

T 50N R 26W

3

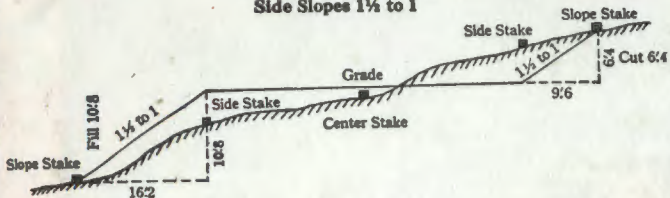
T 50N
R 26W

NO. 500W

T 50N
R 26W

T 50N
R 26W

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
 Roadway of any Width
 Side Slopes 1½ to 1



In the figure above: Opposite 6 under "Cut or Fill" and under .4 read 9/6 the distance from the side stake to the slope stake at right. Opposite 10 under "Cut or Fill" and under .8 read 162, the distance from the side stake to the slope stake at the left.

Cut or Fill	Distance out from Side or Shoulder Stake										Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

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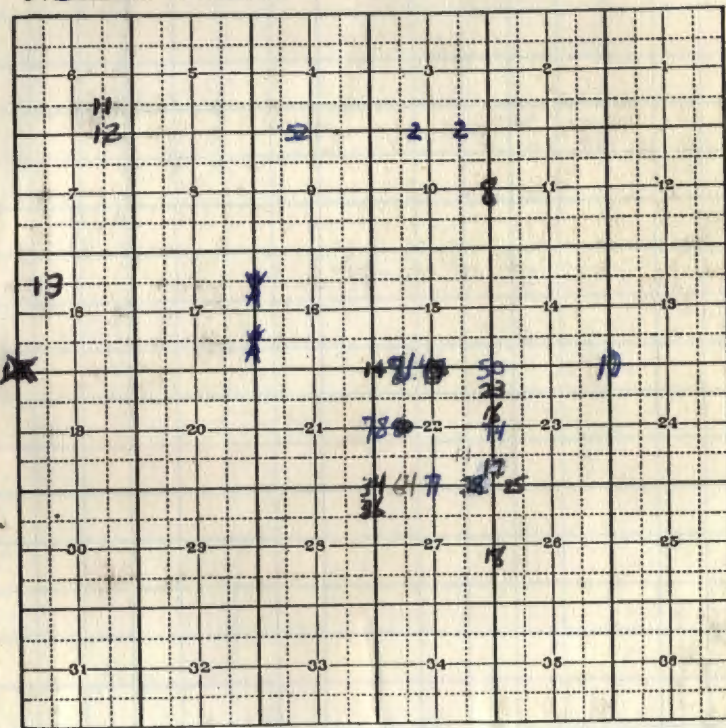
Index

- PP 19-50 Traverse around Section 22
 Pp 51 Traverse sketch sec 22
 PP 2-6 Traverse North line of section 10
 PPS3-57 Traverse between sections 27-28 and 33-34
 PP59-62 Traverse to W $\frac{1}{4}$ cor Section 22
 PP64-71 Traverse East line of W $\frac{1}{2}$ of NW $\frac{1}{4}$ & W $\frac{1}{2}$ of SW $\frac{1}{4}$ of Sec 22
 PP 79 Inverse to set MC on North Shore of Irma Lake

Blank Page: ~~1~~, ~~2~~, 58, 63, 72, ~~73~~, ~~74~~, ~~75~~, 82

1 Link = 0.201168 m

T. 58N R. 26W 4th Principal Mo.



Traverse of north line of Section 10

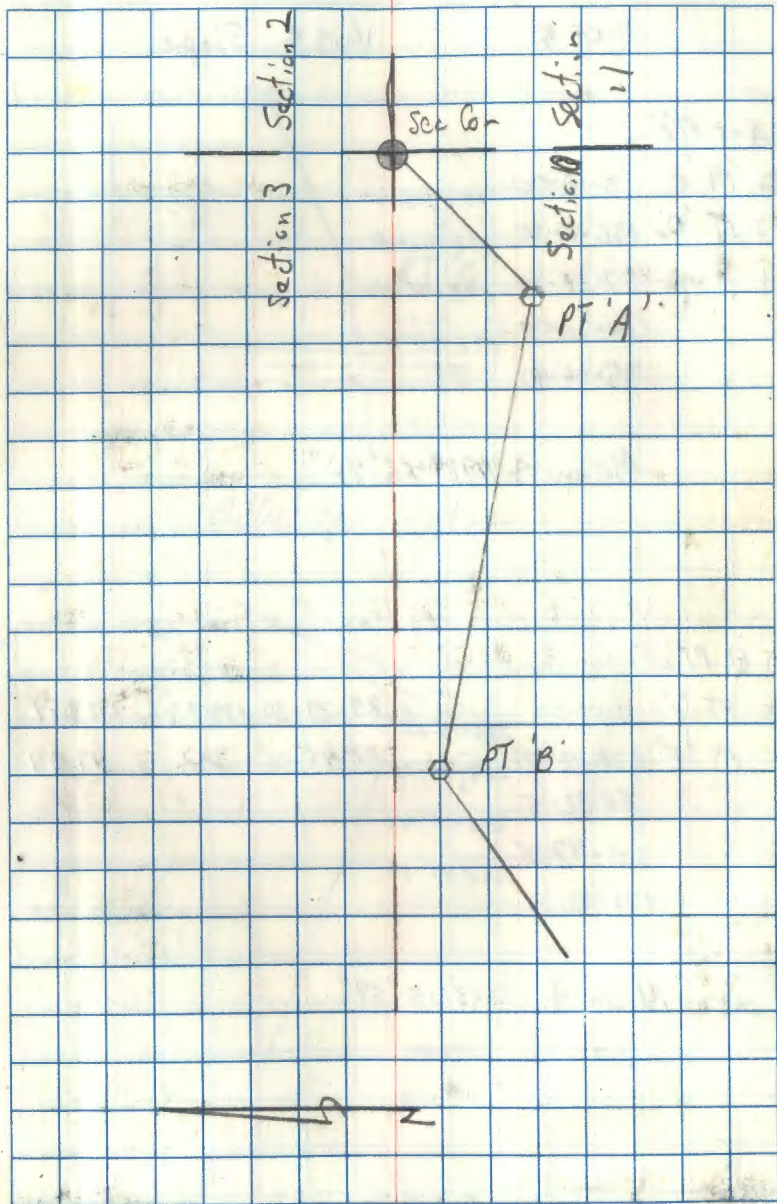
	Direct	Reverse
TI @ PT 'A'		
BS Sec Cor 3, 2, 10, 11	0-00-00	180-00-00
FS PT 'B'	206-47-20	26-47-10
Mean \angle	206° 47' 10"	
	0-00-00	180-00-00
	206-47-10	26-47-00

Dist to Sec Cor 90° 52' 05" 282.03' 282.00
 Subtract 0.20' for offset of R. L. k (281.80')

Dist to PT 'B' 88° 36' 20" 324.34' 324.24

TI @ PT 'B'				
BS PT 'A'	0-00-00	150-22-30	180-00-00	150-22-20
FS PT 'C'	150-22-30	330-22-20		
Mean \angle	150° 22' 30"			
	330-22-20	150-22-40	150-22-30	150-22-30
	120-45-00	300-45-00		

Dist to PT 'C' 94° 03' 40" 329.60 329.77



HORIZ

Vert & Slope

A to PT 'C'

BS PT 'B' 0-00-00 198-46-40

FS PT 'D' 198-46-40 198-46-40

37-33-20 198-46-40

236-20-00 198-46-40

75-06-40

Mean & 198°46'40"

A to PT 'D'

BS PT 'C' 0-00-00 223-16-00 89-29-30 1337.86 1337.81

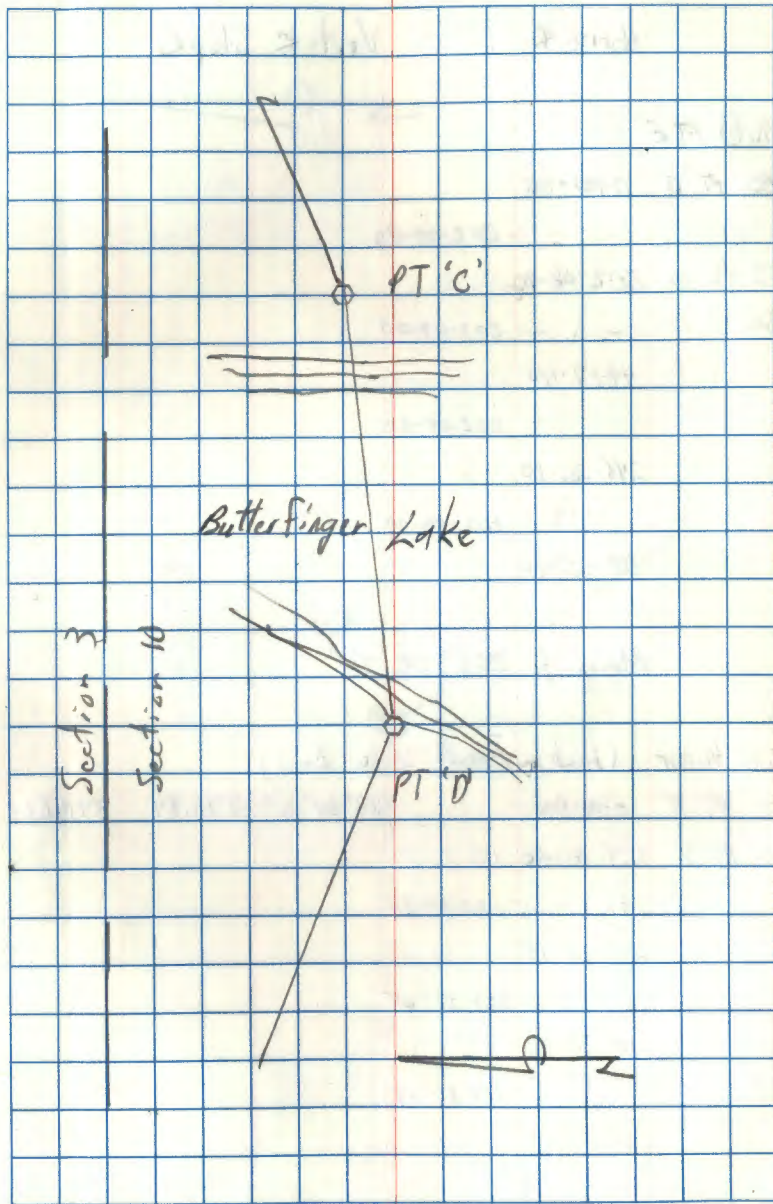
FS PT 'E' 223-16-00 223-16-15 82°46'00" 322.13 39.57

86-32-15 223-15-40

309-47-55 223-16-00

173-03-55

Mean & 223°15'59"



Horiz *

Vert * Slope

TI @ PT 'E'

BS PT 'D' 0-00-00

202-08-40

FS 1/4 Cor 202-08-40

Sec 3, 10 202-09-00

44-17-40

202-08-30

246-26-10

202-09-00

88-35-10

Mean * 202° 08' 47"

TI @ 1/4 Cor (hub w/ nail 2.30' East)

BS PT 'E' 0-00-00 89° 24' 30" 370.84 370.82

FS PT 'F' 123-30-50

123-30-25

247-01-15

123-31-05

10-32-20

123-30-45

134-03-05

Mean * 123° 30' 46"

(4)



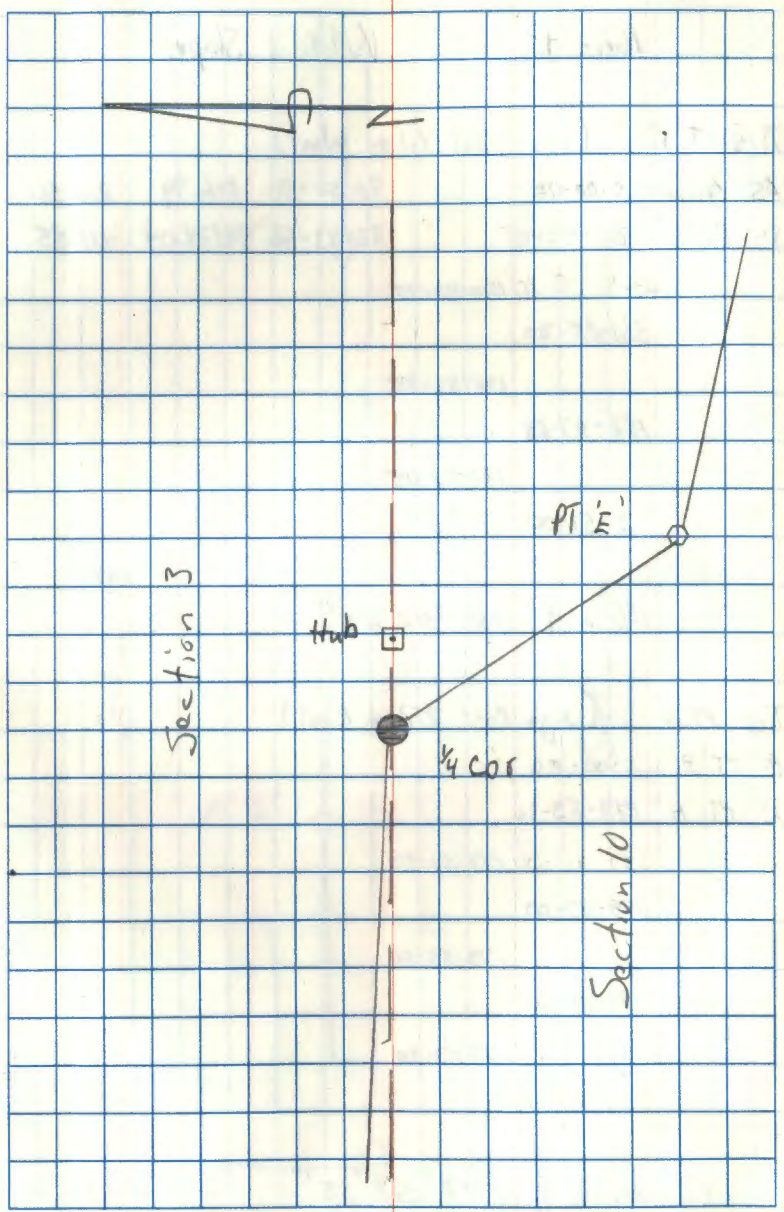
Section 3

Section 10

Hub

1/4 Cor

PT 'E'



Horiz. \angle Vert \angle Slope

AB PT 'F' (Sign Post 1.1 m West)

BS $\frac{1}{4}$ cor 0.00-00 93-50-50 216.99 216.50

FS PT 'G' 180-42-35 92-43-30 434.04 433.55

180-42-45

361-25-20

180-42-35

182-07-55

180-43-05

2-51-00

Mean \angle 180°42'45"

AB PT 'G' (Sign Post 2.8 m East)

BS PT 'F' 0.00-00

FS PT 'H' 179-53-30

179-53-30

359-47-00

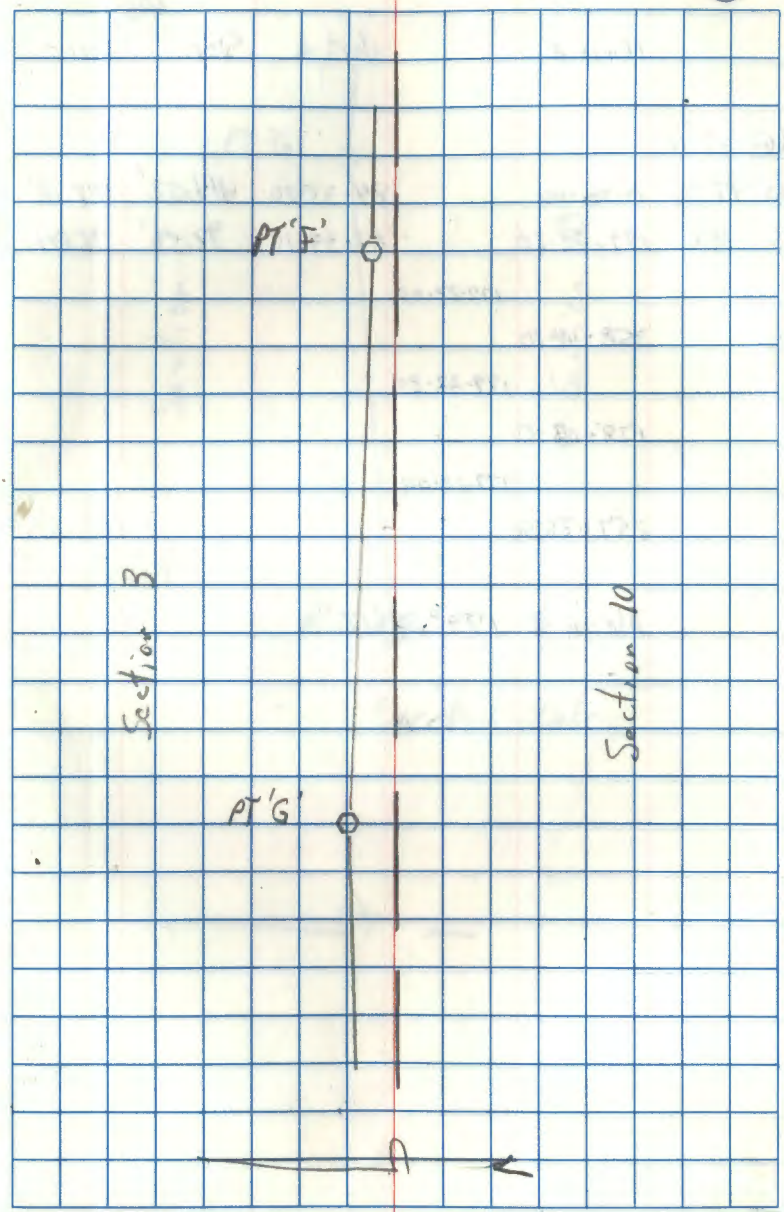
179-53-50

179-40-50

179-53-30

359-34-20

Mean \angle 179°53'35"



Dist

Horiz &	Vert &	Slope	Horiz
---------	--------	-------	-------

TR PT 'N'

RS PT 'G'	0-00-00	84-35-20	414.02'	412.18'
-----------	---------	----------	---------	---------

FS M.C.	179-22-20	102-49-10	78.50'	96.04'
---------	-----------	-----------	--------	--------

179-22-00

358-44-20

179-22-30

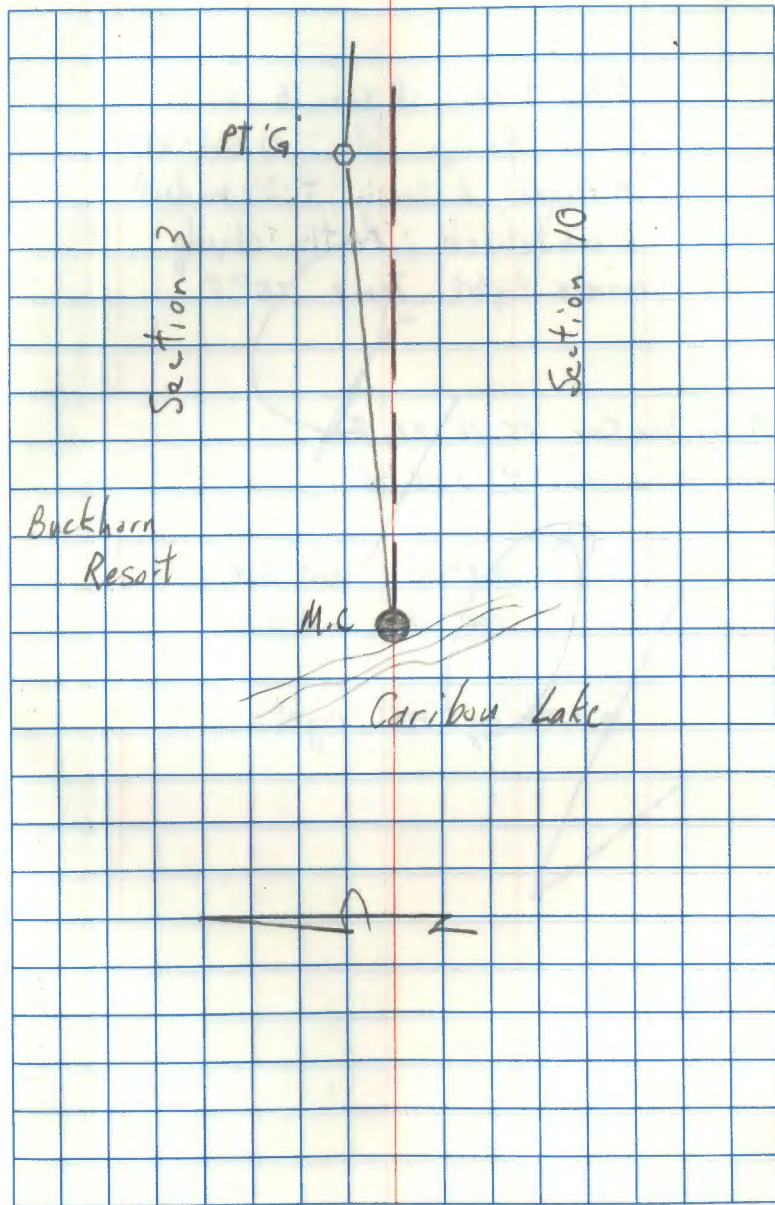
178-06-50

179-22-00

357-28-50

Mean & 179° 22' 12"

6



West line of sec 16 with
Laser Range Pole. 10-23-81
M. Hayes, R. Oleson, T. Sanderoff
& Whitehorn. : partly cloudy
winds light Temp 35° F

~~π @ Sec Cor 15, 16, 21, 22~~

~~Laser @ Sec Cor 9, 10, 15, 16~~

~~302° 20' east Gate~~

~~296° 20' west Gate~~

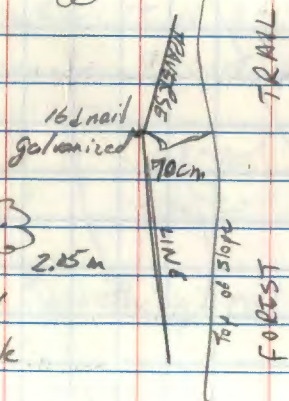
Something not right

Nov 17, 1981 Cloudy 40°F
R. Whitcomb R. Oleson

Ties to Traverse points for
Setting E 1/4 cor Sec 10

Blaze in S face

of 79cm 1.92m
Poplar



Blaze in
NW face of
5.7cm Poplar

Blaze in W
face of
9.42m
5.4cm Poplar
up 70cm

8

FSR

#2373

Blaze in S face of
4.9cm Maple
1.37m

Blaze in E face of
8.5cm
W Birch
1.82m

TRAVERSE LINE
16d's

16d galv nail
Top of Slope

1.39m

Blaze in NW
face 5.4cm Maple

Ties to Traverse PT

16d's

(9)

TU-17

MC# 36 Section 27, Twp 58N,
R26W, 4th Principal Meridian

See Page 18, This Book $\frac{1}{2}$ pp 26

1924 On Feb 4, 1983 - I received letter from
GLO BLM concerning Dec 17, 1982
recovered BT's. Lane Bouman
sent copies of Albert Smith Jr, 1924
field notes indicating they found:

W. Pine Stump 10 in 548°20'E 13 lks (8.53 ft)
marked BT (overgrowth cover other old marks)

W. Pine Stump 13 in 525°00'W 42 lks (27.72 ft)
Marked BT.

They added new BT's as follows:

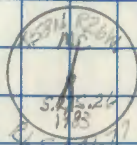
W. Pine 13 in 548°00'E 9 lks (5.94 ft)
marked "T58N R26W S26MC BT"

W. Pine 9 in 512°00'W 50 lks (33.00 ft)
marked "T58N R26W S27 MC BT"

corner
filled ✓

(9)

June 8, 1983 G. Kosenkov & G. Robertson

Set a 5 ft long by 5/8 inch diameter
aluminum rod with a 3 1/4" aluminum
cap stamp:  No other monument
or post point was found.
Monument is driven 12"
From which bears: below water surface.

