±		
22	N 31 E	147.7
23	N 43 W	187.6
24	N 7 1/2 E	86.5
25	N 30 E	335.
26	N 59 E	199.8
27	N 36 E	238.3
28	N 69 E	265.
to junction		

(29)	N 77 W	330.
(30)	N 62 1/2 W	87. To approx loc.
to cor in SW 1/4 20		

HC Hall set this in 1927 + drove post + iron pipe in SE cor. of swamp. Did not have our notes. Both Norways are here but South one has been defaced. Apparently post + iron have been removed.

Murray's Road in NW 1/4 30-39-5
PM Combined party.
Begin at (24) page 95 = junction with Pine L.
or Shafer road

(1)	N 30 W	159.4
SE corner alder + Spruce Swamp		
(2)	N 50 W	244.
(3)	N 37 W	260.3
@ 80 enter swamp neck		
(159 old logging road hrs. 223°		
110' creek 5' wide runs N 45 E		
240' to swamp.		
(4)	N 61 W	213.

Murray's road in NW $\frac{1}{4}$ 30-39-5
Continued

- | | | |
|------|--|------------|
| (5) | N 72 $\frac{1}{2}$ ° W | 390.8 |
| (6) | N 64 $\frac{1}{2}$ ° W | 191.7 |
| (7) | N 39 $\frac{1}{2}$ ° W | 323.4 |
| | @ 80 shallow ravine N 75° E | |
| (8) | N 15° W | 275.9 |
| | 110 to 200 sharp - grade | |
| | 200 = alder meadow 40' wide | |
| (9) | N 47° W | 77.7 |
| | along crooked ridge | |
| (10) | N $\frac{1}{2}$ ° E | 189.2 |
| | @ 100 low swamp on left. | |
| (11) | N 7 $\frac{1}{2}$ ° W | 266.9 flat |
| (12) | N 35 $\frac{1}{2}$ ° W | 272.9 |
| | to junction with old road leading
toward Pine camp. Squaw L. &
Buckskin L. | |

Old Squaw L. Road.

In NW NW 30-39-5

- | | | |
|------|---|------------------------|
| (13) | S 75 $\frac{1}{2}$ ° W | 191.5 level |
| (14) | S 66 $\frac{1}{2}$ ° W | 290.4 E rim of gully |
| (15) | S 76° W | 64. To center - gully. |
| | of saddle - Gullies right + left. | |
| | Swamps " " " | |
| | Thick cedar swamp 300' S. | |
| (16) | S 46° W | 160.8 |
| | terrific + grade | 40' to 140' |
| (17) | N 38° W | 154.6 along hog-back |
| | very narrow | 50' or more above |
| | Swamps E + W. | |
| (18) | N 76° W | 270.2 |
| | just 100 strong - gully. Thence along N | |
| | side of swamp. | |
| (19) | N 45 $\frac{1}{2}$ ° W | 130.3 |
| | @ 30' should intersect Range line | |
| | 6.36 = 420' S. of corner 19-24-25-30 | |
| | (by scale) var. 2 $\frac{1}{2}$ ° E. | |
| | In NE NE 25-39-4 | |
| (20) | N 74° W | 188. rough terrain |
| (21) | S 62° W | 100.5 - grade |
| (22) | N 84° W | 65. in bottom |
| (23) | S 74 $\frac{1}{2}$ ° W | 121.8 |
| (24) | S 63° W | 194.6 |

Old Buckskin Squaw L. trail

Continued

In NE NE 25-39-4
December 20th 1933

Overcast - fog. 30°

RH with Ruszynski, Gager, M^cLeod,
Pogorelec + Wojciechowski

Continue same traverse.

(25)	N 59 1/2 W	151.5	
			Gully on left.
(26)	N 57 W	271.2	
			to junction with Finncamp road
a	S 27 W	183.7	
b	S 9 1/2 W	144.8	
c	S 28 W	108.2	
d	S 23 1/2 E	271.9	
e	S 31 1/2 W	202.3	to old camp
f	S 5 W	85.2	Tam swamp SE
g	S 42 W	148.5	
h	S 19 1/2 W	147.4	
i	S 2 E	214.6	@ 189 old road left
j	S 11 W	138.4	
k	S 62 W	196.5	
l	S 22 W	100.2	
m	S 25 1/2 W	228.9	
n	S 18 1/2 E	98.5	
o	S 59 1/2 E	145.9	
p	S 37 E		thru alder swamp quit

Squaw L. Buckskin L. trail

Continued

(27)	N 29 1/2 W	171.	@ 20' SE x 24' should be 1140'
(28)	N 21 W	172.3	Small New back
(29)	N 53 W	168.4	
(30)	N 66 W	128.8	
(31)	N 52 W	144.3	
(32)	N 13 E	106.6	along hog back
(33)	N 24 W	67.4	- summit
(34)	N 1 W	207.7	
	at 100 steep	- grade	
	last 70	+	
(35)	N 12 1/2 E	90.7	
(36)	N 4 1/4 W	123.8	along ridge
(37)	N 1 W	101.4	gradual descent dropping away rt + left.
(38)	N 14 W	264.8	@ 145 wood road has left into bottom 300'
(39)	N 6 E	293.4	@ 125 descend into lower level
(40)	N 4 E	188.9	
(41)	N 18 3/4 E	123.5	follows valley - good W + Y pine reproduces.
(42)	N 23 W	254.	good 3' x 4" reprod. on left.

Squaw L. - Buckskin Trail

continued
Sec 24-39-4 E.

- (43) North 86.4
@ 35 stp marked by Albom + Pinkowsky
- (44) N 19½ W ²⁸⁵ 188.3
around N. side knoll
- (45) N 5¾ E ²¹⁴ 141.3
Steep - gr. - poplar - birch -
scattering pines
@ 120 blazes + blue pencil on
maples - meant for ESW ¼

- (46) N 19 W ⁶⁹⁶ 459.6
thin draw. very rugged on left.
high hills.

- (47) N 41 W ¹²² 81.

- (48) N 62¾ W ¹⁶⁴ 121.7

- (49) N 21¾ W ¹⁷⁴ 114.6

@ 49 junction old road to N 77 E

- (50) N 64½ W ³⁹⁵ 261. all - gr.

- (51) N 4½ E ⁵¹¹ 377.

into open valley

- (52) N 24½ W ⁴⁴¹ 278. small maple
+ birch

- (53) N 10½ W ¹⁵⁹ 104.9 level

- (54) N ½ E ^{3.33} 220. level

- (55) N 15½ W ^{7.32} 483.3

- (56) N 54 W ^{2.83} 186.6

- (57) N 57 W ^{2.08} 137.3 + quit for day

Original N ¼ S. cor. 24-39-4 should be.
40° W of (57) thence N (12°) 200' ?
or 270' ?

by scale.

Swamp Sanger Five Lane.

Thru Secs. 4-9-16-17 (38-5)

December 21st 1933

Overcast +10°

Rt. Duzynski - M^{rs} Lead - Gergen - Pogorek
+ Wojciechowski

Staff Compass (no variation) 100' tape.

Beginning at junction of 2 + #14
in SE SE 1/4 of Sec. 4

①	S 77° W	267.6	5' S of E
②	N 85° W	304.6	" "
③	S 80° W	258.7	5' N of E
④	S 63° W	343.8	5' W of E
⑤	S 47 1/2° W	281.2	

@ 50 enter alder bottom

⑥ S 30 1/2° W 219.8

⑦ S 13° W 935.8

@ 587' approx. Sec. line bet 4 + 9
by cruise.

1/4 cor should be W in Swamp.