(used 5° E declination)

1924 GLO W. Pine	21.5"	547°E	5.99	(dist's measured)
1924 GLO W. Pine	19.1"	508°W	33.09	(from 16 d spikes in sides of trees)
R. Pine stump	12.5"	547°E	8.53'	
Rotted pine stump		519°W	27.72'	

All BT's have 60 d spike in base of BT
The GLO Pine in the SW Quad has been
cut open and the scribing is visible. The
tree was single blazed. The GLO pine in the
SE Quad is single blazed. BT is cut open
and scribing is visible. The pine stump in
the SE Quad is a Red pine. It is double blazed.
It has been sawed off about halfway up on the
top blaze. Center of stump is rotted but
scribing on the BT blaze is visible. GLO pine
in SW scribing is over grown but cut open and
reads T58N R26W S27 MC B. GLO pine in SE
Quad is cut open ~~and~~ scribing visible but
not enough to clearly read.

N-21

Corner to Sections 13-14-23-24

T 58N R 26W

10

BK 4, PP 19
See BK 2, PP 19

T58N R26W Sec 6 SE 1/16

1920 P.L. Warner survey

set 1 in iron pipe monument

From which:

Cedar, 7" , N33°W, 13.7 ft

Cedar, 6" , S67°W, 29.0 ft

1966 Okerman recovery

recovered: 1 in iron pipe

Cedar, 14 in, N26°W, 13.7 ft, ser decayed

Cedar, 12 in, S74°W, 29.0 ft, ser visible

established:

2 in inside diameter, 5 ft long galvanized

steel pipe filled with concrete and

capped with a 3 in diameter bronze

tablet stamped:

T58N R26W

SE 1/16 S 6

1966

PLS No 6807

From which:

Cedar, 6 in, S66 1/2°W, 42.8 ft

Cedar, 8 in, N42°W, 33.65 ft

Cedar post, 4 x 4 x 72 ins w/54.4 south, 4.0 ft

1981 R. Olesen recovery
monument in place and good condition.
BT's OK 7/6/81 by Ronald Olesen

T.58N R26W Sec 6 E 1/4 6-7

1920 P.C. Warner survey

Set 1" iron pipe monument

From which:

Poplar, 6 in, N25°E, 37.7 ft

Poplar, 12 in, S22°W, 68.4 ft

1966 Okerman recovery

found 1" diam iron pipe

From which:

decayed stump N35°E, 37.7 ft

stub mostly decayed S32°W, 68.4 ft

established:

6 in diam., 5 ft. long cylindrical
concrete monument capped with a

3 in diam bronze tablet stamped:

T.58N R26W

E 1/4 56
57

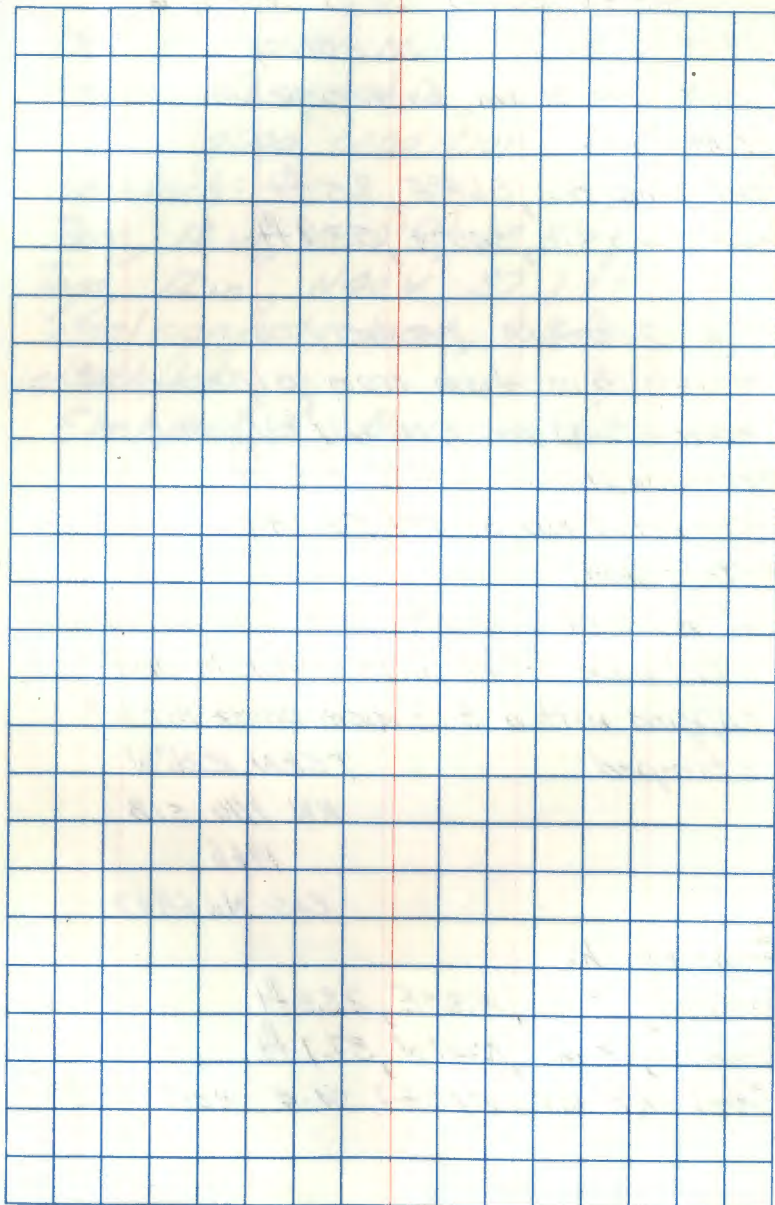
1966
RIS No. 6801

From which:

Elm, 7 in, N03½°W, 15.0 ft

Ash, 5 in, S34½°W, 37.9 ft

Cedar post, 4x4x72 ins w/54.4 south, 5.55 ft



T58N R26W Sec 18 NW 1/16

1925 L.W. Johnson survey

set 1/2 in diam Iron pipe monument

From which:

Cedar stump, 8 in, $S63^{\circ}E$, 9.5 ftCedar stump, 4 in, $S40^{\circ}W$, 53.9 ft

1966 Okerman recovery

found: 3/4 in diam iron pipe

Cedar stump, poorly decayed w/ some
scribing visible, $S54^{\circ}E$, 9.5 ftdecayed stump, $S28^{\circ}W$, 53.9 ft

established:

2 in inside diameter, 5 ft long galvanized
steel pipe filled with concrete and
capped with a 3 in diam bronze tablet

stamped:

T58N R26^W

NW 1/16 S18

1966

RLS No 6807

From which:

Tamarack, 9 in, $N30^{\circ}E$, 23.8 ftTamarack, 9 in, $N40^{\circ}W$, 37.1 ft

Steel sign post w/ 54-2, 54-4 West, 7.3 ft.

1981 R. Olesen recovery

found: Monument in place and in
good condition

From which:

Tam, 12 in, $N30^{\circ}E$, 23.8 ftTam, 12 in, $N40^{\circ}W$, 37.1 ft

Steel sign post West, 7.3 ft

established:

Steel post, 8', North, 6.8 ft w/ 54-2
54-9

T58N R26W NE Sec Cor sec 21

Original survey

1925 Itaska Co. road survey recovery

Government pine stub, 40 in, N52°E, 9.9 ft

Birch, 5 in, N71°W, 23.9 ft

Birch, 5 in, S30°E, 3.5 ft

poplar, 6 in, S69°E, 10.7 ft

corner marked by a 2 in diam iron pipe
w/ an aluminum cap stamped

T58N	
16	15
21	22

1966 Okerman recovery

found: monument as described above

pine stump, mostly decayed, N52°E, 9.9 ft

birch, 9 in, N61°W, 23.9 ft, sec visible

birch stump, S33°E, 3.5 ft

poplar, 6 in, S69°E, 10.7 ft

New county BT's:

Birch, 10 in, N39°E, 8.4 ft

Birch, 6 in, S41°E, 26.6 ft
Aspen stub 9", S21°W, 19.1 ft
established:

Steel post w/542, 54-9, north, 3.3 ft
Card is MADE

SEE PAGE 61 BOOK 1

SEE PAGE 73 BOOK 2

pp 10 BOOK 4

T58N R26W NW Sec cor 19

Original survey 1873

Set post from which:

spruce, 8 in, N25°W, 35 lbs

Cedar, 5 in, N63°E, 8 lbs

Cedar, 4 in, S67°E, 20 lbs

Cedar, 5 in, S54°W, 6 lbs

1925 L.W. Johnson recovery

Set iron monument

From which:

poplar, 6 in, S72°E, 43.9 ft

poplar, 5 in, N41°E, 47.3 ft

birch, 5 in, S38°W, 40.2 ft

1966 Oherman recovery

found: 1 in diam. iron pipe

poplar, decayed stump, S66°E, 43.9 ft

poplar, decayed stump, N45°E, 47.3 ft

birch, 8 in, S47°W, 40.2 ft, scr visible

established:

birch, 6 in, S47°E, 22.4 ft

birch, 9 in, N32°E, 16.8 ft

birch, 8 in, N28°W, 13.55 ft

Steel sign post, w/542, 544, ext 7.3 ft

6 in diam., 5 ft, cylindrical concrete monument capped with a 3 in diam.

bronze tablet stamped:

T58N
R27W R26W
S13 S18
S24 S17
1966
R.L.S. No. 6807

(16)

OP-17 South

Meander Corner No. 33 Common to
Sections 22 and 23

Mar. 18, 1873 El: W. Griffin, Deputy Surveyor, marked
a 3 in diam spruce for corner.

Tamarack 6 in N66°W 15 lks 9.90 ft

Tamarack 6 in S52°E 16 lks 10.56 ft

71-50

16

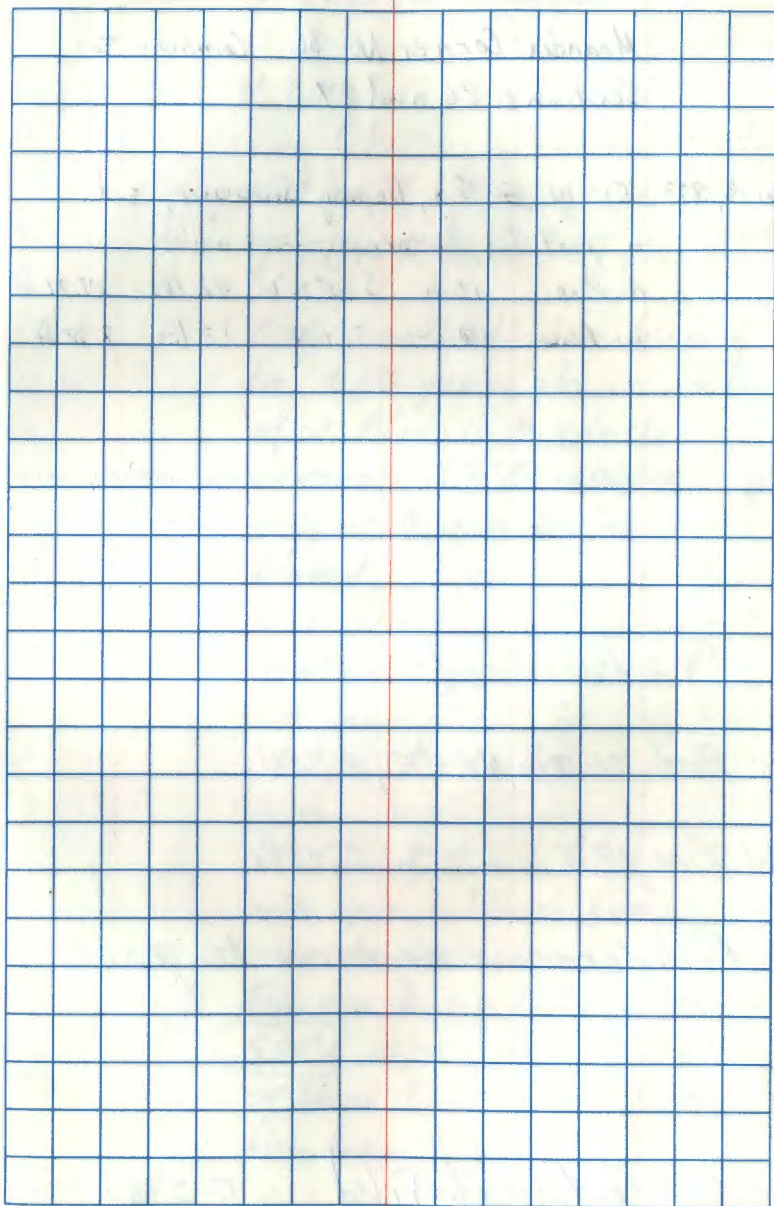
Meander Corner No. 38 Common to
Section 22 and 23

Mar 18, 1873 Eli W. Griffin, Deputy Surveyor, set a
post for the corner from which:

W. Birch 12 in N52°W 6 links 3.96ft

W. Pine 10 in N4°E 38 lks 25.08ft

See Book 3, pp 179



Meander Corner No 36 Common to
Sections 26 and 27

Mar 18, 1873 Eli W. Griffin, Deputy Surveyor, set
a post for the corner, from which

W. Pine	12 in	S 23° 30' W	42 lks	27.72 ft
W. Pine	10 in	S 60° E	13 lks	8.58 ft

Dec 14, 1982 US FS survey crew recovery
G. Kosenko, T. Suddendorf,
J. Hoover

Recovered:

W. Pine 21.7 in N 85° E, 8.58 ft

W. Pine 19.4 in S 06° W, 27.72 ft

Pulled record distance to and
set a 60d spike in ice for
M.C.

Certificate Filed 7-5-83
Doc # 358560 ~~Ketchum~~

CERTIFICATE FILED

12-30-82 K. Whitehorn, Jim Hoover &
Greg Robertson, cut out single
scribe & blaze (marked:

T 58 N R 26 W S 27 MC BT"

Ring count indicates blaze to
be ± 60 years old. Diameter
of W. Pine is 19.4 inches &
blaze is in 5 inches making
tree a 10 inch tree when
blazed. Blaze line up approx
5 ft S 55° W from traverse pt #
902 (see page 26, this Book)
Got snow under ice along hole
and found a leadstone - water
is very cold.

Also found 11 inch Red pine stump
with upper and lower blazes with
some remnant of scribe visible.

Tree was E 5 in diam when scribed
OK (S 80° E) 10.95 ft from #902 to face
of blaze (11.20 ft to center of stump)
blaze faces S 80° W

Goto Page 9 this Book
See page 26 This Book

Ken Whitehorn 12-²¹20-82 ^{windy}
 Greg Roberts Mostly Cloudy / Light ~~drizzle~~
 Jim Hoover 25° F / 29.35" Hg
 Wild TZ - SN 265184 -1 PPM
 Lietz Red 9A - SN - 4863
 Prism Constant 3 Lietz Prisms

T_B 2 ~~92°54'22"~~ 267°06'25" 4°01'53"
 T_G 2 74-02-11 265-58-25 120.32 ft 120.01 ft

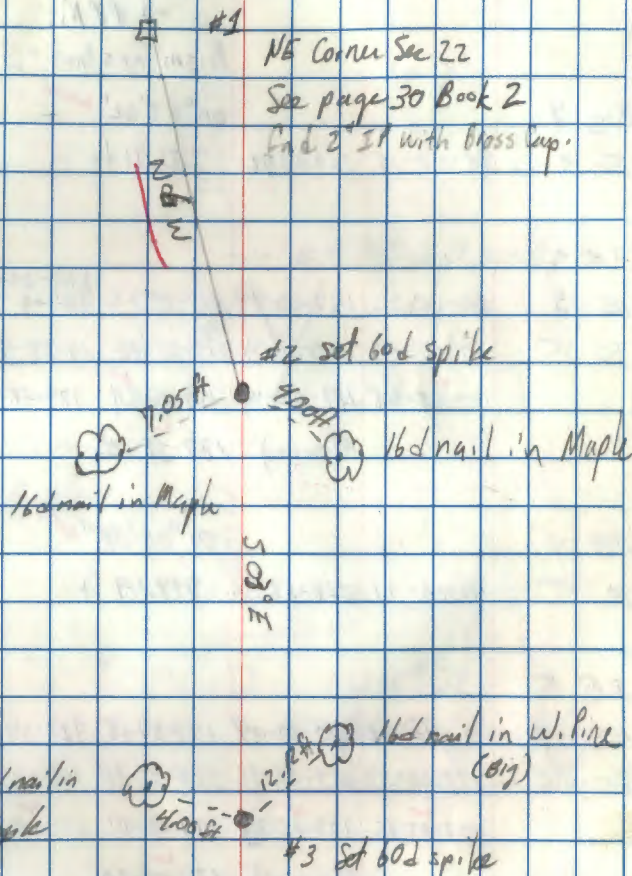
T_B 2 00'40" 180°00'28" 27°55'52" 207°54'47"⁵⁵
 BS 1 177°50'21" 357°50'16" 205°45'38" 25°45'36"
 FS 3 177°49'41" 177°49'48" 177°49'46" 177°49'49"

Mean * 177-49-46

T_B 2 77-29-14 260-31-24 9°28'55" ✓
 T_G 3 99-29-15 260°51'18" 381.02 ft 375.81 ft ✓

T_B 3
 BS 2 0-00-00 179-59-35⁴⁰ 30-06-10 210-06-04
 FS 4 179-56-44 359-56-30³⁰ 210-03-00 30-02-45
 179-56-44 179-57-35⁵⁶⁻⁵⁰ 179-56-50 179-56-41
 Mean * 179-56-46

311 12/13



K. Whitehorn

12-24-82

J. Hoover

25° F / 29.40 "Hg
-1 PPM

Prism Constant -3

AB 7

00° 57' 02" ✓

To 3 90-57-15 269.03-42 233.71 ft 233.68 ft ✓

AB 4

BS 3 00-00-22 ~~180-00-00~~ 30-00-32 210-00-15
~~209-05~~

FS 5 189-58-47 09-58-40 219-58-56 39-58-45

189-58-25 189-58-46 189-58-24 189-58-30

Mean $\frac{1}{4}$ 187-58-26

AB 4

01° 06' 38" ✓

To 5 91-06-51 268-53-36 798.49 ft 798.34 ft ✓

AB 5

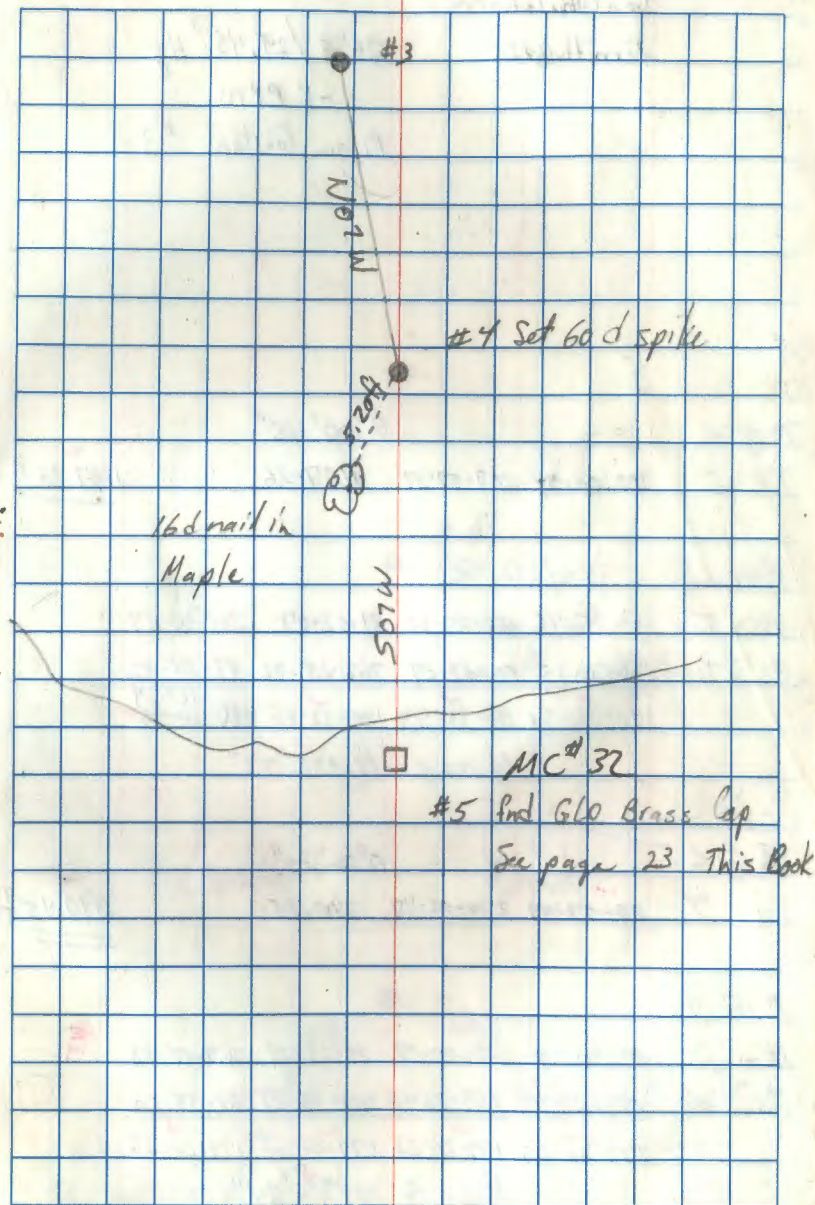
BS 4 0-00-23 180-00-09 147-57-18 327-57-04

FS 6 177-05-39 357-05-32 325-02-35 145-02-07

177-05-16 177-05-23 177-05-17 177-05-23

Mean $\frac{1}{4}$ 177-05-20~~AB 5~~~~To 5~~

211 118 183



211 118 183

20

Ken Whitehorn

Jim Hoover

25° F / 29.45" Hg

-1 ppm

Prism Constant #3

T@6 0°00'42"

To 5 90-00-54 269-59-32 1107.26 1107.26 ft

T@6

RS 5 8-00-45 180-00-33 81-52-07 261-⁵¹57

FS 7 180-33-35 00-33-27 262-25-02 82-24-52

180-32-50 180-32-54 180-32-55 180-24-³²⁻⁵⁴55

Mean \bar{x} 180°32'53"

T@6

0°02'30"

To 7 89-57-47 270-02-47 390.95 390.95 ft

T@7

RS 6 00-00-24 180-00-17 29-09-04 209-08-53

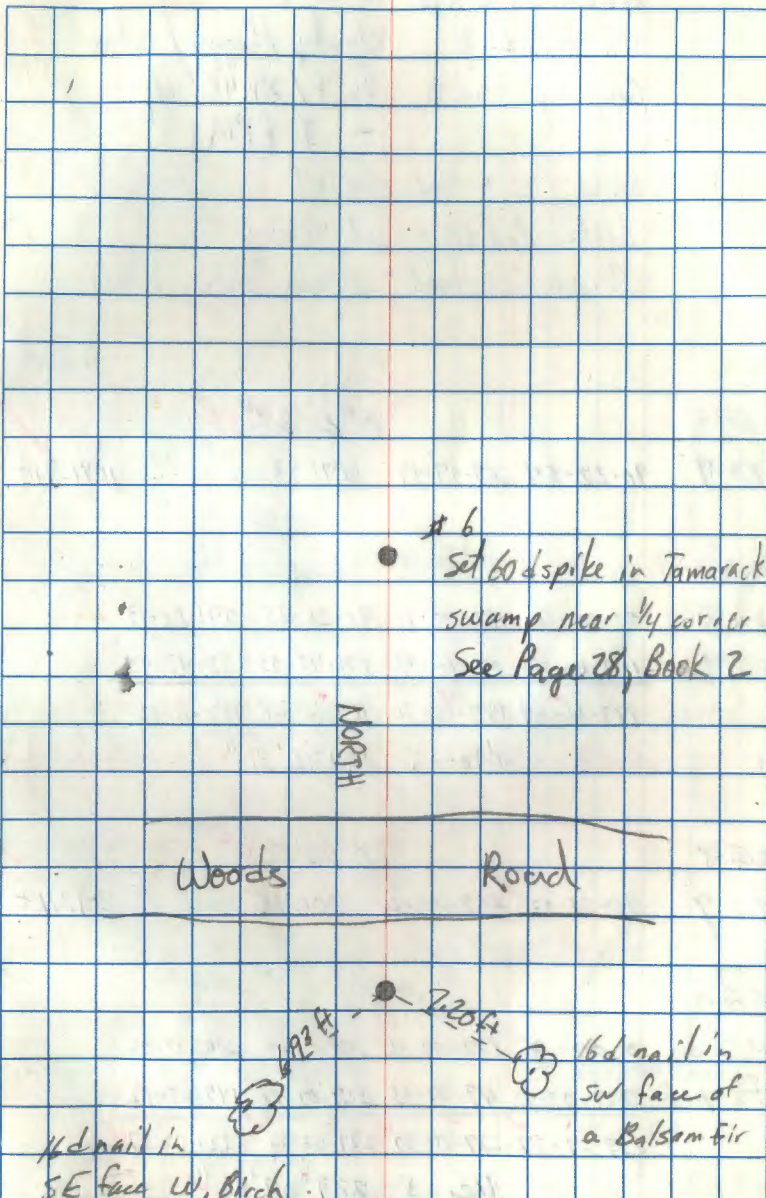
FS 8 179-26-49 359-26-40 208-35-27 28-35-20

179-26-25 179-26-23 179-26-23 179-26-27

Mean \bar{x} 179°26'24"

1185/83

21



#6
Set 6d spike in Tamarack
swamp near 1/4 corner
See Page 28, Book 2

NORTH

Woods

Road

6d nail in
SE face W, Birch

6d nail in
SW face of
a Balsam Fir

1185-1-22-83

(22)

Ken Whitcomb T 11 12-22-82

Jim Weaver ☐ Cloudy / foggy / calm

Greg Robertson ☐ 26°F / 29.45" Hg
- 1 PPM

Wild TZ - SN 265184

Lietz Red 9A - SN 4863

Prism Constant - 30 mm (Lietz prisms)

dist

T 8 0° 22' 32" 33" ✓

T 9 90-22-54 269-37-49 1091.93 1091.91 ft ✓

T 8

BS 7 00-00-16 180-00-10 91-26-25 291-26-13

FS 9 187-16-50 187-16-40 187-16-53 187-16-45

187-16-34 187-16-30 187-16-28 187-16-32

Mean 187° 16' 31" ✓

T 8 0° 52' 50" ✓

T 9 90-53-03 269-07-24 301.75 301.71 ft ✓

T 9

BS 8 0-00-06 179-59-56 100-00-14 280-00-05

FS 10 229-07-43 49-07-33 329-07-48 149-07-42

229-07-37 229-07-37 229-07-34 229-07-37 ✓

Mean 229° 07' 36" ✓

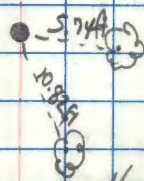
Vok bk. 1-25-83

(22)

~~# dist~~~~107.89~~ ✓

8

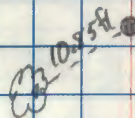
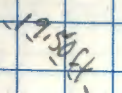
Set 60d spike

16d nail in south
face W. Birch16d nail in east face
of W. Birch

N 04° E

~~30.67~~ ✓

9 set 60d spike

16d nail in
NE face
W. Birch16d nail in
north face
W. Birch

IRMA LAKE

MC # 32 to Sections 22 & 23

12-21-82 Ken Whitehorn, RLS, and Jim Hoover, USFS, found GLO Monument (Brass cap under 0.3 ft of ice in shelly lake with 8" steel fence post on west side of monument.

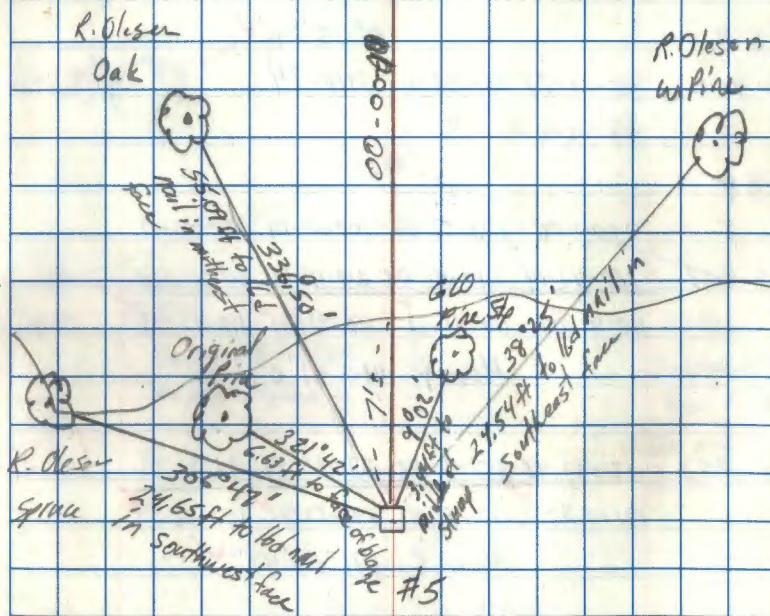
Find R. Oleson's W. Pine 19.2 inch $1139^{\circ}E$ double blazed & scribed "MC 523" and "BT" Put 60d spike vest in base blaze

Find R. Oleson B. Spruce 13.5 inch $150^{\circ}W$ double blazed & scribed "MC 522" and "BT" Put 60d spike vest in base blaze

Find R. Oleson Yock Oak W Oak 9.5 inch $N22^{\circ}W$ double blazed & scribed "MC 522" and "BT" part of 'B' chewed off by beavers. Put 60d spike vest in base blaze

Find original W. Pine, Now a dead snag we topped at 6' cut into, very rotten found small part of upper blaze & some reverse image. 23.4 inch $N41^{\circ}W$ (Pictures)

Find GLO R. Pine, Now rotted stump with blaze leaning over to scribed "T R ON R26 W..." rest under ice. $N12^{\circ}E$
(Pictures) #4



See page 29 of Book 2
See page 20 of This Book

(24)

WHITEHORN

+22 12-22-82

HOOVER

Cloudy / Hazy / light breeze

Robertson

26°F / 29.45" Hg

-1 PPM

0°03'06" ✓

227

90-03-23 289-57-12 1772.00

1772.00 ft

0°09'16" ✓

269

TO 901 90-09-31 249-51-00 1966.82

1966.80 ft

0°05'09" ✓

289

TO 902 90-05-27 269-55-10 3910.94

3910.94 ft

289

AS 8 0-00-06 179-57-56 100-00-14 280-00-05

FS 901 110-41-14 290-41-08 210-41-18 30-41-08

110-41-08 110-41-12 110-41-04 110-41-03

Mean & 110°41'07" ✓

FS 902 171-53-48 351-53-42 271-53-54 91-53-44

171-53-42 171-53-46 171-53-40 171-53-39

Mean & 171°53'42" ✓

2382 (12/103)

(24)

~~H 1/2 st.~~

1772/00 ✓

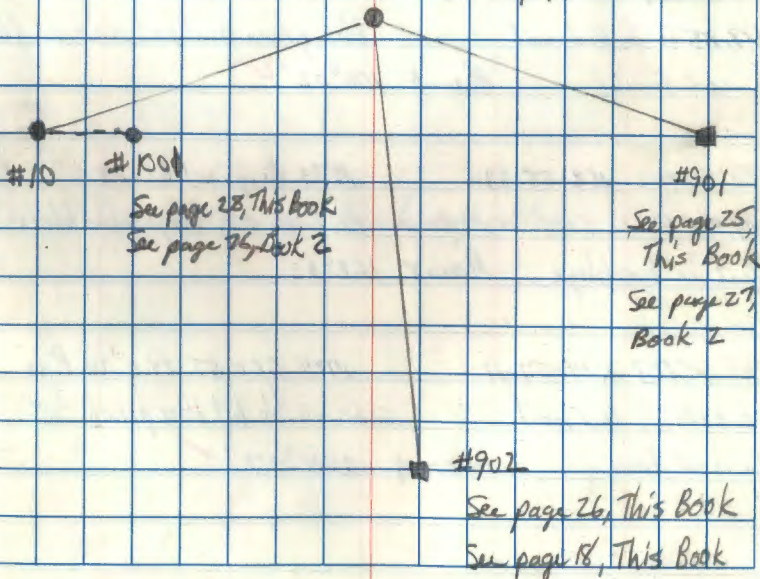
~~1772-0~~

1966.79 ✓

3910.94 ✓

#8 (see page 22)

#9 See page 22



colored ink

(25)

Ken Whitehorn M

12-22-92

Hoover T

Robertson P

A 901

65 9 0-00-26 180-00-32 ²⁹⁻⁵⁹⁻⁵⁰₃₀₋₀ 209-59-37

TO 10 331-00-26 151-00-18 00-59-37 180-59-37

~~331-00-00~~ 330-59-46 330-59-47 331-00-00

331-00-00

Mean \times 330°59'53" ✓

TO 90101 108-02-06 1924 GLO BT 25.4" W. Pine

49.85 ft to 1/2" nail blaze grown shut but scar visible

in west face Mean \times 108°02' ✓

TO 90102 162-55-33 1873 Original BT 28.5" W. Pine

41.76 ft to 60d cut into base blaze - find blaze

cut in base blaze Mean \times 162°55' ✓

TO 90103 224-57-11 1924 GLO BT 24.0" W. Pine

42.32 ft to 1/2" nail scar visible but blaze grown shut

in west face Mean \times 224°57' ✓

21R (12/10)

Lorne Land filed

(25)

MC# 35 See 23 & 26

but no scribe marks visible. Inside very rotten

12/11/92

(26)

Ken Whitehorn M

12-22-82

Jim Hoover T

Eug Robertson P

76912

8509 20-01-29 180-01-17 30-04-22 210-04-13

85010 333-11-24 153-14-11 03-17-21 183-17-08

333-12-55 ✓ 333-12-54 ✓ 333-12-57 ✓ 333-12-55 ✓

Mean \angle $333^{\circ}12'56''$ ✓

FS 90201 86-05-35

fnd 21.5 in Orig W. Pine

8.56 ft to face of blaze

Chopped into scar, fnd blaze

Mean \angle $86^{\circ}04'$ ✓and
scribe

FS 90202 184-54-36

fnd 19.1 inch W. Pine (Orig)

37.72 ft to face of blaze

chopped in scar fnd blaze

Mean \angle $184^{\circ}53'$ ✓

& scribe

~~76910~~~~8509~~~~85010~~

DJA 1/28/83

(26)

MC# 36 See Page 18, This Book

looks like a single blaze

looks like a single blaze

rejoice

(27)

Ken Whitehorn DJ T

12-22-82

Jim Hoover X ϕ

28° F / 29.40" Hg

Greg Robertson ϕ

-1 PPM

118 10	0-01-1			
125 9	0-01-12	180-01-03	25-39-48	205-39-34
	0-00-02	180-01-13		
FS 901	32-34-35		58-13-09	238-12-59
	32-34-44	212-34-22		
	32-33-23		32-33-21	32-33-25
	32-34-42	32-33-19		
MS 82-215		Mean ϕ	32° 33' 22" ✓	

FS 962	96-00-13			
	96-00-20	276-00-03	121-38-51	301-38-41
	95-59-01		95-59-03	95-59-07
	96-00-28	95-59-00		
546-41-57E		Mean ϕ	75° 57' 03" ✓	

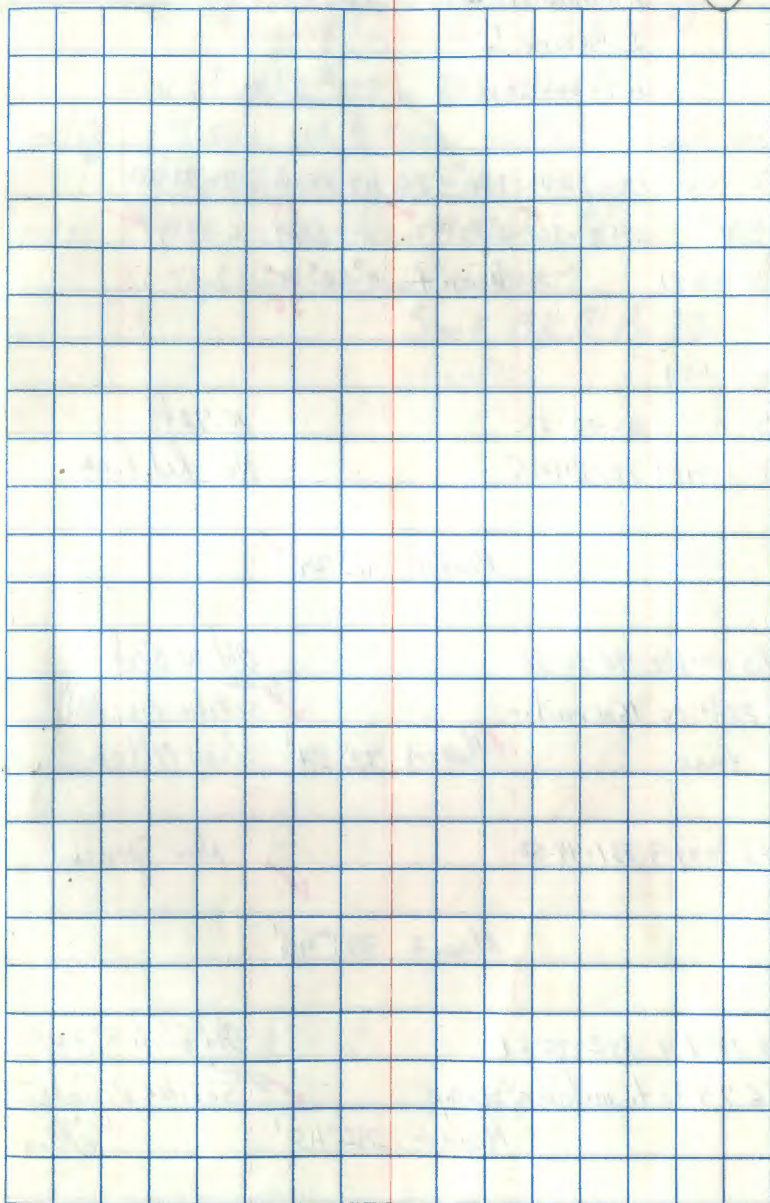
			0° 04' 55" ✓	
118 10	269-54-45		0° 04' 56" ✓	
To 901	90-04-35	3213.74		3213.74 ✓

118 10	269-55-32		0° 04' 41" ✓	
To 902	90-04-55	3306.58		3306.58 ✓

118 10				
BS 9	0-00-28	180-00-25	107-29-47	287-29-36
FS 11	212-56-58	32-56-50	320-26-12	140-26-00
	212-56-30	212-56-25	212-56-25	212-56-24
		Mean ϕ	212° 56' 26" ✓	

212R 1/25/53

(27)



(28)

K. Whitehorn

12-22-42

J. Hoover

G. Robertson

FS 1001 06-53-04 186-53-07 114-22-16 294-22-20

6-52-36 6-52-42 6-52-~~37~~³⁴ 6-52-44

N64-11-38 E 1

Mean \times $6^{\circ}52'40''$
38

FS 1001

BS 10 00-00-22

10.72 ft

FS 1001 12-24-25

New Red Pine

Mean \times $12^{\circ}24'$

FS 1001 92-36-56

8.23 ft to 16d nail in

E face

Mean \times $92^{\circ}37'$ Very rotten

Old W. Birch

^{some} scribe visible

FS 1001 331-44-50

New Spruce

Mean \times $331^{\circ}45'$

FS 1001 342-45-21

26.74 ft to middle of stump

Mean \times $342^{\circ}45'$

Old birch stump

^{some} scribe visible

Very rotten

CERTIFICATE FILED

(28)

New BTs to MC # 37 Sec 22 & 27

100101 7.5 in White Spruce 86.91 ft to 16d nail in W face
Single blaze scribed "MC527BT"100101 18.0 inch Red Pine 99.92 ft to 16d nail in SE face
Single blaze scribed "MC527BT"

See BK 2 Pg 76

Ken Whiteburn W 12-22-82

Jim Weaver T 30° E / 29.40" Hg

Greg Robertson φ -1 PPM

T@ 11 . 1° 36' 21" ✓
 T@ 10 21-36-36 262-23-53 279.41 277.30A ✓

T@ 4
 BS 10 0-00-30 180-00-24 34-09-16 277-51-26 214-09-00

FS 12 182-07-10 02-06-58 216-15-54 34-09-16 36-15-36

T@ 11 182-06-40 182-06-34 182-06-38 182-06-36
 Mean φ 182° 06' 37" ✓

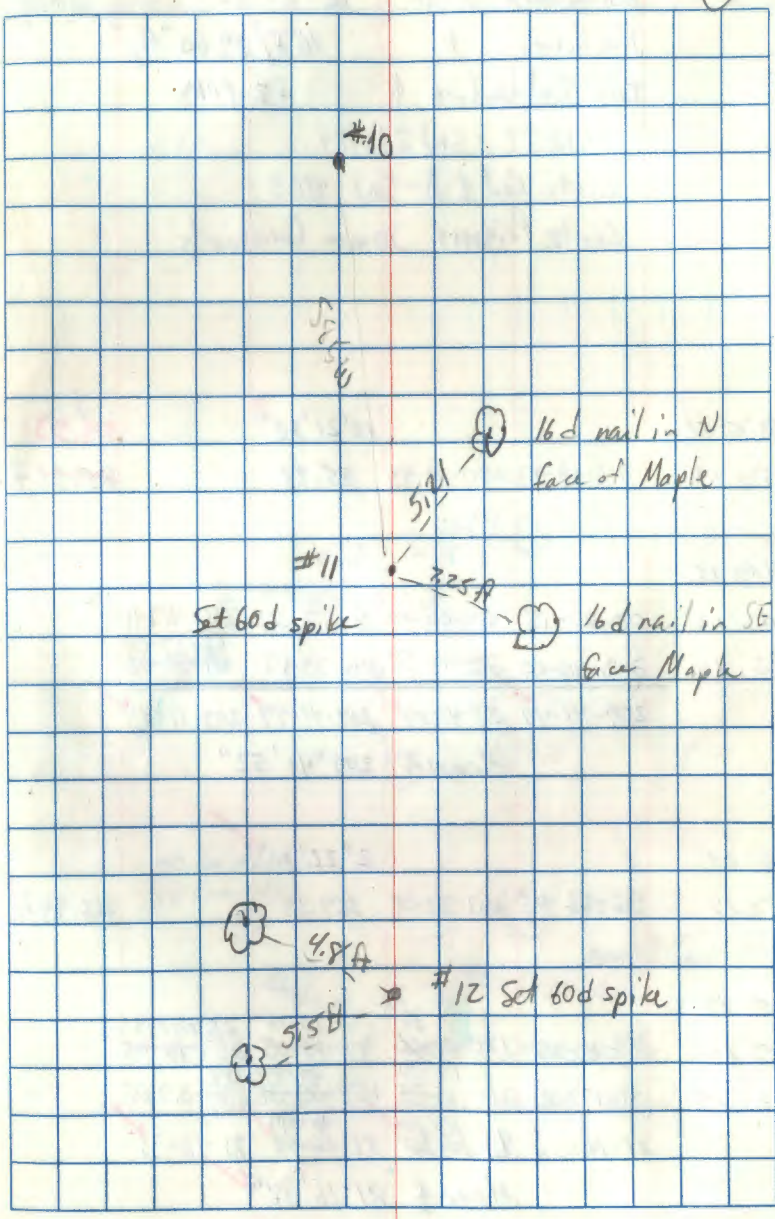
T@ 11 7° 51' 08" ✓
 T@ 12 82-09-10 182-01-55 277-51-26 226.96' 224.83A ✓