⑧ S 1/4° E 1096.3

@ 75 ± old Crouch road - bus. S 69° W

95 Five lane gate

850 hit W. side of neck of hard land
between swamps

⑨	S 17° E	491.5	over low knoll in line of swamps NE + SW
⑩	S 24° E	380.3	
⑪	S 6° E	286.6	12' E of E 0-170 across marsh narrows
⑫	S 23° W	389.2	4' E of E along SE edge of swamp
⑬	S 24° W	192.4	4' W of E
⑭	S 7 1/2° W	350.1	8' W of E
⑮	S 12° E	949.2	4' E of E 540 to 690 Cross E. end small marsh
⑯	S 3° W	1031.3	107' 400' skirt E side small marsh @ 860 ± should cross line of 9 + 16 330' W of 1/4 cor. (scale)

at 934 ±

find 1/4 S (orig)

5/16/35

" " may be close to road
W. of traverse.

⑰	S 1/2° W	569.7	5' E of E
⑱	S 9° W	264.5	5' E " "
⑲	S 18° W	392.2	" " "
⑳	S 31° W	1200.5	5' W of E just large rock on W. side

@ 486 trail SE to Cap. Rays shack
about 150'

100' = 7500 ft

#2 Swampyanger Fine Lane

in Sec. 16-38-5

(21)	S36°W	373.
(22)	S57°W	834.8
(23)	S45½°W	284.4
	piece of RR rail at "	
	@ 80° spur grade branches right	
(24)	S29½°W	191.9
(25)	S17°W	397.5
(26)	S5°W	377.6
(27)	S17½°W	745.9
(28)	S20½°W	420.3
(29)	S14½°W	550.2

@ 33.3 intersect on picket line &
meas. E to our foot at Orig.
Cor. 16-17-20-21 396'

@ 352 old road to Ferris Soudants
shack crosses fine lane

(Jan 8th '34 Set Aluminum plug² on tree W of road)

(30) S30½°W

#2 Swampyanger Lane

Secs. 23+24 38-4

December 28th 1933 Fair -15°

Rt. Ed. Duszynski - Emil Genger
+ Tony Wojciechowski - Swampyanger

Beginning at intersection of 2 + 14 in 23-38-4
- Staff Compass (no var.) } 100' tape.

(1)	S51½°E	208.7
(2)	S43°E	362.8
(3)	S38½°E	509.
(4)	S56½°E	170.
(5)	S68°E	958.5

@ 50' $\frac{1}{4}$ c^o should be S 760 + 110 = 870
possibly 1270'

(6) S59¾°E 710.

(7) S52½°E 1441.7

@ 1413 possible post?

(8) S54°E 643.2

(9) S69¾°E 254.7

along N. side big swamp.

Swamp Sangaer Fire Lane (24-38-4)
Compass traverse (no var.)

(10)	S 89° E	207.8	To W. Bush 3" near pit
(11)	N 71° E	329.4	
(12)	N 56° E	207.4	
(13)	N 45½° E	188.8	
(14)	N 43½° E	676.8	
(15)	@ 200' enter N. end swamp		
(15)	N 38¾° E	777.9	
	@ 211	⊕ Bridge	
(16)	N 50½° E	240.3	
	To Range line	243.8 N of orig. ¼ S	
	Set 19+24		
	@ 193.3 over random line	.267' N. of	
		158.151	
	= @ Sta.	157.884	

2
Swamp Sangaer Fire Lane

Thurs 19+20 (38-5)

January 4th 1934

Overcast 20° Calm

Rt. (Ed. Emil) (Lefty)

(Suzynski) (Gagn) (Popovik)

1/24/36 Set Capped County mon. 12" exposed -
Set new post at Quad 7 S. between 19+24

Staff Compass at Corner (0 var.)

{ Orig. B.T. for N 3° W. record

" " " " N 17° E " "

New Cedar 5" N 38° E 49.8' = .754' ch.

Near N. on approx true line

233' = ⊕ #2 lane

243.8 Set Cedar post + aluminum card ①

(Prolong over random range line S.

161.14' ch. right angle E, to ¼ cor.
.627 ch. = 41.4'

Figure Correction from old Sec Cor. ½ mile

N. at 120.02' (page 34) Not entirely as
notes call for but am satisfied
it is actual corner. Were on old
spots down that far. ✓

in 19+20 38-5

Transverse	with Staff Compass	Other	100' tape
0.	= Location	poster	243.8 N of $\frac{1}{4}$ S.
①	N 67 $\frac{1}{2}$ ° E		198.4
②	N 88 $\frac{3}{4}$ ° E		129.5
③	S 71 $\frac{1}{2}$ ° E		225.
	+ br Swamp on S. side		
	@ 150±	gully to N	
±, ④	S 48 $\frac{1}{2}$ ° E		697.5
④		level - high ground	
⑤	S 63 $\frac{3}{4}$ ° E		256.3
⑥	S 79 $\frac{1}{4}$ ° E		189.5
		to junction with old grade to	
		Zentness camp	
⑦	East	to West	1197.4
⑧	S 82° E		219.0
		along N edge alder draw 2 ch. wide	
⑨	N 83° E		319.
		along alder draw widening here	
		to 4 ch.	
⑩	N 70 $\frac{1}{4}$ ° E		276.
		alder swamp joins spruce swamp N	
⑪	N 60° E		525.5
70		enter swamp	
161		take culvert	
366		br swamp	
525		peculiar Knoll to S 53 E	180±

⑫	N 80° E	289.	
⑬	S 78 $\frac{1}{2}$ ° E	1654.7	
	@ 1300 Knoll		
	1142	old grade N 29 E	
	1152.6	Orig. $\frac{1}{4}$ S cor bet 19+20	
		bears N 32° E	564.6'
	1470	bridge over creek	

(Platted out, Sec. line crosses this bridge)

Orig. $\frac{1}{4}$ S cor. find old post 1" above ice & both bearings. N. one good specimen but later ~~with one down no marks visible.~~
Post is at record dist. from both Bts but courses read N 3° E & N 64° W ^{var}
New Tam. stub 14" S 82° W 19.9'
(Run S 32° W 564.6 to Tam. at 1152.6)
∴ $\frac{1}{4}$ cor to E Bridge calc South (var 1 $\frac{1}{4}$ ° E) 543.5'
⑭ N 83° E 167.5'

Aug. 21st 1934 with Kozzenok + D. Nowak
Plant new post + steel bar 1x4x70" ±
alongside old post.
Also find bole of W. birch Tam. marks OK
was under ice last winter.
Grew against stp. we took to be orig.

1655
1470
185

Swamp ranger Fire Lane.
(2)January 8th 34

Overcast 20°

Rt. Amzyski, Jager, Pogorelc.

Continue trav. E of thru Sec 20-38-5

(15) N 71 $\frac{1}{4}$ ° E 299.
marshy bottom on right
@ 299 pass knoll narrows + enter
Spruce Swamp

(16) N 55 $\frac{1}{4}$ ° E 449.4
@ 300 lv. swamp, pocket on
right extends N. some dist.

(17) N 67° E 381.5
@ 33 steps - pace to hunting camp:
N 25 W 48 steps
N 28 W 60 "
N 70 W 74 " to camp check
last 260' of 381.5 borders small swamp
on right

(18) N 80 $\frac{1}{4}$ ° E 757.5
@ 500 \pm enter swamp
730 \pm culvert tube

(19) N 72 $\frac{1}{2}$ ° E 425.
@ 200 lv. swamp NE

- (20) N 60° E 1108.
@ 300 over islands + re-enter same swamp
@ 746 culvert tube.
- (21) N 52 $\frac{1}{2}$ ° E 168.
- (22) N 39 $\frac{1}{2}$ ° E 234. + lv. swamp
thence along E. edge do
- (23) N 30 $\frac{1}{2}$ ° E 721.3
@ 624 old rd. to swamp 155 w
- (24) N 40 $\frac{1}{2}$ ° E 727.4
@ 24 W.P. stub 30' x 30' br. N 70° E 31'
- (25) N 30° E 214. to sta (29)
from N.