T@ 12
 BS 11 00-00-25 180-00-25 30-08-06 210-08-08

FS 13 173-18-45 353-18-39 203-26-18 23-26-20
 173-18-20 173-18-14 173-18-12 173-18-12

Mean φ 173° 18' 15" ✓

232 11/21/83



(30)

Ken Wiltborn π M 12-27-92 Cloudy WindyJim Hoover ϕ 16°F / 29.60" HgTom Suddendorf ϕ -2 PPM

Wild TZ - SN 265184

Lietz Red 1 A - SN 4863

Lietz Prisms 30mm Constants

 π @ 12 10°21'35" ✓ 84.53 ✓

TS 12 79-38-33 280-21-43 85.93 85.53 A

 π @ 13

OS 12 00-00-15 180-00-00 36-57-30 216-57-11

TS 14 209-40-00 209-41-57 246-39-17 ~~66-33-08~~
~~67-33-08~~

209-41-47 209-41-57 ✓ 209-41-47 ✓ 209-41-57 ✓

Mean ϕ 209°41'52" π @ 14

2°22'00" ✓

TS 14 92-22-05 267-38-05 367.25 366.944 ✓

 π @ 15OS 13 00-00-29 180-00-26 ³⁰ 10-16 257-12-35
17-10 77-13-05 257-12-45OS 15 81-17-05 261-15-55 ²⁷⁻⁰⁰ 158-23-38 ^{33X} 350-29-2881-16-36 ~~81-15-35~~ ¹⁶⁻⁴⁴ 81-16-33 ✓ 81-16-35 ✓Mean ϕ 81°16'38" ✓

(30)

#13
Set back spike

384

397

N
64
W20 da Nail in
SE face Ash20 da nail in SE
south face of
Ash

26.69 ft

35.71

#14 Set back spike in
woods Road

(31)

Kishitchoon 7V 12-27-82

Jatkovens ϕ 21°F / 29.65" HgT. Snodden ϕ -2 PPM1815 $0^{\circ}49'12''$

1814 90-49-25 269-11-01 177.34 177.32A

1815

1814 0-00-05 180-00-00 32-04-34 212-04-13

1815 251-29-40 71-27-26 283-34-04 103-33-57

251-29-35 251-29-26 251-29-30 251-29-27

Mean \pm $251^{\circ}29'30''$
331815 $6^{\circ}37'01''$

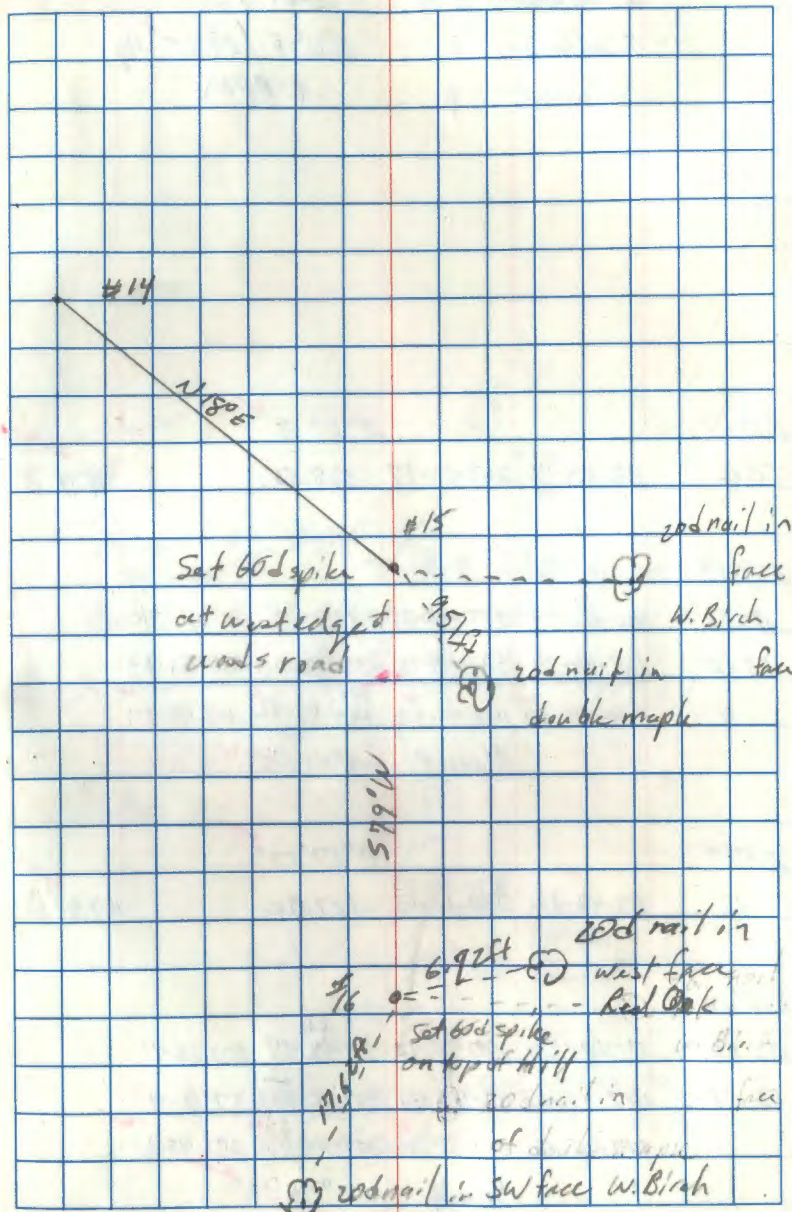
1816 83-23-13 276-37-15 453.05 450.03A

1816

1815 0-00-09 179-59-27⁴⁶ 03-02-20 243-02-101817 180-22-39 ~~00-00-00~~²²⁻¹⁹ 243-24-59 63-24-40180-22-30¹⁹⁰⁻²²⁻³³ 180-22-33 180-22-30Mean \pm $180^{\circ}22'32''$

THE 12/1/83

(32)



(32)

K. Whitcomb T M

12-27-82

T. Suddendorf ♂

22° F / 29.55" Hg

J. Hoover ♂

-2 PPM

T 8 17

2° 03' 58"

T 0 16

02-04-13

267-56-17

588.56

588.18 ft

T 8 17

BS 16

00-00-34

180-00-26

87-12-28

267-12-16

FS 18

148-44-34

328-44-18

235-56-20

55-56-13

148-44-00

148-43-52

148-43-52

148-43-57

Mean \bar{x}

148° 43' 55"

T 8 17

0° 17' 57"

T 0 18

83-42-16

270-18-09
270-18-13

187.92

187.92 ft

T 8 18

BS 17

0-00-20

180-00-12

29-²⁶48-47

207-26-41

PS 19

207-45-53

27-45-40

237-12-²²35

57-12-11

207-45-33

207-45-24

207-45-³⁵48

207-45-30

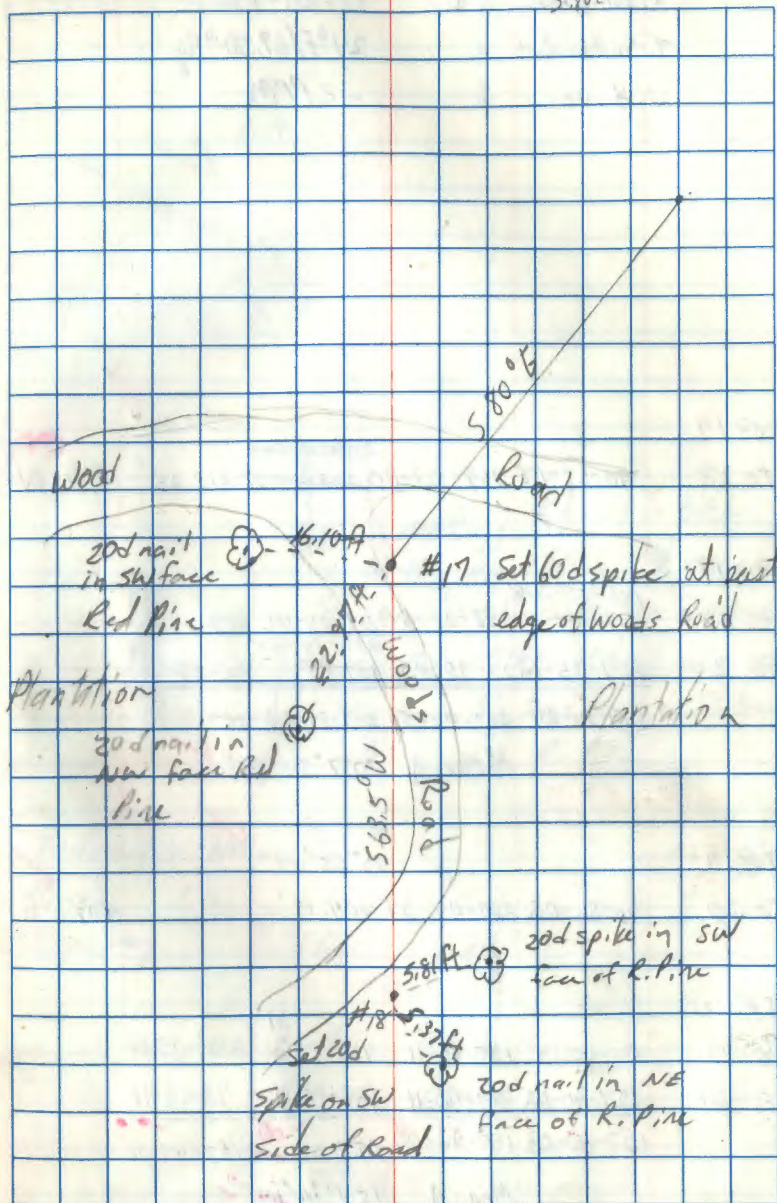
Mean \bar{x}

207° 45' 32"

MAR 128183

(32)

S. 80 E



(33)

K. Whitehorn T & V

12-27-82

T. Suddendorf ϕ

24°F/29.50" Hg

J. Hoover ϕ

-2 PPM

T & V 19

0°57'09" ✓

TO 18

90-57-18 269-02-00 ~~202-04-57~~ 317.25' 317.21' ✓

T & V 19

BS 18

00-00-48
~~00-48~~

180-00-40

23-05-05

203-04-27

53

FS 20

207-35-12

27-35-05

~~237-24~~
230-39-28

50-59

18

207-34-24

207-34-25

207-34-23

207-34-32

25

Mean ϕ 207°34'24" ✓

T & V 19

0°55'49" ✓

TO 20

90-56-02 269-04-23 404.17' 404.12' ✓

T & V 20

BS 19

00-00-19

180-00-11

100-39-21

280-39-14

31

FS 21

157-40-22

337-40-11

258-19-31

78-19-16

157-40-03

157-40-00

157-40-~~20~~

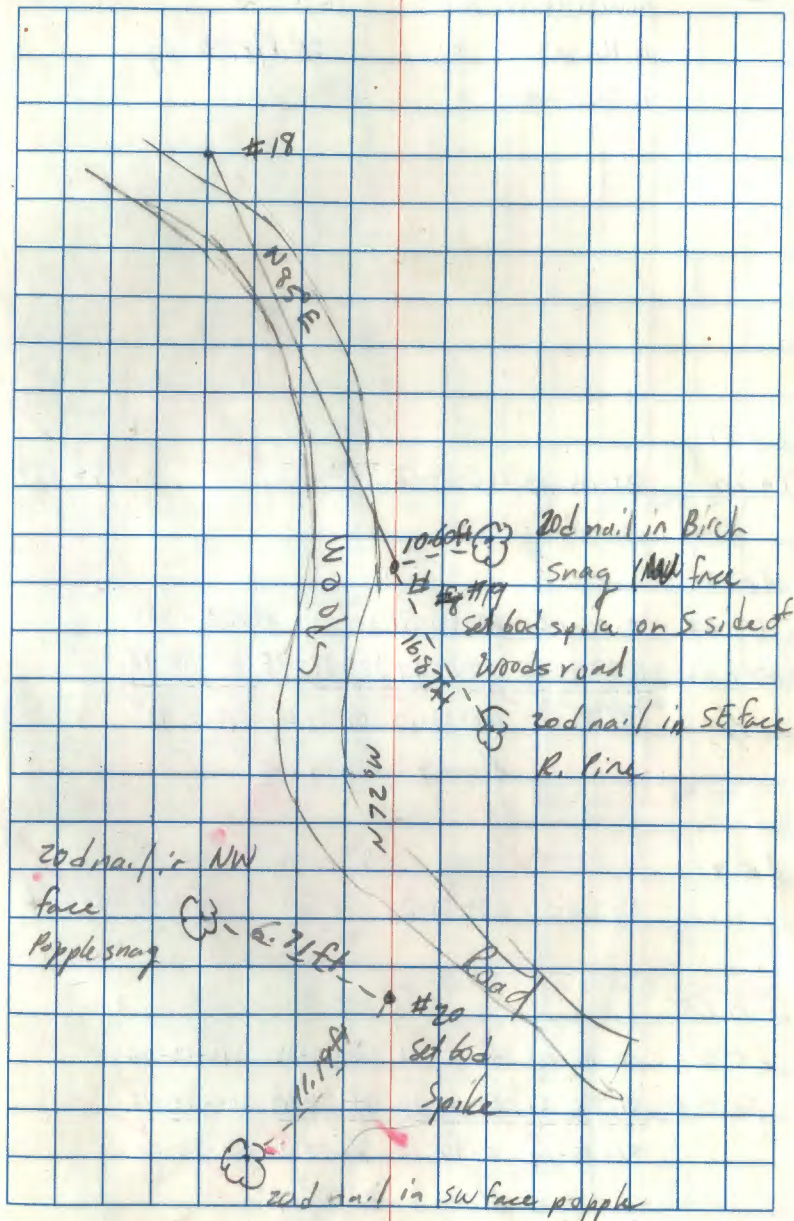
157-40-02

Mean ϕ 157°40'24" ✓

LJR 1/28/83

01

(33)



(34)

K. Whitcomb RM

12-27-22

J. Hoover ϕ

26° F / 29.50" Hg

T. Suddendorf ϕ

18 21 $1^{\circ}05'13''$ ✓
 To 20 91-05-23 268-54-58 779.29 ✓ 779.15 ✓

18 21
 20 0-00-06 179-59-57 20-04-08 200-04-01
 22 188-34-22 08-34-14 208-38-28 28-38-14
 188-34-16 188-34-17 188-34-20 188-34-13 ✓

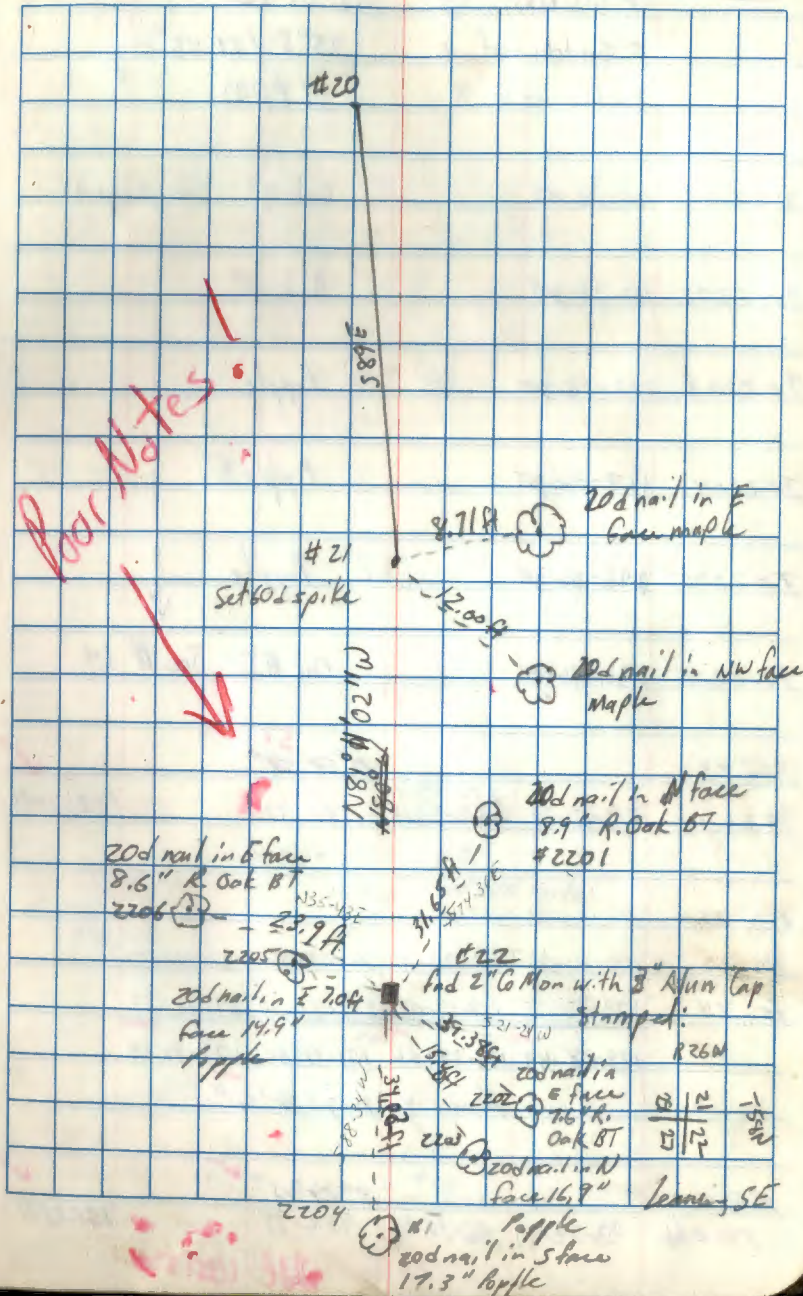
Mean \pm $188^{\circ}34'16''$ ✓

18 21 $4^{\circ}21'14''$ ✓
 To 22 85-38-56 274-21-23 78.23 ✓ 78.00 ft ✓

18 22
 23 21 00-00-02 190-00-02 12-45-35 192-45-22
 FS 23 81-38-21 261-38-18 94-23-57 274-23-42
 81-38-19 81-38-16 81-38-22 81-38-20 ✓
 Mean \pm $81^{\circ}38'19''$ ✓

23R 125153

(34)



(35)

K. Whitehorn M

12-27-82

T. Suddendorf ♀

25°F / 29.45" Hg

J. Hoover ♂

-1 PPM

To 2201 106-26-00

Oak BT See page 34

To 2202 102-26-00

Oak BT

To 2203 103-58-00

Not a BT

Popple

To 2204 169-36-00

Popple BT

To 2205 296-56-00

Not a BT

Popple

To 2206 296-45-00

Oak BT See p 34

AB 23

0°08'⁵⁷58"

To 22 89-51-21

270-09-16
~~260-53-10~~

182.32

182.32ft ✓

AB 23

BS 22 00-00-16 180-00-10 30-03-46 210-03-44

BS 24 179-38-05 359-39-02 209-42-40 29-42-33

179-38-49 179-38-52 179-38-54 179-38-49

Mean \bar{x} 179°38'51" ✓

AB 23

3°29'45" ✓

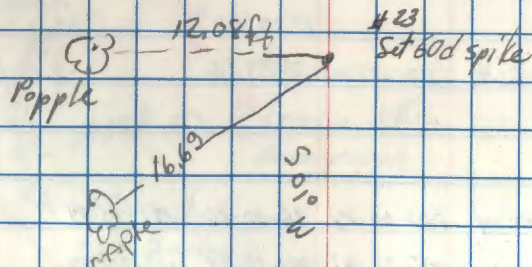
To 24 93-29-47 266-30-20

952.98

951.21ft ✓

JJE 1/25/83

(35)



(36)

Whitchorn

12-27-82

Hoover

25° F / 29.45" Hg

Sudden dusk

-1 P.M.