In plotting this. I mapped both ways
from where we crossed § Sec. 17.

In sec. 22 + 23 (38-4)

January 2nd 1934

12" Snowing

R.H. with Duszynski Geger - Wojciechowski

Spend 3 hrs. searching for E 4 23

Find no line nor corner

lose snow - going tough.

Mees. S 760' from sta. 4 + 50' (page 109)

" set temp picket.

Continue traverse Wly from junction of

(2) + (14) = 0.0 on page 109

(1) N 62 $\frac{3}{4}$ ° W 132.7'

@ 0.0 (14) hrs N 43° E

(2) N 80 $\frac{1}{2}$ ° W 437.4To our sta (C) on traverse old Couch Rd.
(junction with old Road)

(3) S 79° W 369.

@ 220 enter open marsh

(4) S 64° W 447.2

@ 400 lv. marsh

(5) S 55 $\frac{1}{2}$ ° W 402.8

all along N. margin same swamp.

(6) S 47 $\frac{3}{4}$ ° W 1256.5

low - semi-swamp Open growth

@ 100 neck of marsh NW + S.

(7) S 55 $\frac{3}{4}$ ° W 299.4

low semi-swamp - poplar cover.

(8) S 66° W 186.5

(9) S 78 $\frac{1}{4}$ ° W 566.2

@ 50 enter Swamp

163 bridge over Swamp sanger Creek S.

362 fire lane gate

400 Bushy's road hrs. right

" house N 17° W

" other cabin N 8° W

(10) S 68° W 277.9

@ (10) Bushy's hrs N 5 $\frac{1}{2}$ ° W

other cabin N 6° E

(11) S 53 $\frac{1}{4}$ ° W 384.9

(12) S 67° W 1400.3'

@ 100 shallow gully from NW

extends SE 300' to swamp hole

@ 215' 1/2 cor. should be 30' right

Secs 22 + 23 (2 12" Birches) ?

@ 1400' Bldg hrs N 32 $\frac{1}{2}$ ° E.(13) S 81 $\frac{3}{4}$ ° W 1359.1

in 22-38-4

January 3^d 1934

Overcast, +15°

Same party - on snowshoes. Continue

- (14) S 67 $\frac{1}{2}$ ° W 302.4
- (15) S 57 $\frac{1}{2}$ ° W 720.6
@ 500 br. flat + enter gullies
- (16) S 30 $\frac{1}{4}$ ° W 579.3
@ 150 enter swamp N+E
@ 360 old road bis. $\phi 40^\circ E \pm$
500 br. swamp + follow neck
of hard land flanked by
same swamps.
- (17) S 43 $\frac{1}{4}$ ° W 380.
- (18) S 67 $\frac{1}{4}$ ° W 645.
200 to 600 borders swamp on right
- (19) S 64 $\frac{1}{4}$ ° W 490.3
last 150' borders spruce + cedar
swamp on right $\frac{1/20}{1/15}$
- (20) S 54 $\frac{1}{4}$ ° W 344.7
@ 230 road (connecting with grade
N. along sec. line) bis N 32° E
- (21) S 41 $\frac{1}{4}$ ° W 241.
thru big cut. Swamp still on right
- (22) S 18° W 342.6
To \vee junction
- Find Davis R.R. in on for $\frac{1}{4}$ cor. bet 21 + 22 no bearings
start picket line N. $\gamma 2\frac{1}{2}^\circ E$

Old Road N. from "4 Corners" connecting with
old R.R. SE thru Sec 28-33 + 34 (39-5)

- December 29th 1933 Snowy -5° to 0°
RH with Duszynski - Gump - Wojciechowski
Start at "4 corners" road intersection.
Trav. old tote road. N $\frac{1}{4}$
- (1) N 31 $\frac{1}{2}$ ° E 356.5
- (2) N 63 $\frac{1}{4}$ ° E 295.1
- (3) N 20 $\frac{1}{2}$ ° E 409.2
- (4) N 9° E to old camp 437.3
- (5) N 27 $\frac{3}{4}$ ° W - RR grade 337.2 thence
along " "
- (6) S 48° E 285.5
- (7) S 37° E 399.6
to swamp fill
- (8) S 48 $\frac{3}{4}$ ° E 211.3
- (9) S 62° E 140.
- (10) S 72° E 138.6
@ 100 br. Swamp on right.
- (11) S 78° E 117.
along margin under hill
- (12) S 86° E 104.5
- (13) S 89 $\frac{3}{4}$ ° E 151.6
- (14) N 80° E 154.1
- (15) N 80° E 193.2 } = 347.3

@ 0 - 120 thru
440 N to cor.

Continued

- (16) N 88 $\frac{1}{2}$ E 85.3
Noway + jack on right
Swamp on left
- (17) S 73° E 213.5
around sharp hi-shoulder
- (18) S 52 $\frac{3}{4}$ E 188.
- (19) S 45 $\frac{1}{4}$ E 410. along fill
- (20) S 34 $\frac{1}{4}$ E 598.2
250 to 550 swamp-marsh
- (21) S 57° E 451.9
@ 90.5 Scotchman road cut (page 87)
- (22) S 61° E 268.6
@ 175 enter swamp
- (23) S 42° E 231. in cut
@ 130 lv. swamp tit
- (24) S 34 $\frac{1}{2}$ E 397.6
@ 70 Swamp
- (25) S 39 $\frac{1}{4}$ E 686.1
- (26) S 25 $\frac{1}{4}$ E 337.7
@ 50 enter N. tip of marsh
@ 330 lv. " " "
@ 337.7 bearings for Sec Cor
should bear East 900' ±
- (27) S 9° E 235.
- (28) S 18 $\frac{3}{4}$ E 525.6
- (29) S 25° E 979.6

- December 30th AM Foggy +20°
Rt with Emil Genger
- (30) S 45° E 556.
- (31) S 43° E 1005.
down grade to swamp.
@ 550 enter " at right angles
- (32) S 33° E 174.
- (33) S 43° E 800.
@ 275 Pinkowsky's cedar operations
- (34) S 48° E 218.
@ 40 ± new blaze (McGinnis')
for line of secs. 33 + 34
- (35) S 57° E 300.
@ 170 old road brs left thru swamp
- (36) S 47° E 700. + lv. " N+S
- (37) S 38° E 209.8
- (38) S 17° E 225.8
- (39) S 4 $\frac{3}{4}$ E 436.5 to random 44
Sec 3-38-5 + meas E to Orig^l 44
284'
— 5 = 279' on 4.23 ± road
- (40) S 14° E 176.
- (41) S 31° E 222.6
- (42) S 18° E 202. To #2 Pine Lane

P. (22) in Sec. 1-38-4

Traverse of old Road past Mc Grath Camp.
 Contemplated use as winter road to
 Gilkey-Anson camp - for transp.
 of men only, on (17)

January 8th 1934 P.M.

Rt. Duzynski, Guger + Pogorelec.

Begin on $\frac{1}{2}$ Sec. 1 48.3' N of cor. loc.
 (SE x 21) just set

Staff compass 0° var. : 100' tape

①	N 51° W	97.	
②	N 73 $\frac{1}{2}$ ° W	171.3	
③	N 45 $\frac{3}{4}$ ° W	546.6	
④	N 29 $\frac{3}{4}$ ° W	285.3	
⑤	N 37° W	817.8	
⑥	N 43° W	462.3	
⑦	N 35 $\frac{1}{2}$ ° W	127.	
	all down steep hill to swamp		
⑧	N 12° W	336.2	in "
⑨	N 39 $\frac{3}{4}$ ° W	65.3	To rd. junction
	Mc Grath camp to N 40° W 150' ± ahead of junction		
⑩	S 61 $\frac{1}{2}$ ° W	568.6	along sleigh haul

(22) Continued

January 9th 1934

Overcast +20°

Rt with Duzynski + Guger - snowshoes
 Continue traverse (right fork)

⑪	S 77 $\frac{1}{2}$ ° W	211.3	
	@ 40' old sleigh haul	to S 30° W	
	211 "	S 15° W	
⑫	S 70° W	450.5	} = 971.2 all in swamp
⑬	S 70° W	520.7	
⑭	S 59° W	160.8	
⑮	S 51° W	194.	
⑯	S 64° W	517.2	
⑰	S 67° W	138.4	
⑱	S 62 $\frac{3}{4}$ ° W	210.	
⑲	N 65° W	118.8	
⑳	S 62° W	388.7	
㉑	S 76 $\frac{3}{4}$ ° W	341.7	
㉒	N 72° W	280.8	
	@ 55' should cross line of Secs 1 + 2		
			1475' N of Sec. Co.
㉓	N 48 $\frac{3}{4}$ ° W	144.4	
㉔	N 16 $\frac{1}{2}$ ° W	226.8	
㉕	N 54° W	304.7	
	parallel +60° S of ridge of hard land		
㉖	N 72 $\frac{3}{4}$ ° W	137.	
	@ 63' in swamp	in NW x do + enter higher	
㉗	S 56° W	503.6' above first	495.2

January 10th 1934

Overcast. 25°

R# with Duszyński + Pogordec.

Look for ξ & ζ at traverse - no signs.

Investigate possibilities of crossing on
reef between hi. + slow swamps.

Follow reef S about $\frac{1}{4}$ mile + come
to end. Open marsh 3 or 4 hundred
feet wide.

Meas. $N47^{\circ}E$ 980' from (26) + look for
 $\frac{1}{4}$ S bet 1+2 (no signs of it).

Jan'y 11th Continue trav. (22)

(28) $S82^{\circ}W$ 236. Thence leave straight
pleigh haul

(29) $N54^{\circ}W$ 451.2
to point just SE of Norway island

(30) $N38^{\circ}4'W$ 108.8 to BC 12^c or
station (17)

Project thru 36 (39-4)

1-2-10-11 (38-4)

14-10-15-22

Thence Sly along
to connect with
#2 Fire lane etc.

January 11th + 12th

R# with Duszyński. Wojciechowski + R. Roesler
traverse across logical crossing of
swamp at Gilkey Anson Camp.
+ continue SW on Lassart's blazes.

January 16th

R# with Duszyński. Guger. Wojciechowski
Run trial tang to Gilkey Anson camp
but fell too near swamp to
make good curve.

January 18th '34

Overcast - Calm. 20°

R# with Duszyński, Guger + Wojciechowski
Re-run tangent - producing tang (11) on
page 64 $S22^{\circ}4'W$.

N.B. (17) thru Sec. 36 meas. in chains + decimals
End of 10° Curve in NW corner of sec. 1-38-4
+ approx. on line of sec. 1+2
= Station 103.15⁵ ch. from Beginning (17)
= 6808.

Im Sec. 2. (38-4 E.)

- from page 64

(11) S 22 1/2° W 2287. (calc.)

@ 114 EC 10°C

+ Tang 1960

2074 BC 16°C right. * Maple 2' N 56 E 458
WP Sp 24' N 16 W 589

length " " 387.4

P.L. 2 do 30 855 W 13.5
do 30 862 E 20.7

(12) S 84° W 633.5

@ 213 EC 16°C * Poplar 5' N 10 W 287
* Birch 3' S 22 W 31.9

+ 327.7 Tang.

@ 540.7 BC 12° Curve right

= Sta: (9480.)

Enter Swamp at.
Leave " "

(9280.)

(9505.)

(13) N 74° W 200.

@ 92.8 EC 12°C = (9663.3)

+ Enter Swamp neck "

@ 133.6 BC 16°C left (9704.1)

length " = 131.3

Leave swamp (9770.)

EC 16°C left. (9835.4)

9704.1

131.3

9835.4

(14) S 85° W 308.5

over island

@ 66.4 EC

+ 149.5

@ 215.9

BC 16°C left

length " " 181.3

EC 16° on large island (10,166.2)

(9835.4)

149.5

(9984.9)

181.3

(10,166.2)

(15) S 56° W 189.5

@ 92.6 EC 16°C

6.5

@ 99.1 BC 24° right

length = 172.9

10,166.2

6.5

(10,172.7)

172.9

(16) N 82° W 189.5

@ 90.4 EC 24°C = 10,345.6

+ BC 21°C left

length. 189.3

189.3

(17) S 57 1/2° W 386.7

@ 99.3 EC 21°C

+ 25'

= 2 mile post

Tang 165.8

@ 265.1 BC 40°C left = 10,700.8

length " 201.6

EC 10,902.4

10,534.9

(10,560.)

201.6

(18) S $23^{\circ}10'8''$ 223.7
 @ 121.6 EC 40° C. 10902.4
 + 38.6 Tang
 @ 160.2 BC 28° C left. 10941.0

(19) S 57° C. 147.4
 @ 63.5' EC 28° C.
 length 123.2 11064.2
 - 25' BC 28° C night 11036.5
 Enter swamp neck. 11,144. <

(20) S $\frac{1}{2}^{\circ}$ W 179.
 @ 85.2 BC 18° C left = 11216.6
 leave swamp neck 11233.
 @ 112.3 EC 28° C st. 11243.7

(21) S $33\frac{1}{4}^{\circ}$ E 253.5
 @ 93.8 EC 18° C - 11400.
 length " 182.4
 @ 124.4 BC 16° C night 11430.6
 length " 248.4 11679.7

(22) S $6\frac{1}{2}^{\circ}$ W. 305.2
 @ 129.1 EC 16° C "
 @ 177.8 BC 4° C night 11727.7
 length 254.6

(23) S $16\frac{3}{4}^{\circ}$ W 292.2
 @ 127.4 EC 4° C
 (length " 254.6) 11982.3
 @ 133-173 Swamp = 11988.
 at narrows. + 12028.
 @ 176.9 BC 20° C left = 12031.8

(24) S 26° E 248.6
 def. $43^{\circ}50'$
 @ 115.3 = EC 20° C.
 length " 219.2 12251.
 - 1.3
 @ 114 BC 24° C night 12249.7
 length 245.1 12494.8

(25) S 32° W 234.
 @ 134.6 EC 24° C "
 134.9 BC 20° C night 12495.1
 length 190.8 12685.9

(26) S $70^{\circ}08'W$ 301.6
 @ 99.1 EC 20° C "
 @ 183 BC 16° C left 12769.8

(27) S 33 $\frac{1}{2}$ ° W 429.1 to 4th Sec 11
 * 481.1 E of W & cot.
 @ 118.6 EC 16° E.
 length 229.2 = 12999.
 @ 253.3 BC 14° left. 13133.7
 Set aluminum card on post
 on Sec. line 498' E of from S.