TB 24

BS 23 00-00-11 180-00-04 14-00-26 194-00-13

FS 25 333-01-39 153-01-30 347-01-53 167-01-42

333-01-28 333-01-26 333-01-27 333-01-29

Mean \pm 333° 01' 28" ✓

TB 25

90° 13' 23" ✓

To 24 89-46-43 270-13-14 115.79 115.79ft ✓

TB 25

BS 24 0-00-30 180-00-22-13-23-43 193-23-31

FS 26 112-57-47 292-57-41 126-21-00 306-20-52

112-57-17 112-57-19 112-57-17 112-57-21

Mean \pm 112° 57' 18" ✓
19

TB 25

10° 27' 26" ✓

To 26 89-32-49 271-27-40 2051.56 2056.89ft ✓

TB 26

BS 25 0-00-14 180-00-04 16-00-06 196-00-04

FS 27 265-32-40 85-32-31 281-32-34 101-32-27

265-32-26 265-32-23 245-32-28 265-32-23

Mean \pm 265° 32' 25" ✓

HAR 1/25/83

(37)

20d nail in S face

#24 Set 60d spike

Balsam



21.84ft

6.3ft

20d nail
in E face

7' fence post

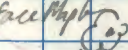
20d nail in SE face

Balsam Popple

526E

#25 Set 60d spike
in possible BT for
MC# 30, Daylake20d nail in N
face popple

N 87° E



22.74ft

21.84ft

26.67ft

20d nail in NE
face popple

#26 Set 60d spike

in E shoulder
of road

MC# 30

(37)

Ken Whitehorn

12-29-82

Jim Hoover

Mostly Cloudy / light breeze

Greg Robertson

0°F / 29.55" Hg

-3 PPM

Wild TZ - SN 265184

Lietz Rad 3A - SN 4863

Lietz Prism 30mm Constant

TS 27			89-41-20	
FO 26	89-41-35	270-18-55	766.25	766.23

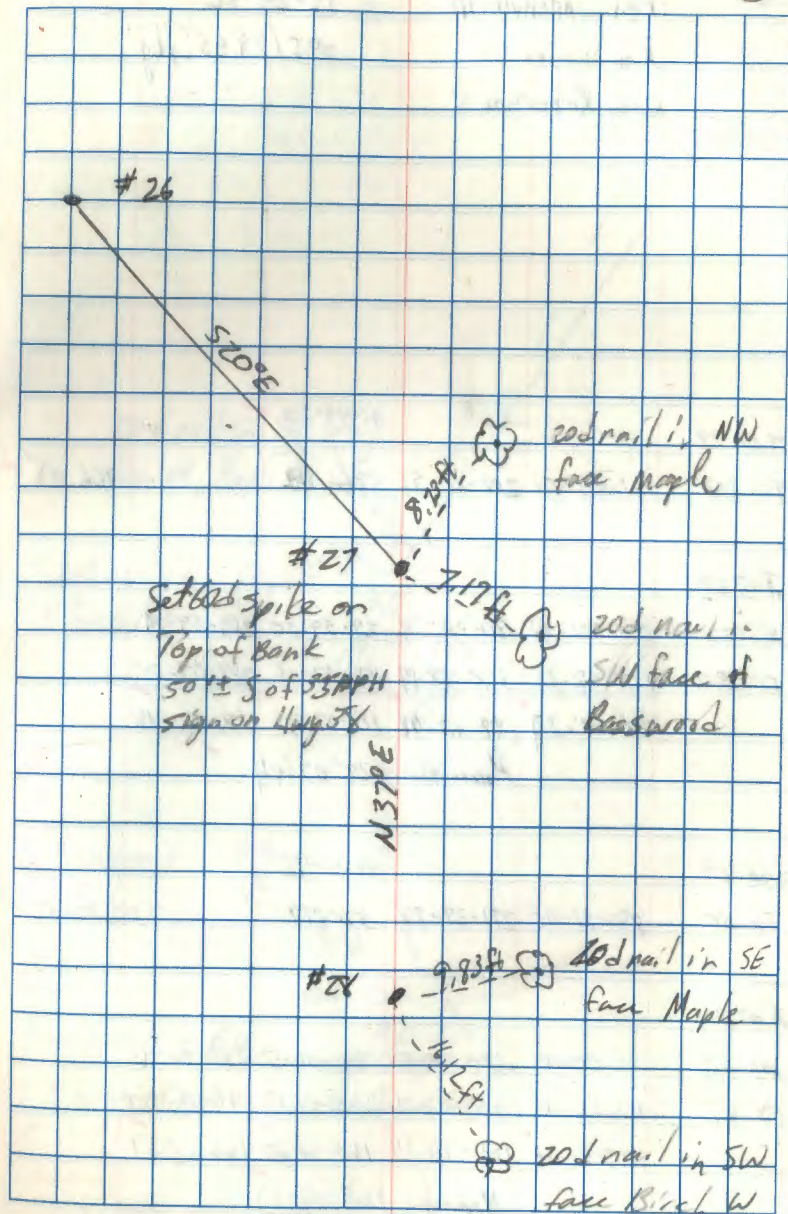
TS 27				
BS 26	0-00-21	190-00-10	25-00-78	205-00-16
ES 27	198-27-23	18-27-11	223-27-23	43-27-14
	198-27-02	198-27-01	98-26-55	198-26-58
	Mean 4		198°26'59"	

TS 27			89-18-45	
TO 28	89-19-01	270-41-30	588.89	688.83
				4

TS 28				
BS 27	00-00-27	180-00-18	17-05-45	197-05-37
BS 27	224-11-24	44-11-18	241-16-47	61-16-33
	224-10-58	224-10-57	224-11-02	224-10-58
	Mean 4		224-10-60	

RR 128/83

(38)



(39)

Ken Whitehorn M

12-29-82

Jim Hoover T

30° E / 29.55" N_g

Greg Robertson Φ

T B 29

91-49-30

T O 28

91-49-51 288-10-51

766.42

766.03'

T B 29

H S 28

00-00-19 180-00-29 29-59-30 209-59-19

F S 30

128-08-22 308-08-19 158-07-10 378-07-05

128-07-39 128-07-48 128-07-40 128-07-48

Mean 4 128° 07' 44"

T B 29

88-30-46

T O 30

88-31-00 271-29-28

520.49

520.29'

T B 30

H S 29

00-00-10 180-00-08 63-00-50 243-00-43

F S 31

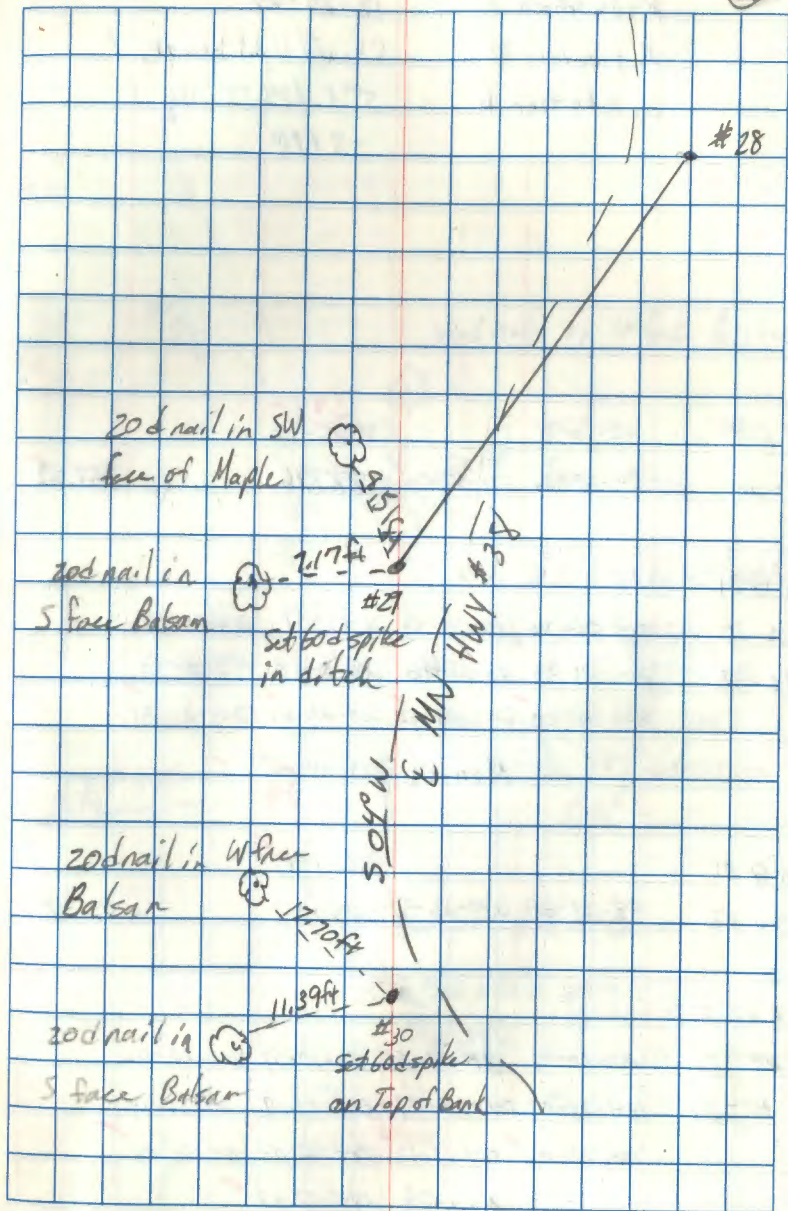
165-12-26 345-12-16 228-13-10 48-13-00

165-12-16 165-12-14 165-12-20 165-12-17

Mean 4 165-12-17

JR 1/26/83

(39)



(40)

K. Whitcomb T

12-29-82

J. Haarer W

Clear/light breeze

G. Robertson D

5°F / 29.55" Hg

-3 PPM

T @ 31

59 -
85-58-49

T @ 30

89-36-42

271-37-05

887.16

887.02

T @ 31

BS 30

00-01-00

180-00-53

26-15-51

206-15-42

FS 32

203-21-33

23-21-16

203-20-18

49-36-13

203-20-33

203-20-33

203-20-27

203-20-31

Mean 4 203-20-28
29

T @ 31

88-57-49

T @ 32

88-23-28

270-23-50

350.83

350.78

T @ 32

BS 31

00-00-04

179-
~~189~~ 59-55

30-10-09

210-10-06

FS 33

184-23-07

04-23-07

214-33-13

34-33-14

184-23-03

184-23-12

184-23-08

184-23-08

Mean 4 184-23-08

230 1/2 1/83

(40)

#30

N 11° W

2nd nail in W face Birch

2nd nail in NW
face Maple

#31 set 60d spike in shoulder

FSR #3548

2nd nail in SW
face 4x4 cedar sign
post

FSR #436

2nd nail in W face Oakam

#32 set 60d spike on top of bank
by broken stub14-05-79
2nd nail in SW face
Maple

(41)

K. Whitehorn

12-29-82

J. Hoover

7°F / 29.50" Hg

G. Robertson

Sunny / breezy

$\pi @ 33$ 88-34-32 ✓
 To 32 88-34-40 271-25-37 476.05 475.90°

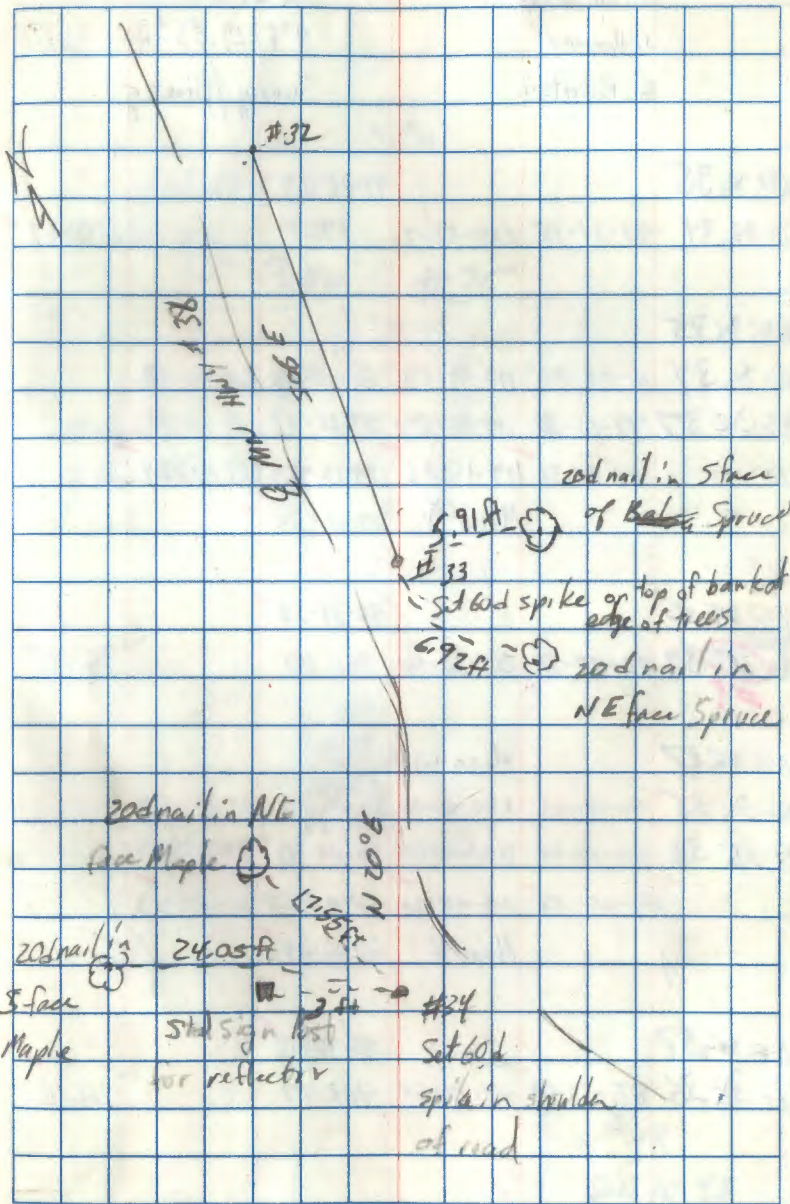
$\pi @ 33$
 BS 32 00-00-35 180-00-22 90-00-59 270-00-53
 FS 34 192-36-18 12-36-11 282-36-39 102-36-36
 192-35-43 192-35-49 192-35-40 192-35-41
 Mean \times 192-35-43

$\pi @ 33$ 92-37-16
 To 34 92-37-32 267-23-00 643.62 642.95

$\pi @ 34$
 BS 33 0-00-00 179-57-50 30-04-25 210-04-21
 FS 32 162-53-40 342-53-34 192-58-06 12-58-06
 162-53-40 162-53-44 162-53-41 162-53-45
 Mean \times 162-53-43

HR 1/28/83

(42)



(42)

K. Whitaborn

12-29-82

J. Hoover

9°F / 29.55" Hg -2 PPM

G. Robertson

Sunny / Breezy

TB #35

91-28-27

TS #34

91-34-15 268-37-7 370.19 370-07

TB #35

BS #34 0-00-05 179-57-53 20-10-28 210-10-22

FS #37 189-16-36 19-16-25 219-26-53 39-26-51

TS 189-16-31 189-16-35 189-16-25 189-16-29

Mean \bar{x} 189-16-30

TB #35

90-37-38

TS ~~35~~ 37 90-37-56 269-22-40 762.00 761.95

TB #37

BS #35 00-00-13 180-00-07 20-00-16 200-00-09

FS #36 60-05-41 240-05-37 80-05-43 260-05-34

60-05-28 60-05-30 60-05-27 60-05-30

Mean \bar{x} 60-05-29

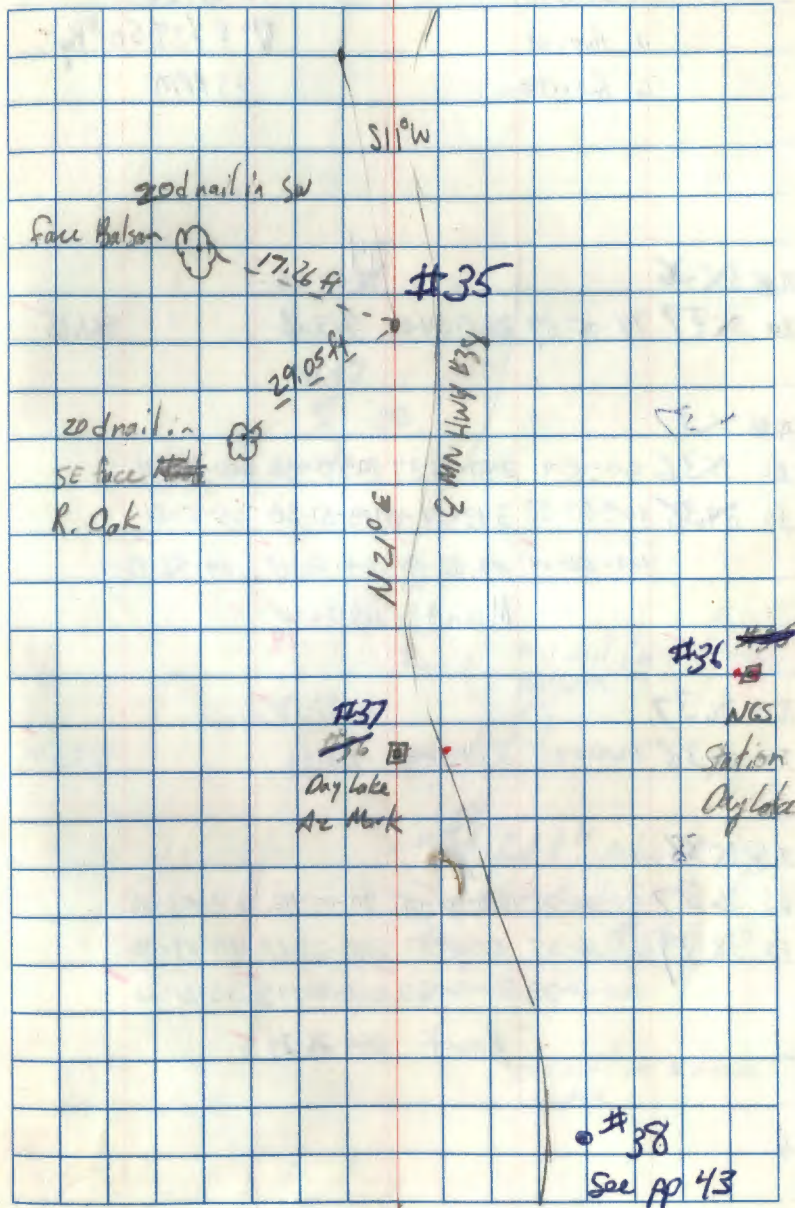
TB #37

85-56-45

TS #36 85-57-03 274-03-34 963.57 961.16

2/12/13

(42)



(43)

K. Whitehorn

12-29-82

J. Hoover

7° F / 29.50" Hg

G. Robertson

-3 PPM

TB ~~36~~

94

75-04-46

TO ~~37~~ 94-05-59 265-54-27 963.64 961.15TB ~~37~~BS ~~36~~ 60-05-41 240-05-37 80-05-43 260-05-34FS ~~38~~ 109-57-55 349-57-45 89-57-58 09-57-51

109-52-14 109-52-08 109-52-15 109-52-17

Mean \bar{x} 109-52-14TB ~~37~~

86-27-50

TO ~~38~~ 86-28-03 273-30-24 729.93 727.54TB ~~38~~BS ~~37~~ 00-00-20 180-00-15 90-00-42 270-00-36FS ~~39~~ 260-26-55 80-26-37 350-27-15 170-27-02

260-26-35 260-26-22 260-26-33 260-26-26

Mean \bar{x} 260-26-29

DAR 1/25/83

(43)

#37

See page 42

N
101520 d nail in NW face
BalsamEnd of 4" rebar at edge
of Pullout See Sta K
PR 15, Book 420 d nail in NE face
maple

N

(44)

16°F / 29.62" Hg

Sta	1 st H&D	2 nd H&R	3 rd H&D	4 th H&R	Z & OR
		H4			Z4

70 38	269-09-14	90-51-23	729.68		
	178-22-34	358-22-22	178-22-29	358-22-25	
	00-00-31	180-00-10	00-00-20	190-00-16	

~~3938~~ 178-22-03 178-22-12 178-22-13 178-22-09

179-35-05	359-35-00	179-35-07	359-35-01	90-22-47
00-00-33	180-00-34	00-00-42	180-00-38	269-47-38

~~4039~~ 179-34-32 179-34-26 179-34-25 179-34-23 90-17-34

179-34-27

179-43-45	359-43-41	179-43-44	359-43-37	84-29-04
00-00-34	180-00-29	80-00-36	180-00-30	275-31-25

~~4140~~ 179-43-11 179-43-12 179-43-08 179-43-07 87-28-49

179-43-10

21172
21173

(44)

Jan 31, 1983

clear, calm

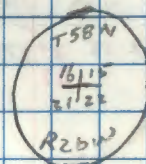
S. Dist

H. Dist.

Bill Aysk T & M

Greg R

729.60



12" Basswood 3" Apple

361.29

361.29

361.29

361.29

361.29

5" Basswood

5" Apple

388.58

388.58

388.58

388.58

386.78

21174
21175

(43)

Sta	1 st H&R	2 nd H&R	3 rd H&R	4 th H&R	Z ⁴ OR
		H4			Z4
	179-56-10	359-56-07	179-56-14	359-56-07	272-28-46
	00-00-33	180-00-32	00-00-40	180-00-36	87-31-52
42 41	179-55- 27 37	179-55-35	179-55-34	179-55-31	87-31-33
		179-55- 27 34			127
	181-05-33	01-05-25	181-05- 32 ³⁶	01-05-27	274-56-03
	00-00-30	180-00-12	00-00- 37 ³⁵	180-00-15	85-04-23
43 42	181-05-03	181-05-13	181-05-08	181-05-12	85-04-10
		181-05-07			29
	179-24-40	359-24-34	179-24-44	359-24-50	268-18-05
	00-00-32	180-00-22	00-00-31	180-00-19	91-42-25
44 43	179-24-08	179-24-12	179-24-13	179-24-11	91-42-10
		179-24-11			44

21/12
DJR

(45)

S. Dist	H. Dist	
353.25		1" MAPLE
353.24		1" Basswood
353.24		
353.24	352.27	
	91	
211.22		
211.22		
211.22		
211.22	210.44	
353.03		498N 15 22 R26W
353.02		
353.02		
353.02	352.86	
		2" ASPEN 2" ASPEN

(46)

Sta	1 st H 40	2 nd H 4 R	3 rd H 4 D	4 th H 4 R	Z 4 Pk
		H 4			Z 4

44.53
179-45-08 359-44-53 179-45-07 359-44-54 271-14-18

00-00-30 180-00-09 00-00-44 180-00-11 88-46-32

~~45 44 45~~ 179-44-38 179-44-44 179-44-43 179-44-43 88-46-07
179-44-42 11.8

268-14-18

96-46-23

96-46-03

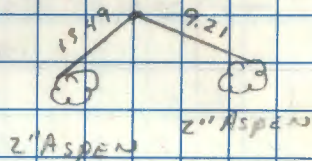
46 45

Set up on 45 B.3 44 Computed
& to SEC. COR. IS

2-2-87
OK

(46)

S. Dist	H. Dist
673.03	
673.03	
673.04	
673.03	672.87
288.78	
288.78	
288.78	
288.78	286.77



288.78

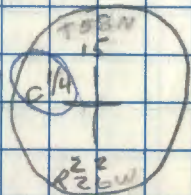
288.78

288.78

288.78

286.77

3-16-83
KUP



(47)