(28) S 12 $\frac{3}{4}$ ° E 677.6
 to rim of swamp.
 L turns 46° 35'
 @ 175.8 EC 14° 13133.7
 length " 332.1 13465.8
 2 $\frac{1}{2}$ mile post = 13200.
 = 66.3 beyond B.C. 14°
 @ 488.7 BC 10° C. nt. 13778.7

(29) S 24° W along rim.
 L turns 36° 26'
 @ 188.9 EC 10° C. 14091.6
 (length 364.3)

A.B. —

Rt with Duszynski, Gugen & Wojciakowski
 worked Feb. 6-7-8-9-12th 13th
 on above E curves, (ground frozen)

In Sec N-38-4 E.
 Feb. 13th - 34 fair 15°
 Rt with Duszynski, Gugen & Wojciakowski
 Set aluminum loc. markers on line of 2+11
 at 498' E of W & cot.
 = about 15' W of E.
 Mark 2 $\frac{1}{2}$ mile point on birch.
 Chop in E stakes on curves (25) to (29)

Feb. 14th 34 Overcast 25°
 Same crew
 Continue.

(29) S 24° W. 553.4
 @ 188.9 EC. 14091.6
 @ 249.3 lin picket 97.8
 @ 286.7 BC 10° C. right. = 14189.4
 553.4 course made S 23 $\frac{1}{4}$ ° W
 L " 49° 55' right.
 " 47° 57' int.

(30) S 73° W. 1264.7 L
 @ 271.8 picket C 10°
 @ 266.7 EC 10° C. (length) 499.2 14688.6
 @ 1069.4 BC 21° C. left = 15542.9
 1264.7 made 574 W 264.14
 " rim to S 30° ± length 15807.3
 S 18 $\frac{1}{2}$ ° W L 55° 32' 55° 32'

- (31) S 18¹/₂° W 300. 52.7
 255° 35'
 C. 21° → 15807.3
 511 @ 92.6 picket
 @ 143.7 EC Ext. 35.5 (3M.) 15840.0
 @ 216.6 BC 16° → 15880.2
 198. 164.
 26° 14' C 16° (164) → 16044.2
 @ 83.4 EC
 87.1 BC → 16047.9

See line?

- (33) S 78¹/₂° W 297.3
 34° 25' C 16°
 110.9 EC 107.12 length 21.51 → 16263.
 @ 165.7 picket 82.7
 193.6 BC 5° C → 16345.7

- (34) S 89° W 265.2
 AS made 78° W
 10° 24' right. 5° C. → 16552.7
 @ 103.7 EC
 @ 125.9 picket
 142.2 BC 8° C left → 16591.2

Feb 15th '34 Fair +10° to 20°
 R.H. Ed Smil - Tony. (Same party)
 Continue transect trav. along rim

5240/1745° to end of fill
 238 miles is completed
 by July 21
 '34

- (35) S 69³/₄° W try 8° C 503.
 19° 29' left. 99.44' neg. 19' ext.
 @ 91' picket.
 123.0 EC 8° C → 16834.7
 379.1 BC 16° C, right → 17090.8
 @ 398.2 picket

- (36) N 72° W. 298.2
 38° 10' right 109.00'
 @ 77.9 picket
 123.9 EC 16° C. → 17329.3
 131.0 BC 16° C left → 17336.4
 298.2 Interest over picket line over
 Beaver flowage at
 633.2 N 58³/₈° E Top of ridge ^{W.} _{top}

- (37) S 57³/₄° W 633.2 across flowage
 50° 03' left.
 @ 167.2 EC 16° C. → 17649.2
 + 466.
 Sand channel. (5 places)
 Bottom only 2.5' to 3.8' below top of ice.
 Should be OK for fill.

→ Picket on hog back → 18115.2

Feb. 16th 1934

Fair +4° rising temp (until 11 AM only)

RH. Duszynski - Jenger & Wojciechowski

Stake 10° Curve at (29) 50 chds.

" 21° " - (30) 25 "

NB.

Scale shows Sec line between 10+11 crossing
transverse line (var 3° E) " sta (32) + (33)

170 beyond (32)

1778 S of Sec Cor.

170
59 =
beyond EC
24 chds of PC

170
59
beyond E.C.

2640
1778
862

12.12
92
13.04
22
26.12

2612

28732 p.

S of trans.

01301

= 879 steps = 2 mi

1758 = 1

439.5 1/4

21.3
40 | 852 steps
52
520
40
120

22.65 ch.
40 | 906 steps
80
106
80
200
240
300

21.3
22.65
2 | 43.95
21.975 ave. snowshoe
steps per ch.

Feb. 19th '34

Fair -14° at 6:30 AM.

Duszynski, Wojciechowski & Roseler
stake out curves at (31) (32) (33)

Sec 32 - 39 - 5 E.

RHall + H.J. Mc Ginnis

Cross W. from NE x 32 (orig.)

Pace - (snowshoes) var. 2 1/2 or 3° E.

50 steps ± (16)

All rotting poplar + scattering Y. Pine

860 ± enter swamp NE x SW.

906 Orig 1/4 S bet 29 + 32

Old post. seems to agree with
Orig NE (B.T. other log not
visible - large cedar SE well
blazed by cruiser's.

Clump of Norway just SE at edge of swamp.

P.M. RH + H.J. Mc G.

Continue search for E 1/4 Sec. 23 - 38 - 4

+ look for cedar

no luck. No blazes to be found
in vicinity altho much old cedar-birch
+ Tamarac remains in swamp.

8-38-5.

Cruise 4th NW $\frac{1}{4}$.Feb. 17th - 1934

Overcast +25°

R.H. Hall. H. Freund A.R. Johnson

Pace S from Orig NW x Sec 8

Var $2\frac{1}{2}^{\circ} E \pm$

Steps (on snowshoes) = ? ch.

- 76 old Crouch road E+W
 350 apparent line of old cutting E+W?
 429 enter arm of swamp E+W
 — to 534 point of land from W
 789 fall 5 steps W of old flage
 849 old squared up stub
 859 line of old flage W.
 1110 intersect NW shore Smith lake on bog
 bo. NE & SW.

80.00 rec

- 30.40

49.60 ch. rec) 40.00 (.8065

x 1110

895 P.R. ✓

Set flag at apparent loc. of $\frac{1}{4}$ cor.
 Pace E
 279 over lake
 298 set flag.

(between corners mark & squared stub) ✓

Sec 8-38-5

E+W $\frac{1}{4}$ line.Feb. 18th 1934

Fair +15°

R.H. Hall - Geo Hunt & A. Thall

Run W thru brush

Pocket Compass Var $3^{\circ} E$.

Chain tape

0 = Orig. E $\frac{1}{4}$ cor.20.00 set trap tamarac picket in
arm of swamp

22.00 Enter main " N+S

33.00 br. swamp at S. side of knoll

" Fall 4' ± S of flag Jossart + I
set last summer!Feb. 20th 1934 +15° Snowing.

RH with John Holck & Bernard Kusba

from Pinkowsky's crew.

Run transit picket line W from E $\frac{1}{4}$ V $2^{\circ} E$.

temp stake under transit & turn ←

W to S to 33 ch. stake

63° dist 62.5'

215.0' thence by stadia 140 + 3.7' + 250

= 2542 picket + to camp.

Continued

Feb. 21st 1934

Fair +15°

R.H. - Duzynski - Geger - Wojciechowski

Continue transit random west.

100' tape

2150.

2542 picket Var. 2°-02' E

3042 " " 1°-15' E

3335 " at E edge narrow swamp

3944

4474

+ turn ← right to flag at
approx. W $\frac{1}{4}$ (very close to $\frac{1}{4}$)
① 94°-51' ② 49°-40.5'

915.8'

Sin " 42024 x " = 384.8"

Cos. .90741 x " = 831.'

∴ 4474

+ 831

5305' fall } 384.8 S of 7' E (at 90°)
 } .07254 = 8 Tang 4°-09' fell S.
 } " x 2150' = 155.9'

Consect N. 155.9' at 2150 (at. ←)

Thence E by S to E 85°-51' + stake cutting
line thru Cedar swamp.

5319' = approx. true Vline length. ✓

Continued in S $\frac{1}{2}$ NE $\frac{1}{4}$

10-38-4

Feb 23rd 1934 Fair -17° to 0°

R.H. Hall. Duzynski - Geger + Wojciechowski

Look out route beyond beaver plough.

By projecting tang, which crosses " (S 57 $\frac{1}{2}$ W)
about 250' beyond "+ then bearing S 68° W we have level
route except for grade just SW of plough
but will not intersect RR bed until we
reach 4+10.Therefore we take logical route WNW to
intersect RR not far S of plough.

from page 133

③ S 57 $\frac{1}{2}$ W 707.7

@ 167.2 EC =

296 to hard land mark

458-485 neck of stump

583 over channel (2 to 4' deep)

633.2 flag on top of ridge.

~~594.8 BC 16° E right.~~Aug 8th 1934 alter course beyond beaver plough

633.2

- 97.8

@ 535.4 BC 10° curve right - thru ridge -

Chain tape Tang 1,482.978

Thence S 65° W PC
about .6 mile straight. Ext'd .189 = 12.5'

(38) $N 87\frac{1}{2}^{\circ} W$ 390.
 @ 90.4' a picket - slight plus gr.
 112.9 EC.
 217.3 BC 6°C. st. 18400.
 → $3\frac{1}{2}$ Mile p. 18480 ←

(39) $N 67^{\circ} W$ 224.
 @ 172.7 EC 6°C st.
 + BC 3°C st.

(40) $N 64^{\circ} W$ 778.
 @ 50' EC 3°C.
 597.9 BC 14°C left.
 778 ± RR
 " bn. $S 68\frac{1}{2}^{\circ} W$

length 14°C 339.3 = 19730.2

Join old RR with 20° Curve left.
 $S 65^{\circ} W + S 5\frac{1}{2}^{\circ} W = 59\frac{1}{2}^{\circ}$ Tang 1.637 ch
 est .435

from Pin L. Rd.

Curve attend

EC 16°C N bank. 17649.2
 Tang. 368.2
 BC 10°C right. 18017.4
 length do = 191.4
 EC do 18308.8

NE Quarter - meas. thru brush.
 March 2nd 1934

Overcast - Misty.

R.H. Hall - Ed - Emil - Tony

Orig $\frac{1}{4}$ S between 29 & 32

NE bag OK - Snow deep - could not
 be sure of other. Post found
 does not seem to check exactly.

Pocket Compass var $2\frac{1}{2}^{\circ} E \pm$

0.0 = $\frac{1}{4}$ cor at E. edge swamp.

15.61 Creek .05 $\frac{1}{4}$ by

21.00 Approach hard land (to NW 1st ch)
 and follow along do

22.00 leave swamp SW

26.00 ridge - foothills

26.32 Tower bears 216°

29.00 on NE shoulder 50 or 60' above
 bottom

+ about 12' S of W. P. stub

36.42 New telephone line to 330°

38.27 $\frac{1}{4}$ old Tower road

39.24 fall $1.84\frac{1}{2}$ N. of a squared
 picket. (Some one's idea of cor.)

40.10 US Record + look for NW n 32

Fail to find any evidence

Might be possible on bare ground?

40.10
 -38.27
 1.83
 1/2 of road.

NE Quarter 31-39-5 \pm

March 3rd 1934 mild 35° 40°

R.H. Ed + Emil

Continue West thru brush var $2^{\circ} E \pm$

People + scattering Y. Pine reproduction

0.0 = sta 40.10 (page 142)

11.86 Enter swamp - all open

to S 2 ch: Thence SE 3 or 4 ch

15. hills br. S

6 or 7..

23.37 br. swamp N.W

and S. about 1.50 thence SW into pocket

41.18 to old road (or grade?) NE + SW

Note - Record says 41.10 to "trail" NE + SW!

Fail to find any evidence \checkmark

Note - Don surveyed Sec. 30 + subdivided
 same in 1890. Had orig $\frac{1}{4}$ of 30
 then. Should try to find his $\frac{1}{4}$ corners when snow goes.

Don's $\frac{1}{4}$ 30 scales N66E over 135' from Junction
 runway + Shafer's $\frac{1}{4}$.

Center SW $\frac{1}{4}$ N66E 110' from sta (30)

" S E of C " North 230'

" " " East 160' } from P.L. 14 C.

" orig $\frac{1}{4}$. 970' S of $\Delta 10$ on Squirrel L. Rd.

4118
 3337
 1781

144 NE NE 31-39-5 ±.

for culture + mining - liberation etc.

March 5th 1934 Snow + rain

R# Ed Emil Tony

Blaze poplar line around approx NE NE

Beginning at squared picket found 184 1/2 deg 39.24

West 20 ch. Thence S.

6.62 br. Swamp NE + SW
near SW x swamp.

20.00 Thence E.

13.15 } N. end narrow swamp

14.55 } br. N 1 1/2 ch.

S 3 "

19.00 enter N tip thick swamp.

20.00

Thence N. out of swamp + over W. shoulder
hill to S.P. O.B.

13-38-5 (April 14 '37) 145

Random 4W

March 6th 1934 15° Fair. Windy

R# Ed Emil Tony

Set hub at 80.432 on random \$135/4

See Book 10 page 72

Thence Nly at st < .895 + drive hub

for temporary Cor to 13-14-23-24

{ W.P. stump 12"
br 130° W ± .14

(from 80.434)

Rm. N on random - assumed to be Meridian

by < E to N off random \$ 89°-53.5°

10-0 Var 4° 05' E.

→ Course of this random later determined

- 1.341 Orig .067 W as NO-16.5° W ←
1.299 Imp't cor. 1.292 W randomness.

0.0 Temp cover hub (.895 N of random)

8.10 hub

.103 W.
-0.056 W

13.50 enter alders

E+W (Rec. 1300)

15.02 hub var

6° 47' E

.129 W
-0.087 W

19.73 br. swamp

18.439 at < 102° W.

for 1/8 S.

18.49 - .142 W

.. ..

1.399
-0.095
-0.504 ✓

21.76⁹ hub over base low ridge
Swamp to W NW indef
Jack on ridge are 3 or 4" dia
+ Poplar

27.055 hub Var 3° 30' E ^{.175}
~~44 W~~

29.141 " " ^{.150 W}
~~183~~

Wednesday March 7th 1934

Fair +2° at 6:30.

+10° Same Cross continue random

29.141 hub Var 4°-03' E

" Observe Sun

Sight \odot on 180° (random)

① 9:19 AM Cent. Std. time

ret = 26°-14' Calc.

Az 131°-12.5'

② 9:21.5 AM

ret 26°-36' Calc.

Az 131°-53.5'

31.15 old trail E+NW

32.60 " " E+W (junction about .75 W.)