Hg 29.7" 27°F 2-24-83

STA.	1 st H&D	2 nd H&R	3 rd H&D	4 th H&R	2 nd DIR
	178-46-47	358-46-33	178-46-43	358-46-36	279-22-27
	00-00-29	180-00-21	00-00-30	180-00-21	80-38-10
46 +5	178-46-18	178-46-12	178-46-18	178-46-15	80-37-51
	178-46-16				
	180-03-31	00-03-24	180-03-34	00-03-23	265-25-18
	00-00-24	180-00-27	00-00-28	180-00-24	94-35-09
47 +6	180-03-07	180-02-52	180-03-06	180-02-59	94-34-55
	180-03-02				
				272-39-46	
				87-20-55	
	179-57-34	359-57-23	179-57-32	359-57-26	267-08-53
	00-00-29	180-00-18	00-00-27	180-00-17	92-51-57
48 +7	179-57-05	179-57-05	179-57-05	179-57-04	87-20-34
	179-57-06				

✓ OK Pr. 02-28-83

CERTIFICATE FILED (47)

S. Dist

H. Dist.

G. KOSENKO

G. ROBERTSON

B. AUSK ~~AT~~

68.03

68.04

68.04

68.04 ✓

211.77

211.77

211.77

211.77 ✓

376.41

376.41

376.41

376.41

SEE PAGE 17 BOOK 4
SEE PAGE 48 BOOK 2

67.13 ✓

211.09 ✓

376.01 ✓

14	15
22	

4" Birch

E

365'

E 1.87

3" Birch

4" MAPLE S 1/4

E

374

4.45

8" OAK

48

TSON R26W Sec 22 Subdivision

Exterior traverse of sec 22 cont'd from pg 47

STA 1st H&D 2nd H&R 3rd H&D 4th H&R 2nd R

H&R

2nd R~~49~~
~~45~~

180-00-56 00-00-42 180-00-52 00-00-40 267-37-00

00-00-26 180-00-18 00-00-26 180-00-19 92-23-45

~~49~~
~~46~~

180-00-31 180-00-24 180-00-26 180-00-21 92-23-22

180-00-25

179-54-59 359-54-44 179-54-55 359-54-46 277-08-43

00-00-33 180-00-27 00-00-32 180-00-25 82-52-19

50 179-54-26 179-54-17 179-54-23 179-54-21 82-51-45

179-54-22

180-06-12 00-06-05 180-06-14 00-06-09 270-00-09

00-00-23 180-00-17 00-00-23 180-00-14 90-00-39

51 180-05-49 180-05-48 180-05-51 180-05-55 90-00-15

180-05-51

VOK Gr. 0228-83

48

E.P.
S. DistE.P.
H. Dist

311.72

311.72

311.72

311.72

197.75

197.75

197.75

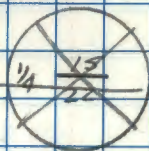
197.75

460.21

460.20

460.21

460.21

11.20'
12" BalsamBirch
Stump
3830

311.45 STA 46

197.75 196.22

4" Balsam

1031

6" Balsam
6" Balsam

4.50

4.43
4" Balsam

49

TSON R26W Sec 22 Subdivision

Exterior traverse cont'd from pg 48

STA	1 st H&D	2 nd H&R	3 rd H&D	4 th H&R	Z ^z 0/2
		Hx			Z4

180-01-08 00-00-53 180-01-09 00-00-54 277-05-45

00-00-29 180-00-18 00-00-24 180-00-22 82-55-01

52 180-00-39 180-00-35 180-00-45 180-00-32 82-54-38

180-00-38

180-01-00 00-00-48 180-00-53 00-00-36 272-07-10

00-00-33 180-00-19 00-00-34 180-00-17 87-53-34

53 180-00-27 180-00-29 180-00-19 180-00-19 87-54-35

180-00-24

5-12

211-37-43 31-37-38 211-37-41 31-37-34 260-33-79

00-00-38 180-00-26 00-00-31 180-00-23 99-26-49

54 211-37-05 211-37-12 211-37-10 211-37-11 99-26-30

211-37-10 ✓

~~55~~

VOK 1/2 02-23-83

97

S. Dist	H. Dist	
266.93		8" SPRUCE
266.93		10.
268.93		17.80
266.93	264.89	22" BIRCH
287.96		
287.96		5" BALSAM
287.95		7.15
287.96	287.76	15.59
		13" BIRCH
204.81		12" MAPLE
204.81		30
204.81		8.80
209.81	202.04	15.5
		22" BIRCH

2-25-83

50

TSBN R26W Sec 22 Subdivision

Exterior traverse cont'd from pg 49

STA	1 st H&D	2 nd H&R	3 rd H&D	4 th H&R	22 nd D/R
	H&D			R&D	

150-09-16 330-09-09 150-09-13 330-09-06 271-33-00

00-00-³⁴25 180-00-17 00-00-29 180-00-23 88-27-48

55 150-08-42 150-08-47 150-08-44 150-08-43 88-27-24

150-08-44 ✓

267-13-14 87-13-15 267-13-13 87-13-⁰⁵0400-00-26 180-00-25 00-00-29 180-00-²³26| 56 267-12-48 267-12-50 267-12-44 267-12-⁴²46267-12-⁴⁶45 ✓

VOK Ch. 02-28-83

50

(FT)
S. Dist(FT)
H. Dist

265.45

265.45

265.45

265.45 ✓

265.35 ✓

2" MAPLE

6.0

4.33

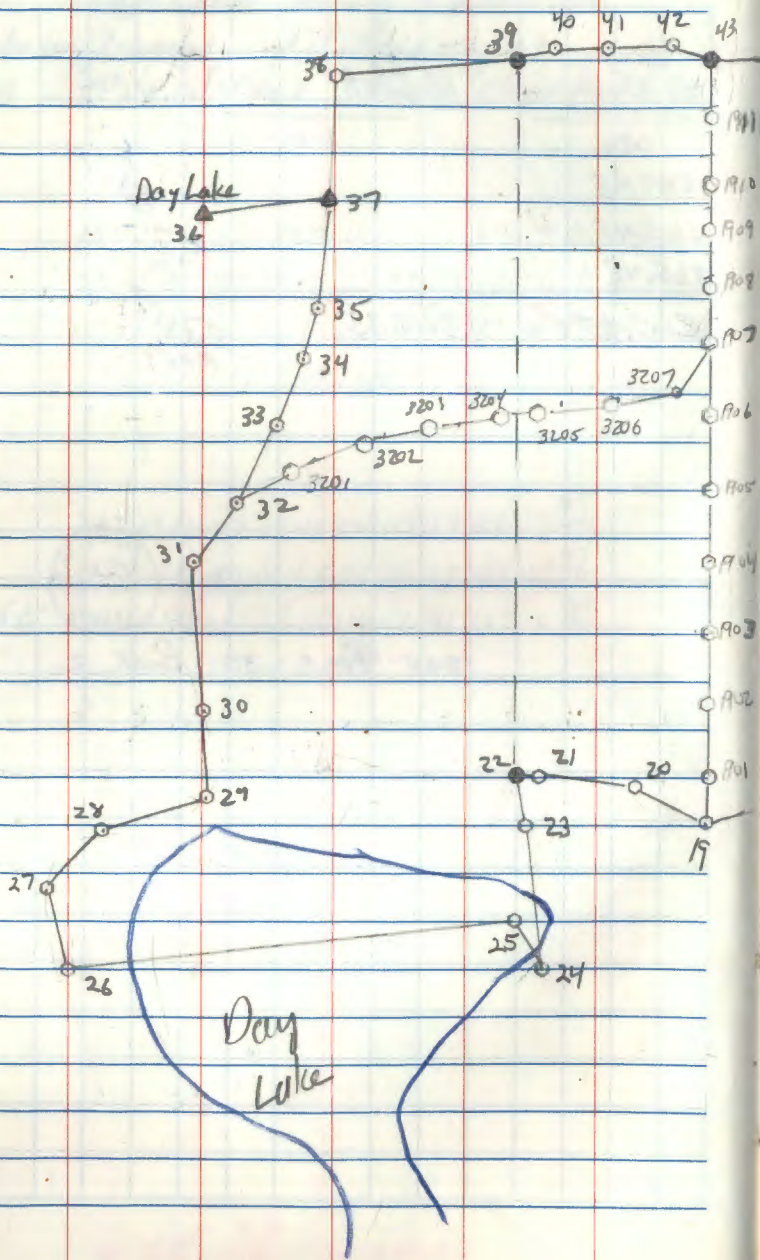
8.13

12" MAPLE

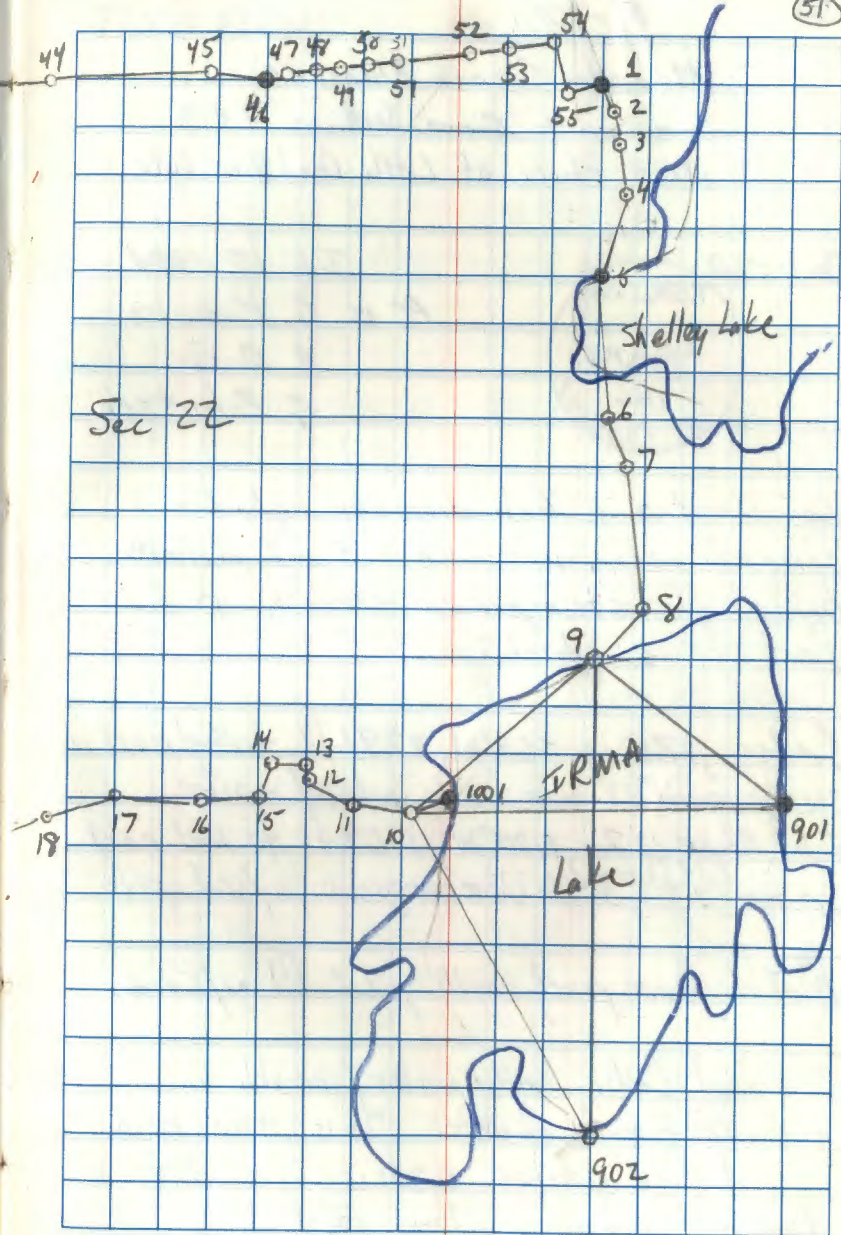
TSBN R26W
15114
2220
12684

SEE PAGE 30 Book 2

51



51

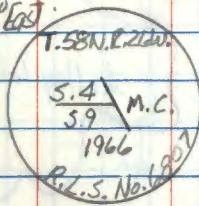


E-10/11

Meander Corner Number

Common to ~~Corner~~ Sections 4 & 9

West shore of Little Dead Horse Lake

Decl = 5° East 

July 17, 1984

PC to G. Kosenko

B. Husk

G. Robertson

Recovered a 6 inch diameter cylindrical concrete monument with a 3 inch diameter brass tablet stamped as shown, up 3.2 feet from which:

Cedar, 17.5 in, 563°W , 27.91 ft to 16d nail in SW face, second "BT" blaze visible, w/6d spike

Sugar Maple, 12.7 in, $N70^{\circ} \text{W}$, 15.69 ft to 16d nail in north face, double blaze overgrown, w/6d spike

Metal fence post, north, 2.2 ft w/54-4

Original Cedar, under water, unable to measure because of water. This tree base is at the proper bearing and distance. Did not paint anything red.

T58N R26W

See BK 1, PP 57

(53)

T58N R26W Sec 22 subdivision

Spur trav to possible BT on Kremer Lake

STA 1st H&D 2nd H&D 3rd H&D 4th H&D 5. Dist ^(F1)

H&D

See Page 37/38

Dist 26 to 27 90-26-07 269-34-25 90-25-51 766.25

FS 2701 171-09-53 351-09-51 171-09-54 351-09-56

BS 27 00-00-22 180-00-16 00-00-25 180-00-23

π@ 26 171-09-31 171-09-35 171-09-29 171-09-33

171-09-32

Z 27 to 26

91-40-26 269-34-25

Dist Z 27 to 2701 91-40-53 268-19-14 765.25

Dist 2701 to 27 88-22-21 271-38-00 88-22-11 765.26

FS 2702 158-55-03 338-54-59 158-55-¹¹70 338-55-09BS 26 00-00-29 180-00-22 00-00-³¹24 180-00-24

π@ 2701 158-54-34 158-54-37 158-54-40 158-54-45

158-54-39

Dist 2701 to 2702 89-51-08 270-09-18 89-50-55 1057.01

Dist 2702 to 2701 90-¹⁰09 269-49-12 90-10-25 1057.03

✓ OK Gr. 03-26-83

March 25, 1983

(53)

(FA)
H. Dist

T2 S/N 265189

Red-1 S/N 4863

766.23

Partly cldy, cold, calm ^{Windy}

PC by G. Kasenko

ATTN G. Robertson

Aide - B. Ausk

STA 26 = bed spike

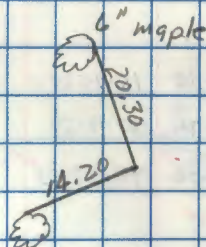
BPR = 29.5

Temp = 12° F

ECF = -2

764.92

764.95



1057.01 3" Aspen

1057.03

STA 2701 = bed spike

(54)

TSBN R26W Sec 22 Sub

Spvr Traverse to Possible BT on Kremer Lake

Sta 1st H&O 2nd H&R 3rd H&O 4th H&R S. Dist. ^(Spec 1)

H4

FS 2703 180-12-2⁴⁶ 180-12-25 180-12-38 180-12-33BS 2701 00-00-4²⁵ 179-59-58 00-00-1¹⁰ 180-00-00T@ 2702 180-12-7²¹ 180-12-27 180-12-28 180-12-33

180-12-27

Dist 2702 to 2703 92-33-19 267-28-05 92-32-37 497.24

Dist 2703 to 2702 87-31-52 272-28-31 87-31-41 497.21

FS 2704 194-57-56 15-24-19 195-24-30 15-15-35

BS 2702 00-00-47 180-27-17 00-27-24 180-18-30

T@ 2703 194-57-0¹⁹⁴⁻⁵⁷⁻⁰⁴ 194-57-02 194-57-06 194-57-05

194-57-06

Dist 2703 to 2704 90-08-40 269-51-34 90-08-33 1809.24

Dist 2704 to 2703 89-53-07 270-07-32 89-52-48 1809.20

✓ OK Pl. 03-26-83

March 25, 1983

(55)

(FF)
H. Dist

6" Basswood

29.55

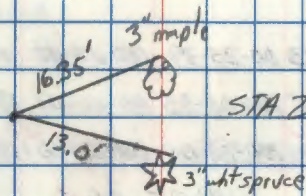
18.35

2" Aspen

496.75

496.75

STA 2702 = 60d spike



STA 2703 = 60d spike

1809.23

1809.20

(53)

T58N R26W Sec 22 Sub

Spur trav to possible BT on Kramer Lake

STA 1st H & D 2nd H & R 3rd H & D 4th H & R 5. Dist ^(A)

H &

FS 2705 187-27-38 07-27-32 187-27-37 07-27-30

BS 2703 00-00-43 180-00-42 00-00-45 180-00-41

T@2704 187-26-55 187-26-50 187-26-52 187-26-47

187-26-52 ✓

Dist 2704 to 2705 91-40-50 268-19-24 91-40-43 508.89 ✓

Dist 2705 to 2704 88-23-57 271-36-31 88-23-43 508.88 ✓

FS 2706 180-25-53 00-25-39 180-25-42 00-25-42

BS 2704 00-00-45 180-00-35 00-00-41 180-00-32

T@2705 180-25-08 180-25-04 180-25-01 180-25-10

180-25-06 ✓

Dist 2705 to 2706 92-11-05 267-49-19 92-10-53 631.90 ✓

Dist 2706 to 2705 87-52-41 272-07-46 87-52-28 631.85 ✓

✓ OK for 03-26-83

March 25, 1983

(55)

(FA)
H. Dist

5" Aspen

24.90

24.00

508.67 W 8" Aspen

508.68 ✓

STA 2704 = 60d spike

7" Birch

14.91

12.58

631.44 8" Birch

631.42 ✓

STA 2705 = 60d spike

T.58N R26W Sec 22 Sub.

Spur Traverse to Possible BT on Kremor Lake
 STA 1st Hx D 2nd Hx R 3rd Hx D 4th Hx R S. Dist (FT)
 Hx

FS 2707 150-51-13 330-50-54 151-03-00 331-~~02-35~~⁰⁹⁻⁵⁰
 BS 2706 00-00-50 180-00-38 00-12-42 180-~~02-29~~¹⁹⁻²⁴
 T@ 2706 150-50-23 150-50-~~26~~²⁶ 150-50-18 150-~~50-16~~²⁶
 150-50-21 ✓

Dist 2706 to 2707 88-00-38 272-00-01 88-00-19 351.32 ✓
 Dist 2707 to 2706 92-06-23 267-58-09 92-06-17 351.33 ✓

FS 2708 167-02-56 347-02-43 167-02-~~45~~⁴⁵ 347-02-28
 BS 2706 00-00-55 180-00-41 00-00-~~34~~³⁴ 180-00-25
 T@ 2707 167-02-01 167-02-02 167-02-~~09~~⁰⁹ 167-02-03 ✓
 167-02-04 ✓

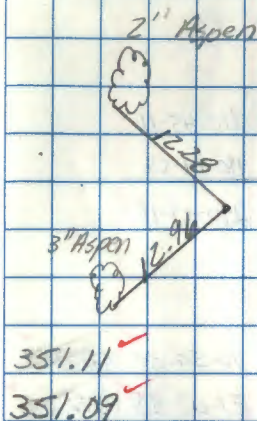
Dist 2707 to 2708 91-17-39 268-42-28 91-17-36 856.44 ✓
 Dist 2708 to 2707 88-45-32 270-15-01 89-45-16 856.40 ✓

✓ OK br. 03-26-83

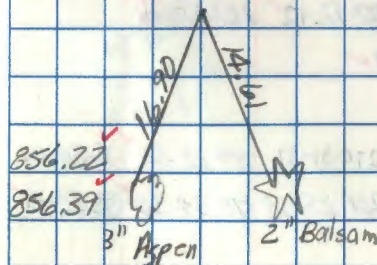
March 25, 1983

56

(FT)
 H. Dist



STA 2706 = 60d spike
 BPR = 29.6
 Temp = 35°F
 ELF = -1



STA 2707 = 60d spike

March 25, 1983

T58N R26W Sec 22 Sub

Spur traverse to Possible BT on Kremer Lake

STA 1st H&D 2nd H&R 3rd H&D 4th H&R 5. Dist
H &

FS 2709 290-43-35 110-45-10 290-45-15 110-45-11
BS 2707 00-50-17 180-01-52 00-02-02 180-01-53
T@ 2708 290-43-18 290-43-19 290-43-13 290-43-18
290-43-17

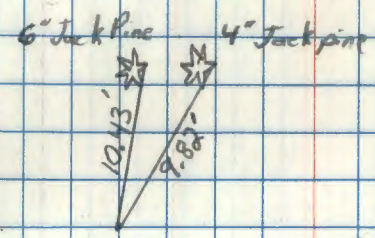
Dist 2708 to 2709 90-54-51 267-05-43 90-54-34 1063.01
Dist 2709 to 2708 89-07-41 270-52-32 89-07-35 1063.00

FS 2710 267-47-50 87-47-37 267-47-41 87-47-30
BS 2708 00-00-42 180-00-27 00-00-27 180-00-24
T@ 2709 267-47-08 267-47-10 267-47-12 267-47-14
267-47-09

Dist 2709 to 2710 89-28-41 270-31-37 89-28-32 689.46
Dist 2710 to 2709 90-34-49 270-25-33 90-34-38 689.42