2.84

33.474 hub on N. side shallow gully
+ enter higher ground - poplar + jack

36.318 hub ^{.182 W} up on flat ^{.211} var 3°-06' E
poplar 2 + 3" dia. predominate

38.277 at \angle W. ~~181~~ for $\frac{1}{4}$ S.
38.321 ^{.218}

2/28/40 Set Comby mon. 1' exposed

$\frac{1}{3}$ -08' { Jack 7" 319°-28' N 40°-32' W .82
T.A. 2 " 5" 38°-10' N 38°-10' E .431

40.00 pitch hub at US record ^{.225}
~~199 W.~~

42.718 hub on N. slope ^{.214 W}
~~235~~

43.75 Enter open marsh
bear N 80W + East
" 3ch into pocket 1ch. wide
th. S & E

1.72
50.55 hr. same swamp.

52.276 hub var 4°-50' E ^{.271}
~~254 W~~

53.80 re-enter same swamp N.NW.

1.52

54.15
53.80
52.276

53.80

43.75



53.15
38.277
5.07

LW 13-38-5 E.

(Continue N 0°-16.5' W)

58.115 at W. .280 for 8 S.
58.152 .2932/28/40 Set 9 y.P. posts marked: N 16° S 13/14
231° 20'
V 4° 7A. Jack 7 at top edge S 51° 20' W. .67
" 5 " " N 85° 15' W .713

64.67 leave swamp about 2 ch E of NW x do

66.07 hub

68.

69.25 N to cor 1 1/2 acre marsh

70.00 7 rows to E 5 ch ±

71.151 Hub ^{.332} on ridge E & W. Var 3° 50' E
+ enter thick small pople + jack

" Observ 3 sun in relation to random 180°

(7) 3:43 PM +15° F

vert 20° 30'

Az 238° 42'

(8) 3:46 PM

vert 20° 06'

Az 239° 16.5'

66.07

58.152

7.712

66.070

Continued

March 8th 1934

variable 15°

RH Ed Emil Tony.

75.83⁶ Hub var 2° E .361 w.

77.366 fall .07 W. of an old Orig?

B.T. which is a jack - originally
about 5 or 6"

Figures 38 N R 5 E S 13 are plain

Exposed in pine days.

Faces about N 20° W.

Cannot tell if "B.T." was cor^{the}

77.954 at W. (192 + 177) = .369 for Cor. to

11-12-13-14 set on

double pro-nate meas.

pple S 1.72

SE 2.6:

7/15/35 Set new post *

var 0 } Orig Jack 11' S 39° E .729

New " 3' S 42° W .628

8/15/35 Set Cons. Mon. .029 & 9* = @ 77.983

Orig. S 35° E .751 New Jack S 43° 05' W .648 V 3° E

80.00 pitch hub on top of knoll about

.50 @ of N shoulder. Find no

evidence of aspens

Var. 3° E.

84.48 \$ old road NW & E in open valley

E & W. Scattered pople + scrub

jack

true line calc N. 0°-32' W
79.353

4W Sec 12 38.5
continued

86.599 Hub on S. edge plateau .34 ✓

90. & body of young Norway brs W.
about $\frac{1}{4}$ mile.

95.253 Hub var 3°-19' E .31 ✓

all poplar-rolling 3"

103.815 Hub var same. .281 ✓

97.792 at W. .30 for $\frac{1}{8}$ S.
.514 .301

109.70 Enters Swamp in W edge sag
General course E to W. Rec. 113.

112.82 & Kaubeshin Creek .50
from NE to W

113.891 picked .247 ✓

118.618 Hub .231 ✓ just S of head in river

117.630 at W. .234 for $\frac{1}{4}$ S.
117.645
.973

Gort Record

to from Box 13

13.00 enter Swamp

23.00 br "

40.00 $\frac{1}{4}$ cor.

45.50 enter Swamp NW SE

67.00 over " "

80.00 Cor 11-12-13-14

(80.80 E. to Range line)

113.00 enter Swamp NW SE

115.00 Stream .50 SW

120.00 set $\frac{1}{4}$ cor

136.00 br marsh NE SW.

160.00 set cor 1-2-11-12

LW 12-38-5.
continued

March 9th 1934 Fair -5° F.
R# Ed Emil - Tony
118.618 Hub var 4°-04' E .231 ✓
119.22 E Kanbeshin Creek
" hrs. d. road thence S 4 ch.
120.00 Record in E creek runs South
120.78 " " for NNE
133.78 picket at N edge marsh (18)
" hrs N + SW
134.098 Hub var. same .179 ✓
" leans E.
Set auxiliary B.S. 4" E
" Observe Sun
of (a) 10:21.3 AM
v 34°-11'
Az 147°-07'
(b) 10:47 AM
v. 36°-23'
Az 154°-29.5'
135. edge of swamp hrs N 40° E

157.307
157.307
19.835

137.468
117.630
19.838

137.468 at L.W. .167 for S.S.
137.476 " " .167

144.577 Hub var 4°-33' E .143 ✓ w of hub
Offset transit 4" E to pass 7" jack
154.886 Hub on (" offset E) .113 w of hub

157.341 transit + right E. on offset 180°
Post we set last summer with
Pocket Compass hrs. 232°-10' on line with
Orig B.T.
on S 52°-10' W
Rec = S 48° W

4°-10' correct - .52 =
.038 to move
post NW.

Frost interferes with changing post
Correct corner location hrs 252° .11

from 157.341
∴ 157.307 at L.W. to true corner .105
- offset
at L.W.

.10
.00064
= Tang
0°-02.2' ✓

Cor 1-2-11-12

(Calc. location new bays from transit)

Orig. Cor.

Var 5°00'E	} Do	N. Pine 14° S 14°25' W	40 ⁵
		26° N 87°22' W	27 ⁸

Time Az.

June 26th 34 Duszynski, Chappelle + Kirby set Wis. Cons. Mon. ✓

Since we find Random to be N 0°-16.5' W.
+ correctn " " 02.2

Straight line from temp SW x 13 = $\frac{157.307}{15.7307}$

Find D.H. Vaughan's N $\frac{1}{8}$ cor on 4th Sec 1-38-5
Post in fence line N + S
West bearing OK other gone.
Mark new

0° Var.	} W. Pine 10°	N 6° W	3,467	
		D.H. Tam 8	N 4° E	47
		5	N 76° W	07 ✓

Note - D.H. ran N. from $\frac{1}{4}$ bet 1 + 2 in April 1903
var 2° E

Rec $\frac{35.89}{35.00}$ fell 1.08 $\frac{1}{2}$ E of Orig. Cor. on Tpl line
35.) 89 ramp. (.02543 x 15. = .38 ✓ $\frac{15.38}{20.57}$
35.89 ✓

Sec 11 - 38 - 5

\$ SW $\frac{1}{4}$ randomMarch 10th 1934 AM

R. Hall. H. J. McGinnis. H. Freund
H. Ahlborn. A. Johnson. A. Thrall

Ran due East from Orig. SW x
As near as possible considering snow
+ right off old random W " "
run last Summer.

Var 3°55'E.

0.0 Orig. SW x 11

4.095¹⁰ hub in swamp + more N $\frac{1}{2}$ lk.

B.S. on post (= 0°-04.2')

Course from here E = N. 89°-55.8'E

4.81 lv. swamp NW + SE

5.982 hub + offset B.S. N $\frac{1}{2}$ lk.
To pass toward ^{13°} at

9.74

12.10 enter swamp.

13.18^{13.18} hub in bottom

13.58 lv. bottom N 6°

15.06 hub on ridge var 4°25'E

20.00 temp stake in flowage

31.00 hub (spike)

11-38-5
continued

March 12th 1934 Overcast 25° F.

R# Ed. Emil. Tony.