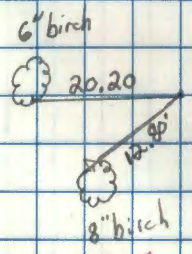
✓ OK Kk. 03-26-83

(F)
H. Dist



STA 2708 = 60d spike

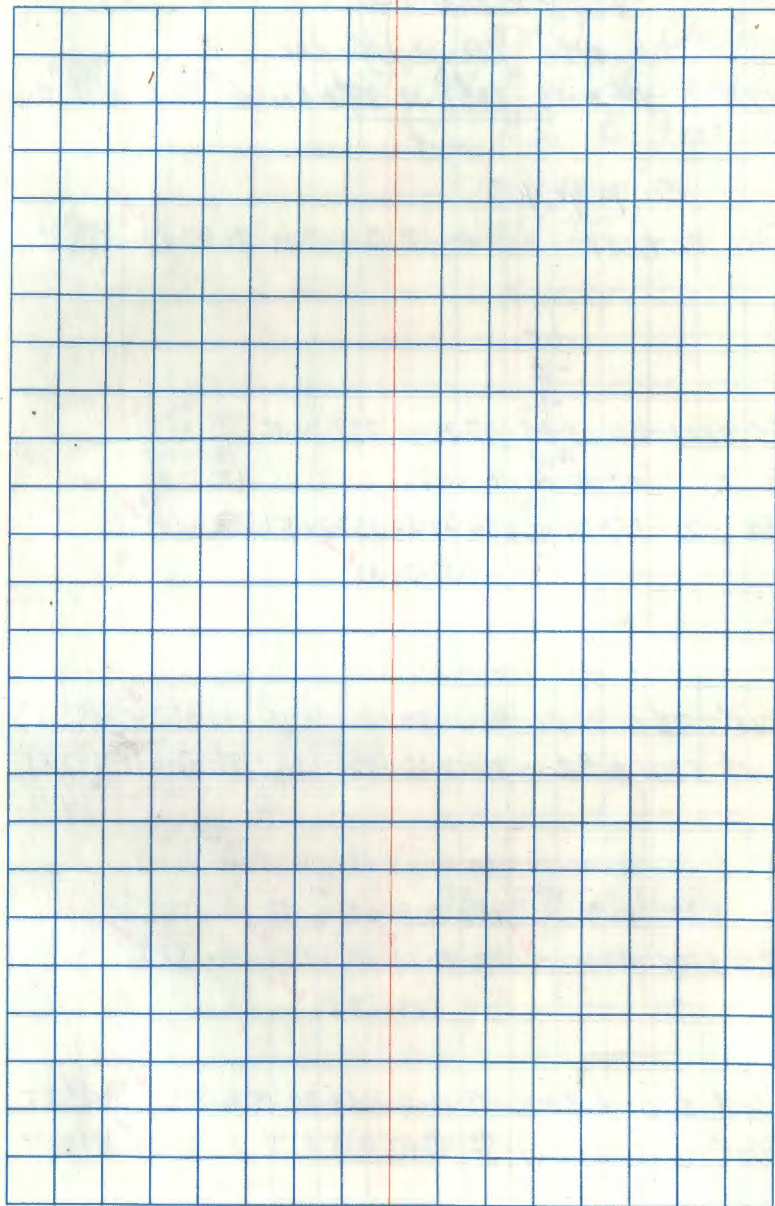
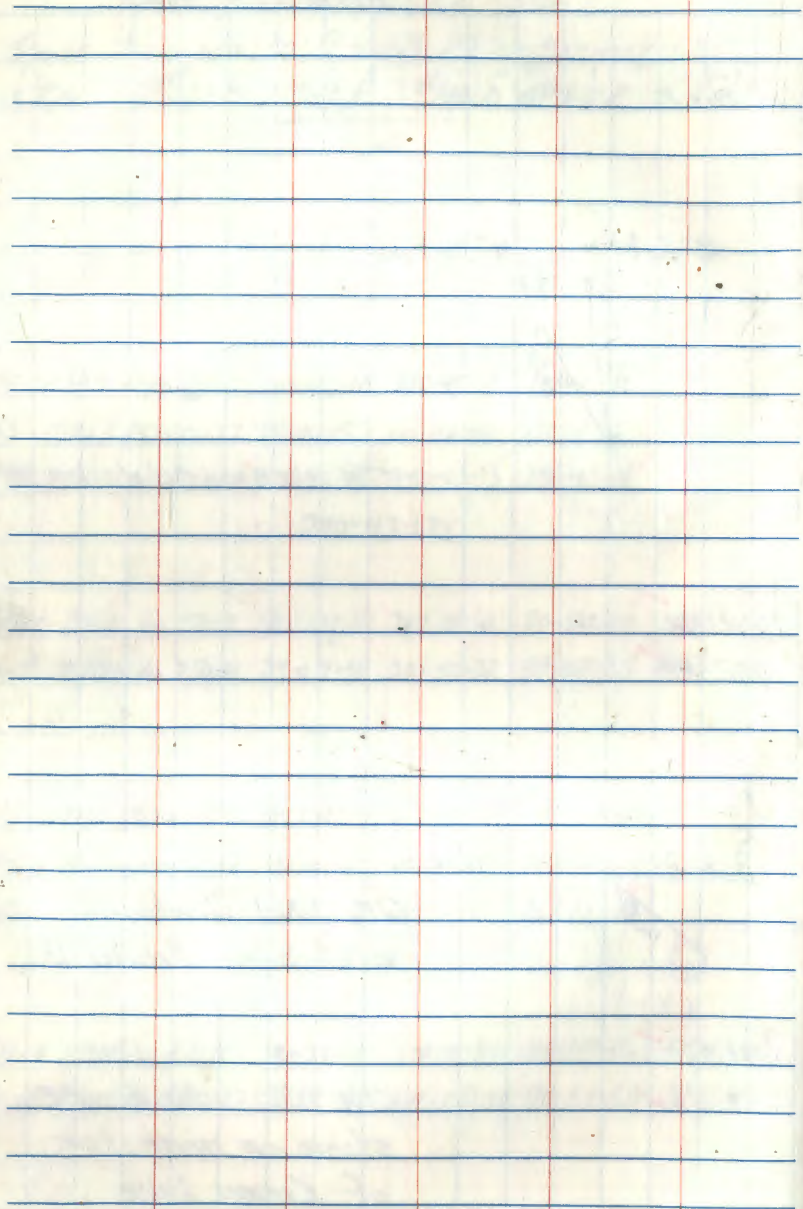
1062.88
1062.88



STA 2709 = 60d spike
west shore Kremer Lk.

689.43
689.39

STA 2710 = possible BT
stamp on north shore
of Kremer Lake



1607.68

TSBN R26W Sec 22, Sub

Spur traverse to W 1/4 sec 22
 STA 1st H & D 2nd H & D 3rd H & D 4th H & P 5. Dist (ET)

H &

See page 40

Dist 32 to 31 91-40-52 268-19-19 91-40-47 350.88

-05

-14

-24

FS 3201 252-25-29 72-25-14 252-04-16 72-03-55

BS 31 00-00-23 180-00-24 359-39-19 180-00-21

T@ 32 252-24-46 252-24-50 252-24-57 252-24-36

252-24-52

Dist 32 to 3201 90-21-53 269-38-45 90-21-34 492.62

Dist 3201 to 32 89-43-12 270-17-17 89-42-57 492.61

FS 3202 180-00-59 00-00-54 180-01-15 180-01-09

BS 32 00-00-59 180-00-56 00-00-18 180-01-15

T@ 3201 180-00-00 179-59-58 179-59-57 179-59-54

179-59-57

Dist 3201 to 3202 93-21-11 266-39-14 93-20-59 473.69

Dist 3202 to 3201 86-43-42 273-16-43 86-43-30 473.64

sta 3201
H & P

March 28, 1983

clear, calm, 50°

59

H. Dist

T & M G. Robertson
Party Chief G. Kosenko

Aid B. Ausk

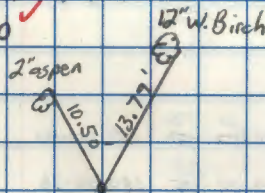
Instruments

Wild T2*

350.73

492.61

492.60



Sta 3201 = 60d spike

472.88

472.87

T58N R26W Sec. 22 Sub

Spr Travers to W^{1/4} Sec. 22

Sta. 1st H&D 2nd H&R 3rd H&D 4th H&R (feet)
H.A. Slope Dist.

~~3202-3203~~

Dist ~~3202-3203~~ 85-45-41 274-15-00 85-45-21 463.39

Dist ~~3202-3203~~ 94-19-51 265-40-34

FS 3203 180-00-⁵³~~27~~ 00-00-⁴⁵~~07~~ 180-11-35 00-11-21

BS 3201 00-00-³⁹~~27~~ 180-00-²⁸~~07~~ 00-11-15 180-11-04

TE 3202 180-00-¹⁴~~27~~ 180-00-¹⁷~~59~~ 180-00-20 180-00-17

180-00-17 ✓

Dist 3202-3203 85-45-41 274-15-00 85-45-21 ✓ 463.39

Dist 3203-3204 94-19-51 265-40-34 94-19-39 ✓ 463.45

FS 3204 180-00-53 00-00-43 180-~~11-35~~⁰⁰⁻⁵⁶ 00-00-48

BS 3202 00-00-23 180-00-19 180-00-~~15~~²² 180-00-26

TE 3203 180-00-30 180-00-24 180-00-~~15~~³⁴ 180-00-22

180-00-28

Dist. 3203 to 3204 91-07-44 265-~~25~~ 91-07-27 ✓ 142.85

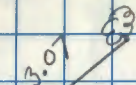
Dist. 3204 to 3203 89-08-16 270-52-56 89-07-40 ✓ 142.81

3203
H&R

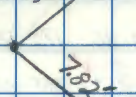
March 28, 1983

(ft)
H. Dist

2" R. Maple



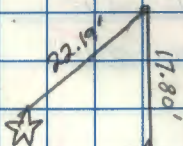
Sta 3202 = 60d spike



13" Balsam

462.12 ✓
462.13 ✓

Sta 3203 = 60d spike



2" Red Pine 1" Red Pine

142.82 ✓
142.79 ✓

T58N R26W Sec. 22 Sub.

Spur Traverse to W^{1/4} Sec 22

Sta 1st H4D 2nd H4R 3rd H4D 4th H4R S. Dist ^(P&I)

H4.

FS 3205 184-05-38 09-05-52 189-06-01 04-04-09

BS 3203 00-00-11 180-00-17 00-00-30 179-58-39

π@ 3204 184-05-27 184-05-35 184-~~05-31~~ 184-05-30

184-05-31 ✓

Dist 3204 to 3205 90-29-25 269-30-49 90-29-18 ✓ 283.94

Dist 3205 to 3204 89-32-44 270-27-31 89-32-37 ✓ 283.98

FS 3206 184-12-47 ¹⁶⁻³⁹ ~~04-12-24~~ 184-12-29 184-12-39 04-16-30

BS 3204 00-00-26 ^{04 04} 180-00-16 ~~04-12-24~~ 180-04-15

π@ 3205 184-12-21 184-12-25 184-12-14 184-12-15

184-12-15 ✓

Dist. 3205 to 3206 94-13-29 265-47-23 94-13-03 ✓ 669.54

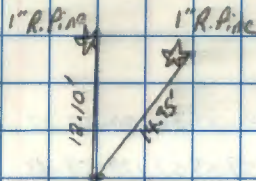
Dist. 3206 to 3205 85-50-28 274-10-02 85-50-13 ✓ 669.48

368/85
JBR

March 28, 1983

61

(P&I)
H. Dist

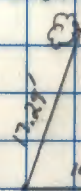


Sta 3204 = 60d spike

283.93 ✓

283.97 ✓

5" Basswood



4" S. Maple

10.23

Sta 3205 = 60d spike

667.73 ✓

667.42

667.71 ✓

T58N R26W Sec. 22 Sub.

Spur Traverse to W $\frac{1}{4}$ Sec. 22

Sta 1st H&D 2nd H&R 3rd H&D 4th H&D S. Dist. ⁽⁴¹⁾

H&R

FS 3207 180-28-10 00-27-26 180-27-36 00-27-27

BS 3205 00-00-27 179-59-50 359-59-57 179-59-43

T@3206 180-27-43 180-27-36 180-27-39 180-27-44

180-27-41

Dist. 3206 to 3207 93-40-02 266-20-22 93-39-50 317.84

Dist. 3207 to 3206

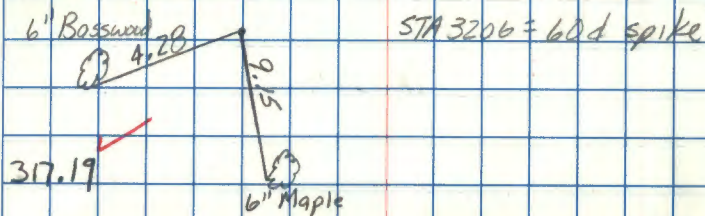
Go to Page 68

JAR 3/22/83

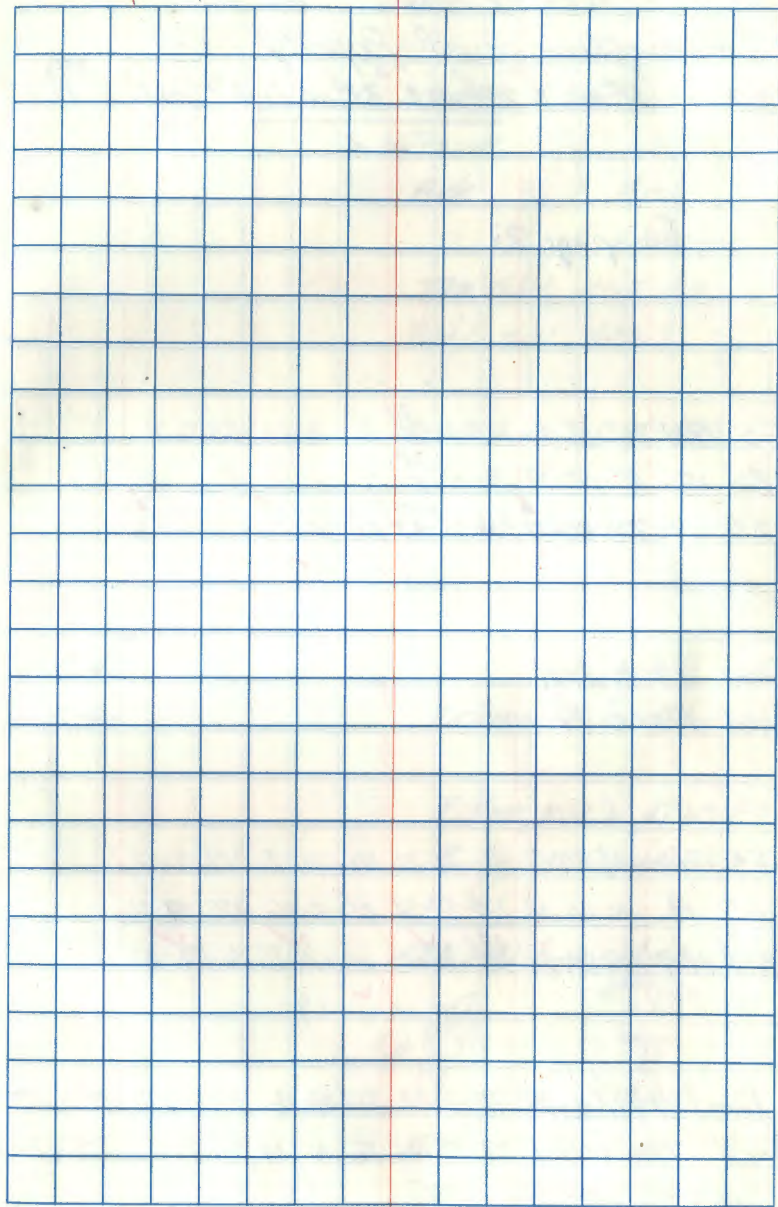
March 28, 1983

62

off
H. Dist



STA 3207 = 60d spike



T58N R26W Sec 22

Interior traverse of Property lines

STA 1st H&D 2nd H&D 3rd H&D 4th H&D S. DIST

H &

See page 33

FS 1901 308-36-14 128-36-30 308-36-35 128-36-34

BS 18 00-00-57 180-00-55 00-01-12 180-01-58

T@ 19 308-35-17 308-35-35 308-35-26 308-35-36

308-35-29

Dist 19 to 1901

Dist 1901 to 19

FS 1902 146-26-36 326-26-22 146-26-29 326-26-27

BS 19 00-00-04 179-59-54 00-00-06 179-59-56

T@ 1901 146-26-32 326-26-28 146-26-23 146-26-31

146-26-29

Dist 1901 to 1902 92-12-04 267-48-16 92-11-54 354.17

Dist 1902 to 1901 87-54-05 272-06-24 87-53-51 354.15

CIC WA 5-12-83

May 11, 1983

Ptly cldy, warm, calm

PC, PD, T, P G. Kosenko

Traine - J. Shafer

Arde - B. Ausk

- G. Robertson

T70 S/P 265/84

Ret 1 S/P 4863

Temp = 70°F. ECF = +1

RRR = 29.8

205.42

205.42

References for STA 1901

R. Maple, N02°W, 47.63 FT

R. Maple, N76°W, 65.41 FT

STA 1901 = position for

See B12
pg 77

Station
T58N R26W
W 1/4
S22
S27
1983
G.S. MC?

353.91

353.91

1901 is same as sta

8000 in computer run

5-19-83: B. Ausk & Greg Robertson set
2 in x 36 in Galv I.P. with Brass T-plet
up 10 ft stamped as shown

TSBN R26W

Interior traverse of Property Lines ^{Cont'd from pg 64}STA 1st H&D 2nd H&R 3rd H&D 4th H&R S. Dist

H &

ES 1923 180-00-10 00-00-05 180-00-13 00-00-06

BS 1901 00-00-02 179-59-54 00-00-09 179-59-59

T@ 1902 180-00-08 180-00-11 180-00-09 180-00-07

180-00-09

Dist 1902 to 1903 95-53-24 214-06-52 95-53-16 345.15

Dist 1903 to 1902 84-13-18 225-47-05 84-13-07 345.08

ES 1904 179-59-55 359-59-40 ¹⁷⁹⁻⁵⁹⁻⁵⁰ ~~180-00-06~~ 359-59-40

BS 1902 00-00-06 179-59-51 00-00-12 180-00-02

T@ 1903 179-59-49 179-59-49 179-59-38 179-59-38

179-59-44

Dist 1903 to 1904 89-13-18 270-47-19 89-12-55 345.38

Dist 1904 to 1903 ~~90-53-40~~ 180-00-08 90-53-33 345.38

90-53-40 869-06-34

CK-5-12-83 WA

May 11, 1983

STA 1902 = LOD spike

343.33

343.32

STA 1903 = LOD spike

345.35

345.34

T58N R26W

Traverse of interior property lines cont'd from pg 65

STA 1st H&D 2nd H&R 3rd H&D 4th H&R 5th Dist

H&R

	180-00-00	359-59-49		359-59-49
FS 1905	180-00-06	88-48-57	180-00-06	359-59-50
BS 1903	20-00-13	180-00-08	00-00-16	180-00-08
1904 π	179-59-47	179-59-41	179-59-50	179-59-37
		179-59-45		41

STA 1904 TO 1905	271-11-22	359-59-49	88-48-57	88-48-48	677.28
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STA 1905 TO 1904	91-14-25	268-45-48	91-14-19		677.29
------------------	----------	-----------	----------	--	--------

CK 5-12-83 WA

FS 1906	180-00-23	00-00-15	180-00-31	00-00-12
BS 1904	00-00-16	180-00-09	00-00-20	180-00-11
1905 π	07	06	11	01

STA 1905 TO 1906	271-49-06	89-11-09			503.16
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STA 1906 TO 1905	268-06-59	91-53-36			503.17
------------------	-----------	----------	--	--	--------

May 11, 1983

STA 1904 = 60d spike

677.13

677.13

STA 1905 = 60d spike

502.91

502.90

TSEN R26W

Traverse of interior property lines cont'd from p. 66

STA. 1st H&D 2nd H&R 3rd H&D 4th H&R S. Dist
H &

FS 1907	180-00-11	00-00-05	180-00-05	357-59-56	357-59-56
BS 1905	00-00-16	180-00-05	00-00-11	180-00-00	180-00-05
TA@1906	179-59-55	180-00-00	179-59-54	179-59-56	

Dist 1906 to 1907	267-17-53	92-42-32	92-42-19	439.48
Dist 1907 to 1906	272-35-34	87-23-04	87-22-55	439.47

FS 1909	180-00-18	00-00-03	179-59-50	180-00-10	00-00-05
BS 1906	00-00-21	180-00-07	357-59-56	00-00-05	06
TA@1907	59-57	179-59-56	179-59-56	00-00-05	52

Dist 1907 to 1908	181-45-26	278-14-53	228-14-14	242.12
Dist 1908 to 1907	98-24-04	261-36-17		242.22

Sta 1906 = 60d spike

May 12, 1983

Cloudy, humid, breeze

PC G. Kosenko

Aid - B. Avsk

G. Robertson

~~T-2~~ S/N 265189

Red HA S/N 4863

ECF = +1

STA 1907 = 60d spike

BPR = 27.5

Temp. = 65°F

239.62

68

T58N R26W

Closing angles to the traverse coming
from the W 1/4

STA	1 st HXD	2 nd HAR	3 rd HXD	4 th HAR	5. DIST (FT)
					H#

See Page 62

FS 3207	60-21-21	240-21-11	60-21-14	240-20-57	48
BS 1906	00-00-08	180-00-00	359-59-56	179-59-53	41
T@ 1907	13	11	21-18	21-09	07
		60-21-12			

Dist 1907 to 3207 283-35-42 76-24-43 113.80

Dist 3207 to 1907 256-05-09 103-55-10 113.96

FS 3206	211-43-06	31-42-56	180-00-13	211-43-23	31-42-58
---------	-----------	----------	----------------------	-----------	----------

BS 1907	00-00-27	180-00-10	00-00-08	31	180-00-13
---------	----------	-----------	----------	----	-----------

T@ 3207	4239	4246	4252	4245
---------	------	------	------	------

211-42-46

Dist 3207 to 3206 273-38-21 96-21-53 317.85

68

May 12, 1933

Cloudy, humid, breeze

P.M. T. to B. Kosonko

~~to~~ G. Robertson

Aid B. Ausk

T2 SN 265184

Red 1 SN 4863

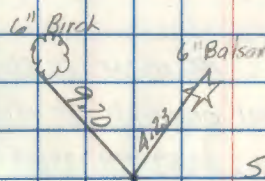
BPR 29.5 ECF = +1

Temp 65°F

STA 1907 = 60d spike
(compute inverse from
this sta)