Re meas. same random

Make	hub noted	4.075	4.10
		13.185	13.18
		15.06	15.055
		20.00	19.992

17.776 Squared up stub $\frac{1}{2}$ lk N. of line
 18.40 enter Tomahawk bottom N 22° E
 19.992 Hub for 20 ch.

21.19 } Tomahawk R. from N. 6 ch.
 22.18 } then to E 2 ch. Th. SW.

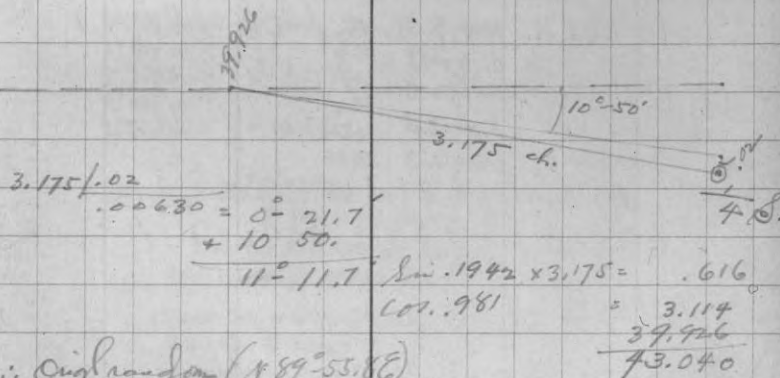
30.39 lv. bottom N + S
 30.991 spike for 31 ch.
 34.655 Hub + tack

We miss S. edge State timber
 by 1 rod ±

37 to 38 SW swamp to NE 4
 39.926 Hub Ver. 4° 55' E

August Ahlborns post to S 47.56
 " " " E to S 84° 24'
 " has line N thru state timber

" turn def. & right to point 2 lks N 7
 from Oig^l $\frac{1}{4}$ S between 11 + 14
 10° 50' W.
 @ 21° 40'
 " to post meas. 3.175 ch.



∴ Oig^l random (N 89° 55.86 E)
 43.04 at L S. .616 - .005 = .611

"
 ".01420 = Tang 0° 49'
 + N 89° 00' 55.8
 0° 44.8
 - 179 60
 89° 15.2 E
 43.044 ch.

Random $\$ 2-38-4$

January 30th 31st Feb 1st 2nd 1934

fall. Duszynski, Geger + Wojciechowski
-19° to +25°

Run picket line N 85 1/2° E with PC 0° var.
from old post in marsh at Orig SW cor 2.

371	hr. Swamp	NE.	
1310.8	at \angle N for 1/8 S	62.4'	
PC	{ W.P. stp. 24"	S 54 E	12.4'
	{ do 24"	N 32 1/2 E	38.5'
	{ Pople 7	N 45 1/2 W	13.7'

39.768 ch.
= 26.247
1188
5835
207
True length W 1/2 = 26.247
W 1/2 of half way pretty good.
4 cor is 1.4" W. of half way.

1728.7 mark stp of poplar
1940 - 2163 marsh. .0476 = 2'-4"

2621.7	at \angle N. 124.9° to Orig 1/4 cor.	(stb. of pine only)		
P.C.	{ W.P. stp. 30"	N 14 1/2 E	55.1	.835
	{ do 20"	S 77 W	66.6	

Correct last 300' of line + produce 844
o.o 1/4 cor - no post - frozen

816.4 picket - enter Swamp S 16 W
1860 hr. do

2115 mark on 1" Norway on ridge

Continue with Transit: (N 85 1/2° E with Var 2 1/2° E) here

2200 enter Swamp NW.
2626.2 at \angle S 94.9° to Orig S E cor. set new post

V 2 1/2° E	New	{ Tam stb. 8"	S 1/2 E	27.6'
		{ " " 8"	N 62 W	53.6'

1/4 is 47.4' N 7 at line

True length E 1/2 = 26.275
= 39.811 ch.
.03614
2'-04"

KEITH'S RAILROAD CURVE TABLES.

Published by KEUFFEL & ESSER CO., New York.

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HOW TO USE KEITH'S TABLES.

EXAMPLE.

Wanted a Curve with an Ext. of about 12 ft. Angle
of Intersection or I. P. = 23° 20' to the R. at Station
542+72.

Ext. in Tab. IV opposite 23° 20' = 120.87
120.87 ÷ 12 = 10.07. Say a 10° Curve.

Tan. in Tab. IV opp. 23° 20' = 1183.1
1183.1 ÷ 10 = 118.31.

Tab. V. correction for A. 23° 20' for a 10° Cur. = 0.16
118.31 + 0.16 = 118.47 = corrected Tangent.

(If corrected Ext. is required find in same way)
Ang. 23° 20' = 23.33° ÷ 10 = 2.3333 = L. C.

2° 19 1/2'	= def. for sta. 542	I. P. = sta. 542+72
4° 49 1/2'	" " " +50	Tan. = 1.18.47
7° 19 1/2'	" " " 543	B. C. = sta. 541+53.53
9° 49 1/2'	" " " +50	L. C. = 2.33.33
11° 40'	" " " 543+	E. C. = sta. 543+86.86
		86.86

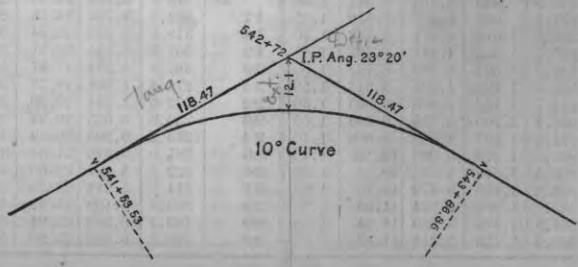
100 - 53.53 = 46.47 × 3' (def. for 1 ft. of 10° Cur.) = 139.41' =
2° 19 1/2' = def. for sta. 542.

Def. for 50 ft. = 2° 30' for a 10° Curve.

Def. for 36.86 ft. = 1° 50 1/2' for a 10° Curve

(These tables are published in Field Books of
KEUFFEL & ESSER CO., New York, N. Y.)

39.768
39.811
79.579



Curve data

Effects in feet for 50 ft chds

C		$\frac{1}{2} \text{ chd}$	effect in feet for 50 ft chds.	
1°	.43	.22	.28	.14
2°	.87	.44	.57	.28
3°	1.309	.652	.86	.43
4°	1.745	.87	1.16	.57
5	2.18	1.09	1.44	.72
6	2.617	1.308	1.73	.86
7	3.05	1.53	2.01	1.00
8	3.49	1.74	2.30	1.15
9	3.92	1.96	2.59	1.29
10	4.36	2.18	2.88	1.44
11°	4.79	2.40	3.16	1.58
12°	5.22	2.61	3.45	1.72
13°	5.66	2.83	3.74	1.87
14	6.09	3.05	4.02	2.01
15	6.52	3.26	4.30	2.15
16	6.96	3.48	4.59	2.30

$\frac{1}{2} \text{ chd}$
 $\frac{1}{2} \text{ chd}$
 $\frac{1}{2} \text{ chd}$
 $\frac{1}{2} \text{ chd}$
 $\frac{1}{2} \text{ chd}$
 $\frac{1}{2} \text{ chd}$

247 69
 319 28
 32

231 20
 180
 51

14
 42
 16
 673
 23
 170
 2857
 122
 127

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
 ROADWAY 14 FEET WIDE. SIDE SLOPES 1 1/2 TO 1.
 FOR SINGLE TRACK EMBANKMENT.

	0	1	2	3	4	5	6	7	8	9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

240
 260
 300
 370
 370
 230
 144
 145