110.61

110.61



STA 3207 = 60d spike

317.21

T58N R26W

Traverse of interior property lines cont'd from pg 67

STA 1st H&D 2nd H&R 3rd H&D 4th H&R 5. Dist

H&D

FS 1909 180-00-20 00-00-16 180-00-22 00-00-13

BS 1907 180-00-35 180-00-32 00-00-34 180-00-31

T@ 1908 45 44 48 42

180-00-45

Dist 1908 to 1909 93-26-19 266-34-02 417.33

Dist 1909 to 1908 86-39-21 273-21-00 417.34

FS 1910 180-00-07 ³⁵⁹⁻⁵⁹⁻⁵⁸₀₀ 180-00-04 00-00-01

BS 1908 00-00-23 180-00-11 00-00-20 180-00-12

T@ 1909 179-59-46 179-59-47 179-59-44 179-59-49

179-59-46

Dist 1909 to 1910 89-03-06 270-57-14 727.55

Dist 1910 to 1909 91-00-25 269-00-41 727.58

May 12, 1933

Sta 1908 = 60 d spike

416.58

416.60

Sta 1909 = 60 d spike

727.45

727.47

T58N R26W

Traverse of interior property lines cont'd from pg 69

STA 1st H&D 2nd H&D 3rd H&D 4th H&D 5. Dist

H &

ES 1911 180-00-47 00-00-²⁵36 180-00-45 00-00-36BS 1909 00-00-29 180-00-²¹26 00-00-22 180-00-18T@ 1910 180-00-19 180-00-15¹⁴05 180-00-23 180-00-⁻¹⁸28

180-00-18

Dist 1910 to 1911 83-46-26 276-13-44 381.75

Dist 1911 to 1910 96-19-44 263-40-40 381.83

43
ES ~~H&D~~ 179-59-28 359-59-20 179-59-31 359-59-20

BS 1910 00-00-28 180-00-26 00-00-26 180-00-24

T@ 1911 179-59-00 179-58-54 179-59-05 179-59-04

179-59-01

43
Dist 1911 to ~~1912~~ 89-45-28 270-14-53 870.81Dist ~~1912~~ to 1911 90-17-32 269-42-45 870.84

March 12, 1983

Sta 1910 = 60d spike

379.50

379.51

Sta 1911 = 60d spike

870.80

870.83

T58N R26W

Traverse of Interior Property lines Cont from pg. 70

Sta 1stH&D 2ndH&R 3rdH&D 4thH&R 5.0^(ft)ist

H&R

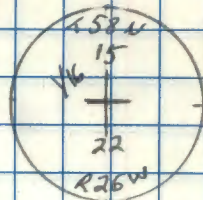
~~See page 81 This Book~~

FS 42 88-04-28 268-04-14 88-04-27 268-04-14

BS 191 00-00-28 180-00-17 00-00-25 180-00-20

T@ 43 88-04-00 88-03-57 88-04-02 88-03-54

March 12, 1983

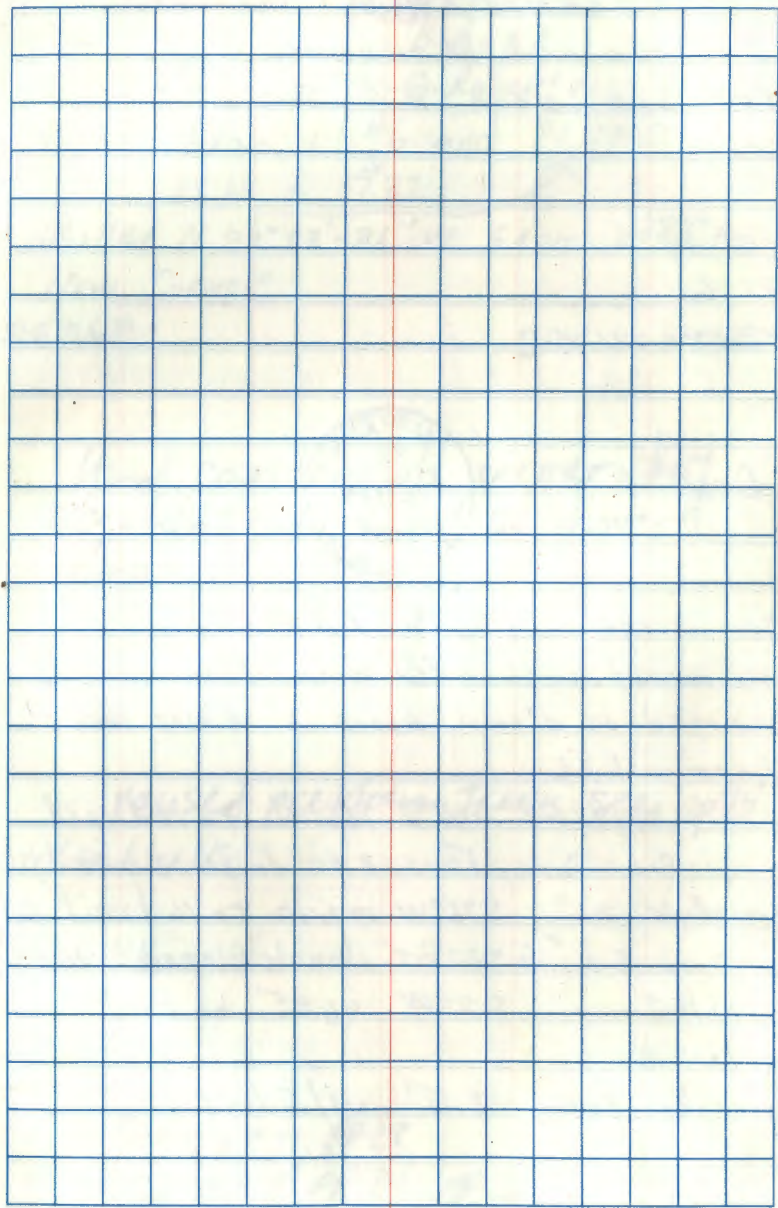


Sta 43 =

See This BK

pp 45

p 81



P-17

REFER to Pg 74

T58N R26W

IMMERSE AND Monumentation info to

SE 1/4 S1A 2000 E 1/4 SEC. 22

S1A

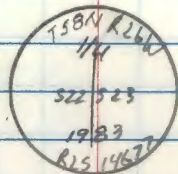
NEW
FS 1/4

BS 6

T@2000 261.45-13

43.68'

Decl 5°E



Set a 15ft Long by 48" Rod Aluminum
monument with a 3 1/4" diam. ALUMINUM CAP
STAMPED AS SHOWN ABOVE 6" ABOVE LOG,
FROM WHICH

SUGAR MAPLE 56" S41°E 133.14 to 16d NAIL
IN SOUTH FACE Scriber 1/4 S23 BT" double BLAZED

SUGAR MAPLE 71" S76°W 192.40 to 16d NAIL IN
SOUTH FACE SCR. 1/4 S22 BT" Double BLAZED W/60
METAL POST S2°W 46.85' to Post
W/54-3

Metal Post North 2.5' W/54-9

CERTIFICATE FILED 4-84

73

B. AUSK

G. ROBERTSON

Pulled from Pt #6 and Pt. 2000

43.68' or 17.32'

Pulled N 00°02'-36" W from 2000 to
NEW CORNER

43.68

Used cap from old corner but
couldn't get rod out so drove it
down.

reused previous trees see pp 74
w/60d spike
d. spike

See BK 2, PP 28

See BK 3, PP 74, PP 21

T58N R26W P-17

Inverse and Monumentation Info to

set STA 2000, E 1/4 SEC 22

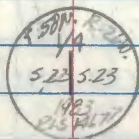
STA 1st H&D 2nd H&R 3rd H&D 4th H&R C.H. Dist
H 4

BS 2000 338-12-51 158-13-28 338-13-38 158-12-33

BS 7~~8~~ 00-00-07 130-00-24 00-10-34 130-00-29

TP@ 6 338-12-44 338-13-04 338-13-14 338-12-04 49.23

Decl = 5° E



Set a 15 ft long by 5/8 in diam aluminum
rod monument with 3/4 in diam aluminum
cap stamped as shown above, 6 in. above
flag line. From which:

Sugar Maple, 5.6 in, 556° E, 104.40 ft to 16 d nail

in South face, ser: "1453 BT" double blaze, w/ 16 d spike

Sugar Maple, 5.4 in, 538° E, 128.55 ft to 16 d nail

in SW face, ser: "1453 BT" double blaze, w/ 16 d spike

Sugar Maple, 7.1 in, West, 136.41 ft to 16 d nail

in South face, ser: "14522 BT" double blaze w/ 16 d spike

Metal sign post, 16 ft long, South, 3.0 ft

w/ a 54-9

No paint was used at this corner

May 25, 1983

Clear, mild breeze

PC to G. Kosanko

M.H. Dist

T, Arde - G. Robertson

Travis - D. Harmon

~~T~~

T/2 S/M 265184

49.25

REFER to Pg 73 this Book

It was necessary to move this
corner north 49.68 feet because
this last position was incorrectly
calculated.

5-14-84

Kenneth L. White

used this tree

this tree obliterated

used this tree

See Book 2, PP 28

See Book 3, PP 21, PP 73

T58N R26W

Angles @ property corners to property line,

STA 1st H&D 2nd H&R 3rd H&D 4th H&R

H&R

22 56-22-49

19 00-00-00

(8000)
1901 56-22-48

F5 1 181-17-29 01-17-20 181-17-22 01-16-51

B5 45 00-00-22 179-59-56 00-00-05 180-00-14

T@ 46 181-17-07 181-17-04 181-17-17 181-16-37

181-17-01

75

May 11, 1983

Pty City, mid

PE T 80 G. Kosenko

Traced - J. Shafer

Also - B. Ausk

- G. Robertson

STA = N 1/4 22-27
1901

STA 46 = N 1/4 Sec 22

958N R26W

INVERSE AND MONUMENTATION to set

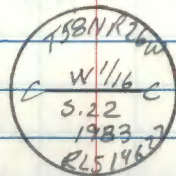
CW 1/16 S22

FS ^{NEW} CW 1/16

BS 1906

T @ 1907

DECL. 5°E



Set a 5' Long by 5/8 inch diam. Aluminum Rod with a 3/4 inch Aluminum CAP STAMPED AS shown from which:

W. PINE 13.8" S75°W 29.81 to 16d NAIL in NORTH FACE SCR. "CW 1/16 S22 BT" double BLAZED

R. MAPLE 8.3" N39°W 22.86 to 16d NAIL in EAST FACE SCR. "CW 1/16 S22 BT" double BLAZED

Metal Sign Post, North 2.0ft. w/54-2+54-9

Metal Sign Post, South 2.0ft. w/54-2

See pp 80 This Book

5-14-84

B. AUSK 'CRUNCH'

G. ROBERTSON

Pulled from 7000 AND 1907

10.9° ↗ 11.36 ↘

Pulled S 00° 43-48 E FROM 1907 to NEW CORNER

w/60d spike

w/60d spike

T58N R26W

5-19-83

Inverse and Monumentation info to set

sta 4000, S 1/4 sec 22,

STA 1st H&D 2nd H&R 3rd H&D 4th H&R C.H. Dist.

H&R

FS ⁴⁰⁰⁰ 16 14-46-20

BS 16 15 0-00-29

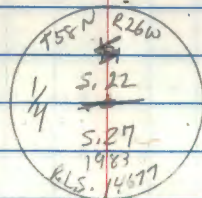
TO 4000 15 14-45-51

56.57

Lost Position

set a 2 inch X 24 inch galvanized iron pipe with a 3 inch brass tablet

Stamped:



Monument is set lost and flush with the ground

Single bladed & scribed "4527BT" on 7.0 inch Sugar Maple S65°W 12.17 ft to 60d spike vent in base blade

~~single bladed~~

BK 3 PP 33

SEE BOOK 2 Pg 46

CERTIFICATE FILED

Cloudy/Windy

Rain

5° EAST declination

K. Whitehorn

B. Ansk

S. Robertson

D. Harmon

Single bladed & scribed "4527BT"

4.0 inch Sugar Maple N01°W 13.69 ft to 60d spike vent in base of blade,

BT Tags attached - no red enamel
No fence post or monument signs

T58N R26W

Inverse and Monumentation Info to set

STA 5000 W 1/4 Sec 22

STA 1st H&D 2nd H&R 3rd H&D 4th H&R C.H. Dist.

H&R

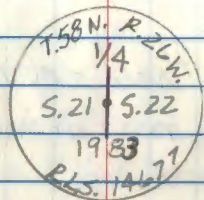
ES 5000 ²⁹355-52-26 175-52-26 355-52-26 175-51-53

BS 3205 ³¹00-00-28 180-00-24 00-00-35 180-00-26 37.35

T@ 3201 355-51-58 355-52-02 355-51-51 355-51-27

355-51-50

5° east decl



Set a 2 1/2 in O.D. aluminum ^{Pipe} ~~rod~~ by 3' long with a 3 in diameter ^{Aluminum} ~~brass~~ cap stamped as shown, up 7 inches from which:

Poplar, 2.9 in N20°E 44.62 ft to 16d in east

Maple, 2.8 in 570°E 18.00 ft to 16d in north

R. Pine, 3.5 in 578°W 46.68 ft to 16d in north

Metal fence post, north, 2.0 ft w/54-9

SEE Book 2 Pg. 47
BK 3 PP 61

June 7, 1983

Clear, calm, Mild

PC. as G. Kosenko

Asks B. Ausk

T. R. Robertson

TZ SP 265194

(H)
W.H. Dist

37.35

Tree, no blazes or scribbling, w/60d spike
Tree, no blazes or scribbling, w/60d spike
Tree, no blazes or scribbling, w/60d spike

G. Kasenko
TSBN R26W 6/7/83 G. Robertson

Inverse and Monumentation info to
set the MC on North shore Irma Lk.

STA 1st H&D 2nd H&R 3rd H&D 4th H&R
H&R

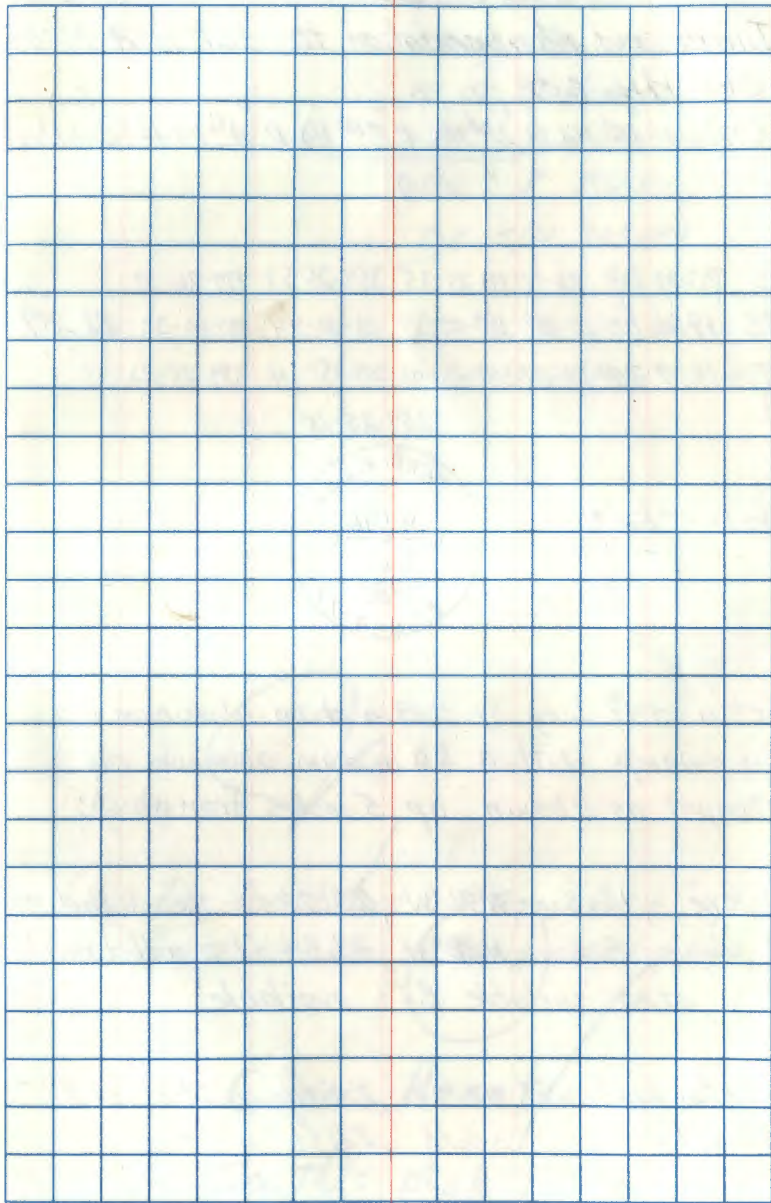
FS MC 133-52-36

BS 8 00-00-15 139.78

IT@ 9 133-52-21

MC falls out in the lake about 100'
from shore in about 10' of water. No
evidence of original survey found. No monument
set.

See Book 3, pp 17



T58N R26W

Inverse and Monumentation to set STA 7000,

CW. 1/16 COR

STA 1st H&D 2nd H&R 3rd H&D 4th H&R C.H. DIST. (F-1)

H &

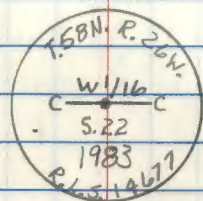
FS 7000 359-26-10 179-25-35 359-25-58 179-26-00

BS 1906 00-00-48 180-00-34 00-00-44 180-00-38 22.39

IT@ 1907 359-25-22 359-25-01 359-25-14 359-25-22

359-25-15

Decl = 5° East



Set a 5 ft long by 5/8 in diam. aluminum rod in swamp with a 3/4 in diam. aluminum cap stamped as shown, up 5 inches from which:

W. Pine, 13.8 in, N76°W, 23.70 ft to a 16d nail

P. Maple, 8.3 in, N28°W, 39.38 ft to a 16d nail

No other suitable BT's available

Metal sign post, north, 2.0 ft w/54-2, 54-9

Metal sign post, south, 2.0 ft w/54-2

June 7, 1983

Clear, calm, mild

PC, Dr. G. Kosenko

M.H. Dist

T. G. Robertson

And B. Ausk

T-2 S/N 265184

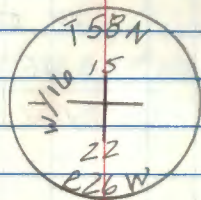
in north face, double blazed set "CW 1/16 522 BT" w/60ts pile
in east face, double blazed set "CW 1/16 532 BT" w/60d spike

Corner Reset

See This Book, PP 76

T58N P26W

W 1/16 15-22



Rail = 5° E

Recovered a 2 in. o.d. rusted iron pipe
w/a 3 in diam. aluminum cap stamped
as shown up 18 inches. There are
no records of how this monument got
here. It checks with our survey position
bearing and distances. No references recovered
Established:

Sugar Maple 8.3 in, N20° E, 16.93 ft to 16d nail in
E. Oak 10.1 in, S16° W, 17.61 ft to 16d nail in
S. Maple 6.3 in, N73° W, 18³² ft to 16d nail in

Metal fence post, ^{East}west, 5.0 ft w 54-2

Metal fence post, south, 3.0 ft w/ 542, 549

81

June 7, 1983

Clear, mild, calm

PC of G. Kosenko

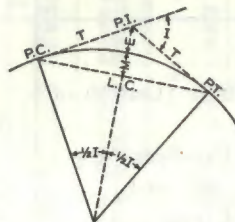
Artes - B. Ausk

G. Robertson

NW face, double blaze, sur: "W 1/16 S15 BT" w/ 16d spike
EAST face, double blaze, sur: "W 1/16 S22 BT" w/ 16d spike
NE face, double blaze, sur: "W 1/16 S15 BT" w/ 16d spike

CURVE AND REDUCTION TABLES

Published by Eugene Dietzgen Co.



CURVE FORMULAS

1. Radius : $R = \frac{50}{\sin D/2}$
2. Degree of Curve: $D = 100 \frac{I}{L}$. Also, $\sin D/2 = \frac{50}{R}$
3. Tangent : $T = R \tan \frac{1}{2} I$. Also, $T = \frac{T \text{ for } 1^\circ \text{ curve}}{D} + C$.
4. Length of Curve: $L = 100 \frac{I}{D}$
5. Long Chord : $L. C. = 2R \sin \frac{1}{2} I$
6. Middle Ordinate: $M = R (1 - \cos \frac{1}{2} I)$
7. External : $E = \frac{R}{\cos \frac{1}{2} I} - R$. Also, $E = T \tan \frac{1}{4} I$.

EXPLANATION AND USE OF TABLES

Given P.I. Sta. 83+40.7, $I = 45^\circ 20'$ and $D = 6^\circ 30'$ find:

Stations—P.C. = P.I. - T. $T = \frac{T \text{ for } 1^\circ \text{ Curve}}{D} + C$. From Tables V and VI

$T = \frac{2392.8}{6.5} + 197 = 368.32 + 197 = 565.32$. Sta. P. C. = 83+40.7 - (565.32) = 77+75.38.

P. T. = P. C. + L, and $L = 100 \frac{I}{D} = 100 \frac{45.33}{6.5} = 697.38$. Therefore, P. T. = (77+75.38) + (6+97.38) = 83+72.76.

Offsets—Tangent offsets vary (approximately) directly with D and with the square of the distance. From Table III Tangent Offset for 100 feet = 5.669 feet. Distance = 80 - Sta. P. C. = 27.62. Hence offset = $5.66 \times \left(\frac{27.62}{100}\right)^2 = .432$ ft. Also, square of any distance, divided by twice the radius equals (approximately) the distance from tangent to curve. Thus $(27.62)^2 \div (2 \times 881.95) = .432$ ft.

Deflections—Deflection angle = $\frac{1}{2} D$ for 100 ft., $\frac{1}{4} D$ for 50 ft., etc. For "X" ft. Deflection Angle (in minutes) = $.3 \times X \times D$. For Sta. 80 of above curve Deflection Angle = $.3 \times 27.62 \times 6.5 = 53.86'$. Also Deflection Angle = defl. for 1 ft. from Table III $\times X = 1.95 \times 27.62 = 53.86'$. For Sta. 181 Deflection Angle = $53.86' + \frac{6^\circ 30'}{2} = 4^\circ 8.86'$.

Externals—From Table V for 1° curve, with central angle of $45^\circ 20'$, $E = 479.6$. Therefore, for $6^\circ 30'$ curve, $E = \frac{479.6}{6.5} + \text{Correction from Table VI} = 7.378 + .039 = 7.417$.